

CHAPTER

52

DOORS



**777-200/300
FAULT ISOLATION MANUAL**

**CHAPTER 52
DOORS**

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
52-EFFECTIVE PAGES			52-FAULT CODE INDEX (cont)			52-FAULT CODE INDEX (cont)		
1 thru 4	SEP 05/2017		128	Sep 05/2015		164	Sep 05/2015	
52-HOW TO USE THE FIM			129	Sep 05/2015		165	Sep 05/2015	
1	Jan 05/2013		R 130	Sep 05/2017		166	Sep 05/2015	
2	Jan 05/2013		131	Sep 05/2015		167	Sep 05/2015	
3	Jan 05/2017		132	Sep 05/2015		168	BLANK	
4	Jan 05/2013		133	Sep 05/2015		52-MAINT MSG INDEX		
5	Jan 05/2013		134	Sep 05/2015		101	Sep 05/2015	
6	Jan 05/2013		R 135	Sep 05/2017		102	Sep 05/2015	
52-FAULT CODE INDEX			136	Sep 05/2015		R 103	Sep 05/2017	
101	Jan 05/2015		137	Sep 05/2015		R 104	Sep 05/2017	
102	May 05/2015		138	Sep 05/2015		R 105	Sep 05/2017	
103	May 05/2015		139	Sep 05/2015		R 106	Sep 05/2017	
R 104	Sep 05/2017		R 140	Sep 05/2017		R 107	Sep 05/2017	
R 105	Sep 05/2017		R 141	Sep 05/2017		R 108	Sep 05/2017	
R 106	Sep 05/2017		142	Sep 05/2015		109	May 05/2016	
R 107	Sep 05/2017		143	Sep 05/2015		110	BLANK	
R 108	Sep 05/2017		144	Sep 05/2015		52-09 TASKS		
R 109	Sep 05/2017		145	Sep 05/2015		201	Sep 05/2016	
R 110	Sep 05/2017		R 146	Sep 05/2017		202	BLANK	
111	Sep 05/2015		147	Sep 05/2015		52-11 TASKS		
112	Sep 05/2015		148	Sep 05/2015		201	May 05/2016	
113	Sep 05/2015		149	Sep 05/2015		202	May 05/2016	
114	Sep 05/2015		150	Sep 05/2015		203	May 05/2016	
R 115	Sep 05/2017		R 151	Sep 05/2017		204	May 05/2016	
116	Sep 05/2015		152	Sep 05/2015		205	May 05/2016	
117	Sep 05/2015		153	Sep 05/2015		206	May 05/2016	
118	Sep 05/2015		154	Sep 05/2015		207	May 05/2016	
119	Sep 05/2015		155	Sep 05/2015		R 208	Sep 05/2017	
120	Sep 05/2015		R 156	Sep 05/2017		O 209	Sep 05/2017	
121	Sep 05/2015		157	Sep 05/2015		O 210	Sep 05/2017	
122	Sep 05/2015		158	Sep 05/2015		O 211	Sep 05/2017	
123	Sep 05/2015		159	Sep 05/2015		R 212	Sep 05/2017	
124	Sep 05/2015		160	Sep 05/2015		R 213	Sep 05/2017	
R 125	Sep 05/2017		R 161	Sep 05/2017		R 214	Sep 05/2017	
126	Sep 05/2015		R 162	Sep 05/2017		R 215	Sep 05/2017	
127	Sep 05/2015		163	Sep 05/2015		R 216	Sep 05/2017	

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

52-EFFECTIVE PAGES



**777-200/300
FAULT ISOLATION MANUAL**

**CHAPTER 52
DOORS**

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
52-11 TASKS (cont)			52-11 TASKS (cont)			52-34 TASKS (cont)		
R 217	Sep 05/2017		A 253	Sep 05/2017		R 220	Sep 05/2017	
R 218	Sep 05/2017		A 254	Sep 05/2017		R 221	Sep 05/2017	
R 219	Sep 05/2017		A 255	Sep 05/2017		R 222	Sep 05/2017	
R 220	Sep 05/2017		A 256	Sep 05/2017		O 223	Sep 05/2017	
R 221	Sep 05/2017		A 257	Sep 05/2017		O 224	Sep 05/2017	
R 222	Sep 05/2017		A 258	Sep 05/2017		O 225	Sep 05/2017	
R 223	Sep 05/2017		A 259	Sep 05/2017		O 226	Sep 05/2017	
R 224	Sep 05/2017		A 260	Sep 05/2017		O 227	Sep 05/2017	
R 225	Sep 05/2017		A 261	Sep 05/2017		O 228	Sep 05/2017	
R 226	Sep 05/2017		A 262	Sep 05/2017		O 229	Sep 05/2017	
R 227	Sep 05/2017		A 263	Sep 05/2017		O 230	Sep 05/2017	
R 228	Sep 05/2017		A 264	Sep 05/2017		O 231	Sep 05/2017	
O 229	Sep 05/2017		A 265	Sep 05/2017		O 232	Sep 05/2017	
O 230	Sep 05/2017		A 266	Sep 05/2017		O 233	Sep 05/2017	
O 231	Sep 05/2017		A 267	Sep 05/2017		O 234	Sep 05/2017	
R 232	Sep 05/2017		A 268	Sep 05/2017		O 235	Sep 05/2017	
O 233	Sep 05/2017		52-34 TASKS			O 236	Sep 05/2017	
R 234	Sep 05/2017		R 201	Sep 05/2017		O 237	Sep 05/2017	
R 235	Sep 05/2017		R 202	Sep 05/2017		O 238	Sep 05/2017	
R 236	Sep 05/2017		R 203	Sep 05/2017		O 239	Sep 05/2017	
R 237	Sep 05/2017		R 204	Sep 05/2017		O 240	Sep 05/2017	
R 238	Sep 05/2017		R 205	Sep 05/2017		O 241	Sep 05/2017	
R 239	Sep 05/2017		R 206	Sep 05/2017		O 242	Sep 05/2017	
R 240	Sep 05/2017		R 207	Sep 05/2017		O 243	Sep 05/2017	
R 241	Sep 05/2017		R 208	Sep 05/2017		O 244	Sep 05/2017	
R 242	Sep 05/2017		R 209	Sep 05/2017		O 245	Sep 05/2017	
R 243	Sep 05/2017		R 210	Sep 05/2017		O 246	Sep 05/2017	
R 244	Sep 05/2017		R 211	Sep 05/2017		O 247	Sep 05/2017	
A 245	Sep 05/2017		R 212	Sep 05/2017		O 248	Sep 05/2017	
A 246	Sep 05/2017		R 213	Sep 05/2017		O 249	Sep 05/2017	
A 247	Sep 05/2017		R 214	Sep 05/2017		O 250	Sep 05/2017	
A 248	Sep 05/2017		R 215	Sep 05/2017		R 251	Sep 05/2017	
A 249	Sep 05/2017		R 216	Sep 05/2017		R 252	Sep 05/2017	
A 250	Sep 05/2017		R 217	Sep 05/2017		R 253	Sep 05/2017	
A 251	Sep 05/2017		O 218	Sep 05/2017		R 254	Sep 05/2017	
A 252	Sep 05/2017		O 219	Sep 05/2017		O 255	Sep 05/2017	

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

52-EFFECTIVE PAGES



**777-200/300
FAULT ISOLATION MANUAL**

**CHAPTER 52
DOORS**

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
52-34 TASKS (cont)			52-35 TASKS (cont)			52-35 TASKS (cont)		
R 256	Sep 05/2017		215	Sep 05/2016		251	Sep 05/2016	
R 257	Sep 05/2017		216	Sep 05/2016		252	Sep 05/2016	
R 258	Sep 05/2017		217	Sep 05/2016		253	Sep 05/2016	
R 259	Sep 05/2017		218	Sep 05/2016		254	Sep 05/2016	
R 260	Sep 05/2017		219	Sep 05/2016		255	Sep 05/2016	
R 261	Sep 05/2017		220	Sep 05/2016		256	Sep 05/2016	
R 262	Sep 05/2017		221	Jan 05/2013		257	Sep 05/2016	
R 263	Sep 05/2017		222	Sep 05/2016		258	Sep 05/2016	
R 264	Sep 05/2017		223	Sep 05/2016		259	Sep 05/2016	
R 265	Sep 05/2017		224	Sep 05/2016		260	Sep 05/2016	
R 266	Sep 05/2017		225	Sep 05/2016		261	Sep 05/2016	
R 267	Sep 05/2017		226	Sep 05/2016		262	Sep 05/2016	
R 268	Sep 05/2017		227	Sep 05/2016		263	Sep 05/2016	
R 269	Sep 05/2017		228	Sep 05/2016		264	Sep 05/2016	
R 270	Sep 05/2017		229	Sep 05/2016		265	Sep 05/2016	
O 271	Sep 05/2017		230	Sep 05/2016		266	Sep 05/2016	
O 272	Sep 05/2017		231	Sep 05/2016		267	Sep 05/2016	
O 273	Sep 05/2017		232	Sep 05/2016		268	Sep 05/2016	
O 274	Sep 05/2017		233	Sep 05/2016		52-36 TASKS		
O 275	Sep 05/2017		234	Sep 05/2016		201	Jan 05/2013	
O 276	Sep 05/2017		235	Sep 05/2016		202	Jan 05/2013	
52-35 TASKS			236	Sep 05/2016		203	Jan 05/2013	
201	Jan 05/2013		237	Sep 05/2016		204	May 05/2017	
202	Sep 05/2016		238	Sep 05/2016		205	May 05/2017	
203	Sep 05/2016		239	Sep 05/2016		206	May 05/2017	
204	Sep 05/2016		240	Sep 05/2016		52-48 TASKS		
205	Sep 05/2016		241	Sep 05/2016		R 201	Sep 05/2017	
206	Sep 05/2016		242	Sep 05/2016		R 202	Sep 05/2017	
207	Sep 05/2016		243	Sep 05/2016		203	Jan 05/2016	
208	Sep 05/2016		244	Sep 05/2016		R 204	Sep 05/2017	
209	Sep 05/2016		245	Sep 05/2016		205	Sep 05/2016	
210	Sep 05/2016		246	Sep 05/2016		206	BLANK	
211	Sep 05/2016		247	Sep 05/2016		52-51 TASKS		
212	Sep 05/2016		248	Sep 05/2016		201	Jan 05/2013	
213	Sep 05/2016		249	Sep 05/2016		202	Jan 05/2013	
214	Sep 05/2016		250	Sep 05/2016		203	Jan 05/2013	

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

52-EFFECTIVE PAGES



777-200/300
FAULT ISOLATION MANUAL

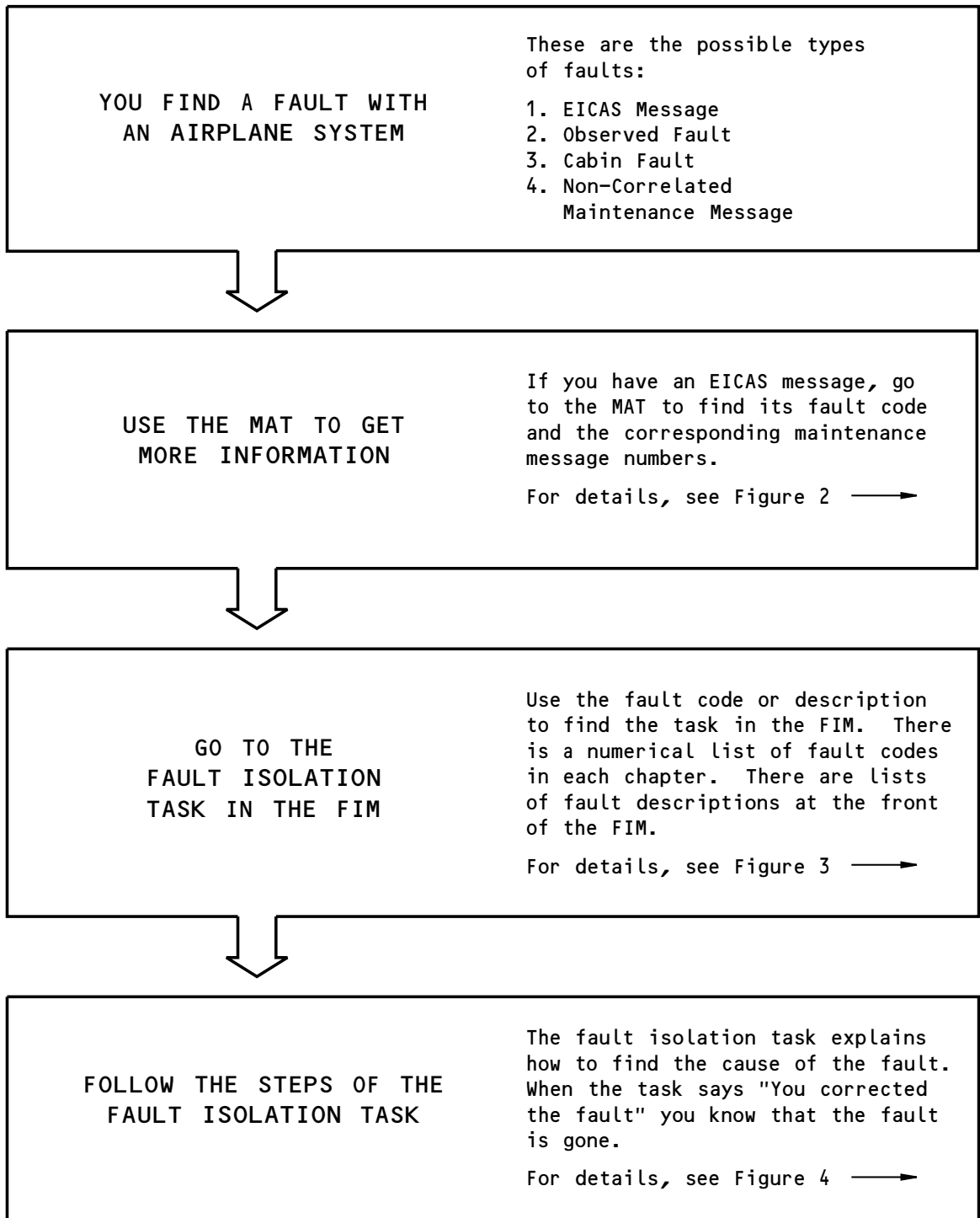
CHAPTER 52
DOORS

Subject/Page	Date	COC	Subject/Page	Date	COC	Subject/Page	Date	COC
52-51 TASKS (cont)								
204	Jan 05/2013							
205	Jan 05/2013							
206	Jan 05/2013							
207	Jan 05/2013							
208	Jan 05/2013							
209	Jan 05/2013							
210	Jan 05/2013							
211	Jan 05/2013							
212	Jan 05/2014							
213	Jan 05/2013							
214	BLANK							
52-98 TASKS								
201	Jan 05/2013							
202	BLANK							

A = Added, R = Revised, D = Deleted, O = Overflow, C = Customer Originated Change

52-EFFECTIVE PAGES

777-200/300
FAULT ISOLATION MANUAL



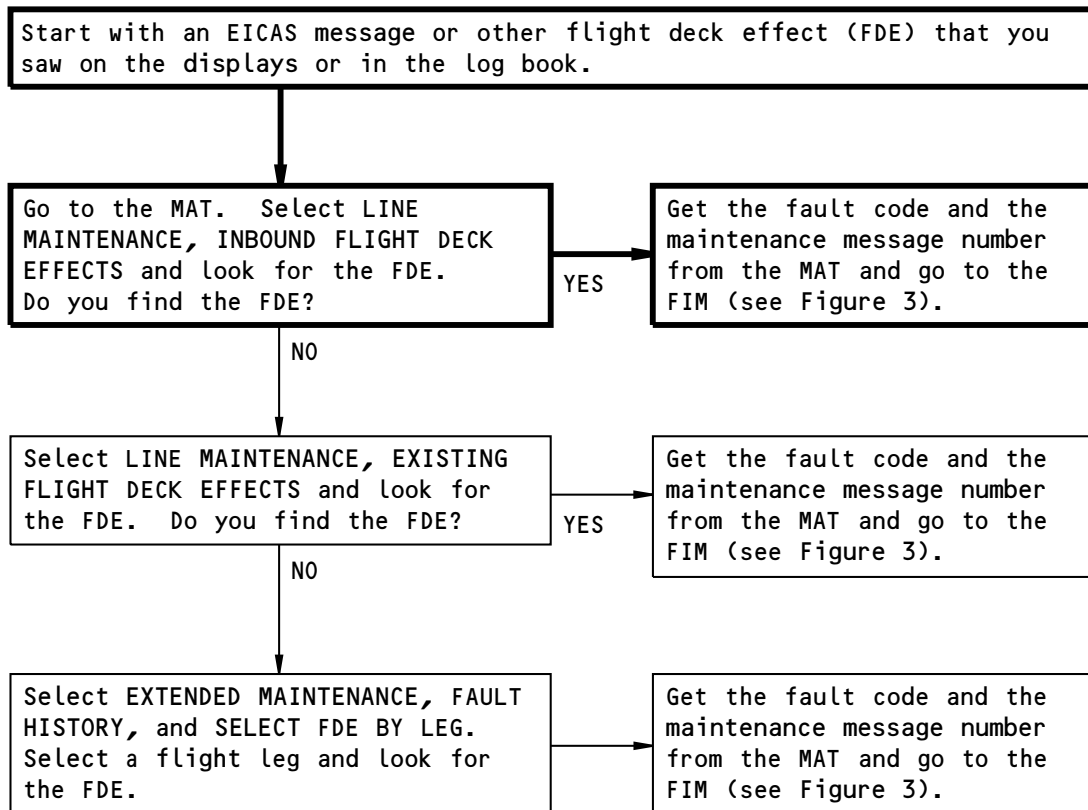
E84424 S0000132469_V1

Basic Fault Isolation Process
Figure 1

EFFECTIVITY
ARO ALL

52-HOW TO USE THE FIM

D633W103-ARO



NOTE: The bold lines show the most common path.

E84425 S0000132475_V1

**Getting Fault Information from the MAT
Figure 2**

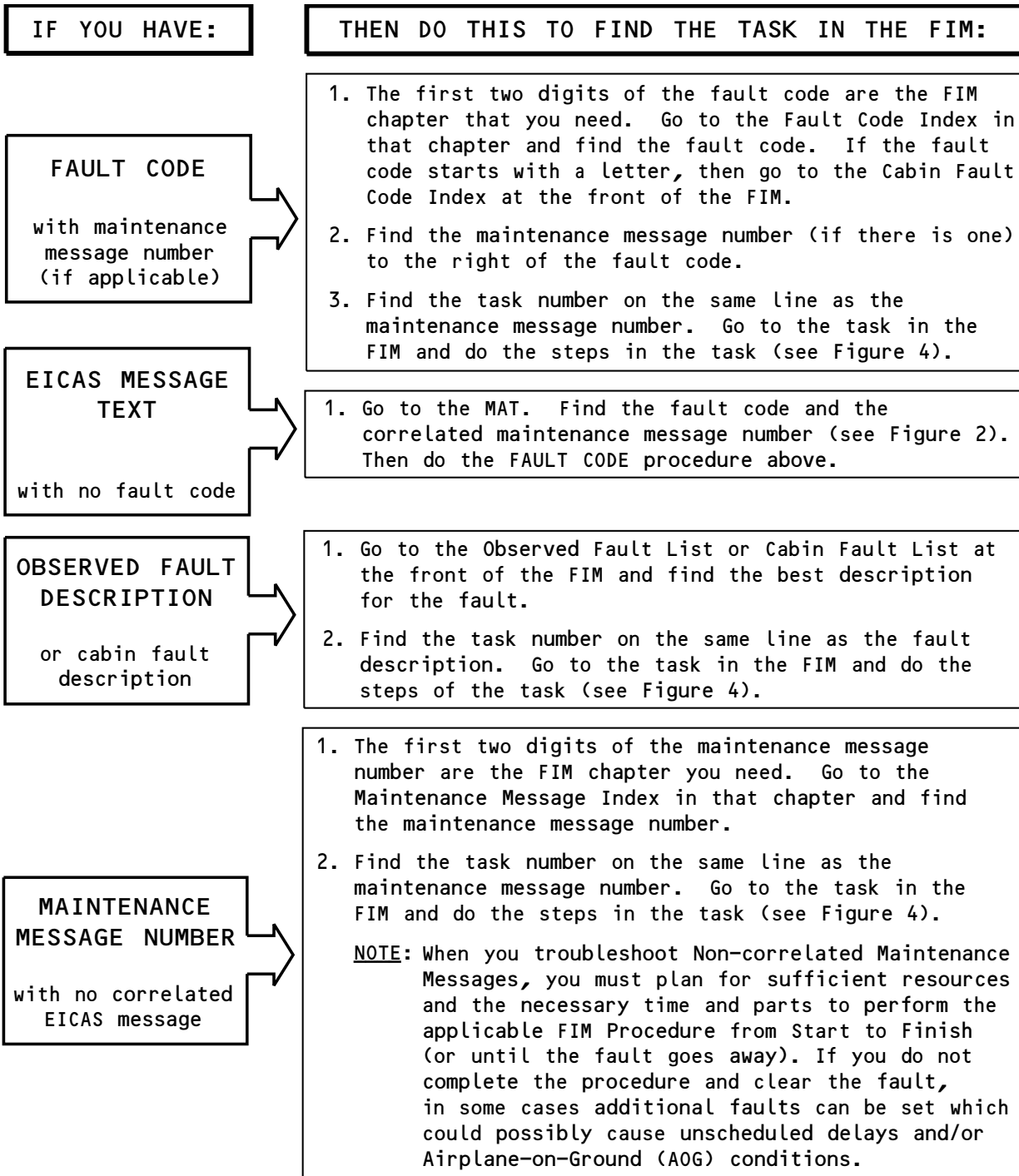
EFFECTIVITY
ARO ALL

52-HOW TO USE THE FIM

D633W103-ARO

Page 2
Jan 05/2013

**777-200/300
FAULT ISOLATION MANUAL**



E84427 S0000132476_V2

**Finding the Fault Isolation Task in the FIM
Figure 3**

EFFECTIVITY
ARO ALL

52-HOW TO USE THE FIM



777-200/300 FAULT ISOLATION MANUAL

ASSUMED CONDITIONS AT START OF TASK

- External electrical power is ON
- Hydraulic power and pneumatic power are OFF
- Engines are shut down
- No equipment in the system is deactivated

INITIAL EVALUATION PARAGRAPH

- The Initial Evaluation paragraph at the start of the task helps you determine whether you can detect the fault right now.
- If you cannot detect the fault right now, then the task cannot isolate the fault and the Initial Evaluation paragraph will say that there was an intermittent fault.
- If you have an intermittent fault, you must use your judgement (and follow your airline's policy) to decide which components to replace. Then monitor the airplane to see if the fault happens again on subsequent flights.

FAULT ISOLATION STEPS

- The FIM task steps are presented in a specified order. "The If... then" statements will guide you along a logical path. But if you do not plan to follow the FIM task exactly, make sure that you read it before you start to isolate the fault. Some FIM procedures start with important steps that have an effect on the other steps in the procedure.
- When you are at the endpoint of the path, the step says "You corrected the fault." Complete the step and exit the procedure.
- The Recommended Maintenance Action that shows on the MAT for the maintenance message gives a list of possible causes in order by probability of failure. In the FIM procedure, the possible causes can be in a different order from the MAT.

WIRING CHECKS

When a step says "Do a wiring check", do these three types of electrical checks for the specified contacts (pins):

- continuity from contact to contact
- shorts between the contacts
- shorts from each contact to ground

E84428 S0000132477_V3

Doing the Fault Isolation Task Figure 4

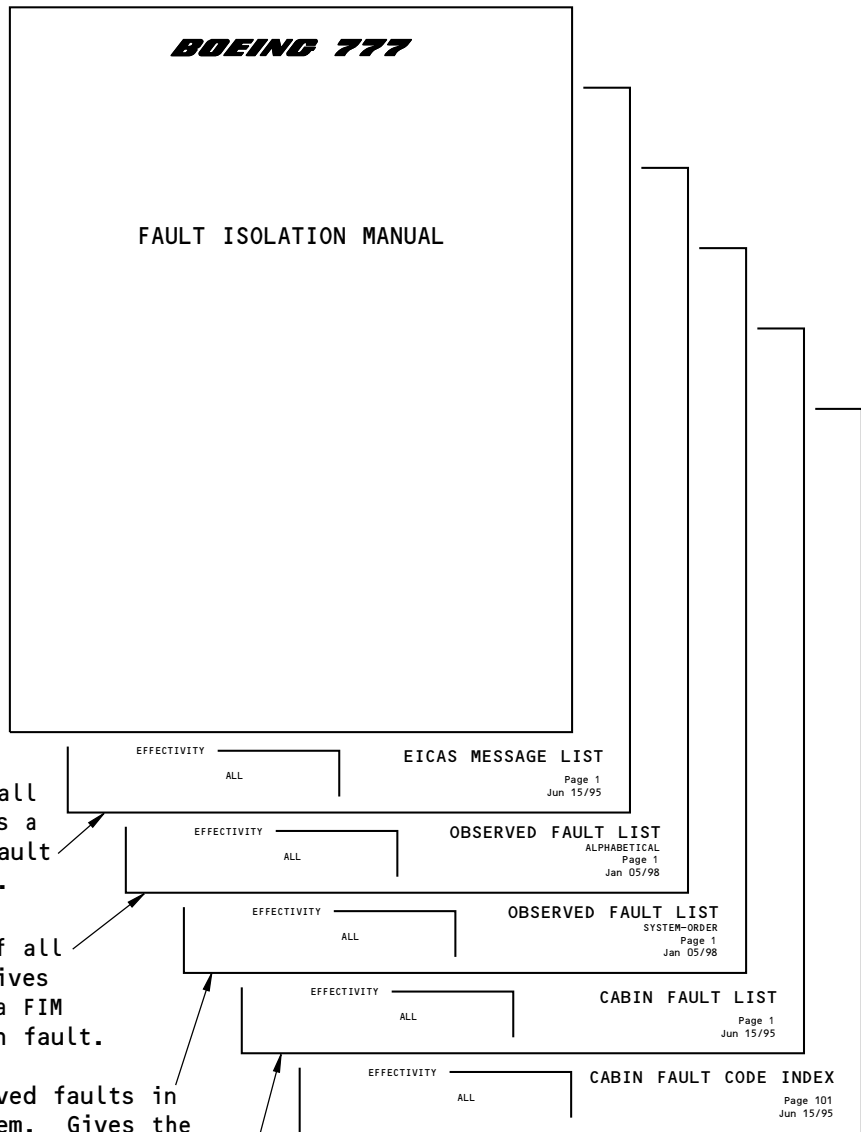
EFFECTIVITY
ARO ALL

52-HOW TO USE THE FIM

D633W103-ARO

Page 4
Jan 05/2013

777-200/300
FAULT ISOLATION MANUAL



Alphabetical list of all EICAS messages. Gives a description and the fault code for each message.

Alphabetical list of all observed faults. Gives the fault code and a FIM task number for each fault.

List of all observed faults in order by ATA system. Gives the fault code and a FIM task number for each fault.

List of all cabin faults arranged in order by cabin function. Gives the fault code and a FIM task number for each fault.

Numerical list of all cabin faults in order by fault code. Gives a FIM task reference for each fault.

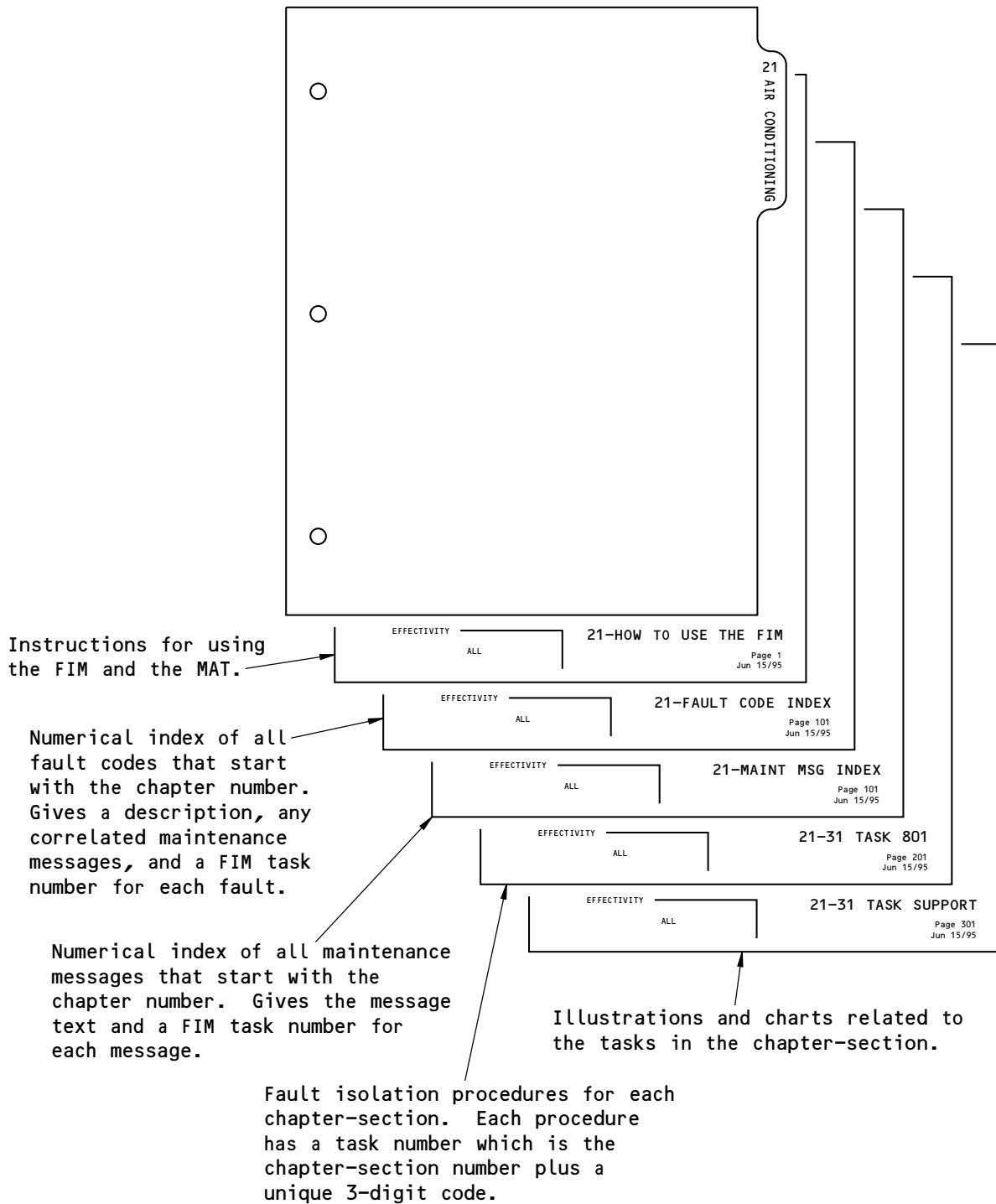
F39750 S0000132478_V1

**Subjects at Front of FIM
 Figure 5**

EFFECTIVITY _____
 ARO ALL

52-HOW TO USE THE FIM

**777-200/300
FAULT ISOLATION MANUAL**



F39837 S0000132479_V1

**Subjects in Each FIM Chapter
Figure 6**

EFFECTIVITY
ARO ALL

52-HOW TO USE THE FIM

D633W103-ARO

Page 6
Jan 05/2013



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
521 811 01	Passenger entry door: exterior handle difficult to operate - left No. 1.		52-11 TASK 811
521 811 02	Passenger entry door: exterior handle difficult to operate - left No. 2.		52-11 TASK 811
521 811 03	Passenger entry door: exterior handle difficult to operate - left No. 3.		52-11 TASK 811
521 811 04	Passenger entry door: exterior handle difficult to operate - left No. 4.		52-11 TASK 811
521 811 05	Passenger entry door: exterior handle difficult to operate - left No. 5.		52-11 TASK 811
521 811 11	Passenger entry door: exterior handle difficult to operate - right No. 1.		52-11 TASK 811
521 811 12	Passenger entry door: exterior handle difficult to operate - right No. 2.		52-11 TASK 811
521 811 13	Passenger entry door: exterior handle difficult to operate - right No. 3.		52-11 TASK 811
521 811 14	Passenger entry door: exterior handle difficult to operate - right No. 4.		52-11 TASK 811
521 811 15	Passenger entry door: exterior handle difficult to operate - right No. 5.		52-11 TASK 811
521 812 01	Passenger entry door: external handle turns but does not lock door - left No. 1.		52-11 TASK 840
521 812 02	Passenger entry door: external handle turns but does not lock door - left No. 2.		52-11 TASK 840
521 812 03	Passenger entry door: external handle turns but does not lock door - left No. 3.		52-11 TASK 840
521 812 04	Passenger entry door: external handle turns but does not lock door - left No. 4.		52-11 TASK 840
521 812 05	Passenger entry door: external handle turns but does not lock door - left No. 5.		52-11 TASK 840
521 812 11	Passenger entry door: external handle turns but does not lock door - right No. 1.		52-11 TASK 840
521 812 12	Passenger entry door: external handle turns but does not lock door - right No. 2.		52-11 TASK 840
521 812 13	Passenger entry door: external handle turns but does not lock door - right No. 3.		52-11 TASK 840
521 812 14	Passenger entry door: external handle turns but does not lock door - right No. 4.		52-11 TASK 840
521 812 15	Passenger entry door: external handle turns but does not lock door - right No. 5.		52-11 TASK 840

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 101
Jan 05/2015



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
523 811 44	Cargo door (large): does not unlatch and unhook electrically; manual unlatch and unhook OK - forward cargo compartment.		52-34 TASK 812
523 812 44	Cargo door (large): does not unlatch and unhook electrically or manually - forward cargo compartment.		52-34 TASK 813
523 813 44	Cargo door (large): does not hook and latch electrically; manual hook and latch OK - forward cargo compartment.		52-34 TASK 814
523 814 44	Cargo door (large): does not hook and latch electrically or manually - forward cargo compartment.		52-34 TASK 815
523 815 44	Cargo door (large): does not lift electrically; manual lift OK - forward cargo compartment.		52-34 TASK 810
523 816 44	Cargo door (large): does not lower electrically; manual lower OK - forward cargo compartment.		52-34 TASK 816
523 817 44	Cargo door (large): does not lift or lower electrically; manual lift and lower OK - forward cargo compartment.		52-34 TASK 817
523 818 44	Cargo door (large): does not lift or lower electrically or manually - forward cargo compartment.		52-34 TASK 818
523 820 44	Cargo door (large): does not open smoothly - forward cargo compartment.		52-34 TASK 819
523 821 44	Cargo door (large): does not unlock - forward cargo compartment.		52-34 TASK 820
523 822 44	Cargo door (large): does not lock - forward cargo compartment.		52-34 TASK 821
523 823 44	Cargo door (large): does not unlatch, unhook, hook and latch electrically; manual operation OK - forward cargo compartment.		52-34 TASK 822
523 825 44	Cargo door (large): does not unlatch or lift electrically; manual operation OK - forward cargo compartment.		52-34 TASK 824
523 826 44	Cargo door (large): does not lower or latch electrically; manual operation OK - forward cargo compartment.		52-34 TASK 825
523 841 00	Cargo door (small): does not unlatch electrically; manual unlatch OK - aft cargo compartment.		52-35 TASK 812
523 842 00	Cargo door (small): does not unlatch and latch electrically or manually - aft cargo compartment.		52-35 TASK 821

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 102
May 05/2015



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
523 843 00	Cargo door (small): does not latch electrically; manual latch OK - aft cargo compartment.		52-35 TASK 813
523 845 00	Cargo door (small): does not open electrically; manual open OK - aft cargo compartment.		52-35 TASK 814
523 846 00	Cargo door (small): does not close electrically; manual close OK - aft cargo compartment.		52-35 TASK 815
523 847 00	Cargo door (small): does not open and close electrically; manual open and close OK - aft cargo compartment.		52-35 TASK 817
523 848 00	Cargo door (small): does not open and close electrically or manually - aft cargo compartment.		52-35 TASK 822
523 853 00	Cargo door (small): does not unlatch and latch electrically; manual unlatch and latch OK - aft cargo compartment.		52-35 TASK 816
523 855 00	Cargo door (small): does not unlatch and open electrically; manual unlatch and open OK - aft cargo compartment.		52-35 TASK 818
523 856 00	Cargo door (small): does not close and latch electrically; manual close and latch OK - aft cargo compartment.		52-35 TASK 819
523 871 00	Cargo door (bulk): Unlatches but does not open.		52-36 TASK 802
523 872 00	Cargo door (bulk): Difficult to latch or unlatch.		52-36 TASK 803
525 611 00	Flight deck door: Difficult to open or close.		52-51 TASK 801
525 612 00	Flight deck door: does not release electrically.		52-51 TASK 802
525 613 00	Flight deck door: LKD - UNLKD light does not come on.		52-51 TASK 803
525 621 00	Flight deck door (enhanced security door): AUTO UNLK light does not come on with correct code in keypad.		52-51 TASK 810
525 622 00	Flight deck door (enhanced security door): chime does not sound with switch set to AUTO and correct code in keypad.		52-51 TASK 808
525 623 00	Flight deck door (enhanced security door): chime sounds with switch set to DENY.		52-51 TASK 807
525 624 00	Flight deck door (enhanced security door): does not lock with switch set to AUTO.		52-51 TASK 804
525 625 00	Flight deck door (enhanced security door): does not unlock with switch set to AUTO and correct code in keypad.		52-51 TASK 806

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 103
May 05/2015



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
525 626 00	Flight deck door (enhanced security door): does not unlock with switch set to UNLKD.		52-51 TASK 805
525 627 00	Flight deck door (enhanced security door): LOCK FAIL light is on.		52-51 TASK 809
525 628 00	Flight deck door (enhanced security door): unlocks with switch set to DENY.		52-51 TASK 807
525 629 00	Flight deck door (enhanced security door): deadbolt problem.		25-98 TASK 802
525 630 00	Flight deck door (enhanced security door): ceiling light (immediately aft of flight deck) does not go off when door opened in flight.		33-22 TASK 809
527 001 00	DOORS (EICAS ADVISORY)	32-71280 32-71282 52-11240 52-11270 52-11970 52-11980 52-12320 52-12330 52-12340 52-21240 52-21270 52-21970 52-21980 52-21990 52-22020 52-22030 52-22060 52-22070 52-22100 52-22110 52-22140 52-22150 52-22180 52-22190 52-22220	32-07 TASK 809 32-07 TASK 810 52-34 TASK 806 52-34 TASK 806 52-35 TASK 808 52-35 TASK 808 52-34 TASK 811 52-34 TASK 811 52-34 TASK 811 52-34 TASK 835 52-34 TASK 835 52-35 TASK 832 52-35 TASK 832 52-11 TASK 833 52-11 TASK 833 52-11 TASK 833 52-11 TASK 852 52-11 TASK 852 52-11 TASK 852 52-11 TASK 852 52-11 TASK 852 52-11 TASK 852 52-11 TASK 852 52-11 TASK 852

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 001 00	DOORS (EICAS ADVISORY)	(continued)	
		52-22230	52-11 TASK 852
		52-22260	52-11 TASK 852
		52-22270	52-11 TASK 850
		52-22300	52-11 TASK 852
		52-22302	52-11 TASK 853
		52-22308	52-11 TASK 853
		52-22312	52-11 TASK 853
		52-22318	52-11 TASK 853
		52-22320	52-34 TASK 839
		52-22330	52-34 TASK 839
52-22340	52-34 TASK 839		
527 011 41	DOOR ENTRY 1L (EICAS ADVISORY)	32-71282	32-07 TASK 810
		52-21740	52-11 TASK 831
		52-21750	52-11 TASK 832
		52-21990	52-11 TASK 833
		52-22020	52-11 TASK 833
527 011 42	DOOR ENTRY 1R (EICAS ADVISORY)	32-71282	32-07 TASK 810
		52-21760	52-11 TASK 832
		52-21860	52-11 TASK 831
		52-22030	52-11 TASK 833
		52-22060	52-11 TASK 833
527 012 41	DOOR ENTRY 2L (EICAS ADVISORY)	32-71282	32-07 TASK 810
		52-21770	52-11 TASK 850
		52-21830	52-11 TASK 848
		52-22070	52-11 TASK 852
		52-22100	52-11 TASK 852
527 012 42	DOOR ENTRY 2R (EICAS ADVISORY)	32-71282	32-07 TASK 810
		52-21780	52-11 TASK 850
		52-21870	52-11 TASK 848
		52-22110	52-11 TASK 852
		52-22140	52-11 TASK 852
527 013 41	DOOR ENTRY 3L (EICAS ADVISORY)	32-71282	32-07 TASK 810
		52-21790	52-11 TASK 850
		52-21795	52-11 TASK 850
		52-21840	52-11 TASK 848

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 013 41	DOOR ENTRY 3L (EICAS ADVISORY)	(continued)	
		52-22150	52-11 TASK 852
		52-22180	52-11 TASK 852
527 013 42	DOOR ENTRY 3R (EICAS ADVISORY)	32-71282	32-07 TASK 810
		52-21800	52-11 TASK 850
		52-21805	52-11 TASK 850
		52-21880	52-11 TASK 848
		52-22190	52-11 TASK 852
		52-22220	52-11 TASK 852
527 014 41	DOOR ENTRY 4L (EICAS ADVISORY)	32-71282	32-07 TASK 810
		52-21810	52-11 TASK 850
		52-21850	52-11 TASK 848
		52-22230	52-11 TASK 852
		52-22260	52-11 TASK 852
527 014 42	DOOR ENTRY 4R (EICAS ADVISORY)	32-71282	32-07 TASK 810
		52-21820	52-11 TASK 850
		52-21890	52-11 TASK 848
		52-22270	52-11 TASK 850
		52-22300	52-11 TASK 852
527 015 41	DOOR ENTRY 5L (EICAS ADVISORY)	52-21815	52-11 TASK 851
		52-21855	52-11 TASK 849
		52-22302	52-11 TASK 853
		52-22308	52-11 TASK 853
527 015 42	DOOR ENTRY 5R (EICAS ADVISORY)	52-21825	52-11 TASK 851
		52-21895	52-11 TASK 849
		52-22312	52-11 TASK 853
		52-22318	52-11 TASK 853
527 021 41	DOOR ENTRY IND 1L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.		
		32-71282	32-07 TASK 810
		32-72210	32-07 TASK 835
		32-72371	32-07 TASK 829
		32-72372	32-07 TASK 831
		32-72381	32-07 TASK 829

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 021 41	DOOR ENTRY IND 1L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-72382 52-21740 52-21750	 32-07 TASK 831 52-11 TASK 831 52-11 TASK 832
527 021 42	DOOR ENTRY IND 1R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	 32-71282 32-72210 32-72371 32-72372 32-72381 32-72382 52-21760 52-21860	 32-07 TASK 810 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831 52-11 TASK 832 52-11 TASK 831
527 022 41	DOOR ENTRY IND 2L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	 32-71282 32-72210 32-72371 32-72372 32-72381 32-72382 52-21770 52-21830	 32-07 TASK 810 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831 52-11 TASK 850 52-11 TASK 848
527 022 42	DOOR ENTRY IND 2R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	 32-71282 32-72210 32-72371	 32-07 TASK 810 32-07 TASK 835 32-07 TASK 829

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 022 42	DOOR ENTRY IND 2R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-72372 32-72381 32-72382 52-21780 52-21870	32-07 TASK 831 32-07 TASK 829 32-07 TASK 831 52-11 TASK 850 52-11 TASK 848
527 023 41	DOOR ENTRY IND 3L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	32-71282 32-72210 32-72371 32-72372 32-72381 32-72382 52-21790 52-21795 52-21840	32-07 TASK 810 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831 52-11 TASK 850 52-11 TASK 850 52-11 TASK 848
527 023 42	DOOR ENTRY IND 3R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	32-71282 32-72210 32-72371 32-72372 32-72381 32-72382 52-21800 52-21805 52-21880	32-07 TASK 810 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831 52-11 TASK 850 52-11 TASK 850 52-11 TASK 848

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 108
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 024 41	DOOR ENTRY IND 4L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	32-71282 32-72220 32-72391 32-72392 32-72400 32-72410 52-21810 52-21850	32-07 TASK 810 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831 52-11 TASK 850 52-11 TASK 848
527 024 42	DOOR ENTRY IND 4R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	32-71282 32-72220 32-72391 32-72392 32-72400 32-72410 52-21820 52-21890	32-07 TASK 810 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831 52-11 TASK 850 52-11 TASK 848
527 025 41	DOOR ENTRY IND 5L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	32-71282 32-72220 32-72391 32-72392 32-72400 32-72410 52-21815 52-21855	32-07 TASK 810 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831 52-11 TASK 851 52-11 TASK 849

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 109
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 025 42	DOOR ENTRY IND 5R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	32-71282	32-07 TASK 810
		32-72220	32-07 TASK 835
		32-72391	32-07 TASK 829
		32-72392	32-07 TASK 831
		32-72400	32-07 TASK 829
		32-72410	32-07 TASK 831
		52-21825	52-11 TASK 851
		52-21895	52-11 TASK 849
527 041 41	DOOR FLIGHT LOCK 1L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	23-81001	23-91 TASK 801
		23-81002	23-91 TASK 802
		23-81003	23-91 TASK 803
		23-81004	23-91 TASK 804
		23-81006	23-91 TASK 806
		24-11784	24-51 TASK 836
		24-11790	24-08 TASK 833
		24-11793	24-08 TASK 834
		24-11795	24-08 TASK 804
		24-11796	24-08 TASK 804
		24-11805	24-08 TASK 801
		24-11806	24-08 TASK 801
		24-12124	24-51 TASK 840
		24-12125	24-51 TASK 841
		24-12126	24-51 TASK 841
		24-12127	24-51 TASK 842
		24-18801	24-09 TASK 806
		24-78861	24-08 TASK 861
		27-14018	27-02 TASK 813
		27-14019	27-02 TASK 941
27-14020	27-02 TASK 942		

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 41	DOOR FLIGHT LOCK 1L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 27-14025 27-14026 27-14027 27-14030 27-14031 27-14032 27-14033 27-15100 27-15101 27-15102 27-18811 27-18822 27-18833 27-19101 27-19201 27-19301 30-36121 30-36122 30-36123 30-36641 30-36642 30-36643 31-52013 31-52101 31-54013 31-54101 31-56014 31-56102 31-56104 31-58014 31-58102	27-02 TASK 943 27-02 TASK 944 27-02 TASK 945 27-02 TASK 905 27-02 TASK 906 27-02 TASK 907 27-02 TASK 908 27-02 TASK 946 27-02 TASK 947 27-02 TASK 948 27-02 TASK 901 27-02 TASK 919 27-02 TASK 920 27-02 TASK 974 27-02 TASK 979 27-02 TASK 983 30-31 TASK 801 30-31 TASK 802 30-31 TASK 803 30-31 TASK 807 30-31 TASK 808 30-31 TASK 809 31-43 TASK 866 31-41 TASK 817 31-43 TASK 868 31-41 TASK 834 31-43 TASK 871 31-41 TASK 845 31-45 TASK 811 31-43 TASK 873 31-41 TASK 853

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 41	DOOR FLIGHT LOCK 1L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 31-69101 31-69102 31-69117 31-69118 31-69201 31-69202 31-69219 31-69220 31-69301 31-69302 31-69317 31-69318 32-21000 32-21001 32-21100 32-21101 32-21300 32-21301 32-22000 32-22001 32-22100 32-22101 32-28801 32-28802 32-71091 32-71092 32-71140 32-71150 32-71161 32-71162 32-71242	31-42 TASK 801 31-42 TASK 801 31-42 TASK 806 31-42 TASK 806 31-42 TASK 809 31-42 TASK 809 31-42 TASK 814 31-42 TASK 814 31-42 TASK 817 31-42 TASK 817 31-42 TASK 822 31-42 TASK 822 32-09 TASK 807 32-09 TASK 808 32-09 TASK 802 32-09 TASK 801 32-09 TASK 803 32-09 TASK 804 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 821 32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 817 32-07 TASK 815 32-07 TASK 811 32-07 TASK 813 32-07 TASK 815

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 41	DOOR FLIGHT LOCK 1L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-71252 32-71262 32-71271 32-71272 32-71280 32-71282 32-71461 32-71462 32-71501 32-71502 32-72091 32-72092 32-72111 32-72112 32-72131 32-72132 32-72161 32-72162 32-72301 32-72302 32-73461 32-73462 32-79424 32-79622 34-25101 34-25102 34-25103 34-25201 34-25202 34-25203 34-26101	32-07 TASK 818 32-07 TASK 813 32-07 TASK 812 32-07 TASK 814 32-07 TASK 809 32-07 TASK 810 32-07 TASK 811 32-07 TASK 813 32-07 TASK 811 32-07 TASK 813 32-07 TASK 889 32-07 TASK 890 32-07 TASK 889 32-07 TASK 890 32-07 TASK 835 32-07 TASK 835 32-07 TASK 840 32-07 TASK 841 32-07 TASK 830 32-07 TASK 832 32-07 TASK 910 32-07 TASK 911 32-07 TASK 853 32-07 TASK 865 34-11 TASK 801 34-11 TASK 802 34-11 TASK 803 34-11 TASK 804 34-11 TASK 805 34-11 TASK 806 34-21 TASK 810

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 41	DOOR FLIGHT LOCK 1L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 34-26102 34-26103 34-26201 34-26202 34-26203 34-28801 34-28810 34-28813 34-28816 34-28824 34-28827 34-28830 34-28835 34-28838 34-29101 34-29102 34-29105 34-29115 34-29120 34-29201 34-29202 34-29204 34-29216 34-29301 34-29303 34-29306 34-29317 34-29320 34-30700 34-30712 34-38801	34-21 TASK 839 34-21 TASK 840 34-21 TASK 843 34-21 TASK 844 34-21 TASK 845 34-21 TASK 848 34-21 TASK 849 34-21 TASK 813 34-21 TASK 814 34-21 TASK 850 34-21 TASK 851 34-21 TASK 852 34-21 TASK 853 34-21 TASK 854 34-21 TASK 893 34-21 TASK 815 34-21 TASK 816 34-21 TASK 857 34-21 TASK 894 34-21 TASK 858 34-21 TASK 859 34-21 TASK 860 34-21 TASK 862 34-21 TASK 895 34-21 TASK 864 34-21 TASK 865 34-21 TASK 869 34-21 TASK 896 34-21 TASK 870 34-21 TASK 871 34-21 TASK 874

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 41	DOOR FLIGHT LOCK 1L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		34-38820	34-21 TASK 898
		34-39201	34-21 TASK 871
		52-17003	52-11 TASK 828
		52-21280	52-11 TASK 826
		52-21380	52-11 TASK 827
		52-21580	52-11 TASK 829
		52-21660	52-11 TASK 830
		52-22000	52-11 TASK 833
52-22010	52-11 TASK 833		
527 041 42	DOOR FLIGHT LOCK 1R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	21-16205	21-25 TASK 823
		23-81001	23-91 TASK 801
		23-81002	23-91 TASK 802
		23-81003	23-91 TASK 803
		23-81004	23-91 TASK 804
		23-81006	23-91 TASK 806
		24-11784	24-51 TASK 836
		24-12057	24-08 TASK 836
		24-12122	24-08 TASK 835
		24-12124	24-51 TASK 840
		24-12125	24-51 TASK 841
		24-12126	24-51 TASK 841
		24-12127	24-51 TASK 842
		24-12800	24-08 TASK 805
		24-12801	24-08 TASK 805
		24-12810	24-08 TASK 802
		24-12811	24-08 TASK 802
		24-18802	24-09 TASK 807
27-14018	27-02 TASK 813		

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 42	DOOR FLIGHT LOCK 1R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 27-14019 27-14020 27-14025 27-14026 27-14027 27-14030 27-14031 27-14032 27-14033 27-15100 27-15101 27-15102 27-18811 27-18822 27-18833 27-19101 27-19201 27-19301 30-36121 30-36122 30-36123 30-36641 30-36642 30-36643 31-52013 31-52101 31-54013 31-54101 31-56014 31-56102 31-56104	27-02 TASK 941 27-02 TASK 942 27-02 TASK 943 27-02 TASK 944 27-02 TASK 945 27-02 TASK 905 27-02 TASK 906 27-02 TASK 907 27-02 TASK 908 27-02 TASK 946 27-02 TASK 947 27-02 TASK 948 27-02 TASK 901 27-02 TASK 919 27-02 TASK 920 27-02 TASK 974 27-02 TASK 979 27-02 TASK 983 30-31 TASK 801 30-31 TASK 802 30-31 TASK 803 30-31 TASK 807 30-31 TASK 808 30-31 TASK 809 31-43 TASK 866 31-41 TASK 817 31-43 TASK 868 31-41 TASK 834 31-43 TASK 871 31-41 TASK 845 31-45 TASK 811

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 42	DOOR FLIGHT LOCK 1R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 31-58014 31-58102 31-69101 31-69102 31-69117 31-69118 31-69201 31-69202 31-69219 31-69220 31-69301 31-69302 31-69317 31-69318 32-21000 32-21001 32-21100 32-21101 32-21300 32-21301 32-22000 32-22001 32-22100 32-22101 32-28801 32-28802 32-71091 32-71092 32-71131 32-71140 32-71150	31-43 TASK 873 31-41 TASK 853 31-42 TASK 801 31-42 TASK 801 31-42 TASK 806 31-42 TASK 806 31-42 TASK 809 31-42 TASK 809 31-42 TASK 814 31-42 TASK 814 31-42 TASK 817 31-42 TASK 817 31-42 TASK 822 31-42 TASK 822 32-09 TASK 807 32-09 TASK 808 32-09 TASK 802 32-09 TASK 801 32-09 TASK 803 32-09 TASK 804 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 821 32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 811 32-07 TASK 817 32-07 TASK 815

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



777-200/300
FAULT ISOLATION MANUAL

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 42	DOOR FLIGHT LOCK 1R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		32-71161	32-07 TASK 811
		32-71162	32-07 TASK 813
		32-71242	32-07 TASK 815
		32-71252	32-07 TASK 818
		32-71262	32-07 TASK 813
		32-71271	32-07 TASK 812
		32-71272	32-07 TASK 814
		32-71280	32-07 TASK 809
		32-71282	32-07 TASK 810
		32-71461	32-07 TASK 811
		32-71462	32-07 TASK 813
		32-71501	32-07 TASK 811
		32-71502	32-07 TASK 813
		32-72091	32-07 TASK 889
		32-72092	32-07 TASK 890
		32-72111	32-07 TASK 889
		32-72112	32-07 TASK 890
		32-72131	32-07 TASK 835
		32-72132	32-07 TASK 835
		32-72161	32-07 TASK 840
		32-72162	32-07 TASK 841
		32-72301	32-07 TASK 830
		32-72302	32-07 TASK 832
		32-73461	32-07 TASK 910
		32-73462	32-07 TASK 911
		32-79426	32-07 TASK 857
		32-79626	32-07 TASK 870
		34-25101	34-11 TASK 801
		34-25102	34-11 TASK 802
		34-25103	34-11 TASK 803
		34-25201	34-11 TASK 804

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 118
Sep 05/2015



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 42	DOOR FLIGHT LOCK 1R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 34-25202 34-25203 34-26101 34-26102 34-26103 34-26201 34-26202 34-26203 34-28801 34-28810 34-28813 34-28816 34-28824 34-28827 34-28830 34-28835 34-28838 34-29101 34-29102 34-29105 34-29115 34-29120 34-29201 34-29202 34-29204 34-29216 34-29301 34-29303 34-29306 34-29317 34-29320	34-11 TASK 805 34-11 TASK 806 34-21 TASK 810 34-21 TASK 839 34-21 TASK 840 34-21 TASK 843 34-21 TASK 844 34-21 TASK 845 34-21 TASK 848 34-21 TASK 849 34-21 TASK 813 34-21 TASK 814 34-21 TASK 850 34-21 TASK 851 34-21 TASK 852 34-21 TASK 853 34-21 TASK 854 34-21 TASK 893 34-21 TASK 815 34-21 TASK 816 34-21 TASK 857 34-21 TASK 894 34-21 TASK 858 34-21 TASK 859 34-21 TASK 860 34-21 TASK 862 34-21 TASK 895 34-21 TASK 864 34-21 TASK 865 34-21 TASK 869 34-21 TASK 896

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 041 42	DOOR FLIGHT LOCK 1R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		34-30700	34-21 TASK 870
		34-30712	34-21 TASK 871
		34-38801	34-21 TASK 874
		34-38820	34-21 TASK 898
		34-39201	34-21 TASK 871
		52-17004	52-11 TASK 828
		52-21290	52-11 TASK 826
		52-21430	52-11 TASK 827
		52-21590	52-11 TASK 829
		52-21670	52-11 TASK 830
		52-22040	52-11 TASK 833
		52-22050	52-11 TASK 833
527 042 41	DOOR FLIGHT LOCK 2L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	23-81001	23-91 TASK 801
		23-81002	23-91 TASK 802
		23-81003	23-91 TASK 803
		23-81004	23-91 TASK 804
		23-81006	23-91 TASK 806
		24-11784	24-51 TASK 836
		24-11790	24-08 TASK 833
		24-11793	24-08 TASK 834
		24-11795	24-08 TASK 804
		24-11796	24-08 TASK 804
		24-11804	24-08 TASK 801
		24-12124	24-51 TASK 840
		24-12125	24-51 TASK 841
		24-12126	24-51 TASK 841
		24-12127	24-51 TASK 842
		24-18801	24-09 TASK 806

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 41	DOOR FLIGHT LOCK 2L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 24-78861 27-14018 27-14019 27-14020 27-14025 27-14026 27-14027 27-14030 27-14031 27-14032 27-14033 27-15100 27-15101 27-15102 27-18811 27-18822 27-18833 27-19101 27-19201 27-19301 30-36121 30-36122 30-36123 30-36641 30-36642 30-36643 31-52013 31-52101 31-54013 31-54101 31-56014	24-08 TASK 861 27-02 TASK 813 27-02 TASK 941 27-02 TASK 942 27-02 TASK 943 27-02 TASK 944 27-02 TASK 945 27-02 TASK 905 27-02 TASK 906 27-02 TASK 907 27-02 TASK 908 27-02 TASK 946 27-02 TASK 947 27-02 TASK 948 27-02 TASK 901 27-02 TASK 919 27-02 TASK 920 27-02 TASK 974 27-02 TASK 979 27-02 TASK 983 30-31 TASK 801 30-31 TASK 802 30-31 TASK 803 30-31 TASK 807 30-31 TASK 808 30-31 TASK 809 31-43 TASK 866 31-41 TASK 817 31-43 TASK 868 31-41 TASK 834 31-43 TASK 871

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 41	DOOR FLIGHT LOCK 2L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 31-56102 31-56104 31-58014 31-58102 31-69101 31-69102 31-69117 31-69118 31-69201 31-69202 31-69219 31-69220 31-69301 31-69302 31-69317 31-69318 32-21000 32-21001 32-21100 32-21101 32-21300 32-21301 32-22000 32-22001 32-22100 32-22101 32-28801 32-28802 32-71091 32-71092 32-71131	31-41 TASK 845 31-45 TASK 811 31-43 TASK 873 31-41 TASK 853 31-42 TASK 801 31-42 TASK 801 31-42 TASK 806 31-42 TASK 806 31-42 TASK 809 31-42 TASK 809 31-42 TASK 814 31-42 TASK 814 31-42 TASK 817 31-42 TASK 817 31-42 TASK 822 31-42 TASK 822 32-09 TASK 807 32-09 TASK 808 32-09 TASK 802 32-09 TASK 801 32-09 TASK 803 32-09 TASK 804 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 821 32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 811

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 41	DOOR FLIGHT LOCK 2L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-71140 32-71150 32-71161 32-71162 32-71242 32-71252 32-71262 32-71271 32-71272 32-71280 32-71282 32-71461 32-71462 32-71501 32-71502 32-72091 32-72092 32-72111 32-72112 32-72131 32-72132 32-72161 32-72162 32-72301 32-72302 32-73461 32-73462 32-79424 32-79622 34-25101 34-25102	32-07 TASK 817 32-07 TASK 815 32-07 TASK 811 32-07 TASK 813 32-07 TASK 815 32-07 TASK 818 32-07 TASK 813 32-07 TASK 812 32-07 TASK 814 32-07 TASK 809 32-07 TASK 810 32-07 TASK 811 32-07 TASK 813 32-07 TASK 811 32-07 TASK 813 32-07 TASK 889 32-07 TASK 890 32-07 TASK 889 32-07 TASK 890 32-07 TASK 835 32-07 TASK 835 32-07 TASK 840 32-07 TASK 841 32-07 TASK 830 32-07 TASK 832 32-07 TASK 910 32-07 TASK 911 32-07 TASK 853 32-07 TASK 865 34-11 TASK 801 34-11 TASK 802

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 41	DOOR FLIGHT LOCK 2L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 34-25103 34-25201 34-25202 34-25203 34-26101 34-26102 34-26103 34-26201 34-26202 34-26203 34-28801 34-28810 34-28813 34-28816 34-28824 34-28827 34-28830 34-28835 34-28838 34-29101 34-29102 34-29105 34-29115 34-29120 34-29201 34-29202 34-29204 34-29216 34-29301 34-29303 34-29306	34-11 TASK 803 34-11 TASK 804 34-11 TASK 805 34-11 TASK 806 34-21 TASK 810 34-21 TASK 839 34-21 TASK 840 34-21 TASK 843 34-21 TASK 844 34-21 TASK 845 34-21 TASK 848 34-21 TASK 849 34-21 TASK 813 34-21 TASK 814 34-21 TASK 850 34-21 TASK 851 34-21 TASK 852 34-21 TASK 853 34-21 TASK 854 34-21 TASK 893 34-21 TASK 815 34-21 TASK 816 34-21 TASK 857 34-21 TASK 894 34-21 TASK 858 34-21 TASK 859 34-21 TASK 860 34-21 TASK 862 34-21 TASK 895 34-21 TASK 864 34-21 TASK 865

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 41	DOOR FLIGHT LOCK 2L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		34-29317	34-21 TASK 869
		34-29320	34-21 TASK 896
		34-30700	34-21 TASK 870
		34-30712	34-21 TASK 871
		34-38801	34-21 TASK 874
		34-38820	34-21 TASK 898
		34-39201	34-21 TASK 871
		52-17003	52-11 TASK 828
		52-21300	52-11 TASK 838
		52-21390	52-11 TASK 846
		52-21600	52-11 TASK 842
		52-21680	52-11 TASK 844
		52-22080	52-11 TASK 852
		52-22090	52-11 TASK 852
52-23010	52-11 TASK 854		
527 042 42	DOOR FLIGHT LOCK 2R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	21-16205	21-25 TASK 823
		23-81001	23-91 TASK 801
		23-81002	23-91 TASK 802
		23-81003	23-91 TASK 803
		23-81004	23-91 TASK 804
		23-81006	23-91 TASK 806
		24-11784	24-51 TASK 836
		24-12057	24-08 TASK 836
		24-12122	24-08 TASK 835
		24-12124	24-51 TASK 840
		24-12125	24-51 TASK 841
		24-12126	24-51 TASK 841
		24-12127	24-51 TASK 842

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 125
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 42	DOOR FLIGHT LOCK 2R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 24-12800 24-12801 24-12808 24-12809 24-18802 27-14018 27-14019 27-14020 27-14025 27-14026 27-14027 27-14030 27-14031 27-14032 27-14033 27-15100 27-15101 27-15102 27-18811 27-18822 27-18833 27-19101 27-19201 27-19301 30-36121 30-36122 30-36123 30-36641 30-36642 30-36643 31-52013	24-08 TASK 805 24-08 TASK 805 24-08 TASK 802 24-08 TASK 802 24-09 TASK 807 27-02 TASK 813 27-02 TASK 941 27-02 TASK 942 27-02 TASK 943 27-02 TASK 944 27-02 TASK 945 27-02 TASK 905 27-02 TASK 906 27-02 TASK 907 27-02 TASK 908 27-02 TASK 946 27-02 TASK 947 27-02 TASK 948 27-02 TASK 901 27-02 TASK 919 27-02 TASK 920 27-02 TASK 974 27-02 TASK 979 27-02 TASK 983 30-31 TASK 801 30-31 TASK 802 30-31 TASK 803 30-31 TASK 807 30-31 TASK 808 30-31 TASK 809 31-43 TASK 866

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 42	DOOR FLIGHT LOCK 2R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 31-52101 31-54013 31-54101 31-56014 31-56102 31-56104 31-58014 31-58102 31-69101 31-69102 31-69117 31-69118 31-69201 31-69202 31-69219 31-69220 31-69301 31-69302 31-69317 31-69318 32-21000 32-21001 32-21100 32-21101 32-21300 32-21301 32-22000 32-22001 32-22100 32-22101 32-28801	31-41 TASK 817 31-43 TASK 868 31-41 TASK 834 31-43 TASK 871 31-41 TASK 845 31-45 TASK 811 31-43 TASK 873 31-41 TASK 853 31-42 TASK 801 31-42 TASK 801 31-42 TASK 806 31-42 TASK 806 31-42 TASK 809 31-42 TASK 809 31-42 TASK 814 31-42 TASK 814 31-42 TASK 817 31-42 TASK 817 31-42 TASK 822 31-42 TASK 822 32-09 TASK 807 32-09 TASK 808 32-09 TASK 802 32-09 TASK 801 32-09 TASK 803 32-09 TASK 804 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 821

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 42	DOOR FLIGHT LOCK 2R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-28802 32-71091 32-71092 32-71140 32-71150 32-71161 32-71162 32-71242 32-71252 32-71262 32-71271 32-71272 32-71280 32-71282 32-71461 32-71462 32-71501 32-71502 32-72091 32-72092 32-72111 32-72112 32-72131 32-72132 32-72161 32-72162 32-72301 32-72302 32-73461 32-73462 32-79426	32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 817 32-07 TASK 815 32-07 TASK 811 32-07 TASK 813 32-07 TASK 815 32-07 TASK 818 32-07 TASK 813 32-07 TASK 812 32-07 TASK 814 32-07 TASK 809 32-07 TASK 810 32-07 TASK 811 32-07 TASK 813 32-07 TASK 811 32-07 TASK 813 32-07 TASK 889 32-07 TASK 890 32-07 TASK 889 32-07 TASK 890 32-07 TASK 835 32-07 TASK 835 32-07 TASK 840 32-07 TASK 841 32-07 TASK 830 32-07 TASK 832 32-07 TASK 910 32-07 TASK 911 32-07 TASK 857

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 42	DOOR FLIGHT LOCK 2R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		32-79626	32-07 TASK 870
		34-25101	34-11 TASK 801
		34-25102	34-11 TASK 802
		34-25103	34-11 TASK 803
		34-25201	34-11 TASK 804
		34-25202	34-11 TASK 805
		34-25203	34-11 TASK 806
		34-26101	34-21 TASK 810
		34-26102	34-21 TASK 839
		34-26103	34-21 TASK 840
		34-26201	34-21 TASK 843
		34-26202	34-21 TASK 844
		34-26203	34-21 TASK 845
		34-28801	34-21 TASK 848
		34-28810	34-21 TASK 849
		34-28813	34-21 TASK 813
		34-28816	34-21 TASK 814
		34-28824	34-21 TASK 850
		34-28827	34-21 TASK 851
		34-28830	34-21 TASK 852
		34-28835	34-21 TASK 853
		34-28838	34-21 TASK 854
		34-29101	34-21 TASK 893
		34-29102	34-21 TASK 815
		34-29105	34-21 TASK 816
		34-29115	34-21 TASK 857
		34-29120	34-21 TASK 894
		34-29201	34-21 TASK 858
		34-29202	34-21 TASK 859
		34-29204	34-21 TASK 860
		34-29216	34-21 TASK 862

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 042 42	DOOR FLIGHT LOCK 2R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 34-29301 34-29303 34-29306 34-29317 34-29320 34-30700 34-30712 34-38801 34-38820 34-39201 52-17004 52-21310 52-21440 52-21610 52-21690 52-22120 52-22130 52-23060	34-21 TASK 895 34-21 TASK 864 34-21 TASK 865 34-21 TASK 869 34-21 TASK 896 34-21 TASK 870 34-21 TASK 871 34-21 TASK 874 34-21 TASK 898 34-21 TASK 871 52-11 TASK 828 52-11 TASK 838 52-11 TASK 846 52-11 TASK 842 52-11 TASK 844 52-11 TASK 852 52-11 TASK 852 52-11 TASK 854
527 043 41	DOOR FLIGHT LOCK 3L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	23-81001 23-81002 23-81003 23-81004 23-81006 24-11784 24-11790 24-11793 24-11795 24-11796	23-91 TASK 801 23-91 TASK 802 23-91 TASK 803 23-91 TASK 804 23-91 TASK 806 24-51 TASK 836 24-08 TASK 833 24-08 TASK 834 24-08 TASK 804 24-08 TASK 804

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



777-200/300
FAULT ISOLATION MANUAL

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 41	DOOR FLIGHT LOCK 3L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		24-11805	24-08 TASK 801
		24-11806	24-08 TASK 801
		24-12124	24-51 TASK 840
		24-12125	24-51 TASK 841
		24-12126	24-51 TASK 841
		24-12127	24-51 TASK 842
		24-18801	24-09 TASK 806
		24-78861	24-08 TASK 861
		27-14018	27-02 TASK 813
		27-14019	27-02 TASK 941
		27-14020	27-02 TASK 942
		27-14025	27-02 TASK 943
		27-14026	27-02 TASK 944
		27-14027	27-02 TASK 945
		27-14030	27-02 TASK 905
		27-14031	27-02 TASK 906
		27-14032	27-02 TASK 907
		27-14033	27-02 TASK 908
		27-15100	27-02 TASK 946
		27-15101	27-02 TASK 947
		27-15102	27-02 TASK 948
		27-18811	27-02 TASK 901
		27-18822	27-02 TASK 919
		27-18833	27-02 TASK 920
		27-19101	27-02 TASK 974
		27-19201	27-02 TASK 979
		27-19301	27-02 TASK 983
		30-36121	30-31 TASK 801
		30-36122	30-31 TASK 802
		30-36123	30-31 TASK 803
		30-36641	30-31 TASK 807

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 131
Sep 05/2015



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 41	DOOR FLIGHT LOCK 3L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		30-36642	30-31 TASK 808
		30-36643	30-31 TASK 809
		31-52013	31-43 TASK 866
		31-52101	31-41 TASK 817
		31-54013	31-43 TASK 868
		31-54101	31-41 TASK 834
		31-56014	31-43 TASK 871
		31-56102	31-41 TASK 845
		31-56104	31-45 TASK 811
		31-58014	31-43 TASK 873
		31-58102	31-41 TASK 853
		31-69101	31-42 TASK 801
		31-69102	31-42 TASK 801
		31-69117	31-42 TASK 806
		31-69118	31-42 TASK 806
		31-69201	31-42 TASK 809
		31-69202	31-42 TASK 809
		31-69219	31-42 TASK 814
		31-69220	31-42 TASK 814
		31-69301	31-42 TASK 817
		31-69302	31-42 TASK 817
		31-69317	31-42 TASK 822
		31-69318	31-42 TASK 822
		32-21000	32-09 TASK 807
		32-21001	32-09 TASK 808
		32-21100	32-09 TASK 802
		32-21101	32-09 TASK 801
		32-21300	32-09 TASK 803
		32-21301	32-09 TASK 804
		32-22000	32-09 TASK 809
		32-22001	32-09 TASK 809

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 41	DOOR FLIGHT LOCK 3L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-22100 32-22101 32-28801 32-28802 32-71091 32-71092 32-71131 32-71140 32-71150 32-71161 32-71162 32-71242 32-71252 32-71262 32-71271 32-71272 32-71280 32-71282 32-71461 32-71462 32-71501 32-71502 32-72091 32-72092 32-72111 32-72112 32-72131 32-72132 32-72161 32-72162 32-72301	32-09 TASK 809 32-09 TASK 809 32-09 TASK 821 32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 811 32-07 TASK 817 32-07 TASK 815 32-07 TASK 811 32-07 TASK 813 32-07 TASK 815 32-07 TASK 818 32-07 TASK 813 32-07 TASK 812 32-07 TASK 814 32-07 TASK 809 32-07 TASK 810 32-07 TASK 811 32-07 TASK 813 32-07 TASK 811 32-07 TASK 813 32-07 TASK 889 32-07 TASK 890 32-07 TASK 889 32-07 TASK 890 32-07 TASK 835 32-07 TASK 835 32-07 TASK 840 32-07 TASK 841 32-07 TASK 830

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 41	DOOR FLIGHT LOCK 3L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-72302 32-73461 32-73462 32-79424 32-79622 34-25101 34-25102 34-25103 34-25201 34-25202 34-25203 34-26101 34-26102 34-26103 34-26201 34-26202 34-26203 34-28801 34-28810 34-28813 34-28816 34-28824 34-28827 34-28830 34-28835 34-28838 34-29101 34-29102 34-29105 34-29115 34-29120	32-07 TASK 832 32-07 TASK 910 32-07 TASK 911 32-07 TASK 853 32-07 TASK 865 34-11 TASK 801 34-11 TASK 802 34-11 TASK 803 34-11 TASK 804 34-11 TASK 805 34-11 TASK 806 34-21 TASK 810 34-21 TASK 839 34-21 TASK 840 34-21 TASK 843 34-21 TASK 844 34-21 TASK 845 34-21 TASK 848 34-21 TASK 849 34-21 TASK 813 34-21 TASK 814 34-21 TASK 850 34-21 TASK 851 34-21 TASK 852 34-21 TASK 853 34-21 TASK 854 34-21 TASK 893 34-21 TASK 815 34-21 TASK 816 34-21 TASK 857 34-21 TASK 894

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 41	DOOR FLIGHT LOCK 3L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		34-29201	34-21 TASK 858
		34-29202	34-21 TASK 859
		34-29204	34-21 TASK 860
		34-29216	34-21 TASK 862
		34-29301	34-21 TASK 895
		34-29303	34-21 TASK 864
		34-29306	34-21 TASK 865
		34-29317	34-21 TASK 869
		34-29320	34-21 TASK 896
		34-30700	34-21 TASK 870
		34-30712	34-21 TASK 871
		34-38801	34-21 TASK 874
		34-38820	34-21 TASK 898
		34-39201	34-21 TASK 871
		52-17003	52-11 TASK 828
		52-21320	52-11 TASK 838
		52-21325	52-11 TASK 838
		52-21400	52-11 TASK 846
		52-21620	52-11 TASK 842
		52-21625	52-11 TASK 842
		52-21700	52-11 TASK 844
		52-21705	52-11 TASK 844
52-22160	52-11 TASK 852		
52-22170	52-11 TASK 852		
52-23020	52-11 TASK 854		
527 043 42	DOOR FLIGHT LOCK 3R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	21-16205	21-25 TASK 823
		23-81001	23-91 TASK 801
		23-81002	23-91 TASK 802

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 42	DOOR FLIGHT LOCK 3R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 23-81003 23-81004 23-81006 24-11784 24-12057 24-12122 24-12124 24-12125 24-12126 24-12127 24-12800 24-12801 24-12810 24-12811 24-18802 27-14018 27-14019 27-14020 27-14025 27-14026 27-14027 27-14030 27-14031 27-14032 27-14033 27-15100 27-15101 27-15102 27-18811 27-18822 27-18833	23-91 TASK 803 23-91 TASK 804 23-91 TASK 806 24-51 TASK 836 24-08 TASK 836 24-08 TASK 835 24-51 TASK 840 24-51 TASK 841 24-51 TASK 841 24-51 TASK 842 24-08 TASK 805 24-08 TASK 805 24-08 TASK 802 24-08 TASK 802 24-09 TASK 807 27-02 TASK 813 27-02 TASK 941 27-02 TASK 942 27-02 TASK 943 27-02 TASK 944 27-02 TASK 945 27-02 TASK 905 27-02 TASK 906 27-02 TASK 907 27-02 TASK 908 27-02 TASK 946 27-02 TASK 947 27-02 TASK 948 27-02 TASK 901 27-02 TASK 919 27-02 TASK 920

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 42	DOOR FLIGHT LOCK 3R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 27-19101 27-19201 27-19301 30-36121 30-36122 30-36123 30-36641 30-36642 30-36643 31-52013 31-52101 31-54013 31-54101 31-56014 31-56102 31-56104 31-58014 31-58102 31-69101 31-69102 31-69117 31-69118 31-69201 31-69202 31-69219 31-69220 31-69301 31-69302 31-69317 31-69318 32-21000	27-02 TASK 974 27-02 TASK 979 27-02 TASK 983 30-31 TASK 801 30-31 TASK 802 30-31 TASK 803 30-31 TASK 807 30-31 TASK 808 30-31 TASK 809 31-43 TASK 866 31-41 TASK 817 31-43 TASK 868 31-41 TASK 834 31-43 TASK 871 31-41 TASK 845 31-45 TASK 811 31-43 TASK 873 31-41 TASK 853 31-42 TASK 801 31-42 TASK 801 31-42 TASK 806 31-42 TASK 806 31-42 TASK 809 31-42 TASK 809 31-42 TASK 814 31-42 TASK 814 31-42 TASK 817 31-42 TASK 817 31-42 TASK 822 31-42 TASK 822 32-09 TASK 807

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 42	DOOR FLIGHT LOCK 3R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-21001 32-21100 32-21101 32-21300 32-21301 32-22000 32-22001 32-22100 32-22101 32-28801 32-28802 32-71091 32-71092 32-71131 32-71140 32-71150 32-71161 32-71162 32-71242 32-71252 32-71262 32-71271 32-71272 32-71280 32-71282 32-71461 32-71462 32-71501 32-71502 32-72091 32-72092	32-09 TASK 808 32-09 TASK 802 32-09 TASK 801 32-09 TASK 803 32-09 TASK 804 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 821 32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 811 32-07 TASK 817 32-07 TASK 815 32-07 TASK 811 32-07 TASK 813 32-07 TASK 815 32-07 TASK 818 32-07 TASK 813 32-07 TASK 812 32-07 TASK 814 32-07 TASK 809 32-07 TASK 810 32-07 TASK 811 32-07 TASK 813 32-07 TASK 811 32-07 TASK 813 32-07 TASK 889 32-07 TASK 890

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 42	DOOR FLIGHT LOCK 3R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-72111 32-72112 32-72131 32-72132 32-72161 32-72162 32-72301 32-72302 32-73461 32-73462 32-79426 32-79626 34-25101 34-25102 34-25103 34-25201 34-25202 34-25203 34-26101 34-26102 34-26103 34-26201 34-26202 34-26203 34-28801 34-28810 34-28813 34-28816 34-28824 34-28827 34-28830	32-07 TASK 889 32-07 TASK 890 32-07 TASK 835 32-07 TASK 835 32-07 TASK 840 32-07 TASK 841 32-07 TASK 830 32-07 TASK 832 32-07 TASK 910 32-07 TASK 911 32-07 TASK 857 32-07 TASK 870 34-11 TASK 801 34-11 TASK 802 34-11 TASK 803 34-11 TASK 804 34-11 TASK 805 34-11 TASK 806 34-21 TASK 810 34-21 TASK 839 34-21 TASK 840 34-21 TASK 843 34-21 TASK 844 34-21 TASK 845 34-21 TASK 848 34-21 TASK 849 34-21 TASK 813 34-21 TASK 814 34-21 TASK 850 34-21 TASK 851 34-21 TASK 852

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 42	DOOR FLIGHT LOCK 3R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 34-28835 34-28838 34-29101 34-29102 34-29105 34-29115 34-29120 34-29201 34-29202 34-29204 34-29216 34-29301 34-29303 34-29306 34-29317 34-29320 34-30700 34-30712 34-38801 34-38820 34-39201 52-17004 52-21330 52-21335 52-21450 52-21630 52-21635 52-21710 52-21715 52-22200 52-22210	34-21 TASK 853 34-21 TASK 854 34-21 TASK 893 34-21 TASK 815 34-21 TASK 816 34-21 TASK 857 34-21 TASK 894 34-21 TASK 858 34-21 TASK 859 34-21 TASK 860 34-21 TASK 862 34-21 TASK 895 34-21 TASK 864 34-21 TASK 865 34-21 TASK 869 34-21 TASK 896 34-21 TASK 870 34-21 TASK 871 34-21 TASK 874 34-21 TASK 898 34-21 TASK 871 52-11 TASK 828 52-11 TASK 838 52-11 TASK 838 52-11 TASK 846 52-11 TASK 842 52-11 TASK 842 52-11 TASK 844 52-11 TASK 844 52-11 TASK 852 52-11 TASK 852

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 043 42	DOOR FLIGHT LOCK 3R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 52-23070	 52-11 TASK 854
527 044 41	DOOR FLIGHT LOCK 4L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	23-81001 23-81002 23-81003 23-81004 23-81006 24-11784 24-11790 24-11793 24-11795 24-11796 24-11804 24-12124 24-12125 24-12126 24-12127 24-12808 24-12809 24-18801 24-78861 27-14018 27-14019 27-14020 27-14025 27-14026 27-14027 27-14030 27-14031	23-91 TASK 801 23-91 TASK 802 23-91 TASK 803 23-91 TASK 804 23-91 TASK 806 24-51 TASK 836 24-08 TASK 833 24-08 TASK 834 24-08 TASK 804 24-08 TASK 804 24-08 TASK 801 24-51 TASK 840 24-51 TASK 841 24-51 TASK 841 24-51 TASK 842 24-08 TASK 802 24-08 TASK 802 24-09 TASK 806 24-08 TASK 861 27-02 TASK 813 27-02 TASK 941 27-02 TASK 942 27-02 TASK 943 27-02 TASK 944 27-02 TASK 945 27-02 TASK 905 27-02 TASK 906

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 41	DOOR FLIGHT LOCK 4L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 27-14032 27-14033 27-15100 27-15101 27-15102 27-18811 27-18822 27-18833 27-19101 27-19201 27-19301 30-36121 30-36122 30-36123 30-36641 30-36642 30-36643 31-52013 31-52101 31-54013 31-54101 31-56014 31-56102 31-56104 31-58014 31-58102 31-69101 31-69102 31-69117 31-69118 31-69201	27-02 TASK 907 27-02 TASK 908 27-02 TASK 946 27-02 TASK 947 27-02 TASK 948 27-02 TASK 901 27-02 TASK 919 27-02 TASK 920 27-02 TASK 974 27-02 TASK 979 27-02 TASK 983 30-31 TASK 801 30-31 TASK 802 30-31 TASK 803 30-31 TASK 807 30-31 TASK 808 30-31 TASK 809 31-43 TASK 866 31-41 TASK 817 31-43 TASK 868 31-41 TASK 834 31-43 TASK 871 31-41 TASK 845 31-45 TASK 811 31-43 TASK 873 31-41 TASK 853 31-42 TASK 801 31-42 TASK 801 31-42 TASK 806 31-42 TASK 806 31-42 TASK 809

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 41	DOOR FLIGHT LOCK 4L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 31-69202 31-69219 31-69220 31-69301 31-69302 31-69317 31-69318 32-21000 32-21001 32-21100 32-21101 32-21300 32-21301 32-22000 32-22001 32-22100 32-22101 32-28801 32-28802 32-71091 32-71092 32-71131 32-71140 32-71150 32-71161 32-71162 32-71242 32-71252 32-71262 32-71271 32-71272	31-42 TASK 809 31-42 TASK 814 31-42 TASK 814 31-42 TASK 817 31-42 TASK 817 31-42 TASK 822 31-42 TASK 822 32-09 TASK 807 32-09 TASK 808 32-09 TASK 802 32-09 TASK 801 32-09 TASK 803 32-09 TASK 804 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 821 32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 811 32-07 TASK 817 32-07 TASK 815 32-07 TASK 811 32-07 TASK 813 32-07 TASK 815 32-07 TASK 818 32-07 TASK 813 32-07 TASK 812 32-07 TASK 814

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 41	DOOR FLIGHT LOCK 4L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-71280 32-71282 32-71461 32-71462 32-71501 32-71502 32-72091 32-72092 32-72111 32-72112 32-72131 32-72132 32-72161 32-72162 32-72301 32-72302 32-73461 32-73462 32-79424 32-79622 34-25101 34-25102 34-25103 34-25201 34-25202 34-25203 34-26101 34-26102 34-26103 34-26201 34-26202	32-07 TASK 809 32-07 TASK 810 32-07 TASK 811 32-07 TASK 813 32-07 TASK 811 32-07 TASK 813 32-07 TASK 889 32-07 TASK 890 32-07 TASK 889 32-07 TASK 890 32-07 TASK 835 32-07 TASK 835 32-07 TASK 840 32-07 TASK 841 32-07 TASK 830 32-07 TASK 832 32-07 TASK 910 32-07 TASK 911 32-07 TASK 853 32-07 TASK 865 34-11 TASK 801 34-11 TASK 802 34-11 TASK 803 34-11 TASK 804 34-11 TASK 805 34-11 TASK 806 34-21 TASK 810 34-21 TASK 839 34-21 TASK 840 34-21 TASK 843 34-21 TASK 844

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 41	DOOR FLIGHT LOCK 4L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 34-26203 34-28801 34-28810 34-28813 34-28816 34-28824 34-28827 34-28830 34-28835 34-28838 34-29101 34-29102 34-29105 34-29115 34-29120 34-29201 34-29202 34-29204 34-29216 34-29301 34-29303 34-29306 34-29317 34-29320 34-30700 34-30712 34-38801 34-38820 34-39201 52-17003 52-21340	34-21 TASK 845 34-21 TASK 848 34-21 TASK 849 34-21 TASK 813 34-21 TASK 814 34-21 TASK 850 34-21 TASK 851 34-21 TASK 852 34-21 TASK 853 34-21 TASK 854 34-21 TASK 893 34-21 TASK 815 34-21 TASK 816 34-21 TASK 857 34-21 TASK 894 34-21 TASK 858 34-21 TASK 859 34-21 TASK 860 34-21 TASK 862 34-21 TASK 895 34-21 TASK 864 34-21 TASK 865 34-21 TASK 869 34-21 TASK 896 34-21 TASK 870 34-21 TASK 871 34-21 TASK 874 34-21 TASK 898 34-21 TASK 871 52-11 TASK 828 52-11 TASK 838

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 41	DOOR FLIGHT LOCK 4L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		52-21410	52-11 TASK 846
		52-21640	52-11 TASK 842
		52-21720	52-11 TASK 844
		52-22240	52-11 TASK 852
		52-22250	52-11 TASK 852
		52-23030	52-11 TASK 854
527 044 42	DOOR FLIGHT LOCK 4R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	21-16205	21-25 TASK 823
		23-81001	23-91 TASK 801
		23-81002	23-91 TASK 802
		23-81003	23-91 TASK 803
		23-81004	23-91 TASK 804
		23-81006	23-91 TASK 806
		24-11784	24-51 TASK 836
		24-12057	24-08 TASK 836
		24-12122	24-08 TASK 835
		24-12124	24-51 TASK 840
		24-12125	24-51 TASK 841
		24-12126	24-51 TASK 841
		24-12127	24-51 TASK 842
		24-12800	24-08 TASK 805
		24-12801	24-08 TASK 805
		24-18802	24-09 TASK 807
		27-14018	27-02 TASK 813
		27-14019	27-02 TASK 941
		27-14020	27-02 TASK 942
		27-14025	27-02 TASK 943
27-14026	27-02 TASK 944		
27-14027	27-02 TASK 945		

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 146
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 42	DOOR FLIGHT LOCK 4R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 27-14030 27-14031 27-14032 27-14033 27-15100 27-15101 27-15102 27-18811 27-18822 27-18833 27-19101 27-19201 27-19301 30-36121 30-36122 30-36123 30-36641 30-36642 30-36643 31-52013 31-52101 31-54013 31-54101 31-56014 31-56102 31-56104 31-58014 31-58102 31-69101 31-69102 31-69117	27-02 TASK 905 27-02 TASK 906 27-02 TASK 907 27-02 TASK 908 27-02 TASK 946 27-02 TASK 947 27-02 TASK 948 27-02 TASK 901 27-02 TASK 919 27-02 TASK 920 27-02 TASK 974 27-02 TASK 979 27-02 TASK 983 30-31 TASK 801 30-31 TASK 802 30-31 TASK 803 30-31 TASK 807 30-31 TASK 808 30-31 TASK 809 31-43 TASK 866 31-41 TASK 817 31-43 TASK 868 31-41 TASK 834 31-43 TASK 871 31-41 TASK 845 31-45 TASK 811 31-43 TASK 873 31-41 TASK 853 31-42 TASK 801 31-42 TASK 801 31-42 TASK 806

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 42	DOOR FLIGHT LOCK 4R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 31-69118 31-69201 31-69202 31-69219 31-69220 31-69301 31-69302 31-69317 31-69318 32-21000 32-21001 32-21100 32-21101 32-21300 32-21301 32-22000 32-22001 32-22100 32-22101 32-28801 32-28802 32-71091 32-71092 32-71131 32-71140 32-71150 32-71161 32-71162 32-71242 32-71252 32-71262	31-42 TASK 806 31-42 TASK 809 31-42 TASK 809 31-42 TASK 814 31-42 TASK 814 31-42 TASK 817 31-42 TASK 817 31-42 TASK 822 31-42 TASK 822 32-09 TASK 807 32-09 TASK 808 32-09 TASK 802 32-09 TASK 801 32-09 TASK 803 32-09 TASK 804 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 821 32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 811 32-07 TASK 817 32-07 TASK 815 32-07 TASK 811 32-07 TASK 813 32-07 TASK 815 32-07 TASK 818 32-07 TASK 813

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 42	DOOR FLIGHT LOCK 4R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-71271 32-71272 32-71280 32-71282 32-71461 32-71462 32-71501 32-71502 32-72091 32-72092 32-72111 32-72112 32-72131 32-72132 32-72161 32-72162 32-72301 32-72302 32-73461 32-73462 32-79426 32-79626 34-25101 34-25102 34-25103 34-25201 34-25202 34-25203 34-26101 34-26102 34-26103	32-07 TASK 812 32-07 TASK 814 32-07 TASK 809 32-07 TASK 810 32-07 TASK 811 32-07 TASK 813 32-07 TASK 811 32-07 TASK 813 32-07 TASK 889 32-07 TASK 890 32-07 TASK 889 32-07 TASK 890 32-07 TASK 835 32-07 TASK 835 32-07 TASK 840 32-07 TASK 841 32-07 TASK 830 32-07 TASK 832 32-07 TASK 910 32-07 TASK 911 32-07 TASK 857 32-07 TASK 870 34-11 TASK 801 34-11 TASK 802 34-11 TASK 803 34-11 TASK 804 34-11 TASK 805 34-11 TASK 806 34-21 TASK 810 34-21 TASK 839 34-21 TASK 840

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 42	DOOR FLIGHT LOCK 4R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		34-26201	34-21 TASK 843
		34-26202	34-21 TASK 844
		34-26203	34-21 TASK 845
		34-28801	34-21 TASK 848
		34-28810	34-21 TASK 849
		34-28813	34-21 TASK 813
		34-28816	34-21 TASK 814
		34-28824	34-21 TASK 850
		34-28827	34-21 TASK 851
		34-28830	34-21 TASK 852
		34-28835	34-21 TASK 853
		34-28838	34-21 TASK 854
		34-29101	34-21 TASK 893
		34-29102	34-21 TASK 815
		34-29105	34-21 TASK 816
		34-29115	34-21 TASK 857
		34-29120	34-21 TASK 894
		34-29201	34-21 TASK 858
		34-29202	34-21 TASK 859
		34-29204	34-21 TASK 860
		34-29216	34-21 TASK 862
		34-29301	34-21 TASK 895
		34-29303	34-21 TASK 864
		34-29306	34-21 TASK 865
		34-29317	34-21 TASK 869
		34-29320	34-21 TASK 896
		34-30700	34-21 TASK 870
		34-30712	34-21 TASK 871
		34-38801	34-21 TASK 874
		34-38820	34-21 TASK 898
		34-39201	34-21 TASK 871

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 044 42	DOOR FLIGHT LOCK 4R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 52-17004 52-21350 52-21460 52-21650 52-21730 52-22280 52-22290 52-23080	52-11 TASK 828 52-11 TASK 838 52-11 TASK 846 52-11 TASK 842 52-11 TASK 844 52-11 TASK 852 52-11 TASK 852 52-11 TASK 854
527 045 41	DOOR FLIGHT LOCK 5L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	23-81001 23-81002 23-81003 23-81004 23-81006 24-11784 24-11790 24-11793 24-11795 24-11796 24-12124 24-12125 24-12126 24-12127 24-18801 24-78861 27-14018 27-14019 27-14020 27-14025	23-91 TASK 801 23-91 TASK 802 23-91 TASK 803 23-91 TASK 804 23-91 TASK 806 24-51 TASK 836 24-08 TASK 833 24-08 TASK 834 24-08 TASK 804 24-08 TASK 804 24-51 TASK 840 24-51 TASK 841 24-51 TASK 841 24-51 TASK 842 24-09 TASK 806 24-08 TASK 861 27-02 TASK 813 27-02 TASK 941 27-02 TASK 942 27-02 TASK 943

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 41	DOOR FLIGHT LOCK 5L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 27-14026 27-14027 27-14030 27-14031 27-14032 27-14033 27-15100 27-15101 27-15102 27-18811 27-18822 27-18833 27-19101 27-19201 27-19301 30-36121 30-36122 30-36123 30-36641 30-36642 30-36643 31-52013 31-52101 31-54013 31-54101 31-56014 31-56102 31-56104 31-58014 31-58102 31-69101	27-02 TASK 944 27-02 TASK 945 27-02 TASK 905 27-02 TASK 906 27-02 TASK 907 27-02 TASK 908 27-02 TASK 946 27-02 TASK 947 27-02 TASK 948 27-02 TASK 901 27-02 TASK 919 27-02 TASK 920 27-02 TASK 974 27-02 TASK 979 27-02 TASK 983 30-31 TASK 801 30-31 TASK 802 30-31 TASK 803 30-31 TASK 807 30-31 TASK 808 30-31 TASK 809 31-43 TASK 866 31-41 TASK 817 31-43 TASK 868 31-41 TASK 834 31-43 TASK 871 31-41 TASK 845 31-45 TASK 811 31-43 TASK 873 31-41 TASK 853 31-42 TASK 801

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 41	DOOR FLIGHT LOCK 5L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 31-69102 31-69117 31-69118 31-69201 31-69202 31-69219 31-69220 31-69301 31-69302 31-69317 31-69318 32-21000 32-21001 32-21100 32-21101 32-21300 32-21301 32-22000 32-22001 32-22100 32-22101 32-28801 32-28802 32-71091 32-71092 32-71131 32-71140 32-71150 32-71161 32-71162 32-71242	31-42 TASK 801 31-42 TASK 806 31-42 TASK 806 31-42 TASK 809 31-42 TASK 809 31-42 TASK 814 31-42 TASK 814 31-42 TASK 817 31-42 TASK 817 31-42 TASK 822 31-42 TASK 822 32-09 TASK 807 32-09 TASK 808 32-09 TASK 802 32-09 TASK 801 32-09 TASK 803 32-09 TASK 804 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 821 32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 811 32-07 TASK 817 32-07 TASK 815 32-07 TASK 811 32-07 TASK 813 32-07 TASK 815

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 41	DOOR FLIGHT LOCK 5L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-71252 32-71262 32-71271 32-71272 32-71280 32-71282 32-71288 32-71289 32-71293 32-71294 32-71295 32-71296 32-71297 32-71298 32-71461 32-71462 32-71501 32-71502 32-72091 32-72092 32-72111 32-72112 32-72131 32-72132 32-72161 32-72162 32-72301 32-72302 32-73461 32-73462 32-79424	32-07 TASK 818 32-07 TASK 813 32-07 TASK 812 32-07 TASK 814 32-07 TASK 809 32-07 TASK 810 32-07 TASK 822 32-07 TASK 822 32-07 TASK 821 32-07 TASK 821 32-07 TASK 822 32-07 TASK 823 32-07 TASK 823 32-07 TASK 811 32-07 TASK 813 32-07 TASK 811 32-07 TASK 813 32-07 TASK 889 32-07 TASK 890 32-07 TASK 889 32-07 TASK 890 32-07 TASK 835 32-07 TASK 835 32-07 TASK 840 32-07 TASK 841 32-07 TASK 830 32-07 TASK 832 32-07 TASK 910 32-07 TASK 911 32-07 TASK 853

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 41	DOOR FLIGHT LOCK 5L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-79622 34-25101 34-25102 34-25103 34-25201 34-25202 34-25203 34-26101 34-26102 34-26103 34-26201 34-26202 34-26203 34-28801 34-28810 34-28813 34-28816 34-28824 34-28827 34-28830 34-28835 34-28838 34-29101 34-29102 34-29105 34-29115 34-29120 34-29201 34-29202 34-29204 34-29216	32-07 TASK 865 34-11 TASK 801 34-11 TASK 802 34-11 TASK 803 34-11 TASK 804 34-11 TASK 805 34-11 TASK 806 34-21 TASK 810 34-21 TASK 839 34-21 TASK 840 34-21 TASK 843 34-21 TASK 844 34-21 TASK 845 34-21 TASK 848 34-21 TASK 849 34-21 TASK 813 34-21 TASK 814 34-21 TASK 850 34-21 TASK 851 34-21 TASK 852 34-21 TASK 853 34-21 TASK 854 34-21 TASK 893 34-21 TASK 815 34-21 TASK 816 34-21 TASK 857 34-21 TASK 894 34-21 TASK 858 34-21 TASK 859 34-21 TASK 860 34-21 TASK 862

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 41	DOOR FLIGHT LOCK 5L (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		34-29301	34-21 TASK 895
		34-29303	34-21 TASK 864
		34-29306	34-21 TASK 865
		34-29317	34-21 TASK 869
		34-29320	34-21 TASK 896
		34-30700	34-21 TASK 870
		34-30712	34-21 TASK 871
		34-38801	34-21 TASK 874
		34-38820	34-21 TASK 898
		34-39201	34-21 TASK 871
		52-17003	52-11 TASK 828
		52-21360	52-11 TASK 841
		52-21420	52-11 TASK 847
		52-21645	52-11 TASK 843
		52-21725	52-11 TASK 845
		52-22304	52-11 TASK 853
52-22306	52-11 TASK 853		
52-23040	52-11 TASK 855		
527 045 42	DOOR FLIGHT LOCK 5R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	21-16205	21-25 TASK 823
		23-81001	23-91 TASK 801
		23-81002	23-91 TASK 802
		23-81003	23-91 TASK 803
		23-81004	23-91 TASK 804
		23-81006	23-91 TASK 806
		24-11784	24-51 TASK 836
		24-11790	24-08 TASK 833
		24-11793	24-08 TASK 834
		24-11795	24-08 TASK 804

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 42	DOOR FLIGHT LOCK 5R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 24-11796 24-12057 24-12122 24-12124 24-12125 24-12126 24-12127 24-12800 24-12801 24-18801 24-18802 24-78861 27-14018 27-14019 27-14020 27-14025 27-14026 27-14027 27-14030 27-14031 27-14032 27-14033 27-15100 27-15101 27-15102 27-18811 27-18822 27-18833 27-19101 27-19201 27-19301	24-08 TASK 804 24-08 TASK 836 24-08 TASK 835 24-51 TASK 840 24-51 TASK 841 24-51 TASK 841 24-51 TASK 842 24-08 TASK 805 24-08 TASK 805 24-09 TASK 806 24-09 TASK 807 24-08 TASK 861 27-02 TASK 813 27-02 TASK 941 27-02 TASK 942 27-02 TASK 943 27-02 TASK 944 27-02 TASK 945 27-02 TASK 905 27-02 TASK 906 27-02 TASK 907 27-02 TASK 908 27-02 TASK 946 27-02 TASK 947 27-02 TASK 948 27-02 TASK 901 27-02 TASK 919 27-02 TASK 920 27-02 TASK 974 27-02 TASK 979 27-02 TASK 983

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 42	DOOR FLIGHT LOCK 5R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 30-36121 30-36122 30-36123 30-36641 30-36642 30-36643 31-52013 31-52101 31-54013 31-54101 31-56014 31-56102 31-56104 31-58014 31-58102 31-69101 31-69102 31-69117 31-69118 31-69201 31-69202 31-69219 31-69220 31-69301 31-69302 31-69317 31-69318 32-21000 32-21001 32-21100 32-21101	30-31 TASK 801 30-31 TASK 802 30-31 TASK 803 30-31 TASK 807 30-31 TASK 808 30-31 TASK 809 31-43 TASK 866 31-41 TASK 817 31-43 TASK 868 31-41 TASK 834 31-43 TASK 871 31-41 TASK 845 31-45 TASK 811 31-43 TASK 873 31-41 TASK 853 31-42 TASK 801 31-42 TASK 801 31-42 TASK 806 31-42 TASK 806 31-42 TASK 809 31-42 TASK 809 31-42 TASK 814 31-42 TASK 814 31-42 TASK 817 31-42 TASK 817 31-42 TASK 822 31-42 TASK 822 32-09 TASK 807 32-09 TASK 808 32-09 TASK 802 32-09 TASK 801

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 42	DOOR FLIGHT LOCK 5R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-21300 32-21301 32-22000 32-22001 32-22100 32-22101 32-28801 32-28802 32-71091 32-71092 32-71131 32-71140 32-71150 32-71161 32-71162 32-71242 32-71252 32-71262 32-71271 32-71272 32-71280 32-71282 32-71288 32-71289 32-71293 32-71294 32-71295 32-71296 32-71297 32-71298 32-71461	32-09 TASK 803 32-09 TASK 804 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 809 32-09 TASK 821 32-09 TASK 822 32-07 TASK 815 32-07 TASK 815 32-07 TASK 811 32-07 TASK 817 32-07 TASK 815 32-07 TASK 811 32-07 TASK 813 32-07 TASK 815 32-07 TASK 818 32-07 TASK 813 32-07 TASK 812 32-07 TASK 814 32-07 TASK 809 32-07 TASK 810 32-07 TASK 822 32-07 TASK 822 32-07 TASK 821 32-07 TASK 821 32-07 TASK 822 32-07 TASK 822 32-07 TASK 823 32-07 TASK 823 32-07 TASK 811

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 42	DOOR FLIGHT LOCK 5R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 32-71462 32-71501 32-72091 32-72092 32-72111 32-72112 32-72131 32-72132 32-72161 32-72162 32-72301 32-72302 32-73461 32-73462 32-79424 32-79426 32-79622 32-79626 34-25101 34-25102 34-25103 34-25201 34-25202 34-25203 34-26101 34-26102 34-26103 34-26201 34-26202 34-26203 34-28801	32-07 TASK 813 32-07 TASK 811 32-07 TASK 889 32-07 TASK 890 32-07 TASK 889 32-07 TASK 890 32-07 TASK 835 32-07 TASK 835 32-07 TASK 840 32-07 TASK 841 32-07 TASK 830 32-07 TASK 832 32-07 TASK 910 32-07 TASK 911 32-07 TASK 853 32-07 TASK 857 32-07 TASK 865 32-07 TASK 870 34-11 TASK 801 34-11 TASK 802 34-11 TASK 803 34-11 TASK 804 34-11 TASK 805 34-11 TASK 806 34-21 TASK 810 34-21 TASK 839 34-21 TASK 840 34-21 TASK 843 34-21 TASK 844 34-21 TASK 845 34-21 TASK 848

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 42	DOOR FLIGHT LOCK 5R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 34-28810 34-28813 34-28816 34-28824 34-28827 34-28830 34-28835 34-28838 34-29101 34-29102 34-29105 34-29115 34-29120 34-29201 34-29202 34-29204 34-29216 34-29301 34-29303 34-29306 34-29317 34-29320 34-30700 34-30712 34-38801 34-38820 34-39201 52-17004 52-21370 52-21470 52-21655	34-21 TASK 849 34-21 TASK 813 34-21 TASK 814 34-21 TASK 850 34-21 TASK 851 34-21 TASK 852 34-21 TASK 853 34-21 TASK 854 34-21 TASK 893 34-21 TASK 815 34-21 TASK 816 34-21 TASK 857 34-21 TASK 894 34-21 TASK 858 34-21 TASK 859 34-21 TASK 860 34-21 TASK 862 34-21 TASK 895 34-21 TASK 864 34-21 TASK 865 34-21 TASK 869 34-21 TASK 896 34-21 TASK 870 34-21 TASK 871 34-21 TASK 874 34-21 TASK 898 34-21 TASK 871 52-11 TASK 828 52-11 TASK 841 52-11 TASK 847 52-11 TASK 843

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 045 42	DOOR FLIGHT LOCK 5R (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		52-21735	52-11 TASK 845
		52-22314	52-11 TASK 853
		52-22316	52-11 TASK 853
		52-23090	52-11 TASK 855
527 051 00	DOOR FWD CARGO (EICAS CAUTION)	32-71282	32-07 TASK 810
		52-11240	52-34 TASK 806
		52-11270	52-34 TASK 806
		52-11500	52-34 TASK 807
		52-11510	52-34 TASK 808
		52-11540	52-34 TASK 809
		52-12320	52-34 TASK 811
		52-12330	52-34 TASK 811
		52-12340	52-34 TASK 811
		52-21240	52-34 TASK 835
		52-21270	52-34 TASK 835
		52-21500	52-34 TASK 836
		52-21510	52-34 TASK 837
		52-21540	52-34 TASK 838
		52-22320	52-34 TASK 839
		52-22330	52-34 TASK 839
527 052 00	DOOR FWD CARGO IND (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	32-71282	32-07 TASK 810
		32-72220	32-07 TASK 835
		32-72391	32-07 TASK 829
		32-72392	32-07 TASK 831
		32-72400	32-07 TASK 829
		32-72410	32-07 TASK 831
		52-11240	52-34 TASK 806

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 162
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 052 00	DOOR FWD CARGO IND (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued)	
		52-11270	52-34 TASK 806
		52-11500	52-34 TASK 807
		52-11510	52-34 TASK 808
		52-11540	52-34 TASK 809
		52-12320	52-34 TASK 811
		52-12330	52-34 TASK 811
		52-12340	52-34 TASK 811
		52-21240	52-34 TASK 835
		52-21270	52-34 TASK 835
		52-21500	52-34 TASK 836
		52-21510	52-34 TASK 837
		52-21540	52-34 TASK 838
		52-22320	52-34 TASK 839
		52-22330	52-34 TASK 839
52-22340	52-34 TASK 839		
527 053 00	DOOR AFT CARGO (EICAS CAUTION)	32-71282	32-07 TASK 810
		32-71392	32-07 TASK 879
527 054 00	DOOR AFT CARGO (EICAS ADVISORY)	32-71282	32-07 TASK 810
		32-71392	32-07 TASK 879
		52-11520	52-35 TASK 806
		52-11530	52-35 TASK 807
		52-11970	52-35 TASK 808
		52-11980	52-35 TASK 808
		52-21520	52-35 TASK 829
		52-21530	52-35 TASK 830
		52-21970	52-35 TASK 832
		52-21980	52-35 TASK 832

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 163
Sep 05/2015



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 055 00	DOOR AFT CARGO ARMED (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. <u>NOTE:</u> AIMS CAN LATCH THIS MESSAGE.	32-71282 52-11530 52-11930 52-21530 52-21930	32-07 TASK 810 52-35 TASK 807 52-35 TASK 823 52-35 TASK 830 52-35 TASK 831
527 056 00	DOOR AFT CARGO IND (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. <u>NOTE:</u> AIMS CAN LATCH THIS MESSAGE.	32-71282 32-71392 32-72220 32-72391 32-72392 32-72400 32-72410	32-07 TASK 810 32-07 TASK 879 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831
527 057 00	DOOR AFT CARGO IND (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. <u>NOTE:</u> AIMS CAN LATCH THIS MESSAGE.	32-71392 32-72220 32-72391 32-72392 32-72400 32-72410 52-11210 52-11220 52-11520 52-11530 52-11970 52-11980 52-21210	32-07 TASK 879 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831 52-35 TASK 805 52-35 TASK 805 52-35 TASK 806 52-35 TASK 807 52-35 TASK 808 52-35 TASK 808 52-35 TASK 828

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 164
Sep 05/2015



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 057 00	DOOR AFT CARGO IND (EICAS STATUS) Before you do any task listed here, see FIM 52-98 TASK 802. NOTE: AIMS CAN LATCH THIS MESSAGE.	(continued) 52-21220 52-21520 52-21530 52-21970 52-21980	52-35 TASK 828 52-35 TASK 829 52-35 TASK 830 52-35 TASK 832 52-35 TASK 832
527 058 00	DOOR BULK CARGO (EICAS ADVISORY)	32-71282 NONE	32-07 TASK 810 52-36 TASK 804
527 061 00	DOOR E/E ACCESS (EICAS ADVISORY)	32-71282 52-21490 NONE	32-07 TASK 810 52-48 TASK 805 52-48 TASK 803
527 062 00	DOOR FWD ACCESS (EICAS ADVISORY)	32-71282 52-21480 NONE	32-07 TASK 810 52-48 TASK 804 52-48 TASK 803
527 071 41	DOOR WING SLIDE L (EICAS ADVISORY)	32-71230 32-71280 32-71581 32-71582 32-71591 32-71592 52-11892 52-11910 52-12350 52-21892 52-21910 52-22350	32-07 TASK 815 32-07 TASK 809 32-07 TASK 811 32-07 TASK 813 32-07 TASK 811 32-07 TASK 813 52-11 TASK 823 52-11 TASK 824 52-11 TASK 825 52-11 TASK 835 52-11 TASK 836 52-11 TASK 837
527 071 42	DOOR WING SLIDE R (EICAS ADVISORY)	32-71282 32-72260 32-72461 32-72462 32-72471 32-72472	32-07 TASK 810 32-07 TASK 835 32-07 TASK 829 32-07 TASK 831 32-07 TASK 829 32-07 TASK 831

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 071 42	DOOR WING SLIDE R (EICAS ADVISORY)	(continued)	
		52-11894	52-11 TASK 823
		52-11920	52-11 TASK 824
		52-21894	52-11 TASK 835
		52-21920	52-11 TASK 836
527 072 41	DOOR WING SLIDE L (EICAS STATUS)	52-22360	52-11 TASK 837
		32-71230	32-07 TASK 815
		32-71280	32-07 TASK 809
		32-71282	32-07 TASK 810
		32-71581	32-07 TASK 811
		32-71582	32-07 TASK 813
		32-71591	32-07 TASK 811
		32-71592	32-07 TASK 813
		52-11892	52-11 TASK 823
		52-11910	52-11 TASK 824
		52-12350	52-11 TASK 825
		52-21892	52-11 TASK 835
		52-21910	52-11 TASK 836
527 072 42	DOOR WING SLIDE R (EICAS STATUS)	52-22350	52-11 TASK 837
		32-71282	32-07 TASK 810
		32-72260	32-07 TASK 835
		32-72461	32-07 TASK 829
		32-72462	32-07 TASK 831
		32-72471	32-07 TASK 829
		32-72472	32-07 TASK 831
		52-11894	52-11 TASK 823
		52-11920	52-11 TASK 824
		52-21894	52-11 TASK 835
		52-21920	52-11 TASK 836
527 073 41	DOOR WING SLIDE LK L (EICAS STATUS)	52-22360	52-11 TASK 837
		32-71230	32-07 TASK 815
		32-71280	32-07 TASK 809
		32-71581	32-07 TASK 811
		32-71582	32-07 TASK 813
		32-71591	32-07 TASK 811
		32-71592	32-07 TASK 813

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX



**777-200/300
FAULT ISOLATION MANUAL**

FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
527 073 41	DOOR WING SLIDE LK L (EICAS STATUS)	(continued)	
		52-11892	52-11 TASK 823
		52-11910	52-11 TASK 824
		52-12350	52-11 TASK 825
		52-21892	52-11 TASK 835
		52-21910	52-11 TASK 836
527 073 42	DOOR WING SLIDE LK R (EICAS STATUS)	52-22350	52-11 TASK 837
		32-71282	32-07 TASK 810
		32-72260	32-07 TASK 835
		32-72461	32-07 TASK 829
		32-72462	32-07 TASK 831
		32-72471	32-07 TASK 829
		32-72472	32-07 TASK 831
		52-11894	52-11 TASK 823
		52-11920	52-11 TASK 824
		52-21894	52-11 TASK 835
527 497 00	DOORS AUTO (EICAS MEMO)		52-11 TASK 836
			52-11 TASK 837
527 498 00	DOORS MANUAL (EICAS MEMO)		52-11 TASK 819
527 499 00	DOORS AUTO/MANUAL (EICAS MEMO)		52-11 TASK 820
			52-11 TASK 821

EFFECTIVITY
ARO ALL

52-FAULT CODE INDEX

D633W103-ARO

Page 167
Sep 05/2015



**777-200/300
FAULT ISOLATION MANUAL**

MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
52-11000	Prox Snsr Latch Range Fwd Cargo Door circuit is open or shorted.	52-34 TASK 801
52-11010	Prox Snsr Unlatched Fwd Cargo Door circuit is open or shorted.	52-34 TASK 802
52-11020	Prox Snsr Up Fwd Cargo Door circuit is open or shorted.	52-34 TASK 803
52-11030	Prox Snsr Handle Unlocked Fwd Cargo Door circuit is open or shorted.	52-34 TASK 804
52-11040	Prox Snsr Latched Fwd Cargo Door circuit is open or shorted.	52-34 TASK 805
52-11050	Prox Snsr Open Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 801
52-11060	Prox Snsr Lifted Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 802
52-11070	Prox Snsr Latched Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 803
52-11080	Prox Snsr Down Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 804
52-11190	Target Down Aft Small Cargo Door is out of position.	52-35 TASK 805
52-11200	Target Latched Aft Small Cargo Door is out of position.	52-35 TASK 805
52-11210*	Target Lifted Aft Small Cargo Door is out of position.	52-35 TASK 805
52-11220*	Target Open Aft Small Cargo Door is out of position.	52-35 TASK 805
52-11230	Target Handle Unlocked Fwd Cargo Door is out of position.	52-34 TASK 806
52-11240*	Target Latch Range Fwd Cargo Door is out of position.	52-34 TASK 806
52-11250	Target Latched Fwd Cargo Door is out of position.	52-34 TASK 806
52-11260	Target Unlatched Fwd Cargo Door is out of position.	52-34 TASK 806
52-11270*	Target Up Fwd Cargo Door is out of position.	52-34 TASK 806
52-11500*	Prox Snsr Closed Fwd Cargo Door circuit is open or shorted.	52-34 TASK 807
52-11510*	Prox Snsr Locked Fwd Cargo Door circuit is open or shorted.	52-34 TASK 808
52-11520*	Prox Snsr Closed Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 806
52-11530*	Prox Snsr Latched & Locked Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 807
52-11540*	Prox Snsr Latched Fwd Cargo Door circuit is open or shorted.	52-34 TASK 809
52-11892	Prox Snsr Left Slide Comp Door Closed circuit is open or shorted.	52-11 TASK 823
52-11894	Prox Snsr Right Slide Comp Door Closed circuit is open or shorted.	52-11 TASK 823
52-11900	CCA, Proximity in PSEU 2 has a discrete input fault.	52-36 TASK 801
52-11910	CCA, Proximity in PSEU 1 has a discrete input fault.	52-11 TASK 824

*If the MAT shows LATCHED for the correlated EICAS message, then you must erase the EICAS message after you complete the FIM task.

EFFECTIVITY
ARO ALL

52-MAINT MSG INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
52-11920	CCA, Proximity in PSEU 2 has a discrete input fault.	52-11 TASK 824
52-11930*	CCA, Proximity in PSEU 2 has a fault.	52-35 TASK 823
52-11970*	Target Closed Aft Small Cargo Door is out of position.	52-35 TASK 808
52-11980*	Target Latched & Locked Aft Sm Cargo Dr is out of position.	52-35 TASK 808
52-12320*	Target Closed Fwd Cargo Door is out of position.	52-34 TASK 811
52-12330*	Target Latched Fwd Cargo Door is out of position.	52-34 TASK 811
52-12340*	Target Locked Fwd Cargo Door is out of position.	52-34 TASK 811
52-12350	Left Slide Comp Door Closed has a fault.	52-11 TASK 825
52-12360	Right Slide Comp Door Closed has a fault.	52-11 TASK 825
52-13100	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-34 TASK 826
52-13110	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-34 TASK 826
52-13120	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-34 TASK 827
52-13130	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-34 TASK 828
52-13140	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-34 TASK 826
52-13150	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-34 TASK 826
52-13160	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-34 TASK 829
52-13170	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-35 TASK 809
52-13180	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-35 TASK 809
52-13190	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-35 TASK 809
52-13200	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-35 TASK 811
52-13210	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-35 TASK 809
52-13220	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-35 TASK 809
52-13230	CCA, Cargo Door Driver in PSEU 1 analog output discrettes are connected incorrectly.	52-35 TASK 810
52-17003*	Relay (FLT LK CONT LEFT) in P110 is not in commanded position.	52-11 TASK 828

*If the MAT shows LATCHED for the correlated EICAS message, then you must erase the EICAS message after you complete the FIM task.

EFFECTIVITY
ARO ALL

52-MAINT MSG INDEX

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
52-17004*	Relay (FLT LK CONT RIGHT) in P210 is not in commanded position.	52-11 TASK 828
52-21000	Prox Snsr Latch Range Fwd Cargo Door circuit is open or shorted.	52-34 TASK 830
52-21010	Prox Snsr Unlatched Fwd Cargo Door circuit is open or shorted.	52-34 TASK 831
52-21020	Prox Snsr Up Fwd Cargo Door circuit is open or shorted.	52-34 TASK 832
52-21030	Prox Snsr Handle Unlocked Fwd Cargo Door circuit is open or shorted.	52-34 TASK 833
52-21040	Prox Snsr Latched Fwd Cargo Door circuit is open or shorted.	52-34 TASK 834
52-21050	Prox Snsr Open Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 824
52-21060	Prox Snsr Lifted Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 825
52-21070	Prox Snsr Latched Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 826
52-21080	Prox Snsr Down Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 827
52-21190	Target Down Aft Small Cargo Door is out of position.	52-35 TASK 828
52-21200	Target Latched Aft Small Cargo Door is out of position.	52-35 TASK 828
52-21210*	Target Lifted Aft Small Cargo Door is out of position.	52-35 TASK 828
52-21220*	Target Open Aft Small Cargo Door is out of position.	52-35 TASK 828
52-21230	Target Handle Unlocked Fwd Cargo Door is out of position.	52-34 TASK 835
52-21240*	Target Latch Range Fwd Cargo Door is out of position.	52-34 TASK 835
52-21250	Target Latched Fwd Cargo Door is out of position.	52-34 TASK 835
52-21260	Target Unlatched Fwd Cargo Door is out of position.	52-34 TASK 835
52-21270*	Target Up Fwd Cargo Door is out of position.	52-34 TASK 835
52-21280*	Passenger Entry Door 1L Actuator has a fault.	52-11 TASK 826
52-21290*	Passenger Entry Door 1R Actuator has a fault.	52-11 TASK 826
52-21300*	Passenger Entry Door 2L Actuator has a fault.	52-11 TASK 838
52-21310*	Passenger Entry Door 2R Actuator has a fault.	52-11 TASK 838
52-21320*	Passenger Entry Door 3L Actuator has a fault.	52-11 TASK 838
52-21325*	Passenger Entry Door 3L Actuator has a fault.	52-11 TASK 838
52-21330*	Passenger Entry Door 3R Actuator has a fault.	52-11 TASK 838
52-21335*	Passenger Entry Door 3R Actuator has a fault.	52-11 TASK 838
52-21340*	Passenger Entry Door 4L Actuator has a fault.	52-11 TASK 838
52-21350*	Passenger Entry Door 4R Actuator has a fault.	52-11 TASK 838

*If the MAT shows LATCHED for the correlated EICAS message, then you must erase the EICAS message after you complete the FIM task.

EFFECTIVITY
ARO ALL

52-MAINT MSG INDEX

D633W103-ARO

Page 103
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
52-21360*	Passenger Entry Door 5L Actuator has a fault.	52-11 TASK 841
52-21370*	Passenger Entry Door 5R Actuator has a fault.	52-11 TASK 841
52-21380*	Relay (Dr 1L Flight Lock) in P110 has a fault.	52-11 TASK 827
52-21390*	Relay (Dr 2L Flight Lock) in P110 has a fault.	52-11 TASK 846
52-21400*	Relay (Dr 3L Flight Lock) in P110 has a fault.	52-11 TASK 846
52-21410*	Relay (Dr 4L Flight Lock) in P110 has a fault.	52-11 TASK 846
52-21420*	Relay (Dr 5L Flight Lock) in P110 has a fault.	52-11 TASK 847
52-21430*	Relay (Dr 1R Flight Lock) in P210 has a fault.	52-11 TASK 827
52-21440*	Relay (Dr 2R Flight Lock) in P210 has a fault.	52-11 TASK 846
52-21450*	Relay (Dr 3R Flight Lock) in P210 has a fault.	52-11 TASK 846
52-21460*	Relay (Dr 4R Flight Lock) in P210 has a fault.	52-11 TASK 846
52-21470*	Relay (Dr 5R Flight Lock) in P210 has a fault.	52-11 TASK 847
52-21480	Prox Snsr Closed,Latched,&Locked Fwd Access circuit is open or shorted.	52-48 TASK 804
52-21490	Prox Snsr Closed,Latched,&Locked E/E Access circuit is open or shorted.	52-48 TASK 805
52-21500*	Prox Snsr Closed Fwd Cargo Door circuit is open or shorted.	52-34 TASK 836
52-21510*	Prox Snsr Locked Fwd Cargo Door circuit is open or shorted.	52-34 TASK 837
52-21520*	Prox Snsr Closed Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 829
52-21530*	Prox Snsr Latched & Locked Aft Small Cargo Door circuit is open or shorted.	52-35 TASK 830
52-21540*	Prox Snsr Latched Fwd Cargo Door circuit is open or shorted.	52-34 TASK 838
52-21580*	Prox Snsr Flight Lock Engaged (Door 1L) circuit is open or shorted.	52-11 TASK 829
52-21590*	Prox Snsr Flight Lock Engaged (Door 1R) circuit is open or shorted.	52-11 TASK 829
52-21600*	Prox Snsr Flight Lock Engaged (Door 2L) circuit is open or shorted.	52-11 TASK 842
52-21610*	Prox Snsr Flight Lock Engaged (Door 2R) circuit is open or shorted.	52-11 TASK 842
52-21620*	Prox Snsr Flight Lock Engaged (Door 3L) circuit is open or shorted.	52-11 TASK 842
52-21625*	Prox Snsr Flight Lock Engaged (Door 3L) circuit is open or shorted.	52-11 TASK 842
52-21630*	Prox Snsr Flight Lock Engaged (Door 3R) circuit is open or shorted.	52-11 TASK 842

*If the MAT shows LATCHED for the correlated EICAS message, then you must erase the EICAS message after you complete the FIM task.

EFFECTIVITY
ARO ALL

52-MAINT MSG INDEX

D633W103-ARO

Page 104
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
52-21635*	Prox Snsr Flight Lock Engaged (Door 3R) circuit is open or shorted.	52-11 TASK 842
52-21640*	Prox Snsr Flight Lock Engaged (Door 4L) circuit is open or shorted.	52-11 TASK 842
52-21645*	Prox Snsr Flight Lock Engaged (Door 5L) circuit is open or shorted.	52-11 TASK 843
52-21650*	Prox Snsr Flight Lock Engaged (Door 4R) circuit is open or shorted.	52-11 TASK 842
52-21655*	Prox Snsr Flight Lock Engaged (Door 5R) circuit is open or shorted.	52-11 TASK 843
52-21660*	Prox Snsr Flight Lock Disengaged (Door 1L) circuit is open or shorted.	52-11 TASK 830
52-21670*	Prox Snsr Flight Lock Disengaged (Door 1R) circuit is open or shorted.	52-11 TASK 830
52-21680*	Prox Snsr Flight Lock Disengaged (Door 2L) circuit is open or shorted.	52-11 TASK 844
52-21690*	Prox Snsr Flight Lock Disengaged (Door 2R) circuit is open or shorted.	52-11 TASK 844
52-21700*	Prox Snsr Flight Lock Disengaged (Door 3L) circuit is open or shorted.	52-11 TASK 844
52-21705*	Prox Snsr Flight Lock Disengaged (Door 3L) circuit is open or shorted.	52-11 TASK 844
52-21710*	Prox Snsr Flight Lock Disengaged (Door 3R) circuit is open or shorted.	52-11 TASK 844
52-21715*	Prox Snsr Flight Lock Disengaged (Door 3R) circuit is open or shorted.	52-11 TASK 844
52-21720*	Prox Snsr Flight Lock Disengaged (Door 4L) circuit is open or shorted.	52-11 TASK 844
52-21725*	Prox Snsr Flight Lock Disengaged (Door 5L) circuit is open or shorted.	52-11 TASK 845
52-21730*	Prox Snsr Flight Lock Disengaged (Door 4R) circuit is open or shorted.	52-11 TASK 844
52-21735*	Prox Snsr Flight Lock Disengaged (Door 5R) circuit is open or shorted.	52-11 TASK 845
52-21740*	Prox Snsr Closed & Latched (Door 1L) circuit is open or shorted.	52-11 TASK 831
52-21750*	Prox Snsr Locked (Door 1L) circuit is open or shorted.	52-11 TASK 832
52-21760*	Prox Snsr Locked (Door 1R) circuit is open or shorted.	52-11 TASK 832
52-21770*	Prox Snsr Locked (Door 2L) circuit is open or shorted.	52-11 TASK 850
52-21780*	Prox Snsr Locked (Door 2R) circuit is open or shorted.	52-11 TASK 850

*If the MAT shows LATCHED for the correlated EICAS message, then you must erase the EICAS message after you complete the FIM task.

EFFECTIVITY
ARO ALL

52-MAINT MSG INDEX

D633W103-ARO

Page 105
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
52-21790*	Prox Snsr Locked (Door 3L) circuit is open or shorted.	52-11 TASK 850
52-21795*	Prox Snsr Locked (Door 3L) circuit is open or shorted.	52-11 TASK 850
52-21800*	Prox Snsr Locked (Door 3R) circuit is open or shorted.	52-11 TASK 850
52-21805*	Prox Snsr Locked (Door 3R) circuit is open or shorted.	52-11 TASK 850
52-21810*	Prox Snsr Locked (Door 4L) circuit is open or shorted.	52-11 TASK 850
52-21815*	Prox Snsr Locked (Door 5L) circuit is open or shorted.	52-11 TASK 851
52-21820*	Prox Snsr Locked (Door 4R) circuit is open or shorted.	52-11 TASK 850
52-21825*	Prox Snsr Locked (Door 5R) circuit is open or shorted.	52-11 TASK 851
52-21830*	Prox Snsr Closed & Latched (Door 2L) circuit is open or shorted.	52-11 TASK 848
52-21840*	Prox Snsr Closed & Latched (Door 3L) circuit is open or shorted.	52-11 TASK 848
52-21850*	Prox Snsr Closed & Latched (Door 4L) circuit is open or shorted.	52-11 TASK 848
52-21855*	Prox Snsr Closed & Latched (Door 5L) circuit is open or shorted.	52-11 TASK 849
52-21860*	Prox Snsr Closed & Latched (Door 1R) circuit is open or shorted.	52-11 TASK 831
52-21870*	Prox Snsr Closed & Latched (Door 2R) circuit is open or shorted.	52-11 TASK 848
52-21880*	Prox Snsr Closed & Latched (Door 3R) circuit is open or shorted.	52-11 TASK 848
52-21890*	Prox Snsr Closed & Latched (Door 4R) circuit is open or shorted.	52-11 TASK 848
52-21892	Prox Snsr Left Slide Comp Door Closed circuit is open or shorted.	52-11 TASK 835
52-21894	Prox Snsr Right Slide Comp Door Closed circuit is open or shorted.	52-11 TASK 835
52-21895*	Prox Snsr Closed and Latched (Door 5R) circuit is open or shorted.	52-11 TASK 849
52-21900	CCA, Proximity in PSEU 2 has a discrete input fault.	52-36 TASK 805
52-21910	CCA, Prox Driver PSEU 1 has a discrete input fault.	52-11 TASK 836
52-21920	CCA, Proxi Driver in PSEU 2 has a discrete input fault.	52-11 TASK 836
52-21930*	CCA, Prox Driver in PSEU 2 has a fault.	52-35 TASK 831
52-21970*	Target Closed Aft Small Cargo Door is out of position.	52-35 TASK 832
52-21980*	Target Latched & Locked Aft Sm Cargo Dr is out of position.	52-35 TASK 832
52-21990	Target Closed & Latched (Door 1L) is out of position.	52-11 TASK 833
52-22000*	Target Flight Lock Disengaged (Door 1L) is out of position.	52-11 TASK 833

*If the MAT shows LATCHED for the correlated EICAS message, then you must erase the EICAS message after you complete the FIM task.

EFFECTIVITY
ARO ALL

52-MAINT MSG INDEX

D633W103-ARO

Page 106
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
52-22010*	Target Flight Lock Engaged (Door 1L) is out of position.	52-11 TASK 833
52-22020	Target Locked (Door 1L) is out of position.	52-11 TASK 833
52-22030	Target Closed & Latched (Door 1R) is out of position.	52-11 TASK 833
52-22040*	Target Flight Lock Disengaged (Door 1R) is out of position.	52-11 TASK 833
52-22050*	Target Flight Lock Engaged (Door 1R) is out of position.	52-11 TASK 833
52-22060	Target Locked (Door 1R) is out of position.	52-11 TASK 833
52-22070	Target Closed & Latched (Door 2L) is out of position.	52-11 TASK 852
52-22080*	Target Flight Lock Disengaged (Door 2L) is out of position.	52-11 TASK 852
52-22090*	Target Flight Lock Engaged (Door 2L) is out of position.	52-11 TASK 852
52-22100	Target Locked (Door 2L) is out of position.	52-11 TASK 852
52-22110	Target Closed & Latched (Door 2R) is out of position.	52-11 TASK 852
52-22120*	Target Flight Lock Disengaged (Door 2R) is out of position.	52-11 TASK 852
52-22130*	Target Flight Lock Engaged (Door 2R) is out of position.	52-11 TASK 852
52-22140	Target Locked (Door 2R) is out of position.	52-11 TASK 852
52-22150	Target Closed & Latched (Door 3L) is out of position.	52-11 TASK 852
52-22160*	Target Flight Lock Disengaged (Door 3L) is out of position.	52-11 TASK 852
52-22170*	Target Flight Lock Engaged (Door 3L) is out of position.	52-11 TASK 852
52-22180	Target Locked (Door 3L) is out of position.	52-11 TASK 852
52-22190	Target Closed & Latched (Door 3R) is out of position.	52-11 TASK 852
52-22200*	Target Flight Lock Disengaged (Door 3R) is out of position.	52-11 TASK 852
52-22210*	Target Flight Lock Engaged (Door 3R) is out of position.	52-11 TASK 852
52-22220	Target Locked (Door 3R) is out of position.	52-11 TASK 852
52-22230	Target Closed & Latched (Door 4L) is out of position.	52-11 TASK 852
52-22240*	Target Flight Lock Disengaged (Door 4L) is out of position.	52-11 TASK 852
52-22250*	Target Flight Lock Engaged (Door 4L) is out of position.	52-11 TASK 852
52-22260	Target Locked (Door 4L) is out of position.	52-11 TASK 852
52-22270	Target Closed & Latched (Door 4R) is out of position.	52-11 TASK 850
52-22280*	Target Flight Lock Disengaged (Door 4R) is out of position.	52-11 TASK 852
52-22290*	Target Flight Lock Engaged (Door 4R) is out of position.	52-11 TASK 852
52-22300	Target Locked (Door 4R) is out of position.	52-11 TASK 852
52-22302	Target Closed & Latched (Door 5L) is out of position.	52-11 TASK 853
52-22304*	Target Flight Lock Disengaged (Door 5L) is out of position.	52-11 TASK 853
52-22306*	Target Flight Lock Engaged (Door 5L) is out of position.	52-11 TASK 853
52-22308	Target Locked (Door 5L) is out of position.	52-11 TASK 853

*If the MAT shows LATCHED for the correlated EICAS message, then you must erase the EICAS message after you complete the FIM task.

EFFECTIVITY
ARO ALL

52-MAINT MSG INDEX

D633W103-ARO

Page 107
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
52-22312	Target Closed & Latched (Door 5R) is out of position.	52-11 TASK 853
52-22314*	Target Flight Lock Disengaged (Door 5R) is out of position.	52-11 TASK 853
52-22316*	Target Flight Lock Engaged (Door 5R) is out of position.	52-11 TASK 853
52-22318	Target Locked (Door 5R) is out of position.	52-11 TASK 853
52-22320*	Target Closed Fwd Cargo Door is out of position.	52-34 TASK 839
52-22330*	Target Latched Fwd Cargo Door is out of position.	52-34 TASK 839
52-22340*	Target Locked Fwd Cargo Door is out of position.	52-34 TASK 839
52-22350	Left Slide Comp Door Closed has a fault.	52-11 TASK 837
52-22360	Right Slide Comp Door Closed has a fault.	52-11 TASK 837
52-23000	CCA, Pass Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 834
52-23010*	CCA, Aux Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 854
52-23020*	CCA, Aux Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 854
52-23030*	CCA, Aux Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 854
52-23040*	CCA, Aux Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 855
52-23050	CCA, Aux Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 834
52-23060*	CCA, Aux Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 854
52-23070*	CCA, Aux Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 854
52-23080*	CCA, Aux Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 854
52-23090*	CCA, Aux Driver in PSEU 1 analog output discretes are connected incorrectly.	52-11 TASK 855
52-23100	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-34 TASK 840
52-23110	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-34 TASK 840
52-23120	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-34 TASK 841
52-23130	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-34 TASK 842
52-23140	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-34 TASK 840

*If the MAT shows LATCHED for the correlated EICAS message, then you must erase the EICAS message after you complete the FIM task.

EFFECTIVITY
ARO ALL

52-MAINT MSG INDEX

D633W103-ARO

Page 108
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
52-23150	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-34 TASK 840
52-23160	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-34 TASK 843
52-23170	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-35 TASK 833
52-23180	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-35 TASK 833
52-23190	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-35 TASK 833
52-23200	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-35 TASK 835
52-23210	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-35 TASK 833
52-23220	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-35 TASK 833
52-23230	CCA, Cargo Door Driver in PSEU 1 analog output discretes are connected incorrectly.	52-35 TASK 834

*If the MAT shows LATCHED for the correlated EICAS message, then you must erase the EICAS message after you complete the FIM task.

EFFECTIVITY
ARO ALL

52-MAINT MSG INDEX

D633W103-ARO

Page 109
May 05/2016



**777-200/300
FAULT ISOLATION MANUAL**

801. Passenger Entry Door has Noise - Fault Isolation

A. Description

- (1) This task is for troubleshooting the passenger entry door when there is noise caused by air leakage.

B. Fault Isolation Procedure

- (1) Do a leak check of the Passenger Entry Door Seal. This is the task:
 - (a) Passenger Entry Door Seals-Inspection/Check, AMM TASK 52-09-01-700-801.
 - 1) If leakage is found, then make repairs as necessary.
 - 2) If leakage is not found, you have corrected the problem.

———— **END OF TASK** ————

EFFECTIVITY
ARO ALL

52-09 TASK 801

D633W103-ARO

Page 201
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

811. PED Exterior Handle difficult to operate - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message for a passenger entry door (PED) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message for a PED does not show in the Present Leg Faults, then continue.
- (2) Do these checks of the passenger entry door (PED) operation:
 - (a) Exterior handle is hard to pull out.
 - (b) Exterior handle is hard to turn.
 - (c) Exterior handle will not stow.
 - (d) Exterior handle rotates without engaging.
- (3) If you were able to operate the door as specified in one of the steps above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in one of the steps above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Exterior handle is hard to pull out.
 - (a) Adjust the vent door interlock. To adjust it, do this task: Passenger Entry Door Adjustment, AMM TASK 52-12-00-820-801.
 - (b) Make sure the door is fully lowered. To do this, do this task: Passenger Entry Door Adjustment, AMM TASK 52-12-00-820-801.
 - (c) Remove the dirt and unwanted material from the handle box.
 - (d) Remove the ice from the handle box.
- (2) Exterior handle is hard to turn.
 - (a) Remove unwanted material from the hinge mechanism to allow the door to lower completely.
 - (b) Replace the gas spring.

These are the tasks:

Gas Spring Removal, AMM TASK 52-12-05-000-801,
Gas Spring Installation, AMM TASK 52-12-05-400-801.
 - (c) Replace the hinge mechanism.

These are the tasks:

Hinge Mechanism Removal, AMM TASK 52-12-06-000-801,
Hinge Mechanism Installation, AMM TASK 52-12-06-400-801.

EFFECTIVITY
ARO ALL

52-11 TASK 811

D633W103-ARO

Page 201
May 05/2016



777-200/300
FAULT ISOLATION MANUAL

- (d) Replace a latch crank that does not operate correctly. To replace it, These are the tasks:
Latch Mechanism Removal, AMM TASK 52-12-03-000-801,
Latch Mechanism Installation, AMM TASK 52-12-03-400-801.
- (3) Exterior handle will not stow.
 - (a) Make sure the handle is fully turned.
 - (b) Make sure the handle latch mechanism is not jammed.
 - 1) Make sure the arm/disarm cable moves freely.
 - (c) Remove the dirt and unwanted material from the handle box.
 - (d) Remove the ice from the handle box.
- (4) Exterior handle rotates without engaging.
 - (a) Inspect and service exterior handle (Passenger Entry Door Servicing, AMM TASK 12-21-20-640-801).

————— **END OF TASK** —————

812. PED difficult to open or close - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message for a passenger entry door (PED) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message for a PED does not show in the Present Leg Faults, then continue.
- (2) Do these checks of the passenger entry door (PED) operation:
 - (a) Door is hard to pull or push into or out of cutout.
 - (b) It is hard to engage the door in the guide tracks.
 - (c) Door does not rotate properly.
 - (d) Door does not close because it was lowered outside the cutout, and now the interior handle cannot be moved past the hinge arm.
- (3) If you were able to operate the door as specified in one of the steps above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in one of the steps above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Door is hard to pull or push into or out of the cutout.
 - (a) Look for unwanted material in the chain mechanism.

EFFECTIVITY
ARO ALL

52-11 TASKS 811-812

D633W103-ARO

Page 202
May 05/2016



**777-200/300
FAULT ISOLATION MANUAL**

- (b) Lubricate the linear lift bearing surfaces and chain mechanism.
 - (c) Adjust the chain so that it is not loose and does not twist and bind. To adjust the chain, do this task: Passenger Entry Door Adjustment, AMM TASK 52-12-00-820-801.
 - (d) Open the door and look for the linear lift piece that binds.
 - 1) Replace the piece that had the problem.
 - (e) Replace the hinge bearing.
 - (f) Replace the chain bearing.
- (2) Door does not want to engage in the guide tracks.
- (a) Open the door and look for the linear lift piece that binds.
 - 1) Replace the piece that had the problem.
 - (b) Adjust the chain. To adjust it, do this task: Passenger Entry Door Adjustment, AMM TASK 52-12-00-820-801.
 - (c) Make sure the door seal and depressor are not damaged.
- (3) Door is hard to rotate.
- (a) Look for unwanted material jammed in the chain mechanism.
 - (b) Lubricate the linear lift bearing surfaces and the chain mechanism.
 - (c) Replace the hinge bearing.
 - (d) Replace the chain bearing.
- (4) Door does not close because it was lowered outside the cutout, and now the interior handle cannot be moved past the hinge arm.
- (a) Remove the adjuster bolt from the programming mechanism (AMM TASK 52-12-00-820-801).
 - (b) Move the door away from the cutout.
 - (c) Raise the door with the interior handle.
 - (d) Reinstall the adjuster bolt.

————— **END OF TASK** —————

813. PED interior handle difficult to operate - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message for a passenger entry door (PED) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the PED does not show in the Present Leg Faults, then continue.
- (2) Do this check of the passenger entry door (PED) operation:
 - (a) Door handle is hard to turn.
- (3) If you were able to operate the door as specified in one of the steps above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in one of the steps above, then this is not the correct fault isolation task.

EFFECTIVITY
ARO ALL

52-11 TASKS 812-813

D633W103-ARO

Page 203
May 05/2016



**777-200/300
FAULT ISOLATION MANUAL**

- (a) Go to the Observed Faults List at the front of the FIM.
- (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
- (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Interior handle is hard to turn.
 - (a) Remove unwanted material from the hinge mechanism to allow the door to lower completely.
 - (b) Replace the gas spring.

These are the tasks:
Gas Spring Removal, AMM TASK 52-12-05-000-801,
Gas Spring Installation, AMM TASK 52-12-05-400-801.
 - (c) Replace the hinge mechanism.

These are the tasks:
Hinge Mechanism Removal, AMM TASK 52-12-06-000-801,
Hinge Mechanism Installation, AMM TASK 52-12-06-400-801.
 - (d) Replace the latch crank that does not operate correctly. To replace it,
These are the tasks:
Latch Mechanism Removal, AMM TASK 52-12-03-000-801,
Latch Mechanism Installation, AMM TASK 52-12-03-400-801.

————— **END OF TASK** —————

814. PED interior handle does not stay in the open or closed position - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message for a passenger entry door (PED) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message for a PED does not show in the Present Leg Faults, then continue.
- (2) Do this check of the passenger entry door (PED) operation:
 - (a) Door handle does not stay in the open or closed position.
- (3) If you were able to operate the door as specified in one of the steps above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in one of the steps above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

EFFECTIVITY
ARO ALL

52-11 TASKS 813-814

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

B. Fault Isolation Procedure

- (1) Interior handle does not stay in the open or closed position.
 - (a) Reconnect the gas spring to the door. To reconnect it, do this task: Gas Spring Installation, AMM TASK 52-12-05-400-801.
 - (b) Replace the gas spring.

These are the tasks:

Gas Spring Removal, AMM TASK 52-12-05-000-801,
Gas Spring Installation, AMM TASK 52-12-05-400-801.

————— **END OF TASK** —————

815. PED hinge cover does not stay in the correct position - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to a passenger entry door (PED) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the PED does not show in the Present Leg Faults, then continue.
- (2) Do this check of the passenger entry door (PED) operation:
 - (a) Door hinge cover does not stay in the correct position.
- (3) If you were able to operate the door as specified in one of the steps above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in one of the steps above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Door hinge cover does not stay in the correct position.
 - (a) Make sure the EPAS battery switch is not in the READY position.
 - (b) Make sure the door is fully lowered and latched.

————— **END OF TASK** —————

816. PED difficult to latch or unlatch - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to a passenger entry door (PED) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.

EFFECTIVITY ARO ALL

52-11 TASKS 814-816



**777-200/300
FAULT ISOLATION MANUAL**

- (b) If a maintenance message related to the PED does not show in the Present Leg Faults, then continue.
- (2) Do this check of the passenger entry door (PED) operation:
 - (a) It is necessary to use a high amount of force on the interior door handle to unlatch or latch.
 - (b) Vent door does not open or close.
 - (c) Flight lock mechanism is locked.
- (3) If you were able to operate the door as specified in one of the steps above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in one of the steps above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Necessary to use a high amount of force on the interior door handle to unlatch or latch.
 - (a) Remove unwanted material from the hinge mechanism to allow the door to lower completely.
 - (b) Replace the gas spring.
These are the tasks:
Gas Spring Removal, AMM TASK 52-12-05-000-801,
Gas Spring Installation, AMM TASK 52-12-05-400-801.
 - (c) Replace the hinge mechanism.
These are the tasks:
Hinge Mechanism Removal, AMM TASK 52-12-06-000-801,
Hinge Mechanism Installation, AMM TASK 52-12-06-400-801.
 - (d) Replace the latch crank that does not operate correctly. To replace it,
These are the tasks:
Latch Mechanism Removal, AMM TASK 52-12-03-000-801,
Latch Mechanism Installation, AMM TASK 52-12-03-400-801.
 - (e) Adjust the vent door. To adjust it, do this task: Passenger Entry Door Adjustment, AMM TASK 52-12-00-820-801.
 - (f) If the problem continues, replace the vent door.
These are the tasks:
Vent Door Removal, AMM TASK 52-12-04-000-801,
Vent Door Installation, AMM TASK 52-12-04-400-801.
- (2) Vent door does not open or close.
 - (a) Connect the vent door drive rod. To connect it, do this task: Vent Door Installation, AMM TASK 52-12-04-400-801.

EFFECTIVITY
ARO ALL

52-11 TASK 816

D633W103-ARO

Page 206
May 05/2016



**777-200/300
FAULT ISOLATION MANUAL**

- (b) Adjust the vent door. To adjust it, do this task: Passenger Entry Door Adjustment, AMM TASK 52-12-00-820-801.
- (c) Replace the vent door.
These are the tasks:
Vent Door Removal, AMM TASK 52-12-04-000-801,
Vent Door Installation, AMM TASK 52-12-04-400-801.
- (3) Flight Lock Mechanism is locked.
 - (a) Make sure the flight lock mechanism is connected and not damaged. To do this, do this task: Flight Lock Mechanism Installation, AMM TASK 52-12-26-400-802
 - (b) Replace the flight lock mechanism.
These are the tasks:
Flight Lock Mechanism Removal, AMM TASK 52-12-26-000-802,
Flight Lock Mechanism Installation, AMM TASK 52-12-26-400-802.

————— **END OF TASK** —————

817. PED Mode Select Handle Hard To Operate - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to a passenger entry door (PED) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the PED does not show in the Present Leg Faults, then continue.
- (2) Do this check of the passenger entry door (PED) operation:
 - (a) Make sure the mode select handle does not move to the AUTOMATIC/ARM or MANUAL/DISARM positions.
- (3) If you were able to operate the door as specified in one of the steps above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in one of the steps above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) The mode select handle does not move to the opposite position.
 - (a) Lower the door completely.
 - (b) Remove unwanted material in the handle mechanism to allow the door to be closed.
 - (c) Make sure the exterior handle is stowed.
 - (d) Adjust the Girt Bar Mechanism. To adjust it, do this task: Passenger Entry Door Adjustment, AMM TASK 52-12-00-820-801.

EFFECTIVITY
ARO ALL

52-11 TASKS 816-817

D633W103-ARO

Page 207
May 05/2016



777-200/300
FAULT ISOLATION MANUAL

- (e) Adjust the Pull Cable. To adjust it, do this task: Passenger Entry Door Adjustment, AMM TASK 52-12-00-820-801.
- (f) Adjust the Push/Pull Cable. To adjust it, do this task: Passenger Entry Door Adjustment, AMM TASK 52-12-00-820-801.

————— **END OF TASK** —————

819. EICAS Message DOORS AUTO - Fault Isolation

A. Description

- (1) This message shows when all of the passenger entry doors are in the automatic/arm mode.

B. Fault Isolation Procedure

- (1) No maintenance action is necessary.

————— **END OF TASK** —————

820. EICAS Message DOORS MANUAL - Fault Isolation

A. Description

- (1) This message shows when all of the passenger entry doors are in the manual/disarm mode.

B. Initial Evaluation

- (1) No maintenance action is necessary.

————— **END OF TASK** —————

821. EICAS Message DOORS AUTO/MANUAL - Fault Isolation

A. Description

- (1) This message shows when some passenger entry doors are in the automatic/arm mode and some passenger entry doors are in the manual/disarm mode.

B. Initial Evaluation

- (1) No maintenance action is necessary.

————— **END OF TASK** —————

823. Escape Slide Compartment Door - Closed Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-11892, 52-11894.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Prepare to do the procedure as follows:
 - (a) Do this task: Disarm the Off-Wing Escape System, AMM TASK 25-65-00-040-801.
 - (b) Do this task: Open the Escape Slide Compartment Door, AMM TASK 25-65-10-010-801.
- (2) Do a wiring check as follows:
 - (a) Disconnect the connector from the applicable closed proximity sensor.

EFFECTIVITY
ARO ALL

52-11 TASKS 817-823

D633W103-ARO

Page 208
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (b) Remove the applicable proximity sensor electronics unit (PSEU). To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
- (c) Do a wiring check between these pins of the connector for the closed proximity sensor, and the connector for the PSEU (WDM 52-71-20) (WDM 52-71-21):

**ESCAPE SLIDE COMPARTMENT DOOR -
CLOSED PROXIMITY SENSOR**

	S52208	PSEU 1 CONN & PSEU 2 CONN
	SENSOR CONN	
LEFT	DS52208	DM32021AA
	pin 2	pin A7
	pin 3	pin A8
RIGHT	DS52212	DM32025AA
	pin 2	pin A7
	pin 3	pin A8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the closed proximity sensor.
 - 3) Re-install the applicable PSEU. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the applicable PSEU. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the applicable closed proximity sensor. To replace it, do this task: Off-Wing Escape Slide Compartment Door Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-07-820-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the applicable circuit card in the PSEU.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the applicable PSEU.
These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

EFFECTIVITY
ARO ALL

52-11 TASK 823



777-200/300
FAULT ISOLATION MANUAL

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (6) Do these steps to complete the procedure.
 - (a) Do this task: Close the Escape Slide Compartment Door, AMM TASK 25-65-10-400-801.
 - (b) Do this task: Arm the Off-Wing Escape System, AMM TASK 25-65-00-440-801.

————— END OF TASK —————

824. Escape Slide Compartment Door - Latch Actuator Switch Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-11910, 52-11920.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Prepare for the procedure as follows:
 - (a) Open the access panel to get access to the latch actuator.
- (2) Do a check of the wiring as follows:
 - (a) Disconnect the connector from the applicable latch actuator.
NOTE: The closed switch is installed in the latch actuator.
 - (b) Remove the applicable proximity sensor electronics unit (PSEU). To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector for the latch actuator, and the connector for the PSEU (WDM 52-71-20) (WDM 52-71-21):

ESCAPE SLIDE COMPARTMENT DOOR - LATCH ACTUATOR CLOSED SWITCH

	S52210 CONN & S52214 CONN	PSEU 1 CONN & PSEU 2 CONN
LEFT	DS52210	DM32021AA
	pin 1	pin K5
RIGHT	DS52214	DM32025AA
	pin 1	pin K5

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the latch actuator.
 - 3) Re-install the applicable PSEU. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.

EFFECTIVITY ARO ALL

52-11 TASKS 823-824



**777-200/300
FAULT ISOLATION MANUAL**

- (f) Re-install the applicable PSEU. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the latch actuator. To replace it,
These are the tasks:
Latch Actuator Removal, AMM TASK 25-65-11-000-801,
Latch Actuator Installation, AMM TASK 25-65-11-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the applicable circuit card in the PSEU.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the applicable PSEU.
These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

825. Escape Slide Compartment Door - Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-12350, 52-12360.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this task: Disarm the Off-Wing Escape System, AMM TASK 25-65-00-040-801.
- (2) Do this task: Open the Escape Slide Compartment Door, AMM TASK 25-65-10-010-801.
- (3) Do a check of the applicable proximity sensor as follows:
 - (a) Look for a sensor actuator/deactuator tool on the sensor.
 - (b) Look for damage of the target or unwanted material near the sensor.
- (4) If there is unwanted material or damage, do these steps:
 - (a) Remove the unwanted material or the sensor actuator/deactuator.
 - (b) Replace the target if it is necessary.

EFFECTIVITY
ARO ALL

52-11 TASKS 824-825

D633W103-ARO

Page 211
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (c) Do the applicable steps in the procedure below to adjust the proximity sensor.
 - 1) Do this task: Off-Wing Escape Slide Compartment Door Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-07-820-801.
 - (d) Do this task: Close the Escape Slide Compartment Door, AMM TASK 25-65-10-400-801.
 - (e) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (5) Do this task: Arm the Off-Wing Escape System, AMM TASK 25-65-00-440-801.

————— **END OF TASK** —————

826. Door 1L/1R Flight Lock Actuator Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21280, 52-21290.

B. Description

- (1) 52-21280: Passenger Entry Door 1L Actuator has a problem.
- (2) 52-21290: Passenger Entry Door 1R Actuator has a problem.

C. Possible Causes

- (1) Wiring
- (2) Passenger Entry Door Actuator, M52101
- (3) Flight Lock Engaged Proximity Sensor
- (4) Flight Lock Disengaged Proximity Sensor

D. Related Data

- (1) WDM 52-11-12

E. Initial Evaluation

- (1) If the Maintenance Access Terminal (MAT) shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do a check of the Flight Lock Mechanism. This is the task:
 - Flight Lock Mechanism Check, AMM TASK 52-12-26-200-801
- (2) Do a check of the Flight Lock Control. This is the task:
 - Flight Lock Control Test, AMM TASK 52-12-26-740-801
- (a) If the Flight Lock engages, do these steps:
 - 1) Stop the MAT Ground Test.

EFFECTIVITY
ARO ALL

52-11 TASKS 825-826

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

- 2) Do this task: Door 1L/1R Flight Lock Engaged Proximity Sensor Problems - Fault Isolation, 52-11 TASK 829.
 - a) Do the Repair Confirmation at the end of this task.
- 3) Do this task: Door 1L/1R Flight Lock Disengaged Proximity Sensor Problems - Fault Isolation, 52-11 TASK 830.
 - a) Do the Repair Confirmation at the end of this task.
- (b) If the Flight Lock does not engage, then continue.
- (3) Do a wiring check as follows (WDM 52-11-12):
 - (a) Disconnect the connector from the applicable Flight Lock Actuator.
 - (b) Do a check for 28 VDC at pin 1 of the applicable Flight Lock Actuator connector.

NOTE: Measure the voltage before you stop the MAT Ground Test.

 - 1) If you find 28V DC, replace the applicable Flight Lock Actuator. These are the tasks:
 - Flight Lock Actuator Removal, AMM TASK 52-12-26-000-801
 - Flight Lock Actuator Installation, AMM TASK 52-12-26-400-801
 - a) Do the Repair Confirmation at the end of this task.
 - 2) If you do not find 28V DC, then continue.
 - (c) Disconnect the connector D21037 at the Right Power Management panel, P210.
 - (d) Do a wiring check between the Flight Lock Actuator and connector D21037 at the P210 Panel as follows (WDM 52-11-12):

DOOR 1L PED FLT LOCK ACT

M52101	P110 Panel
DM52101	D11037
pin 1	pin 2

DOOR 1R PED FLT LOCK ACT

M52101	P210 Panel
DM52101	D21037
pin 1	pin 9

- (e) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Flight Lock Actuator.
 - 3) Reconnect connector D11037 (D21037) to the applicable Left (Right) Power Management Panel, P110 (P210).
 - 4) Do the Repair Confirmation at the end of this task.
- (f) If you do not find a problem with the wiring, then continue.
 - 1) Reconnect the connector to the Flight Lock Actuator.
 - 2) Reconnect the applicable connector D11037 (D21037) to the Left (Right) Power Management Panel, P110 (P210).
- (4) Do a check of the wiring in the Right Power Management Panel, P210.
 - (a) Repair the wiring.
 - (b) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-11 TASK 826



777-200/300
FAULT ISOLATION MANUAL

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

827. Door 1L/1R Flight Lock Relay Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21380, 52-21430.

B. Description

- (1) 52-21380: Door 1L Flight Lock Relay in P110 has a problem.
- (2) 52-21430: Door 1R Flight Lock Relay in P210 has a problem.

C. Possible Causes

- (1) Door 1L (1R) Flight Lock Relay, K52101 (K52201)
- (2) L (R) Flight Lock Control Relay, K52105 (K52205)
- (3) Flight Lock Actuator
- (4) Wiring

D. Circuit Breakers

- (1) These are the primary circuit breakers related to the fault:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	15	C52611	L FLT LOCK DR

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	8	C52610	R FLT LOCK DR

E. Related Data

- (1) WDM 52-11-11
- (2) WDM 52-11-12

F. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-11 TASKS 826-827



**777-200/300
FAULT ISOLATION MANUAL**

G. Fault Isolation Procedure

- (1) Remove the applicable L (R) Flight Lock Control Relay K52105 (K52205) (WDM 52-11-11, WDM 52-11-12).

Table 201/52-11-00-993-829

DOOR	FLIGHT LOCK CONTROL RELAY	FLIGHT LOCK RELAY
1L	K52105	K52101
1R	K52205	K52201

- (2) Do a check for 28V DC at pin A2 of the L (R) Flight Lock Control Relay connector DK52105 (DK52205).
 - (a) If you do not find 28V DC at pin A2 of the Flight Lock Control Relay connector, then examine/repair the wiring between the applicable L (R) Flight Lock Control Relay K52105 (K52205) and the L (R) FLT COCK DR Circuit Breaker C52611 (C52610) (WDM 52-11-11, WDM 52-11-12).
 - 1) Do the Repair Confirmation at the end of this task.
 - (b) If you find 28V DC at pin A2 of the Flight Lock Control Relay connector, then replace the applicable L (R) Flight Lock Relay K52101 (K52201) in the P110 (P210) Power Management Panel (WDM 52-11-11, WDM 52-11-12).
 - 1) Do the Repair Confirmation at the end of this task.
- (3) Replace the applicable Flight Lock Control Relay K52105 (K52205) in the P110 (P210) Power Management Panel (WDM 52-11-11, WDM 52-11-12).
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Flight Lock Actuator:
 - (a) These are the tasks:
 - Flight Lock Actuator Removal, AMM TASK 52-12-26-000-801
 - Flight Lock Actuator Installation, AMM TASK 52-12-26-400-801
 - (b) Do the Repair Confirmation at the end of this task.
 - 1) Re-install the door lining.
 - (c) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Do a check of the wiring in the applicable Power Management Panel.
 - (a) Do the Repair Confirmation at the end of this task.

H. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), then you corrected the problem.
- (2) If the MAT still shows ACTIVE for the maintenance message, then continue the Fault Isolation Procedure at the subsequent step.

————— **END OF TASK** —————

828. Door 1L/1R Flight Lock Control Relay Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-17003, 52-17004.

EFFECTIVITY
ARO ALL

52-11 TASKS 827-828



777-200/300
FAULT ISOLATION MANUAL

B. Description

- (1) 52-17003: The Left Flight Lock Control Relay in P110 is not in the commanded position.
- (2) 52-17004: The Right Flight Lock Control Relay in P210 is not in the commanded position.

C. Possible Causes

- (1) L (R) Flight Lock Control Relay, K52105 (K52205)
- (2) Flight Lock Actuator
- (3) Wiring

D. Circuit Breakers

- (1) These are the primary circuit breakers related to the fault:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	15	C52611	L FLT LOCK DR

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	8	C52610	R FLT LOCK DR

E. Related Data

- (1) WDM 52-11-11
- (2) WDM 52-11-12

F. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

G. Fault Isolation Procedure

- (1) Replace the applicable L (R) Flight Lock Control Relay K52105 (K52205) in the P110 (P210) Power Management Panel (WDM 52-11-11, WDM 52-11-12).
 - (a) Do the Repair Confirmation at the end of this task.
- (2) Replace the applicable L (R) Signal Interface Unit (SIU)-2 M24505 (M24509) in the P110 (P210) Power Management Panel (WDM 52-11-11, WDM 52-11-12).
 - (a) Do the Repair Confirmation at the end of this task.
- (3) Examine the wiring between the L (R) Flight Lock Control Relay K52105 (K52205) and SIU-2 as follows (WDM 52-11-11, WDM 52-11-12):

L PED FLT LOCK CONTROL

L FLT LK CTRL

RLY	SIU-2
DK52105	DM24505A
pin A1	pin 22

DK52105	DM24505B
pin X2	pin 15

EFFECTIVITY
ARO ALL

52-11 TASK 828



777-200/300
FAULT ISOLATION MANUAL

R PED FLT LOCK CONTROL

R FLT LK CTRL

RLY **SIU-2**
DK52205 **DM24509A**
pin A1 pin 17

DK52205 **DM24505B**
pin X2 pin 12

- (a) Repair the problems that you find.
- (b) Do the Repair Confirmation at the end of this task.

H. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), then you corrected the problem.
- (2) If the MAT still shows ACTIVE for the maintenance message, then continue the Fault Isolation Procedure at the subsequent step.

————— **END OF TASK** —————

829. Door 1L/1R Flight Lock Engaged Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21580, 52-21590.

B. Description

- (1) 52-21580: Flight Lock Engaged Proximity Sensor (Door 1L) circuit is open or shorted.
- (2) 52-21590: Flight Lock Engaged Proximity Sensor (Door 1R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Flight Lock Engaged Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-13
- (2) WDM 52-71-14

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-11 TASKS 828-829



777-200/300
FAULT ISOLATION MANUAL

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the Passenger Entry Door to get access to the Flight Lock Mechanism.
- (2) Do a wiring check as follows (WDM 52-71-13, WDM 52-71-14):
 - (a) Disconnect the connector from the applicable Flight Lock Engaged Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - (c) Do a wiring check between these pins of the connector for the Flight Lock Engaged Proximity Sensor, and connector DM32025AE at the E4-1 shelf :

FLT LOCK ENGAGED PROX SNSR		
	SNSR S52101	PSEU 2
PED 1L	DS52101	DM32025AE
	pin 2	pin C1
	pin 3	pin C2
PED 1R	DS52101	DM32025AE
	pin 2	pin G1
	pin 3	pin G2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Flight Lock Engaged Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the applicable Flight Lock Engaged Proximity Sensor. This is the task: Flight Lock Engaged/Disengaged Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-000-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Circuit Card in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

EFFECTIVITY
ARO ALL

52-11 TASK 829



777-200/300
FAULT ISOLATION MANUAL

- (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show) you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

830. Door 1L/1R Flight Lock Disengaged Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21660, 52-21670.

B. Description

- (1) 52-21660: Flight Lock Disengaged Proximity Sensor (Door 1L) circuit is open or shorted.
- (2) 52-21670: Flight Lock Disengaged Proximity Sensor (Door 1R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Flight Lock Disengaged Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-13
- (2) WDM 52-71-14

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

EFFECTIVITY
ARO ALL

52-11 TASKS 829-830

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

- (1) Open the Passenger Entry Door to get access to the Flight Lock mechanism.
- (2) Do a wiring check as follows (WDM 52-71-13, WDM 52-71-14):
 - (a) Disconnect the connector from the applicable Flight Lock Disengaged Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector for the Flight Lock Disengaged Proximity Sensor, and connector DM32025AE at the E4-1 shelf:

FLT LOCK DISENGAGED PROX SNSR

	SNSR S52105	PSEU 2
PED 1L	DS52105	DM32025AE
	pin 2	pin D1
	pin 3	pin D2
PED 1R	DS52105	DM32025AE
	pin 2	pin H1
	pin 3	pin H2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Flight Lock Disengaged Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Flight Lock Disengaged Proximity Sensor. This is the task: Flight Lock Engaged/Disengaged Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-000-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Circuit Card in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - (a) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-11 TASK 830



777-200/300
FAULT ISOLATION MANUAL

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

831. Door 1L/1R Closed and Latched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21740, 52-21860.

B. Description

- (1) 52-21740: Closed and Latched Proximity Sensor (Door 1L) circuit is open or shorted.
- (2) 52-21860: Closed and Latched Proximity Sensor (Door 1R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Closed and Latched Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-11
- (2) WDM 52-71-12

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the Passenger Entry Door to get access to the Closed and Latched Proximity Sensor.
- (2) Do a wiring check as follows (WDM 52-71-11, WDM 52-71-12):
 - (a) Disconnect the connector from the applicable Closed and Latched Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

EFFECTIVITY
ARO ALL

52-11 TASKS 830-831

D633W103-ARO

Page 221
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (c) Do a wiring check between these pins of the connector for the Closed and Latched Proximity Sensor, and connector DM32025AE at the E4-1 shelf :

CLSD and LATCHED PROX SNSR

	SNSR S52109	PSEU 2
PED 1L	DS52109	DM32025AE
	pin 2	pin A1
	pin 3	pin A2
PED 1R	DS52109	DM32025AE
	pin 2	pin E1
	pin 3	pin E2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Closed and Latched Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (3) Replace the applicable Closed and Latched Proximity Sensor. This is the task: Passenger Entry Door Closed and Latched Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-802.

(a) Do the Repair Confirmation at the end of this task.

- (4) Replace the applicable circuit card in PSEU 2. These are the tasks:

- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
- PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

(a) Do the Repair Confirmation at the end of this task.

- (5) Replace the PSEU 2, M32025. These are the tasks:

- Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
- Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801

(a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

EFFECTIVITY
ARO ALL

52-11 TASK 831



777-200/300
FAULT ISOLATION MANUAL

832. Door 1L/1R Locked Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21750, 52-21760.

B. Description

- (1) 52-21750: Locked Proximity Sensor (Door 1L) circuit is open or shorted.
- (2) 52-21760: Locked Proximity Sensor (Door 1R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Locked Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-11
- (2) WDM 52-71-12

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Remove the applicable Door Lining to get access to the Locked Proximity Sensor.
- (2) Do a wiring check as follows:
 - (a) Disconnect the connector from the Locked Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector for the Locked Proximity Sensor, and connector DM32025AE at the E4-1 shelf (WDM 52-71-11, WDM 52-71-12):

EFFECTIVITY
ARO ALL

52-11 TASK 832

D633W103-ARO

Page 223
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

LOCKED PROX SNSR

	Sensor S52110	PSEU 2
PED 1L	DS52110	DM32025AE
	pin 2	pin B1
	pin 3	pin B2
PED 1R	DS52110	DM32025AE
	pin 2	pin F1
	pin 3	pin F2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Locked Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the applicable Locked Proximity Sensor. This is the task: Passenger Entry Door Closed and Latched Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Circuit Card in PSEU 2. These are the tasks:

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
 - (a) Re-install the Door Lining.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

———— END OF TASK ————

EFFECTIVITY
ARO ALL

52-11 TASK 832

D633W103-ARO

Page 224
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

833. Door 1L/1R Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21990, 52-22000, 52-22010, 52-22020, 52-22030, 52-22040, 52-22050, 52-22060.

B. Description

- (1) This task is for these maintenance messages:
 - (a) 52-21990: Target Closed and Latched (Door 1L) is out of position.
 - (b) 52-22000: Target Flight Lock Disengaged (Door 1L) is out of position.
 - (c) 52-22010: Target Flight Lock Engaged (Door 1L) is out of position.
 - (d) 52-22020: Target Locked (Door 1L) is out of position.
 - (e) 52-22030: Target Closed and Latched (Door 1R) is out of position.
 - (f) 52-22040: Target Flight Lock Disengaged (Door 1R) is out of position.
 - (g) 52-22050: Target Flight Lock Engaged (Door 1R) is out of position.
 - (h) 52-22060: Target Locked (Door 1R) is out of position.

C. Possible Causes

- (1) Target Closed and Latched
- (2) Target Flight Lock Disengaged
- (3) Target Flight Lock Engaged
- (4) Target Locked

D. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

E. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the door.
- (2) Remove the applicable Door Lining to get access to the Proximity Sensor and its Target.
- (3) Do a check of the applicable Proximity Sensor as follows:

NOTE: When the door is locked, the proximity sensor signals "TARGET FAR". Look for unwanted material that actuated the sensor.

- (a) Look for a Sensor Actuator/Deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (4) If there is material debris or a Sensor Actuator/Deactuator near the sensor, do these steps:
 - (a) Remove the material debris or the Sensor Actuator/Deactuator.

EFFECTIVITY
ARO ALL

52-11 TASK 833

D633W103-ARO

Page 225
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (b) If necessary, replace the target.
- (c) Do the applicable procedure below to adjust the Proximity Sensor.
 - 1) Do this task: Passenger Entry Door Closed and Latched Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-802.
 - 2) Do this task: Vent Door Locked Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-801.
 - 3) Do this task: Flight Lock Engaged/Disengaged Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-000-801.
- (d) Close, latch and lock the door.
- (e) Do the Repair Confirmation at the end of this task.

F. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
 - (a) Re-install the door lining.

————— END OF TASK —————

834. Door 1L/1R Flight Lock Relay Over Current Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-23000, 52-23050.

B. Description

- (1) This task is for these maintenance messages:
 - (a) 52-23000: CCA, Pass Door Driver in PSEU 1 Analog Output Discrettes are connected incorrectly (Door 1L).
 - (b) 52-23050: CCA, Pass Door Driver in PSEU 1 Analog Output Discrettes are connected incorrectly (Door 1R).

C. Fault Isolation Procedure

- (1) Do a wiring check as follows (WDM 52-11-11, WDM 52-11-12):
 - (a) Remove the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - (b) Disconnect the applicable connector at the Power Management Panel.
 - (c) Do a wiring check between these pins of the PSEU 1 connector and the connector at the Power Management Panel:

DOOR 1L FLT LOCK CNTRL

	PSEU 1	P110 PNL
PED 1L	DM32021AF	D11032P
	pin A1	pin 46

DOOR 1R FLT LOCK CNTRL

	PSEU 1	P210 PNL
PED 1R	DM32021AF	D21032P
	pin B1	pin 37

- (d) If you find a problem with the wiring, then do these steps:

EFFECTIVITY
ARO ALL

52-11 TASKS 833-834



777-200/300 FAULT ISOLATION MANUAL

- 1) Repair the wiring.
 - 2) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Reconnect connector D11032 (D21032) at the applicable Left (Right) Power Management Panel, P110 (P210).
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (2) Replace the applicable Flight Lock Relay in the Power Management Panel (WDM 52-11-11, WDM 52-11-12) :

DOOR	FLIGHT LOCK RELAY
PED 1L	K52101
PED 1R	K52201

- (a) Do the Repair Confirmation at the end of this task.
- (3) Replace the applicable Circuit Card in PSEU 1. These are the tasks:
- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
- NOTE: Circuit Card M32025-B04 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B03 is for L (R) Doors 4 and 5.
- (a) Do the Repair Confirmation at the end of this task.

D. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
 - (a) Re-install the door lining.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

835. Escape Slide Compartment Door - Closed Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21892, 52-21894.

B. Description

- (1) 52-21892: Left Slide Compartment Door Closed circuit is open or shorted.
- (2) 52-21894: Right Slide Compartment Door Closed circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Left (Right) Slide Compartment Door Closed Proximity Sensor, S52208
- (3) Left (Right) Slide Compartment Door Closed Proximity Sensor, S52212
- (4) Circuit Card Assembly (CCA) Prox Driver in PSEU 1, M32021-B08
- (5) Circuit Card Assembly (CCA) Prox Driver in PSEU 2, M32025-B08
- (6) PSEU 1, M32021

EFFECTIVITY
ARO ALL

52-11 TASKS 834-835

D633W103-ARO

Page 227
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

(7) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-20
- (2) WDM 52-71-21

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Prepare to do the procedure as follows:
 - (a) Do this task: Disarm the Off-Wing Escape System, AMM TASK 25-65-00-040-801.
 - (b) Do this task: Open the Escape Slide Compartment Door, AMM TASK 25-65-10-010-801.
- (2) Do a wiring check as follows (WDM 52-71-20, WDM 52-71-21):
 - (a) Disconnect the connector from the applicable Closed Proximity Sensor.
 - (b) Remove the applicable PSEU. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector for the Closed Proximity Sensor, and the connector for the PSEU:

**ESCAPE SLIDE COMPARTMENT DOOR -
CLOSED PROXIMITY SENSOR**

L SENSOR	PSEU 1
DS52208	DM32021AA
pin 2	pin A7
pin 3	pin A8

**ESCAPE SLIDE COMPARTMENT DOOR -
CLOSED PROXIMITY SENSOR**

R SENSOR	PSEU 2
DS52212	DM32025AA
pin 2	pin A7
pin 3	pin A8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Closed Proximity Sensor.

EFFECTIVITY
ARO ALL

52-11 TASK 835



**777-200/300
FAULT ISOLATION MANUAL**

- 3) Re-install the applicable PSEU. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the applicable PSEU. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the applicable Closed Proximity Sensor. This is the task: Off-Wing Escape Slide Compartment Door Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-07-820-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace Circuit Card B08, in the applicable PSEU. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the applicable PSEU. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (6) Do these steps to complete the procedure.
 - (a) Do this task: Close the Escape Slide Compartment Door, AMM TASK 25-65-10-400-801.
 - (b) Do this task: Arm the Off-Wing Escape System, AMM TASK 25-65-00-440-801.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— **END OF TASK** —————

836. Escape Slide Compartment Door - Latch Actuator Switch Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21910, 52-21920.

B. Description

- (1) 52-21910: CCA, Prox Driver PSEU 1 has a discrete input fault.
- (2) 52-21920: CCA, Prox Driver PSEU 2 has a discrete input fault.

C. Possible Causes

- (1) Wiring
- (2) L (R) Latch Actuator Locked Switch, S52214 (S52214)
- (3) Circuit Card Assembly (CCA) Prox Driver in PSEU 1, M32021-B08
- (4) Circuit Card Assembly (CCA) Prox Driver in PSEU 2, M32025-B08
- (5) PSEU 1, M32021
- (6) PSEU 2, M32025

EFFECTIVITY
ARO ALL

52-11 TASKS 835-836

D633W103-ARO

Page 229
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

D. Related Data

- (1) WDM 52-71-20
- (2) WDM 52-71-21

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

- (1) Open the access panel to get access to the Latch Actuator.
- (2) Do a check of the wiring as follows (WDM 52-71-20, WDM 52-71-21):
 - (a) Disconnect the connector from the applicable Latch Actuator.
 NOTE: The Closed Switch is installed in the Latch Actuator.
 - (b) Remove the applicable PSEU. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector for the Latch Actuator, and the connector for the PSEU:

**ESCAPE SLIDE COMPARTMENT DOOR - LATCH
ACTUATOR CLOSED SWITCH**

Left Switch	PSEU 1
DS52210	DM32021AA
pin 1	pin K5

**ESCAPE SLIDE COMPARTMENT DOOR - LATCH
ACTUATOR CLOSED SWITCH**

Right Switch	PSEU 2
DS52214	DM32025AA
pin 1	pin K5

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Latch Actuator.
 - 3) Re-install the applicable PSEU. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the applicable PSEU. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Latch Actuator. These are the tasks:
 - Latch Actuator Removal, AMM TASK 25-65-11-000-801,
 - Latch Actuator Installation, AMM TASK 25-65-11-400-801.

EFFECTIVITY ARO ALL

52-11 TASK 836



777-200/300
FAULT ISOLATION MANUAL

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace Circuit Card B08, in the applicable PSEU. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the applicable PSEU. These are the tasks:
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

837. Escape Slide Compartment Door - Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-22350, 52-22360.

B. Description

- (1) 52-22350: Left Slide Compartment Door has a problem.
- (2) 52-22360: Right Slide Compartment Door has a problem.

C. Possible Causes

- (1) Left (Right) Slide Compartment Door Closed Target
- (2) Wiring
- (3) Left (Right) Slide Compartment Door Closed Proximity Sensor, S52208 (S52212)
- (4) Left (Right) Latch Actuator Switch Locked Assembly, S52210 (S52214)
- (5) Circuit Card Assembly (CCA) Prox Driver in PSEU 1, M32021-B08
- (6) Circuit Card Assembly (CCA) Prox Driver in PSEU 2, M32025-B08
- (7) 52-22350: PSEU 1, M32021
- (8) 52-22360: PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-20
- (2) WDM 52-71-21

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-11 TASKS 836-837

D633W103-ARO

Page 231
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do this task: Disarm the Off-Wing Escape System, AMM TASK 25-65-00-040-801.
- (2) Do this task: Open the Escape Slide Compartment Door, AMM TASK 25-65-10-010-801.
- (3) Do a check of the applicable Proximity Sensor as follows:
 - (a) Look for a Sensor Actuator/Deactuator tool on the sensor.
 - (b) Look for damage of the target or unwanted material near the sensor.
- (4) If there is unwanted material or damage, do these steps:
 - (a) Remove the unwanted material or the Sensor Actuator/Deactuator.
 - (b) If necessary, replace the target.
 - (c) Do the applicable steps in the procedure below to adjust the Proximity Sensor.
 - 1) Do this task: Off-Wing Escape Slide Compartment Door Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-07-820-801.
 - (d) Do this task: Close the Escape Slide Compartment Door, AMM TASK 25-65-10-400-801.
 - (e) Do the Repair Confirmation at the end of this task.
- (5) Do a wiring check as follows (WDM 52-71-20, WDM 52-71-21):
 - (a) Disconnect the connector from the applicable Closed Proximity Sensor.
 - (b) Disconnect the connector from the applicable Locked Latch Actuator Switch.
 - (c) Remove the applicable Proximity Sensor Electronics Unit (PSEU). This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (d) Do a wiring check between these pins of the connectors for the Closed Proximity Sensor and Locked Latch Actuator Switch and the connector for the PSEU:

**ESCAPE SLIDE COMPARTMENT DOOR -
CLOSED PROXIMITY SENSOR**

L Sensor	PSEU 1
DS52208	DM32021AA
pin 2	pin A7
pin 3	pin A8

**ESCAPE SLIDE COMPARTMENT DOOR - LATCH
ACTUATOR CLOSED SWITCH**

Left Switch	PSEU 1
DS52210	DM32021AA
pin 1	pin K5
pin 2	Structure GND

EFFECTIVITY
ARO ALL

52-11 TASK 837



777-200/300
FAULT ISOLATION MANUAL

ESCAPE SLIDE COMPARTMENT DOOR -
CLOSED PROXIMITY SENSOR

R Sensor	PSEU 2
DS52212	DM32025AA
pin 2	pin A7
pin 3	pin A8

ESCAPE SLIDE COMPARTMENT DOOR - LATCH
ACTUATOR CLOSED SWITCH

Right Switch	PSEU 2
DS52214	DM32025AA
pin 1	pin K5
pin 2	Structure GND

- (e) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Closed Proximity Sensor.
 - 3) Reconnect the connector to the Locked Latch Actuator Switch.
 - 4) Re-install the applicable PSEU. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 5) Do the Repair Confirmation at the end of this task.
- (f) Re-install the applicable PSEU. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (6) Replace the applicable Closed Proximity Sensor. This is the task: Off-Wing Escape Slide Compartment Door Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-07-820-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (7) Replace the applicable Latch Actuator. These are the tasks:
 - Latch Actuator Removal, AMM TASK 25-65-11-000-801
 - Latch Actuator Installation, AMM TASK 25-65-11-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (8) Replace Circuit Card B08, in the applicable PSEU. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (9) Replace the applicable PSEU. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (10) Do these tasks to complete the procedure:
 - Close the Escape Slide Compartment Door, AMM TASK 25-65-10-400-801.
 - Arm the Off-Wing Escape System, AMM TASK 25-65-00-440-801.

EFFECTIVITY
ARO ALL

52-11 TASK 837



777-200/300
FAULT ISOLATION MANUAL

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

838. Door 2L/2R, 3L/3R, 4L/4R PED Flight Lock Actuator Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21300, 52-21310, 52-21320, 52-21325, 52-21330, 52-21335, 52-21340, 52-21350.

B. Description

- (1) 52-21300: Passenger Entry Door 2L Actuator has a problem.
- (2) 52-21310: Passenger Entry Door 2R Actuator has a problem.
- (3) 52-21325: Passenger Entry Door 3L Actuator has a problem.
- (4) 52-21335: Passenger Entry Door 3R Actuator has a problem.
- (5) 52-21340: Passenger Entry Door 4L Actuator has a problem.
- (6) 52-21350: Passenger Entry Door 4R Actuator has a problem.

C. Possible Causes

- (1) Wiring
- (2) Passenger Entry Door Actuator, M52101
- (3) Flight Lock Engaged Proximity Sensor
- (4) Flight Lock Disengaged Proximity Sensor

D. Related Data

- (1) WDM 52-11-11

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do a check of the Flight Lock Mechanism. This is the task:
 - Flight Lock Mechanism Check, AMM TASK 52-12-26-200-801
- (2) Do a check of the Flight Lock Control.
 - Flight Lock Control Test, AMM TASK 52-12-26-740-801

EFFECTIVITY
ARO ALL

52-11 TASKS 837-838

D633W103-ARO

Page 234
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (a) If the Flight Lock engages, do these steps:
 - 1) Stop the MAT Ground Test.
 - 2) Do this task: Door 2L/2R, 3L/3R, 4L/4R Flight Lock Engaged Prox Sensor Problems - Fault Isolation, 52-11 TASK 842.
 - a) Do the Repair Confirmation at the end of this task.
 - 3) Do this task: Door 2L/2R, 3L/3R, 4L/4R Flight Lock Disengaged Prox Sensor Problems - Fault Isolation, 52-11 TASK 844.
 - a) Do the Repair Confirmation at the end of this task.
- (b) If the Flight Lock does not engage, then continue.
- (3) Do a wiring check as follows (WDM 52-11-11):
 - (a) Disconnect the connector from the applicable Flight Lock Actuator.
 - (b) Do a check for 28 VDC at pin 1 of the applicable Flight Lock Actuator connector.
NOTE: Measure the voltage before you stop the MAT Ground Test.
 - (c) If you find 28V DC, replace the applicable Flight Lock Actuator. These are the tasks:
 - Flight Lock Actuator Removal, AMM TASK 52-12-26-000-801
 - Flight Lock Actuator Installation, AMM TASK 52-12-26-400-801
 - 1) Do the Repair Confirmation at the end of this task.
 - (d) If you do not find 28V DC, then continue.
 - (e) Disconnect the applicable connector D11037 (D21037) at the Left (Right) Power Management Panel, P110 (P210).
 - (f) Do a wiring check as follows(WDM 52-11-11):

PED FLT LOCK ACT

	ACT M52101	P110 PWR PNL
PED 2L	DM52101	D11037
	pin 1	pin 3
PED 3L	DM52101	D11037
	pin 1	pin 4
PED 4L	DM52101	D11037
	pin 1	pin 5

PED FLT LOCK ACT

	ACT M52101	P210 PNL
PED 2R	DM52101	D21037
	pin 1	pin 11
PED 3R	DM52101	D21037
	pin 1	pin 12
PED 4R	DM52101	D21037
	pin 1	pin 13

- (g) If you find a problem with the wiring, then do these steps:

EFFECTIVITY
ARO ALL

52-11 TASK 838



777-200/300
FAULT ISOLATION MANUAL

- 1) Repair the wiring.
 - 2) Reconnect the applicable connector to the Flight Lock Actuator.
 - 3) Reconnect connector D11037 (D21037) to the applicable Left (Right) Power Management Panel, P110 (P210).
 - 4) Do the Repair Confirmation at the end of this task.
- (h) If you do not find a problem with the wiring, then continue.
- 1) Reconnect the connector to the Flight Lock Actuator.
 - 2) Reconnect the applicable connector D11037 (D21037) to the Left (Right) Power Management Panel, P110 (P210).
- (4) Do a check of the wiring in the Left (Right) Power Management Panel, P110 (P210).
- (a) Repair the wiring.
 - (b) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

839. EPAS Battery Test Indicator Light Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) Do these steps if the green test light on the EPAS battery does not come on:
 - (a) Replace the EPAS 9 Volt back-up battery:
 - 1) Remove the EPAS 9 Volt back-up battery (AMM TASK 52-12-20-000-804-002).
 - 2) Install the EPAS 9 Volt back-up battery (AMM TASK 52-12-20-400-803-002).
 - (b) For the applicable PED, remove the safety tag and close the circuit breaker that you opened in the previous step.
 - (c) Do this task: EPAS Battery Operational Test (AMM TASK 52-12-20-700-802-002).
- (2) If green test light still does not come on, do these steps:
 - (a) Replace the EPAS battery pack:
 - 1) Remove the EPAS battery pack (AMM TASK 52-12-20-000-803-002).
 - 2) Install the EPAS battery pack (AMM TASK 52-12-20-400-802-002).

————— END OF TASK —————

840. PED Exterior Handle turns but does not lock door - Fault Isolation

A. Fault Isolation Procedure

- (1) Remove and disassemble the exterior handle (Exterior Handle Mechanism Removal, AMM TASK 52-12-02-000-801).
- (2) Clean the Karon coated surfaces on the clutch with solvent, B00316 or alcohol, B50073.
- (3) Dry the components (with clean shop air) to prevent contamination.
- (4) Assemble the handle (Exterior Handle Mechanism Installation, AMM TASK 52-12-02-400-801).

EFFECTIVITY
ARO ALL

52-11 TASKS 838-840

D633W103-ARO

Page 236
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (5) Do this task: Passenger Entry Door Servicing, AMM TASK 12-21-20-640-801.
 - (a) Make sure that the exterior handle shaft is not lubricated. This will prevent damage to the Karon coating on the inner surface of the inboard clutch.

————— END OF TASK —————

841. Door 5L/5R PED Flight Lock Actuator Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21360, 52-21370.

B. Description

- (1) 52-21360: Passenger Entry Door 5L Actuator has a problem.
- (2) 52-21370: Passenger Entry Door 5R Actuator has a problem.

C. Possible Causes

- (1) Wiring
- (2) Passenger Entry Door Actuator, M52101
- (3) Flight Lock Engaged Proximity Sensor
- (4) Flight Lock Disengaged Proximity Sensor

D. Related Data

- (1) WDM 52-11-11
- (2) WDM 52-11-12

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

G. Repair Confirmation

- (1) Do a check of the Flight Lock Mechanism. This is the task: Flight Lock Mechanism Check, AMM TASK 52-12-26-200-801
- (2) Do a check of the Flight Lock Control. This is the task: Flight Lock Control Test, AMM TASK 52-12-26-740-801
 - (a) If the Flight Lock engages, do these steps:
 - 1) Stop the MAT Ground Test.
 - 2) Do this task: Door 5L/5R Flight Lock Engaged Prox Sensor Problems - Fault Isolation, 52-11 TASK 843.
 - a) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-11 TASKS 840-841

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

- 3) Do this task: Door 5L/5R Flight Lock Disengaged Prox Sensor Problems - Fault Isolation, 52-11 TASK 845.
 - a) Do the Repair Confirmation at the end of this task.
 - (b) If the Flight Lock does not engage, then continue.
- (3) Do a wiring check as follows (WDM 52-11-11, WDM 52-11-12):
 - (a) Disconnect the connector from the applicable Flight Lock Actuator.
 - (b) Do a check for 28 VDC at pin 1 of the applicable Flight Lock Actuator connector.
NOTE: Measure the voltage before you stop the MAT Ground Test.
 - (c) If you find 28V DC, replace the applicable Flight Lock Actuator. These are the tasks:
 - Flight Lock Actuator Removal, AMM TASK 52-12-26-000-801
 - Flight Lock Actuator Installation, AMM TASK 52-12-26-400-801
 - 1) Do the Repair Confirmation at the end of this task.
 - (d) If you do not find 28V DC, then continue.
 - (e) Disconnect the applicable connector D11037 (D21037) at the Left (Right) Power Management Panel, P110 (P210).
 - (f) Do a wiring check as follows (WDM 52-11-11, WDM 52-11-12):

DOOR 5L

PED FLT LOCK

ACT

DM52101

pin 1 pin 6

P110 PWR PNL

D11037

DOOR 5R

PED FLT LOCK

ACT

DM52101

pin 1 pin 14

P210 PWR PNL

D11037

- (g) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Flight Lock Actuator.
 - 3) Reconnect connector D11037 at the Left (Right) Power Management Panel, P110.
 - 4) Do the repair confirmation at the end of this task.
- (h) If you do not find a problem with the wiring, then continue.
 - (i) Reconnect the connector to the Flight Lock Actuator.
 - (j) Reconnect connector D11037 at the Left (Right) Power Management Panel, P110 (P210).
- (4) Do a check of the wiring in the Left (Right) Power Management Panel, P110 (P210).
 - (a) Repair the wiring.
 - (b) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-11 TASK 841



777-200/300
FAULT ISOLATION MANUAL

H. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

842. Door 2L/2R, 3L/3R, 4L/4R Flight Lock Engaged Prox Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21600, 52-21610, 52-21620, 52-21625, 52-21630, 52-21635, 52-21640, 52-21650.

B. Description

- (1) 52-21600: Flight Lock Engaged Proximity Sensor (Door 2L) circuit is open or shorted.
- (2) 52-21610: Flight Lock Engaged Proximity Sensor (Door 2R) circuit is open or shorted.
- (3) 52-21625: Flight Lock Engaged Proximity Sensor (Door 3L) circuit is open or shorted.
- (4) 52-21635: Flight Lock Engaged Proximity Sensor (Door 3R) circuit is open or shorted.
- (5) 52-21640: Flight Lock Engaged Proximity Sensor (Door 4L) circuit is open or shorted.
- (6) 52-21650: Flight Lock Engaged Proximity Sensor (Door 4R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Flight Lock Engaged Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-13
- (2) WDM 52-71-14

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the Passenger Entry Door to get access to the Flight Lock Mechanism.

EFFECTIVITY
ARO ALL

52-11 TASKS 841-842

D633W103-ARO

Page 239
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (2) Do a wiring check as follows (WDM 52-71-13, WDM 52-71-14):
 - (a) Disconnect the connector from the applicable Flight Lock Engaged Proximity Sensor.
 - (b) Remove the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - (c) Do a wiring check between these pins of the connector for the Flight Lock Engaged Proximity Sensor, and connector DM32025AE at the E4-1 shelf :

**PED FLIGHT LOCK ENGAGED PROX SENSOR
777-300**

	SNSR S52101 and S52108 (DR 3L/3R)	PSEU 2
PED 2L	DS52101	DM32025AE
	pin 2	pin C3
	pin 3	pin C4
PED 2R	DS52101	DM32025AE
	pin 2	pin G3
	pin 3	pin G4
PED 3L	DS52028	DM32025AE
	pin 2	pin C5
	pin 3	pin C6
PED 3R	DS52028	DM32025AE
	pin 2	pin G5
	pin 3	pin G6
PED 4L	DS52101	DM32025AE
	pin 2	pin C7
	pin 3	pin C8
PED 4R	DS52101	DM32025AE
	pin 2	pin G7
	pin 3	pin G8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Flight Lock Engaged Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

EFFECTIVITY
ARO ALL

52-11 TASK 842

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

- (3) Replace the applicable Flight Lock Engaged Proximity Sensor. This is the task: Flight Lock Engaged/Disengaged Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-000-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Circuit Card in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show) you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

843. Door 5L/5R Flight Lock Engaged Prox Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21645, 52-21655.

B. Description

- (1) 52-21645: Flight Lock Engaged Proximity Sensor (Door 5L) circuit is open or shorted.
- (2) 52-21655: Flight Lock Engaged Proximity Sensor (Door 5R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Flight Lock Engaged Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-13
- (2) WDM 52-71-14

EFFECTIVITY
ARO ALL

52-11 TASKS 842-843

D633W103-ARO

Page 241
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the Passenger Entry Door to get access to the Flight Lock Mechanism.
- (2) Do a wiring check as follows (WDM 52-71-13, WDM 52-71-14):
 - (a) Disconnect the connector from the applicable Flight Lock Engaged Proximity Sensor.
 - (b) Remove the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - (c) Do a wiring check between these pins of the connector for the Flight Lock Engaged Proximity Sensor, and connector DM32025AE at the E4-1 shelf :

**DOOR 5L PED FLT LOCK ENGAGED PROX
SENSOR**

SENSOR		PSEU 2	
S52101			
DS52101		DM32025AE	
pin 2	.....	pin C11	
pin 3	.....	pin C12	

**DOOR 5R PED FLT LOCK ENGAGED PROX
SENSOR**

SENSOR		PSEU 2	
S52101			
DS52101		DM32025AE	
pin 2	.....	pin G11	
pin 3	.....	pin G12	

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Flight Lock Engaged Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.

EFFECTIVITY
ARO ALL

52-11 TASK 843



**777-200/300
FAULT ISOLATION MANUAL**

- 1) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the applicable Flight Lock Engaged Proximity Sensor. This is the task: Flight Lock Engaged/Disengaged Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-000-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Circuit Card in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show) you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— **END OF TASK** —————

844. Door 2L/2R, 3L/3R, 4L/4R Flight Lock Disengaged Prox Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21680, 52-21690, 52-21700, 52-21705, 52-21710, 52-21715, 52-21720, 52-21730.

B. Description

- (1) 52-21680: Flight Lock Disengaged Proximity Sensor (Door 2L) circuit is open or shorted.
- (2) 52-21690: Flight Lock Disengaged Proximity Sensor (Door 2R) circuit is open or shorted.
- (3) 52-21705: Flight Lock Disengaged Proximity Sensor (Door 3L) circuit is open or shorted.
- (4) 52-21715: Flight Lock Disengaged Proximity Sensor (Door 3R) circuit is open or shorted.
- (5) 52-21720: Flight Lock Disengaged Proximity Sensor (Door 4L) circuit is open or shorted.
- (6) 52-21730: Flight Lock Disengaged Proximity Sensor (Door 4R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Flight Lock Disengaged Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

EFFECTIVITY
ARO ALL

52-11 TASKS 843-844

D633W103-ARO

Page 243
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

D. Related Data

- (1) WDM 52-71-13
- (2) WDM 52-71-14

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the Passenger Entry Door to get access to the Flight Lock mechanism.
- (2) Do a wiring check as follows (WDM 52-71-13, WDM 52-71-14):
 - (a) Disconnect the connector from the applicable Flight Lock Disengaged Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector for the Flight Lock Disengaged Proximity Sensor, and connector DM32025AE at the E4-1 shelf:

EFFECTIVITY
ARO ALL

52-11 TASK 844

D633W103-ARO

Page 244
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

**PED FLT LOCK DISENGAGED PROX SENSOR -
777-300**

	SNSR S52105 and SNSR S52027	PSEU 2 CONN
PED 2L	DS52105	DM32025AE
	pin 2	pin D3
	pin 3	pin D4
PED 2R	DS52105	DM32025AE
	pin 2	pin H3
	pin 3	pin H4
PED 3L	DS52027	DM32025AE
	pin 2	pin D5
	pin 3	pin D6
PED 3R	DS52027	DM32025AE
	pin 2	pin H5
	pin 3	pin H6
PED 4L	DS52105	DM32025AE
	pin 2	pin D7
	pin 3	pin D8
PED 4R	DS52105	DM32025AE
	pin 2	pin H7
	pin 3	pin H8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Flight Lock Disengaged Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Flight Lock Disengaged Proximity Sensor. This is the task: Flight Lock Engaged/Disengaged Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-000-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Circuit Card in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801

EFFECTIVITY
ARO ALL

52-11 TASK 844

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

- PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— **END OF TASK** —————

845. Door 5L/5R Flight Lock Disengaged Prox Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21725, 52-21735.

B. Description

- (1) 52-21725: Flight Lock Disengaged Proximity Sensor (Door 5L) circuit is open or shorted.
- (2) 52-21735: Flight Lock Disengaged Proximity Sensor (Door 5R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Flight Lock Disengaged Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-13
- (2) WDM 52-71-14

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

- (1) Open the Passenger Entry Door to get access to the Flight Lock mechanism.
- (2) Do a wiring check as follows (WDM 52-71-13, WDM 52-71-14):
 - (a) Disconnect the connector from the applicable Flight Lock Disengaged Proximity Sensor.

EFFECTIVITY
ARO ALL

52-11 TASKS 844-845

D633W103-ARO

Page 246
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
- (c) Do a wiring check between these pins of the connector for the Flight Lock Disengaged Proximity Sensor, and connector DM32025AE at the E4-1 shelf:

**PED FLT LOCK DISENGAGED PROX SENSOR -
DOOR 5L**

SNSR S52105	PSEU 2
DS52105	DM32025AE
pin 2	pin D11
pin 3	pin D12

**PED FLT LOCK DISENGAGED PROX SENSOR -
DOOR 5R**

SNSR S52105	PSEU 2
DS52105	DM32025AE
pin 2	pin H11
pin 3	pin H12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Flight Lock Disengaged Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Flight Lock Disengaged Proximity Sensor. This is the task: Flight Lock Engaged/Disengaged Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-000-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Circuit Card in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - (a) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-11 TASK 845



777-200/300
FAULT ISOLATION MANUAL

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

846. Door 2L/2R, 3L/3R, 4L/4R Flight Lock Relay Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21390, 52-21400, 52-21410, 52-21440, 52-21450, 52-21460.

B. Description

- (1) 52-21390: Door 2L Flight Lock Relay in P110 has a problem.
- (2) 52-21440: Door 2R Flight Lock Relay in P210 has a problem.
- (3) 52-21400: Door 3L Flight Lock Relay in P110 has a problem.
- (4) 52-21450: Door 3R Flight Lock Relay in P210 has a problem.
- (5) 52-21410: Door 4L Flight Lock Relay in P110 has a problem.
- (6) 52-21460: Door 4R Flight Lock Relay in P210 has a problem.

C. Possible Causes

- (1) Door 2L (2R, 3L, 3R, 4L, 4R) Flight Lock Relay, K52102 (K52202, K52103, K52203, K52104, K52204)
- (2) L (R) Flight Lock Control Relay, K52105 (K52205)
- (3) Flight Lock Actuator
- (4) Wiring

D. Circuit Breakers

- (1) These are the primary circuit breakers related to the fault:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	15	C52611	L FLT LOCK DR

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	8	C52610	R FLT LOCK DR

E. Related Data

- (1) WDM 52-11-11
- (2) WDM 52-11-12

F. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-11 TASKS 845-846



**777-200/300
FAULT ISOLATION MANUAL**

G. Fault Isolation Procedure

- (1) Remove the applicable L (R) Flight Lock Control Relay K52105 (K52205) (WDM 52-11-11, WDM 52-11-12).

Table 202/52-11-00-993-830

DOOR	FLIGHT LOCK CONTROL RELAY	FLIGHT LOCK RELAY
2L	K52105	K52102
2R	K52205	K52202
3L	K52105	K52103
3R	K52205	K52203
4L	K52105	K52104
4R	K52205	K52204

- (2) Do a check for 28V DC at pin A2 of the L (R) Flight Lock Control Relay connector DK52105 (DK52205).
 - (a) If you do not find 28V DC at pin A2 of the Flight Lock Control Relay connector, then examine/repair the wiring between the applicable L (R) Flight Lock Control Relay K52105 (K52205) and the L (R) FLT COCK DR Circuit Breaker C52611 (C52610) (WDM 52-11-11, WDM 52-11-12).
 - 1) Do the Repair Confirmation at the end of this task.
 - (b) If you find 28V DC at pin A2 of the Flight Lock Control Relay connector, then replace the applicable Flight Lock Relay in the P110 (P210) Power Management Panel (WDM 52-11-11, WDM 52-11-12).
 - 1) Do the Repair Confirmation at the end of this task.
- (3) Replace the applicable Flight Lock Control Relay K52105 (K52205) in the P110 (P210) Power Management Panel (WDM 52-11-11, WDM 52-11-12).
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Flight Lock Actuator:
 - (a) These are the tasks:
 - Flight Lock Actuator Removal, AMM TASK 52-12-26-000-801
 - Flight Lock Actuator Installation, AMM TASK 52-12-26-400-801
 - (b) Do the Repair Confirmation at the end of this task.
 - 1) Re-install the door lining.
- (5) Do a check of the wiring in the applicable Power Management Panel.
 - (a) Do the Repair Confirmation at the end of this task.

H. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), then you corrected the problem.
- (2) If the MAT still shows ACTIVE for the maintenance message, then continue the Fault Isolation Procedure at the subsequent step.

————— **END OF TASK** —————

EFFECTIVITY
ARO ALL

52-11 TASK 846

D633W103-ARO

Page 249
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

847. Door 5L/5R Flight Lock Relay Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21420, 52-21470.

B. Description

- (1) 52-21420: Door 5L Flight Lock Relay in P110 has a problem.
- (2) 52-21470: Door 5R Flight Lock Relay in P110 has a problem.

C. Possible Causes

- (1) Door 5L (5R) Flight Lock Relay, K52106 (K52206)
- (2) L (R) Flight Lock Control Relay, K52105 (K52205)
- (3) Flight Lock Actuator
- (4) Wiring

D. Circuit Breakers

- (1) These are the primary circuit breakers related to the fault:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	15	C52611	L FLT LOCK DR

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
N	8	C52610	R FLT LOCK DR

E. Related Data

- (1) WDM 52-11-11
- (2) WDM 52-11-12

F. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

G. Fault Isolation Procedure

- (1) Remove the applicable L (R) Flight Lock Control Relay K52105 (K52205) (WDM 52-11-11, WDM 52-11-12).

Table 203/52-11-00-993-831

DOOR	FLIGHT LOCK CONTROL RELAY	FLIGHT LOCK RELAY
5L	K52105	K52106
5R	K52205	K52206

- (2) Do a check for 28V DC at pin A2 of the L (R) Flight Lock Control Relay connector DK52105 (DK52205).

EFFECTIVITY
ARO ALL

52-11 TASK 847



**777-200/300
FAULT ISOLATION MANUAL**

- (a) If you do not find 28V DC at pin A2 of the Flight Lock Control Relay connector, then examine/repair the wiring between the applicable L (R) Flight Lock Control Relay K52105 (K52205) and the L (R) FLT COCK DR Circuit Breaker C52611 (C52610) (WDM 52-11-11, WDM 52-11-12).
 - 1) Do the Repair Confirmation at the end of this task.
- (b) If you find 28V DC at pin A2 of the Flight Lock Control Relay connector, then replace the applicable L (R) Flight Lock Relay K52106 (K52206) in the P110 (P210) Power Management Panel (WDM 52-11-11, WDM 52-11-12).
 - 1) Do the Repair Confirmation at the end of this task.
- (3) Replace the applicable Flight Lock Control Relay K52105 (K52205) in the P110 (P210) Power Management Panel (WDM 52-11-11, WDM 52-11-12).
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Flight Lock Actuator:
 - (a) These are the tasks:
 - Flight Lock Actuator Removal, AMM TASK 52-12-26-000-801
 - Flight Lock Actuator Installation, AMM TASK 52-12-26-400-801
 - (b) Do the Repair Confirmation at the end of this task.
 - 1) Re-install the door lining.
- (5) Do a check of the wiring in the applicable Power Management Panel.
 - (a) Do the Repair Confirmation at the end of this task.

H. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), then you corrected the problem.
- (2) If the MAT still shows ACTIVE for the maintenance message, then continue the Fault Isolation Procedure at the subsequent step.

————— **END OF TASK** —————

848. Door 2L/2R, 3L/3R, 4L/4R Closed and Latched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21830, 52-21840, 52-21850, 52-21870, 52-21880, 52-21890.

B. Description

- (1) 52-21830: Closed and Latched Proximity Sensor (Door 2L) circuit is open or shorted.
- (2) 52-21870: Closed and Latched Proximity Sensor (Door 2R) circuit is open or shorted.
- (3) 52-21840: Closed and Latched Proximity Sensor (Door 3L) circuit is open or shorted.
- (4) 52-21880: Closed and Latched Proximity Sensor (Door 3R) circuit is open or shorted.
- (5) 52-21850: Closed and Latched Proximity Sensor (Door 4L) circuit is open or shorted.
- (6) 52-21890: Closed and Latched Proximity Sensor (Door 4R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Closed and Latched Proximity Sensor

EFFECTIVITY
ARO ALL

52-11 TASKS 847-848

D633W103-ARO

Page 251
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Circuit Breakers

- (1) This is the primary circuit breaker related to the fault:

Right Power Management Panel, P210

Row	Col	Number	Name
L	13	C32601	PSEU 2 PRI PWR

E. Related Data

- (1) WDM 52-71-11
- (2) WDM 52-71-12

F. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

G. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the Passenger Entry Door to get access to the Closed and Latched Proximity Sensor.
- (2) Do a wiring check as follows (WDM 52-71-11, WDM 52-71-12):
 - (a) Disconnect the connector from the applicable Closed and Latched Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the Closed and Latched Proximity Sensor connector, and connector DM32025AE at the E4-1 shelf :

EFFECTIVITY
ARO ALL

52-11 TASK 848



**777-200/300
FAULT ISOLATION MANUAL**

CLOSED AND LATCHED PROX SENSOR

	SENSOR CONN	PSEU 2 CONN
PED 2L	DS52111	DM32025AE
	pin 2	pin A3
	pin 3	pin A4
PED 2R	DS52211	DM32025AE
	pin 2	pin E3
	pin 3	pin E4
PED 3L	DS52113	DM32025AE
	pin 2	pin A5
	pin 3	pin A6
PED 3R	DS52213	DM32025AE
	pin 2	pin E5
	pin 3	pin E6
PED 4L	DS52115	DM32025AE
	pin 2	pin A7
	pin 3	pin A8
PED 4R	DS52215	DM32025AE
	pin 2	pin E7
	pin 3	pin E8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Closed and Latched Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the applicable Closed and Latched Proximity Sensor. This is the task: Passenger Entry Door Closed and Latched Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable circuit card in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

 - (a) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-11 TASK 848

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

H. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

———— END OF TASK ————

849. Door 5L/5R Closed and Latched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21855, 52-21895.

B. Description

- (1) 52-21855: Closed and Latched Proximity Sensor (Door 5L) circuit is open or shorted.
- (2) 52-21895: Closed and Latched Proximity Sensor (Door 5R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Closed and Latched Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Circuit Breakers

- (1) This is the primary circuit breaker related to the fault:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	13	C32601	PSEU 2 PRI PWR

E. Related Data

- (1) WDM 52-71-11
- (2) WDM 52-71-12

F. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-11 TASKS 848-849



777-200/300
FAULT ISOLATION MANUAL

G. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the Passenger Entry Door to get access to the Closed and Latched Proximity Sensor.
- (2) Do a wiring check as follows (WDM 52-71-11, WDM 52-71-12):
 - (a) Disconnect the connector from the applicable Closed and Latched Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector for the Closed and Latched Proximity Sensor, and connector DM32025AE at the E4-1 shelf :

CLOSED AND LATCHED PROX SENSOR		
	SENSOR CONN	PSEU 2 CONN
PED 5L	DS52117	DM32025AE
	pin 2	pin A11
	pin 3	pin A12
PED 5R	DS52217	DM32025AE
	pin 2	pin E11
	pin 3	pin E12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Closed and Latched Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the applicable Closed and Latched Proximity Sensor. This is the task: Passenger Entry Door Closed and Latched Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable circuit card in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

EFFECTIVITY
ARO ALL

52-11 TASK 849



777-200/300
FAULT ISOLATION MANUAL

- (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

H. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

850. Door 2L/2R, 3L/3R, 4L/4R Locked Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21770, 52-21780, 52-21790, 52-21795, 52-21800, 52-21805, 52-21810, 52-21820, 52-22270.

B. Description

- (1) 52-21770: Locked Proximity Sensor (Door 2L) circuit is open or shorted.
- (2) 52-21780: Locked Proximity Sensor (Door 2R) circuit is open or shorted.
- (3) 52-21795: Locked Proximity Sensor (Door 3L) circuit is open or shorted.
- (4) 52-21805: Locked Proximity Sensor (Door 3R) circuit is open or shorted.
- (5) 52-21810: Locked Proximity Sensor (Door 4L) circuit is open or shorted.
- (6) 52-21820: Locked Proximity Sensor (Door 4R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Locked Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Circuit Breakers

- (1) This is the primary circuit breaker related to the fault:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	13	C32601	PSEU 2 PRI PWR

E. Related Data

- (1) WDM 52-71-11
- (2) WDM 52-71-12

EFFECTIVITY ARO ALL

52-11 TASKS 849-850



**777-200/300
FAULT ISOLATION MANUAL**

F. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

G. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Remove the applicable Door Lining to get access to the Locked Proximity Sensor.
- (2) Do a wiring check as follows:
 - (a) Disconnect the connector from the Locked Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector for the Locked Proximity Sensor, and connector DM32025AE at the E4-1 shelf (WDM 52-71-11, WDM 52-71-12):

EFFECTIVITY
ARO ALL

52-11 TASK 850

D633W103-ARO

Page 257
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

PED LOCKED PROX SENSOR 777-300

	Sensor S52110 & Sensor S52026	PSEU 2 CONN
PED 2L	DS52110	DM32025AE
	pin 2	pin B3
	pin 3	pin B4
PED 2R	DS52110	DM32025AE
	pin 2	pin F3
	pin 3	pin F4
PED 3L	DS52026	DM32025AE
	pin 2	pin B5
	pin 3	pin B6
PED 3R	DS52026	DM32025AE
	pin 2	pin F5
	pin 3	pin F6
PED 4L	DS52110	DM32025AE
	pin 2	pin B7
	pin 3	pin B8
PED 4R	DS52110	DM32025AE
	pin 2	pin F7
	pin 3	pin F8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Locked Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the applicable Locked Proximity Sensor. This is the task: Passenger Entry Door Closed and Latched Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Circuit Card in PSEU 2. These are the tasks:

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

EFFECTIVITY
ARO ALL

52-11 TASK 850

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

- (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

H. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
 - (a) Re-install the Door Lining.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

851. Door 5L/5R Locked Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21815, 52-21825.

B. Description

- (1) 52-21815: Locked Proximity Sensor (Door 5L) circuit is open or shorted.
- (2) 52-21825: Locked Proximity Sensor (Door 5R) circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Locked Proximity Sensor
- (3) Circuit Card Assembly, Prox Driver in PSEU 2

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

- (4) PSEU 2, M32025

D. Circuit Breakers

- (1) This is the primary circuit breaker related to the fault:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
L	13	C32601	PSEU 2 PRI PWR

E. Related Data

- (1) WDM 52-71-11
- (2) WDM 52-71-12

F. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-11 TASKS 850-851



777-200/300
FAULT ISOLATION MANUAL

G. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Remove the applicable Door Lining to get access to the Locked Proximity Sensor.
- (2) Do a wiring check as follows (WDM 52-71-11, WDM 52-71-12):
 - (a) Disconnect the connector from the Locked Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector for the Locked Proximity Sensor, and connector DM32025AE at the E4-1 shelf:

PED LOCKED PROX SENSOR

	Sensor S52110 & Sensor S52026	PSEU 2 CONN
PED 5L	DS52110	DM32025AE
	pin 2	pin B1
	pin 3	pin B12
PED 5R	DS52110	DM32025AE
	pin 2	pin F11
	pin 3	pin F12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Reconnect the connector to the Locked Proximity Sensor.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Locked Proximity Sensor. This is the task: Passenger Entry Door Closed and Latched Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the applicable Circuit Card in PSEU 2. These are the tasks:

NOTE: Circuit Card M32025-B03 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B04 is for L (R) Doors 4 and 5.

 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

EFFECTIVITY
ARO ALL

52-11 TASK 851



777-200/300 FAULT ISOLATION MANUAL

- (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

H. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
 - (a) Re-install the door lining.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

852. Door 2L/2R, 3L/3R, 4L/4R Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-22070, 52-22080, 52-22090, 52-22100, 52-22110, 52-22120, 52-22130, 52-22140, 52-22150, 52-22160, 52-22170, 52-22180, 52-22190, 52-22200, 52-22210, 52-22220, 52-22230, 52-22240, 52-22250, 52-22260, 52-22280, 52-22290, 52-22300.

B. Description

- (1) 52-22070: Target Closed and Latched (Door 2L) is out of position.
- (2) 52-22080: Target Flight Lock Disengaged (Door 2L) is out of position.
- (3) 52-22090: Target Flight Lock Engaged (Door 2L) is out of position.
- (4) 52-22100: Target Locked (Door 2L) is out of position.
- (5) 52-22110: Target Closed and Latched (Door 2R) is out of position.
- (6) 52-22120: Target Flight Lock Disengaged (Door 2R) is out of position.
- (7) 52-22130: Target Flight Lock Engaged (Door 2R) is out of position.
- (8) 52-22140: Target Locked (Door 2R) is out of position.
- (9) 52-22150: Target Closed and Latched (Door 3L) is out of position.
- (10) 52-22160: Target Flight Lock Disengaged (Door 3L) is out of position.
- (11) 52-22170: Target Flight Lock Engaged (Door 3L) is out of position.
- (12) 52-22180: Target Locked (Door 3L) is out of position.
- (13) 52-22190: Target Closed and Latched (Door 3R) is out of position.
- (14) 52-22200: Target Flight Lock Disengaged (Door 3R) is out of position.
- (15) 52-22210: Target Flight Lock Engaged (Door 3R) is out of position.
- (16) 52-22220: Target Locked (Door 3R) is out of position.
- (17) 52-22230: Target Closed and Latched (Door 4L) is out of position.
- (18) 52-22240: Target Flight Lock Disengaged (Door 4L) is out of position.
- (19) 52-22250: Target Flight Lock Engaged (Door 4L) is out of position.
- (20) 52-22260: Target Locked (Door 4L) is out of position.
- (21) 52-22270: Target Closed and Latched (Door 4R) is out of position.

EFFECTIVITY
ARO ALL

52-11 TASKS 851-852

D633W103-ARO

Page 261
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

- (22) 52-22280: Target Flight Lock Disengaged (Door 4R) is out of position.
- (23) 52-22290: Target Flight Lock Engaged (Door 4R) is out of position.
- (24) 52-22300: Target Locked (Door 4R) is out of position.

C. Possible Causes

- (1) Target Closed and Latched
- (2) Target Flight Lock Disengaged
- (3) Target Flight Lock Engaged
- (4) Target Locked

D. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

E. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the door.
- (2) Remove the applicable Door Lining to get access to the Proximity Sensor and its Target.
- (3) Do a check of the applicable Proximity Sensor as follows:
 - NOTE: When the door is locked, the Proximity Sensor indicates "TARGET FAR". Look for unwanted material that actuated the sensor.
 - (a) Look for a Sensor Actuator/Deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (4) If there is material debris or a Sensor Actuator/Deactuator near the sensor, do these steps:
 - (a) Remove the material debris or the Sensor Actuator/Deactuator.
 - (b) If necessary, replace the target.
 - (c) Do the applicable procedure below to adjust the Proximity Sensor.
 - 1) Do this task: Passenger Entry Door Closed and Latched Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-802.
 - 2) Do this task: Vent Door Locked Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-801.
 - 3) Do this task: Flight Lock Engaged/Disengaged Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-000-801.
 - (d) Close, latch and lock the door.
 - (e) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-11 TASK 852

D633W103-ARO

Page 262
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

F. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
 - (a) Re-install the door lining.

————— END OF TASK —————

853. Door 5L/5R Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-22302, 52-22304, 52-22306, 52-22308, 52-22312, 52-22314, 52-22316, 52-22318.

B. Description

- (1) This task is for these maintenance messages:
 - (a) 52-22302: Target Closed and Latched (Door 5L) is out of position.
 - (b) 52-22304: Target Flight Lock Disengaged (Door 5L) is out of position.
 - (c) 52-22306: Target Flight Lock Engaged (Door 5L) is out of position.
 - (d) 52-22308: Target Locked (Door 5L) it is out of position.
 - (e) 52-22312: Target Closed and Latched (Door 5R) is out of position.
 - (f) 52-22314: Target Flight Lock Disengaged (Door 5R) is out of position.
 - (g) 52-22316: Target Flight Lock Engaged (Door 5R) is out of position.
 - (h) 52-22318: Target Locked (Door 5R) is out of position.

C. Possible Causes

- (1) Target Closed and Latched
- (2) Target Flight Lock Disengaged
- (3) Target Flight Lock Engaged
- (4) Target Locked

D. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

E. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01): Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the door.
- (2) Remove the applicable Door Lining to get access to the Proximity Sensor and its Target.

EFFECTIVITY
ARO ALL

52-11 TASKS 852-853

D633W103-ARO

Page 263
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (3) Do a check of the applicable Proximity Sensor as follows:
NOTE: When the door is locked, the proximity sensor signals "TARGET FAR". Look for unwanted material that actuated the sensor.
 - (a) Look for a Sensor Actuator/Deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (4) If there is material debris or a Sensor Actuator/Deactuator near the sensor, do these steps:
 - (a) Remove the material debris or the Sensor Actuator/Deactuator.
 - (b) If necessary, replace the target.
 - (c) Do the applicable procedure below to adjust the Proximity Sensor.
 - 1) Do this task: Passenger Entry Door Closed and Latched Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-802.
 - 2) Do this task: Vent Door Locked Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-900-801.
 - 3) Do this task: Flight Lock Engaged/Disengaged Proximity Sensor Removal, Installation, and Adjustment, AMM TASK 52-71-01-000-801.
 - (d) Close, latch and lock the door.
 - (e) Do the Repair Confirmation at the end of this task.

F. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
 - (a) Re-install the door lining.

————— **END OF TASK** —————

854. Door 2L/2R, 3L/3R, 4L/4R Flight Lock Relay Over Current Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-23010, 52-23020, 52-23030, 52-23060, 52-23070, 52-23080.

B. Description

- (1) This task is for these maintenance messages:
 - (a) 52-23010: CCA, AUX Driver in PSEU 1 Analog Output Discretes are connected incorrectly (Door 2L).
 - (b) 52-23020: CCA, AUX Driver in PSEU 1 Analog Output Discretes are connected incorrectly (Door 3L).
 - (c) 52-23030: CCA, AUX Driver in PSEU 1 Analog Output Discretes are connected incorrectly (Door 4L).
 - (d) 52-23060: CCA, AUX Driver in PSEU 1 Analog Output Discretes are connected incorrectly (Door 2R).
 - (e) 52-23070: CCA, AUX Driver in PSEU 1 Analog Output Discretes are connected incorrectly (Door 3R).
 - (f) 52-23080: CCA, AUX Driver in PSEU 1 Analog Output Discretes are connected incorrectly (Door 4R).

C. Possible Causes

- (1) Wiring

EFFECTIVITY
ARO ALL

52-11 TASKS 853-854

D633W103-ARO

Page 264
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (2) Door 2L Flight Lock Relay, K52102
- (3) Door 2R Flight Lock Relay, K52202
- (4) Door 3L Flight Lock Relay, K52103
- (5) Door 3R Flight Lock Relay, K52203
- (6) Door 4L Flight Lock Relay, K52104
- (7) Door 4R Flight Lock Relay, K52204
- (8) Proximity Sensing Electronics Unit (PSEU) Circuit Card

NOTE: Circuit Card M32025-B04 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B03 is for L (R) Doors 4 and 5.

D. Related Data

- (1) WDM 52-11-11
- (2) WDM 52-11-12

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), then there was an intermittent problem.

F. Fault Isolation Procedure

- (1) Do a wiring check as follows (WDM 52-11-11, WDM 52-11-12):
 - (a) Remove the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - (b) Disconnect the applicable connector at the Power Management Panel.
 - (c) Do a wiring check between these pins of the PSEU 1 connector and the connector at the Power Management Panel:

LEFT PED FLT LOCK CNTRL		
	PSEU 1	P110 PNL
PED 2L	DM32021AD pin C1	D11032 pin 47
PED 3L	DM32021AD pin E1	D21032 pin 48
PED 4L	DM32021AD pin G1	D11032 pin 49

EFFECTIVITY
ARO ALL

52-11 TASK 854



777-200/300
FAULT ISOLATION MANUAL

RIGHT PED FLT LOCK CNTRL

	PSEU 1	P210 PNL
PED 2R	DM32021AD	D21032
	pin D2	pin 36
PED 3R	DM32021AD	D21032
	pin F2	pin 35
PED 4L	DM32021AD	D11032
	pin G1	pin 49

- (d) If you find a problem with the wiring, then do these steps:
- 1) Repair the wiring.
 - 2) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Reconnect connector D11032 (D21032) at the applicable Left (Right) Power Management Panel, P110 (P210).
 - 4) Do the Repair Confirmation at the end of this task.
- (2) Replace the applicable Flight Lock Relay in the Power Management Panel (WDM 52-11-11, WDM 52-11-12) :

DOOR	FLIGHT LOCK RELAY
PED 2L	K52102
PED 2R	K52202
PED 3L	K52103
PED 3R	K52203
PED 4L	K52104
PED 4R	K52204

- (a) Do the Repair Confirmation at the end of this task.
- (3) Replace the applicable Circuit Card in PSEU 1. These are the tasks:
- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
- NOTE: Circuit Card M32025-B04 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B03 is for L (R) Doors 4 and 5.
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
- (a) Re-install the door lining.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

————— **END OF TASK** —————

EFFECTIVITY
ARO ALL

52-11 TASK 854

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

855. Door 5L/5R Flight Lock Relay Over Current Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-23040, 52-23090.

B. Description

- (1) This task is for these maintenance messages:
 - (a) 52-23040: CCA, AUX Driver in PSEU 1 Analog Output Discretes are connected incorrectly (Door 5L).
 - (b) 52-23090: CCA, AUX Driver in PSEU 1 Analog Output Discretes are connected incorrectly (Door 5R).

C. Possible Causes

- (1) Wiring
- (2) Door 5L Flight Lock Relay, K52106
- (3) Door 5R Flight Lock Relay, K52206
- (4) PSEU Circuit Card

NOTE: Circuit Card M32025-B04 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B03 is for L (R) Doors 4 and 5.

D. Related Data

- (1) WDM 52-11-11
- (2) WDM 52-11-12

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), then there was an intermittent problem.

F. Fault Isolation Procedure

- (1) Do a wiring check as follows (WDM 52-11-11, WDM 52-11-12):
 - (a) Remove the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (b) Disconnect the applicable connector at the Power Management Panel.
 - (c) Do a wiring check between these pins of the PSEU 1 connector and the connector at the Power Management Panel:

	PED Flight Lock Relay	
		P110 & P210
	PSEU 1	PNL
PED 5L	DM32021AD	D11032
	pin J1	pin 50
PED 5R	DM32021AD	D21032
	pin K2	pin 56

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.

EFFECTIVITY
ARO ALL

52-11 TASK 855



**777-200/300
FAULT ISOLATION MANUAL**

- 2) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Reconnect the applicable connector to the Flight Lock Actuator.
 - 4) Reconnect connector D11032 (D21032) to the applicable Left (Right) Power Management Panel, P110 (P210).
 - 5) Do the Repair Confirmation at the end of this task.
- (2) Replace the applicable Flight Lock Relay in the Power Management Panel (WDM 52-11-11, WDM 52-11-12) :

PED 5L	K52106
PED 5R	K52206

- (a) Do the Repair Confirmation at the end of this task.
 - (3) Replace the applicable Circuit Card in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
- NOTE: Circuit Card M32025-B04 is for L (R) Doors 1, 2, and 3. Circuit Card M32025-B03 is for L (R) Doors 4 and 5.
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem. Do these steps to complete the tasks:
 - (a) Re-install the door lining.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the Fault Isolation Procedure at the subsequent step.

———— **END OF TASK** ————

EFFECTIVITY
ARO ALL

52-11 TASK 855

D633W103-ARO

Page 268
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

801. FLCD Latch Range Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11000.

B. Description

- (1) 52-11000: Latch Range Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Latch Range Forward Cargo Door Proximity Sensor, S52001
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32021-A07
- (4) PSEU 1, M32021

D. Related Data

- (1) WDM 52-34-11

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Latch Range Proximity Sensor, S52001.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52001 from the Latch Range Proximity Sensor, S52001.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52001 at the Latch Range Proximity Sensor, S52001, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52001	DM32021AE
pin 2	pin A7
pin 3	pin A8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.

EFFECTIVITY
ARO ALL

52-34 TASK 801



**777-200/300
FAULT ISOLATION MANUAL**

- 2) Re-connect connector DS52001.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the repair confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-connect connector DS52001.
- (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Latch Range Proximity Sensor, S52001. This is the task: Latch Range Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-801.
- (a) Do the repair confirmation at the end of this task:
- (4) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 1. These are the tasks:
- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
- (a) Do the repair confirmation at the end of this task.
- (5) Replace the PSEU 1, M32021. These are the tasks:
- Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

802. FLCD Unlatched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11010.

B. Description

- (1) 52-11010: Unlatched Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Unlatched Forward Cargo Door Proximity Sensor, S52002
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32021-A07
- (4) PSEU 1, M32021

D. Related Data

- (1) WDM 52-34-11

EFFECTIVITY
ARO ALL

52-34 TASKS 801-802

D633W103-ARO

Page 202
Sep 05/2017



777-200/300 FAULT ISOLATION MANUAL

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Unlatched Proximity Sensor, S52002.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52002 from the Unlatched Proximity Sensor, S52002.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52002 at the Unlatched Proximity Sensor, S52002, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52002	DM32021AE
pin 2	pin B7
pin 3	pin B8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52002.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-connect connector DS52002.
 - (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Unlatched Proximity Sensor, S52002. This is the task: Unlatched and Latched Proximity Sensors Removal, Installation and Adjustment, AMM TASK 52-34-20-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801

EFFECTIVITY
ARO ALL

52-34 TASK 802



777-200/300
FAULT ISOLATION MANUAL

- PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
- (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

803. FLCD Door Up Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11020.

B. Description

- (1) 52-11020: Up Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Up Forward Cargo Door Proximity Sensor, S52003
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32021-A07
- (4) PSEU 1, M32021

D. Related Data

- (1) WDM 52-34-11

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:

EFFECTIVITY
ARO ALL

52-34 TASKS 802-803

D633W103-ARO

Page 204
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (a) Open the Forward Large Cargo Door (FLCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52003 from the Door Up Proximity Sensor, S52003.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52003 at the Door Up Proximity Sensor, S52003, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52003	DM32021AE
pin 2	pin C7
pin 3	pin C8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52003.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-connect connector DS52003.
- (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Door Up Proximity Sensor, S52003. This is the task: Door Up Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-803.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message, (or if the message does not show) you corrected the problem.
 - (a) Close the FLCD
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

EFFECTIVITY
ARO ALL

52-34 TASK 803

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

804. FLCD Handle Unlocked Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11030.

B. Description

- (1) 52-11030: Handle Unlocked Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Handle Unlocked Forward Cargo Door Proximity Sensor, S52004
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32021-A07
- (4) PSEU 1, M32021

D. Related Data

- (1) WDM 52-34-11

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Handle Unlocked Proximity Sensor, S52004.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52004 from the Handle Unlocked Proximity Sensor, S52004.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52004 at the Handle Unlocked Proximity Sensor, S52004, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52004	DM32021AE
pin 2	pin D7
pin 3	pin D8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.

EFFECTIVITY
ARO ALL

52-34 TASK 804



**777-200/300
FAULT ISOLATION MANUAL**

- 2) Re-connect connector DS52004.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-connect connector DS52004.
- (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Handle Unlocked Proximity sensor, S52004. This is the task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
- (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 1. These are the tasks:
- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
- (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the Proximity Sensor Electronics Unit (PSEU) 1, M32021. These are the tasks:
- Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

805. FLCD Latched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11040.

B. Description

- (1) 52-11040: Latched Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Latched Forward Cargo Door Proximity Sensor, S52005
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32021-A07
- (4) PSEU 1, M32021

D. Related Data

- (1) WDM 52-34-11

EFFECTIVITY
ARO ALL

52-34 TASKS 804-805

D633W103-ARO

Page 207
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Latched Proximity Sensor, S52005.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52005 from the Latched Proximity Sensor, S52005.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52005 at the Latched Proximity Sensor, S52005, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52005	DM32021AE
pin 2	pin E7
pin 3	pin E8
 - (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52005.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-connect connector DS52005.
 - (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Latched Proximity Sensor, S52005. This is the task: Unlatched and Latched Proximity Sensors Removal, Installation and Adjustment, AMM TASK 52-34-20-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801

EFFECTIVITY
ARO ALL

52-34 TASK 805



**777-200/300
FAULT ISOLATION MANUAL**

- PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
- (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message, (or if the message does not show) you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

806. FLCD Door Control Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-11230, 52-11240, 52-11250, 52-11260, 52-11270.

B. Description

- (1) 52-11230: Forward Cargo Door Handle Unlocked Target is out of position.
- (2) 52-11240: Forward Cargo Door Latched Range Target is out of position.
- (3) 52-11250: Forward Cargo Door Latched Target is out of position.
- (4) 52-11260: Forward Cargo Door Unlatched Target is out of position.
- (5) 52-11270: Forward Cargo Door Up Target is out of position.

C. Possible Causes

- (1) Wiring
- (2) Forward Cargo Door Handle Unlocked Target
- (3) Forward Cargo Door Handle Unlocked Proximity Sensor, S52004
- (4) Forward Cargo Door Latched Range Target
- (5) Forward Cargo Door Latched Range Proximity Sensor, S52001
- (6) Forward Cargo Door Latched Target
- (7) Forward Cargo Door Latched Proximity Sensor, S52005
- (8) Forward Cargo Door Unlatched Target
- (9) Forward Cargo Door Unlatched Proximity Sensor, S52002
- (10) Forward Cargo Door Up Target
- (11) Forward Cargo Door Up Proximity Sensor, S52003
- (12) Circuit Card Assembly, Proximity Driver in PSEU 1, M32021-A07
- (13) PSEU 1, M32021

D. Related Data

- (1) WDM 52-71-15

EFFECTIVITY
ARO ALL

52-34 TASKS 805-806

D633W103-ARO

Page 209
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the applicable Door Control Proximity Sensor and its Target.
- (2) Do a check on the applicable Door Control Proximity Sensor as follows:
 - (a) Look for a sensor actuator/deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (3) If there is material debris or a sensor actuator/deactuator near the sensor, do these steps:
 - (a) Remove the material debris or the sensor actuator/deactuator.
 - (b) Replace the target if it is necessary.
 - (c) Do the applicable procedure below to adjust the applicable Door Indication Proximity Sensor.
 - 1) Do this task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
NOTE: Only do the Adjustment.
 - 2) Do this task: Latch Range Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-801.
NOTE: Only do the Adjustment.
 - 3) Do this task: Unlatched and Latched Proximity Sensors Removal, Installation and Adjustment, AMM TASK 52-34-20-900-802.
NOTE: Only do the Adjustment.
 - 4) Do this task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
NOTE: Only do the Adjustment.
 - (d) Close, latch and lock the door.
 - (e) Do the Repair Confirmation at the end of this task.
- (4) Do this check of the wiring:
 - (a) Disconnect the applicable connector from the applicable Door Control Proximity Sensor.

EFFECTIVITY
ARO ALL

52-34 TASK 806

D633W103-ARO

Page 210
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

- (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
- (c) Do a wiring check between these pins of the connector at the Proximity Sensor and connector DM32021AE at the E1-5 shelf (WDM 52-71-15):

	SENSOR CONNECTOR	PSEU CONNECTOR
HANDLE UNLOCKED	DS52004	DM32021AE
	PIN 2	PIN D7
	PIN 3	PIN D8
LATCH RANGE	DS52001	DM32021AE
	PIN 2	PIN A7
	PIN 3	PIN A8
LATCHED	DS52005	DM32021AE
	PIN 2	PIN E7
	PIN 3	PIN E8
UNLATCHED	DS52002	DM32021AE
	PIN 2	PIN B7
	PIN 3	PIN B8
UP	DS52003	DM32021AE
	PIN 2	PIN C7
	PIN 3	PIN C8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect applicable Proximity Sensor connector.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-connect applicable Proximity Sensor connector.
- (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (5) Replace the applicable Door Control Proximity Sensor.
 - (a) Do the applicable procedure below to replace the Applicable Door Control Proximity Sensor.
 - 1) Do this task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
 - 2) Do this task: Latch Range Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-801.

EFFECTIVITY
ARO ALL

52-34 TASK 806



**777-200/300
FAULT ISOLATION MANUAL**

- 3) Do this task: Unlatched and Latched Proximity Sensors Removal, Installation and Adjustment, AMM TASK 52-34-20-900-802.
- 4) Do this task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
 - (b) Do the Repair Confirmation at the end of this task.
- (6) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (7) Replace the PSEU 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

807. FLCD Closed Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11500.

B. Description

- (1) 52-11500: Closed Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Closed Forward Cargo Door Proximity Sensor, S52021
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32025-A07
- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-34 TASKS 806-807

D633W103-ARO

Page 212
Sep 05/2017



777-200/300 FAULT ISOLATION MANUAL

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52021 from the Closed Proximity Sensor, S52021.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52021 at the Closed Proximity Sensor, S52021, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52021	DM32025AE
pin 2	pin A9
pin 3	pin A10
 - (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52025.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-connect connector DS52025.
 - (g) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Closed Proximity Sensor, S52021. This is the task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-34 TASK 807



777-200/300
FAULT ISOLATION MANUAL

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

808. FLCD Locked Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11510.

B. Description

- (1) 52-11510: Locked Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Locked Forward Cargo Door Proximity Sensor, S52022
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32025-A07
- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Locked Proximity Sensor, S52022.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52022 from the Locked Proximity Sensor, S52022.
 - (b) Remove the Proximity Sensor Electronics unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

EFFECTIVITY
ARO ALL

52-34 TASKS 807-808

D633W103-ARO

Page 214
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (c) Do a wiring check between these pins of connector DS52022 at the Locked Proximity Sensor, S52022, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52022	DM32025AE
pin 2	pin C9
pin 3	pin C10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52022.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-connect connector DS52022.
- (g) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (3) Replace the Locked Proximity Sensor, S52022. This is the task: Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-803.

- (a) Do the Repair Confirmation at the end of this task.

- (4) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 2. These are the tasks:

- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
- PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

- (a) Do the Repair Confirmation at the end of this task.

- (5) Replace the PSEU 2, M32025. These are the tasks:

- Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
- Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801

- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

809. FLCD Latched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11540.

B. Description

- (1) 52-11540: Latched Forward Cargo Door Proximity Sensor circuit is open or shorted.

EFFECTIVITY
ARO ALL

52-34 TASKS 808-809



777-200/300
FAULT ISOLATION MANUAL

C. Possible Causes

- (1) Wiring
- (2) Latched Forward Cargo Door Proximity Sensor, S52042
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32025-A07
- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52042 from the Latched Proximity Sensor, S52042.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52042 at the Latched Proximity Sensor, S52042, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52042	DM32025AE
pin 2	pin B9
pin 3	pin B10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52025.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-connect connector DS52025.
- (g) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

EFFECTIVITY
ARO ALL

52-34 TASK 809



777-200/300
FAULT ISOLATION MANUAL

- (3) Replace the Latched Proximity Sensor, S52042. This is the task: Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

810. FLCD Lift Problems (Manual Operation OK) - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) or proximity sensor electronics unit (PSEU) 1 shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD or proximity sensor electronics unit (PSEU) 1 card does not show in the present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Unlock the door.
 - (b) Unlatch and unhook the door electrically.
 - (c) Make sure that the door will not lift electrically.
 - (d) Open the door manually.
 - (e) Make sure the door lowers electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.

EFFECTIVITY
ARO ALL

52-34 TASKS 809-810

D633W103-ARO

Page 217
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (c) Do the specified fault isolation task.

B. Fault Isolation Procedure

- (1) Do these steps to replace the hinge up relay:

- (a) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
- (c) Replace the hinge up relay, K52003 (WDM 52-34-11).
- (d) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (e) Hold the external door control switch, S52006, in the open position for 10 seconds.
 - (f) If the door lifted while you held the switch in the open position, you corrected the fault. Re-install the cargo compartment lining.
 - (g) If the door did not lift while you held the switch in the open position, then continue.
- (2) Do this check of the wiring between the hinge up relay and the unlatch relay:
 - (a) Remove the hinge up relay, K52003.
 - (b) Remove the unlatch relay, K52002.
 - (c) Do a wiring check between these pins of connector DK52003 at the hinge up relay, K52003, and connector DK52002 at the unlatch relay, K52002 (WDM 52-34-11):

DK52003	DK52002
pin X1	pin X1

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge up relay, K52003.
 - 3) Re-install the unlatch relay, K52002.
 - 4) Hold the external door control switch, S52006, in the open position for 10 seconds.
 - 5) The door lifted while you held the switch in the open position, you corrected the fault. Re-install the cargo compartment lining.

EFFECTIVITY
ARO ALL

52-34 TASK 810



777-200/300
FAULT ISOLATION MANUAL

- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the unlatch relay, K52002.
- (3) Do this check of the wiring between the hinge up relay and the hinge down relay:
 - (a) Remove the hinge down relay, K52004.
 - (b) Do a wiring check between these pins of connector DK52003 at the hinge up relay, K52003, and connector DK52004 at the hinge down relay, K52004 (WDM 52-34-11):

DK52003	DK52004
pin A1	pin A3
pin B1	pin C3
pin C1	pin B3

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge up relay, K52003.
 - 3) Re-install the hinge down relay, K52004.
 - 4) Hold the external door control switch, S52006, in the open position for 10 seconds.
 - 5) If the door lifted while you held the switch in the open position, you corrected the fault. Re-install the cargo compartment lining.
- (d) If you do not find a problem with the wiring, then continue.
- (e) Re-install the hinge down relay, K52004.
- (4) Do this check of the wiring between the hinge up relay and the Proximity Sensor Electronics Unit (PSEU) 1:
 - (a) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (b) Do a wiring check between these pins of connector DK52003 at the hinge up relay, K52003, and connector DM32021AE at the PSEU 1, M32021 (WDM 52-34-11):

DK52003	DM32021AE
pin X2	pin B14

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the hinge up relay, K52003.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Hold the external door control switch, S52006, in the open position for 10 seconds.
 - 5) If the door lifted while you held the switch in the open position, you corrected the fault. Re-install the cargo compartment lining.

————— END OF TASK —————

811. FLCD Door Indication Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-12320, 52-12330, 52-12340.

EFFECTIVITY ARO ALL

52-34 TASKS 810-811



777-200/300
FAULT ISOLATION MANUAL

B. Description

- (1) 52-12320: Forward Cargo Door Closed Target is out of position.
- (2) 52-12320: Forward Cargo Door Latched Target is out of position.
- (3) 52-12320: Forward Cargo Door Locked Target is out of position.

C. Possible Causes

- (1) Forward Cargo Door Closed Target
- (2) Forward Cargo Door Latched Target
- (3) Forward Cargo Door Locked Target

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the applicable Door Indication Proximity Sensor and its Target.
- (2) Do a check on the applicable Door Indication Proximity Sensor as follows:
 - (a) Look for a sensor actuator/deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (3) If there is material debris or a sensor actuator/deactuator near the sensor, do these steps:
 - (a) Remove the material debris or the sensor actuator/deactuator.
 - (b) Replace the target if it is necessary.
 - (c) Do the applicable procedure below to adjust the Door Indication Proximity Sensor.
 - 1) Do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-801.
NOTE: Only do the Adjustment.
 - 2) Do this task: Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-802.
NOTE: Only do the Adjustment.

EFFECTIVITY
ARO ALL

52-34 TASK 811

D633W103-ARO

Page 220
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

3) Do this task: Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-803.

NOTE: Only do the Adjustment.

- (d) Close, latch and lock the door.
- (e) Do the Repair Confirmation at the end of this task.

(4) Do this check of the wiring:

- (a) Disconnect the applicable connector from the applicable Door Indication Proximity Sensor.
- (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
- (c) Do a wiring check between these pins of the connector at the Proximity Sensor and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

	SENSOR CONNECTOR	PSEU CONNECTOR
LATCHED	DS52042	DM32025AE
	PIN 2	PIN B9
	PIN 3	PIN B10
LOCKED	DS52022	DM32025AE
	PIN 2	PIN C9
	PIN 3	PIN C10
CLOSED	DS52021	DM32025AE
	PIN 2	PIN A9
	PIN 3	PIN A10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect applicable Proximity Sensor connector.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

(5) Replace the applicable Door Indication Proximity Sensor.

- (a) Do the applicable procedure below to replace the applicable Door Indication Proximity Sensor.
 - 1) Do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-801.
 - 2) Do this task: Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-802.
 - 3) Do this task: Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-803.
- (b) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-34 TASK 811

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

- (6) Replace the Circuit Card Assembly CCA, Proximity, A07 in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (7) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

812. FLCD Unlatch and Unhook Problems (Manual Operation OK) - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) or proximity sensor electronics unit (PSEU) 1 shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD or proximity sensor electronics unit (PSEU) 1 card does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Unlock the door.
 - (b) Hold the DOOR CONTROL switch to the OPEN position.
 - (c) Make sure the door does not unlatch and unhook the door electrically.
 - (d) Release the DOOR CONTROL switch from the OPEN position.
 - (e) Make sure the door will unlatch and unhook manually.
 - (f) Make sure the door will lift electrically.
 - (g) Make sure the door will lower electrically.
 - (h) Make sure the door will latch and hook electrically.
- (3) If the door operated as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.

EFFECTIVITY
ARO ALL

52-34 TASKS 811-812

D633W103-ARO

Page 222
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
- (c) Do the specified fault isolation task.

B. Fault Isolation Procedure

(1) Do these steps to replace the unlatch relay, K52002:

(a) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
- (c) Replace the unlatch relay, K52002 (WDM 52-34-11).
- (d) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (e) Hold the external door control switch, S52006, to the open position for 10 seconds.
- (f) If the door unlatched and unhooked while you held the switch to the open position, you corrected the fault. Re-install the cargo compartment lining.
- (g) If the door did not unlatch and unhook while you held the switch in the open position, then continue.

(2) Do a check of the wiring between the unlatch relay and the hinge up relay.

- (a) Remove the unlatch relay, K52002.
- (b) Remove the hinge up relay, K52003.
- (c) Do a wiring check between these pins of connector DK52003 at the hinge up relay, K52003, and connector DK52002 at the unlatch relay, K52002 (WDM 52-34-11):

DK52003		DK52002
pin X1	.....	pin X1

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge up relay, K52003.
 - 3) Re-install the unlatch relay, K52002.
 - 4) Hold the external door control switch, S52006, in the open position for 20 seconds.

EFFECTIVITY ARO ALL

52-34 TASK 812



777-200/300
FAULT ISOLATION MANUAL

- 5) The door lifted when you held the switch in the open position, you corrected the fault. Re-install the cargo compartment lining.
- (3) Do this check of the wiring between the unlatch relay and the latch relay.
 - (a) Remove the latch relay, K52001.
 - (b) Do a wiring check between these pins of connector DK52002 at the unlatch relay, K52002, and connector DK52001 at the latch relay, K52001 (WDM 52-34-11):

DK52001	DK52002
pin A3	pin A1
pin B3	pin C1
pin C3	pin B1

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the unlatch relay, K52002.
 - 3) Re-install the latch relay, K52001.
 - 4) Hold the external door control switch, S52006, in the open position for 20 seconds.
 - 5) If the door unlatched and unhooked while you held the switch in the open position, you corrected the fault. Re-install the cargo compartment lining.
- (d) If you do not find a problem with the wiring, then continue.
- (e) Re-install the latch relay, K52001.
- (4) Do this check of the wiring between the unlatch relay and proximity sensor electronics unit (PSEU) 1.
 - (a) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (b) Do a wiring check between these pins of connector DK52002 at the unlatch relay, K52002, and connector DM32021AE at the PSEU 1, M32021 (WDM 52-34-11):

DK52002	DM32021AE
pin X2	pin F14

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the unlatch relay, K52002.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Hold the external door control switch, S52006, in the open position for 10 seconds.
 - 5) If the door unlatched and unhooked while you held the switch in the open position, you corrected the fault. Re-install the cargo compartment lining.
- (d) If you do not find a problem with the wiring, then continue.
- (e) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

————— **END OF TASK** —————

EFFECTIVITY ARO ALL

52-34 TASK 812



777-200/300
FAULT ISOLATION MANUAL

813. FLCD Unlatch and Unhook Problems (Electrical or Manual) - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) or proximity sensor electronics unit (PSEU) 1 shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD or proximity sensor electronics unit (PSEU) 1 card does not show in the Present Leg Faults, then continue.
- (2) Do this check of the FLCD operation:
 - (a) Unlock the door.
 - (b) Hold the DOOR CONTROL switch to the OPEN position.
 - (c) Make sure the door does not unlatch and unhook electrically.
 - (d) Release the DOOR CONTROL switch from the OPEN position.
 - (e) Try to unlatch and unhook the door manually (obey the instructions on the door).
 - (f) Make sure the door does not unlatch and unhook manually.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified fault isolation task.

B. Fault Isolation Procedure

- (1) Try to open the door manually.
 - (a) If a torque of 80 pound-inches or more is necessary when you turn the tool to open the door, then do these steps:
 - 1) Do this task: Open the Cargo Door with Failure of the Latch Mechanism or Latch/Hook Power Drive Unit (Jammed), AMM TASK 52-34-00-800-802.
 - 2) If you can unlatch and unhook the door, you corrected the fault.
 - (b) If a torque of less than 80 pound-inches is necessary when you turn the tool to open the door, then continue.
- (2) Replace the Latch/Hook Power Drive, M52228. To replace it,
These are the tasks:
Latch/Hook Power Drive Unit Removal, AMM TASK 52-34-10-000-801,
Latch/Hook Power Drive Unit Installation, AMM TASK 52-34-10-400-801.
 - (a) If you can unlatch and unhook the door, you corrected the fault.

————— **END OF TASK** —————

EFFECTIVITY
ARO ALL

52-34 TASK 813

D633W103-ARO

Page 225
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

814. FLCD Hook and Latch Problems (Manual Operation OK) - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) or proximity sensor electronics unit (PSEU) 1 shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD or proximity sensor electronics unit (PSEU) 1 card does not show in the Present Leg Faults, then continue.
- (2) Do this check of the FLCD operation:
 - (a) Unlock the door.
 - (b) Make sure the door does unlatch and unhook electrically.
 - (c) Make sure the door does lift electrically.
 - (d) Make sure the door does lower electrically.
 - (e) Hold the DOOR CONTROL switch to the CLOSE position.
 - (f) Make sure the door does not latch and hook electrically.
 - (g) Release the DOOR CONTROL switch from the CLOSE position.
 - (h) Make sure the door will latch and hook manually.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified fault isolation task.

B. Fault Isolation Procedure

- (1) Do these steps to replace the latch relay, K52001:
 - (a) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
- (c) Replace the latch relay, K52001 (WDM 52-34-11).

EFFECTIVITY
ARO ALL

52-34 TASK 814



777-200/300
FAULT ISOLATION MANUAL

(d) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (e) Open the door.
- (f) Hold the external door control switch, S52006, in the close position until the door closes.
- (g) If the door latched and hooked while you held the switch in the closed position, you corrected the fault. Re-install the cargo compartment lining.
- (h) If the door did not latch and hook while you held the switch in the closed position, then continue.

(2) Do this check of the wiring between the hinge down relay and the hinge latch relay.

- (a) Remove the hinge down relay, K52004.
- (b) Remove the latch relay, K52001.
- (c) Do a wiring check between these pins of connector DK52004 at the hinge down relay, K52004, and connector DK52001 at the latch relay, K52001 (WDM 52-34-11):

DK52004		DK52001
pin X1	.....	pin X1

(d) If you find a problem with the wiring, then do these steps:

- 1) Repair the wiring.
- 2) Re-install the hinge down relay, K52004.
- 3) Re-install the latch relay, K52001.
- 4) Open the door.
- 5) Hold the external door control switch, S52006, in the close position until the door closes.
- 6) The door latched and hooked when you held the switch in the closed position, you corrected the fault. Re-install the cargo compartment lining.

(e) If you do not find a problem with the wiring, then continue.

(f) Re-install the hinge down relay, K52004.

(3) Do this check of the wiring between the unlatch relay and the latch relay.

- (a) Remove the unlatch relay, K52002.
- (b) Do a wiring check between these pins of connector DK52002 at the unlatch relay, K52002, and connector DK52001 at the latch relay, K52001 (WDM 52-34-11):

DK52001		DK52002
pin A1	.....	pin A3
pin B1	.....	pin B3
pin C1	.....	pin C3

EFFECTIVITY ARO ALL

52-34 TASK 814



**777-200/300
FAULT ISOLATION MANUAL**

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the unlatch relay, K52002.
 - 3) Re-install the latch relay, K52001.
 - 4) Open the door.
 - 5) Hold the external door control switch, S52006, in the close position until the door closes.
 - 6) If the door latched and hooked while you held the switch in the closed position, you corrected the fault. Re-install the cargo compartment lining.
- (d) If you do not find a problem with the wiring, then continue.
- (e) Re-install the unlatch relay, K52002.
- (4) Do this check of the wiring between the latch relay and Proximity Sensor Electronics Unit (PSEU) 1.
 - (a) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (b) Do a wiring check between these pins of connector DK52001 at the latch relay, K52001, and connector DM32021AE at the PSEU 1, M32021 (WDM 52-34-11):

DK52001	DM32021AE
pin X2	pin E14

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the latch relay, K52002.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Open the door.
 - 5) Hold the external door control switch, S52006, in the close position until the door closes.
 - 6) If the door latched and hooked while you held the switch in the closed position, you corrected the fault. Re-install the cargo compartment lining.

————— **END OF TASK** —————

815. FLCD Hook and Latch Problems (Electrical or Manual) - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) or proximity sensor electronics unit (PSEU) 1 shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD or proximity sensor electronics unit (PSEU) 1 card does not show in the Present Leg Faults, then continue.
- (2) Do this check of the FLCD operation:

EFFECTIVITY
ARO ALL

52-34 TASKS 814-815



**777-200/300
FAULT ISOLATION MANUAL**

- (a) Unlock the door.
 - (b) Hold the DOOR CONTROL switch to CLOSE.
 - (c) Make sure the door does not hook and latch electrically.
 - (d) Release the DOOR CONTROL switch from CLOSE.
 - (e) Try to hook and latch the door manually. Obey the instructions on the door.
 - (f) Make sure the door does not hook and latch manually.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
- (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified fault isolation task.

B. Fault Isolation Procedure

- (1) With the forward lower cargo door (FLCD) in the free hang position, manually drive the latch mechanism to see if the mechanism works.
- (a) If the latch mechanism works, do this task: Forward Large Cargo Door Adjustment, AMM TASK 52-34-00-820-801.
 - (b) If the latch mechanism does not work, then continue.
- (2) Try to close the door manually.
- (a) If a torque of 80 pound-inches or more is necessary when you turn the tool to close the door, then do these steps:
 - 1) Do this task: Open the Cargo Door with Failure of the Latch Mechanism or Latch/Hook Power Drive Unit (Jammed), AMM TASK 52-34-00-800-802.
 - 2) If you can hook and latch the door, you corrected the fault.
 - (b) If a torque of less than 80 pound-inches is necessary when you turn the tool to open the door, then continue.
- (3) Replace the Latch/Hook Power Drive, M52228. To replace it,
These are the tasks:
Latch/Hook Power Drive Unit Removal, AMM TASK 52-34-10-000-801,
Latch/Hook Power Drive Unit Installation, AMM TASK 52-34-10-400-801.
- (a) If you can hook and latch the door, you corrected the fault.

————— **END OF TASK** —————

816. FLCD Lower Problems (Manual Operation OK) - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
- (a) If a maintenance message related to the forward large cargo door (FLCD) or proximity sensor electronics unit (PSEU) 1 shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.

EFFECTIVITY
ARO ALL

52-34 TASKS 815-816

D633W103-ARO

Page 229
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

- (b) If a maintenance message related to the FLCD or proximity sensor electronics unit (PSEU) 1 card does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Unlock the door.
 - (b) Unlatch and unhook the door electrically.
 - (c) Make sure that the door will lift electrically.
 - (d) Make sure the door will not lower electrically.
 - (e) Close the door manually.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Replace the hinge down relay, K52004 as follows:
 - (a) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
- (c) Replace the hinge down relay, K52004 (WDM 52-34-11).
- (d) Remove the safety tags and close these circuit breakers:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (e) Hold the external door control switch, S52006, in the close position for 5 seconds.
- (f) If the door closed while you held the switch in the close position, you corrected the fault. Re-install the cargo compartment lining.
- (g) If the door did not close while you held the switch in the close position, then continue.

EFFECTIVITY
ARO ALL

52-34 TASK 816



777-200/300
FAULT ISOLATION MANUAL

- (2) Do this check of the wiring between the hinge down relay and the hinge latch relay:
 - (a) Remove the hinge down relay, K52004.
 - (b) Remove the hinge latch relay, K52001.
 - (c) Do a wiring check between these pins of connector DK52004 at the hinge down relay, K52004, and connector DK52001 at the hinge latch relay, K52001 (WDM 52-34-11):

DK52004	DK52001
pin X1	pin X1

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge down relay, K52004.
 - 3) Re-install the hinge latch relay, K52001.
 - 4) Open the door.
 - 5) Hold the external door control switch, S52006, in the close position for 5 seconds.
 - 6) The door closed while you held the switch in the close position, you corrected the fault. Re-install the cargo compartment lining.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the hinge latch relay, K52001.

- (3) Do this check of the wiring between the hinge up relay and the hinge down relay:
 - (a) Remove the hinge up relay, K52003.
 - (b) Do a wiring check between these pins of connector DK52003 at the hinge up relay, K52003, and connector DK52004 at the hinge down relay, K52004 (WDM 52-34-11):

DK52003	DK52004
pin A3	pin A1
pin B3	pin B1
pin C3	pin C1

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge up relay, K52003.
 - 3) Re-install the hinge down relay, K52004.
 - 4) Open the door.
 - 5) Hold the external door control switch, S52006, in the close position for 5 seconds.
 - 6) If the door closed while you held the switch in the close position, you corrected the fault. Re-install the cargo compartment lining.
 - (d) If you do not find a problem with the wiring, then continue.
 - (e) Re-install the hinge up relay, K52003.
- (4) Do this check of the wiring between the hinge down relay and the proximity sensor electronics unit (PSEU) 1:
 - (a) Remove the PSEU, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

EFFECTIVITY
ARO ALL

52-34 TASK 816



777-200/300
FAULT ISOLATION MANUAL

- (b) Do a wiring check between these pins of connector DK52004 at the hinge down relay, K52004, and connector DM32021AE at the PSEU 1, M32021 (WDM 52-34-11):

DK52004	DM32021AE
pin X2	pin A14

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the hinge down relay, K52004.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Open the door.
 - 5) Hold the external door control switch, S52006, in the close position for 5 seconds.
 - 6) If the door closed while you held the switch in the close position, you corrected the fault. Re-install the cargo compartment lining.

————— **END OF TASK** —————

817. FLCD Does Not Lift or Lower Electrically, Manual Lower OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Unlock the door.
 - (b) Unlatch and unhook the door electrically.
 - (c) Make sure that the door will not lift electrically.
 - (d) Lift the door manually.
 - (e) Make sure the door will not lower electrically.
 - (f) Lower the door manually.
 - (g) Hook and latch the door electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

EFFECTIVITY
ARO ALL

52-34 TASKS 816-817



777-200/300
FAULT ISOLATION MANUAL

B. Fault Isolation Procedure

- (1) These are the tasks:
 Latch/Hook Power Drive Unit Removal, AMM TASK 52-34-10-000-801,
 Latch/Hook Power Drive Unit Installation, AMM TASK 52-34-10-400-801.
 - (a) Lift and lower the door.
 - (b) If the door lifted and lowered while you moved the switch, you corrected the fault.
 - (c) If the door did not lift or lower while you moved the switch in the applicable position, then continue.
- (2) Do this check of the wiring between the hinge up relay, K52003, and the hinge Power Drive Unit (PDU), M52227, as follows:
 - (a) Remove the applicable cargo compartment lining to get access to the back of the P35 panel and FLCD.
 - (b) Remove the hinge up relay, K52003.
 - (c) Disconnect the connector DM52227 from the hinge PDU, M52227.
 - (d) Do a wiring check between these pins of connector DK52003 at the hinge up relay, K52003, and connector DM52227 at the hinge PDU, M52227 (WDM 52-34-11):

DK52003	DM52227
pin A2	pin 1
pin B2	pin 3
pin C2	pin 2

- (e) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge up relay, K52003.
 - 3) Re-connect the hinge PDU connector, DM52227.
 - 4) Lift and lower the door.
 - 5) If the door lifted and lowered while you moved the switch, you corrected the fault. Re-install the cargo compartment linings.
- (f) If you do not find a problem with the wiring, then continue.
- (g) Re-install the hinge up relay, K52003.
- (h) Re-connect the hinge PDU connector, DM52227.
- (3) Do this check of the wiring between the hinge down relay and the hinge latch relay:
 - (a) Remove the hinge down relay, K52004.
 - (b) Remove the hinge latch relay, K52001.
 - (c) Do a wiring check between these pins of connector DK52004 at the hinge down relay, K52004, and connector DK52001 at the hinge latch relay, K52001 (WDM 52-34-11):

DK52004	DK52001
pin A2	pin A2
pin B2	pin B2
pin C2	pin C2

- (d) If you find a problem with the wiring, then do these steps:

EFFECTIVITY
ARO ALL

52-34 TASK 817



**777-200/300
FAULT ISOLATION MANUAL**

- 1) Repair the wiring.
- 2) Re-install the hinge down relay, K52004.
- 3) Re-install the hinge latch relay, K52001.
- 4) Lift and lower the door.
- 5) The door closed while you held the switch in the close position, you corrected the fault. Re-install the cargo compartment linings.

————— **END OF TASK** —————

818. FLCD Lift and Lower Electrical Problems (Manual Operation OK) - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Unlock the door.
 - (b) Unlatch and unhook the door electrically.
 - (c) Make sure that the door will not lift electrically.
 - (d) Lift the door manually.
 - (e) Make sure the door will not lower electrically.
 - (f) Lower the door manually.
 - (g) Hook and latch the door electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Do a check of the manual input torque.
 - (a) If you get a torque of less than 80 inch-pounds.

These are the tasks:
Lift Power Drive Unit Removal, AMM TASK 52-34-02-000-801,
Lift Power Drive Unit Installation, AMM TASK 52-34-02-400-801.

EFFECTIVITY
ARO ALL

52-34 TASKS 817-818

D633W103-ARO

Page 234
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

- (b) If you get a torque of more than 80 inch-pounds, do this task: Open the Cargo Door with Failure of the Lift Mechanism, Lift Power Drive Unit, or Rotary Actuator (Jammed), AMM TASK 52-34-00-800-801
 - 1) Try to lift and lower the door.
 - 2) If the door opened while you moved the switch, you corrected the fault.
 - 3) If the door did not open while you moved the switch in the applicable position, then continue.
- (2) Do a check for lift PDU output.
 - (a) Position the door in the free-hang position.
 - (b) Disconnect the output drive shafts from the lift PDU, M52227.
 - (c) Turn the manual input drive and make sure that the lift PDU output couplings turn.
 - 1) If the lift PDU output couplings did not turn,
These are the tasks:
Lift Power Drive Unit Removal, AMM TASK 52-34-02-000-801,
Lift Power Drive Unit Installation, AMM TASK 52-34-02-400-801.
 - 2) If the lift PDU output couplings did turn, then continue.
- (3) Do a check of one of the rotary actuators.
 - (a) Disconnect the drive shaft from the actuator and drive arm from the drive link.
 - (b) Turn the actuator input and make sure that the output shaft turns with a maximum torque of 35 pound-inches.
 - (c) If the torque is more than 35 pound-inches replace the rotary actuator,
These are the tasks:
Rotary Actuator Removal, AMM TASK 52-34-03-000-801,
Rotary Actuator Installation, AMM TASK 52-34-03-400-801.
 - (d) If the torque is satisfactory, then continue.
- (4) Do a check of the other rotary actuator.
 - (a) Disconnect the drive shaft from the actuator and drive arm from the drive link.
 - (b) Turn the actuator input and make sure that the output shaft turns with a maximum torque of 35 pound-inches.
 - (c) If the torque is more than 35 pound-inches replace the rotary actuator,
These are the tasks:
Rotary Actuator Removal, AMM TASK 52-34-03-000-801,
Rotary Actuator Installation, AMM TASK 52-34-03-400-801.
 - (d) If the torque is satisfactory, then continue.
- (5) Do a check for damage and broken components on the lift mechanism. Replace the applicable part of the lift mechanism.
 - (a) If a drive link is damaged,
These are the tasks:
Drive Link Removal, AMM TASK 52-34-05-000-801,
Drive Link Installation, AMM TASK 52-34-05-400-801.
 - (b) If a drive arm is damaged,

EFFECTIVITY
ARO ALL

52-34 TASK 818

D633W103-ARO

Page 235
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

These are the tasks:

Drive Arm Removal, AMM TASK 52-34-05-000-802,

Drive Arm Installation, AMM TASK 52-34-05-400-802.

———— **END OF TASK** ————

819. FLCD Does Not Open Smoothly - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Unlock the door.
 - (b) Unlatch and unhook the door electrically.
 - (c) Make sure the door will not open smoothly electrically or manually.
 - (d) Lower the door.
 - (e) Hook and latch the door.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Move the door by hand and make sure the total displacement is more than 6.5 inches measured at the bottom edge of the door.
 - (a) If the displacement is less than 6.5 inches, the lift mechanism must be adjusted as follows:
 - 1) Do this task: Forward Large Cargo Door Adjustment, AMM TASK 52-34-00-820-801.
NOTE: Only do the Lift Mechanism Adjustment.
 - (b) Do this task: Open the Cargo Door with Failure of the Lift Mechanism, Lift Power Drive Unit, or Rotary Actuator (Jammed), AMM TASK 52-34-00-800-801.

———— **END OF TASK** ————

EFFECTIVITY
ARO ALL

52-34 TASKS 818-819

D633W103-ARO

Page 236
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

820. FLCD Does Not Unlock - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD card does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Make sure the door will not unlock.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) If there is ice, then allow for ice to melt.
 - (a) If the door opened when the ice melted, you corrected the fault.
 - (b) If the door did not open when the ice melted, then continue.
- (2) Do this task: Open the Cargo Door with Failure of the Lock Mechanism (Jammed), AMM TASK 52-34-00-800-803.

————— END OF TASK —————

821. FLCD Does Not Lock - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Make sure the door will not lock.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.

EFFECTIVITY
ARO ALL

52-34 TASKS 820-821

D633W103-ARO

Page 237
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (a) Go to the Observed Faults List at the front of the FIM.
- (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
- (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Do this task: Open the Cargo Door with Failure of the Lock Mechanism (Jammed), AMM TASK 52-34-00-800-803.

————— **END OF TASK** —————

822. FLCD Does Not Unlatch, Unhook, Hook and Latch Electrically, Manual Lower OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FLCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Unlock the door.
 - (b) Make sure that the door will not unlatch and unhook electrically.
 - (c) Unlatch and unhook the door manually.
 - (d) Lift and lower the door electrically.
 - (e) Make sure that the door will not Hook and latch electrically.
 - (f) Hook and latch the door manually.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) These are the tasks:
 - Latch/Hook Power Drive Unit Removal, AMM TASK 52-34-10-000-801,
 - Latch/Hook Power Drive Unit Installation, AMM TASK 52-34-10-400-801.
- (a) Lift and lower the door.
- (b) If the door lifted and lowered while you moved the switch, you corrected the fault.
- (c) If the door did not lift or lower while you moved the switch in the applicable position, then continue.

EFFECTIVITY
ARO ALL

52-34 TASKS 821-822

D633W103-ARO

Page 238
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (2) Do this check of the wiring between the unlatch relay and the Latch Power Drive Unit (PDU):
 - (a) Remove the applicable cargo compartment linings to get access to the back of the P35 panel and FLCD.
 - (b) Remove the unlatch relay, K52002.
 - (c) Disconnect the connector DM52228 from the Latch PDU, M52228.
 - (d) Do a wiring check between these pins of connector DK52002 at the unlatch relay, K52002, and connector DM52228 at the Latch PDU, M52228 (WDM 52-34-11):

DK52002	DM52228
pin A2	pin 3
pin B2	pin 1
pin C2	pin 2

- (e) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the latch relay, K52002.
 - 3) Re-connect the Latch PDU connector, DM52228.
 - 4) Lift and lower the door.
 - 5) If the door lifted and lowered while you moved the switch, you corrected the fault. Re-install the cargo compartment linings.
- (f) If the door did not lift or lower while you moved the switch in the applicable position, then continue.
- (3) Do this check of the wiring between the hinge down relay and the hinge latch relay:
 - (a) Remove the hinge down relay, K52004.
 - (b) Remove the hinge latch relay, K52001.
 - (c) Do a wiring check between these pins of connector DK52004 at the hinge down relay, K52004, and connector DK52001 at the hinge latch relay, K52001 (WDM 52-34-11):

DK52004	DK52001
pin A2	pin A2
pin B2	pin B2
pin C2	pin C2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge down relay, K52004.
 - 3) Re-install the hinge latch relay, K52001.
 - 4) Lift and lower the door.
 - 5) The door lifted and lowered while you moved the switch, you corrected the fault. Re-install the cargo compartment lining.

————— **END OF TASK** —————

824. FLCD Does Not Unlatch, Unhook and Lift Electrically, Manual Operation OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.

EFFECTIVITY	
ARO ALL	

52-34 TASKS 822-824



**777-200/300
FAULT ISOLATION MANUAL**

- (a) If a maintenance message related to the forward large cargo door (FLCD) or proximity sensor electronics unit (PSEU) 1 shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
- (b) If a maintenance message related to the FLCD or proximity sensor electronics unit (PSEU) 1 card does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Unlock the door.
 - (b) Make sure the door will not unlatch and unhook electrically with one or the other of the two FLCD switches.
 - (c) Unlatch and unhook the door manually.
 - (d) Make sure that the door will not lift electrically with one or the other of the two FLCD switches.
 - (e) Lift the door manually.
 - (f) Lower the door electrically.
 - (g) Hook and Latch the door electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) If only the external cargo door control switch, S52006, did not operate.
 - (a) Replace the external cargo door control switch, S52006,
These are the tasks:
External Cargo Door Control Switch Removal, AMM TASK 52-34-22-000-801,
External Cargo Door Control Switch Installation, AMM TASK 52-34-22-400-801.
 - 1) Hold the external cargo door control switch, S52006, in the open position for 10 seconds.
 - 2) If the door unlatched, unhooked and lifted while you held the switch in the open position, you corrected the fault.
 - (b) If the door did not open while you held the switch in the open position, then continue.
- (2) Do this check of the wiring between the external switch and the internal switch:
 - (a) Remove the external cargo door control switch, S52006, do this task: External Cargo Door Control Switch Removal, AMM TASK 52-34-22-000-801.
 - (b) Remove the internal cargo door control switch, S52007 (WDM 52-34-11).
 - (c) Do a wiring check between these pins of the external switch, S52006, and of the internal switch, S52007:

EFFECTIVITY
ARO ALL

52-34 TASK 824

D633W103-ARO

Page 240
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

external switch	internal switch
pin 1	pin 1
pin 2	pin 3

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Hold the external cargo door control switch, S52006, in the open position for 10 seconds.
 - 3) If the door unlatched, unhooked and lifted while you held the switch in the open position, you corrected the fault.
- (e) If the door did not open while you held the switch in the open position, then continue.
- (3) If only the internal cargo door control switch, S52007, did not operate.
 - (a) Replace the internal cargo door control switch, S52007, (WDM 52-34-11).
 - 1) Hold the internal cargo door control switch, S52007, in the open position for 10 seconds.
 - 2) If the door unlatched, unhooked and lifted while you held the switch in the open position, you corrected the fault.
 - (b) If the door did not open while you held the switch in the open position, then continue.
- (4) Do this check of the wiring between the hinge up relay and the external cargo door control switch.
 - (a) Remove the hinge up relay, K52003 .
 - (b) Do a wiring check between these pins of connector DK52003 at the hinge up relay, K52003, and the external cargo door control switch, S52006, (WDM 52-34-11):

DK52003	external switch
pin X1	pin 1

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the hinge up relay, K52003.
 - 3) Hold the external cargo door control switch, S52006, in the open position for 10 seconds.
 - 4) If the door lifted while you held the switch in the open position, you corrected the fault. Re-install the cargo compartment lining.

————— END OF TASK —————

825. FLCD Does Not Lower, Hook and Latch Electrically, Manual Operation OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the forward large cargo door (FLCD) or proximity sensor electronics unit (PSEU) 1 shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.

EFFECTIVITY
ARO ALL

52-34 TASKS 824-825



**777-200/300
FAULT ISOLATION MANUAL**

- (b) If a maintenance message related to the FLCD or proximity sensor electronics unit (PSEU) 1 card does not show in the Present Leg Faults, then continue.
- (2) Do this check of the forward large cargo door (FLCD) operation:
 - (a) Unlock the door.
 - (b) Unlatch and unhook the door electrically.
 - (c) Lift the door electrically.
 - (d) Make sure the door will not lower electrically with one or the other of the two FLCD switches.
 - (e) Lower the door manually.
 - (f) Make sure the door will not hook and latch the door electrically with one or the other of the two FLCD switches.
 - (g) Hook and latch the door manually.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) If only the external cargo door control switch, S52006, did not operate.
 - (a) Replace the external cargo door control switch, S52006,
These are the tasks:
External Cargo Door Control Switch Removal, AMM TASK 52-34-22-000-801,
External Cargo Door Control Switch Installation, AMM TASK 52-34-22-400-801.
 - 1) Hold the external cargo door control switch, S52006, in the open position for 10 seconds.
 - 2) Hold the external cargo door control switch, S52006, in the close position until the door closes.
 - 3) If the door lowered, hooked and latched while you held the switch in the close position, you corrected the fault.
 - (b) If the door did not close while you held the switch in the close position, then continue.
- (2) Do this check of the wiring between the external switch and the internal switch:
 - (a) Remove the external cargo door control switch, S52006, do this task: External Cargo Door Control Switch Removal, AMM TASK 52-34-22-000-801.
 - (b) Remove the internal cargo door control switch, S52007 (WDM 52-34-11).
 - (c) Do a wiring check between these pins of the external switch, S52006, and of the internal switch, S52007:

EFFECTIVITY
ARO ALL

52-34 TASK 825

D633W103-ARO

Page 242
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

external switch	internal switch
pin 6	pin 6
pin 5	pin 3

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Hold the external cargo door control switch, S52006, in the open position for 10 seconds.
 - 3) Hold the external cargo door control switch, S52006, in the close position until the door closes.
 - 4) If the door lowered, hooked and latched while you held the switch in the close position, you corrected the fault.
- (e) If the door did not close while you held the switch in the close position, then continue.
- (3) If only the internal cargo door control switch, S52007, did not operate.
 - (a) Replace the internal cargo door control switch, S52007, (WDM 52-34-11).
 - 1) Hold the internal cargo door control switch, S52007, in the open position for 10 seconds.
 - 2) Hold the internal cargo door control switch, S52007, in the close position until the door closes.
 - 3) If the door lowered, hooked and latched while you held the switch in the close position, you corrected the fault.
 - (b) If the door did not close while you held the switch in the close position, then continue.
- (4) Do this check of the wiring between the hinge down relay and the external cargo door control switch.
 - (a) Remove the hinge down relay, K52004 .
 - (b) Do a wiring check between these pins of connector DK52003 at the hinge down relay, K52004, and the external cargo door control switch, S52006, (WDM 52-34-11):

DK52004	external switch
pin X1	pin 6

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the hinge down relay, K52004.
 - 3) Hold the external cargo door control switch, S52006, in the open position for 10 seconds.
 - 4) Hold the external cargo door control switch, S52006, in the close position until the door closes.
 - 5) If the door lowered, hooked and latched while you held the switch in the close position, you corrected the fault. Re-install the cargo compartment lining.

————— **END OF TASK** —————

EFFECTIVITY ARO ALL

52-34 TASK 825



777-200/300
FAULT ISOLATION MANUAL

826. FLCD Relay Problems - Fault Isolation

A. Maintenance Messages

(1) This task is for maintenance messages: 52-13100, 52-13110, 52-13140, 52-13150.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the applicable relay and proximity sensor electronics unit (PSEU) 1.
 - (a) Do these steps to remove the applicable relay:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
 - 2) Remove the applicable relay (WDM 52-34-11).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the applicable FLCD connector, and connector DM32021AE at the PSEU 1, M32021 (WDM 52-34-11):

PSEU 1	FLCD Relay
(Conn-Pin)	(Conn-Pin)
DM32021AE	DK52001
pin E14	pin X2

DM32021AE	DK52002
pin F14	pin X2

DM32021AE	DK52003
pin B14	pin X2

DM32021AE	DK52004
pin A14	pin X2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the applicable relay (WDM 52-34-11).
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

EFFECTIVITY
ARO ALL

52-34 TASK 826



**777-200/300
FAULT ISOLATION MANUAL**

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- 5) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 6) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (2) Replace the applicable relay (WDM 52-34-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - 2) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the circuit card assembly CCA, Proximity, A08 in PSEU 1.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

827. FLCD Cargo Handling Circuit Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-13120.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

EFFECTIVITY ARO ALL

52-34 TASKS 826-827



777-200/300
FAULT ISOLATION MANUAL

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the door unlatched relay, K33051 and proximity sensor electronics unit (PSEU) 1.
 - (a) Do these steps to remove the door unlatched relay, K33051:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
 - 2) Remove the door unlatched relay, K33051 (WDM 33-37-11).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DK33051 at the door unlatched relay, K33051, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 33-37-11):

PSEU 1	FLCD Relay
(Conn-Pin)	(Conn-Pin)
DM32021AE	DK33051
pin C14	pin X2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the door unlatched relay, K33051 (WDM 33-37-11).
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (2) Replace the door unlatched relay, K33051 (WDM 33-37-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - 2) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the circuit card assembly CCA, Proximity, A08 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

EFFECTIVITY
ARO ALL

52-34 TASK 827



777-200/300
FAULT ISOLATION MANUAL

828. FLCD Door Up Cargo Lighting Circuit Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-13130.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the door fully open relay, K33052 and proximity sensor electronics unit (PSEU) 1.
 - (a) Do these steps to remove the door fully open relay, K33052:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
 - 2) Remove the door fully open relay, K33052 (WDM 33-31-15).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - (c) Do a wiring check between these pins of connector DK33052 at the door fully open relay, K33052, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 33-31-15):

PSEU 1	FLCD Relay
(Conn-Pin)	(Conn-Pin)
DM32021AE	DK33052
pin E14	pin X2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the door fully open relay, K33052 (WDM 33-31-15).
 - 3) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - b) Re-install the cargo compartment lining.
 - 4) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the door fully open relay, K33052 (WDM 33-31-15).
- (2) Do this check of the wiring between the cargo system controller, M25001 and proximity sensor electronics unit (PSEU) 1.
 - (a) Remove the cargo system controller, M25001, do this task: Cargo System Controller (CSC) Removal, AMM TASK 25-53-33-000-804-003.
 - (b) Do a wiring check between these pins of connector DM25001AD at the cargo system controller, M25001, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 25-53-11):

EFFECTIVITY
ARO ALL

52-34 TASK 828



777-200/300
FAULT ISOLATION MANUAL

PSEU 1	Controller
(Conn-Pin)	(Conn-Pin)
DM32021AE	DM25001AD
pin D14	pin E8

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the cargo system controller, M25001. To install it, do this task: Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003.
 - 3) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - b) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) If you do not find a problem with the wiring, then continue.
- (e) Re-install the cargo system controller, M25001. To install it, do this task: Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003.
- (3) Do this check of the wiring between the FLCD door up light, L52001 and proximity sensor electronics unit (PSEU) 1.
 - (a) Remove the FLCD door up light, L52001 (WDM 52-34-11).
 - (b) Do a wiring check between these pins at the FLCD door up light, L52001, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 52-34-11):

PSEU 1	Light (Pin)
(Conn-Pin)	L52001
DM32021AE	L52001
pin D14	pin 2

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the FLCD door up light, L52001 (WDM 52-34-11).
 - 3) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - b) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) If you do not find a problem with the wiring, then continue.
- (e) Re-install the FLCD door up light, L52001 (WDM 52-34-11).
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (4) Replace the FLCD door up light, L52001 (WDM 52-34-11).

EFFECTIVITY
ARO ALL

52-34 TASK 828



**777-200/300
FAULT ISOLATION MANUAL**

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Do these steps to replace the door fully open relay, K33052:
 - (a) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
 - (b) Replace the door fully open relay, K33052 (WDM 33-31-15).
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (d) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the cargo system controller, M25001.
 - (a) Do the following tasks:
 - Cargo System Controller (CSC) Removal, AMM TASK 25-53-33-000-804-003
 - Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003
 - (b) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (c) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the circuit card assembly CCA, Proximity, A08 in PSEU 1.

These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

829. FLCD Door Latched Cargo Lighting Circuit Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-13160.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the FLCD door latched light, L52001 and proximity sensor electronics unit (PSEU) 1.
 - (a) Remove the FLCD door latched light, L52002 (WDM 52-34-11).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

EFFECTIVITY
ARO ALL

52-34 TASKS 828-829

D633W103-ARO

Page 249
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (c) Do a wiring check between these pins at the FLCD door latched light, L52002, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 52-34-11):

PSEU 1	
(Conn-Pin)	Light (Pin)
DM32021AE	L52002
pin D14	pin 2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the FLCD door latched light, L52002 (WDM 52-34-11).
 - 3) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - b) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the FLCD door latched light, L52002 (WDM 52-34-11).
 - (g) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (2) Replace the FLCD door latched light, L52002 (WDM 52-34-11).
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the circuit card assembly CCA, Proximity, A08 in PSEU 1.
- These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

830. FLCD Latch Range Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21000.

B. Description

- (1) 52-21000: Latch Range Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Latch Range Forward Cargo Door Proximity Sensor, S52001
- (3) Circuit Card Assembly, Cargo Door Prox Driver in PSEU 1, M32021-B04

EFFECTIVITY
ARO ALL

52-34 TASKS 829-830



777-200/300
FAULT ISOLATION MANUAL

(4) PSEU 1, M32021

D. Related Data

(1) WDM 52-34-11

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Latch Range Proximity Sensor, S52001.

- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52001 from the Latch Range Proximity Sensor, S52001.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52001 at the Latch Range Proximity Sensor, S52001, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52001	DM32021AE
pin 2	pin A7
pin 3	pin A8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52001.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-connect connector DS52001.
- (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

EFFECTIVITY
ARO ALL

52-34 TASK 830



**777-200/300
FAULT ISOLATION MANUAL**

- (3) Replace the Latch Range Proximity Sensor, S52001. This is the task: Latch Range Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

831. FLCD Unlatched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21010.

B. Description

- (1) 52-21010: Unlatched Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Latch Range Forward Cargo Door Proximity Sensor, S52002
- (3) Circuit Card Assembly, Cargo Door Prox Driver in PSEU 1, M32021-B04
- (4) PSEU 1, M32021

D. Related Data

- (1) WDM 52-34-11

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-34 TASKS 830-831

D633W103-ARO

Page 252
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Unlatched Proximity Sensor, S52002.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52002 from the Unlatched Proximity Sensor, S52002.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52002 at the Unlatched Proximity Sensor, S52002, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52002	DM32021AE
pin 2	pin B7
pin 3	pin B8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52002.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-connect connector DS52002.
 - (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Unlatched Proximity Sensor, S52002. This is the task: Unlatched and Latched Proximity Sensors Removal, Installation and Adjustment, AMM TASK 52-34-20-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly CCA, Cargo Door Prox Driver, B04 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801

EFFECTIVITY ARO ALL

52-34 TASK 831

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

- Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

832. FLCD Door Up Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21020.

B. Description

- (1) 52-21020: Up Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Latch Range Forward Cargo Door Proximity Sensor, S52003
- (3) Circuit Card Assembly, Cargo Door Prox Driver in PSEU 1, M32021-B04
- (4) PSEU 1, M32021

D. Related Data

- (1) WDM 52-34-11

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52003 from the Door Up Proximity Sensor, S52003.

EFFECTIVITY
ARO ALL

52-34 TASKS 831-832

D633W103-ARO

Page 254
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
- (c) Do a wiring check between these pins of connector DS52003 at the Door Up Proximity Sensor, S52003, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52003	DM32021AE
pin 2	pin C7
pin 3	pin C8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52003.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Door Up Proximity Sensor, S52003. This is the task: Door Up Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-803.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

833. FLCD Handle Unlocked Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21030.

B. Description

- (1) 52-21030: Handle Unlocked Forward Cargo Door Proximity Sensor circuit is open or shorted.

EFFECTIVITY ARO ALL

52-34 TASKS 832-833



777-200/300
FAULT ISOLATION MANUAL

C. Possible Causes

- (1) Wiring
- (2) Handle Unlocked Forward Cargo Door Proximity Sensor, S52004
- (3) Circuit Card Assembly, Cargo Door Prox Driver in PSEU 1, M32021-B04
- (4) PSEU 1, M32021

D. Related Data

- (1) WDM 52-34-11

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Handle Unlocked Proximity Sensor, S52004.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52004 from the Handle Unlocked Proximity Sensor, S52004.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52004 at the Handle Unlocked Proximity Sensor, S52004, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52004	DM32021AE
pin 2	pin D7
pin 3	pin D8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52004.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.

EFFECTIVITY
ARO ALL

52-34 TASK 833



**777-200/300
FAULT ISOLATION MANUAL**

- (f) Re-connect connector DS52004.
- (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the handle Unlocked Proximity Sensor, S52004. This is the task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the Proximity Sensor Electronics Unit (PSEU) 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

834. FLCD Latched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21040.

B. Description

- (1) 52-21040: Latched Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Latched Forward Cargo Door Proximity Sensor, S52005
- (3) Circuit Card Assembly, Cargo Door Prox Driver in PSEU 1, M32021-B04
- (4) PSEU 1, M32021

D. Related Data

- (1) WDM 52-34-11

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-34 TASKS 833-834

D633W103-ARO

Page 257
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Latched Proximity Sensor, S52005.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52005 from the Latched Proximity Sensor, S52005.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52005 at the Latched Proximity Sensor, S52005, and connector DM32021AE at the E1-5 shelf (WDM 52-34-11):

DS52005		DM32021AE
pin 2	.....	pin E7
pin 3	.....	pin E8
 - (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52005.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-connect connector DS52005.
 - (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Latched Proximity Sensor, S52005. This is the task: Unlatched and Latched Proximity Sensors Removal, Installation and Adjustment, AMM TASK 52-34-20-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801

EFFECTIVITY
ARO ALL

52-34 TASK 834



777-200/300
FAULT ISOLATION MANUAL

- Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

835. FLCD Door Control Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21230, 52-21240, 52-21250, 52-21260, 52-21270.

B. Description

- (1) 52-12230: Forward Cargo Door Handle Unlocked Target is out of position.
- (2) 52-21240: Forward Cargo Door Latched Range Target is out of position.
- (3) 52-21250: Forward Cargo Door Latched Target is out of position.
- (4) 52-21260: Forward Cargo Door Unlatched Target is out of position.
- (5) 52-21270: Forward Cargo Door Up Target is out of position.

C. Possible Causes

- (1) Wiring
- (2) Forward Cargo Door Handle Unlocked Target
- (3) Forward Cargo Door Handle Unlocked Proximity Sensor, S52004
- (4) Forward Cargo Door Latched Range Target
- (5) Forward Cargo Door Latched Range Proximity Sensor, S52001
- (6) Forward Cargo Door Latched Target
- (7) Forward Cargo Door Latched Proximity Sensor, S52005
- (8) Forward Cargo Door Unlatched Target
- (9) Forward Cargo Door Unlatched Proximity Sensor, S52002
- (10) Forward Cargo Door Up Target
- (11) Forward Cargo Door Up Proximity Sensor, S52003
- (12) Circuit Card Assembly, Cargo DoorProx Driver in PSEU 1, M32021-B04
- (13) PSEU 1, M32021

D. Related Data

- (1) WDM 52-71-15

EFFECTIVITY
ARO ALL

52-34 TASKS 834-835

D633W103-ARO

Page 259
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the applicable Door Control Proximity Sensor and its Target.
- (2) Do a check on the applicable Door Control Proximity Sensor as follows:
 - (a) Look for a sensor actuator/deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (3) If there is material debris or a sensor actuator/deactuator near the sensor, do these steps:
 - (a) Remove the material debris or the sensor actuator/deactuator.
 - (b) Replace the target if it is necessary.
 - (c) Do the applicable procedure below to adjust the applicable Door Indication Proximity Sensor.
 - 1) Do this task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
NOTE: Only do the Adjustment.
 - 2) Do this task: Latch Range Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-801.
NOTE: Only do the Adjustment.
 - 3) Do this task: Unlatched and Latched Proximity Sensors Removal, Installation and Adjustment, AMM TASK 52-34-20-900-802.
NOTE: Only do the Adjustment.
 - 4) Do this task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
NOTE: Only do the Adjustment.
 - (d) Close, latch and lock the door.
 - (e) Do the Repair Confirmation at the end of this task.
- (4) Do this check of the wiring:
 - (a) Disconnect the applicable connector from the applicable Door Control Proximity Sensor.

EFFECTIVITY
ARO ALL

52-34 TASK 835

D633W103-ARO

Page 260
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (b) Remove the Proximity Sensor Electronics Unit (PSEU) 1, M32021. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
- (c) Do a wiring check between these pins of the connector at the Proximity Sensor and connector DM32021AE at the E1-5 shelf (WDM 52-71-15):

	SENSOR CONNECTOR	PSEU CONNECTOR
HANDLE UNLOCKED	DS52004	DM32021AE
	PIN 2	PIN D7
	PIN 3	PIN D8
LATCH RANGE	DS52001	DM32021AE
	PIN 2	PIN A7
	PIN 3	PIN A8
LATCHED	DS52005	DM32021AE
	PIN 2	PIN E7
	PIN 3	PIN E8
UNLATCHED	DS52002	DM32021AE
	PIN 2	PIN B7
	PIN 3	PIN B8
UP	DS52003	DM32021AE
	PIN 2	PIN C7
	PIN 3	PIN C8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect applicable Proximity Sensor connector.
 - 3) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-connect applicable Proximity Sensor connector.
- (g) Re-install the PSEU 1, M32021. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (5) Replace the applicable Door Control Proximity Sensor.
 - (a) Do the applicable procedure below to replace the applicable Door Control Proximity Sensor.
 - 1) Do this task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
 - 2) Do this task: Latch Range Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-801.

EFFECTIVITY
ARO ALL

52-34 TASK 835



777-200/300
FAULT ISOLATION MANUAL

- 3) Do this task: Unlatched and Latched Proximity Sensors Removal, Installation and Adjustment, AMM TASK 52-34-20-900-802.
- 4) Do this task: Handle Unlocked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-34-20-900-804.
 - (b) Do the Repair Confirmation at the end of this task.
- (6) Replace the Circuit Card Assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (7) Replace the PSEU 1, M32021. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

836. FLCD Closed Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21500.

B. Description

- (1) 52-21500: Closed Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Closed Forward Cargo Door Proximity Sensor, S52021
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32025-B04
- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-34 TASKS 835-836

D633W103-ARO

Page 262
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52021 from the Closed Proximity Sensor, S52021.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52021 at the Closed Proximity Sensor, S52021, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52021	DM32025AE
pin 2	pin A9
pin 3	pin A10
 - (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52025.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-connect connector DS52025.
 - (g) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Closed Proximity Sensor, S52021. This is the task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-801.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly (CCA), Prox Driver, B04 in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-34 TASK 836



777-200/300
FAULT ISOLATION MANUAL

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

837. FLCD Locked Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21510.

B. Description

- (1) 52-21510: Locked Forward Cargo Door Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Locked Forward Cargo Door Proximity Sensor, S52022
- (3) Circuit Card Assembly, Proximity in PSEU 1, M32025-B04
- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the Locked Proximity Sensor, S52022.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52022 from the Locked Proximity Sensor, S52022.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

EFFECTIVITY
ARO ALL

52-34 TASKS 836-837

D633W103-ARO

Page 264
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (c) Do a wiring check between these pins of connector DS52022 at the Locked Proximity Sensor, S52022, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52022	DM32025AE
pin 2	pin C9
pin 3	pin C10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52022.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (3) Replace the Locked Proximity Sensor, S52022. This is the task: Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-803.

- (a) Do the Repair Confirmation at the end of this task.

- (4) Replace the Circuit Card Assembly (CCA), Prox Driver, B04 in PSEU 2. These are the tasks:

- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
- PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801

- (a) Do the Repair Confirmation at the end of this task.

- (5) Replace the PSEU 2, M32025. These are the tasks:

- Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
- Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801

- (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.

- (a) Re-install the door lining.
- (b) Close the FLCD.

- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

838. FLCD Latched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21540.

B. Description

- (1) 52-21540: Latched Forward Cargo Door Proximity Sensor circuit is open or shorted.

EFFECTIVITY
ARO ALL

52-34 TASKS 837-838



777-200/300
FAULT ISOLATION MANUAL

C. Possible Causes

- (1) Wiring
- (2) Latched Forward Cargo Door Proximity Sensor, S52042
- (3) Circuit Card Assembly, Prox Driver in PSEU 1, M32025-B04
- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52042 from the Latched Proximity Sensor, S52042.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52042 at the latched proximity sensor, S52042, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52042	DM32025AE
pin 2	pin B9
pin 3	pin B10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52025.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-connect connector DS52025.

EFFECTIVITY
ARO ALL

52-34 TASK 838



**777-200/300
FAULT ISOLATION MANUAL**

- (g) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Latched Proximity Sensor, S52042. This is the task: Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-802.
 - (a) Do the Repair Confirmation at the end of this task.
- (4) Replace the Circuit Card Assembly (CCA), Prox Driver, B04 in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— **END OF TASK** —————

839. FLCD Door Indication Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-22320, 52-22330, 52-22340.

B. Description

- (1) 52-22320: Forward Cargo Door Closed Target is out of position.
- (2) 52-22330: Forward Cargo Door Latched Target is out of position.
- (3) 52-22340: Forward Cargo Door Locked Target is out of position.

C. Possible Causes

- (1) Forward Cargo Door Closed Target
- (2) Forward Cargo Door Latched Target
- (3) Forward Cargo Door Locked Target

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

EFFECTIVITY
ARO ALL

52-34 TASKS 838-839

D633W103-ARO

Page 267
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Do these steps to prepare for the procedure:
 - (a) Open the Forward Large Cargo Door (FLCD).
 - (b) Remove the applicable Door Lining to get access to the applicable Door Indication Proximity Sensor and its Target.
- (2) Do a check on the applicable Door Indication Proximity Sensor as follows:
 - (a) Look for a sensor actuator/deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (3) If there is material debris or a sensor actuator/deactuator near the sensor, do these steps:
 - (a) Remove the material debris or the sensor actuator/deactuator.
 - (b) Replace the target if it is necessary.
 - (c) Do the applicable procedure below to adjust the Door Indication Proximity Sensor.
 - 1) Do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-801.
NOTE: Only do the Adjustment.
 - 2) Do this task: Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-802.
NOTE: Only do the Adjustment.
 - 3) Do this task: Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-803.
NOTE: Only do the Adjustment.
 - (d) Close, latch and lock the door.
 - (e) Do the Repair Confirmation at the end of this task.
- (4) Do this check of the wiring:
 - (a) Disconnect the applicable connector from the applicable Door Indication Proximity Sensor.
 - (b) Remove the Proximity Sensor Electronics Unit (PSEU) 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector at the Proximity Sensor and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

EFFECTIVITY
ARO ALL

52-34 TASK 839

D633W103-ARO

Page 268
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

	SENSOR CONNECTOR	PSEU CONNECTOR
LATCHED	DS52042	DM32025AE
	PIN 2	PIN B9
	PIN 3	PIN B10
LOCKED	DS52022	DM32025AE
	PIN 2	PIN C9
	PIN 3	PIN C10
CLOSED	DS52021	DM32025AE
	PIN 2	PIN A9
	PIN 3	PIN A10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect the applicable Proximity Sensor connector.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) Do the Repair Confirmation at the end of this task.
- (e) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (5) Replace the applicable Door Indication Proximity Sensor.
 - (a) Do the applicable procedure below to replace the applicable Door Indication Proximity Sensor.
 - 1) Do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-801.
 - 2) Do this task: Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-802.
 - 3) Do this task: Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-02-900-803.
 - (b) Do the Repair Confirmation at the end of this task.
- (6) Replace the Circuit Card Assembly (CCA), Prox Driver, B04 in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) Do the Repair Confirmation at the end of this task.
- (7) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-34 TASK 839

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

G. Repair Confirmation

- (1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (a) Re-install the door lining.
 - (b) Close the FLCD.
- (2) If the MAT shows ACTIVE for the maintenance message, continue the fault isolation at the subsequent step.

————— END OF TASK —————

840. FLCD Relay Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-23100, 52-23110, 52-23140, 52-23150.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the applicable relay and proximity sensor electronics unit (PSEU) 1.
 - (a) Do these steps to remove the applicable relay:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
 - 2) Remove the applicable relay (WDM 52-34-11).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the applicable FLCD connector, and connector DM32021AE at the PSEU 1, M32021 (WDM 52-34-11):

PSEU 1 (Conn-Pin)	FLCD Relay (Conn-Pin)
DM32021AE	DK52001
pin E14	pin X2
DM32021AE	DK52002
pin F14	pin X2
DM32021AE	DK52003
pin B14	pin X2
DM32021AE	DK52004
pin A14	pin X2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring

EFFECTIVITY ARO ALL

52-34 TASKS 839-840

ECCN 9E991 BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details



**777-200/300
FAULT ISOLATION MANUAL**

- 2) Re-install the applicable relay (WDM 52-34-11).
- 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- 4) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- 5) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 6) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (2) Replace the applicable relay (WDM 52-34-11).
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:

- 1) Re-install the cargo compartment lining.
- 2) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- 3) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

FWD Cargo Handling Access Panel, P35

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C52303	FWD CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.
These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

EFFECTIVITY ARO ALL

52-34 TASK 840

D633W103-ARO

Page 271
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

841. FLCD Cargo Handling Circuit Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-23120.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the door unlatched relay, K33051 and proximity sensor electronics unit (PSEU) 1.
 - (a) Do these steps to remove the door unlatched relay, K33051:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
 - 2) Remove the door unlatched relay, K33051 (WDM 33-37-11).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DK33051 at the door unlatched relay, K33051, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 33-37-11):

PSEU 1	FLCD Relay
(Conn-Pin)	(Conn-Pin)
DM32021AE	DK33051
pin C14	pin X2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the door unlatched relay, K33051 (WDM 33-37-11).
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (2) Replace the door unlatched relay, K33051 (WDM 33-37-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - 2) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.

EFFECTIVITY
ARO ALL

52-34 TASK 841



777-200/300
FAULT ISOLATION MANUAL

- (3) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,

PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

842. FLCD Door Up Cargo Lighting Circuit Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-23130.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the door fully open relay, K33052 and proximity sensor electronics unit (PSEU) 1.
 - (a) Do these steps to remove the door fully open relay, K33052:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
 - 2) Remove the door fully open relay, K33052 (WDM 33-31-15).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - (c) Do a wiring check between these pins of connector DK33052 at the door fully open relay, K33052, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 33-31-15):

PSEU 1	FLCD Relay
(Conn-Pin)	(Conn-Pin)
DM32021AE	DK33052
pin E14	pin X2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the door fully open relay, K33052 (WDM 33-31-15).
 - 3) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - b) Re-install the cargo compartment lining.
 - 4) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the door fully open relay, K33052 (WDM 33-31-15).

EFFECTIVITY
ARO ALL

52-34 TASKS 841-842



777-200/300
FAULT ISOLATION MANUAL

- (2) Do this check of the wiring between the cargo system controller, M25001 and proximity sensor electronics unit (PSEU) 1.
 - (a) Remove the cargo system controller, M25001, do this task: Cargo System Controller (CSC) Removal, AMM TASK 25-53-33-000-804-003.
 - (b) Do a wiring check between these pins of connector DM25001AD at the cargo system controller, M25001, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 25-53-11):

PSEU 1	Controller
(Conn-Pin)	(Conn-Pin)
DM32021AE	DM25001AD
pin D14	pin E8

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the cargo system controller, M25001. To install it, do this task: Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003.
 - 3) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - b) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) If you do not find a problem with the wiring, then continue.
- (e) Re-install the cargo system controller, M25001. To install it, do this task: Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003.
- (3) Do this check of the wiring between the FLCD door up light, L52001 and proximity sensor electronics unit (PSEU) 1.
 - (a) Remove the FLCD door up light, L52001 (WDM 52-34-11).
 - (b) Do a wiring check between these pins at the FLCD door up light, L52001, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 52-34-11):

PSEU 1	Light (Pin)
(Conn-Pin)	L52001
DM32021AE	L52001
pin D14	pin 2

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the FLCD door up light, L52001 (WDM 52-34-11).
 - 3) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - b) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows ACTIVE for the maintenance message, then continue.

EFFECTIVITY
ARO ALL

52-34 TASK 842



**777-200/300
FAULT ISOLATION MANUAL**

- (d) If you do not find a problem with the wiring, then continue.
 - (e) Re-install the FLCD door up light, L52001 (WDM 52-34-11).
 - (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (4) Replace the FLCD door up light, L52001 (WDM 52-34-11).
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Do these steps to replace the door fully open relay, K33052:
- (a) Remove the applicable cargo compartment lining to get access to the back of the P35 panel.
 - (b) Replace the door fully open relay, K33052 (WDM 33-31-15).
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (d) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the cargo system controller, M25001.
- These are the tasks:
- Cargo System Controller (CSC) Removal, AMM TASK 25-53-33-000-804-003,
Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.
- These are the tasks:
- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

843. FLCD Door Latched Cargo Lighting Circuit Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-23160.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

EFFECTIVITY
ARO ALL

52-34 TASKS 842-843

D633W103-ARO

Page 275
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the FLCD door latched light, L52001 and proximity sensor electronics unit (PSEU) 1.
 - (a) Remove the FLCD door latched light, L52002 (WDM 52-34-11).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins at the FLCD door latched light, L52002, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 52-34-11):

PSEU 1	
(Conn-Pin)	Light (Pin)
DM32021AE	L52002
pin D14	pin 2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the FLCD door latched light, L52002 (WDM 52-34-11).
 - 3) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - b) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the FLCD door latched light, L52002 (WDM 52-34-11).
- (g) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (2) Replace the FLCD door latched light, L52002 (WDM 52-34-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

EFFECTIVITY
ARO ALL

52-34 TASK 843



777-200/300
FAULT ISOLATION MANUAL

801. ASCD Door Up Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11050.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52008 from the door up proximity sensor, S52008.
 - (b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52008 at the door up proximity sensor, S52008, and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

DS52008	DM32021AE
pin 2	pin C11
pin 3	pin C12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52008.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the door up proximity sensor, S52008. To replace it, do this task: Door Up Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly CCA, Proximity, A07 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

EFFECTIVITY
ARO ALL

52-35 TASK 801



777-200/300
FAULT ISOLATION MANUAL

- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 1, M32021.

These are the tasks:

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

802. ASCD Door Lifted Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11060.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
 - (b) Remove the applicable door lining to get access to the door lifted proximity sensor, S52009.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52009 from the door lifted proximity sensor, S52009.
 - (b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52009 at the door lifted proximity sensor, S52009, and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

DS52009	DM32021AE
pin 2	pin B11
pin 3	pin B12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52009.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the door lining.
- (e) If you do not find a problem with the wiring, then continue.

EFFECTIVITY ARO ALL

52-35 TASKS 801-802



**777-200/300
FAULT ISOLATION MANUAL**

- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the door lifted proximity sensor, S52009. To replace it, do this task: Door Lifted Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-802.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly CCA, Proximity, A07 in PSEU 1.

These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 1, M32021.

These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.

————— **END OF TASK** —————

803. ASCD Latched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11070.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
 - (b) Remove the applicable door lining to get access to the latched proximity sensor, S52011.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52011 from the latched proximity sensor, S52011.
 - (b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

EFFECTIVITY
ARO ALL

52-35 TASKS 802-803

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

(c) Do a wiring check between these pins of connector DS52011 at the latched proximity sensor, S52011, and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

DS52011	DM32021AE
pin 2	pin E11
pin 3	pin E12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52011.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the door lining.

- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

(3) Replace the latched proximity sensor, S52011. To replace it, do this task: Door Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-803.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.

(4) Replace the circuit card assembly CCA, Proximity, A07 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.

(5) Replace the PSEU 1, M32021.

These are the tasks:

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.

————— **END OF TASK** —————

EFFECTIVITY ARO ALL

52-35 TASK 803

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

804. ASCD Door Down Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11080.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52012 from the door down proximity sensor, S52012.
 - (b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52012 at the door down proximity sensor, S52012, and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

DS52012	DM32021AE
pin 2	pin A11
pin 3	pin A12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52012.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the door down proximity sensor, S52012. To replace it, do this task: Door Down Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-804.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly CCA, Proximity, A07 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

EFFECTIVITY
ARO ALL

52-35 TASK 804



**777-200/300
FAULT ISOLATION MANUAL**

- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the proximity sensor electronics unit (PSEU) 1, M32021.

These are the tasks:

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

805. ASCD Door Control Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-11190, 52-11200, 52-11210, 52-11220.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
 - (b) Remove the applicable door lining to get access to the applicable door control proximity sensor and its target.
- (2) Do a check on the applicable door control proximity sensor as follows:
 - (a) Look for a sensor actuator/deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (3) If there is material debris or a sensor actuator/deactuator near the proximity sensor, do these steps:
 - (a) Remove the material debris or the sensor actuator/deactuator.
 - (b) Replace the target if it is necessary.
 - (c) Do the applicable procedure below to adjust the applicable door control proximity sensor.
 - 1) Do this task: Door Up Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-801.
NOTE: Only do the Adjustment.
 - 2) Do this task: Door Down Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-804.
NOTE: Only do the Adjustment.
 - 3) Do this task: Door Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-803.
NOTE: Only do the Adjustment.
 - 4) Do this task: Door Lifted Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-802.
NOTE: Only do the Adjustment.

EFFECTIVITY
ARO ALL

52-35 TASKS 804-805

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

- (d) Close and latch the door.
- (e) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
- (f) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Do this check of the wiring:
 - (a) Disconnect the applicable connector from the applicable door control proximity sensor.
 - (b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector at the proximity sensor and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

	SENSOR CONNECTOR	PSEU CONNECTOR
Door Up	DS52008	DM32021AE
	pin 2	pin C11
	pin 3	pin C12
Door Lifted	DS52009	DM32021AE
	pin 2	pin B11
	pin 3	pin B12
Latched	DS52011	DM32021AE
	pin 2	pin E11
	pin 3	pin E12
Door Down	DS52012	DM32021AE
	pin 2	pin A11
	pin 3	pin A12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect applicable proximity sensor connector.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the door lining.
- (e) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (5) Replace the applicable door control proximity sensor.
 - (a) Do the applicable procedure below to replace the applicable door control proximity sensor.

EFFECTIVITY
ARO ALL

52-35 TASK 805



**777-200/300
FAULT ISOLATION MANUAL**

- 1) Do this task: Door Up Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-801.
 - 2) Do this task: Door Down Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-804.
 - 3) Do this task: Door Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-803.
 - 4) Do this task: Door Lifted Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-802.
- (b) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
- 1) Re-install the door lining.
- (c) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the circuit card assembly CCA, Proximity, A07 in PSEU 1.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
- 1) Re-install the door lining.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the PSEU 1, M32021.
These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
- 1) Re-install the door lining.

————— **END OF TASK** —————

806. ASCD Closed Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11520.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52023 from the closed proximity sensor, S52023.

EFFECTIVITY
ARO ALL

52-35 TASKS 805-806

D633W103-ARO

Page 208
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

- (b) Remove the proximity sensor electronics unit (PSEU) 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
- (c) Do a wiring check between these pins of connector DS52023 at the closed proximity sensor, S52023, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52023	DM32025AE
pin 2	pin D9
pin 3	pin D10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52023.
 - 3) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the closed proximity sensor, S52023. To replace it, do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly CCA, Proximity, A07 in PSEU 2.
- These are the tasks:
- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 2, M32025.
- These are the tasks:
- Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

807. ASCD Latched and Locked Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11530.

EFFECTIVITY ARO ALL

52-35 TASKS 806-807



777-200/300
FAULT ISOLATION MANUAL

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52024 from the latched and locked proximity sensor, S52024.
 - (b) Remove the proximity sensor electronics unit (PSEU) 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52024 at the latched and locked proximity sensor, S52024, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52024	DM32025AE
pin 2	pin E9
pin 3	pin E10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52024.
 - 3) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the latched and locked proximity sensor, S52024. To replace it, do this task: Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-802.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly CCA, Proximity, A07 in PSEU 2.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 2, M32025.

EFFECTIVITY ARO ALL

52-35 TASK 807



777-200/300
FAULT ISOLATION MANUAL

These are the tasks:

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

808. ASCD Door Indication Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-11970, 52-11980.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Open the aft small cargo door (ASCD).
- (2) Do a check on the applicable door indication proximity sensor as follows:
 - (a) Look for a sensor actuator/deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (3) If there is material debris or a sensor actuator/deactuator near the proximity sensor, do these steps:
 - (a) Remove the material debris or the sensor actuator/deactuator.
 - (b) Replace the target if it is necessary.
 - (c) Do the applicable procedure below to adjust the applicable door indication proximity sensor.
 - 1) Do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-801.
NOTE: Only do the Adjustment.
 - 2) Do this task: Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-802.
NOTE: Only do the Adjustment.
 - (d) Close and latch the door.
 - (e) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 1) Re-install the door lining.
 - (f) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Do this check of the wiring:
 - (a) Disconnect the applicable connector from the applicable door indication proximity sensor.
 - (b) Remove the proximity sensor electronics unit (PSEU) 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

EFFECTIVITY
ARO ALL

52-35 TASKS 807-808

D633W103-ARO

Page 211
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

- (c) Do a wiring check between these pins of the connector at the proximity sensor and connector DM32025AE at the E4-1 shelf (WDM 52-35-11):

	SENSOR CONNECTION	PSEU CONNECTOR
CLOSED	DS52023	DM32025AE
	PIN 2	PIN D9
	PIN 3	PIN D10
LATCHED AND LOCKED	DS52024	DM32025AE
	PIN 2	PIN E9
	PIN 3	PIN E10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect applicable proximity sensor connector.
 - 3) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (5) Replace the applicable door indication proximity sensor.
 - (a) Do the applicable procedure below to replace the applicable door indication proximity sensor.
 - 1) Do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-801.
 - 2) Do this task: Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-802.
 - (b) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (c) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the circuit card assembly CCA, Proximity, A07 in PSEU 2.
 These are the tasks:
 PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
 PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the PSEU 2, M32025.
 These are the tasks:
 Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,

EFFECTIVITY
ARO ALL

52-35 TASK 808



777-200/300 FAULT ISOLATION MANUAL

Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

809. ASCD Relay Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-13170, 52-13180, 52-13190, 52-13210, 52-13220.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the applicable relay and proximity sensor electronics unit (PSEU) 1.
 - (a) Do these steps to remove the applicable relay:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
 - 2) Remove the applicable relay (WDM 52-35-11) (WDM 33-37-21).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the applicable relay connector and connector DM32021AE at the E1-5 shelf (WDM 52-35-11) (WDM 33-37-21):

	RELAY CONNECTOR	PSEU CONNECTOR
HINGE DOWN K52005	DK52005 PIN X2	DM32021AE PIN A15
HINGE UP K52006	DK52006 PIN X2	DM32021AE PIN B15
DOOR LIFTED K33151	DK 33151 PIN X2	DM32021AE PIN C15
LIFT/LATCH DOWN K52007	DK52007 PIN X2	DM32021AE PIN E15
LIFT/LATCH UP K52008	DK52008 PIN X2	DM32021AE PIN F15

EFFECTIVITY
ARO ALL

52-35 TASKS 808-809

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the applicable relay (WDM 52-35-11) (WDM 33-37-21).
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (2) Replace the applicable relay (WDM 52-35-11).
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - 2) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the circuit card assembly CCA, Proximity, A08 in PSEU 1.
- These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.

————— **END OF TASK** —————

810. ASCD Cargo Door Closed Light Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-13230.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the aft small cargo door (ASCD) door latched light, L52004, and proximity sensor electronics unit (PSEU) 1.
 - (a) Remove the door latched light, L52004, from the external cargo door control panel, P44 (WDM 52-35-11).

EFFECTIVITY
ARO ALL

52-35 TASKS 809-810

D633W103-ARO

Page 214
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

(b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

(c) Do a wiring check between these pins of the door latched light, L52004, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 52-35-11):

L52004	DM32021AE
pin 2	pin G15

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the door latched light, L52004 (WDM 52-35-11).
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (2) Replace the door latched light, L52004 (WDM 52-35-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the circuit card assembly CCA, Proximity, A08 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

811. ASCD Door Open Circuit Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-13200.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the aft small cargo door (ASCD) door up light, L52003, and the isolation diode, R52002:
 - (a) Remove the door up light, L52003, from the external cargo door control panel, P44 (WDM 52-35-11).

EFFECTIVITY
ARO ALL

52-35 TASKS 810-811



**777-200/300
FAULT ISOLATION MANUAL**

- (b) Remove the isolation diode, R52002, from the P39 panel as follows:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
 - 2) Remove the isolation diode, R52002 (WDM 52-35-11).
- (c) Do a wiring check between these pins of the door up light, L52003, and the isolation diode, R52002 (WDM 52-35-11).

L52003	R52002
pin 2	pin A

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the door up light, L52003 (WDM 52-35-11).
 - 3) Re-install the isolation diode, R52002 (WDM 52-35-11).
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.

(2) Do this check of the wiring between the isolation diode, R52002 and the craigs diode, R33019, and the proximity sensor electronics unit (PSEU) 1, M32021:

- (a) Remove the isolation diode, R52002, (WDM 52-35-11) and the craigs diode, R33019, (WDM 33-31-16) from the P39 panel.
- (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
- (c) Do a wiring check between these pins of the isolation diode, R52002, (WDM 52-35-11) and the craigs diode, R33019, (WDM 33-31-16) and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 52-35-11):

PSEU 1	DIODE (Pin)
(Conn-Pin)	R33019
DM32021AE	
pin D15	pin C

DM32021AE	R52002
pin D15	pin C2

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the isolation diode, R52002, (WDM 52-35-11) and the craigs diode, R33019, (WDM 33-31-16).
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.

EFFECTIVITY
ARO ALL

52-35 TASK 811



**777-200/300
FAULT ISOLATION MANUAL**

- 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (3) Do this check of the wiring between the ASCD door fully open relay, K33152, and the craigs diode, R33019:
 - (a) Remove the craigs diode, R33019, from the P39 panel (WDM 33-31-16).
 - (b) Remove the relay, K33152, from the P39 panel (WDM 33-31-16).
 - (c) Do a wiring check between these pins of the door fully open relay, K33152, and the craigs diode, R33019 (WDM 33-31-16):

K33152	R33019
pin X2	pin A

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the diode, R33019 (WDM 33-31-16).
 - 3) Re-install the relay, K33152 (WDM 33-31-16).
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (4) Do this check of the wiring between the cargo system controller (CSC), M25002, and the proximity sensor electronics unit (PSEU) 1, M32021:
 - (a) Remove the cargo system controller, M25002. To remove it, do this task: Cargo System Controller (CSC) Removal, AMM TASK 25-53-33-000-804-003.
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - (c) Do a wiring check between these pins of connector DM25002AD at the CSC on the E17-11 rack and connector DM32021AE at the PSEU 1 on the E1-5 shelf (WDM 25-53-21) (WDM 52-35-11):

DM32021AE	DM25002AD
pin D15	pin E8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Re-install the CSC, M25002, do this task: Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.

EFFECTIVITY
ARO ALL

52-35 TASK 811



**777-200/300
FAULT ISOLATION MANUAL**

- (5) Replace the ASCD door up light, L52003, in the P44 panel (WDM 52-35-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the isolation diode, R52002, in the P39 panel (WDM 52-35-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the isolation diode, R33019, in the P39 panel (WDM 33-31-16).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (8) Replace the ASCD door fully up relay, K33152 (WDM 33-31-16).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Re-install the cargo compartment lining.
- (9) Replace the cargo system controller, M25002.

These are the tasks:

Cargo System Controller (CSC) Removal, AMM TASK 25-53-33-000-804-003,
Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (10) Replace the circuit card assembly CCA, Proximity, A08 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

812. ASCD Does Not Unlatch Electrically, Manual Unlatch OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.

EFFECTIVITY
ARO ALL

52-35 TASKS 811-812

D633W103-ARO

Page 218
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

- 2) Do the specified fault isolation task.
- (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
 - (a) Make sure the door will not unlatch and lift electrically.
 - (b) Make sure the door will unlatch and lift manually.
 - (c) Make sure the door will open electrically.
 - (d) Make sure the door will close electrically.
 - (e) Make sure the door will lower and latch electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Replace the lift/latch up relay, K52008 as follows:
 - (a) Open these circuit breakers and install safety tags:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
- (c) Replace the lift/latch up relay, K52008 (WDM 52-35-11).
- (d) Do the Repair Confirmation at the end of this task.
- (2) Do this check of the wiring between the lift/latch up relay, K52008, and the cargo door control switches and ground:
 - (a) Open these circuit breakers and install safety tags:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

EFFECTIVITY ARO ALL

52-35 TASK 812



777-200/300
FAULT ISOLATION MANUAL

- (b) Remove the lift/latch up relay, K52008.
- (c) Remove the safety tag and close this circuit breaker:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (d) Make sure the door is not fully unlatched.
- (e) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN position.
- (f) While you operate the switches, do a wiring check for 28V dc at pin X1 of connector DK52008 in the P39 panel (WDM 52-35-11).
- (g) Release the switches.
- (h) Do a wiring check for ground at pin X2 of connector DK52008 in the P39 panel (WDM 52-35-11).
- (i) Open this circuit breaker and install safety tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (j) If there was not 28V dc at pin X1 of connector DK52008 while you operated the switches and ground at pin X2, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the lift/latch up relay, K52008.
 - 3) Do the repair confirmaton at the end of this task.
 - (k) If there was 28V dc at pin X1 or connector DK52008 while you operated the switches and ground at pin X2, then continue.
- (3) Do a check of the wiring between the lift/latch up relay, K52008, and the lift/latch down relay, K52007:
- (a) Remove the lift/latch down relay, K52007.
 - (b) Do a wiring check between these pins of connectors DK52008 and DK52007 in the P39 panel (WDM 52-35-11):

DK52007	DK52008
pin A3	pin A1
pin B3	pin C1
pin C3	pin B1

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the lift/latch up relay, K52008.
 - 3) Re-install the lift/latch down relay, K52007.
 - 4) Do the Repair Confirmation at the end of this task.

C. Repair Confirmation

- (1) Do these steps to confirm the repair:

EFFECTIVITY ARO ALL

52-35 TASK 812



777-200/300
FAULT ISOLATION MANUAL

- (a) Remove the safety tags and close these circuit breakers:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN position for 10 seconds.
- (c) If the door unlatches or lifts while you operate the switches, you corrected the fault. Do these steps to complete the task:
- 1) Re-install the cargo compartment lining.

————— **END OF TASK** —————

813. ASCD Does Not Latch Electrically, Manual Latch OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
 - (a) Make sure the door will not lower and latch electrically.
 - (b) Make sure the door will lower and latch manually.
 - (c) Make sure the door will unlatch and lift electrically.
 - (d) Make sure the door will open electrically.
 - (e) Make sure the door will close electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Replace the lift/latch down relay, K52007 as follows:

EFFECTIVITY
ARO ALL

52-35 TASKS 812-813



**777-200/300
FAULT ISOLATION MANUAL**

- (a) Open these circuit breakers and install safety tags:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
- (c) Replace the lift/latch down relay, K52007 (WDM 52-35-11).
- (d) Do the Repair Confirmation at the end of this task.
- (2) Do this check of the wiring between the lift/latch down relay, K52007, and the cargo door control switches and ground:

- (a) Open these circuit breakers and install safety tags:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the lift/latch down relay, K52007.
- (c) Remove the safety tag and close this circuit breaker:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (d) Make sure the door is not fully latched.
- (e) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the CLOSE position.
- (f) While you operate the switches, do a wiring check for 28V dc at pin X1 of connector DK52007 in the P39 panel (WDM 52-35-11).
- (g) Release the switches.
- (h) Do a wiring check for ground at pin X2 of connector DK52007 in the P39 panel (WDM 52-35-11).
- (i) Open this circuit breaker and install safety tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (j) If there was not 28V dc at pin X1 of connector DK52007 while you operated the switches and ground at pin X2, then do these steps:

EFFECTIVITY
ARO ALL

52-35 TASK 813



777-200/300
FAULT ISOLATION MANUAL

- 1) Repair the wiring.
- 2) Re-install the lift/latch down relay, K52007.
- 3) Do the repair confirmaton at the end of this task.
- (k) If there was 28V dc at pin X1 or connector DK52007 while you operated the switches and ground at pin X2, then continue.
- (3) Do a check of the wiring between the lift/latch down relay, K52007, and the lift/latch up relay, K52008:
 - (a) Remove the lift/latch up relay, K52008.
 - (b) Do a wiring check between these pins of connectors DK52007 and DK52008 in the P39 panel (WDM 52-35-11):

DK52007	DK52008
pin A1	pin A3
pin B1	pin B3
pin C1	pin C3

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the lift/latch down relay, K52007.
 - 3) Re-install the lift/latch up relay, K52008.
 - 4) Do the Repair Confirmation at the end of this task.

C. Repair Confirmation

- (1) Do these steps to confirm the repair:
 - (a) Remove the safety tags and close these circuit breakers:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the CLOSE position for 10 seconds.
- (c) If the door lowers or latches while you operate the switches, you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.

————— END OF TASK —————

814. ASCD Does Not Open Electrically, Manual Open OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:

EFFECTIVITY ARO ALL

52-35 TASKS 813-814



**777-200/300
FAULT ISOLATION MANUAL**

- 1) Find the message in the applicable Maintenance Message Index in the FIM.
- 2) Do the specified fault isolation task.
- (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
 - (a) Make sure the door will not open electrically.
 - (b) Make sure the door will open manually.
 - (c) Make sure the door will close electrically.
 - (d) Make sure the door will lower and latch electrically.
 - (e) Make sure the door will unlatch and lift electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Replace the hinge up relay, K52006 as follows:
 - (a) Open these circuit breakers and install safety tags:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
- (c) Replace the hinge up relay, K52006 (WDM 52-35-11).
- (d) Do the Repair Confirmation at the end of this task.
- (2) Do this check of the wiring between the hinge up relay, K52006, and the cargo door control switches and ground:
 - (a) Open these circuit breakers and install safety tags:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

EFFECTIVITY ARO ALL

52-35 TASK 814



777-200/300
FAULT ISOLATION MANUAL

- (b) Remove the hinge up relay, K52006.
- (c) Remove the safety tag and close this circuit breaker:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (d) Make sure the door is not fully open.
- (e) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN position.
- (f) While you operate the switches, do a wiring check for 28V dc at pin X1 of connector DK52006 in the P39 panel (WDM 52-35-11).
- (g) Release the switches.
- (h) Do a wiring check for ground at pin X2 of connector DK52006 in the P39 panel (WDM 52-35-11).
- (i) Open this circuit breaker:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (j) If there was not 28V dc at pin X1 of connector DK52006 while you operated the switches and ground at pin X2, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge up relay, K52006.
 - 3) Do the repair confirmaton at the end of this task.
- (k) If there was 28V dc at pin X1 or connector DK52006 while you operated the switches and ground at pin X2, then continue.
- (3) Do a check of the wiring between the hinge up relay, K52006, and the hinge down relay, K52005:
 - (a) Remove the hinge down relay, K52005.
 - (b) Do a wiring check between these pins of connectors DK52006 and DK52005 in the P39 panel (WDM 52-35-11):

DK52005	DK52006
pin A3	pin A1
pin B3	pin C1
pin C3	pin B1

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge up relay, K52006.
 - 3) Re-install the hinge down relay, K52005.
 - 4) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-35 TASK 814



**777-200/300
FAULT ISOLATION MANUAL**

C. Repair Confirmation

- (1) Do these steps to confirm the repair:
 - (a) Remove the safety tags and close these circuit breakers:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN position for 10 seconds.
- (c) If the door opens while you operate the switches, you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.

————— **END OF TASK** —————

815. ASCD Does Not Close Electrically, Manual Close OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
 - (a) Make sure the door will not close electrically.
 - (b) Make sure the door will close manually.
 - (c) Make sure the door will open electrically.
 - (d) Make sure the door will lower and latch electrically.
 - (e) Make sure the door will unlatch and lift electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Replace the hinge down relay, K52005 as follows:

EFFECTIVITY
ARO ALL

52-35 TASKS 814-815

D633W103-ARO



**777-200/300
FAULT ISOLATION MANUAL**

- (a) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
- (c) Replace the hinge down relay, K52005 (WDM 52-35-11).
- (d) Do the Repair Confirmation at the end of this task.
- (2) Do this check of the wiring between the hinge down relay, K52005, and the cargo door control switches and ground:

- (a) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the hinge down relay, K52005.
- (c) Remove the DO-NOT-CLOSE tag and close this circuit breaker:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (d) Make sure the door is not fully closed.
- (e) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the CLOSE position.
- (f) While you operate the switches, do a wiring check for 28V dc at pin X1 of connector DK52005 in the P39 panel (WDM 52-35-11).
- (g) Release the switches.
- (h) Do a wiring check for ground at pin X2 of connector DK52005 in the P39 panel (WDM 52-35-11).
- (i) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (j) If there was not 28V dc at pin X1 of connector DK52005 while you operated the switches and ground at pin X2, then do these steps:

EFFECTIVITY ARO ALL

52-35 TASK 815



777-200/300
FAULT ISOLATION MANUAL

- 1) Repair the wiring.
- 2) Re-install the hinge down relay, K52005.
- 3) Do the repair confirmaton at the end of this task.
- (k) If there was 28V dc at pin X1 or connector DK52005 while you operated the switches and ground at pin X2, then continue.
- (3) Do a check of the wiring between the hinge down relay, K52005, and the hinge up relay, K52006:
 - (a) Remove the hinge up relay, K52006.
 - (b) Do a wiring check between these pins of connectors DK52005 and DK52006 in the P39 panel (WDM 52-35-11):

DK52005	DK52006
pin A1	pin A3
pin B1	pin B3
pin C1	pin C3

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the hinge down relay, K52005.
 - 3) Re-install the hinge up relay, K52006.
 - 4) Do the Repair Confirmation at the end of this task.

C. Repair Confirmation

- (1) Do these steps to confirm the repair:
 - (a) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the CLOSE position for 10 seconds.
- (c) If the door closes while you operate the switches, you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.

————— END OF TASK —————

816. ASCD Does Not Unlatch and Latch Electrically, Manual Unlatch and Latch OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:

EFFECTIVITY ARO ALL

52-35 TASKS 815-816



**777-200/300
FAULT ISOLATION MANUAL**

- 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
- (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
- (a) Make sure the door will not unlatch and lift electrically.
 - (b) Make sure the door will not lower and latch electrically.
 - (c) Make sure the door will unlatch and lift manually.
 - (d) Make sure the door will lower and latch manually.
 - (e) Make sure the door will open electrically.
 - (f) Make sure the door will close electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
- (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Do a check of the wiring between the lift/latch power drive unit, M52230, and the arming relay, K52010.
- (a) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
- (c) Remove the arming relay, K52010.
- (d) Disconnect connector DM52230 from the lift/latch power drive unit, M52230.
- (e) Remove the DO-NOT-CLOSE tag and close this circuit breaker:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

EFFECTIVITY ARO ALL

52-35 TASK 816

D633W103-ARO

Page 229
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

- (f) Hold the CARGO DOOR CONTROL switch in the OPEN or CLOSE position for 10 seconds.

NOTE: The position you hold the switch to depends on the position of the door. If the door is lowered and latched, then hold the switch in the OPEN position. If the door is unlatched and lifted, then hold the switch in the CLOSE position.

- (g) While you hold the switch, do a wiring check between these pins of connector DK52010 in the P39 panel and connector DM52230 for the lift/latch power drive unit, M52230 (WDM 52-35-11):

- 1) If the door is lowered and latched and you hold the CARGO DOOR CONTROL switch in the OPEN position, do the wiring check between these pins:

DK52010		DM52230
pin A1	.....	pin 1
pin B1	.....	pin 2
pin C1	.....	pin 3

- 2) If the door is unlatched and lifted and you hold the CARGO DOOR CONTROL switch in the CLOSE position, do the wiring check between these pins:

DK52010		DM52230
pin A1	.....	pin 1
pin B1	.....	pin 3
pin C1	.....	pin 2

- (h) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (i) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the arming relay, K52010.
 - 3) Re-connect connector DM52230 to the lift/latch power drive unit, M52230.
 - 4) Do the Repair Confirmation at the end of this task.
- (j) If you did not find a problem with the wiring, then continue.

- (2) Replace the lift/latch power drive unit, M52230.

These are the tasks:

Lift/Latch Power Drive Unit Removal, AMM TASK 52-35-05-000-801,
Lift/Latch Power Drive Unit Installation, AMM TASK 52-35-05-400-801.

- (a) Do the Repair Confirmation at the end of this task.

C. Repair Confirmation

- (1) Do these steps to confirm the repair:

EFFECTIVITY ARO ALL

52-35 TASK 816



777-200/300
FAULT ISOLATION MANUAL

- (a) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN or CLOSE position for 10 seconds.
- (c) If the door unlatches or lifts or lowers or latches while you operate the switches, you corrected the fault. Do these steps to complete the task:
- 1) Re-install the cargo compartment lining.

————— END OF TASK —————

817. ASCD Does Not Open and Close Electrically, Manual Open and Close OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
 - (a) Make sure the door will not open electrically.
 - (b) Make sure the door will not close electrically.
 - (c) Make sure the door will open manually.
 - (d) Make sure the door will close manually.
 - (e) Make sure the door will unlatch and lift electrically.
 - (f) Make sure the door will lower and latch electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Do a check of the wiring between the hinge power drive unit, M52229, and the arming relay, K52010.

EFFECTIVITY
ARO ALL

52-35 TASKS 816-817

D633W103-ARO

Page 231
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

(a) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

(b) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.

(c) Remove the arming relay, K52010.

(d) Disconnect connector DM52229 from the hinge power drive unit, M52229.

(e) Remove the DO-NOT-CLOSE tag and close this circuit breaker:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

(f) Hold the CARGO DOOR CONTROL switch in the OPEN or CLOSE position for 10 seconds.

NOTE: The position you hold the switch to depends on the position of the door. If the door is fully closed, then hold the switch in the OPEN position. If the door is fully open, then hold the switch in the CLOSE position.

(g) While you hold the switch, do a wiring check between these pins of connector DK52010 in the P39 panel and connector DM52229 for the hinge power drive unit, M52229 (WDM 52-35-11):

1) If the door is fully closed and you hold the CARGO DOOR CONTROL switch in the OPEN position, do the wiring check between these pins:

DK52010	DM52229
pin A1	pin 1
pin B1	pin 2
pin C1	pin 3

2) If the door is unlatched and lifted and you hold the CARGO DOOR CONTROL switch in the CLOSE position, do the wiring check between these pins:

DK52010	DM52229
pin A1	pin 1
pin B1	pin 3
pin C1	pin 2

(h) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

(i) If you find a problem with the wiring, then do these steps:

EFFECTIVITY
ARO ALL

52-35 TASK 817



**777-200/300
FAULT ISOLATION MANUAL**

- 1) Repair the wiring.
 - 2) Re-install the arming relay, K52010.
 - 3) Re-connect connector DM52229 to the hinge power drive unit, M52229.
 - 4) Do the Repair Confirmation at the end of this task.
- (j) If you did not find a problem with the wiring, then continue.
- (2) Replace the hinge power drive unit, M52229.

These are the tasks:

Hinge Power Drive Unit Removal, AMM TASK 52-35-02-000-801,
Hinge Power Drive Unit Installation, AMM TASK 52-35-02-400-801.

- (a) Do the Repair Confirmation at the end of this task.

C. Repair Confirmation

- (1) Do these steps to confirm the repair:
- (a) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN or CLOSE position for 10 seconds.
- (c) If the door unlatches or lifts or lowers or latches while you operate the switches, you corrected the fault. Do these steps to complete the task:
- 1) Re-install the cargo compartment lining.

————— **END OF TASK** —————

818. ASCD Does Not Unlatch and Open Electrically, Manual Unlatch and Open OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
- (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:
- 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
- (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
- (a) Make sure the door will not unlatch and lift electrically.
 - (b) Make sure the door will not open electrically.
 - (c) Make sure the door will unlatch and lift manually.
 - (d) Make sure the door will open manually.

EFFECTIVITY
ARO ALL

52-35 TASKS 817-818



**777-200/300
FAULT ISOLATION MANUAL**

- (e) Make sure the door will close electrically.
- (f) Make sure the door will lower and latch electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Do this check of the cargo door control switches:
 - (a) Hold the internal CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN position for 10 seconds.
 - (b) While you operate the switches, if the door does not unlatch, lift or open, do these steps:
 - 1) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- 2) Replace the internal cargo door control switch, S52014 (WDM 52-35-11).
- 3) Do the Repair Confirmation at the end of this task.
- (c) Hold the external CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN position for 10 seconds.
- (d) While you operate the switches, if the door does not unlatch, lift or open, do these steps:
 - 1) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- 2) Replace the external cargo door control switch, S52015 (WDM 52-35-11).
These are the tasks:
External Cargo Door Control Switch Removal, AMM TASK 52-35-22-000-801,
External Cargo Door Control Switch Installation, AMM TASK 52-35-22-400-801.
- 3) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-35 TASK 818



**777-200/300
FAULT ISOLATION MANUAL**

- (e) If the problem continues, then do these steps:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
 - 2) Repair the wiring between the external cargo door control switch, S52015, on the P44 panel and the lift/latch up relay, K52008, or hinge up relay, K52006 on the P39 panel.
 - 3) Do the Repair Confirmation at the end of this task.
 - 4) Re-install the cargo compartment lining.

C. Repair Confirmation

- (1) Do these steps to confirm the repair:
 - (a) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN position for 10 seconds.
- (c) If the door unlatches, lifts or opens while you operate the switches, you corrected the fault.

————— **END OF TASK** —————

819. ASCD Does Not Close and Latch Electrically, Manual Close and Latch OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
 - (a) Make sure the door will not close electrically.
 - (b) Make sure the door will not lower and latch electrically.
 - (c) Make sure the door will lower and latch manually.
 - (d) Make sure the door will close manually.
 - (e) Make sure the door will unlatch and lift electrically.
 - (f) Make sure the door will open electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.

EFFECTIVITY
ARO ALL

52-35 TASKS 818-819



**777-200/300
FAULT ISOLATION MANUAL**

- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Do this check of the cargo door control switches:
 - (a) Hold the internal CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the CLOSE position for 10 seconds.
 - (b) While you operate the switches, if the door does not close, lower or latch do these steps:
 - 1) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- 2) Replace the internal cargo door control switch, S52014 (WDM 52-35-11).
- 3) Do the Repair Confirmation at the end of this task.
- (c) Hold the external CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the CLOSE position for 10 seconds.
- (d) While you operate the switches, if the door does not close, lower or latch, do these steps:
 - 1) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- 2) Replace the external cargo door control switch, S52015 (WDM 52-35-11).
These are the tasks:
External Cargo Door Control Switch Removal, AMM TASK 52-35-22-000-801,
External Cargo Door Control Switch Installation, AMM TASK 52-35-22-400-801.
- 3) Do the Repair Confirmation at the end of this task.
- (e) If the problem continues, then do these steps:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.

EFFECTIVITY
ARO ALL

52-35 TASK 819



**777-200/300
FAULT ISOLATION MANUAL**

- 2) Repair the wiring between the external cargo door control switch, S52015, on the P44 panel and the lift/latch down relay, K52007, or hinge down relay, K52005 on the P39 panel.
- 3) Do the Repair Confirmation at the end of this task.
- 4) Re-install the cargo compartment lining.

C. Repair Confirmation

- (1) Do these steps to confirm the repair:
 - (a) Remove the DO-CLOSE-CLOSE tag and close these circuit breakers:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the CLOSE position for 10 seconds.
- (c) If the door closes, lowers or latches while you operate the switches, you corrected the fault.

————— **END OF TASK** —————

820. ASCD Does Not Unlatch, Open, Close, and Latch Electrically, Manual Operation OK - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
 - (a) Make sure the door will not unlatch and lift electrically.
 - (b) Make sure the door will not open electrically.
 - (c) Make sure the door will not close electrically.
 - (d) Make sure the door will not lower and latch electrically.
 - (e) Make sure the door will unlatch and lift manually.
 - (f) Make sure the door will open manually.
 - (g) Make sure the door will close manually.
 - (h) Make sure the door will lower and latch manually.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.

EFFECTIVITY
ARO ALL

52-35 TASKS 819-820



**777-200/300
FAULT ISOLATION MANUAL**

- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Replace the arming relay, K52010 as follows:

- (a) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (b) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
- (c) Replace the arming relay, K52010 (WDM 52-35-11).
- (d) Do the Repair Confirmation at the end of this task.
- (2) Do this check of the wiring between the arming relay, K52010, and the cargo door control switches and ground:

- (a) Remove the arming relay, K52010.
- (b) Remove the DO-NOT-CLOSE tag and close this circuit breaker:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- (c) Hold the internal CARGO DOOR CONTROL ARM switch in the inboard and outboard ARM positions.
- (d) While you operate the switch, do a wiring check for 28V dc at pin X1 of connector DK52010 in the P39 panel (WDM 52-35-11).
- (e) Release the switch.
- (f) Hold the external CARGO DOOR CONTROL ARM switch in the up and down ARM positions.
- (g) While you operate the switch, do a wiring check for 28V dc at pin X1 of connector DK52010 in the P39 panel (WDM 52-35-11).
- (h) Release the switch.
- (i) If there was 28V dc at pin X1 of connector DK52010 when you operated the internal CARGO DOOR CONTROL ARM switch, but not when you operated the external switch, then do these steps:

- 1) Replace the external cargo door control arming switch, S52016 (WDM 52-35-11).

These are the tasks:

EFFECTIVITY ARO ALL

52-35 TASK 820



777-200/300
FAULT ISOLATION MANUAL

External Cargo Door Control Switch Removal, AMM TASK 52-35-22-000-801,
External Cargo Door Control Switch Installation, AMM TASK 52-35-22-400-801.

- 2) Do the Repair Confirmation at the end of this task.
- 3) Hold the external CARGO DOOR CONTROL ARM switch in the up and down ARM positions.
- 4) While you operate the switch, do a wiring check for 28V dc at these pins of connector D7315 in the P39 panel (WDM 52-35-11).

D7315J	D7315P
pin 7	pin 1

- 5) Release the switch.
- 6) If there was not 28V dc at pin 7 of connector D7315J when you operated the external CARGO DOOR CONTROL ARM switch, then do these steps:
 - a) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- b) Repair the wiring.
- c) Do the Repair Confirmation at the end of this task.

- (j) If there was 28V dc at pin X1 of connector DK52010 when you operated the external CARGO DOOR CONTROL ARM switch, but not when you operated the internal switch, then do these steps:

- 1) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

- 2) Replace the internal cargo door control arming switch, S52013 (WDM 52-35-11).
- 3) Do the Repair Confirmation at the end of this task.
- 4) Hold the internal CARGO DOOR CONTROL ARM switch in the inboard and outboard ARM positions.
- 5) While you operate the switch, do a wiring check for 28V dc at these pins of connector D7316 in the P39 panel (WDM 52-35-11).

D7316J	D7316P
pin 23	pin 30

- 6) Release the switch.
- 7) If there was not 28V dc at pin 7 of connector D7315J when you operated the external CARGO DOOR CONTROL ARM switch, then do these steps:

EFFECTIVITY ARO ALL

52-35 TASK 820



**777-200/300
FAULT ISOLATION MANUAL**

8) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

9) Repair the wiring between the internal cargo door control arming switch, S52013, and P39 panel.

10) Do the Repair Confirmation at the end of this task.

(k) If there was not 28V dc at pin X1 of connector DK52010 when you operated either the internal or external CARGO DOOR CONTROL ARM switch, then do these steps:

1) Push the DOOR UP light (PRESS-TO-TEST) on the external cargo door control panel, P44.

2) If the light shows, do these steps:

a) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

b) Repair the wiring between the P44 and P39 panels.

3) If the light does not show, do these steps:

a) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

b) Repair the wiring between the P39 and P320 panels.

4) Do the Repair Confirmation at the end of this task.

(l) If there was 28V dc at pin X1 of connector DK52010 when you operated the both the external and internal CARGO DOOR CONTROL ARM switches, but the door did not move, then do these steps:

1) Replace the external cargo door control switch, S52015 (WDM 52-35-11).

These are the tasks:

External Cargo Door Control Switch Removal, AMM TASK 52-35-22-000-801,

External Cargo Door Control Switch Installation, AMM TASK 52-35-22-400-801.

2) Do the Repair Confirmation at the end of this task.

3) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

4) Replace the internal cargo door control arming switch, S52013 (WDM 52-35-11).

5) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-35 TASK 820



777-200/300
FAULT ISOLATION MANUAL

6) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

7) Repair the wiring between the *****

8) Do the Repair Confirmation at the end of this task.

(m) Do a wiring check for ground at pin X2 of connector DK52010 in the P39 panel (WDM 52-35-11).

(n) If there was not ground at connector DK52010, then do these steps:

1) Open this circuit breaker and attach a DO-NOT-CLOSE tag:

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

2) Repair the wiring.

3) Re-install the arming relay, K52010.

4) Do the Repair Confirmation at the end of this task.

C. Repair Confirmation

(1) Do these steps to confirm the repair:

(a) Remove the DO-NOT-CLOSE tag and close these circuit breakers:

Cargo Handling Accessory Panel - Aft, P39

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C52304	AFT CARGO DOOR

Ground Service/Handling Power Panel, P320

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	11	C52604	CGO DR CTRL

(b) Hold the CARGO DOOR CONTROL ARM switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN or CLOSE position for 10 seconds.

(c) If the door unlatches, lifts, opens, closes, lowers or latches while you operate the switches, you corrected the fault. Do these steps to complete the task:

1) Re-install the cargo compartment lining.

————— END OF TASK —————

821. ASCD Does Not Unlatch/Lift and Lower/Latch Electrically or Manually - Fault Isolation

A. Initial Evaluation

(1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.

(a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:

1) Find the message in the applicable Maintenance Message Index in the FIM.

2) Do the specified fault isolation task.

EFFECTIVITY ARO ALL

52-35 TASKS 820-821



777-200/300 FAULT ISOLATION MANUAL

- (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do the applicable checks of the aft small cargo door (ASCD) operation:
 - (a) Make sure the door will not unlatch and lift electrically.
 - (b) Make sure the door will not unlatch and lift manually.
 - (c) Make sure the door will not lower and latch electrically.
 - (d) Make sure the door will not lower and latch manually.
 - (e) Make sure the door will open electrically.
 - (f) Make sure the door will close electrically.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Turn the lift/latch manual drive in the open direction and do this check of the torque applied:
 - (a) If the torque is less than 35 pound-inches, do these steps:
 - 1) Do this task: Open the Aft Small Cargo Door with Failure of the Lift/Latch Power Drive Unit (PDU), AMM TASK 52-35-00-010-801.
 - 2) Replace the lift/latch power drive unit, M52230.
These are the tasks:
Lift/Latch Power Drive Unit Removal, AMM TASK 52-35-05-000-801,
Lift/Latch Power Drive Unit Installation, AMM TASK 52-35-05-400-801.
 - 3) Do the Repair Confirmation at the end of this task.
 - (b) If the torque is 35-45 pound-inches, then there is a jam in the lift/latch power drive unit, M52230, or between the lift/latch power drive unit and the lift/latch mechanism.
 - 1) Do this task: Open the Aft Small Cargo Door with Failure of the Lift/Latch Power Drive Unit (PDU), AMM TASK 52-35-00-010-801.
 - 2) Remove the applicable cargo compartment lining to get access to the lift/latch mechanism.
 - 3) Examine the mechanism between the lift/latch power drive unit, M52230, and the lift/latch mechanism.
 - 4) If you find damage or a jam, repair the mechanism.
 - 5) Do this task: Aft Small Cargo Door Adjustment, AMM TASK 52-35-00-820-801.
NOTE: Only do the Lift/Latch Mechanism Rigging.
 - 6) If you do not find damage or a jam, the jam is in the lift/latch power drive unit, M52230, and you must replace it.
These are the tasks:
Lift/Latch Power Drive Unit Removal, AMM TASK 52-35-05-000-801,

EFFECTIVITY
ARO ALL

52-35 TASK 821

D633W103-ARO

Page 242
Sep 05/2016



777-200/300 FAULT ISOLATION MANUAL

Lift/Latch Power Drive Unit Installation, AMM TASK 52-35-05-400-801.

- 7) Do the Repair Confirmation at the end of this task.
- (c) If the torque is more than 45 pound-inches, then there is a jam in the lift/latch power drive unit, M52230, or between the lift/latch power drive unit and the lift/latch manual drive port.
 - 1) Do this task: Open the Aft Small Cargo Door with Failure of the Lift/Latch Power Drive Unit (PDU), AMM TASK 52-35-00-010-801.
 - 2) Remove the applicable cargo compartment lining to get access to the lift/latch mechanism.
 - 3) Examine the mechanism between the lift/latch power drive unit, M52230, and the lift/latch manual drive port for damage or a jam.
 - 4) If you find damage or a jam, repair the mechanism.
 - 5) If you do not find damage or a jam, the jam is in the lift/latch power drive unit, M52230, and you must replace it.

These are the tasks:

Lift/Latch Power Drive Unit Removal, AMM TASK 52-35-05-000-801,

Lift/Latch Power Drive Unit Installation, AMM TASK 52-35-05-400-801.

- 6) Do the Repair Confirmation at the end of this task.

C. Repair Confirmation

- (1) Do these steps to confirm the repair:
 - (a) Hold the CARGO DOOR CONTROL switch in the ARM position and the CARGO DOOR CONTROL switch in the OPEN or CLOSE position for 10 seconds.
 - (b) If the door unlatches and lifts or lowers and latches while you operate the switches, you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.

————— END OF TASK —————

822. ASCD Does Not Open and Close Electrically or Manually - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the aft small cargo door (ASCD) shows in the Present Leg Faults, then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the ASCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the aft small cargo door (ASCD) operation:
 - (a) Make sure the door will not open electrically.
 - (b) Make sure the door will not open manually.
 - (c) Make sure the door will not close electrically.
 - (d) Make sure the door will not close manually.
 - (e) Make sure the door will latch and lower electrically.
 - (f) Make sure the door will unlatch and lift electrically.

EFFECTIVITY
ARO ALL

52-35 TASKS 821-822

D633W103-ARO

Page 243
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Turn the hinge manual drive in the open direction and do this check of the torque applied:

NOTE: The door must be in the lifted position.

- (a) If the torque is less than 35 pound-inches, replace the hinge power drive unit or the applicable rotary actuator.
 - 1) These are the tasks:
Hinge Power Drive Unit Removal, AMM TASK 52-35-02-000-801,
Hinge Power Drive Unit Installation, AMM TASK 52-35-02-400-801.
 - 2) These are the tasks:
Rotary Actuator Removal, AMM TASK 52-35-03-000-801,
Rotary Actuator Installation, AMM TASK 52-35-03-400-801.
 - 3) Do the Repair Confirmation at the end of this task.
- (b) If the torque is 35-45 pound-inches, then there is a jam in the hinge power drive unit, M52229, or between the hinge power drive unit and the hinge mechanism.
 - 1) Do this task: Open the Aft Small Cargo Door with Failure of the Hinge Power Drive Unit (PDU) or Rotary Actuator (Jammed), AMM TASK 52-35-00-010-802.
 - 2) Remove the applicable cargo compartment lining to get access to the hinge mechanism.
 - 3) Examine the mechanism between the hinge power drive unit, M52229, and the hinge mechanism.
 - 4) If you find damage or a jam, repair the mechanism.
 - 5) Adjust the hinge mechanism. To adjust it, do this task: Aft Small Cargo Door Adjustment, AMM TASK 52-35-00-820-801.
NOTE: Only do the Door Alignment Rigging.
 - 6) If you do not find damage or a jam, the jam is in the hinge power drive unit, M52229, or a rotary actuator, and you must replace the applicable unit.
 - a) These are the tasks:
Hinge Power Drive Unit Removal, AMM TASK 52-35-02-000-801,
Hinge Power Drive Unit Installation, AMM TASK 52-35-02-400-801.
 - b) These are the tasks:
Rotary Actuator Removal, AMM TASK 52-35-03-000-801,
Rotary Actuator Installation, AMM TASK 52-35-03-400-801.
 - 7) Do the Repair Confirmation at the end of this task.

EFFECTIVITY
ARO ALL

52-35 TASK 822

D633W103-ARO

Page 244
Sep 05/2016



**777-200/300
FAULT ISOLATION MANUAL**

- (c) If the torque is more than 45 pound-inches, then there is a jam in the hinge power drive unit, M52229, a rotary actuator, or between the hinge power drive unit and the hinge manual drive port.
 - 1) Do this task: Open the Aft Small Cargo Door with Failure of the Hinge Power Drive Unit (PDU) or Rotary Actuator (Jammed), AMM TASK 52-35-00-010-802.
 - 2) Remove the applicable cargo compartment lining to get access to the hinge mechanism.
 - 3) Examine the mechanism between the hinge power drive unit, M52229, and the hinge manual drive port for damage or a jam.
 - 4) If you find damage or a jam, repair the mechanism.
 - 5) If you do not find damage or a jam, the jam is in the hinge power drive unit, M52229, or a rotary actuator, and you must replace the applicable unit.
 - a) These are the tasks:
Hinge Power Drive Unit Removal, AMM TASK 52-35-02-000-801,
Hinge Power Drive Unit Installation, AMM TASK 52-35-02-400-801.
 - b) These are the tasks:
Rotary Actuator Removal, AMM TASK 52-35-03-000-801,
Rotary Actuator Installation, AMM TASK 52-35-03-400-801.
 - 6) Do the Repair Confirmation at the end of this task.

C. Repair Confirmation

- (1) Do these steps to confirm the repair:
 - (a) Hold the CARGO DOOR CONTROL switch in the ARM position and the cARGO DOOR CONTROL switch in the OPEN or CLOSE position for 10 seconds.
 - (b) If the door opens or closes while you operate the switches, you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.

————— **END OF TASK** —————

823. ASCD Control Switches Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11930.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the arming relay, K52010, and the proximity sensor electronics unit (PSEU) 2, M32025:
 - (a) Remove the PSEU 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (b) Do these steps to remove the arming relay, K52010:

EFFECTIVITY
ARO ALL

52-35 TASKS 822-823

D633W103-ARO

Page 245
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

- 1) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
- 2) Remove the arming relay, K52010 (WDM 52-35-11).
- (c) Do a wiring check between these pins of connector DK52010 at the arming relay, K52010, and connector DM32025AE at the PSEU 2, M32025 (WDM 52-35-11) (WDM 52-71-15):

DK52010	DM32025AE
pin D2	pin K4

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Re-install the arming relay, K52010 (WDM 52-35-11).
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the applicable cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.

- (2) Do this check of the wiring between internal cargo door control switch, S52014, and the PSEU 2, M32025:

- (a) Remove the internal cargo door control switch, S52014, from the internal cargo door control panel.
- (b) Do a wiring check between these pins of internal cargo door control switch, S52014, and connector DM32025AE at the PSEU 2, M32025 (WDM 52-35-11) (WDM 52-71-15):

S52014	DM32025AE
pin 2	pin K4

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Re-install the internal cargo door control switch, S52014, in the internal cargo door control panel.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) If you do not find a problem with the wiring, then continue.

- (3) Do this check of the wiring between external cargo door control switch, S52015, and the PSEU 2, M32025:

- (a) Remove the external cargo door control switch, S52015, from the external cargo door control panel, P44.

EFFECTIVITY
ARO ALL

52-35 TASK 823



**777-200/300
FAULT ISOLATION MANUAL**

- (b) Do a wiring check between these pins of external cargo door control switch, S52015, and connector DM32025AE at PSEU 2, M32025 (WDM 52-35-11) (WDM 52-71-15):

S52015	DM32025AE
pin 3	pin K4

- (c) If you find a problem with the wiring, then do these steps:
- 1) Repair the wiring.
 - 2) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Re-install the external cargo door control switch, S52015, in the external cargo door control panel, P44.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) If you do not find a problem with the wiring, then continue.
- (e) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (4) Do these steps to replace the arming relay, K52010:
- (a) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
 - (b) Replace the arming relay, K52010 (WDM 52-35-11).
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the applicable cargo compartment lining.
 - (d) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the internal cargo door control switch, S52014 (WDM 52-35-11).
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the switch S52015.
- These are the tasks:
- External Cargo Door Control Switch Removal, AMM TASK 52-35-22-000-801,
External Cargo Door Control Switch Installation, AMM TASK 52-35-22-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the circuit card assembly CCA, Proximity, A06 in PSEU 2.
- These are the tasks:
- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

EFFECTIVITY
ARO ALL

52-35 TASK 823

D633W103-ARO

Page 247
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (8) Replace the PSEU 2, M32025.

These are the tasks:

- Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
- Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

824. ASCD Door Up Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21050.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52008 from the door up proximity sensor, S52008.
 - (b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52008 at the door up proximity sensor, S52008, and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

DS52008	DM32021AE
pin 2	pin C11
pin 3	pin C12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52008.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the door up proximity sensor, S52008. To replace it, do this task: Door Up Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-801.

EFFECTIVITY ARO ALL

52-35 TASKS 823-824



777-200/300
FAULT ISOLATION MANUAL

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 1, M32021.

These are the tasks:

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

825. ASCD Door Lifted Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21060.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
 - (b) Remove the applicable door lining to get access to the door lifted proximity sensor, S52009.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52009 from the door lifted proximity sensor, S52009.
 - (b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52009 at the door lifted proximity sensor, S52009, and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

DS52009		DM32021AE
pin 2	.....	pin B11
pin 3	.....	pin B12

- (d) If you find a problem with the wiring, then do these steps:

EFFECTIVITY
ARO ALL

52-35 TASKS 824-825



**777-200/300
FAULT ISOLATION MANUAL**

- 1) Repair the wiring.
- 2) Re-connect connector DS52009.
- 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the door lining.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the door lifted proximity sensor, S52009. To replace it, do this task: Door Lifted Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-802.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.

These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 1, M32021.

These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.

————— **END OF TASK** —————

826. ASCD Latched Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21070.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

EFFECTIVITY
ARO ALL

52-35 TASKS 825-826

D633W103-ARO

Page 250
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
 - (b) Remove the applicable door lining to get access to the latched proximity sensor, S52011.
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52011 from the latched proximity sensor, S52011.
 - (b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52011 at the latched proximity sensor, S52011, and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

DS52011	DM32021AE
pin 2	pin E11
pin 3	pin E12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52011.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the door lining.
- (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the latched proximity sensor, S52011. To replace it, do this task: Door Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-803.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 1, M32021.

These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,

EFFECTIVITY
ARO ALL

52-35 TASK 826



777-200/300
FAULT ISOLATION MANUAL

Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.

————— END OF TASK —————

827. ASCD Door Down Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21080.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52012 from the door down proximity sensor, S52012.
 - (b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52012 at the door down proximity sensor, S52012, and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

DS52012	DM32021AE
pin 2	pin A11
pin 3	pin A12

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52012.
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the door down proximity sensor, S52012. To replace it, do this task: Door Down Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-804.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.

EFFECTIVITY ARO ALL

52-35 TASKS 826-827



**777-200/300
FAULT ISOLATION MANUAL**

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the proximity sensor electronics unit (PSEU) 1, M32021.

These are the tasks:

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

828. ASCD Door Control Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21190, 52-21200, 52-21210, 52-21220.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
 - (b) Remove the applicable door lining to get access to the applicable door control proximity sensor and its target.
- (2) Do a check on the applicable door control proximity sensor as follows:
 - (a) Look for a sensor actuator/deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (3) If there is material debris or a sensor actuator/deactuator near the proximity sensor, do these steps:
 - (a) Remove the material debris or the sensor actuator/deactuator.
 - (b) Replace the target if it is necessary.
 - (c) Do the applicable procedure below to adjust the applicable door control proximity sensor.
 - 1) Do this task: Door Up Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-801.
NOTE: Only do the Adjustment.
 - 2) Do this task: Door Down Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-804.
NOTE: Only do the Adjustment.

EFFECTIVITY
ARO ALL

52-35 TASKS 827-828

D633W103-ARO

Page 253
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

3) Do this task: Door Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-803.

NOTE: Only do the Adjustment.

4) Do this task: Door Lifted Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-802.

NOTE: Only do the Adjustment.

(d) Close and latch the door.

(e) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:

1) Re-install the door lining.

(f) If the MAT shows ACTIVE for the maintenance message, then continue.

(4) Do this check of the wiring:

(a) Disconnect the applicable connector from the applicable door control proximity sensor.

(b) Remove the proximity sensor electronics unit (PSEU) 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

(c) Do a wiring check between these pins of the connector at the proximity sensor and connector DM32021AE at the E1-5 shelf (WDM 52-35-11):

	PROXIMITY SENSOR CONNECTOR	PSEU CONNECTOR
DOOR UP	DS52008	DM32021AE
	PIN 2	PIN C11
	PIN 3	PIN C12
DOOR LIFTED	DS52009	DM32021AE
	PIN 2	PIN B11
	PIN 3	PIN B12
LATCHED	DS52011	DM32021AE
	PIN 2	PIN E11
	PIN 3	PIN E12
DOOR DOWN	DS52012	DM32021AE
	PIN 2	PIN A11
	PIN 3	PIN A12

(d) If you find a problem with the wiring, then do these steps:

1) Repair the wiring.

2) Re-connect applicable proximity sensor connector.

3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:

a) Re-install the door lining.

EFFECTIVITY
ARO ALL

52-35 TASK 828



**777-200/300
FAULT ISOLATION MANUAL**

- (e) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (5) Replace the applicable door control proximity sensor.
 - (a) Do the applicable procedure below to replace the applicable door control proximity sensor.
 - 1) Do this task: Door Up Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-801.
 - 2) Do this task: Door Down Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-804.
 - 3) Do this task: Door Latched Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-803.
 - 4) Do this task: Door Lifted Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-35-10-900-802.
 - (b) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
 - (c) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.

These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the PSEU 1, M32021.

These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the door lining.

————— **END OF TASK** —————

829. ASCD Closed Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21520.

EFFECTIVITY ARO ALL

52-35 TASKS 828-829

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52023 from the closed proximity sensor, S52023.
 - (b) Remove the proximity sensor electronics unit (PSEU) 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52023 at the closed proximity sensor, S52023, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52023	DM32025AE
pin 2	pin D9
pin 3	pin D10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52023.
 - 3) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the closed proximity sensor, S52023. To replace it, do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly (CCA), Prox Driver, B04 in PSEU 2.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 2, M32025.
These are the tasks:

EFFECTIVITY ARO ALL

52-35 TASK 829



777-200/300
FAULT ISOLATION MANUAL

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

830. ASCD Latched and Locked Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21530.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the aft small cargo door (ASCD).
- (2) Do this check of the wiring:
 - (a) Disconnect connector DS52024 from the latched and locked proximity sensor, S52024.
 - (b) Remove the proximity sensor electronics unit (PSEU) 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52024 at the latched and locked proximity sensor, S52024, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52024		DM32025AE
pin 2	.....	pin E9
pin 3	.....	pin E10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52024.
 - 3) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the latched and locked proximity sensor, S52024. To replace it, do this task: Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-802.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

EFFECTIVITY
ARO ALL

52-35 TASKS 829-830



777-200/300
FAULT ISOLATION MANUAL

- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the circuit card assembly (CCA), Prox Driver, B04 in PSEU 2.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 2, M32025.
These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

831. ASCD Control Switches Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21930.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the arming relay, K52010, and the proximity sensor electronics unit (PSEU) 2, M32025:
 - (a) Remove the PSEU 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (b) Do these steps to remove the arming relay, K52010:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
 - 2) Remove the arming relay, K52010 (WDM 52-35-11).
 - (c) Do a wiring check between these pins of connector DK52010 at the arming relay, K52010, and connector DM32025AE at the PSEU 2, M32025 (WDM 52-35-11) (WDM 52-71-15):

DK52010	DM32025AE
pin D2	pin K4
 - (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.

EFFECTIVITY ARO ALL

52-35 TASKS 830-831



**777-200/300
FAULT ISOLATION MANUAL**

- 2) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- 3) Re-install the arming relay, K52010 (WDM 52-35-11).
- 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the applicable cargo compartment lining.
- 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (2) Do this check of the wiring between internal cargo door control switch, S52014, and the PSEU 2, M32025:
 - (a) Remove the internal cargo door control switch, S52014, from the internal cargo door control panel.
 - (b) Do a wiring check between these pins of internal cargo door control switch, S52014, and connector DM32025AE at the PSEU 2, M32025 (WDM 52-35-11) (WDM 52-71-15):

S52014	DM32025AE
pin 2	pin K4

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Re-install the internal cargo door control switch, S52014, in the internal cargo door control panel.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) If you do not find a problem with the wiring, then continue.
- (3) Do this check of the wiring between external cargo door control switch, S52015, and the PSEU 2, M32025:
 - (a) Remove the external cargo door control switch, S52015, from the external cargo door control panel, P44.
 - (b) Do a wiring check between these pins of external cargo door control switch, S52015, and connector DM32025AE at PSEU 2, M32025 (WDM 52-35-11) (WDM 52-71-15):

S52015	DM32025AE
pin 3	pin K4

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Re-install the external cargo door control switch, S52015, in the external cargo door control panel, P44.

EFFECTIVITY ARO ALL

52-35 TASK 831



**777-200/300
FAULT ISOLATION MANUAL**

- 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) If you do not find a problem with the wiring, then continue.
- (e) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (4) Do these steps to replace the arming relay, K52010:
 - (a) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
 - (b) Replace the arming relay, K52010 (WDM 52-35-11).
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the applicable cargo compartment lining.
 - (d) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the internal cargo door control switch, S52014 (WDM 52-35-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the switch S52015.

These are the tasks:

External Cargo Door Control Switch Removal, AMM TASK 52-35-22-000-801,
External Cargo Door Control Switch Installation, AMM TASK 52-35-22-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the circuit card assembly (CCA), Prox Driver, B03 in PSEU 2.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (8) Replace the PSEU 2, M32025.

These are the tasks:

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

———— **END OF TASK** ————

EFFECTIVITY
ARO ALL

52-35 TASK 831

D633W103-ARO

Page 260
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

832. ASCD Door Indication Proximity Sensor Target Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-21970, 52-21980.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Open the aft small cargo door (ASCD).
- (2) Do a check on the applicable door indication proximity sensor as follows:
 - (a) Look for a sensor actuator/deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
- (3) If there is material debris or a sensor actuator/deactuator near the proximity sensor, do these steps:
 - (a) Remove the material debris or the sensor actuator/deactuator.
 - (b) Replace the target if it is necessary.
 - (c) Do the applicable procedure below to adjust the applicable door indication proximity sensor.
 - 1) Do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-801.
NOTE: Only do the Adjustment.
 - 2) Do this task: Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-802.
NOTE: Only do the Adjustment.
 - (d) Close and latch the door.
 - (e) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 1) Re-install the door lining.
 - (f) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Do this check of the wiring:
 - (a) Disconnect the applicable connector from the applicable door indication proximity sensor.
 - (b) Remove the proximity sensor electronics unit (PSEU) 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the connector at the proximity sensor and connector DM32025AE at the E4-1 shelf (WDM 52-35-11):

EFFECTIVITY
ARO ALL

52-35 TASK 832

D633W103-ARO

Page 261
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

	SENSOR CONNECTOR	PSEU CONNECTOR
Closed	DS52023	DM32025AE
	pin 2	pin D9
	pin 3	pin D10
Latched and Locked	DS52024	DM32025AE
	pin 2	pin E9
	pin 3	pin E10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect applicable proximity sensor connector.
 - 3) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- (e) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (5) Replace the applicable door indication proximity sensor.
 - (a) Do the applicable procedure below to replace the applicable door indication proximity sensor.
 - 1) Do this task: Closed Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-801.
 - 2) Do this task: Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-03-900-802.
 - (b) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (c) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 2.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the PSEU 2, M32025.
These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

EFFECTIVITY
ARO ALL

52-35 TASK 832



777-200/300
FAULT ISOLATION MANUAL

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

833. ASCD Relay Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 52-23170, 52-23180, 52-23190, 52-23210, 52-23220.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the applicable relay and proximity sensor electronics unit (PSEU) 1.
 - (a) Do these steps to remove the applicable relay:
 - 1) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
 - 2) Remove the applicable relay (WDM 52-35-11) (WDM 33-37-21).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the applicable relay connector and connector DM32021AE at the E1-5 shelf (WDM 52-35-11) (WDM 33-37-21):

	RELAY CONNECTOR	PSEU CONNECTOR
Hinge Down K52005	DK52005 pin X2	DM32021AE pin A15
Hinge Up K52006	DK52006 pin X2	DM32021AE pin B15
Door Lifted K33151	DK33151 pin X2	DM32021AE pin C15
Lift/Latch Down K52007	DK52007 pin X2	DM32021AE pin E15
Lift/Latch Up K52008	DK52008 pin X2	DM32021AE pin F15

- (d) If you find a problem with the wiring, then do these steps:

EFFECTIVITY
ARO ALL

52-35 TASKS 832-833



**777-200/300
FAULT ISOLATION MANUAL**

- 1) Repair the wiring.
 - 2) Re-install the applicable relay (WDM 52-35-11) (WDM 33-37-21).
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (2) Replace the applicable relay (WDM 52-35-11).
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
- 1) Re-install the cargo compartment lining.
 - 2) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the circuit card assembly (CCA), Prox Driver, B04 in PSEU 1.
- These are the tasks:
- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
- 1) Re-install the cargo compartment lining.

————— **END OF TASK** —————

834. ASCD Cargo Door Closed Light Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-23230.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the aft small cargo door (ASCD) door latched light, L52004, and proximity sensor electronics unit (PSEU) 1.
 - (a) Remove the door latched light, L52004, from the external cargo door control panel, P44 (WDM 52-35-11).
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.

EFFECTIVITY
ARO ALL

52-35 TASKS 833-834

D633W103-ARO

Page 264
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

(c) Do a wiring check between these pins of the door latched light, L52004, and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 52-35-11):

L52004	DM32021AE
pin 2	pin G15

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the door latched light, L52004 (WDM 52-35-11).
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (2) Replace the door latched light, L52004 (WDM 52-35-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.

These are the tasks:

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

835. ASCD Door Open Circuit Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-23200.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do this check of the wiring between the aft small cargo door (ASCD) door up light, L52003, and the isolation diode, R52002:
 - (a) Remove the door up light, L52003, from the external cargo door control panel, P44 (WDM 52-35-11).
 - (b) Remove the isolation diode, R52002, from the P39 panel as follows:

EFFECTIVITY
ARO ALL

52-35 TASKS 834-835

D633W103-ARO



777-200/300
FAULT ISOLATION MANUAL

- 1) Remove the applicable cargo compartment lining to get access to the back of the P39 panel.
- 2) Remove the isolation diode, R52002 (WDM 52-35-11).
- (c) Do a wiring check between these pins of the door up light, L52003, and the isolation diode, R52002 (WDM 52-35-11).

L52003	R52002
pin 2	pin A

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the door up light, L52003 (WDM 52-35-11).
 - 3) Re-install the isolation diode, R52002 (WDM 52-35-11).
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (2) Do this check of the wiring between the isolation diode, R52002 and the craigs diode, R33019, and the proximity sensor electronics unit (PSEU) 1, M32021:
 - (a) Remove the isolation diode, R52002, (WDM 52-35-11) and the craigs diode, R33019, (WDM 33-31-16) from the P39 panel.
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of the isolation diode, R52002, (WDM 52-35-11) and the craigs diode, R33019, (WDM 33-31-16) and connector DM32021AE at PSEU 1 on the E1-5 shelf (WDM 52-35-11):

PSEU 1	DIODE (Pin)
(Conn-Pin)	R33019
DM32021AE	
pin D15	pin C

DM32021AE	R52002
pin D15	pin C

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the isolation diode, R52002, (WDM 52-35-11) and the craigs diode, R33019, (WDM 33-31-16).
 - 3) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.

EFFECTIVITY
ARO ALL

52-35 TASK 835



777-200/300
FAULT ISOLATION MANUAL

- (e) If you do not find a problem with the wiring, then continue.
- (3) Do this check of the wiring between the ASCD door fully open relay, K33152, and the craigs diode, R33019:
 - (a) Remove the craigs diode, R33019, from the P39 panel (WDM 33-31-16).
 - (b) Remove the relay, K33152, from the P39 panel (WDM 33-31-16).
 - (c) Do a wiring check between these pins of the door fully open relay, K33152, and the craigs diode, R33019 (WDM 33-31-16):

K33152	R33019
pin X2	pin A

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the diode, R33019 (WDM 33-31-16).
 - 3) Re-install the relay, K33152 (WDM 33-31-16).
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (4) Do this check of the wiring between the cargo system controller (CSC), M25002, and the proximity sensor electronics unit (PSEU) 1, M32021:
 - (a) Remove the cargo system controller, M25002. To remove it, do this task: Cargo System Controller (CSC) Removal, AMM TASK 25-53-33-000-804-003.
 - (b) Remove the PSEU 1, M32021. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - (c) Do a wiring check between these pins of connector DM25002AD at the CSC on the E17-11 rack and connector DM32021AE at the PSEU 1 on the E1-5 shelf (WDM 25-53-21) (WDM 52-35-11):

DM32021AE	DM25002AD
pin D15	pin E8

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Re-install the PSEU 1, M32021. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 3) Re-install the CSC, M25002, do this task: Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - 5) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) If you do not find a problem with the wiring, then continue.
- (5) Replace the ASCD door up light, L52003, in the P44 panel (WDM 52-35-11).

EFFECTIVITY
ARO ALL

52-35 TASK 835



**777-200/300
FAULT ISOLATION MANUAL**

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (6) Replace the isolation diode, R52002, in the P39 panel (WDM 52-35-11).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (7) Replace the isolation diode, R33019, in the P39 panel (WDM 33-31-16).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (8) Replace the ASCD door fully up relay, K33152 (WDM 33-31-16).
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Re-install the cargo compartment lining.
- (9) Replace the cargo system controller, M25002.

These are the tasks:
Cargo System Controller (CSC) Removal, AMM TASK 25-53-33-000-804-003,
Cargo System Controller (CSC) Installation, AMM TASK 25-53-33-400-804-003.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (10) Replace the circuit card assembly (CCA), Cargo Door Prox Driver, B04 in PSEU 1.

These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

———— **END OF TASK** ————

EFFECTIVITY
ARO ALL

52-35 TASK 835

D633W103-ARO

Page 268
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

801. BCD Closed, Latched and Locked Switch Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-11900.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the bulk cargo door.
 - (b) Remove the applicable cargo compartment lining to get access to the bulk cargo door closed, latched and locked switch, S52020.
- (2) Do this check of the wiring:
 - (a) Disconnect wiring from the closed, latched and locked switch, S52020.
 - (b) Remove the proximity sensor electronics unit (PSEU) 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between the yellow wire at the closed, latched and locked switch, S52020, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

S52020	DM32025AE
yellow	pin K3

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect the wire.
 - 3) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the CCA-Proximity circuit card, A06 in PSEU 2.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
- (4) Replace the PSEU 2, M32025.
These are the tasks:

EFFECTIVITY
ARO ALL

52-36 TASK 801



**777-200/300
FAULT ISOLATION MANUAL**

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.

————— **END OF TASK** —————

802. BCD Unlatches But Does Not Open - Fault Isolation

A. Initial Evaluation

- (1) Do this check of the bulk cargo door (BCD) operation:
 - (a) Make sure the door unlatches freely.
 - (b) Try to open the door.
- (2) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (3) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Do a check of the counterbalance mechanism as follows:
 - (a) Get access to the door through the aft cargo compartment, if it is necessary.
 - (b) Do a check for disconnected or broken counterbalance mechanism components.
 - (c) If the counterbalance mechanism is disconnected or has broken components, re-connect or replace the counterbalance mechanism.
These are the tasks:
Counterbalance Mechanism Removal, AMM TASK 52-36-02-000-801,
Counterbalance Mechanism Installation, AMM TASK 52-36-02-400-801.
 - (d) If the door opens freely, you corrected the fault.
 - (e) If the door does not open freely, then continue.
- (2) Do a check of the snubber as follows:
 - (a) Disconnect the snubber from the door.
 - (b) If the door opens freely, replace the snubber.
These are the tasks:
Snubber Removal, AMM TASK 52-36-03-000-801,
Snubber Installation, AMM TASK 52-36-03-400-801.
 - (c) If the door does not open freely, then continue.
 - (d) Re-connect the snubber to the door.
- (3) Do this task: Bulk Cargo Door Installation, AMM TASK 52-36-01-410-801.

NOTE: Only do the steps to adjust the door.

EFFECTIVITY
ARO ALL

52-36 TASKS 801-802

D633W103-ARO

Page 202
Jan 05/2013



**777-200/300
FAULT ISOLATION MANUAL**

- (a) If the door opens freely, you corrected the fault.

————— **END OF TASK** —————

803. BCD is Difficult to Latch or Unlatch - Fault Isolation

A. Initial Evaluation

- (1) Do this check of the bulk cargo door (BCD) operation:
 - (a) Try to latch or unlatch the door.
- (2) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (3) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) Do a check of the latch mechanism as follows:
 - (a) Get access to the door through the aft cargo compartment, if it is necessary.
 - (b) Remove the applicable door lining.
 - (c) Do a check for broken latch mechanism components.
 - (d) If the latch mechanism has broken components, replace the components.
 - (e) If the door latches or unlatches freely, you corrected the fault.
 - (f) If the door does not latch or unlatch freely, then continue.
- (2) Do this task: Bulk Cargo Door Installation, AMM TASK 52-36-01-410-801.
NOTE: Only do the steps to adjust the latch mechanism.
 - (a) If the door latches or unlatches freely, you corrected the fault.

————— **END OF TASK** —————

804. EICAS Message DOOR BULK CARGO - Fault Isolation

A. Initial Evaluation

- (1) If the EICAS message shows on the EICAS display when the airplane is on the ground, then do the Fault Isolation Procedure below.
- (2) If the EICAS message showed on the EICAS display during flight, but not when the airplane is on the ground, then, do this task: Bulk Cargo Door Closed, Latched and Locked Switch Removal, Installation and Adjustment, AMM TASK 52-71-04-900-801
Only do the Adjustment.
 - (a) If the EICAS message does not show on subsequent flights, you corrected the fault.

B. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the bulk cargo door.
 - (b) Remove the applicable cargo compartment lining to get access to the bulk cargo door closed, latched and locked switch, S52020.

EFFECTIVITY
ARO ALL

52-36 TASKS 802-804

D633W103-ARO

Page 203
Jan 05/2013



777-200/300
FAULT ISOLATION MANUAL

- (2) Visually inspect the bulk cargo door closed, latched and locked switch, S52020.
 - (a) If the potting material on the base of the switch is pushed out the bottom by 0.02 in. (0.51 mm) or more, replace the switch (AMM TASK 52-71-04-900-801).
- (3) Do this check of the wiring:
 - (a) Disconnect wiring from the closed, latched and locked switch, S52020.
 - (b) Remove the proximity sensor electronics unit (PSEU) 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between the yellow wire at the closed, latched and locked switch, S52020, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

S52020	DM32025AE
yellow	pin K3
 - (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect the wire.
 - 3) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the EICAS message does not show on the EICAS display, you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (4) Replace the closed, latched and locked switch, S52020. To replace it, do this task: Bulk Cargo Door Closed, Latched and Locked Switch Removal, Installation and Adjustment, AMM TASK 52-71-04-900-801.
 - (a) If the EICAS message does not show on the EICAS display, you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (b) If the EICAS message shows on the EICAS display, then continue.
- (5) On airplanes with S283W202-13 &-14 PSEUs:
 - (a) Replace the circuit card assembly CCA, Proximity, A06 in PSEU 2.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
 - (b) If the EICAS message does not show on the EICAS display, you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
 - (c) If the EICAS message shows on the EICAS display, then continue.
- (6) On airplanes with PSEUs other than the S283W202-13 &-14 PSEUs:
 - (a) Replace the circuit card assembly (CCA), Prox Driver, B03 in PSEU 2.
These are the tasks:

EFFECTIVITY ARO ALL

52-36 TASK 804



**777-200/300
FAULT ISOLATION MANUAL**

PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.

- (b) If the EICAS message does not show on the EICAS display, you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
- (c) If the EICAS message shows on the EICAS display, then continue.
- (7) Replace the PSEU 2, M32025.

These are the tasks:

Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

- (a) If the EICAS message does not show on the EICAS display, you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.

————— **END OF TASK** —————

805. BCD Closed, Latched and Locked Switch Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21900.

B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Do these steps to prepare for the procedure:
 - (a) Open the bulk cargo door.
 - (b) Remove the applicable cargo compartment lining to get access to the bulk cargo door closed, latched and locked switch, S52020.
- (2) Do this check of the wiring:
 - (a) Disconnect wiring from the closed, latched and locked switch, S52020.
 - (b) Remove the proximity sensor electronics unit (PSEU) 2, M32025. To remove it, do this task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between the yellow wire at the closed, latched and locked switch, S52020, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

S52020	DM32025AE
yellow	pin K3

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect the wire.
 - 3) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

EFFECTIVITY ARO ALL

52-36 TASKS 804-805



**777-200/300
FAULT ISOLATION MANUAL**

- 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - a) Re-install the cargo compartment lining.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the PSEU 2, M32025. To install it, do this task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the circuit card assembly (CCA) Prox Driver, B03 in PSEU 2.
These are the tasks:
PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801,
PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.
- (4) Replace the PSEU 2, M32025.
These are the tasks:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault. Do these steps to complete the task:
 - 1) Re-install the cargo compartment lining.

———— **END OF TASK** ————

EFFECTIVITY
ARO ALL

52-36 TASK 805

D633W103-ARO

Page 206
May 05/2017



777-200/300
FAULT ISOLATION MANUAL

803. EICAS Message DOOR E/E ACCESS or DOOR FWD ACCESS - Fault Isolation

A. Description

- (1) This task is for these Engine Indication and Crew Alerting System (EICAS) Messages:
 - (a) DOOR E/E ACCESS: E/E Access Door is not fully closed, latched and locked.
 - (b) DOOR FWD ACCESS: Forward Access Door is not fully closed, latched and locked.

B. Possible Causes

- (1) E/E Access Door Closed, Latched and Locked Proximity Sensor, S52019 (defective or out of adjustment)
- (2) Forward Access Door Closed, Latched and Locked Proximity Sensor, S52018 (defective or out of adjustment)

C. Initial Evaluation

- (1) Make sure that the door is closed and latched.
- (2) If the EICAS message shows on the EICAS Display, then do the Fault Isolation Procedure below.
- (3) If the EICAS message does not show on the EICAS Display, then there was an intermittent problem.

D. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Open the door.
- (2) Do a check on the applicable Closed, Latched and Locked Proximity Sensor as follows:
 - (a) Look for a Sensor Actuator/Deactuator on the sensor.
 - (b) Look for damage of the target or material debris near the sensor.
 - (c) If there is material debris or a Sensor Actuator/Deactuator near the sensor, do these steps:
 - 1) Remove the material debris or the Sensor Actuator/Deactuator.
 - 2) Replace the target if it is necessary.
 - 3) Do the applicable procedure below to adjust the applicable Closed, Latched and Locked Proximity Sensor.
 - a) Do this task: Closed, Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-06-900-801.
NOTE: Only do the Adjustment.
 - b) Do this task: Closed, Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-05-900-801.
NOTE: Only do the Adjustment.
 - (d) Close and latch the door.
 - (e) If the EICAS message does not show on the EICAS Display, you corrected the problem.

EFFECTIVITY
ARO ALL

52-48 TASK 803

D633W103-ARO

Page 201
Sep 05/2017



777-200/300
FAULT ISOLATION MANUAL

- (f) If the EICAS message shows on the EICAS Display, then continue.
- (3) Do the applicable procedure below to adjust the applicable Closed, Latched and Locked Proximity Sensor.
 - (a) Do this task: Closed, Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-06-900-801.
NOTE: Only do the Adjustment.
 - (b) Do this task: Closed, Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-05-900-801.
NOTE: Only do the Adjustment.
 - (c) Close and latch the door.
 - (d) If the EICAS message does not show on the EICAS Display, you corrected the problem.

————— **END OF TASK** —————

804. Forward Access Door Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21480.

B. Description

- (1) Forward Access Door Closed, Latched and Locked Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) Forward Access Door Closed, Latched and Locked Proximity Sensor, S52018
- (3) Proximity Sensor Electronics Unit (PSEU) Circuit Card, B04
- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the Maintenance Access Terminal (MAT) shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Prepare to do the procedure as follows:
 - (a) Open the door.
- (2) Do a wiring check as follows:

EFFECTIVITY
ARO ALL

52-48 TASKS 803-804

D633W103-ARO

Page 202
Sep 05/2017



**777-200/300
FAULT ISOLATION MANUAL**

- (a) Disconnect connector DS52018 from the Closed, Latched and Locked Proximity Sensor, S52018.
- (b) Remove the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
- (c) Do a wiring check between these pins of connector DS52018 at the Closed, Latched and Locked Proximity Sensor, S52018, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52018		DM32025AE
pin 2	.....	pin G9
pin 3	.....	pin G10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52018.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
 - 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
- (e) If you do not find a problem with the wiring, then continue.
- (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Closed, Latched and Locked Proximity Sensor, S52018. This is the task: Closed, Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-05-900-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the CCA-Proximity Circuit Card, B04 in PSEU 2. These are the tasks:
 - PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 2, M32025. These are the tasks:
 - Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.

————— **END OF TASK** —————

805. E/E Access Door Proximity Sensor Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 52-21490.

EFFECTIVITY ARO ALL

52-48 TASKS 804-805



777-200/300
FAULT ISOLATION MANUAL

B. Description

- (1) E/E Access Door Closed, Latched and Locked Proximity Sensor circuit is open or shorted.

C. Possible Causes

- (1) Wiring
- (2) E/E Access Door Closed, Latched and Locked Proximity Sensor, S52019
- (3) PSEU Circuit Card, B04
- (4) PSEU 2, M32025

D. Related Data

- (1) WDM 52-71-15

E. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.
- (2) If the MAT shows NOT ACTIVE for the maintenance message, then there was an intermittent problem.

F. Fault Isolation Procedure

NOTE: Optional - Proximity Sensor Breakout Box (Crane P/N 380-777-01). Crane Proximity Sensor Breakout Box is used only to examine basic Resistance Sensor Health and Installation (do not use as a rigging tool). The Breakout Box is used to select the correct sensor for the test. Sensors addressed by the Breakout Box include (but not limited to): Forward Large Cargo Door, Aft Small Cargo Door, Aft Large Cargo Door, Passenger Entry Doors, Forward Access Door and Main Equipment Center Access Door. Do the Proximity Sensor Breakout Box Test. Refer to Door and Landing Gear Proximity Sensor Test Using Breakout Box, AMM TASK 52-71-00-720-802.

- (1) Prepare to do the procedure as follows:
 - (a) Open the door.
- (2) Do a wiring check as follows:
 - (a) Disconnect connector DS52019 from the Closed, Latched and Locked Proximity Sensor, S52019.
 - (b) Remove the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801.
 - (c) Do a wiring check between these pins of connector DS52019 at the Closed, Latched and Locked Proximity Sensor, S52019, and connector DM32025AE at the E4-1 shelf (WDM 52-71-15):

DS52019	DM32025AE
pin 2	pin H9
pin 3	pin H10

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Re-connect connector DS52019.
 - 3) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.

EFFECTIVITY
ARO ALL

52-48 TASK 805



**777-200/300
FAULT ISOLATION MANUAL**

- 4) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (e) If you do not find a problem with the wiring, then continue.
 - (f) Re-install the PSEU 2, M32025. This is the task: Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (3) Replace the Closed, Latched and Locked Proximity Sensor, S52019. This is the task: Closed, Latched and Locked Proximity Sensor Removal, Installation and Adjustment, AMM TASK 52-71-06-900-801.
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the CCA-Proximity Circuit Card, B04 in PSEU 2. These are the tasks:
- PSEU Circuit Card Removal, AMM TASK 32-08-02-000-801
 - PSEU Circuit Card Installation, AMM TASK 32-08-02-400-801
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.
 - (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (5) Replace the PSEU 2, M32025. These are the tasks:
- Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801
 - Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801
- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the problem.

———— **END OF TASK** ————

EFFECTIVITY
ARO ALL

52-48 TASK 805

D633W103-ARO

Page 205
Sep 05/2016



777-200/300
FAULT ISOLATION MANUAL

801. FCD difficult to open or close - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the flight compartment door (FCD), then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the flight compartment door (FCD) operation:
 - (a) Make sure the door is difficult to open or close.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) If the door was difficult to operate because it was jammed then do the steps that follow:
 - (a) Adjust the door.

These are the tasks:
Flight Compartment Door Removal, AMM TASK 52-51-01-000-802-002,
Flight Compartment Door Installation, AMM TASK 52-51-01-400-802-002.

 - 1) If the door opened or closed easier, you corrected the fault.
 - (b) If the door did not open or close easier, then continue.
- (2) If the door was difficult to operate because the door lock was jammed then do the steps that follow:
 - (a) Replace the door lock.

These are the tasks:
Flight Compartment Door lock Removal, AMM TASK 52-51-03-000-802-002,
Flight Compartment Door Lock Installation, AMM TASK 52-51-03-400-802-002Apply appropriate enhanced security door rule.

 - 1) If the door opened or closed easier, you corrected the fault.
 - (b) If the door did not open or close easier, then continue.
- (3) Replace the door.

These are the tasks:
Flight Compartment Door Removal, AMM TASK 52-51-01-000-802-002,
Flight Compartment Door Installation, AMM TASK 52-51-01-400-802-002

————— **END OF TASK** —————

EFFECTIVITY
ARO ALL

52-51 TASK 801

D633W103-ARO

Page 201
Jan 05/2013



777-200/300
FAULT ISOLATION MANUAL

802. FCD does not release electrically - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the flight compartment door (FCD), then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the flight compartment door (FCD) operation:
 - (a) Push the FLT DK DOOR switch on the P8 panel to the UNLKD position.
 - (b) Make sure the FCD does not release electrically.
 - (c) Open this circuit breaker and attach a DO-NOT-CLOSE tag:
 - 1) Left Power Management Panel, P110:
 - a) 110N16 FLT DK DR LOCK
 - (d) Make sure the FCD does release electrically.
 - (e) Close this circuit breaker and remove the DO-NOT-CLOSE tag:
 - 1) Left Power Management Panel, P110:
 - a) 110N16 FLT DK DR LOCK
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) If the door did not release electrically when the FLT DK DOOR switch was pushed, then do the steps that follow:
 - (a) Replace the door electrical strike.

These are the tasks:
Electric Strike Removal, AMM TASK 52-51-02-000-802-002,
Electric Strike Installation, AMM TASK 52-51-02-400-802-002.

 - 1) If the door electrically released when the FLT DK DOOR switch was pushed you corrected the fault.
 - (b) If the door did not release electrically when the FLT DK DOOR switch was pushed, then continue.
- (2) If the problem is still present, then do the steps that follow:
 - (a) Replace the OBS AUDIO SELECT panel (WDM 52-51-11).

EFFECTIVITY
ARO ALL

52-51 TASK 802

D633W103-ARO

Page 202
Jan 05/2013



**777-200/300
FAULT ISOLATION MANUAL**

- 1) Push the FLT DK DOOR switch, if the door electrically released when the switch was pushed you corrected the fault.
- (b) Push the FLT DK DOOR switch, if the door did not release electrically when the switch was pushed, then continue.
- (3) Do this check of the wiring between the OBS AUDIO SELECT panel, M52002, and the flight compartment door lock unit, M52001:
 - (a) Remove the OBS AUDIO SELECT panel, M52002, (WDM 52-51-11).
 - (b) Disconnect the connector for the FCD electric strike, M52001, do this task: Electric Strike Removal, AMM TASK 52-51-02-000-802-002.
 - (c) Do a wiring check between these pins of the OBS AUDIO SELECT panel, M52002, and of the FCD electric strike, M52001:

M52002	M52001
pin 15	pin P

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Replace the OBS AUDIO SELECT panel, M52002, (WDM 52-51-11).
 - 3) Replace the FCD electric strike, M52001, do this task: Electric Strike Installation, AMM TASK 52-51-02-400-802-002.
 - a) Push the FLT DK DOOR switch, if the door electrically released when the switch was pushed you corrected the fault.
- (e) Push the FLT DK DOOR switch, if the door did not release electrically when the switch was pushed, then continue.
- (4) Do this check of the wiring between the OBS AUDIO SELECT panel, M52002, and the FLT DK DR LOCK circuit breaker, 110N16:
 - (a) Remove the OBS AUDIO SELECT panel, M52002, (WDM 52-51-11).
 - (b) Do a wiring check between these pins of the OBS AUDIO SELECT panel, M52002, and of the FLT DK DR LOCK circuit breaker, 110N16:

M52002	circuit breaker
DM52002	D11028
pin 15	pin 9

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring.
 - 2) Replace the OBS AUDIO SELECT panel, M52002, (WDM 52-51-11).
 - 3) Replace the FLT DK DR LOCK circuit breaker, 110N16, (WDM 52-51-11).
 - a) Push the FLT DK DOOR switch, if the door electrically released when the switch was pushed you corrected the fault.

———— **END OF TASK** ————

EFFECTIVITY
ARO ALL

52-51 TASK 802



777-200/300
FAULT ISOLATION MANUAL

803. FCD switch does not come on - Fault Isolation

A. Initial Evaluation

- (1) Look at the Extended Maintenance, Present Leg Faults display on the MAT.
 - (a) If a maintenance message related to the flight compartment door (FCD), then do these steps:
 - 1) Find the message in the applicable Maintenance Message Index in the FIM.
 - 2) Do the specified fault isolation task.
 - (b) If a maintenance message related to the FCD does not show in the Present Leg Faults, then continue.
- (2) Do this check of the flight compartment door (FCD) operation:
 - (a) Push the FLT DK DOOR switch on the P8 panel to the UNLKD position.
 - (b) Push the FLT DK DOOR switch on the P8 panel to the LKD position.
 - (c) Make sure the FCD does not come on.
- (3) If you were able to operate the door as specified in each step above, then do the Fault Isolation Procedure below.
- (4) If you were not able to operate the door as specified in each step above, then this is not the correct fault isolation task.
 - (a) Go to the Observed Faults List at the front of the FIM.
 - (b) Look for the fault description which agrees with the conditions you found during the check of the door operation above.
 - (c) Do the specified task.

B. Fault Isolation Procedure

- (1) If the light did not come on when the FLT DK DOOR switch was pushed, then do the steps that follow:
 - (a) Replace the OBS AUDIO SELECT panel, M52002, (WDM 52-51-11).
 - 1) If the light came on when the FLT DK DOOR switch was pushed you corrected the fault.
 - (b) If the light did not come on when the FLT DK DOOR switch was pushed, then continue.
- (2) Do this check of the wiring between the OBS AUDIO SELECT panel, M52002, and the FLT DK DR LOCK circuit breaker, 110N16:
 - (a) Remove the OBS AUDIO SELECT panel, M52002, (WDM 52-51-11).
 - (b) Do a wiring check between these pins of the OBS AUDIO SELECT panel, M52002, and of the FLT DK DR LOCK circuit breaker, 110N16:

M52002	circuit breaker
DM52002	D11028
pin 15	pin 9

- (c) If you find a problem with the wiring, then do these steps:
 - 1) Repair the wiring
 - 2) Replace the OBS AUDIO SELECT panel, M52002, (WDM 52-51-11).
 - 3) Replace the FLT DK DR LOCK circuit breaker, 110N16, (WDM 52-51-11).

EFFECTIVITY ARO ALL

52-51 TASK 803



777-200/300
FAULT ISOLATION MANUAL

- a) Push the FLT DK DOOR switch, if the door electrically released when the switch was pushed you corrected the fault.

————— **END OF TASK** —————

804. Door does not lock in the AUTO position - Fault Isolation

A. Initial Evaluation

- (1) Do these steps to do an operational check of the flight compartment door AUTO Mode.
 - (a) Put the power switch on the chime module, M52003 in the NORM position.
 - (b) Put the flight compartment door lock switch in the AUTO position.
 - (c) Close the flight compartment door.
 - (d) Make sure that the deadbolt on the flight compartment door is unlocked.
 - (e) If the flight compartment door did not lock, then do the applicable Fault Isolation Procedure below.
 - (f) If the flight compartment door did lock, then there was an intermittent fault.

B. Fault Isolation Procedure

- (1) Open the flight compartment door.
- (2) Turn the door lock switch from the UNLOCK to the AUTO position.
- (3) If the electric strike operates, then do this step:
 - (a) Replace the electric strike M52005.
These are the tasks:
Electric Strike Removal, AMM TASK 52-51-02-000-802-002,
Electric Strike Installation, AMM TASK 52-51-02-400-802-002.
NOTE: The electric strike may not be adjusted correctly.
- (4) If the electric strike does not operate, then do these steps:
 - (a) Disconnect connector DM52006 from the pressure sensor, M52006.
 - (b) Put the door lock switch in the AUTO position.
 - (c) Do a check for 28V DC between pin 6 of connector DM52006 at the pressure sensor and structure ground (WDM 52-51-11).
 - (d) If there is not 28V DC between pin 6 of connector DM52006 and the structure ground, do this step:
 - 1) Do a wiring check for 28V DC between pin 2 of connector DM52006 and structure ground.
 - 2) If there is not 28V DC between pin 2 of connector DM52006 and structure ground, do this step:
 - a) Repair the wiring between pin 2 of connector DM52006 and the 28V DC Left Main Bus (WDM 52-51-11).
 - 3) If there is 28V DC between pin 2 of connector DM52006 and structure ground, then do these steps:
 - a) Install a new electric strike M52005.
These are the tasks:
Electric Strike Removal, AMM TASK 52-51-02-000-802-002,

EFFECTIVITY
ARO ALL

52-51 TASKS 803-804

D633W103-ARO

Page 205
Jan 05/2013



**777-200/300
FAULT ISOLATION MANUAL**

Electric Strike Installation, AMM TASK 52-51-02-400-802-002.

- b) Install the pressure sensor M52006. To install the pressure sensor, do this task: Pressure Sensor Installation, AMM TASK 52-51-11-400-801.
- 4) Do these steps to see if the problem is corrected:
 - a) Put the flight compartment door switch in the AUTO position.
 - b) Close the flight compartment door.
 - c) Check that the flight compartment door is locked.
- 5) If the door is locked and the electrical strike is engaged, you have corrected the problem.
- 6) If the electrical strike does not operate, then continue:
 - a) Repair the wiring between pin 6 on connector M520006 and the electric strike (WDM 52-51-11).
 - b) Repair the wiring between pin 7 on connector M52003 and the electric strike (WDM 52-51-11).
 - c) Repair the wiring between pin 8 on connector M52003 and splice SP493 of wire bundle W4117 (WDM 52-51-11).
- 7) If the problem continues, then do this step:
 - a) Install a new chime module M52003.

These are the tasks:
Chime Module Removal, AMM TASK 52-51-10-000-801,
Chime Module Installation, AMM TASK 52-51-10-400-801.
- (e) If there is 28V DC between pin 6 of connector DM52006 and the structure ground, then do these steps:
 - 1) Put the flight compartment door switch in the AUTO position.
 - 2) Do a continuity check between pin 4 of connector DM52006 and structure ground.
 - 3) If there is continuity between pin 4 of connector DM52006 and structure ground, then check for continuity between pins 4 and 6 on the pressure sensor M52006.
 - 4) If there is continuity between pins 4 and 6 on the pressure sensor M52006, then do these steps:
 - a) Install a new electric strike M52005.

These are the tasks:
Electric Strike Removal, AMM TASK 52-51-02-000-802-002,
Electric Strike Installation, AMM TASK 52-51-02-400-802-002.
 - b) Re-install the pressure sensor M52006. To install the pressure sensor, do this task: Pressure Sensor Installation, AMM TASK 52-51-11-400-801.
 - 5) If there is not continuity between pin 4 of connector DM52006 and structure ground, then do these steps:
 - a) Install a new chime module M52003.

These are the tasks:
Chime Module Removal, AMM TASK 52-51-10-000-801,
Chime Module Installation, AMM TASK 52-51-10-400-801.

EFFECTIVITY
ARO ALL

52-51 TASK 804

D633W103-ARO

Page 206
Jan 05/2013



**777-200/300
FAULT ISOLATION MANUAL**

- b) Install the pressure sensor, M52006. To install the pressure sensor, do this task: Pressure Sensor Installation, AMM TASK 52-51-11-400-801.
- 6) If the problem continues, then do these steps:
 - a) Repair the wiring between pin 23 of connector DM52003 on the chime module M52003 and pin 4 of connector DM52006 (WDM 52-51-11).
 - b) Repair the wiring between pin 1 of connector DM52006 and structure ground (WDM 52-51-11).
- 7) Do these steps to see if the problem is corrected:
 - a) Put the flight compartment door switch in the AUTO position.
 - b) Close the flight compartment door.
 - c) Check that the flight compartment door is locked.
- 8) If the door is locked and the electrical strike is engaged, you have corrected the problem.

————— **END OF TASK** —————

805. Door does not unlock in the UNLOCK position - Fault Isolation

A. Initial Evaluation

- (1) Do these steps to do an operational check of the flight compartment door UNLOCK Mode.
 - (a) Open the flight compartment door.
 - (b) Put the flight compartment door lock switch in the AUTO position
 - (c) Make sure that the electric strike is in the locked position.
 - (d) Put the flight compartment door lock switch in the UNLOCK position.
 - (e) If the flight compartment door did not unlock, then do the applicable Fault Isolation Procedure below.
 - (f) If the flight compartment door did unlock, then there was an intermittent fault.

B. Fault Isolation Procedure

- (1) Disconnect connector DM52003 from the chime module, M52003.
- (2) Put the door lock switch in the UNLOCK position.
- (3) Check for continuity between pin 9 of connector DM52003 and structure ground.
 - (a) If there is continuity between pin 9 of DM52003 and structure ground, do this step:
 - 1) Install a new chime module M52003.
These are the tasks:
Chime Module Removal, AMM TASK 52-51-10-000-801,
Chime Module Installation, AMM TASK 52-51-10-400-801.
 - (b) If there is not continuity between pin 9 of connector DM52003 and structure ground, continue.
 - (c) Remove the Flight Deck Door Module Assembly, M52002 from the P8 panel. To remove the flight deck door module assembly, do this task: Flight Deck Door Module Removal, AMM TASK 52-51-13-020-801.
 - (d) Disconnect connector DM52002 from the flight deck door module assembly, M52002.
 - (e) Put the door lock switch in the UNLOCK position.

EFFECTIVITY
ARO ALL

52-51 TASKS 804-805

D633W103-ARO

Page 207
Jan 05/2013



**777-200/300
FAULT ISOLATION MANUAL**

- (f) Check for continuity between pins 5 and 16 of the DM52002 receptacle on the flight deck door module assembly, M52002.
- (g) If there is continuity between pins 5 and 16, then do these steps:
 - 1) Repair the wiring between pin 9 of connector DM52002 and structure ground (WDM 52-51-11).
 - 2) Install the chime module M52003. To install the chime module, do this task: Chime Module Installation, AMM TASK 52-51-10-400-801.
 - 3) Do these steps to see if the problem is corrected:
 - a) Open the flight compartment door.
 - b) Put the flight compartment door lock switch in the AUTO position
 - c) Make sure that the electric strike is in the locked position.
 - d) Put the flight compartment door lock switch in the UNLOCK position.
 - e) Make sure that the electric strike is in the unlock position.
- (h) If there is not continuity between pins 5 and 16, then do these steps:
 - 1) Install a new flight deck door module M52002. To install the flight deck door module, do this task: Flight Deck Door Module Installation, AMM TASK 52-51-13-420-801.
 - 2) Install the chime module M52003. To install the chime module, do this task: Chime Module Installation, AMM TASK 52-51-10-400-801.
 - 3) Do these steps to see if the problem is corrected:
 - a) Open the flight compartment door.
 - b) Put the flight compartment door lock switch in the AUTO position
 - c) Make sure that the electric strike is in the locked position.
 - d) Put the flight compartment door lock switch in the UNLOCK position.
 - e) Make sure that the electric strike is in the unlock position.

————— **END OF TASK** —————

806. Door does not unlock in the AUTO position after correct code has been entered. - Fault Isolation

A. Initial Evaluation

- (1) Do these steps to do an operational check of the flight compartment door AUTO Mode and keypad function.
 - (a) Close the flight compartment door.
 - (b) Make sure that the deadbolt on the flight deck door is unlocked.
 - (c) Put the flight compartment door lock switch in the AUTO position.
 - (d) Make sure that the electric strike is in the locked position.

NOTE: The Solenoid pin in the electric strike will be extended up such that you can not rotate the strike.
 - (e) Enter the access code in the keypad and press the ENT key.
 - (f) If the flight compartment door did not unlock after the programmed delay, then do the applicable Fault Isolation Procedure below.
 - (g) If the flight compartment door did unlock, then there was an intermittent fault.

EFFECTIVITY
ARO ALL

52-51 TASKS 805-806

D633W103-ARO

Page 208
Jan 05/2013



**777-200/300
FAULT ISOLATION MANUAL**

B. Fault Isolation Procedure

- (1) Close the flight compartment door.
- (2) Put the door lock switch to the AUTO position.
- (3) Make sure that the flight compartment door is locked.
- (4) Put the door lock switch in the UNLOCK position.
- (5) If the flight compartment door did not unlock, do this procedure:
 - (a) Do this task: Door does not unlock in the UNLOCK position - Fault Isolation, 52-51 TASK 805.
- (6) If the flight compartment door did unlock, then do these steps:
 - (a) Do this procedure to program a new access code on the keypad. To program the access code, do this task: Program the Access Code, AMM TASK 52-51-00-900-801.
 - (b) Enter the new access code in to the keypad and press the ENT key.
 - (c) If the flight compartment door did unlock you have corrected the problem.
 - 1) Make sure the access code is set to the correct code.
 - (d) If the flight compartment door did not unlock door then continue.
 - (e) If the amber light on the keypad came on after the correct access code was entered, do this step:
 - 1) Install a new chime module M52003.
These are the tasks:
Chime Module Removal, AMM TASK 52-51-10-000-801,
Chime Module Installation, AMM TASK 52-51-10-400-801.
 - (f) If the amber light on the keypad did not come on after the correct access code was entered, then continue.
 - (g) Install a new keypad M52004.
These are the tasks:
Keypad Removal, AMM TASK 52-51-09-000-801,
Keypad Installation, AMM TASK 52-51-09-400-801.
 - (h) If the flight compartment door unlocked with the with the door lock switch in the UNLOCK position, you have corrected the problem.
 - (i) If the flight compartment door did not unlock with the with the door lock switch in the UNLOCK position, continue.
 - (j) Install a new chime module M52003.
These are the tasks:
Chime Module Removal, AMM TASK 52-51-10-000-801,
Chime Module Installation, AMM TASK 52-51-10-400-801.
 - (k) If the flight compartment door unlocked with the with the door lock switch in the UNLOCK position, you have corrected the problem.
 - (l) If the flight compartment door did not unlock with the with the door lock switch in the UNLOCK position, continue.
 - (m) Repair the wiring between the keypad and the chime module (WDM 52-51-11).

EFFECTIVITY
ARO ALL

52-51 TASK 806

D633W103-ARO

Page 209
Jan 05/2013



777-200/300
FAULT ISOLATION MANUAL

- (n) If the flight compartment door unlocked with the with the door lock switch in the UNLOCK position, you have corrected the problem.

————— END OF TASK —————

807. Door unlocks or chime sounds in the DENY position. - Fault Isolation

A. Initial Evaluation

- (1) Do these steps to do an operational check of the flight compartment door DENY mode.
- (a) Close the flight compartment door.
 - (b) Put the chime module M52003 power switch to the NORM position.
 - (c) Put the flight compartment door lock switch in the AUTO position.
 - (d) Make sure that the electric strike is in the locked position.
NOTE: The Solenoid pin in the electric strike will be extended up such that you can not rotate the strike.
 - (e) Enter the access code in the keypad and press the ENT key.
 - (f) Put the door lock switch to the DENY position.
 - (g) If the flight compartment door unlocked or the chime sounds when the switch is put in the DENY position, then do the applicable Fault Isolation Procedure below.
 - (h) If the flight compartment door did not unlock or chime sounds with the switch in the DENY position, then there was an intermittent fault.

B. Fault Isolation Procedure

- (1) Disconnect connector DM52003 from the chime module M52003.
- (2) Put the door lock switch to the DENY position.
- (3) Do a check for continuity between pin 10 of DM52003 and structure ground.
- (4) If there is continuity between pin 10 of DM52003 and structure ground, do this step:
- (a) Install a new chime module M52003.
These are the tasks:
Chime Module Removal, AMM TASK 52-51-10-000-801,
Chime Module Installation, AMM TASK 52-51-10-400-801.
- (5) If there is not continuity between pin 10 of DM52003 and structure ground, do these steps:
- (a) Remove the flight deck door module, M52002 from the P8 panel. To remove the flight deck door module, do this task: Flight Deck Door Module Removal, AMM TASK 52-51-13-020-801.
 - (b) Disconnect connector DM52002 from the flight deck door module.
 - (c) Put the door lock switch in the DENY position.
 - (d) Check for continuity between pins 15 and 5 of the DM52002 receptacle on the flight deck door module, M52002.
 - (e) If there is not continuity between pins 15 and 5, do these steps:
 - 1) Install a new flight deck door module assembly M52002. do this task: Flight Deck Door Module Installation, AMM TASK 52-51-13-420-801
 - 2) Install the chime module M52003. To install the chime module, do this task: Chime Module Installation, AMM TASK 52-51-10-400-801.
 - (f) If there is continuity between pins 15 and 5, do these steps:

EFFECTIVITY
ARO ALL

52-51 TASKS 806-807

D633W103-ARO

Page 210
Jan 05/2013



777-200/300
FAULT ISOLATION MANUAL

- 1) Repair the wiring between pin 10 of connector DM52003 and structure ground (WDM 52-51-11).
- (g) Install the chime module M52003. To install the chime module, do this task: Chime Module Installation, AMM TASK 52-51-10-400-801.

————— **END OF TASK** —————

808. Chime does not sound when a correct code is entered on the keypad in the AUTO mode. - Fault Isolation

A. Initial Evaluation

- (1) Do these steps to do an operational check of the chime module.
 - (a) Close the flight compartment door.
 - (b) Put the chime module M52003 power switch to the NORM position.
 - (c) Put the flight compartment door lock switch in the AUTO position.
 - (d) Enter the access code in the keypad and press the ENT key.
 - (e) If the chime did not sound when the correct code is entered in the keypad with the door lock switch in the AUTO position, then do the applicable Fault Isolation Procedure below.

NOTE: The chime and keypad can be disabled for up to 30 minutes after the door lock switch is turned to the DENY position. The DENY mode can be ended by turning the door lock switch to the UNLOCK position.
 - (f) If the chime did sound with the door lock switch in the AUTO position after a correct code was entered, then there was an intermittent fault.

B. Fault Isolation Procedure

- (1) Put the door lock switch in the AUTO position.
- (2) Enter the access on the keypad and press ENT key.
- (3) If the flight compartment door unlocked, do this step:
 - (a) Install a new chime module M52003.

These are the tasks:
Chime Module Removal, AMM TASK 52-51-10-000-801,
Chime Module Installation, AMM TASK 52-51-10-400-801.
- (4) If the flight compartment door did not unlock, do this procedure:
 - (a) Do this task: Door does not unlock in the AUTO position after correct code has been entered. - Fault Isolation, 52-51 TASK 806.

————— **END OF TASK** —————

809. Flight compartment door LOCK FAIL light is on. - Fault Isolation

A. Initial Evaluation

- (1) Do these steps to do an operational check of the flight compartment door strike.
 - (a) Close the flight compartment door.
 - (b) Make sure that the deadbolt on the flight deck door is unlocked.
 - (c) Put the flight compartment door lock switch in the AUTO position.
 - (d) Check that the LOCK FAIL light is on.

EFFECTIVITY
ARO ALL

52-51 TASKS 807-809

D633W103-ARO

Page 211
Jan 05/2013



**777-200/300
FAULT ISOLATION MANUAL**

- (e) If the LOCK FAIL light is on in the AUTO mode, then do the applicable Fault Isolation Procedure below.
- (f) If the LOCK FAIL light is not on and the flight compartment door is locked, then there was an intermittent fault.

B. Fault Isolation Procedure

- (1) Close the flight compartment door.
- (2) Put the door lock switch to the AUTO position.
- (3) If the flight compartment door is not locked, do this procedure:
 - (a) Do this task: Door does not lock in the AUTO position - Fault Isolation, 52-51 TASK 804.
- (4) If the flight compartment door is locked, then do these steps:
 - (a) Remove the electric strike, M52005; but do not disconnect the electrical connectors. To remove the electric strike, do this task: Electric Strike Installation, AMM TASK 52-51-02-400-802-002.
 - (b) Disconnect electrical connector D206J (WDM 52-51-11).
 - (c) Put the door lock switch in the AUTO position.
 - (d) Check for continuity between the pin in connector D206J and structure ground.
 - (e) If there is not continuity between the pin in connector D206J and structure ground, do these steps:
 - 1) Install a new electric strike M52005. To install a new electric strike, do this task: Electric Strike Removal, AMM TASK 52-51-02-000-802-002.
 - 2) If the problem continues, repair the wiring between connector D206J and structure ground (WDM 52-51-11).
 - 3) If the flight compartment door is locked in the AUTO mode and the LOCK FAIL light is out, the problem is corrected.
 - (f) If there is continuity between the pin in connector D206J and structure ground, continue.
 - (g) Disconnect connector DM52003 from the chime module M52003. To disconnect the connector from the chime module, do this task: Chime Module Removal, AMM TASK 52-51-10-000-801.
 - (h) Check for continuity between pin 15 of connector DM52003 and the receptacle pin of connector D206J (WDM 52-51-11).
 - (i) If there is not continuity between pin 15 of connector DM52003 and the receptacle pin of connector D206J, do this step:
 - 1) Repair the wiring (WDM 52-51-11).
 - 2) If the flight compartment door is locked in the AUTO mode and the LOCK FAIL light is out, the problem is corrected.
 - (j) If there is continuity between pin 15 of connector DM52003 and the receptacle pin of connector D206J, then continue.
 - (k) Install a new chime module M52003. To install a new chime module, do this task: Chime Module Installation, AMM TASK 52-51-10-400-801.
 - (l) Install the electric strike M52005. To install the electric strike, do this task: Electric Strike Removal, AMM TASK 52-51-02-000-802-002.

————— **END OF TASK** —————

EFFECTIVITY
ARO ALL

52-51 TASK 809

D633W103-ARO

Page 212
Jan 05/2014



777-200/300
FAULT ISOLATION MANUAL

810. Flight compartment door AUTO UNLOCK light does not come on after correct access code has been entered. - Fault Isolation

A. Initial Evaluation

- (1) Do these steps to do an operational check of the flight compartment door AUTO UNLOCK light.
 - (a) Close the flight compartment door.
 - (b) Make sure that the deadbolt on the flight deck door is unlocked.
 - (c) Put the flight compartment door lock switch in the AUTO position.
 - (d) Enter the access code on the keypad and press the ENT key.
 - (e) If the AUTO UNLOCK light did not come on when the correct access code was entered, then do the applicable Fault Isolation Procedure below.
 - (f) If the AUTO UNLOCK light did come on when the correct access code was entered, then there was an intermittent fault.

B. Fault Isolation Procedure

- (1) Press the IND LTS test switch on the Master Dim and Test panel.
- (2) If the AUTO UNLOCK light does not come on, change the lightbulb.
- (3) If the AUTO UNLOCK light does come on, continue.
- (4) Disconnect connector DM52003 on the chime module M52003. To disconnect the connector from the chime module, do this task: Chime Module Removal, AMM TASK 52-51-10-000-801.
- (5) Do a check for 12V DC between pin 21 of connector DM52003 and structure ground.
- (6) If there is not 12V DC between pin 21 of connector DM52003 and structure ground, do this step.
 - (a) Repair the wiring between Pin 21 of connector DM52003 and pin 20 of connector DM52002 on the flight deck door module (WDM 52-51-11).
 - (b) If the AUTO UNLOCK light did come on when the correct access code was entered, then the problem is corrected.
- (7) If there is 12V DC between pin 21 of connector DM52003 and structure ground, do this step.
 - (a) Install a new chime module M52003.
These are the tasks:
Chime Module Removal, AMM TASK 52-51-10-000-801,
Chime Module Installation, AMM TASK 52-51-10-400-801.

————— **END OF TASK** —————

EFFECTIVITY
ARO ALL

52-51 TASK 810

D633W103-ARO

Page 213
Jan 05/2013



777-200/300
FAULT ISOLATION MANUAL

802. EICAS Message Latched by AIMS - Fault Isolation

A. Initial Evaluation

NOTE: AIMS can latch this EICAS message when it occurs. After you find the cause of the fault and correct it, it is possible that the EICAS message will continue to show.

- (1) Do not erase the EICAS message until you complete the task for the correlated maintenance message.
- (2) When this EICAS message occurs, do these steps:
 - (a) Make sure that you have the correlated maintenance message number that shows on the MAT with the EICAS message.
 - (b) Go back to the FIM Fault Code Index and find the fault code for the EICAS message.
 - (c) Find the correlated maintenance message number and the task number to the right of the fault code.
 - (d) Go to the specified task in the FIM and do the steps in the task.
 - (e) After you do the actions in the task to correct the fault, do these steps:
 - 1) Look at the MAT for the EICAS message.
 - 2) If the MAT shows LATCHED for the EICAS message, then you must erase it from the EICAS status display. To erase it, do this task: Erasing a EICAS Status Message Latched by AIMS, AMM TASK 31-61-00-800-802.

————— END OF TASK —————

EFFECTIVITY
ARO ALL

52-98 TASK 802

D633W103-ARO

Page 201
Jan 05/2013