

CHAPTER

45

**CENTRAL
MAINTENANCE
SYSTEM**



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

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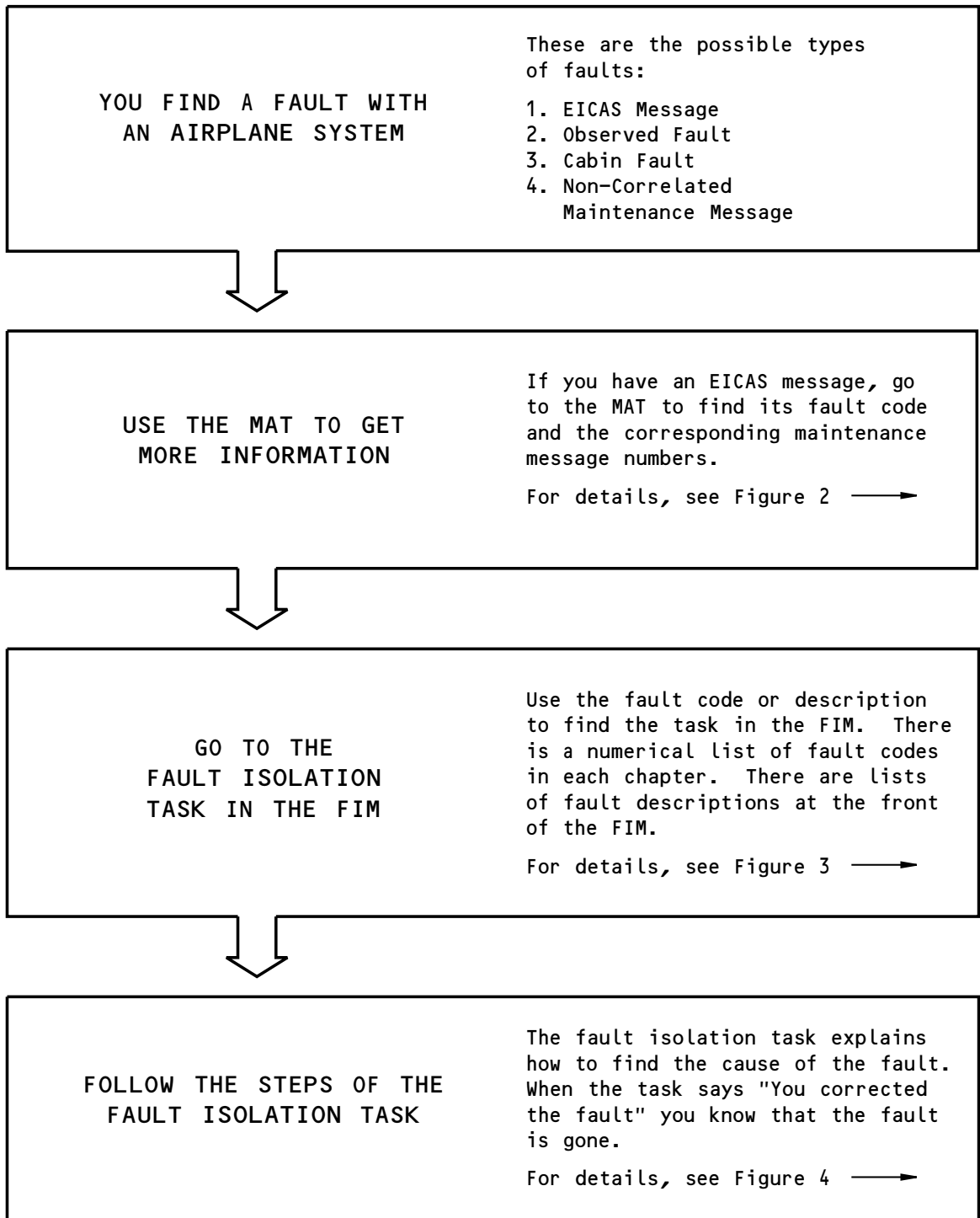
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D 298.86	BLANK							
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R 207	Sep 05/2017							
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E84424 S0000132469_V1

Basic Fault Isolation Process
Figure 1

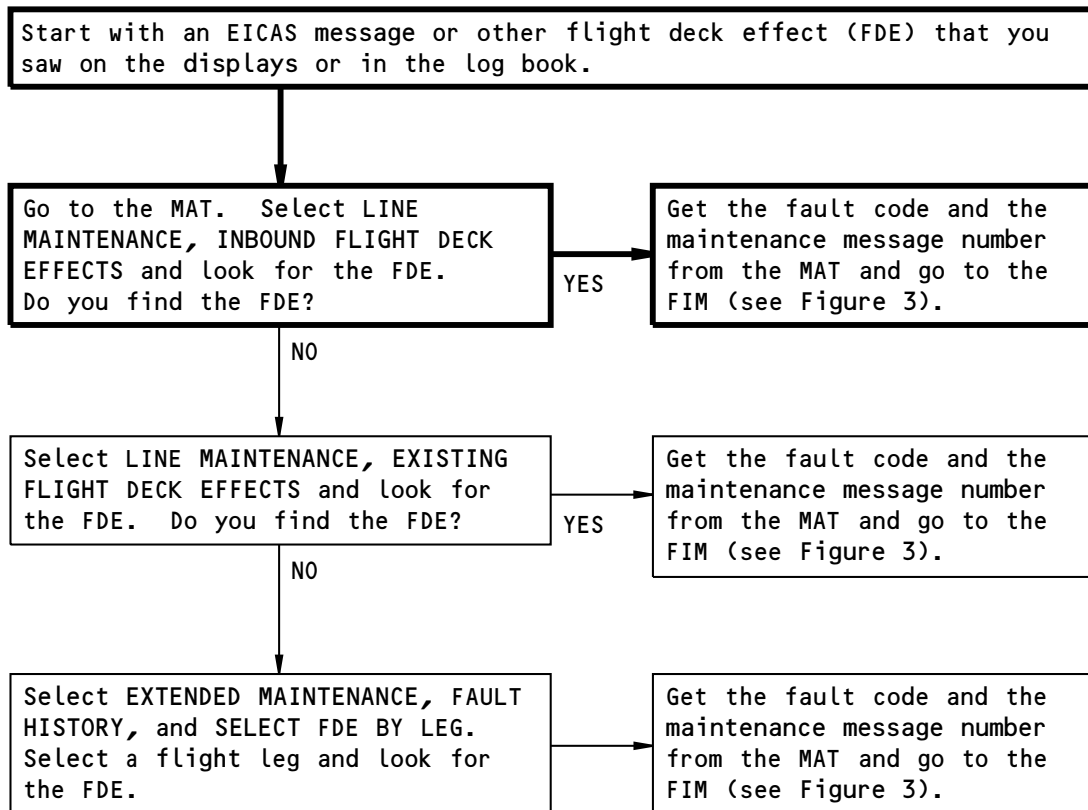
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NOTE: The bold lines show the most common path.

E84425 S0000132475_V1

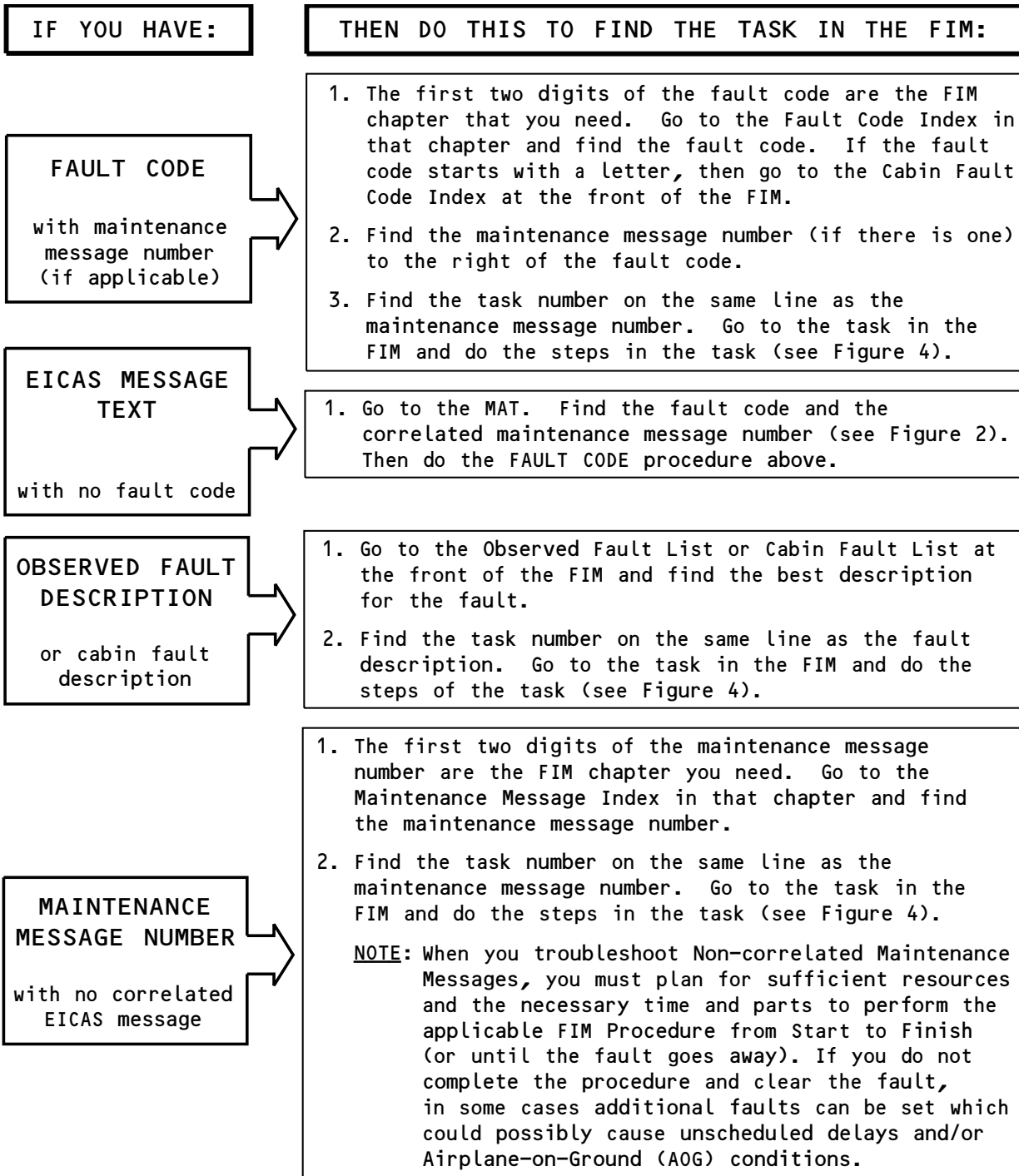
Getting Fault Information from the MAT
Figure 2

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E84427 S0000132476_V2

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

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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

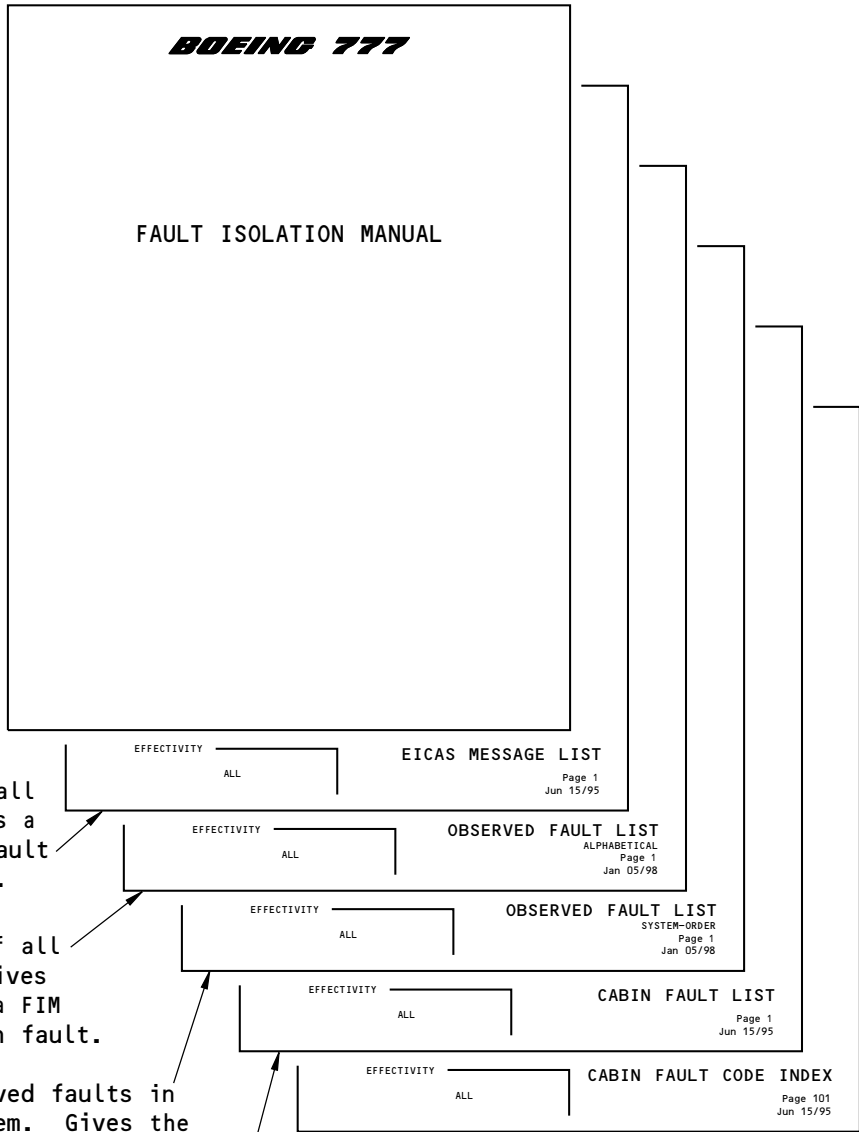
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Alphabetical list of all EICAS messages. Gives a description and the fault code for each message.

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.

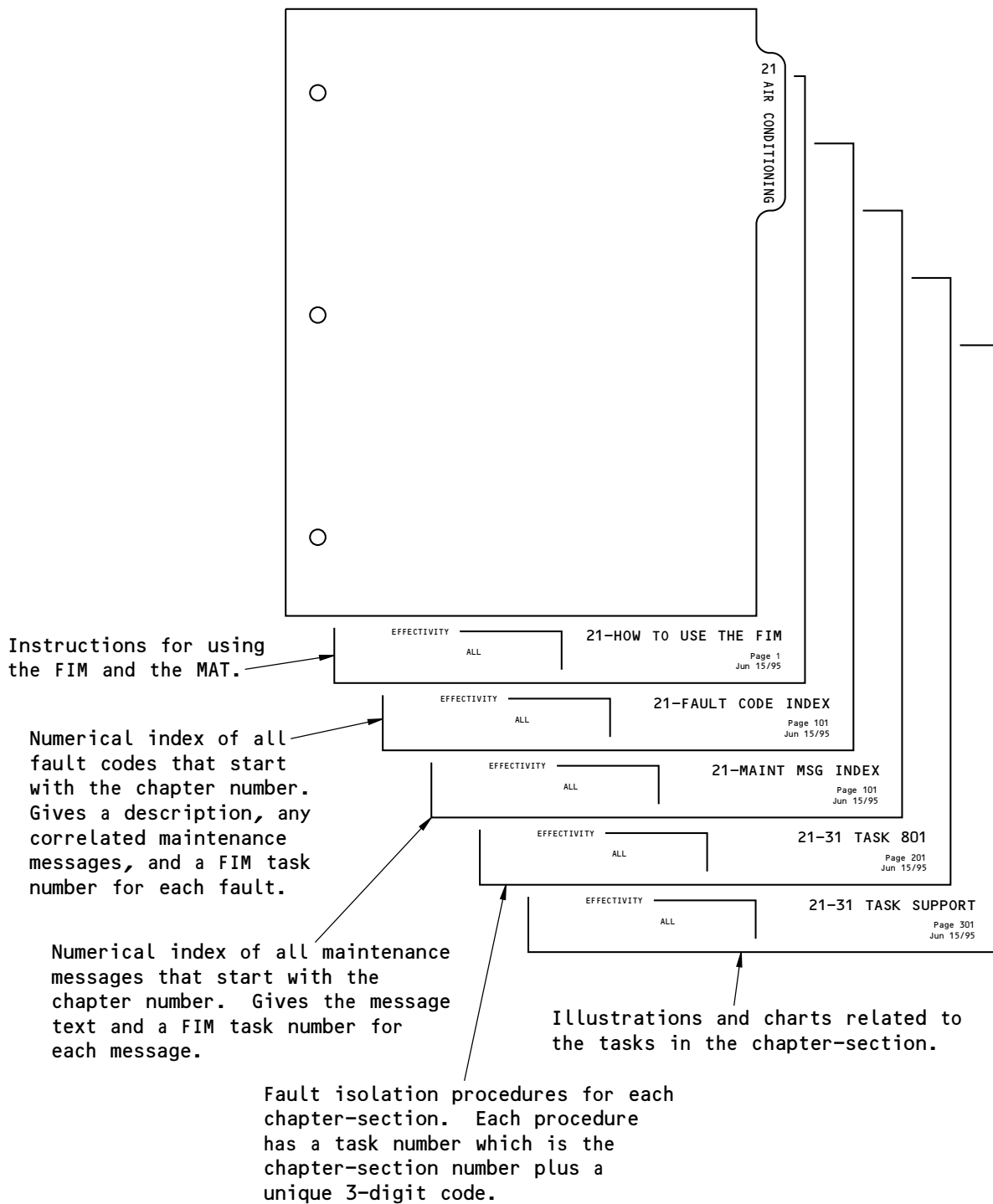
F39750 S0000132478_V1

**Subjects at Front of FIM
Figure 5**

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F39837 S0000132479_V1

**Subjects in Each FIM Chapter
 Figure 6**

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FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
451 101 00	Maintenance Access Terminal (MAT): Connection Problems.		45-11 TASK 831
451 511 00	MAT error message: MTF cannot connect to CMCF and no more sessions are available.		45-10 TASK B30
451 512 00	MAT error message: MTF cannot connect to AMCF and no more sessions are available.		45-10 TASK B31
451 513 00	MAT error message: MTF cannot connect and CMCF does not give a reply.		45-10 TASK B32
451 514 00	MAT error message: MTF cannot connect and ACMF does not give a reply.		45-10 TASK B33
451 521 00	MAT error message: Session stopped with 3 protocol errors in CMCF.		45-10 TASK B34
451 522 00	MAT error message: Session stopped with 3 protocol errors in ACMF.		45-10 TASK B33
451 523 00	MAT error message: Session stopped with CMCF disconnected.		45-10 TASK B34
451 524 00	MAT error message: Session stopped with ACMF disconnected.		45-10 TASK B33
451 525 00	MAT error message: Session stopped with CMCF communication or software error.		45-10 TASK B34
451 526 00	MAT error message: Session stopped with ACMF communication or software error.		45-10 TASK B33
451 534 00	MAT error message: DISK DRIVE or HARD DRIVE error message.		45-10 TASK B34
451 535 00	MAT error message: DISK DRIVE error message.		45-10 TASK B39
451 811 00	MAT error message: LRU INACTIVE/ FAULTED shows on MAT system configuration display.		45-10 TASK B36
451 813 00	MAT error message: no signal came back from destination LRU (during software installation/data load).		45-10 TASK B37
451 814 00	MAT error message: LRU DOES NOT GIVE A REPLY shows on MAT system configuration display.		45-10 TASK B36
451 815 00	MAT display: shows "The request is operating ..." for more than 20 seconds.		45-10 TASK B35
451 816 00	MAT display: does not show Hard Drive selection on the Data Load display with hard drive installed on airplane.		45-10 TASK B40
451 820 00	MAT display: ONBOARD MAINTENANCE does not show on the initial menu.		45-10 TASK B42

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FAULT CODE	FAULT DESCRIPTION	MAINT MSG	GO TO FIM TASK
451 821 00	MAT display: CONDITION MONITORING does not show on the initial menu.		45-10 TASK B42
451 825 00	MAT display: shows "AIMS Connection Failed 10 Times".		45-11 TASK 830
451 831 00	EICAS message: TEXT NOT AVAILABLE shows instead of the EICAS message text on the CMCF display or reports.		45-10 TASK B51

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-10021	AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3114-BCG-00W-16; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; CMCF in Left AIMS cabinet has an internal software fault. AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; CMCF in Left AIMS has an internal software fault.	45-10 TASK A30
45-10022	CMCF in Right AIMS has an internal software fault.	45-10 TASK A31
45-10050	CMCF in Left AIMS and in Right AIMS have incorrect software configuration.	45-10 TASK A34
45-10060	Central Maintenance Computing Function cannot compute ground test results. CMCF received too many fault reports..	45-10 TASK B28
45-10071	CMCF in Left AIMS has a database fault.	45-10 TASK B29
45-10072	CMCF in Right AIMS has a database fault.	45-10 TASK B29
45-12001	CMCF in Left AIMS has no input from ACMF in Left AIMS on the AIMS Backplane.	45-10 TASK A35
45-12002	CMCF in Right AIMS has no input from ACMF in Left AIMS on AIMS Intercabinet Buses (1) and (4).	45-10 TASK A43
45-12003	CMCF in Left AIMS has no input from ACMF in Right AIMS on AIMS Intercabinet Buses (3) and (4).	45-10 TASK B53
45-12004	CMCF in Right AIMS has no input from ACMF in Right AIMS on the AIMS Backplane.	45-10 TASK A36
45-12011	CMCF in Left AIMS has no input from CMCF in Left AIMS on the AIMS Backplane.	45-10 TASK A37
45-12012	CMCF in Left AIMS has no input from CMCF in Right AIMS on AIMS Intercabinet Buses (3) and (4).	45-10 TASK A44
45-12013	CMCF in Right AIMS has no input from CMCF in Left AIMS on AIMS Intercabinet Buses (3) and (4).	45-10 TASK A45
45-12014	CMCF in Right AIMS has no input from CMCF in Right AIMS on the AIMS Backplane.	45-10 TASK A38
45-12021	CMCF in Left AIMS has no input from Left AIMS on the AIMS Backplane.	45-10 TASK A41
45-12022	CMCF in Right AIMS has no input from Left AIMS on AIMS Intercabinet Buses (1) and (3).	45-10 TASK A46
45-12023	CMCF in Left AIMS has no input from Right AIMS on AIMS Intercabinet Buses (1) and (3).	45-10 TASK A47
45-12024	CMCF in Right AIMS has no input from Right AIMS on the AIMS Backplane.	45-10 TASK A42
45-12031	CMCF in Left AIMS has no input from DCGF-1 in Left AIMS on the AIMS Backplane.	45-10 TASK A39

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-12032	CMCF in Right AIMS has no input from DCGF-1 in Left AIMS on AIMS Intrcab Bus (3) and System A629 Buses (c1), (c2).	45-10 TASK A48
45-12033	CMCF in Left AIMS has no input from DCGF-1 in Right AIMS on AIMS Intrcab Bus (3) and System A629 Buses (c1), (c2).	45-10 TASK A49
45-12034	CMCF in Right AIMS has no input from DCGF-1 in Right AIMS on the AIMS Backplane.	45-10 TASK A40
45-12041	CMCF in Left AIMS has no input from DCGF-2 in Left AIMS on the AIMS Backplane.	45-10 TASK A35
45-12042	CMCF in Right AIMS has no input from DCGF-2 in Left AIMS on AIMS Intrcab Bus (3) and System A629 Buses (c1), (c2).	45-10 TASK A50
45-12043	CMCF in Left AIMS has no input from DCGF-2 in Right AIMS on AIMS Intrcab Bus (3) and System A629 Buses (c1), (c2).	45-10 TASK A51
45-12044	CMCF in Right AIMS has no input from DCGF-2 in Right AIMS on the AIMS Backplane.	45-10 TASK A36
45-12051	CMCF in Left AIMS has no input from DCMF in Left AIMS on the AIMS Backplane.	45-10 TASK A37
45-12052	CMCF in Right AIMS has no input from DCMF in Left AIMS on AIMS Intercabinet Buses (3) and (4).	45-10 TASK A45
45-12053	CMCF in Left AIMS has no input from DCMF in Right AIMS on AIMS Intercabinet Buses (3) and (4).	45-10 TASK A44
45-12054	CMCF in Right AIMS has no input from DCMF in Right AIMS on the AIMS Backplane.	45-10 TASK A38
45-12061	CMCF in Left AIMS has no input from DFDAF in Left AIMS on the AIMS Backplane.	45-10 TASK A37
45-12062	CMCF in Right AIMS has no input from DFDAF in Left AIMS on AIMS Intercabinet Buses (1), (2), and (3).	45-10 TASK A52
45-12063	CMCF in Left AIMS has no input from DFDAF in Right AIMS on AIMS Intercabinet Buses (1), (2), and (3).	45-10 TASK A53
45-12064	CMCF in Right AIMS has no input from DFDAF in Right AIMS on the AIMS Backplane.	45-10 TASK A38
45-12071	CMCF in Left AIMS has no input from Displays-1 in Left AIMS on the AIMS Backplane.	45-10 TASK A39
45-12072	CMCF in Right AIMS has no input from Displays-1 in Left AIMS on AIMS Intrcab Bus (3) and System A629 Buses (c1), (c2).	45-10 TASK A48
45-12073	CMCF in Left AIMS has no input from Displays-2 in Left AIMS on the AIMS Backplane.	45-10 TASK A39
45-12074	CMCF in Right AIMS has no input from Displays-2 in Left AIMS on AIMS Intrcab Bus (3) and System A629 Buses (c1), (c2).	45-10 TASK A48
45-12081	CMCF in Left AIMS has no input from Displays-1 in Right AIMS on AIMS Intrcab Bus (3) and System A629 Buses (c1), (c2).	45-10 TASK A49

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45-12082	CMCF in Right AIMS has no input from Displays-1 in Right AIMS on the AIMS Backplane.	45-10 TASK A40
45-12083	CMCF in Left AIMS has no input from Displays-2 in Right AIMS on AIMS Intrcab A629 Bus (3) and System A629 Buses (c1), (c2).	45-10 TASK A49
45-12084	CMCF in Right AIMS has no input from Displays-2 in Right AIMS on the AIMS Backplane.	45-10 TASK A40
45-12091	CMCF in Left AIMS has no input from FDCF in Left AIMS on the AIMS Backplane.	45-10 TASK A37
45-12092	CMCF in Right AIMS has no input from FDCF in Left AIMS on AIMS Intercabinet Buses (1) and (2).	45-10 TASK A54
45-12093	CMCF in Left AIMS has no input from FDCF in Right AIMS on AIMS Intercabinet Buses (1) and (2).	45-10 TASK A55
45-12094	CMCF in Right AIMS has no input from FDCF in Right AIMS on the AIMS Backplane.	45-10 TASK A38
45-12101	CMCF in Left AIMS has no input from FMCF in Left AIMS on the AIMS Backplane.	45-10 TASK A35
45-12102	CMCF in Right AIMS has no input from FMCF in Left AIMS on AIMS Intercabinet Buses (1) and (2).	45-10 TASK A57
45-12103	CMCF in Left AIMS has no input from FMCF in Right AIMS on AIMS Intercabinet Buses (3) and (4).	45-10 TASK A58
45-12104	CMCF in Right AIMS has no input from FMCF in Right AIMS on the AIMS Backplane.	45-10 TASK A36
45-12111	CMCF in Left AIMS has no input from FMCF/Nav in Left AIMS on the AIMS Backplane.	45-10 TASK A35
45-12112	CMCF in Right AIMS has no input from FMCF/Nav in Left AIMS on AIMS Intercabinet Buses (3) and (4).	45-10 TASK A56
45-12113	CMCF in Left AIMS has no input from FMCF/Nav in Right AIMS on AIMS Intercabinet Buses (1) and (2).	45-10 TASK A59
45-12114	CMCF in Right AIMS has no input from FMCF/Nav in Right AIMS on the AIMS Backplane.	45-10 TASK A36
45-12121	CMCF in Left AIMS has no input from TCMF in Left AIMS on the AIMS Backplane.	45-10 TASK A35
45-12122	CMCF in Right AIMS has no input from TCMF in Left AIMS on AIMS Intercabinet Buses (3) and (4).	45-10 TASK A56
45-12123	CMCF in Left AIMS has no input from TCMF in Right AIMS on AIMS Intercabinet Buses (1) and (2).	45-10 TASK A59
45-12124	CMCF in Right AIMS has no input from TCMF in Right AIMS on the AIMS Backplane.	45-10 TASK A36
45-15501	Central Maintenance Computing Function cannot connect to ACMF in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A61

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-15502	Central Maintenance Computing Function can not connect to ACMF in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A64
45-15503	Central Maintenance Computing Function cannot connect to CMCF in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A62
45-15504	Central Maintenance Computing Function cannot connect to CMCF in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A63
45-15505	Central Maintenance Computing Function cannot connect to CPM/Comm(M001) in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A62
45-15506	Central Maintenance Computing Function cannot connect to CPM/Comm(M001) in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A63
45-15507	Central Maintenance Computing Function cannot connect to DCGF-1 in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A65
45-15508	Central Maintenance Computing Function cannot connect to DCGF-1 in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A66
45-15509	Central Maintenance Computing Function cannot connect to DCGF-2 in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A67
45-15510	Central Maintenance Computing Function cannot connect to DCGF-2 in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A68
45-15511	Central Maintenance Computing Function cannot connect to DCMF in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A62
45-15512	Central Maintenance Computing Function cannot connect to DCMF in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A63
45-15513	Central Maintenance Computing Function cannot connect to DFDAF in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A62
45-15514	Central Maintenance Computing Function cannot connect to DFDAF in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A63
45-15515	Central Maintenance Computing Function cannot connect to Displays-1 in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A65

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-15516	Central Maintenance Computing Function cannot connect to Displays-1 in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A66
45-15517	Central Maintenance Computing Function cannot connect to Displays-2 in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A65
45-15518	Central Maintenance Computing Function cannot connect to Displays-2 in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A66
45-15519	Central Maintenance Computing Function cannot connect to FDCF in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A62
45-15520	Central Maintenance Computing Function cannot connect to FDCF in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A63
45-15521	Central Maintenance Computing Function cannot connect to FMCF in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A61
45-15522	Central Maintenance Computing Function cannot connect to FMCF in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A64
45-15523	Central Maintenance Computing Function cannot connect to FMCF/Nav in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A61
45-15524	Central Maintenance Computing Function cannot connect to FMCF/Nav in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A64
45-15525	Central Maintenance Computing Function cannot connect to TMCF in Left AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A61
45-15526	Central Maintenance Computing Function cannot connect to TMCF in Right AIMS. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A64
45-15531	Central Maintenance Computing Function cannot connect to Autopilot Flight Director Computer (Left). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15532	Central Maintenance Computing Function cannot connect to Autopilot Flight Director Computer (Center). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15533	Central Maintenance Computing Function cannot connect to Autopilot Flight Director Computer (Right). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-15534	Central Maintenance Computing Function cannot connect to Bus Power Control Unit (BPCU). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15535	Central Maintenance Computing Function cannot connect to Generator Control Unit (L). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15536	Central Maintenance Computing Function cannot connect to Generator Control Unit (R). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15537	Central Maintenance Computing Function cannot connect to Auxiliary Generator Control Unit (AGCU). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15538	Central Maintenance Computing Function cannot connect to Backup Converter. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15541	Central Maintenance Computing Function cannot connect to PSEU 1 (L1). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15542	Central Maintenance Computing Function cannot connect to PSEU 1 (R1). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15543	Central Maintenance Computing Function cannot connect to PSEU 2 (L2). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15544	Central Maintenance Computing Function cannot connect to PSEU 2 (R2). LRU signals are invalid or LRU does not give a reply.	45-10 TASK A69
45-15550	Central Maintenance Computing Function cannot connect to FSEU 1 Control Channel. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A60
45-15551	Central Maintenance Computing Function cannot connect to FSEU 1 Monitor Channel. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A60
45-15552	Central Maintenance Computing Function cannot connect to FSEU 2 Control Channel. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A60
45-15553	Central Maintenance Computing Function cannot connect to FSEU 2 Monitor Channel. LRU signals are invalid or LRU does not give a reply.	45-10 TASK A60
45-15581	Central Maintenance Computing Function cannot connect to ONS. LRU does not give a reply..	45-11 TASK 831

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-17100	<p>AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; CMCF cannot transmit on Flight Controls ARINC 629 Bus (center) in this flight condition. Air Data Modules (Center Pitot and Center Static) cannot perform ground test, system configuration, data load, or shop fault functions.</p> <p>AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; CMCF is designed to not transmit on Flight Controls ARINC 629 Bus (Center) in the current flight condition. As a result, ADM-C, PSA-C, PFC-C, and SAARU cannot perform ground test, system configuration, data load, or shop fault functions.</p> <p>AIMS-2, CMCF LDI 3114-BCG-00W-16; CMCF is designed to not transmit on Flight Controls ARINC 629 Bus (Center) in the current flight condition. As a result, ADM-C, PSA-C, PFC-C, and SAARU cannot perform ground test, system configuration, data load, or shop fault functions..</p>	45-10 TASK B27
45-17200	CMCF cannot transmit on Flight Controls ARINC 629 Bus (center) in this flight condition. Power Supply Assembly (center) cannot perform system configuration or shop fault functions.	45-10 TASK B27
45-18881	CMCF in Left AIMS has no output on the AIMS Backplane.	45-10 TASK A70
45-18882	CMCF in Right AIMS has no output on the AIMS Backplane.	45-10 TASK A71
45-19500	Central Maintenance Computing Function has no input from Warning Electronic Unit (left channel 1).	45-10 TASK A87
45-19501	Central Maintenance Computing Function has no input from Warning Electronic Unit (left channel 2).	45-10 TASK A87
45-19502	Central Maintenance Computing Function has no input from Warning Electronic Unit (right channel 1).	45-10 TASK A87
45-19503	Central Maintenance Computing Function has no input from Warning Electronic Unit (right channel 2).	45-10 TASK A87
45-19504	Central Maintenance Computing Function has no input from Window Heat Control Unit (L Fwd & R Side).	45-10 TASK A84
45-19505	Central Maintenance Computing Function has no input from Window Heat Control Unit (R Fwd & L Side).	45-10 TASK A84
45-19506	Central Maintenance Computing Function has no input from Weight-On-Wheels Card (left) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19507	Central Maintenance Computing Function has no input from Weight-On-Wheels Card (left) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19508	Central Maintenance Computing Function has no input from Weight-On-Wheels Card (right) on System ARINC 629 Bus (left).	45-10 TASK A72

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19509	Central Maintenance Computing Function has no input from Weight-On-Wheels Card (right) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19510	AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; Central Maintenance Computing Function has no input from WXR Transceiver (left). AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3114-BCG-00W-16; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; Central Maintenance Computing Function has no input from WXR Transceiver or Radar Processor (Left).	45-10 TASK A85
45-19511	AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; Central Maintenance Computing Function has no input from WXR Transceiver (right). AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3114-BCG-00W-16; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; Central Maintenance Computing Function has no input from WXR Transceiver or Radar Processor (Right).	45-10 TASK A85
45-19531	Central Maintenance Computing Function has no input from Control Display Unit (Center) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19532	Central Maintenance Computing Function has no input from Control Display Unit (Left) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19533	Central Maintenance Computing Function has no input from Control Display Unit (Right) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19571	Central Maintenance Computing Function has no input from Primary Flight Computer (center) lane 1.	45-10 TASK A90
45-19572	Central Maintenance Computing Function has no input from Primary Flight Computer (center) lane 2.	45-10 TASK A90
45-19573	Central Maintenance Computing Function has no input from Primary Flight Computer (center) lane 3.	45-10 TASK A90
45-19574	Central Maintenance Computing Function has no input from Primary Flight Computer (left) lane 1.	45-10 TASK A90
45-19575	Central Maintenance Computing Function has no input from Primary Flight Computer (left) lane 2.	45-10 TASK A90
45-19576	Central Maintenance Computing Function has no input from Primary Flight Computer (left) lane 3.	45-10 TASK A90
45-19577	Central Maintenance Computing Function has no input from Primary Flight Computer (right) lane 1.	45-10 TASK A90

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19578	Central Maintenance Computing Function has no input from Primary Flight Computer (right) lane 2.	45-10 TASK A90
45-19579	Central Maintenance Computing Function has no input from Primary Flight Computer (right) lane 3.	45-10 TASK A90
45-19589	Central Maintenance Computing Function has no input from Integrated Standby Flight Display.	45-10 TASK B46
45-19590	Central Maintenance Computing Function cannot connect to Integrated Standby Flight Display. LRU does not give a reply.	45-10 TASK B46
45-19592	Central Maintenance Computing Function cannot connect to CHS Master Control Panel (aft). LRU does not give a reply.	45-10 TASK B48
45-19593	Central Maintenance Computing Function cannot connect to CHS Master Control Panel (fwd). LRU does not give a reply.	45-10 TASK B48
45-19598	Central Maintenance Computing Function can not connect to ACMF in Right AIMS. LRU does not give a reply..	45-10 TASK B02
45-19600	Central Maintenance Computing Function cannot connect to ACIPS Control Card (center). LRU does not give a reply..	45-10 TASK B11
45-19601	Central Maintenance Computing Function cannot connect to ACIPS Control Card (left). LRU does not give a reply..	45-10 TASK B11
45-19602	Central Maintenance Computing Function cannot connect to ACIPS Control Card (right). LRU does not give a reply..	45-10 TASK B11
45-19603	Central Maintenance Computing Function cannot connect to ACMF in Left AIMS. LRU does not give a reply..	45-10 TASK B01
45-19604	Central Maintenance Computing Function cannot connect to ADF Receiver (left). LRU does not give a reply..	45-10 TASK B07
45-19605	Central Maintenance Computing Function cannot connect to ADF Receiver (right). LRU does not give a reply..	45-10 TASK B08
45-19612	Central Maintenance Computing Function cannot connect to ATC/Mode S Transponder (left). LRU does not give a reply..	45-10 TASK B07
45-19613	Central Maintenance Computing Function cannot connect to ATC/Mode S Transponder (right). LRU does not give a reply..	45-10 TASK B08
45-19615	Central Maintenance Computing Function cannot connect to Air Data Module (Center Pitot). LRU does not give a reply..	45-10 TASK B20
45-19617	Central Maintenance Computing Function cannot connect to Air Data Module (Left Pitot). LRU does not give a reply..	45-10 TASK B21
45-19619	Central Maintenance Computing Function cannot connect to Air Data Module (Right Pitot). LRU does not give a reply..	45-10 TASK B22
45-19621	Central Maintenance Computing Function cannot connect to Air Supply Cabin Pressure Controller (L). LRU does not give a reply..	45-10 TASK B25
45-19622	Central Maintenance Computing Function cannot connect to Air Supply Cabin Pressure Controller (R). LRU does not give a reply..	45-10 TASK B25

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19623	Central Maintenance Computing Function cannot connect to Audio Management Unit. LRU does not give a reply..	45-10 TASK B25
45-19624	Central Maintenance Computing Function cannot connect to Autopilot Flight Director Computer (Center). LRU does not give a reply..	45-10 TASK B25
45-19625	Central Maintenance Computing Function cannot connect to Autopilot Flight Director Computer (Left). LRU does not give a reply..	45-10 TASK B25
45-19626	Central Maintenance Computing Function cannot connect to Autopilot Flight Director Computer (Right). LRU does not give a reply..	45-10 TASK B25
45-19627	Central Maintenance Computing Function cannot connect to Auxiliary Generator Control Unit (AGCU). LRU does not give a reply..	45-10 TASK B25
45-19628	Central Maintenance Computing Function cannot connect to Brake System Control Unit. LRU does not give a reply..	45-10 TASK B25
45-19629	Central Maintenance Computing Function cannot connect to Brake Temperature Monitor Unit. LRU does not give a reply..	45-10 TASK B25
45-19630	Central Maintenance Computing Function cannot connect to Bus Power Control Unit (BPCU). LRU does not give a reply..	45-10 TASK B25
45-19633	Central Maintenance Computing Function cannot connect to CPM/Comm(M001) in Left AIMS. LRU does not give a reply..	45-10 TASK B05
45-19634	Central Maintenance Computing Function cannot connect to CPM/Comm(M001) in Right AIMS. LRU does not give a reply..	45-10 TASK B06
45-19637	Central Maintenance Computing Function cannot connect to Cabin Temperature Controller (L Chan1). LRU does not give a reply..	45-10 TASK B25
45-19638	Central Maintenance Computing Function cannot connect to Cabin Temperature Controller (L Chan2). LRU does not give a reply..	45-10 TASK B25
45-19639	Central Maintenance Computing Function cannot connect to Cabin Temperature Controller (R Chan1). LRU does not give a reply..	45-10 TASK B25
45-19640	Central Maintenance Computing Function cannot connect to Cabin Temperature Controller (R Chan2). LRU does not give a reply..	45-10 TASK B25
45-19641	Central Maintenance Computing Function cannot connect to Captain Side Display. LRU does not give a reply..	45-10 TASK B26
45-19642	Central Maintenance Computing Function cannot connect to Cargo Smoke Detector Ch 1 (lwr aft). LRU does not give a reply..	45-10 TASK B13

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19643	Central Maintenance Computing Function cannot connect to Cargo Smoke Detector Ch 1 (lwr fwd). LRU does not give a reply..	45-10 TASK B13
45-19644	Central Maintenance Computing Function cannot connect to Cargo Smoke Detector Ch 2 (lwr aft). LRU does not give a reply..	45-10 TASK B13
45-19645	Central Maintenance Computing Function cannot connect to Cargo Smoke Detector Ch 2 (lwr fwd). LRU does not give a reply..	45-10 TASK B13
45-19646	Central Maintenance Computing Function cannot connect to Control Display Unit (C). LRU does not give a reply..	45-10 TASK B25
45-19647	Central Maintenance Computing Function cannot connect to Control Display Unit (L). LRU does not give a reply..	45-10 TASK B25
45-19648	Central Maintenance Computing Function cannot connect to Control Display Unit (R). LRU does not give a reply..	45-10 TASK B25
45-19649	Central Maintenance Computing Function cannot connect to Converter. LRU does not give a reply..	45-10 TASK B25
45-19654	Central Maintenance Computing Function cannot connect to DCMF in Left AIMS. LRU does not give a reply..	45-10 TASK B01
45-19655	Central Maintenance Computing Function cannot connect to DCMF in Right AIMS. LRU does not give a reply..	45-10 TASK B02
45-19656	Central Maintenance Computing Function cannot connect to DFDAF in Left AIMS. LRU does not give a reply..	45-10 TASK B01
45-19657	Central Maintenance Computing Function cannot connect to DFDAF in Right AIMS. LRU does not give a reply..	45-10 TASK B02
45-19661	Central Maintenance Computing Function cannot connect to DME Interrogator (left). LRU does not give a reply..	45-10 TASK B07
45-19662	Central Maintenance Computing Function cannot connect to DME Interrogator (right). LRU does not give a reply..	45-10 TASK B08
45-19663	Central Maintenance Computing Function cannot connect to Displays-1 in Left AIMS. LRU does not give a reply..	45-10 TASK B01
45-19664	Central Maintenance Computing Function cannot connect to Displays-1 in Right AIMS. LRU does not give a reply..	45-10 TASK B02
45-19665	Central Maintenance Computing Function cannot connect to Displays-2 in Left AIMS. LRU does not give a reply..	45-10 TASK B01
45-19666	Central Maintenance Computing Function cannot connect to Displays-2 in Right AIMS. LRU does not give a reply..	45-10 TASK B02
45-19667	Central Maintenance Computing Function cannot connect to ECSMC (left). LRU does not give a reply..	45-10 TASK B11
45-19668	Central Maintenance Computing Function cannot connect to ECSMC (right). LRU does not give a reply..	45-10 TASK B11

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19669	Central Maintenance Computing Function cannot connect to ELMS P110 Electronics unit. LRU does not give a reply..	45-10 TASK B24
45-19670	Central Maintenance Computing Function cannot connect to ELMS P210 Electronics unit. LRU does not give a reply..	45-10 TASK B24
45-19671	Central Maintenance Computing Function cannot connect to ELMS P310 Electronics Unit. LRU does not give a reply..	45-10 TASK B24
45-19672	Central Maintenance Computing Function cannot connect to Electronic ENG Control (FADEC) (L Eng,ch A). LRU does not give a reply..	45-10 TASK B15
45-19673	Central Maintenance Computing Function cannot connect to Electronic ENG Control (FADEC) (L Eng,ch B). LRU does not give a reply..	45-10 TASK B15
45-19674	Central Maintenance Computing Function cannot connect to Electronic ENG Control (FADEC) (R Eng,ch A). LRU does not give a reply..	45-10 TASK B15
45-19675	Central Maintenance Computing Function cannot connect to Electronic ENG Control (FADEC) (R Eng,ch B). LRU does not give a reply..	45-10 TASK B15
45-19694	Central Maintenance Computing Function cannot connect to FSEU 1. LRU does not give a reply..	45-10 TASK B24
45-19696	Central Maintenance Computing Function cannot connect to FSEU 2. LRU does not give a reply..	45-10 TASK B24
45-19698	Central Maintenance Computing Function cannot connect to First Officer Side Display. LRU does not give a reply..	45-10 TASK B26
45-19700	Central Maintenance Computing Function cannot connect to GPS Sensor Unit (left). LRU does not give a reply..	45-10 TASK B07
45-19701	Central Maintenance Computing Function cannot connect to GPS Sensor Unit (right). LRU does not give a reply..	45-10 TASK B08
45-19702	Central Maintenance Computing Function cannot connect to Generator Control Unit (L). LRU does not give a reply..	45-10 TASK B25
45-19703	Central Maintenance Computing Function cannot connect to Generator Control Unit (R). LRU does not give a reply..	45-10 TASK B25
45-19704	Central Maintenance Computing Function cannot connect to Ground Proximity Warning Computer. LRU does not give a reply..	45-10 TASK B09
45-19705	Central Maintenance Computing Function cannot connect to HF Communication Transceiver (left). LRU does not give a reply..	45-10 TASK B07
45-19706	Central Maintenance Computing Function cannot connect to HF Communication Transceiver (right). LRU does not give a reply..	45-10 TASK B08

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45-19707	Central Maintenance Computing Function cannot connect to Hydraulic Interface Module (HYDIM)(CL). LRU does not give a reply..	45-10 TASK B11
45-19708	Central Maintenance Computing Function cannot connect to Hydraulic Interface Module (HYDIM)(CR). LRU does not give a reply..	45-10 TASK B11
45-19709	Central Maintenance Computing Function cannot connect to Hydraulic Interface Module (HYDIM)(L). LRU does not give a reply..	45-10 TASK B11
45-19710	Central Maintenance Computing Function cannot connect to Hydraulic Interface Module (HYDIM)(R). LRU does not give a reply..	45-10 TASK B11
45-19711	Central Maintenance Computing Function cannot connect to ILS Receiver (center). LRU does not give a reply..	45-10 TASK B09
45-19712	Central Maintenance Computing Function cannot connect to ILS Receiver (left). LRU does not give a reply..	45-10 TASK B07
45-19713	Central Maintenance Computing Function cannot connect to ILS Receiver (right). LRU does not give a reply..	45-10 TASK B08
45-19715	Central Maintenance Computing Function cannot connect to Maintenance Access Terminal Display. LRU does not give a reply..	45-10 TASK B26
45-19716	Central Maintenance Computing Function cannot connect to Overhead Panel Bus Controller (L). LRU does not give a reply..	45-10 TASK B25
45-19717	Central Maintenance Computing Function cannot connect to Overhead Panel Bus Controller (R). LRU does not give a reply..	45-10 TASK B25
45-19718	Central Maintenance Computing Function cannot connect to PSEU 1 (L1). LRU does not give a reply..	45-10 TASK B25
45-19719	Central Maintenance Computing Function cannot connect to PSEU 1 (R1). LRU does not give a reply..	45-10 TASK B25
45-19720	Central Maintenance Computing Function cannot connect to PSEU 2 (L2). LRU does not give a reply..	45-10 TASK B25
45-19721	Central Maintenance Computing Function cannot connect to PSEU 2 (R2). LRU does not give a reply..	45-10 TASK B25
45-19726	Central Maintenance Computing Function cannot complete this test with Primary Flight Computer (center). Communications has failed.	45-10 TASK B20
45-19727	Central Maintenance Computing Function cannot complete this test with Primary Flight Computer (left). Communications has failed.	45-10 TASK B21
45-19728	Central Maintenance Computing Function cannot complete this test Primary Flight Computer (right). Communications has failed.	45-10 TASK B22

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19729	Central Maintenance Computing Function cannot connect to Printer. LRU does not give a reply..	45-10 TASK B07
45-19730	Central Maintenance Computing Function cannot connect to Radio Altimeter Transceiver (center). LRU does not give a reply..	45-10 TASK B09
45-19731	Central Maintenance Computing Function cannot connect to Radio Altimeter Transceiver (left). LRU does not give a reply..	45-10 TASK B07
45-19732	Central Maintenance Computing Function cannot connect to Radio Altimeter Transceiver (right). LRU does not give a reply..	45-10 TASK B08
45-19736	Central Maintenance Computing Function cannot connect to Satellite Data Unit (left). LRU does not give a reply..	45-10 TASK B07
45-19737	Central Maintenance Computing Function cannot connect to Satellite Data Unit (right). LRU does not give a reply..	45-10 TASK B07
45-19744	Central Maintenance Computing Function cannot connect to TCAS Computer. LRU does not give a reply..	45-10 TASK B07
45-19745	Central Maintenance Computing Function cannot connect to TMCF in Left AIMS. LRU does not give a reply..	45-10 TASK B01
45-19746	Central Maintenance Computing Function cannot connect to TMCF in Right AIMS. LRU does not give a reply..	45-10 TASK B02
45-19748	Central Maintenance Computing Function cannot connect to VHF Communication Transceiver (center). LRU does not give a reply..	45-10 TASK B10
45-19749	Central Maintenance Computing Function cannot connect to VHF Communication Transceiver (left). LRU does not give a reply..	45-10 TASK B10
45-19750	Central Maintenance Computing Function cannot connect to VHF Communication Transceiver (right). LRU does not give a reply..	45-10 TASK B10
45-19751	Central Maintenance Computing Function cannot connect to VOR/MB Receiver (left). LRU does not give a reply..	45-10 TASK B07
45-19752	Central Maintenance Computing Function cannot connect to VOR/MB Receiver (right). LRU does not give a reply..	45-10 TASK B08
45-19753	AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; Central Maintenance Computing Function cannot connect to WXR Transceiver (left). LRU does not give a reply.. AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3114-BCG-00W-16; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; Central Maintenance Computing Function cannot connect to WXR Transceiver or Radar Processor (Left). LRU does not give a reply..	45-10 TASK B07

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19754	AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; Central Maintenance Computing Function cannot connect to WXR Transceiver (right). LRU does not give a reply.. AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3114-BCG-00W-16; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; Central Maintenance Computing Function cannot connect to WXR Transceiver or Radar Processor (Right). LRU does not give a reply..	45-10 TASK B08
45-19755	Central Maintenance Computing Function cannot connect to Warning Electronic Unit (left channel 1). LRU does not give a reply..	45-10 TASK B25
45-19756	Central Maintenance Computing Function cannot connect to Warning Electronic Unit (left channel 2). LRU does not give a reply..	45-10 TASK B25
45-19757	Central Maintenance Computing Function cannot connect to Warning Electronic Unit (right channel 1). LRU does not give a reply..	45-10 TASK B25
45-19758	Central Maintenance Computing Function cannot connect to Warning Electronic Unit (right channel 2). LRU does not give a reply..	45-10 TASK B25
45-19759	Central Maintenance Computing Function cannot connect to Weight-On-Wheels Card (left). LRU does not give a reply..	45-10 TASK B14
45-19760	Central Maintenance Computing Function cannot connect to Weight-On-Wheels Card (right). LRU does not give a reply..	45-10 TASK B14
45-19761	Central Maintenance Computing Function cannot connect to Window Heat Control Unit (L Fwd & R Side). LRU does not give a reply..	45-10 TASK B07
45-19762	Central Maintenance Computing Function cannot connect to Window Heat Control Unit (R Fwd & L Side). LRU does not give a reply..	45-10 TASK B08
45-19764	Central Maintenance Computing Function cannot connect to Router. Router does not give a reply..	45-10 TASK B26
45-19770	Central Maintenance Computing Function can not connect to Network File Server. LRU does not give a reply..	45-11 TASK 831
45-19771	Central Maintenance Computing Function cannot connect to Multi-Mode Receiver (center). LRU does not give a reply..	45-10 TASK B09
45-19772	Central Maintenance Computing Function cannot connect to Multi-Mode Receiver (left). LRU does not give a reply..	45-10 TASK B07
45-19773	Central Maintenance Computing Function cannot connect to Multi-Mode Receiver (right). LRU does not give a reply..	45-10 TASK B08

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19774	Central Maintenance Computing Function has no input from Multi-Mode Receiver (center).	45-10 TASK A86
45-19775	Central Maintenance Computing Function has no input from Multi-Mode Receiver (left).	45-10 TASK A86
45-19776	Central Maintenance Computing Function has no input from Multi-Mode Receiver (right).	45-10 TASK A86
45-19779	Central Maintenance Computing Function cannot connect to Tire Brake Monitor Unit. LRU does not give a reply..	45-10 TASK B47
45-19798	Central Maintenance Computing Function has no input from ACMF in Right AIMS.	45-10 TASK A99
45-19800	Central Maintenance Computing Function has no input from ACIPS Control Card (center) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19801	Central Maintenance Computing Function has no input from ACIPS Control Card (center) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19802	Central Maintenance Computing Function has no input from ACIPS Control Card (left) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19803	Central Maintenance Computing Function has no input from ACIPS Control Card (left) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19804	Central Maintenance Computing Function has no input from ACIPS Control Card (right) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19805	Central Maintenance Computing Function has no input from ACIPS Control Card (right) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19806	Central Maintenance Computing Function has no input from ACMF in Left AIMS.	45-10 TASK A97
45-19807	Central Maintenance Computing Function has no input from ADF Receiver (left).	45-10 TASK A78
45-19808	Central Maintenance Computing Function has no input from ADF Receiver (right).	45-10 TASK A79
45-19811	Central Maintenance Computing Function has no input from Autopilot Flight Director Computer (Center).	45-10 TASK A87
45-19812	Central Maintenance Computing Function has no input from Autopilot Flight Director Computer (Left).	45-10 TASK A87
45-19813	Central Maintenance Computing Function has no input from Autopilot Flight Director Computer (Right).	45-10 TASK A87
45-19822	Central Maintenance Computing Function has no input from Air Supply Cabin Pressure Controller(L) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19823	Central Maintenance Computing Function has no input from Air Supply Cabin Pressure Controller(L) on System ARINC 629 Bus (right).	45-10 TASK A73

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19824	Central Maintenance Computing Function has no input from Air Supply Cabin Pressure Controller(R) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19825	Central Maintenance Computing Function has no input from Air Supply Cabin Pressure Controller(R) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19826	Central Maintenance Computing Function has no input from ATC/Mode S Transponder (left).	45-10 TASK A85
45-19827	Central Maintenance Computing Function has no input from ATC/Mode S Transponder (right).	45-10 TASK A85
45-19828	Central Maintenance Computing Function has no input from Air Data Module (Center Pitot).	45-10 TASK A89
45-19830	Central Maintenance Computing Function has no input from Air Data Module (Left Pitot).	45-10 TASK A89
45-19832	Central Maintenance Computing Function has no input from Air Data Module (Right Pitot).	45-10 TASK A89
45-19834	Central Maintenance Computing Function has no input from Audio Management Unit.	45-10 TASK A91
45-19835	Central Maintenance Computing Function has no input from Auxiliary Generator Control Unit (AGCU) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19836	Central Maintenance Computing Function has no input from Auxiliary Generator Control Unit (AGCU) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19838	Central Maintenance Computing Function has no input from Brake System Control Unit on System ARINC 629 Bus (left).	45-10 TASK A72
45-19839	Central Maintenance Computing Function has no input from Brake System Control Unit on System ARINC 629 Bus (right).	45-10 TASK A73
45-19840	Central Maintenance Computing Function has no input from Brake Temperature Monitor Unit.	45-10 TASK A91
45-19841	Central Maintenance Computing Function has no input from Bus Power Control Unit (BPCU) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19842	Central Maintenance Computing Function has no input from Bus Power Control Unit (BPCU) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19845	Central Maintenance Computing Function has no input from Left AIMS.	45-10 TASK A98
45-19846	Central Maintenance Computing Function has no input from Right AIMS.	45-10 TASK B00
45-19847	Central Maintenance Computing Function has no input from Cabin Temperature Controller (L Chan1).	45-10 TASK A92

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19848	Central Maintenance Computing Function has no input from Cabin Temperature Controller (L Chan2).	45-10 TASK A92
45-19849	Central Maintenance Computing Function has no input from Cabin Temperature Controller (R Chan1).	45-10 TASK A92
45-19850	Central Maintenance Computing Function has no input from Cabin Temperature Controller (R Chan2).	45-10 TASK A92
45-19854	Central Maintenance Computing Function has no input from Cargo Smoke Detector Ch 1 (lwr aft).	45-10 TASK A93
45-19855	Central Maintenance Computing Function has no input from Cargo Smoke Detector Ch 1 (lwr fwd).	45-10 TASK A93
45-19856	Central Maintenance Computing Function has no input from Cargo Smoke Detector Ch 2 (lwr aft).	45-10 TASK A93
45-19857	Central Maintenance Computing Function has no input from Cargo Smoke Detector Ch 2 (lwr fwd).	45-10 TASK A93
45-19858	Central Maintenance Computing Function has no input from Control Display Unit (Center) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19859	Central Maintenance Computing Function has no input from Control Display Unit (Left) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19860	Central Maintenance Computing Function has no input from Control Display Unit (Right) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19861	Central Maintenance Computing Function has no input from Converter on System ARINC 629 Bus (left).	45-10 TASK A72
45-19862	Central Maintenance Computing Function has no input from Converter on System ARINC 629 Bus (right).	45-10 TASK A73
45-19867	Central Maintenance Computing Function has no input from DCMF in Left AIMS.	45-10 TASK A97
45-19868	Central Maintenance Computing Function has no input from DCMF in Right AIMS.	45-10 TASK A99
45-19869	Central Maintenance Computing Function has no input from DFDAF in Left AIMS.	45-10 TASK A97
45-19870	Central Maintenance Computing Function has no input from DFDAF in Right AIMS.	45-10 TASK A99
45-19871	Central Maintenance Computing Function has no input from Display Function in Left AIMS.	45-10 TASK A97
45-19872	Central Maintenance Computing Function has no input from Display Function in Left AIMS.	45-10 TASK A97
45-19873	Central Maintenance Computing Function has no input from Display Function in Right AIMS.	45-10 TASK A99
45-19874	Central Maintenance Computing Function has no input from Display Function in Right AIMS.	45-10 TASK A99

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19881	Central Maintenance Computing Function has no input from DME Interrogator (left).	45-10 TASK A78
45-19882	Central Maintenance Computing Function has no input from DME Interrogator (right).	45-10 TASK A79
45-19883	Central Maintenance Computing Function has no input from ECSMC (left) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19884	Central Maintenance Computing Function has no input from ECSMC (left) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19885	Central Maintenance Computing Function has no input from ECSMC (right) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19886	Central Maintenance Computing Function has no input from ECSMC (right) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19919	AIMS-2, CMCF LDI 3114-BCG-00W-16; Central Maintenance Computing Function has no input from ELMS P110 Electronics Unit on System ARINC 629 Bus (left). AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; Central Maintenance Computing Function has no input from ELMS P110 Electronics unit on System ARINC 629 Bus (left).	45-10 TASK A72
45-19920	AIMS-2, CMCF LDI 3114-BCG-00W-16; Central Maintenance Computing Function has no input from ELMS P110 Electronics Unit on System ARINC 629 Bus (right). AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; Central Maintenance Computing Function has no input from ELMS P110 Electronics unit on System ARINC 629 Bus (right).	45-10 TASK A73
45-19921	AIMS-2, CMCF LDI 3114-BCG-00W-16; Central Maintenance Computing Function has no input from ELMS P210 Electronics Unit on System ARINC 629 Bus (left). AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; Central Maintenance Computing Function has no input from ELMS P210 Electronics unit on System ARINC 629 Bus (left).	45-10 TASK A72

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19922	AIMS-2, CMCF LDI 3114-BCG-00W-16; Central Maintenance Computing Function has no input from ELMS P210 Electronics Unit on System ARINC 629 Bus (right). AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3116-BCG-00W-14; AIMS-2, CMCF LDI 3117-BCG-00W-15; Central Maintenance Computing Function has no input from ELMS P210 Electronics unit on System ARINC 629 Bus (right).	45-10 TASK A73
45-19923	Central Maintenance Computing Function has no input from ELMS P310 Electronics Unit on System ARINC 629 Bus (left).	45-10 TASK A72
45-19924	Central Maintenance Computing Function has no input from ELMS P310 Electronics Unit on System ARINC 629 Bus (right).	45-10 TASK A73
45-19931	Central Maintenance Computing Function has no input from FSEU 1.	45-10 TASK B45
45-19933	Central Maintenance Computing Function has no input from FSEU 2.	45-10 TASK B45
45-19938	Central Maintenance Computing Function has no input from Generator Control Unit (L) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19939	Central Maintenance Computing Function has no input from Generator Control Unit (L) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19940	Central Maintenance Computing Function has no input from Generator Control Unit (R) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19941	Central Maintenance Computing Function has no input from Generator Control Unit (R) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19942	Central Maintenance Computing Function has no input from Ground Proximity Warning Computer.	45-10 TASK A84
45-19943	Central Maintenance Computing Function has no input from HF Communication Transceiver (left).	45-10 TASK A84
45-19944	Central Maintenance Computing Function has no input from HF Communication Transceiver (right).	45-10 TASK A84
45-19945	Central Maintenance Computing Function has no input from Hydraulic Interface Module (HYDIM)(CL) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19946	Central Maintenance Computing Function has no input from Hydraulic Interface Module (HYDIM)(CL) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19947	Central Maintenance Computing Function has no input from Hydraulic Interface Module (HYDIM)(CR) on System ARINC 629 Bus (left).	45-10 TASK A72

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19948	Central Maintenance Computing Function has no input from Hydraulic Interface Module (HYDIM)(CR) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19949	Central Maintenance Computing Function has no input from Hydraulic Interface Module (HYDIM)(L) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19950	Central Maintenance Computing Function has no input from Hydraulic Interface Module (HYDIM)(L) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19951	Central Maintenance Computing Function has no input from Hydraulic Interface Module (HYDIM)(R) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19952	Central Maintenance Computing Function has no input from Hydraulic Interface Module (HYDIM)(R) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19953	Central Maintenance Computing Function has no input from ILS Receiver (center).	45-10 TASK A85
45-19954	Central Maintenance Computing Function has no input from ILS Receiver (left).	45-10 TASK A80
45-19955	Central Maintenance Computing Function has no input from ILS Receiver (right).	45-10 TASK A81
45-19956	Central Maintenance Computing Function has no input from Maintenance Access Terminal Display.	45-10 TASK A95
45-19960	Central Maintenance Computing Function has no input from Overhead Panel Bus Controller (L) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19961	Central Maintenance Computing Function has no input from Overhead Panel Bus Controller (L) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19962	Central Maintenance Computing Function has no input from Overhead Panel Bus Controller (R) on System ARINC 629 Bus (left).	45-10 TASK A72
45-19963	Central Maintenance Computing Function has no input from Overhead Panel Bus Controller (R) on System ARINC 629 Bus (right).	45-10 TASK A73
45-19964	Central Maintenance Computing Function has no input from Pass. Address/Cabin Interphone Controller.	45-10 TASK A91
45-19965	Central Maintenance Computing Function has no input from PSEU 1 (L1).	45-10 TASK A87
45-19966	Central Maintenance Computing Function has no input from PSEU 1 (R1).	45-10 TASK A87
45-19967	Central Maintenance Computing Function has no input from PSEU 2 (L2).	45-10 TASK A87

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19968	Central Maintenance Computing Function has no input from PSEU 2 (R2).	45-10 TASK A87
45-19971	Central Maintenance Computing Function has no input from Power Supply Assembly (right).	45-98 TASK 801
45-19975	Central Maintenance Computing Function has no input from Printer.	45-10 TASK A84
45-19976	Central Maintenance Computing Function has no input from Radio Altimeter Transceiver (center).	45-10 TASK A84
45-19977	Central Maintenance Computing Function has no input from Radio Altimeter Transceiver (left).	45-10 TASK A85
45-19978	Central Maintenance Computing Function has no input from Radio Altimeter Transceiver (right).	45-10 TASK A85
45-19979	Central Maintenance Computing Function has no input from Radio Tuning Panel (center).	45-98 TASK 801
45-19980	Central Maintenance Computing Function has no input from Radio Tuning Panel (left).	45-98 TASK 801
45-19981	Central Maintenance Computing Function has no input from Radio Tuning Panel (right).	45-98 TASK 801
45-19982	Central Maintenance Computing Function has no input from Secondary Attitude Air Data Reference Unit.	45-98 TASK 801
45-19985	Central Maintenance Computing Function has no input from Satellite Data Unit (left).	45-10 TASK A82
45-19987	Central Maintenance Computing Function has no input from Standby Airspeed Indicator.	45-98 TASK 801
45-19988	Central Maintenance Computing Function has no input from Standby Altimeter.	45-98 TASK 801
45-19989	Central Maintenance Computing Function has no input from Standby Attitude Indicator.	45-98 TASK 801
45-19990	Central Maintenance Computing Function has no input from TCAS Computer.	45-10 TASK A85
45-19991	Central Maintenance Computing Function has no input from TMCF in Left AIMS.	45-10 TASK A97
45-19992	Central Maintenance Computing Function has no input from TMCF in Right AIMS.	45-10 TASK A99
45-19993	Central Maintenance Computing Function has no input from Tire Pressure Monitor Unit.	45-98 TASK 801
45-19994	Central Maintenance Computing Function has no input from VHF Communication Transceiver (center).	45-10 TASK A84
45-19995	Central Maintenance Computing Function has no input from VHF Communication Transceiver (left).	45-10 TASK A84

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MAINT MESSAGE	MESSAGE TEXT	GO TO FIM TASK
45-19996	Central Maintenance Computing Function has no input from VHF Communication Transceiver (right).	45-10 TASK A84
45-19997	Central Maintenance Computing Function has no input from VOR/MB Receiver (left).	45-10 TASK A78
45-19998	Central Maintenance Computing Function has no input from VOR/MB Receiver (right).	45-10 TASK A79
45-20003	AIMS-1, CPM/Comm OPS S/W 3166-HNP-002-11; AIMS-2, CMCF LDI 3111-BCG-00W-13; AIMS-2, CMCF LDI 3116-BCG-00W-14; Maintenance Access Terminal has no input from CMCF on the ARINC 636 AVLAN. AIMS-2, CMCF LDI 3114-BCG-00W-16; Maintenance Access Terminal has no input from CMCF on the ARINC 636 AvLAN.	45-11 TASK 816
45-20004	Maintenance Access Terminal has no input from CMCF on the PlaneNet.	45-11 TASK 826
45-20005	Central Maintenance Computing Function cannot connect to Nitrogen Generation System. LRU does not give a reply.	45-10 TASK B49
45-20101	CMCF/QARF IMS in Left AIMS has an internal fault.	45-10 TASK B54
45-20102	CMCF/QARF IMS in Right AIMS has an internal fault.	45-10 TASK B55
45-30028	Cursor Control Device (Left) signal has no output or is failed.	31-61 TASK 809
45-30128	Cursor Control Device (Right) signal has no output or is failed.	31-61 TASK 810

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A30. Left CMCF Internal Software Fault - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-10021.

B. Fault Isolation Procedure

- (1) Make these selections on the MAT to make sure the right CMCF is in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL.

- (a) If the display shows that the left CMCF is in control, select SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (b) If the display shows that the right CMCF is in control, then select GO BACK.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) Select LINE MAINTENANCE, EXIT MAINTENANCE, Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (2) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

NOTE: The reset erases the fault history data from the left CMCF. The right CMCF will automatically send a copy of its fault history data to the left CMCF.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (3) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

NOTE: The reset erases the fault history data from the left CMCF. The right CMCF will automatically send a copy of its fault history data to the left CMCF.

ARO ALL

- (4) Stop for 5 minutes while the right CMCF sends a copy of its fault history data to the left CMCF.

NOTE: You must stop for 5 minutes to make sure that all the fault history data goes to the left CMCF. (The PASSED indication shows before all fault history data is in the left CMCF. It is safe to continue when you can use the CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL function again.)

- (5) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

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45-10 TASK A30

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A31. Right CMCF Internal Software Fault - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-10022.

B. Fault Isolation Procedure

- (1) Make these selections on the MAT to make sure the left CMCF is in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL.

- (a) If the display shows that the right CMCF is in control, select SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (b) If the display shows that the left CMCF is in control, then select GO BACK.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) Select LINE MAINTENANCE, EXIT MAINTENANCE, Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (2) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

NOTE: The reset erases the fault history data from the right CMCF. The left CMCF will automatically send a copy of its fault history data to the right CMCF.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

NOTE: The reset erases the fault history data from the right CMCF. The left CMCF will automatically send a copy of its fault history data to the right CMCF.

ARO ALL

- (4) Stop for 5 minutes while the left CMCF sends a copy of its fault history data to the right CMCF.

NOTE: You must stop for 5 minutes to make sure that all the fault history data goes to the right CMCF. (The PASSED indication shows before all fault history data is in the right CMCF. It is safe to continue when you can use the CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL function again.)

- (5) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A32. Left CMCF Software Configuration Problems - Fault Isolation

A. Fault Isolation Procedure

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45-10 TASKS A31-A32

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (1) Do a check of the system configuration for this system on the MAT: 31 AIMS - Left AIMS.
 - (a) Find CPM/Comm(M001) in Left AIMS on the display and make sure that the software part numbers are correct.
 - (b) If a part number is incorrect, install software in the CPM/Comm(M001) module in the left AIMS cabinet. To install the software, do this task: Core Processor Module/COMM Software Installation, AMM TASK 31-41-04-420-804.
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (2) Do a check of the system configuration for this system on the MAT: 31 AIMS - Left AIMS.
 - (a) Find IOM(M003) in Left AIMS on the display and make sure that the software part numbers are correct.
 - (b) If a part number is incorrect, install software in the IOM(M003) module in the left AIMS cabinet. To install the software, do this task: Input/Output Module (IOM) Software Installation, AMM TASK 31-41-11-420-806.
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A33. Right CMCF Software Configuration Problems - Fault Isolation

A. Fault Isolation Procedure

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (1) Do a check of the system configuration for this system on the MAT: 31 AIMS - Right AIMS.
 - (a) Find CPM/Comm(M001) in Right AIMS on the display and make sure that the software part numbers are correct.
 - (b) If a part number is incorrect, install software in the CPM/Comm(M001) module in the right AIMS cabinet. To install the software, do this task: Core Processor Module/COMM Software Installation, AMM TASK 31-41-04-420-804.
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (2) Do a check of the system configuration for this system on the MAT: 31 AIMS - Right AIMS.
 - (a) Find IOM(M003) in Right AIMS on the display and make sure that the software part numbers are correct.
 - (b) If a part number is incorrect, install software in the IOM(M003) module in the right AIMS cabinet. To install the software, do this task: Input/Output Module (IOM) Software Installation, AMM TASK 31-41-11-420-806.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218
(Continued)

- (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A34. Left and Right CMCF Software Configuration Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-10050.

B. Fault Isolation Procedure

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (1) If the maintenance message shows immediately after you install the CMCF AMI, CPM/Comm OPS, or CPM/Comm OPC software into the left and right CPM/Comm modules, start here:

- (a) If you installed the software into the left CPM/Comm first and then the right CPM/Comm, reset the left CPM/Comm:

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 1) ONBOARD MAINTENANCE
 - 2) LINE MAINTENANCE
 - 3) GROUND TESTS
 - 4) 31 AIMS- Left AIMS
 - 5) SYSTEM TEST
 - 6) CPM/Comm (M001) in Left AIMS Module Reset
 - 7) CONTINUE
 - 8) Do the instructions that show on the display and then make these selections:
 - 9) CONTINUE
 - 10) START TEST
- (b) If you installed the software into the right CPM/Comm first and then the left CPM/Comm, reset the right CPM/Comm:

- 1) ONBOARD MAINTENANCE
- 2) LINE MAINTENANCE
- 3) GROUND TESTS
- 4) 31 AIMS- Right AIMS
- 5) SYSTEM TEST
- 6) CPM/Comm (M001) in Right AIMS Module Reset
- 7) CONTINUE
- 8) Do the instructions that show on the MAT and then make these selections:
- 9) CONTINUE
- 10) START TEST

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (2) If the maintenance message shows immediately after you install the CMCF AMI, CMCF LDI, or IOM OPS software into the left and right IOM modules, start here:
 - (a) If you installed the software into the left IOM first and then the right IOM, reset the left IOM:
 - 1) ONBOARD MAINTENANCE
 - 2) LINE MAINTENANCE
 - 3) GROUND TESTS
 - 4) 31 AIMS- Left AIMS
 - 5) SYSTEM TEST
 - 6) IOM(M003) in Left AIMS Module Reset
 - 7) CONTINUE
 - 8) Do the instructions that show on the display and then make these selections:
 - 9) CONTINUE
 - 10) START TEST
 - (b) If you installed the software into the right IOM first and then the left IOM, reset the right IOM:
 - 1) ONBOARD MAINTENANCE
 - 2) LINE MAINTENANCE
 - 3) GROUND TESTS
 - 4) 31 AIMS- Right AIMS
 - 5) SYSTEM TEST
 - 6) IOM(M003) in Right AIMS Module Reset
 - 7) CONTINUE
 - 8) Do the instructions that show on the MAT and then make these selections:
 - 9) CONTINUE
 - 10) START TEST

ARO ALL

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (3) Do a check of the system configuration for this system on the MAT: 31 AIMS - Left AIMS.
 - (a) Find CPM/Comm(M001) in Left AIMS on the display and make sure that the software part numbers are correct.
 - (b) If a part number is incorrect, install software in the CPM/Comm(M001) module in the left AIMS cabinet. To install the software, do this task: Core Processor Module/COMM Software Installation, AMM TASK 31-41-04-420-804.
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (4) Do a check of the system configuration for this system on the MAT: 31 AIMS - Left AIMS.
 - (a) Find IOM(M003) in Left AIMS on the display and make sure that the software part numbers are correct.
 - (b) If a part number is incorrect, install software in the IOM(M003) module in the left AIMS cabinet. To install the software, do this task: Input/Output Module (IOM) Software Installation, AMM TASK 31-41-11-420-806.
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (5) Do a check of the system configuration for this system on the MAT: 31 AIMS - Right AIMS.
 - (a) Find CPM/Comm(M001) in Right AIMS on the display and make sure that the software part numbers are correct.
 - (b) If a part number is incorrect, install software in the CPM/Comm(M001) module in the right AIMS cabinet. To install the software, do this task: Core Processor Module/COMM Software Installation, AMM TASK 31-41-04-420-804.
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (6) Do a check of the system configuration for this system on the MAT: 31 AIMS - Right AIMS.
 - (a) Find IOM(M003) in Right AIMS on the display and make sure that the software part numbers are correct.
 - (b) If a part number is incorrect, install software in the IOM(M003) module in the right AIMS cabinet. To install the software, do this task: Input/Output Module (IOM) Software Installation, AMM TASK 31-41-11-420-806.
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A35. CMCF (Left) No Input from Function (ACMF, DCGF-2, FMCF, FMCF/Nav, or TCMF) in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12001, 45-12041, 45-12101, 45-12111, 45-12121.

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.

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C. Fault Isolation Procedure

(1) Do these AIMS module resets:

- (a) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/STD(M002) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (b) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) Select LINE MAINTENANCE, EXIT MAINTENANCE, Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (c) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (d) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) Select LINE MAINTENANCE, EXIT MAINTENANCE, Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (e) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO ALL

(2) Replace the CPM/STD(M002) module in the left AIMS cabinet.

These are the tasks:

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Core Processor Module/STD Removal, AMM TASK 31-41-05-000-801,
Core Processor Module/STD Installation, AMM TASK 31-41-05-400-801.

- (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.
- (3) Replace the CPM/Comm(M001) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM
TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM
TASK 31-41-04-400-802.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (4) Replace the IOM(M003) module in the left AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,

Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A36. CMCF (Right) No Input from Function (ACMF, DCGF-2, FMCF, FMCF/Nav, or TMCF) in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12004, 45-12044, 45-12104, 45-12114, 45-12124.

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 AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/STD(M002) in Right AIMS Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (b) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) Select LINE MAINTENANCE, EXIT MAINTENANCE, Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (d) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) Select LINE MAINTENANCE, EXIT MAINTENANCE, Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO ALL

- (2) Replace the CPM/STD(M002) module in the right AIMS cabinet.

These are the tasks:

Core Processor Module/STD Removal, AMM TASK 31-41-05-000-801,

Core Processor Module/STD Installation, AMM TASK 31-41-05-400-801.

- (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.

- (3) Replace the CPM/Comm(M001) module in the right AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM TASK 31-41-04-400-802.

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- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (4) Replace the IOM(M003) module in the right AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,

Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A37. CMCF (Left) No Input from Function (CMCF, DCMF, DFDAF, or FDCF) in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12011, 45-12051, 45-12061, 45-12091.

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 AIMS module reset:

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (a) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (b) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (c) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.
 - 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
 - 2) Select ONBOARD MAINTENANCE.
- (d) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO ALL

- (2) Replace the CPM/Comm(M001) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM TASK 31-41-04-400-802.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (3) Replace the IOM(M003) module in the left AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,

Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A38. CMCF (Right) No Input from Function (CMCF, DCMF, DFDAF, or FDCF) in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12014, 45-12054, 45-12064, 45-12094.

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 AIMS module reset:

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (a) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (c) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (d) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO ALL

- (2) Replace the CPM/Comm(M001) module in the right AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM TASK 31-41-04-400-802.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (3) Replace the IOM(M003) module in the right AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,

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**ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218
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Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A39. CMCF (Left) No Input from Function (DCGF-1, Displays-1, or Displays-2) in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12031, 45-12071, 45-12073.

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 AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/GG(M010) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/GG(M011) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (d) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218 (Continued)

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (e) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (2) Replace the CPM/GG1(M010) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/Graphics Generator (CPM/GG) Removal, AMM TASK 31-41-02-000-801,

Core Processor Module/Graphics Generator (CPM/GG) Installation, AMM TASK 31-41-02-400-801.

- (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.
- (3) Replace the CPM/GG2(M011) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/Graphics Generator (CPM/GG) Removal, AMM TASK 31-41-02-000-801,

Core Processor Module/Graphics Generator (CPM/GG) Installation, AMM TASK 31-41-02-400-801.

- (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.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (4) Replace the CPM/Comm(M001) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM TASK 31-41-04-400-802.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (5) Replace the IOM(M003) module in the left AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,

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Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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————— END OF TASK —————

A40. CMCF (Right) No Input from Function (DCGF-1, Displays-1, or Displays-2) in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12034, 45-12082, 45-12084.

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 AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/GG(M010) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/GG(M011) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (d) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (2) Replace the CPM/GG1(M010) module in the right AIMS cabinet.

These are the tasks:

Core Processor Module/Graphics Generator (CPM/GG) Removal, AMM TASK 31-41-02-000-801,

Core Processor Module/Graphics Generator (CPM/GG) Installation, AMM TASK 31-41-02-400-801.

- (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.
- (3) Replace the CPM/GG2(M011) module in the right AIMS cabinet.

These are the tasks:

Core Processor Module/Graphics Generator (CPM/GG) Removal, AMM TASK 31-41-02-000-801,

Core Processor Module/Graphics Generator (CPM/GG) Installation, AMM TASK 31-41-02-400-801.

- (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.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (4) Replace the CPM/Comm(M001) module in the right AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM TASK 31-41-04-400-802.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (5) Replace the IOM(M003) module in the right AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,

Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218
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- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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————— END OF TASK —————

A41. CMCF (Left) No Input from Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12021.

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 AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/STD(M002) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/GG(M010) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/GG(M011) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (d) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (e) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (f) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Select ONBOARD MAINTENANCE.

- (g) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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

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- (2) Replace the CPM/STD(M002) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/STD Removal, AMM TASK 31-41-05-000-801,

Core Processor Module/STD Installation, AMM TASK 31-41-05-400-801.

- (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.

- (3) Replace the CPM/GG1(M010) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/Graphics Generator (CPM/GG) Removal, AMM TASK 31-41-02-000-801,

Core Processor Module/Graphics Generator (CPM/GG) Installation, AMM TASK 31-41-02-400-801.

- (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.

- (4) Replace the CPM/GG2(M011) module in the left AIMS cabinet.

These are the tasks:

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Core Processor Module/Graphics Generator (CPM/GG) Removal, AMM TASK 31-41-02-000-801,

Core Processor Module/Graphics Generator (CPM/GG) Installation, AMM TASK 31-41-02-400-801.

- (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 CPM/Comm(M001) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM TASK 31-41-04-400-802.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (6) Replace the IOM(M003) module in the left AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,

Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A42. CMCF (Right) No Input from Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12024.

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 AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/STD(M002) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/GG(M010) in Right AIMS Module Reset.

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- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/GG(M011) in Right AIMS Module Reset.
- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (d) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (f) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (g) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (2) Replace the CPM/STD(M002) module in the right AIMS cabinet.

These are the tasks:

Core Processor Module/STD Removal, AMM TASK 31-41-05-000-801,

Core Processor Module/STD Installation, AMM TASK 31-41-05-400-801.

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- (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 CPM/GG1(M010) module in the right AIMS cabinet.
These are the tasks:
Core Processor Module/Graphics Generator (CPM/GG) Removal, AMM TASK 31-41-02-000-801,
Core Processor Module/Graphics Generator (CPM/GG) Installation, AMM TASK 31-41-02-400-801.
 - (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.
- (4) Replace the CPM/GG2(M011) module in the right AIMS cabinet.
These are the tasks:
Core Processor Module/Graphics Generator (CPM/GG) Removal, AMM TASK 31-41-02-000-801,
Core Processor Module/Graphics Generator (CPM/GG) Installation, AMM TASK 31-41-02-400-801.
 - (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 CPM/Comm(M001) module in the right AIMS cabinet.
These are the tasks:
Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802,
Core Processor Module/Communication (CPM/Comm) Installation, AMM TASK 31-41-04-400-802.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (6) Replace the IOM(M003) module in the right AIMS cabinet.
These are the tasks:
Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,
Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A43. CMCF (Right) No Input from ACMF in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12002.

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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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M008) in Left AIMS
 - b) IOM(M009) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (4)
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M009) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (4)
 - 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (4)
 - 4) The right AIMS has no input from left AIMS on any AIMS Intercabinet Bus.
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/STD(M002) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (d) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (g) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (h) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218 (Continued)

- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A44. CMCF (Left) No Input from Function (CMCF or DCMF) in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12012, 45-12053.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Left AIMS
 - b) IOM(M008) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 3) The left AIMS has no input from the right AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 4) The left AIMS has no input from the right AIMS on any AIMS Intercabinet Bus.
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M004) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.

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- 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (d) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (e) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (f) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (g) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218 (Continued)

- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (h) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A45. CMCF (Right) No Input from Function (CMCF or DCMF) in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12013, 45-12052.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Left AIMS
 - b) IOM(M008) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M004) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 4) The right AIMS has no input from the left AIMS on any AIMS Intercabinet Bus.

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- (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (a) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (b) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (c) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (d) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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**ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218
(Continued)**

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (e) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (g) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (h) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (i) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (j) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (k) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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————— **END OF TASK** —————

A46. CMCF (Right) No Input from Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12022.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Left AIMS
 - b) IOM(M009) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (3)
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Right AIMS
 - b) IOM(M009) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (3)
 - 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (3)
 - 4) The right AIMS has no input from the left AIMS on any AIMS Intercabinet Bus.
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.

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- 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (d) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (e) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (f) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (g) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.
 - 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
 - 2) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (h) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- (i) Do these ground tests on the MAT:
 - 1) 31 AIMS - Left AIMS, System Test, CPM/STD(M002) in Left AIMS Module Reset.
 - 2) 31 AIMS - Left AIMS, System Test, CPM/GG(M010) in Left AIMS Module Reset.
 - 3) 31 AIMS - Left AIMS, System Test, CPM/GG(M011) in Left AIMS Module Reset.
 - 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.
- (j) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (k) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (l) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A47. CMCF (Left) No Input from Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12023.

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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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Left AIMS
 - b) IOM(M009) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (3)
 - 3) The left AIMS has no input from the right AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (3)
 - 4) The left AIMS has no input from the right AIMS on any AIMS Intercabinet Bus.
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Right AIMS
 - b) IOM(M009) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (3)
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) Do these ground tests on the MAT:
 - 1) 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 2) 31 AIMS - Right AIMS, System Test, CPM/Basic(M002) in Right AIMS Module Reset.
 - 3) 31 AIMS - Right AIMS, System Test, CPM/GG(M010) in Right AIMS Module Reset.
 - 4) 31 AIMS - Right AIMS, System Test, CPM/GG(M011) in Right AIMS Module Reset.
 - 5) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 6) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (g) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (h) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A48. CMCF (Right) No Input from Function (DCGF-1, Displays-1, or Displays-2) in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12032, 45-12072, 45-12074.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M004) in Left AIMS
 - c) IOM(M008) in Left AIMS
 - 2) An IOM has an AIMS ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M004) in Right AIMS
 - c) IOM(M008) in Right AIMS
 - 2) An IOM has an ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)

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- c) System ARINC 629 Bus (center 2)
- 4) The right AIMS has no input from the left AIMS on any AIMS Intercabinet Bus.
- (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/GG(M010) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/GG(M011) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (d) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (e) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (f) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

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ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (g) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (h) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (i) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (j) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (k) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A49. CMCF (Left) No Input from Function (DCGF-1, Displays-1, or Displays-2) in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12033, 45-12081, 45-12083.

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B. Initial Evaluation

- (1) If the MAT shows ACTIVE for the maintenance message, then do the Fault Isolation Procedure below.

C. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M004) in Left AIMS
 - c) IOM(M008) in Left AIMS
 - 2) An IOM has an ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - 3) The left AIMS has no input from the right AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - 4) The left AIMS has no input from the right AIMS on any AIMS Intercabinet Bus.
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M004) in Right AIMS
 - c) IOM(M008) in Right AIMS
 - 2) An IOM has an ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:

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- (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/GG(M010) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/GG(M011) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (f) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Select ONBOARD MAINTENANCE.

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- (g) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (h) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (i) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (j) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (k) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A50. CMCF (Right) No Input from DCGF-2 in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12042.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M004) in Left AIMS

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- c) IOM(M008) in Left AIMS
 - 2) An IOM has an ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M004) in Right AIMS
 - c) IOM(M008) in Right AIMS
 - 2) An IOM has an ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - 4) The right AIMS has no input from the left AIMS on any AIMS Intercabinet Bus.
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
- (a) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/STD(M002) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (f) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (g) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (h) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (i) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (j) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (k) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A51. CMCF (Left) No Input from DCGF-2 in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12043.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M004) in Left AIMS
 - c) IOM(M008) in Left AIMS
 - 2) An IOM has an ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - 3) The left AIMS has no input from the right AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
 - 4) The left AIMS has no input from the right AIMS on any AIMS Intercabinet Bus.
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:

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- 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M004) in Right AIMS
 - c) IOM(M008) in Left AIMS
 - 2) An IOM has an ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) System ARINC 629 Bus (center 1)
 - c) System ARINC 629 Bus (center 2)
- (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
- 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
- (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/STD(M002) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (d) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.

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

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (f) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (g) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (h) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (i) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (j) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (k) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A52. CMCF (Right) No Input from Function (DFDAF) in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12062.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
- (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
- 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M004) in Left AIMS
 - c) IOM(M009) in Left AIMS
 - 2) An IOM has an ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet ARINC 629 Bus (2)
 - c) AIMS Intercabinet ARINC 629 Bus (3)
- (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
- 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Right AIMS
 - b) IOM(M008) in Right AIMS
 - c) IOM(M009) in Right AIMS
 - 2) An IOM has an ARINC 629 fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet ARINC 629 Bus (2)
 - c) AIMS Intercabinet ARINC 629 Bus (3)
 - 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet ARINC 629 Bus (2)

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- c) AIMS Intercabinet ARINC 629 Bus (3)
- 4) The right AIMS has no input from the left AIMS on any AIMS Intercabinet Bus.
- (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (d) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (f) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.

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- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (g) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (h) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (i) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (j) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (k) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A53. CMCF (Left) No Input from DFDAF in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12063.

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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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M004) in Left AIMS
 - c) IOM(M009) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - c) AIMS Intercabinet Bus (3)
 - 3) The left AIMS has no input from the right AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - c) AIMS Intercabinet Bus (3)
 - 4) The left AIMS has no input from the right AIMS on any AIMS Intercabinet Bus.
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Right AIMS
 - b) IOM(M008) in Right AIMS
 - c) IOM(M009) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - c) AIMS Intercabinet Bus (3)
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.

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- (2) Do these AIMS module resets:
- (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (d) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (e) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (f) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (g) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (h) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (i) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (j) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A54. CMCF (Right) No Input from FDCF in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12092.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M009) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:

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- a) IOM(M008) in Right AIMS
- b) IOM(M009) in Right AIMS
- 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
- 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
- 4) The right AIMS has no input from the left AIMS on any AIMS Intercabinet Bus.
- (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (d) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (g) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (h) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A55. CMCF (Left) No Input from FDCF in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12093.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M009) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)

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- 3) The left AIMS has no input from the right AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - 4) The left AIMS has no input from the right AIMS on any AIMS Intercabinet Bus.
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M008) in Right AIMS
 - b) IOM(M009) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
- (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (d) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

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ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (e) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (g) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (h) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A56. CMCF (Right) No Input from Function (FMCF/Nav or TMCf) in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12112, 45-12122.

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.

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C. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Left AIMS
 - b) IOM(M008) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M004) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 4) The right AIMS has no input from the left AIMS on any AIMS Intercabinet Bus.
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/STD(M002) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (d) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Select ONBOARD MAINTENANCE.

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- (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (g) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.
- (h) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A57. CMCF (Right) No Input from FMCF in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12102.

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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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M009) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M008) in Right AIMS
 - b) IOM(M009) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - 4) The right AIMS has no input from the left AIMS on any AIMS Intercabinet Bus.
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/STD(M002) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (g) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (h) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A58. CMCF (Left) No Input from FMCF in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12103.

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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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Left AIMS
 - b) IOM(M008) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 3) The left AIMS has no input from the right AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 4) The left AIMS has no input from the right AIMS on any AIMS Intercabinet Bus.
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M004) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/STD(M002) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (d) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (g) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (h) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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END OF TASK

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A59. CMC (Left) No Input from Function (FMC/Nav or TMC) in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-12113, 45-12123.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Left AIMS
 - b) IOM(M009) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - 3) The left AIMS has no input from the right AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - 4) The left AIMS has no input from the right AIMS on any AIMS Intercabinet Bus.
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M008) in Right AIMS
 - b) IOM(M009) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (1)
 - b) AIMS Intercabinet Bus (2)
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:

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- (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/STD(M002) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (b) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (c) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (d) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Select ONBOARD MAINTENANCE.

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- (e) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (g) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

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ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (h) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A60. Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-15550, 45-15551, 45-15552, 45-15553.

B. Fault Isolation Procedure

- (1) Replace the applicable LRU that shows in the maintenance message:
 - (a) Electronic Engine Control (L Eng, ch A or ch B, or R Eng, ch A or ch B), M73003.
These are the tasks:
EEC (FADEC) Removal, AMM TASK 73-21-15-000-801-H01,
EEC (FADEC) Installation, AMM TASK 73-21-15-400-801-H01.
 - (b) FSEU 1, M27001, or FSEU 2, M27002.
These are the tasks:
Flap/Slat Electronics Unit (FSEU) Removal, AMM TASK 27-51-01-000-801,
Flap/Slat Electronics Unit (FSEU) Installation, AMM TASK 27-51-01-400-801.
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

A61. Function (ACMF, FMCF, FMCF/Nav, or TMCF) in Left AIMS Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-15501, 45-15521, 45-15523, 45-15525.

B. Fault Isolation Procedure

- (1) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/STD(M002) in Left AIMS Module Reset.
 - (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.
- (2) Reinstall the software for Right CPM/STD(M002), do this task: Core Processor Module/Standard Software Installation, AMM TASK 31-41-05-420-801

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- (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 —————

A62. Function (CMCF, DCMF, DFDAF, or FDCF) or CPM/Comm in Left AIMS Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-15503, 45-15505, 45-15511, 45-15513, 45-15519.

B. Fault Isolation Procedure

- (1) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (a) On the MATA AIMS Main Menu, select Interface R_AIMS.
- (b) Select ONBOARD MAINTENANCE.

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- (2) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (3) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A63. Function (CMCF, DCMF, DFDAF, or FDCF) or CPM/Comm in Right AIMS Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-15504, 45-15506, 45-15512, 45-15514, 45-15520.

B. Fault Isolation Procedure

- (1) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (a) On the MATA AIMS Main Menu, select Interface L_AIMS.
- (b) Select ONBOARD MAINTENANCE.

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- (2) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A64. Function (ACMF, FMCF, FMCF/Nav, or TMCF) in Right AIMS Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-15502, 45-15522, 45-15524, 45-15526.

B. Fault Isolation Procedure

- (1) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/STD(M002) in Right AIMS Module Reset.
 - (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.
- (2) Reinstall the software for Right CPM/STD(M002), do this task: Core Processor Module/Standard Software Installation, AMM TASK 31-41-05-420-801
 - (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 —————

A65. Function (DCGF-1, Displays-1, or Displays-2) in Left AIMS Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-15507, 45-15515, 45-15517.

B. Fault Isolation Procedure

- (1) Do these ground tests on the MAT:
 - (a) 31 AIMS - Left AIMS, System Test, CPM/GG(M010) in Left AIMS Module Reset
 - (b) 31 AIMS - Left AIMS, System Test, CPM/GG(M011) in Left AIMS Module Reset

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- (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

A66. Function (DCGF-1, Displays-1, or Displays-2) in Right AIMS Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-15508, 45-15516, 45-15518.

B. Fault Isolation Procedure

- (1) Do these ground tests on the MAT:
 - (a) 31 AIMS - Right AIMS, System Test, CPM/GG(M010) in Right AIMS Module Reset
 - (b) 31 AIMS - Right AIMS, System Test, CPM/GG(M011) in Right AIMS Module Reset
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

A67. DCGF-2 in Left AIMS Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-15509.

B. Fault Isolation Procedure

- (1) Do these steps:
 - (a) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.
NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/STD(M002) in Left AIMS Module Reset.
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

A68. DCGF-2 in Right AIMS Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-15510.

B. Fault Isolation Procedure

- (1) Do these ground tests on the MAT:
 - (a) 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset
 - (b) 31 AIMS - Right AIMS, System Test, CPM/STD(M002) in Right AIMS Module Reset
 - (c) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

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A69. LRU to CMCF Invalid Signal Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-15531, 45-15532, 45-15533, 45-15534, 45-15535, 45-15536, 45-15537, 45-15538, 45-15541, 45-15542, 45-15543, 45-15544.

B. Fault Isolation Procedure

- (1) Replace the applicable LRU that shows in the maintenance message:
 - (a) Autopilot Flight Director Computer (Center), M22301 (Left), M22101 or (Right), M22201.
These are the tasks:
Autopilot Flight Director Computer Removal, AMM TASK 22-11-01-000-801,
Autopilot Flight Director Computer Installation, AMM TASK 22-11-01-400-801.
 - (b) Auxiliary Generator Control Unit (AGCU), M24305.
These are the tasks:
Generator Control Unit Removal, AMM TASK 24-22-02-000-801,
Generator Control Unit Installation, AMM TASK 24-22-02-400-801.
 - (c) Bus Power Control Unit (BPCU), M24002.
These are the tasks:
BPCU Removal, AMM TASK 24-41-05-000-801,
BPCU Installation, AMM TASK 24-41-05-400-801.
 - (d) Backup Converter, M24008.
These are the tasks:
Backup Generator Converter Removal, AMM TASK 24-25-09-000-801,
Backup Generator Converter Installation, AMM TASK 24-25-09-400-801.
 - (e) Electronic ENG Control (FADEC) (L Eng, ch A or ch B, or R Eng, ch A or ch B), M73003.
These are the tasks:
EEC (FADEC) Removal, AMM TASK 73-21-15-000-801-H01,
EEC (FADEC) Installation, AMM TASK 73-21-15-400-801-H01.
 - (f) Generator Control Unit (L), M24105, or (R), M24205.
These are the tasks:
Generator Control Unit Removal, AMM TASK 24-22-02-000-801,
Generator Control Unit Installation, AMM TASK 24-22-02-400-801.
 - (g) PSEU 1 (L1 or R1), M32021, or PSEU 2 (L2 or R2), M32025.

- 1) If any of these Maintenance Messages occur (45-15541, 45-15542, 45-15543, 45-15544) with no other associated then cycle power for appropriate messages as follow:

NOTE: Open all applicable circuit breakers before closing any.

Open the following circuit breakers for PSEU 1: (45-15441, 45-15542)

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
H	26	C32600	PSEU 1 PRI PWR

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Standby Power Management Panel, P310

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	1	C32603	PSEU 1 ALTN PWR

Open the following circuit breakers for PSEU 2: (45-15443, 45-15544)

Right Power Management Panel, P210

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

Standby Power Management Panel, P310

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	2	C32624	PSEU 2 ALTN PWR

Close the following circuit breaker for PSEU 1: (45-15441, 45-15542)

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
H	26	C32600	PSEU 1 PRI PWR

Standby Power Management Panel, P310

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	1	C32603	PSEU 1 ALTN PWR

Close the following circuit breakers for PSEU 2: (45-15443, 45-15544)

Right Power Management Panel, P210

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

Standby Power Management Panel, P310

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	2	C32624	PSEU 2 ALTN PWR

- 2) If the Maintenance Messages have been cleared then they can be considered a nuisance message with the mitigating resolution of cycling power.
- 3) If the Maintenance Messages have not been cleared then do these task:
Proximity Sensor Electronics Unit Removal, AMM TASK 32-08-01-000-801,
Proximity Sensor Electronics Unit Installation, AMM TASK 32-08-01-400-801.
- (h) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

A70. CMCF Output on Left AIMS Backplane Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-18881.

B. Fault Isolation Procedure

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (1) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- (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.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (2) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

- (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.

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (3) Replace the CPM/Comm(M001) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM
TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM
TASK 31-41-04-400-802.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (4) Replace the IOM(M003) module in the left AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,

Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— END OF TASK —————

A71. CMCF Output on Right AIMS Backplane Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-18882.

B. Fault Isolation Procedure

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (1) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
 - (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.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (2) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - (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.

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (3) Replace the CPM/Comm(M001) module in the right AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM TASK 31-41-04-400-802.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (4) Replace the IOM(M003) module in the right AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,

Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

ARO ALL

————— **END OF TASK** —————

A72. CMCF No Input from LRU on System ARINC 629 Bus (left) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19506, 45-19508, 45-19800, 45-19802, 45-19804, 45-19822, 45-19824, 45-19835, 45-19838, 45-19841, 45-19858, 45-19859, 45-19860, 45-19861, 45-19883, 45-19885, 45-19919, 45-19921, 45-19923, 45-19938, 45-19940, 45-19945, 45-19947, 45-19949, 45-19951, 45-19960, 45-19962.

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B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the ACIPS Control Card (center), (left), or (right), look in 30 Airfoil Cowl Ice Protection System.
 - (b) For the Air Supply Cabin Pressure Controller (L) or (R), look in 36 Air Supply and Cabin Pressure Controller.
 - (c) For the Auxiliary Generator Control Unit (AGCU), look in 24 Main AC Electrical Power Generation System.
 - (d) For the Brake System Control Unit, look in 32 Antiskid/Autobrake Control System.
 - (e) For the Bus Power Control Unit (BPCU), look in 24 Main AC Electrical Power Generation System.
 - (f) For the Control Display Unit (Center), (Left), or (Right), look in 34 AIMS - Flight Management Computing System.
 - (g) For the Converter, look in 24 Backup (VSCF) Electric Power System (BEPS).
 - (h) For the ECSMC (left) or (right), look in 21 Environmental Control System.
 - (i) For the ELMS P110 Electronics Unit, look in 24 ELMS P110 Power Management Panel.
 - (j) For the ELMS P210 Electronics Unit, look in 24 ELMS P210 Power Management Panel.
 - (k) For the ELMS P310 Electronics Unit, look in 24 ELMS P310 Power Management Panel.
 - (l) For the Generator Control Unit (L) or (R), look in 24 Main AC Electrical Power Generation System.
 - (m) For the Hydraulic Interface Module (HYDIM)(CL), (CR), (L), or (R), look in 29 Hydraulic System.
 - (n) For the Overhead Panel Bus Controller (L) or (R), look in 23 Overhead Panel ARINC 629 System.
 - (o) For the Weight-On-Wheels Card (left) or (right), look in 32 Air/Ground System.
 - (p) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable LRU has no output on the System ARINC 629 Bus (left) or on any bus.
 - 2) The applicable LRU has an ARINC 629 bus fault.
 - (q) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (r) If none of the maintenance messages given above show in Existing Faults, then continue.
 - (s) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (t) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.

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- (u) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
 - (v) Look in the applicable ATA system for these types of maintenance messages:
 - 1) IOM(M009) has an ARINC 629 fault on the System ARINC 629 Bus (left).
 - 2) IOM(M009) has no output on the AIMS backplane.
 - (w) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (x) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do this AIMS module reset:
- (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
- (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— END OF TASK —————

A73. CMCF No Input from LRU on System ARINC 629 Bus (right) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19507, 45-19509, 45-19531, 45-19532, 45-19533, 45-19801, 45-19803, 45-19805, 45-19823, 45-19825, 45-19836, 45-19839, 45-19842, 45-19862, 45-19884, 45-19886, 45-19920, 45-19922, 45-19924, 45-19939, 45-19941, 45-19946, 45-19948, 45-19950, 45-19952, 45-19961, 45-19963.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the ACIPS Control Card (center), (left), or (right), look in 30 Airfoil Cowl Ice Protection System.
 - (b) For the Air Supply Cabin Pressure Controller (L) or (R), look in 36 Air Supply and Cabin Pressure Controller.
 - (c) For the Auxiliary Generator Control Unit (AGCU), look in 24 Main AC Electrical Power Generation System.
 - (d) For the Brake System Control Unit, look in 32 Antiskid/Autobrake Control System.
 - (e) For the Bus Power Control Unit (BPCU), look in 24 Main AC Electrical Power Generation System.
 - (f) For the Control Display Unit (Center), (Left), or (Right), look in 34 AIMS - Flight Management Computing System.
 - (g) For the Converter, look in 24 Backup (VSCF) Electric Power System (BEPS).
 - (h) For the ECSMC (left) or (right), look in 21 Environmental Control System.

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- (i) For the ELMS P110 Electronics Unit, look in 24 ELMS P110 Power Management Panel.
- (j) For the ELMS P210 Electronics Unit, look in 24 ELMS P210 Power Management Panel.
- (k) For the ELMS P310 Electronics Unit, look in 24 ELMS P310 Power Management Panel.
- (l) For the Generator Control Unit (L) or (R), look in 24 Main AC Electrical Power Generation System.
- (m) For the Hydraulic Interface Module (HYDIM)(CL), (CR), (L), or (R), look in 29 Hydraulic System.
- (n) For the Overhead Panel Bus Controller (L) or (R), look in 23 Overhead Panel ARINC 629 System.
- (o) For the Weight-On-Wheels Card (left) or (right), look in 32 Air/Ground System.
- (p) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable LRU has no output on the System ARINC 629 Bus (right) or on any bus.
 - 2) The applicable LRU has an ARINC 629 bus fault.
- (q) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (r) If none of the maintenance messages given above show in Existing Faults, then continue.
- (s) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (t) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
- (u) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
- (v) Look in the applicable ATA system for these types of maintenance messages:
 - 1) IOM(M004) has an ARINC 629 fault on the System ARINC 629 Bus (left).
 - 2) IOM(M004) has no output on the AIMS backplane.
- (w) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (x) If none of the maintenance messages given above show in Existing Faults, then continue.

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- (2) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— END OF TASK —————

A75. CMCF No Input from Electronic ENG Control (FADEC) - Fault Isolation

A. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the Electronic ENG Control (FADEC)(L Eng, ch A or ch B), look in ATA system 71 - 80 Left Engine
 - (b) For the Electronic ENG Control (FADEC)(R Eng, ch A or ch B), look in ATA system 71 - 80 Right Engine
 - (c) Look in the applicable ATA system for these types of maintenance messages:
 - 1) Electronic engine control (FADEC) backup power is not available
 - 2) Communication Path between EEC and Systems bus is failed.
 - 3) Electronic engine control (FADEC) output bus signals to EDIU are not available.
 - 4) The engine data interface unit (EDIU) is not connected correctly to an systems ARINC 629 bus.
 - 5) The engine data interface unit (EDIU) has an ARINC 629 fault.
 - 6) An ARINC 629 bus is not available.
 - 7) The engine data interface unit (EDIU) has no output on an ARINC 629 bus.
 - 8) The engine data interface unit (EDIU) has no output on any bus.
 - (d) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (e) If none of the maintenance messages given above show in Existing Faults, then continue.
 - (f) In the list below, find the AIMS module and the system ARINC 629 bus.

MAINT MESSAGE	AIMS MODULE	SYSTEM ARINC 629 BUS
45-19525	IOM(M009)	left
45-19526	IOM(M009)	left

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MAINT MESSAGE	AIMS MODULE	SYSTEM ARINC 629 BUS
45-19527	IOM(M004)	right
45-19528	IOM(M004)	right

- (g) Look in ATA system 23 ARINC 629 Communication System for these types of maintenance messages:
 - 1) The applicable system ARINC 629 bus is failed.
 - 2) The center 1 or center 2 system ARINC 629 bus is failed.
- (h) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (i) If none of the maintenance messages given above show in Existing Faults, then continue.
- (j) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (k) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
- (l) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
- (m) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable AIMS module has no output on the AIMS backplane.
 - 2) IOM(M003) or IOM(M008) has no output on the AIMS backplane.
 - 3) The applicable AIMS module has an ARINC 629 fault on the applicable system ARINC 629 bus.
 - 4) IOM(M003) has an ARINC 629 fault on the system ARINC 629 bus (center 2).
 - 5) IOM(M008) has an ARINC 629 fault on the system ARINC 629 bus (center 1).
 - 6) AIMS has no input from any LRU on the applicable ARINC 629 bus.
 - 7) AIMS has no input from any LRU on the center 1 or center 2 system ARINC 629 bus.
- (n) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.

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- (o) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do these ground tests on the MAT:
 - 1) 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.
 - a) On the MATA AIMS Main Menu, select Interface R_AIMS.
 - b) Select ONBOARD MAINTENANCE.

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- 3) 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
- 4) 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
- (b) If the right CMCF was in control when you looked at the display, do these ground tests on the MAT:
 - 1) 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.
 - a) On the MATA AIMS Main Menu, select Interface L_AIMS.
 - b) Select ONBOARD MAINTENANCE.

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- 3) 31 AIMS - Left AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
- 4) 31 AIMS - Left AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
- (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

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ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 4) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

- 4) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

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A77. CMCF No Input from Electronic ENG Control (FADEC) on System ARINC 629 Bus - Fault Isolation

A. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the Electronic ENG Control (FADEC) (L Eng, ch A or ch B), look in ATA system 71 - 80 Left Engine
 - (b) For the Electronic ENG Control (FADEC) (R Eng, ch A or ch B), look in ATA system 71 - 80 Right Engine
 - (c) Look in the applicable ATA system for this type of maintenance message:
 - 1) The applicable electronic engine control is not powered.
 - (d) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
- b) If the maintenance message shows, then continue.
- (e) If the maintenance message given above shows in Existing Faults, then continue.
- (f) In the list below, find the AIMS module and the system ARINC 629 bus.

MAINT MESSAGE	AIMS MODULE	SYSTEM ARINC 629 BUS
45-19899	IOM(M009)	left
45-19900	IOM(M003)	center 2
45-19901	IOM(M009)	left
45-19902	IOM(M008)	center 1
45-19903	IOM(M004)	right
45-19904	IOM(M008)	center 1
45-19905	IOM(M004)	right
45-19906	IOM(M003)	center 2

- (g) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (h) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
- (i) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
- (j) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable AIMS module has no output on the AIMS backplane.
 - 2) The applicable AIMS module has an ARINC 629 fault on the applicable System ARINC 629 Bus.
- (k) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (l) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
 - (c) Try again to do the ground test that caused the maintenance message.

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- 1) If the maintenance message does not show on the ground test display, you corrected the fault.
- 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A78. CMCF No Input from LRU (ADF-L, DME-L, GPS-L, VOR-L) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19807, 45-19881, 45-19997.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the ADF Receiver (left), look in this ATA system: 34 Automatic Direction Finder (ADF) System.
 - (b) For the DME Interrogator (left), look in this ATA system: 34 Distance Measuring Equipment System.
 - (c) For the GPS Sensor Unit (left), look in this ATA system: 34 Global Positioning System.
 - (d) For the VOR/MB Receiver (left), look in this ATA system: 34 VOR / Marker Beacon System.
 - (e) Look in the applicable ATA system for this type of maintenance message:
 - 1) The applicable LRU has no output on any bus.
 - (f) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (g) If the maintenance message given above does not show in Existing Faults, then continue.
 - (h) In the list below, find the left AIMS input bus and the right AIMS input bus for the applicable maintenance message.

MAINT MESSAGE	LEFT AIMS INPUT BUS	RIGHT AIMS INPUT BUS
45-19807	ADF-L Bearing #1 Bus (429)	ADF-L Bearing #2 Bus (429)
45-19881	DME-L Distance Data #1 Bus (429)	DME-L Distance Data #2 Bus (429)
45-19936	GPS-L Data Bus 1	GPS-L Data Bus 2
45-19997	VOR-L Omnibearing #1 Bus	VOR-L Omnibearing #2 Bus

- (i) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (j) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) IOM(M008) or IOM(M009) in the left AIMS has an ARINC 429 input fault on the applicable left AIMS input bus.
 - 2) IOM(M008) or IOM(M009) in the left AIMS has no output on the AIMS backplane.

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- 3) The left AIMS has no input from the applicable LRU on the applicable left AIMS input bus.
 - (k) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M008) or IOM(M009) in the right AIMS has an ARINC 429 input fault on the applicable right AIMS input bus.
 - 2) IOM(M008) or IOM(M009) in the right AIMS has no output on the AIMS backplane.
 - 3) The right AIMS has no input from the applicable LRU on the applicable right AIMS input bus.
 - (l) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (m) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
- (a) If the left CMCF was in control when you looked at the display, do these ground tests on the MAT:
 - 1) 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 2) 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - (b) If the right CMCF was in control when you looked at the display, do these ground tests on the MAT:
 - 1) 31 AIMS - Right AIMS, System Test, IOM(M008) in Right AIMS Module Reset.
 - 2) 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
- (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A79. CMCF No Input from LRU (ADF-R, DME-R, GPS-R, VOR-R) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19808, 45-19882, 45-19998.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the ADF Receiver (right), look in this ATA system: 34 Automatic Direction Finder (ADF) System.
 - (b) For the DME Interrogator (right), look in this ATA system: 34 Distance Measuring Equipment System.
 - (c) For the GPS Sensor Unit (right), look in this ATA system: 34 Global Positioning System.

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- (d) For the VOR/MB Receiver (right), look in this ATA system: 34 VOR / Marker Beacon System.
- (e) Look in the applicable ATA system for this type of maintenance message:
 - 1) The applicable LRU has no output on any bus.
- (f) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (g) If the maintenance message given above does not show in Existing Faults, then continue.
- (h) In the list below, find the left AIMS input bus and the right AIMS input bus for the applicable maintenance message.

MAINT MESSAGE	LEFT AIMS INPUT BUS	RIGHT AIMS INPUT BUS
45-19808	ADF-R Bearing #1 Bus (429)	ADF-R Bearing #2 Bus (429)
45-19882	DME-R Distance Data #1 Bus (429)	DME-R Distance Data #2 Bus (429)
45-19937	GPS-R Data Bus 1	GPS-R Data Bus 2
45-19998	VOR-R Omnibearing #1 Bus	VOR-R Omnibearing #2 Bus

- (i) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (j) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) IOM(M003) or IOM(M004) in the left AIMS has an ARINC 429 input fault on the applicable left AIMS input bus.
 - 2) IOM(M003) or IOM(M004) in the left AIMS has no output on the AIMS backplane.
 - 3) The left AIMS has no input from the applicable LRU on the applicable left AIMS input bus.
- (k) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M003) or IOM(M004) in the right AIMS has an ARINC 429 input fault on the applicable right AIMS input bus.
 - 2) IOM(M003) or IOM(M004) in the right AIMS has no output on the AIMS backplane.
 - 3) The right AIMS has no input from the applicable LRU on the applicable right AIMS input bus.
- (l) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.

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- 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (m) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) If the left CMCF was in control when you looked at the display, do these ground tests on the MAT:

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.
 - a) On the MATA AIMS Main Menu, select Interface R_AIMS.
 - b) Select ONBOARD MAINTENANCE.

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- 2) 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
- 3) 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
- (b) If the right CMCF was in control when you looked at the display, do these ground tests on the MAT:

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.
 - a) On the MATA AIMS Main Menu, select Interface L_AIMS.
 - b) Select ONBOARD MAINTENANCE.

ARO ALL

- 2) 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
- 3) 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
- (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

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ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- 4) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
- 4) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

ARO ALL

————— END OF TASK —————

A80. CMCF No Input from ILS Receiver (Left) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-19954.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 34 Instrument Landing System for these types of maintenance messages:
 - 1) The ILS receiver (left) has no output on the ILS Output 2 Bus (429).
 - 2) The ILS receiver (left) has no output on any bus.
 - (b) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
- b) If the maintenance message shows, then continue.
- (c) If none of the maintenance messages given above show in Existing Faults, then continue.
- (d) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (e) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) IOM(M003) or IOM(M004) in the left AIMS has an ARINC 429 input fault on the ILS-L Output #2 Bus (429).
 - 2) IOM(M003) or IOM(M004) in the left AIMS has no output on the AIMS backplane.
 - 3) The left AIMS has no input from the ILS receiver (left) on the ILS-L Output #2 Bus (429).
- (f) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M009) in the right AIMS has an ARINC 429 input fault on the ILS-L Output #2 Bus (429).
 - 2) IOM(M009) in the right AIMS has no output on the AIMS backplane.
 - 3) The right AIMS has no input from the ILS receiver (left) on the ILS-L Output #2 Bus (429).
- (g) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (h) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) If the left CMCF was in control when you looked at the display, do these ground tests on the MAT:

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.
 - a) On the MATA AIMS Main Menu, select Interface R_AIMS.
 - b) Select ONBOARD MAINTENANCE.

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- 2) 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
- 3) 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
- (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT:
 - 1) 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
- (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.
NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.
- 4) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

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- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A81. CMCF No Input from ILS Receiver (Right) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-19955.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 34 Instrument Landing System for these types of maintenance messages:
 - 1) The ILS receiver (right) has no output on the ILS Output 2 Bus (429).
 - 2) The ILS receiver (right) has no output on any bus.
 - (b) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (c) If none of the maintenance messages given above show in Existing Faults, then continue.
 - (d) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (e) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) IOM(M008) in the left AIMS has an ARINC 429 input fault on the ILS-R Output #2 Bus (429).
 - 2) IOM(M008) in the left AIMS has no output on the AIMS backplane.
 - 3) The left AIMS has no input from the ILS receiver (right) on the ILS-R Output #2 Bus (429).
 - (f) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M003) or IOM(M004) in the right AIMS has an ARINC 429 input fault on the ILS-R Output #2 Bus (429).
 - 2) IOM(M003) or IOM(M004) in the right AIMS has no output on the AIMS backplane.
 - 3) The right AIMS has no input from the ILS receiver (right) on the ILS-R Output #2 Bus (429).
 - (g) If one of the maintenance messages given above shows in Existing Faults, then do these steps:

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- 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
- 2) Do the specified task for the maintenance message.
- 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (h) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT:
 - 1) 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - (b) If the right CMCF was in control when you looked at the display, do these ground tests on the MAT:

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.
 - a) On the MATA AIMS Main Menu, select Interface L_AIMS.
 - b) Select ONBOARD MAINTENANCE.

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- 2) 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
- 3) 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
- (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
- 4) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

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A82. CMCF No Input from Satellite Data Unit (Left) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-19985.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 23 Satellite Communications (SATCOM) System for this type of maintenance message:
 - 1) The satellite data unit (left) has no output on the CFDS Out Bus (429).
NOTE: CFDS (centralized fault display system) is an ARINC 741 acronym for CMCS (central maintenance computing system).
 - (b) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.

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- (c) If the maintenance message given above shows in Existing Faults, then continue.
 - (d) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (e) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) IOM(M003) in the left AIMS has an ARINC 429 input fault on the SDU-L CFDS Bus (429).
 - 2) IOM(M003) in the left AIMS has no output on the AIMS backplane.
 - 3) The left AIMS has no input from the satellite data unit (left) on the SDU-L CFDS Bus (429).
 - (f) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M004) in the right AIMS has an ARINC 429 input fault on the SDU-L CFDS Bus (429).
 - 2) IOM(M004) in the right AIMS has no output on the AIMS backplane.
 - 3) The right AIMS has no input from the satellite data unit (left) on the SDU-L CFDS Bus (429).
 - (g) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (h) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do this AIMS module reset:

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Select ONBOARD MAINTENANCE.

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- (b) If the left CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- (c) If the right CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - (d) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.
NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.
- 4) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

ARO ALL

- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A84. CMCF No Input from LRU (WHCU, GPWC, HF, Printer, RA-C, or VHF) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19504, 45-19505, 45-19942, 45-19943, 45-19944, 45-19975, 45-19976, 45-19994, 45-19995, 45-19996.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the Ground Proximity Warning Computer, look in this ATA system: 34 Ground Proximity Warning System.
 - (b) For the HF Communication Transceiver (left) or (right), look in this ATA system: 23 HF Communication System.
 - (c) For the Printer, look in this ATA system: 31 Printer.
 - (d) For the Radio Altimeter Transceiver (center), look in this ATA system: 34 Radio Altimeter System.
 - (e) For the VHF Communication Transceiver (center), (left), or (right), look in this ATA system: 23 VHF Communication System.
 - (f) For the Window Heat Control Unit (L Fwd & R Side) or (R Fwd & L Side), look in this ATA system: 30 Window Heat Control System.
 - (g) In the list below, find the LRU output bus, the AIMS module or modules, and the AIMS input bus for the applicable maintenance message.

MAINT MESSAGE	LRU OUTPUT BUS	AIMS MODULE	AIMS INPUT BUS
45-19504	Window Heat System Output ARINC 429 Bus	IOM(M009)	Window Heat System-L Output Bus
45-19505	Window Heat System Output ARINC 429 Bus	IOM(M004)	Window Heat System-R Output Bus
45-19942	GPWC Output ARINC 429 Bus	IOM(M003) IOM(M004)	GPWC CMC Input Bus (429)
45-19943	CMC Output Bus (429)	IOM(M009)	HF-L CMC Report Bus (429)
45-19944	CMC Output Bus (429)	IOM(M004)	HF-R CMC Report Bus (429)
45-19975	Printer Output Bus (429)	IOM(M009)	Printer Output Bus (429)
45-19976	Bus 1 (429)	IOM(M003) IOM(M004)	RA-C Altitude #1 Bus (429)
45-19994	CMC Output Bus (429)	IOM(M008)	VHF-C CMC Input Bus (429)
45-19995	CMC Output Bus (429)	IOM(M009)	VHF-L CMC Input Bus (429)
45-19996	CMC Output Bus (429)	IOM(M004)	VHF-R CMC Input Bus (429)

- (h) Look in the applicable ATA system for this type of maintenance message:
 - 1) The applicable LRU has no output on the applicable LRU output bus.
- (i) If the maintenance message given above shows in Existing Faults, then do these steps:

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- 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
- 2) Do the specified task for the maintenance message.
- 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (j) If the maintenance message given above does not show in Existing Faults, then continue.
- (k) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (l) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
- (m) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
- (n) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable AIMS module has an ARINC 429 input fault on the applicable AIMS input bus.
 - 2) The applicable AIMS module has no output on the AIMS backplane.
 - 3) The left or the right AIMS has no input from the applicable LRU on the applicable AIMS input bus.
- (o) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (p) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
 - (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

ARO ALL

- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

ARO ALL

- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A85. CMCF No Input from LRU (WXR, ATC, ILS-C, RA-L, RA-R, or TCAS) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19510, 45-19511, 45-19826, 45-19827, 45-19953, 45-19977, 45-19978, 45-19990.

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B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the ATC/Mode S Transponder (left) or (right), look in this ATA system: 34 Air Traffic Control (ATC) Mode S System.
 - (b) For the ILS Receiver (center), look in this ATA system: 34 Instrument Landing System.
 - (c) For the Radio Altimeter Transceiver (left) or (right), look in this ATA system: 34 Radio Altimeter System.
 - (d) For the TCAS Computer, look in this ATA system: 34 Traffic Alert and Collision Avoidance System.
 - (e) For the WXR Transceiver (left) or (right), look in this ATA system: 34 Weather Radar System.
 - (f) In the list below, find the LRU output bus, the AIMS module or modules, and the AIMS input bus for the applicable maintenance message.

MAINT MESSAGE	LRU OUTPUT BUS	AIMS MODULE	AIMS INPUT BUS
45-19510	WXR Maint Data In ARINC 429 Bus	IOM(M009)	WXR-L RT Maint. Bus (429)
45-19511	WXR RT Maint ARINC 429 Bus	IOM(M004)	WXR-R RT Maint. Bus (429)
45-19826	CMC Output ARINC 429 Bus	IOM(M009)	ATC-L CMC Bus (429)
45-19827	CMC Output ARINC 429 Bus	IOM(M004)	ATC-R CMC Bus (429)
45-19953	ILS Output 2 Bus (429)	IOM(M008) IOM(M009)	ILS-C Output #2 Bus (429)
45-19977	Bus 1 (429)	IOM(M003) IOM(M004)	RA-L Altitude #1 Bus (429)
45-19978	Bus 1 (429)	IOM(M008) IOM(M009)	RA-R Altitude #1 Bus (429)
45-19990	CMC Out Bus (429)	IOM(M009)	TCAS CMCS Bus (429)

- (g) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable LRU has no output on the applicable LRU output bus.
 - 2) The applicable LRU has no output on any bus.
- (h) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (i) If none of the maintenance messages given above show in Existing Faults, then continue.
- (j) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)

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- (k) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
 - (l) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
 - (m) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable AIMS module has an ARINC 429 input fault on the applicable AIMS input bus.
 - 2) The applicable AIMS module has no output on the AIMS backplane.
 - 3) The left or the right AIMS has no input from the applicable LRU on the applicable AIMS input bus.
 - (n) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (o) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do this AIMS module reset:
- (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
 - (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
- (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A86. CMCF No Input from MMR - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19774, 45-19775, 45-19776.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 34 Instrument Landing System for this type of maintenance message:
 - 1) The applicable multi-mode receiver has no output on the ILS Output 2 Bus (429).
 - (b) Look in ATA system 34 Multi-Mode Receiver System for this type of maintenance message:
 - 1) The applicable multi-mode receiver has no output on any bus.
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.

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- 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (d) If the maintenance messages given above do not show in Existing Faults, then continue.
- (e) In the list below, find the AIMS module or modules for the applicable maintenance message.

MAINT MESSAGE	AIMS MODULES IN LEFT AIMS	AIMS MODULES IN RIGHT AIMS
45-19774	IOM(M008) or IOM(M009)	IOM(M008) or IOM(M009)
45-19775	IOM(M003) or IOM(M004)	IOM(M009)
45-19776	IOM(M008)	IOM(M003) or IOM(M004)

- (f) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (g) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) The applicable AIMS module in left AIMS has an ARINC 429 input fault on the ILS (-C, -L, or -R) output #2 bus.
 - 2) The applicable AIMS module in left AIMS has no output on the AIMS backplane.
 - 3) The left AIMS has no input from the multi-mode receiver (center, left, or right) on the ILS (-C, -L, or -R) output #2 bus.
- (h) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) The applicable AIMS module in right AIMS has an ARINC 429 input fault on the ILS (-C, -L, or -R) output #2 bus.
 - 2) The applicable AIMS module in right AIMS has no output on the AIMS backplane.
 - 3) The right AIMS has no input from the multi-mode receiver (center, left, or right) on the ILS (-C, -L, or -R) output #2 bus.
- (i) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (j) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.

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- (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
- (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A87. CMCF No Input from LRU (AFDC, PSEU, or WEU) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19500, 45-19501, 45-19502, 45-19503, 45-19811, 45-19812, 45-19813, 45-19965, 45-19966, 45-19967, 45-19968.

B. Fault Isolation Procedure

- (1) In the list below, find the LRU, the systems ARINC 629 bus, and the AIMS module for the applicable maintenance message.

MAINT MESSAGE	LRU	SYSTEMS ARINC 629 BUS	AIMS MODULE
45-19500	Warning Electronic Unit (left)	left	IOM(M009)
45-19501	Warning Electronic Unit (left)	center 1	IOM(M008)
45-19502	Warning Electronic Unit (right)	right	IOM(M004)
45-19503	Warning Electronic Unit (right)	center 1	IOM(M008)
45-19811	Autopilot Flight Director Computer (Center)	center 1	IOM(M008)
45-19812	Autopilot Flight Director Computer (Left)	left	IOM(M009)
45-19813	Autopilot Flight Director Computer (Right)	right	IOM(M004)
45-19965	PSEU 1	left	IOM(M009)
45-19966	PSEU 1	right	IOM(M004)
45-19967	PSEU 2	left	IOM(M009)
45-19968	PSEU 2	right	IOM(M004)

- (2) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the warning electronic unit (left) or (right), look in this ATA system: 31 Warning Electronic System.
 - (b) For the autopilot flight director computer (center), (left), or (right), look in this ATA system: 22 Autopilot Flight Director System.
 - (c) For the PSEU 1 or PSEU 2, look in this ATA system: 32 Proximity Sensor System (PSS).
 - (d) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable LRU has no output on the applicable system ARINC 629 bus.
 - 2) The applicable LRU has no output on any bus.
 - (e) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

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- b) If the maintenance message shows, then continue.
- (f) If none of the maintenance messages given above show in Existing Faults, then continue.
- (g) Look in ATA system 23 ARINC 629 Communication System for this type of maintenance message:
 - 1) The applicable system ARINC 629 bus is failed.
- (h) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (i) If the maintenance message given above does not show in Existing Faults, then continue.
- (j) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (k) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
- (l) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
- (m) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable AIMS module has an ARINC 629 fault on the applicable system ARINC 629 bus.
 - 2) The applicable AIMS module has no output on the AIMS backplane.
 - 3) AIMS has no input from the applicable LRU on the applicable system ARINC 629 bus.
 - 4) AIMS has no input from any LRU on the applicable system ARINC 629 bus.
- (n) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (o) If none of the maintenance messages given above show in Existing Faults, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (4) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS module: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
- (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS module: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A89. CMCF No Input from LRU (ADM or PFC) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19828, 45-19830, 45-19832.

B. Fault Isolation Procedure

- (1) In the list below, find the LRU, the systems ARINC 629 bus, and the AIMS-L and AIMS-R module or modules for the applicable maintenance message.

MAINT MESSAGE	LRU	FLIGHT CONTROLS ARINC 629 BUS	AIMS-L MODULE	AIMS-R MODULE
45-19828	Air Data Module (center pitot)	center	IOM(M003)	IOM(M008)
45-19830	Air Data Module (left pitot)	left	IOM(M008) IOM(M009)	IOM(M009)
45-19832	Air Data Module (right pitot)	right	IOM(M004)	IOM(M003) IOM(M004)
45-19972	Primary Flight Computer (center)	center	IOM(M003)	IOM(M008)
45-19973	Primary Flight Computer (left)	left	IOM(M008) IOM(M009)	IOM(M009)
45-19974	Primary Flight Computer (right)	right	IOM(M004)	IOM(M003) IOM(M004)

- (2) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the air data module (left pitot), (right pitot), or (center pitot), look in this ATA system: 34 Air Data Inertial Reference System.
 - (b) For the primary flight computer (center), (left), or (right), look in this ATA system: 27 Primary Flight Control System.
 - (c) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable LRU has no output on the applicable flight controls ARINC 629 bus.
 - 2) The applicable LRU has an ARINC 629 fault.
 - (d) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
- b) If the maintenance message shows, then continue.
- (e) If none of the maintenance messages given above show in Existing Faults, then continue.
- (f) Look in ATA system 23 ARINC 629 Communication System for this type of maintenance message:
 - 1) The applicable flight controls ARINC 629 bus is failed.
- (g) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (h) If the maintenance message given above does not show in Existing Faults, then continue.
- (i) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (j) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) The applicable AIMS-L module has an ARINC 629 fault on the applicable flight controls ARINC 629 bus.
 - 2) The applicable AIMS-L module has no output on the AIMS backplane.
 - 3) The left AIMS has no input from the applicable LRU on the applicable flight controls ARINC 629 bus.
 - 4) The left AIMS has no input from any LRU on the applicable flight controls ARINC 629 bus.
- (k) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) The applicable AIMS-R module has an ARINC 629 fault on the applicable flight controls ARINC 629 bus.
 - 2) The applicable AIMS-R module has no output on the AIMS backplane.
 - 3) The right AIMS has no input from the applicable LRU on the applicable flight controls ARINC 629 bus.
 - 4) The right AIMS has no input from any LRU on the applicable flight controls ARINC 629 bus.
- (l) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
- b) If the maintenance message shows, then continue.
- (m) If none of the maintenance messages given above show in Existing Faults, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (4) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS-L module: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS-R module: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A90. CMCF No Input from PFC - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19571, 45-19572, 45-19573, 45-19574, 45-19575, 45-19576, 45-19577, 45-19578, 45-19579.

B. Fault Isolation Procedure

- (1) In the list below, find the primary flight computer (PFC), the PFC lane, the systems ARINC 629 bus, and the AIMS-L and AIMS-R module or modules for the applicable maintenance message.

MAINT MESSAGE	PRIMARY FLIGHT COMPUTER (PFC)	LANE	FLIGHT CONTROLS ARINC 629 BUS	AIMS-L MODULE	AIMS-R MODULE
45-19571	center	lane 1	center	IOM(M003)	IOM(M008)
45-19572	center	lane 2	center	IOM(M003)	IOM(M008)
45-19573	center	lane 3	center	IOM(M003)	IOM(M008)
45-19974	left	lane 1	left	IOM(M008) IOM(M009)	IOM(M009)
45-19975	left	lane 2	left	IOM(M008) IOM(M009)	IOM(M009)
45-19976	left	lane 3	left	IOM(M008) IOM(M009)	IOM(M009)
45-19977	right	lane 1	right	IOM(M004)	IOM(M003) IOM(M004)
45-19978	right	lane 2	right	IOM(M004)	IOM(M003) IOM(M004)
45-19979	right	lane 3	right	IOM(M004)	IOM(M003) IOM(M004)

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- (2) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 27 Primary Flight Control System for these types of maintenance messages:
 - 1) The applicable PFC has no output on the applicable flight controls ARINC 629 bus.
 - 2) The applicable lane of the applicable PFC has an ARINC 629 fault.
 - 3) The applicable lane of the applicable PFC has an ARINC 629 fault on the applicable flight controls ARINC 629 bus.
 - (b) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (c) If none of the maintenance messages given above show in Existing Faults, then continue.
 - (d) Look in ATA system 23 ARINC 629 Communication System for this type of maintenance message:
 - 1) The applicable flight controls ARINC 629 bus is failed.
 - (e) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (f) If the maintenance message given above does not show in Existing Faults, then continue.
 - (g) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (h) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) The applicable AIMS-L module has an ARINC 629 fault on the applicable flight controls ARINC 629 bus.
 - 2) The applicable AIMS-L module has no output on the AIMS backplane.
 - 3) The left AIMS has no input from the applicable PFC on the applicable flight controls ARINC 629 bus.
 - 4) The left AIMS has no input from any LRU on the applicable flight controls ARINC 629 bus.

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- (i) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) The applicable AIMS-R module has an ARINC 629 fault on the applicable flight controls ARINC 629 bus.
 - 2) The applicable AIMS-R module has no output on the AIMS backplane.
 - 3) The right AIMS has no input from the applicable PFC on the applicable flight controls ARINC 629 bus.
 - 4) The right AIMS has no input from any LRU on the applicable flight controls ARINC 629 bus.
 - (j) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (k) If none of the maintenance messages given above show in Existing Faults, then continue.
- (3) Do this AIMS module reset:
- (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.

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- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (4) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS-L module: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS-R module: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A91. CMCF No Input from LRU (AMU, BTMU, or PA/CIC) - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19834, 45-19840, 45-19964.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) For the audio management unit, look in this ATA system: 23 Digital Control Audio System.
 - (b) For the brake temperature monitor unit, look in this ATA system: 32 Brake Temperature Monitor System.

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- (c) For the passenger address/cabin interphone controller, look in this ATA system: 23 Cabin Management System.
- (d) Look in the applicable ATA system for this type of maintenance message:
 - 1) The applicable LRU has no output on the system ARINC 629 bus (left).
- (e) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (f) If the maintenance messages given above do not show in Existing Faults, then continue.
- (g) Look in ATA system 23 ARINC 629 Communication System for this type of maintenance message:
 - 1) The system ARINC 629 bus (left) is failed.
- (h) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (i) If the maintenance message given above does not show in Existing Faults, then continue.
- (j) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (k) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
- (l) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
- (m) Look in the applicable ATA system for these types of maintenance messages:
 - 1) IOM(M009) has an ARINC 629 fault on the system ARINC 629 bus (left).
 - 2) IOM(M009) has no output on the AIMS backplane.
 - 3) AIMS has no input from the applicable LRU on the system ARINC 629 bus (left).
 - 4) AIMS has no input from any LRU on the system ARINC 629 bus (left).
- (n) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

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- b) If the maintenance message shows, then continue.
- (o) If none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (3) Do this AIMS module reset:
- (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M009) in Left AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M009) in Right AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A92. CMCF No Input from Cabin Temperature Controller - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19847, 45-19848, 45-19849, 45-19850.

B. Fault Isolation Procedure

- (1) In the list below, find the LRU, the systems ARINC 629 bus, and the AIMS module for the applicable maintenance message.

MAINT MESSAGE	LRU	SYSTEMS ARINC 629 BUS	AIMS MODULE
45-19847	Cabin Temperature Controller (left)	left	IOM(M009)
45-19848	Cabin Temperature Controller (left)	right	IOM(M004)
45-19849	Cabin Temperature Controller (right)	right	IOM(M004)
45-19850	Cabin Temperature Controller (right)	left	IOM(M009)

- (2) Look at the Extended Maintenance, Existing Faults display on the MAT.
- (a) Look in ATA system 21 Cabin Temperature Control System for these types of maintenance messages:
 - 1) The applicable LRU has no output on the applicable system ARINC 629 bus.
 - 2) The applicable LRU has no output on any bus.
 - 3) The applicable LRU has an ARINC 629 fault.
 - (b) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

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- b) If the maintenance message shows, then continue.
- (c) If none of the maintenance messages given above show in Existing Faults, then continue.
- (d) Look in ATA system 23 ARINC 629 Communication System for this type of maintenance message:
 - 1) The applicable system ARINC 629 bus is failed.
- (e) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (f) If the maintenance message given above does not show in Existing Faults, then continue.
- (g) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (h) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
- (i) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
- (j) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable AIMS module has an ARINC 629 fault on the applicable system ARINC 629 bus.
 - 2) The applicable AIMS module has no output on the AIMS backplane.
 - 3) AIMS has no input from the applicable LRU on the applicable system ARINC 629 bus.
 - 4) AIMS has no input from any LRU on the applicable system ARINC 629 bus.
- (k) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (l) If none of the maintenance messages given above show in Existing Faults, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

ARO ALL

- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

ARO ALL

- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (4) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS module: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
- (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS module: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A93. CMCF No Input from Cargo Smoke Detector - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19854, 45-19855, 45-19856, 45-19857.

B. Fault Isolation Procedure

- (1) In the list below, find the LRU, the systems ARINC 629 bus, and the AIMS module for the applicable maintenance message.

MAINT MESSAGE	LRU	SYSTEMS ARINC 629 BUS	AIMS MODULE
45-19854	Cargo Smoke Detector (lwr aft)	left	IOM(M009)
45-19855	Cargo Smoke Detector (lwr fwd)	left	IOM(M009)
45-19856	Cargo Smoke Detector (lwr aft)	right	IOM(M004)
45-19857	Cargo Smoke Detector (lwr fwd)	right	IOM(M004)

- (2) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 26 Cargo Smoke Detection System for this type of maintenance message:
 - 1) The applicable cargo smoke detector has no output on any bus.
 - (b) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (c) If the maintenance message given above shows in Existing Faults, then continue.
 - (d) Look in ATA system 23 ARINC 629 Communication System for this type of maintenance message:
 - 1) The applicable system ARINC 629 bus is failed.
 - (e) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
- b) If the maintenance message shows, then continue.
- (f) If the maintenance message given above does not show in Existing Faults, then continue.
- (g) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (h) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
- (i) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
- (j) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable AIMS module has an ARINC 629 fault on the applicable system ARINC 629 bus.
 - 2) The applicable AIMS module has no output on the AIMS backplane.
 - 3) AIMS has no input from any LRU on the applicable system ARINC 629 bus.
- (k) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (l) If none of the maintenance messages given above show in Existing Faults, then continue.
- (3) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

ARO ALL

- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (4) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS module: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS module: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

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A95. CMCF No Input from Maintenance Access Terminal Display - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-19956.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT.
- (a) Look in ATA system 23 ARINC 636 Communication System for these types of maintenance messages:
- 1) The maintenance access terminal display has an ARINC 636 AVLAN fault.
 - 2) The maintenance access terminal display and the DCMF indicate an ARINC 636 Avlan fault (wrap condition).
 - 3) The central maintenance computing function has no input from the maintenance access terminal. The DCMF in the left and right AIMS indicate an ARINC 636 Avlan fault.
 - 4) The CPM/Comm(M001) has an ARINC 636 fault.
 - 5) The CMCF has no input from the maintenance access terminal display on the ARINC 636 AVLAN.
- (b) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
- 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test or special function that caused the maintenance message.
 - a) If the maintenance message does not show, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (c) If none of the maintenance messages given above show in Existing Faults, then continue.
- (d) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (e) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
- (f) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
- (g) Look in the applicable ATA system for this type of maintenance message:
- 1) The CPM/Comm(M001) has no output on the AIMS backplane.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) The IOM(M003) has no output on the AIMS backplane.

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- (h) If the maintenance message given above shows in Existing Faults, then do these steps:
- 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.
- b) If the maintenance message shows, then continue.
- (i) If the maintenance message given above does not show in Existing Faults, then continue.
- (2) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.

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- a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A97. CMCF No Input from Function in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19806, 45-19867, 45-19869, 45-19871, 45-19872, 45-19991.

B. Fault Isolation Procedure

- (1) Look for other maintenance messages on the Ground Test display on the MAT:
 - (a) If another maintenance message shows on the Ground Tests display, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (b) If other maintenance messages do not show on the ground test display, then continue.
- (2) Make sure the left AIMS cabinet is supplied with power:
 - (a) Make sure that these circuit breakers are closed:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

- (b) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Try to do the ground test again with the left CMCF in control:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The right CMCF is in control if this indication shows: This data is from Right CMCF.)
 - (b) If the right CMCF is in control, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218) OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.

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OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218 (Continued)**

- 2) Select ONBOARD MAINTENANCE.

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- (c) Try again to do the ground test that caused the maintenance message.
- (d) If another maintenance message shows on the ground test display, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A98. CMCF No Input from Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-19845.

B. Fault Isolation Procedure

- (1) If the maintenance message occurred during the IOM(M009) in Left AIMS Module Reset or the IOM(M004) in Left AIMS Module Reset, then do this first:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The right CMCF is in control if this indication shows: This data is from Right CMCF.)
 - (b) If the right CMCF is in control, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

**ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218)
OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218**

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO ALL

- (c) Do the IOM Reset again.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows on the ground test display, then continue.
- (2) Look for other maintenance messages on the ground test display on the MAT:
 - (a) If another maintenance message shows on the ground test display, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.

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- (b) If other maintenance messages do not show on the ground test display, then continue.
- (3) Make sure the left AIMS cabinet is supplied with power:
 - (a) Make sure that these circuit breakers are closed:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

- (b) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
- (4) Try to do the ground test again with the left CMCF in control:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The right CMCF is in control if this indication shows: This data is from Right CMCF.)
 - (b) If the right CMCF is in control, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218) OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

A99. CMCF No Input from Function in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19798, 45-19868, 45-19870, 45-19873, 45-19874, 45-19992.

B. Fault Isolation Procedure

- (1) Look for other maintenance messages on the ground test display on the MAT:
 - (a) If another maintenance message shows on the ground test display, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.

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- (b) If other maintenance messages do not show on the ground test display, then continue.
- (2) Make sure the right AIMS cabinet is supplied with power:
 - (a) Make sure that these circuit breakers are closed:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

- (b) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (3) Try to do the test again with the right CMCF in control:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF is in control, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218) OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (c) Try again to do the ground test that caused the maintenance message.
- (d) If another maintenance message shows on the ground test display, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— END OF TASK —————

B00. CMCF No Input from Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-19846.

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B. Fault Isolation Procedure

- (1) If the maintenance message occurred during the IOM(M009) in Right AIMS Module Reset or the IOM(M004) in Right AIMS Module Reset, then do this first:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF is in control, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218) OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (c) Do the IOM Reset again.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows on the ground test display, then continue.
- (2) Look for other maintenance messages on the ground test display on the MAT:
 - (a) If another maintenance message shows on the ground test display, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (b) If other maintenance messages do not show on the ground test display, then continue.
- (3) Make sure the right AIMS cabinet is supplied with power:
 - (a) Make sure that these circuit breakers are closed:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

- (b) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 2) If the maintenance message shows, then continue.
- (4) Try to do the test again with the right CMCF in control:

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- (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (b) If the left CMCF is in control, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218) OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

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- (c) Try again to do the ground test that caused the maintenance message.
 - 1) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B01. CMCF to Function in Left AIMS Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19603, 45-19654, 45-19656, 45-19663, 45-19665, 45-19745.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF is in control, look in the ATA system of the function named in the maintenance message for this type of maintenance message:
 - 1) Function in Left AIMS has no input from CMCF in Left AIMS on the AIMS Backplane.
 - (c) If the right CMCF is in control, look in the ATA system of the function named in the maintenance message for this type of maintenance message:
 - 1) Function in Left AIMS has no input from CMCF in Right AIMS on AIMS Intercabinet Buses (3) and (4).
 - (d) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M003) in Right AIMS has an ARINC 629 fault on AIMS Intercabinet Bus (4).
 - 2) IOM(M004) in Right AIMS has an ARINC 629 fault on AIMS Intercabinet Bus (3).
 - 3) IOM(M003) in Right AIMS has an internal fault.
 - 4) IOM(M004) in Right AIMS has an internal fault.
 - 5) IOM(M003) in Right AIMS has no output on the AIMS Backplane.
 - 6) IOM(M004) in Right AIMS has no output on the AIMS Backplane.
 - (e) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.

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- 2) Do the specified task for the maintenance message.
- 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B02. CMCF to Function in Right AIMS Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19598, 45-19655, 45-19657, 45-19664, 45-19666, 45-19746.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF is in control, look in the ATA system of the function named in the maintenance message for this type of maintenance message:
 - 1) Function in Right AIMS has no input from CMCF in Left AIMS on AIMS Intercabinet Buses (3) and (4).
 - (c) If the right CMCF is in control, look in the ATA system of the function named in the maintenance message for this type of maintenance message:
 - 1) Function in Right AIMS has no input from CMCF in Right AIMS on the AIMS Backplane.
 - (d) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) IOM(M004) in Left AIMS has an ARINC 629 fault on AIMS Intercabinet Bus (3).
 - 2) IOM(M008) in Left AIMS has an ARINC 629 fault on AIMS Intercabinet Bus (4).
 - 3) IOM(M004) in Left AIMS has an internal fault.
 - 4) IOM(M008) in Left AIMS has an internal fault.
 - 5) IOM(M004) in Left AIMS has no output on the AIMS Backplane.
 - 6) IOM(M008) in Left AIMS has no output on the AIMS Backplane.
 - (e) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

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B03. CMCF to CMCF in Left AIMS Connection Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in ATA system 45 AIMS - Central Maintenance Computing System for this type of maintenance message:
 - 1) CMCF Left AIMS has no input from CMCF in Right AIMS on AIMS Intercabinet Buses (3) and (4).
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M003) in Right AIMS has an ARINC 629 fault on AIMS Intercabinet Bus (4).
 - 2) IOM(M004) in Right AIMS has an ARINC 629 fault on AIMS Intercabinet Bus (3).
 - 3) IOM(M003) in Right AIMS has an internal fault.
 - 4) IOM(M004) in Right AIMS has an internal fault.
 - 5) IOM(M003) in Right AIMS has no output on the AIMS Backplane.
 - 6) IOM(M004) in Right AIMS has no output on the AIMS Backplane.
 - (c) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B04. CMCF to CMCF in Right AIMS Connection Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in ATA system 45 AIMS - Central Maintenance Computing System for this type of maintenance message:
 - 1) CMCF in Right AIMS has no input from CMCF in Left AIMS on AIMS Intercabinet ARINC 629 Buses (3) and (4).
 - (b) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) IOM(M004) in Left AIMS has an ARINC 629 fault on AIMS Intercabinet ARINC 629 Bus (3).
 - 2) IOM(M008) in Left AIMS has an ARINC 629 fault on AIMS Intercabinet ARINC 629 Bus (4).
 - 3) IOM(M004) in Left AIMS has an internal fault.
 - 4) IOM(M008) in Left AIMS has an internal fault.
 - 5) IOM(M004) in Left AIMS has no output on the AIMS Backplane.
 - 6) IOM(M008) in Left AIMS has no output on the AIMS Backplane.
 - (c) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.

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- 2) Do the specified task for the maintenance message.
- 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B05. CMCF to CPM/Comm(M001) in Left AIMS Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-19633.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in ATA system 31 AIMS - Left AIMS for this type of maintenance message:
 - 1) Left AIMS has no input from CMCF in Left AIMS on the AIMS Backplane.
 - 2) Left AIMS has no input from CMCF in Right AIMS on AIMS Intercabinet ARINC 629 Buses (3) and (4).
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M003) in Right AIMS has an ARINC 629 fault on AIMS Intercabinet ARINC 629 Bus (4).
 - 2) IOM(M004) in Right AIMS has an ARINC 629 fault on AIMS Intercabinet ARINC 629 Bus (3).
 - 3) IOM(M003) in Right AIMS has an internal fault.
 - 4) IOM(M004) in Right AIMS has an internal fault.
 - 5) IOM(M003) in Right AIMS has no output on the AIMS Backplane.
 - 6) IOM(M004) in Right AIMS has no output on the AIMS Backplane.
 - (c) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B06. CMCF to CPM/Comm(M001) in Right AIMS Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-19634.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in ATA system 31 AIMS - Right AIMS for this type of maintenance message:
 - 1) Right AIMS has no input from CMCF in Left AIMS on AIMS Intercabinet ARINC 629 Buses (3) and (4).

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- 2) Right AIMS has no input from CMCF in Right AIMS on the AIMS Backplane.
- (b) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) IOM(M004) in Left AIMS has an ARINC 629 fault on AIMS Intercabinet ARINC 629 Bus (3).
 - 2) IOM(M008) in Left AIMS has an ARINC 629 fault on AIMS Intercabinet ARINC 629 Bus (4).
 - 3) IOM(M004) in Left AIMS has an internal fault.
 - 4) IOM(M008) in Left AIMS has an internal fault.
 - 5) IOM(M004) in Left AIMS has no output on the AIMS Backplane.
 - 6) IOM(M008) in Left AIMS has no output on the AIMS Backplane.
- (c) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B07. CMCF Connection (ARINC 429 Left Bus) Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19604, 45-19612, 45-19661, 45-19700, 45-19705, 45-19712, 45-19729, 45-19731, 45-19736, 45-19737, 45-19744, 45-19751, 45-19753, 45-19761, 45-19772.

B. Fault Isolation Procedure

NOTE: If you use a megohmmeter to do wiring checks on an ARINC 429 bus (or if you need the exact resistance of the bus wiring), first remove all the LRUs that are connected to the bus (use the WDM to tell which LRUs are on the bus). Then re-install the LRUs when you are done.

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) For the multi-mode receiver, look in this ATA System: 34 Instrument Landing System.
 - (b) For other LRUs, look in the ATA System of the LRU named in the maintenance message.
 - (c) Look for this type of maintenance message:
 - 1) The LRU has no input from Left AIMS.
 - (d) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (e) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on the CMCS Left Bus (429).
 - 2) IOM(M009) in Left AIMS has an ARINC 429 output fault on CMCS Left Bus (429).
 - 3) IOM(M009) in Left AIMS has an internal fault.
 - 4) IOM(M009) in Left AIMS has no output on the AIMS Backplane.

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- (f) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M009) in Right AIMS has an ARINC 429 output fault on CMCS XCabinet Left Bus (429).
 - 2) IOM(M009) in Right AIMS has an internal fault.
 - 3) IOM(M009) in Right AIMS has no output on the AIMS Backplane.
- (g) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B08. CMCF Connection (ARINC 429 Right Bus) Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19605, 45-19613, 45-19662, 45-19701, 45-19706, 45-19713, 45-19732, 45-19752, 45-19754, 45-19762, 45-19773.

B. Fault Isolation Procedure

NOTE: If you use a megohmmeter to do wiring checks on an ARINC 429 bus (or if you need the exact resistance of the bus wiring), first remove all the LRUs that are connected to the bus (use the WDM to tell which LRUs are on the bus). Then re-install the LRUs when you are done.

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) For the multi-mode receiver, look in this ATA System: 34 Instrument Landing System.
 - (b) For other LRUs, look in the ATA System of the LRU named in the maintenance message.
 - (c) Look for this type of maintenance message:
 - 1) The LRU has no input from Left AIMS.
 - (d) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (e) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on the CMCS Right Bus (429).
 - 2) IOM(M004) in Left AIMS has an ARINC 429 output fault on CMCS Right Bus (429).
 - 3) IOM(M004) in Left AIMS has an internal fault.
 - 4) IOM(M004) in Left AIMS has no output on the AIMS Backplane.
 - (f) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M004) in Right AIMS has an ARINC 429 output fault on CMCS XCabinet Right Bus (429).
 - 2) IOM(M004) in Right AIMS has an internal fault.

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- 3) IOM(M004) in Right AIMS has no output on the AIMS Backplane.
- (g) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B09. CMCF Connection (ARINC 429 Center Bus) Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19704, 45-19711, 45-19730, 45-19771.

B. Fault Isolation Procedure

NOTE: If you use a megohmmeter to do wiring checks on an ARINC 429 bus (or if you need the exact resistance of the bus wiring), first remove all the LRUs that are connected to the bus (use the WDM to tell which LRUs are on the bus). Then re-install the LRUs when you are done.

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) For the multi-mode receiver, look in this ATA System: 34 Instrument Landing System.
 - (b) For other LRUs, look in the ATA System of the LRU named in the maintenance message.
 - (c) Look for this type of maintenance message:
 - 1) The LRU has no input from Left AIMS.
 - (d) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (e) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on the CMCS Center Bus (429).
 - 2) IOM(M008) in Left AIMS has an ARINC 429 output fault on CMCS Center Bus (429).
 - 3) IOM(M008) in Left AIMS has an internal fault.
 - 4) IOM(M008) in Left AIMS has no output on the AIMS Backplane.
 - (f) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M008) in Right AIMS has an ARINC 429 output fault on CMCS XCabinet Center Bus (429).
 - 2) IOM(M008) in Right AIMS has an internal fault.
 - 3) IOM(M008) in Right AIMS has no output on the AIMS Backplane.
 - (g) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.

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- 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B10. CMCF to VHF Communication Transceiver Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19748, 45-19749, 45-19750.

B. Fault Isolation Procedure

NOTE: If you use a megohmmeter to do wiring checks on an ARINC 429 bus (or if you need the exact resistance of the bus wiring), first remove all the LRUs that are connected to the bus (use the WDM to tell which LRUs are on the bus). Then re-install the LRUs when you are done.

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in this ATA System: 23 VHF Communication System.
 - (b) Look for this type of maintenance message:
 - 1) The VHF communication transceiver has no input from left AIMS.
 - (c) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (d) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on the CMCS Left Bus (429).
 - 2) Left AIMS has no output on the CMCS Right Bus (429).
 - 3) IOM(M009) in Left AIMS has an ARINC 429 output fault on CMCS Left Bus (429).
 - 4) IOM(M004) in Left AIMS has an ARINC 429 output fault on CMCS Right Bus (429).
 - 5) IOM(M009) in Left AIMS has an internal fault.
 - 6) IOM(M004) in Left AIMS has an internal fault.
 - 7) IOM(M009) in Left AIMS has no output on the AIMS Backplane.
 - 8) IOM(M004) in Left AIMS has no output on the AIMS Backplane.
 - (e) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) IOM(M009) in Right AIMS has an ARINC 429 output fault on CMCS XCabinet Left Bus (429).
 - 2) IOM(M004) in Right AIMS has an ARINC 429 output fault on CMCS XCabinet Right Bus (429).
 - 3) IOM(M009) in Right AIMS has an internal fault.
 - 4) IOM(M004) in Right AIMS has an internal fault.
 - 5) IOM(M009) in Right AIMS has no output on the AIMS Backplane.
 - 6) IOM(M004) in Right AIMS has no output on the AIMS Backplane.
 - (f) If you find a related maintenance message in Existing Faults, then do these steps:

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- 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
- 2) Do the specified task for the maintenance message.
- 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B11. CMCF to Card Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19600, 45-19601, 45-19602, 45-19667, 45-19668, 45-19707, 45-19708, 45-19709, 45-19710.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in ATA system 31 Systems Cardfiles for this type of maintenance message:
 - 1) ARINC Signal Gateway has no input from AIMS on System ARINC 629 Bus.
 - (b) Look in the ATA System of the LRU named in the maintenance message for this type of maintenance message:
 - 1) The LRU has no input from ARINC Signal Gateway.
 - (c) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (d) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on System ARINC 629 Bus.
 - 2) Left AIMS has no output on General Purpose Bus (AIMS-L) (429).
 - 3) IOM(M004) or IOM(M009) in Left AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (e) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) Right AIMS has no output on System ARINC 629 Bus.
 - 2) Right AIMS has no output on General Purpose Bus (AIMS-R) (429).
 - 3) IOM(M004) or IOM(M009) in Right AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (f) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
- (2) For the maintenance message 45-19667 and 45-19668. If either of these messages shows after the CMC initiated test. Run the CMC Initiated test for second time.

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- (a) If the MAT shows NOT ACTIVE for the message (or if the message does not show), you corrected the fault.
- (b) If the MAT shows ACTIVE for the message, then continue.
- (3) Cycle the power to both ECSMC cards: Do the steps that follow to remove power from the Left and Right ECS Miscellaneous cards.
 - (a) Put the A18 S4 power switch on the P85 left system cardfile to the OFF position for 10 seconds. Then turn the switch to the ON position.
 - (b) Put the A18 S4 power switch on the P84 Right system cardfile to the OFF position for 10 seconds. Then turn the switch to the ON position.
 - (c) Wait 6 minutes for Power-On testing to complete.
 - (d) Run the desired Initiated Test from the MAT.
 - (e) If the MAT shows NOT ACTIVE for the message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

B12. CMCF to ARINC Signal Gateway Connection Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in ATA system 31 Systems Cardfiles for this type of maintenance message:
 - 1) ARINC Signal Gateway has no input from AIMS on System ARINC 629 Bus.
 - (b) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (c) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M004) or IOM(M009) in Left AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (d) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) Right AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M004) or IOM(M009) in Right AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (e) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

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B13. CMCF to Cargo Smoke Detector Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19642, 45-19643, 45-19644, 45-19645.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
- (a) Look in ATA system 31 Systems Cardfiles for this type of maintenance message:
- 1) ARINC Signal Gateway has no input from AIMS on System ARINC 629 Bus.
- (b) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (c) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
- 1) Left AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M004) or IOM(M009) in Left AIMS has an ARINC 629 fault on System ARINC 629 Bus.
- (d) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
- 1) Right AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M004) or IOM(M009) in Right AIMS has an ARINC 629 fault on System ARINC 629 Bus.
- (e) Look in the ATA System of the LRU named in the maintenance message for this type of maintenance message:
- 1) The LRU has no input from ARINC Signal Gateway.
- (f) If you find a related maintenance message in Existing Faults, then do these steps:
- 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— END OF TASK —————

B14. CMCF to WOW Card Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19759, 45-19760.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
- (a) Look in ATA system 31 Systems Cardfiles for this type of maintenance message:
- 1) ARINC Signal Gateway has no input from AIMS on System ARINC 629 Bus.
- (b) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)

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- (c) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on System ARINC 629 Bus.
 - 2) Left AIMS has no output on General Purpose Bus (AIMS-L) (429).
 - 3) IOM(M004) or IOM(M009) in Left AIMS has an ARINC 629 fault on System ARINC 629 Bus.
- (d) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) Right AIMS has no output on System ARINC 629 Bus.
 - 2) Right AIMS has no output on General Purpose Bus (AIMS-R) (429).
 - 3) IOM(M004) or IOM(M009) in Right AIMS has an ARINC 629 fault on System ARINC 629 Bus.
- (e) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B15. CMCF to FADEC Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19672, 45-19673, 45-19674, 45-19675.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M003), IOM(M004), IOM(M008), or IOM(M009), in Left AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (c) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) Right AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M003), IOM(M004), IOM(M008), or IOM(M009), in Right AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (d) Look in the 71 - 80 Left Engine or 71 - 80 Right Engine for this type of maintenance message:
 - 1) Engine Data Interface Unit has no input from AIMS on System ARINC 629 Bus.

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- 2) Communication Path between EEC and Systems Bus is failed.
- (e) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B17. CMCF to EDIU Connection Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M003), IOM(M004), IOM(M008), or IOM(M009), in Left AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (c) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) Right AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M003), IOM(M004), IOM(M008), or IOM(M009), in Right AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (d) Look in the 71 - 80 Left Engine or 71 - 80 Right Engine for this type of maintenance message:
 - 1) Engine Data Interface Unit has no input from AIMS on System ARINC 629 Bus.
 - (e) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B19. CMCF to ADIRU Connection Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in ATA system 34 Air Data Inertial Reference Unit for this type of maintenance message:

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- 1) Air Data Inertial Reference Unit has no input from AIMS on Flight Controls ARINC 629 Bus.
- (b) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (c) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on Flight Controls ARINC 629 Bus (left).
 - 2) IOM(M008) or IOM(M009) in Left AIMS has an ARINC 629 fault on Flight Controls ARINC 629 Bus (left).
- (d) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) Right AIMS has no output on Flight Controls ARINC 629 Bus (right).
 - 2) IOM(M003) or IOM(M004) in Right AIMS has an ARINC 629 fault on Flight Controls ARINC 629 Bus (right).
- (e) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B20. CMCF to LRU on Flight Controls Bus (Center) Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19615, 45-19726.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:

- (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) AIMS has no input from CMCF

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) CPM/Comm(M001) has a fault

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 3) IOM(M003) has a fault

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 4) CPM/Comm(M001) has no output

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 5) IOM(M003) has no output

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- 6) CMCF has an internal fault
- 7) AIMS has no output on any bus
- (b) Look in ATA system 45 AIMS - Central Maintenance Computing System for these types of maintenance messages:
 - 1) CMCF in left AIMS has no input
 - 2) CMCF in left AIMS has no output
- (c) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (d) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for this type of maintenance message:
 - 1) IOM(M003) in Left AIMS has an ARINC 629 fault on Flight Controls ARINC 629 Bus (center).
- (e) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for this type of maintenance message:
 - 1) Right AIMS has no output on Flight Controls ARINC 629 Bus (right).
 - 2) IOM(M008) in Right AIMS has an ARINC 629 fault on Flight Controls ARINC 629 Bus (center).
- (f) Look in the ATA System of the LRU named in the maintenance message for this type of maintenance message:
 - 1) LRU cannot perform some types of functions.
- (g) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B21. CMCF to LRU on Flight Controls Bus (Left) Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19617, 45-19727.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on Flight Controls ARINC 629 Bus (left).
 - 2) IOM(M008) or IOM(M009) in Left AIMS has an ARINC 629 fault on Flight Controls ARINC 629 Bus (left).

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- 3) AIMS has no input from CMCF

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 4) CPM/Comm(M001) has a fault

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 5) IOM(M003) has a fault

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 6) CPM/Comm(M001) has no output

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 7) IOM(M003) has no output

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- 8) CMCF has an internal fault
9) AIMS has no output on any bus

- (b) Look in ATA system 45 AIMS - Central Maintenance Computing System for these types of maintenance messages:

- 1) CMCF in left AIMS has no input
2) CMCF in left AIMS has no output

- (c) If you find a related maintenance message in Existing Faults, then do these steps:

- 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
2) Do the specified task for the maintenance message.
3) Try again to do the ground test that caused the maintenance message.
a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

B22. CMCF to LRU on Flight Controls Bus (Right) Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19619, 45-19728.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:

- (a) look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:

- 1) Right AIMS has no output on Flight Controls ARINC 629 Bus (right).
2) IOM(M003) or IOM(M004) in Right AIMS has an ARINC 629 fault on Flight Controls ARINC 629 Bus (right).
3) AIMS has no input from CMCF

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 4) CPM/Comm(M001) has a fault

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 5) IOM(M003) has a fault

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 6) CPM/Comm(M001) has no output

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 7) IOM(M003) has no output

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- 8) CMCF has an internal fault
- 9) AIMS has no output on any bus
- (b) Look in ATA system 45 AIMS - Central Maintenance Computing System for these types of maintenance messages:
 - 1) CMCF in right AIMS has no input
 - 2) CMCF in right AIMS has no output
- (c) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— END OF TASK —————

B23. CMCF to SAARU Connection Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) AIMS has no input from CMCF

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) CPM/Comm(M001) has a fault

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 3) IOM(M003) has a fault

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 4) CPM/Comm(M001) has no output

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 5) IOM(M003) has no output

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- 6) CMCF has an internal fault
- 7) AIMS has no output on any bus
- (b) Look in ATA system 45 AIMS - Central Maintenance Computing System for these types of maintenance messages:
 - 1) CMCF in left AIMS has no input
 - 2) CMCF in left AIMS has no output
- (c) Look in ATA system 34 Air Data Inertial Reference Unit for this type of maintenance message:
 - 1) Secondary Attitude Air Data Reference Unit has no input from AIMS on Flight Controls ARINC 629 Bus.
- (d) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
- (e) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on Flight Controls ARINC 629 Bus (left).
 - 2) IOM(M003) in Left AIMS has an ARINC 629 fault on Flight Controls ARINC 629 Bus (center).
- (f) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) Right AIMS has no output on Flight Controls ARINC 629 Bus (right).
 - 2) IOM(M008) in Right AIMS has an ARINC 629 fault on Flight Controls ARINC 629 Bus (center).
- (g) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— END OF TASK —————

B24. CMCF to LRU (APUC, ELMS, or FSEU) Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19669, 45-19670, 45-19671, 45-19694, 45-19696.

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B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M004) or IOM(M009) in Left AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (c) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) Right AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M004) or IOM(M009) in Right AIMS has an ARINC 629 fault on System ARINC 629 Bus.
 - (d) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— END OF TASK —————

B25. CMCF Connection (System ARINC 629 Bus) Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19621, 45-19622, 45-19623, 45-19624, 45-19625, 45-19626, 45-19627, 45-19628, 45-19629, 45-19630, 45-19637, 45-19638, 45-19639, 45-19640, 45-19646, 45-19647, 45-19648, 45-19649, 45-19702, 45-19703, 45-19716, 45-19717, 45-19718, 45-19719, 45-19720, 45-19721, 45-19755, 45-19756, 45-19757, 45-19758.

B. Fault Isolation Procedure

- (1) Look at the Extended Maintenance, Existing Faults display on the MAT for related maintenance messages:
 - (a) Look in the ATA System of the LRU named in the maintenance message for this type of maintenance message:
 - 1) The LRU has no input from AIMS on System ARINC 629 Bus.
 - (b) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (c) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) Left AIMS has no output on System ARINC 629 Bus.

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- 2) IOM(M003), IOM(M004), IOM(M008), or IOM(M009) in Left AIMS has an ARINC 629 fault on System ARINC 629 Bus.
- (d) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) Right AIMS has no output on System ARINC 629 Bus.
 - 2) IOM(M003), IOM(M004), IOM(M008), or IOM(M009) in Right AIMS has an ARINC 629 fault on System ARINC 629 Bus.
- (e) If you find a related maintenance message in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— END OF TASK —————

B26. CMCF to LRU on LAN Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19641, 45-19698, 45-19715, 45-19764.

B. Fault Isolation Procedure

- (1) Try to do the ground test that caused the maintenance message related to the brouter or SIU.
 - (a) If the maintenance message does not show after the ground test, you corrected the fault.

————— END OF TASK —————

B27. CMCF Output on Center Flight Controls Bus Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-17100, 45-17200.

B. Fault Isolation Procedure

ARO 001, 002, 004-999; ARO 003 PRE SB 777-31-0264 AND PRE SB 777-31-0218 OR PRE SB 777-31-0263 OR POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

NOTE: When inputs tell AIMS that the airplane is in the air, AIMS is designed to prevent the CMCF from transmitting to any LRU on the FC-C bus, such as ADM-C, PSA-C, PFC-C, and SAARU. When the CMCF cannot transmit to these LRUs, it cannot get configuration, or shop faults data from these LRUs, and it cannot do a ground test, or a data load of these LRUs until the airplane is on the ground and the engines are off. This limitation is done for safety reasons, and 45-17100 is used to explain that the degraded CMCF access to the FC-C bus during this flight condition is normal. To see why AIMS is preventing the CMCF from transmitting on the FC-C bus, you can try to start a ground test and then look at the TO TEST display.

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- (1) These are nuisance messages when they occur after an engine start.
- (2) To see why the CMCF in AIMS cannot transmit, and to correct the problem, do this:

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (a) Try to start this test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (b) Try to start this test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

ARO ALL

- (c) When TEST CONDITION: INHIBITED shows on the MAT, select TO TEST.
- (d) Do the steps that show on the TO TEST display.
- (e) If TEST CONDITION: READY shows on the MAT, you corrected the problem. (It is not necessary to complete the reset test.)

————— **END OF TASK** —————

B28. Ground Test Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-10060.

B. Fault Isolation Procedure

- (1) Try again to do the ground test that caused the maintenance message.
 - (a) If the maintenance message does not show after the ground test, you corrected the fault.

NOTE: This maintenance message can show when many faults occur at the same time or when many faults change state at the same time. You need to try the ground test again until this message does not show on the ground test display.

————— **END OF TASK** —————

B29. CMCF Database Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-10071, 45-10072.

B. Fault Isolation Procedure

- (1) Erase all Fault History data:
 - (a) If a copy of the fault history database is necessary, then make a report to the printer, a disk, or the ground station (datalink):
 - 1) Select REPORT.
 - 2) Select FAULT HISTORY SUMMARY REPORT.
 - 3) Select SEND adjacent to Printer, Disk Drive, or Datalink.
 - (b) Make these selections to erase all fault history data:
 - 1) EXTENDED MAINTENANCE
 - 2) FAULT HISTORY
 - 3) NN ATA System (where NN is a number)

NOTE: Selection of an ATA system is necessary only to get access to the ERASE BY ATA selection.

- 4) CONTINUE

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- 5) ERASE BY ATA
 - 6) All Fault History
 - 7) ERASE (a confirmation dialog box shows the number of maintenance messages that will be erased)
 - 8) ERASE
- (c) When the fault history database is erased, you corrected the fault.

————— **END OF TASK** —————

B30. MAT No More Sessions for CMCF - Fault Isolation

A. Fault Isolation Procedure

- (1) If you cannot start onboard maintenance on more than one maintenance access terminal, do this:
 - (a) For a temporary solution, find the CMCF in control and put the other CMCF in control:
 - 1) Make these selections: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL.
 - a) If the display shows that the left CMCF is in control, select SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- <1> On the MATA AIMS Main Menu, select Interface R_AIMS.
- <2> Select ONBOARD MAINTENANCE.

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- b) If the display shows that the right CMCF is in control, select SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- <1> On the MATA AIMS Main Menu, select Interface L_AIMS.
- <2> Select ONBOARD MAINTENANCE.

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- 2) If you can now start onboard maintenance on more than one maintenance access terminal, then you have temporarily corrected the problem.
 - 3) To fully correct the problem, then continue.
- (b) Look at the Extended Maintenance, Existing Faults display on the MAT for maintenance messages related to these:
 - 1) ARINC 636
 - 2) Data Communication Management Function (DCMF)
 - (c) If a related maintenance message shows in Existing Faults, then find the maintenance message in the applicable FIM Maintenance Message Index and do the specified task.
 - 1) If you can now start onboard maintenance on more than one maintenance access terminal with either the left or the right CMCF in control, you corrected the fault.
- (2) If onboard maintenance is in operation on other maintenance access terminals when the fault code shows, do this:

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- (a) Go to a different maintenance access terminal where onboard maintenance is in operation and make these selections:
 - 1) LINE MAINTENANCE (or EXTENDED MAINTENANCE or OTHER FUNCTIONS)
 - 2) EXIT MAINTENANCE
- (b) Go back to the MAT that had the dialog box and select ONBOARD MAINTENANCE.
 - 1) If the CMCF main menu shows, you corrected the problem.
 - 2) If the CMCF main menu does not show, then continue.
- (3) If the fault code is on the MAT/PMAT, do this:
 - (a) Open and close these circuit breakers:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	23	C45401	E/E BAY PMAT

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

- (b) Select ONBOARD MAINTENANCE.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.
- (4) If the fault code is on the maintenance device, SPL-5704, do these steps:
 - (a) Use the start button to Shut Down the GSE-Laptop.
 - (b) Push the ON/OFF switch on the GSE-Laptop and make sure the PWR light comes on.
 - (c) LAPTOP WITH LMAT-2000 APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - 1) Double click the "LMAT-2000" icon.
 - 2) Verify that LMAT-2000 software starts.
 - 3) Select "Onboard Maintenance" button.
 - (d) LAPTOP WITH MATA APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - 1) Double click the "MATA" icon.
 - 2) Make sure that the "MATA AIMS Main Menu" screen is displayed.
 - 3) Select "Onboard Maintenance" button.
 - (e) Make sure that the CMCF main menu (or ONBOARD MAINTENANCE screen) is displayed.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.
- (5) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1

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Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

- (a) Select ONBOARD MAINTENANCE on the MAT.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.
- (6) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

- (a) Select ONBOARD MAINTENANCE on the MAT.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.
- (7) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

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<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
J	6	C31651	AIMS L

NOTE: When you open circuit breaker 310J6 AIMS L, the CMCS can lose all fault history.

- (a) Select ONBOARD MAINTENANCE on the MAT.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.
- (8) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

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<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
J	7	C31650	AIMS R

NOTE: When you open circuit breaker 310J7 AIMS R, the CMCS can lose all fault history.

- (a) Select ONBOARD MAINTENANCE on the MAT.
 - 1) If the CMCF main menu shows, you corrected the fault.

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- (9) Enter the airplane tail number on the System Information page to establish Controller-Pilot Data Link Communications (CPDLC).
 - (a) Make these selections on the MFD to access the System Information page.
 - 1) Press COMM on the DSP to display the FDCF MAIN MENU on the MFD.
 - 2) Press MANAGER on the FDCF MAIN MENU to display the FDCF MANAGER MENU.
 - 3) Press SYSTEM INFORMATION on the FDCF MANAGER MENU to display the SYSTEM INFORMATION Sub-menu.
 - (b) Enter the airplane tail number.

NOTE: The tail number is lost and needs to be re-entered to re-establish CPDLC if the AIMS L or AIMS R circuit breakers are cycled, the AIMS CPM/COMM module is re-racked, new CMCF AMI software is loaded, or new COMM software is loaded. The tail number must be entered before engine start, since the field is inhibited after engine start.

ARO ALL

————— **END OF TASK** —————

B31. MAT No More Sessions for ACMF - Fault Isolation

A. Fault Isolation Procedure

- (1) If Condition Monitoring is in operation on other Maintenance Access Terminal (MAT), do this:
 - (a) Go to a different MAT where condition monitoring is in operation and make these selections:
 - 1) ACMS
 - 2) EXIT ACMS
 - (b) Go back to the MAT that had the dialog box and select CONDITION MONITORING.
 - 1) If the ACMF main menu shows, you corrected the fault.
 - 2) If the ACMF main menu does not show, then continue.
- (2) If the fault code is on the MAT/PMAT, do this:
 - (a) Open and close these circuit breakers:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	23	C45401	E/E BAY PMAT

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Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

- (b) Select CONDITION MONITORING.
 - 1) If the ACMF main menu shows, you corrected the fault.
 - 2) If the ACMF main menu does not show, then continue.
- (3) If the fault code is on the maintenance device, SPL-5704, do these steps:
 - (a) Use the start button to Shut Down the GSE-Laptop.
 - (b) Push the ON/OFF switch on the GSE-Laptop and make sure the PWR light comes on.
 - (c) LAPTOP WITH LMAT-2000 APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - 1) Double click the "LMAT-2000" icon.
 - 2) Verify that LMAT-2000 software starts.
 - 3) Select "Condition Monitoring" button.
 - (d) LAPTOP WITH MATA APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - 1) Double click the "MATA" icon.
 - 2) Make sure that the "MATA AIMS Main Menu" screen is displayed.
 - 3) Select "Condition Monitoring" button.
 - (e) Make sure that the ACMF main menu (or CONDITION MONITORING screen) is displayed.
Select .
 - 1) If the ACMF main menu shows, you corrected the fault.
 - 2) If the ACMF main menu does not show, then continue.
- (4) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

- (a) Select CONDITION MONITORING.
 - 1) If the ACMF main menu shows, you corrected the fault.
 - 2) If the ACMF main menu does not show, then continue.
- (5) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2

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<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

- (a) Select CONDITION MONITORING.
 - 1) If the ACMF main menu shows, you corrected the fault.
 - 2) If the ACMF main menu does not show, then continue.

- (6) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

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<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
J	6	C31651	AIMS L

NOTE: When you open circuit breaker 310J6 AIMS L, the CMCS can lose all fault history.

- (a) Select CONDITION MONITORING.
 - 1) If the ACMF main menu shows, you corrected the fault.
 - 2) If the ACMF main menu does not show, then continue.

- (7) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

Standby Power Management Panel, P310

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
J	7	C31650	AIMS R

NOTE: When you open circuit breaker 310J7 AIMS R, the CMCS can lose all fault history.

- (a) Select CONDITION MONITORING.
 - 1) If the ACMF main menu shows, you corrected the fault.

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- (8) Enter the airplane tail number on the System Information page to establish Controller-Pilot Data Link Communications (CPDLC).
 - (a) Make these selections on the MFD to access the System Information page.

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- 1) Press COMM on the DSP to display the FDCF MAIN MENU on the MFD.
 - 2) Press MANAGER on the FDCF MAIN MENU to display the FDCF MANAGER MENU.
 - 3) Press SYSTEM INFORMATION on the FDCF MANAGER MENU to display the SYSTEM INFORMATION Sub-menu.
- (b) Enter the airplane tail number.

NOTE: The tail number is lost and needs to be re-entered to re-establish CPDLC if the AIMS L or AIMS R circuit breakers are cycled, the AIMS CPM/COMM module is re-racked, new CMCF AMI software is loaded, or new COMM software is loaded. The tail number must be entered before engine start, since the field is inhibited after engine start.

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————— END OF TASK —————

B32. CMCF Connection Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) If the dialog box is on the MAT:
 - (a) Open and close this circuit breaker:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

- 1) Select ONBOARD MAINTENANCE.
 - a) If the CMCF main menu shows, you corrected the fault.
 - b) If the CMCF main menu does not show, then continue.
- (b) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

- 1) Select ONBOARD MAINTENANCE.
 - a) If the CMCF main menu shows, you corrected the fault.
 - b) If the CMCF main menu does not show, then continue.
- (c) Check the PMAT operation. If you have a connection between the PMAT and the Right CMC, then replace the Left CPM/COMM Module.
 - 1) To remove and install the CPM/COMM Module, do these tasks:
Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802

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Core Processor Module/Communication (CPM/Comm) Installation, AMM
TASK 31-41-04-400-802

NOTE: It is recommended that the replacement CPM/Comm module has Mod "B" and Mod "C". These modifications are done by vendor service bulletins.

- 2) Select ONBOARD MAINTENANCE.
 - a) If the CMCF main menu shows, you corrected the fault.
 - b) If the CMCF main menu does not show, then continue.
 - 3) Make sure that there is continuity between the MAT Ethernet wiring and the left AIMS module.
 - 4) If there is no continuity between the MAT Ethernet wiring and the left AIMS module, then repair the Ethernet wires if necessary.
 - 5) Select ONBOARD MAINTENANCE.
 - a) If the CMCF main menu shows, you corrected the fault.
 - b) If the CMCF main menu does not show, then continue.
- (d) If the Dialog Box is on the GSE Laptop (LMAT), do these steps :
- 1) Use the start button to Shut Down the GSE-Laptop.
 - 2) Push the ON/OFF switch on the GSE-Laptop and make sure the PWR light comes on.
 - 3) LAPTOP WITH LMAT-2000 APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - a) Double click the "LMAT-2000" icon.
 - b) Verify that LMAT-2000 software starts.
 - c) Select "Onboard Maintenance" button.
 - 4) LAPTOP WITH MATA APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - a) Double click the "MATA" icon.
 - b) Make sure that the "MATA AIMS Main Menu" screen is displayed.
 - c) Select "Onboard Maintenance" button.
 - 5) Make sure that the CMCF main menu (or ONBOARD MAINTENANCE screen) is displayed.
 - a) If the CMCF main menu shows, you corrected the fault.
 - b) If the CMCF main menu does not show, then continue.
- (e) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

- 1) Select ONBOARD MAINTENANCE.
 - a) If the CMCF main menu shows, you corrected the fault.

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- b) If the CMCF main menu does not show, then continue.
- (f) Check the MAT operation. If you have a connection between the MAT and the Left CMC, then replace the Right CPM/COMM Module.
 - 1) To remove and install the CPM/COMM Module, do these tasks:
Core Processor Module/Communication (CPM/Comm) Removal, AMM
TASK 31-41-04-000-802
Core Processor Module/Communication (CPM/Comm) Installation, AMM
TASK 31-41-04-400-802
NOTE: It is recommended that the replacement CPM/Comm module has Mod "B" and Mod "C". These modifications are done by vendor service bulletins.
 - 2) Select ONBOARD MAINTENANCE.
 - a) If the CMCF main menu shows, you corrected the fault.
 - b) If the CMCF main menu does not show, then continue.
 - 3) Make sure that there is continuity between the GSE Laptop (LMAT) Ethernet wiring and the Right AIMS module.
 - 4) If there is no continuity between the GSE Laptop (LMAT) Ethernet wiring and the Right AIMS module, then repair the Ethernet wires if necessary.
 - 5) Select ONBOARD MAINTENANCE.
 - a) If the CMCF main menu shows, you corrected the fault.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (2) Enter the airplane tail number on the System Information page to establish Controller-Pilot Data Link Communications (CPDLC).
 - (a) Make these selections on the MFD to access the System Information page.
 - 1) Press COMM on the DSP to display the FDCF MAIN MENU on the MFD.
 - 2) Press MANAGER on the FDCF MAIN MENU to display the FDCF MANAGER MENU.
 - 3) Press SYSTEM INFORMATION on the FDCF MANAGER MENU to display the SYSTEM INFORMATION Sub-menu.
 - (b) Enter the airplane tail number.
NOTE: The tail number is lost and needs to be re-entered to re-establish CPDLC if the AIMS L or AIMS R circuit breakers are cycled, the AIMS CPM/COMM module is re-racked, new CMCF AMI software is loaded, or new COMM software is loaded. The tail number must be entered before engine start, since the field is inhibited after engine start.

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————— END OF TASK —————

B33. MAT ACMF Session Stopped or ACMF Connection Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) If the fault code is on the MAT:

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Open and close this circuit breaker:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

- (a) Select CONDITION MONITORING.
 - 1) If the ACMF main menu shows, you corrected the fault.
 - 2) If the ACMF main menu does not show, then continue.
- (b) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

- 1) Select CONDITION MONITORING.
 - a) If the ACMF main menu shows, you corrected the fault.
 - b) If the ACMF main menu does not show, then continue.
- (c) Check the PMAT operation. If you have a connection, between the PMAT and the Right CMC then replace the Left CPM/COMM Module.
 - 1) To remove and install the CPM/COMM Module, do these tasks:
 Core Processor Module/Communication (CPM/Comm) Removal, AMM
 TASK 31-41-04-000-802

 Core Processor Module/Communication (CPM/Comm) Installation, AMM
 TASK 31-41-04-400-802

NOTE: It is recommended that the replacement CPM/Comm module has Mod "B" and Mod "C". These modifications are done by vendor service bulletins.
 - 2) Select CONDITION MONITORING.
 - a) If the ACMF main menu shows, you corrected the fault.
 - b) If the ACMF main menu does not show, then continue.
 - 3) Make sure that there is continuity between the MAT Ethernet wiring and the left AIMS module.
 - 4) If there is no continuity between the MAT Ethernet wiring and the left AIMS module, then repair the Ethernet wires if necessary.
 - 5) Select CONDITION MONITORING.
 - a) If the ACMF main menu shows, you corrected the fault.
 - b) If the ACMF main menu does not show, then continue.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (2) Enter the airplane tail number on the System Information page to establish Controller-Pilot Data Link Communications (CPDLC).
 - (a) Make these selections on the MFD to access the System Information page.

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ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218 (Continued)

- 1) Press COMM on the DSP to display the FDCF MAIN MENU on the MFD.
 - 2) Press MANAGER on the FDCF MAIN MENU to display the FDCF MANAGER MENU.
 - 3) Press SYSTEM INFORMATION on the FDCF MANAGER MENU to display the SYSTEM INFORMATION Sub-menu.
- (b) Enter the airplane tail number.

NOTE: The tail number is lost and needs to be re-entered to re-establish CPDLC if the AIMS L or AIMS R circuit breakers are cycled, the AIMS CPM/COMM module is re-racked, new CMCF AMI software is loaded, or new COMM software is loaded. The tail number must be entered before engine start, since the field is inhibited after engine start.

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- (3) If the Dialog Box is on the GSE Laptop (LMAT) , do these steps:
- (a) Use the start button to Shut Down the GSE-Laptop.
 - (b) Push the ON/OFF switch on the GSE-Laptop and make sure the PWR light comes on.
 - (c) LAPTOP WITH LMAT-2000 APPLICATION;
Do these steps to get access to the Condition Monitoring screen:
 - 1) Double click the LMAT-2000 icon
 - 2) Verify that LMAT-2000 software starts.
 - 3) Select the "Condition Monitoring" button.
 - (d) LAPTOP WITH MATA APPLICATION;
Do these steps to get access to the Condition Monitoring screen:
 - 1) Double click the "MATA" icon.
 - 2) Make sure that the "MATA AIMS Main Menu" screen is displayed.
 - 3) Select the "Condition Monitoring" button.
 - (e) Make sure that ACMF main menu (or CONDITION MONITORING screen) is displayed.
 - 1) If the ACMF main menu shows, you corrected the fault.
 - 2) If the ACMF main menu does not show, then continue.
 - (f) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

- 1) Select CONDITION MONITORING.
 - a) If the ACMF main menu shows, you corrected the fault.
 - b) If the ACMF main menu does not show, then continue.

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- (g) Check the MAT operation. If you have a connection, between the MAT and the Left CMC then replace the Right CPM/COMM Module.
 - 1) To remove and install the CPM/COMM Module, do these tasks:
Core Processor Module/Communication (CPM/Comm) Removal, AMM
TASK 31-41-04-000-802
Core Processor Module/Communication (CPM/Comm) Installation, AMM
TASK 31-41-04-400-802
NOTE: It is recommended that the replacement CPM/Comm module has Mod "B" and Mod "C". These modifications are done by vendor service bulletins.
 - 2) Select CONDITION MONITORING.
 - a) If the ACMF main menu shows, you corrected the fault.
 - b) If the ACMF main menu does not show, then continue.
 - 3) Make sure that there is continuity between the GSE Laptop (LMAT) Ethernet wiring and the Right AIMS module.
 - 4) If there is no continuity between the GSE Laptop (LMAT) Ethernet wiring and the Right AIMS module, then repair the Ethernet wires if necessary.
 - 5) Select CONDITION MONITORING.
 - a) If the ACMF main menu shows, you corrected the fault.
 - 6) If the ACMF main menu does not show, then continue.

————— END OF TASK —————

B34. MAT CMCF Session Stopped - Fault Isolation

A. Fault Isolation Procedure

NOTE: This problem can occur when you select LRU DATA on a shop faults display.

- (1) Stop for 15 seconds.
 - (a) Select ONBOARD MAINTENANCE.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.
 - (b) Stop again for 15 seconds and then select ONBOARD MAINTENANCE.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.

- (2) If the stopped session is on the MAT:

Open and close this circuit breaker:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

- (a) Select ONBOARD MAINTENANCE.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.
- (3) If the stopped session is on the maintenance device, SPL-5704, do these steps:
 - (a) Use the start button to Shut Down the GSE-Laptop.

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- (b) Push the ON/OFF switch on the GSE-Laptop and make sure the PWR light comes on.
- (c) LAPTOP WITH LMAT-2000 APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - 1) Double click the "LMAT-2000" icon
 - 2) Verify that LMAT-2000 software starts.
 - 3) Select "Onboard Maintenance" button.
- (d) LAPTOP WITH MATA APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - 1) Double click the "MATA" icon.
 - 2) Make sure that the "MATA AIMS Main Menu" screen is displayed.
 - 3) Select "Onboard Maintenance" button.
- (e) Make sure that the CMCF main menu (or ONBOARD MAINTENANCE screen) is displayed.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.

- (4) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

- (a) Select ONBOARD MAINTENANCE on the MAT.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.

- (5) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

- (a) Select ONBOARD MAINTENANCE on the MAT.
 - 1) If the CMCF main menu shows, you corrected the fault.

————— END OF TASK —————

B35. Request-is-Operating Shows Continuously - Fault Isolation

A. Fault Isolation Procedure

- (1) If the Request-is-Operating dialog box shows continuously during software installation (data load) of the electronic engine control, after the load-in-progress display stops at 99%, start here:

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- (a) If the problem occurred during the software installation for the FIRST channel of the LEFT electronic engine control, make sure that this EICAS advisory message shows on the upper EICAS display: ENG CONTROL L.
 - (b) If the problem occurred during the software installation for the FIRST channel of the RIGHT electronic engine control, make sure that this EICAS advisory message shows on the upper EICAS display: ENG CONTROL R.
 - (c) If the problem occurred during the software installation for the SECOND channel of the LEFT electronic engine control, make sure that this EICAS advisory message does NOT show on the upper EICAS display: ENG CONTROL L.
 - (d) If the problem occurred during the software installation for the SECOND channel of the RIGHT electronic engine control, make sure that this EICAS advisory message does NOT show on the upper EICAS display: ENG CONTROL R.
 - (e) Make these selections on the MAT:
 - 1) EXIT MAINTENANCE
 - 2) ONBOARD MAINTENANCE
 - 3) LINE MAINTENANCE
 - 4) SYSTEM CONFIGURATION
 - 5) 71 - 80 Left (Right) Engine
 - 6) CONTINUE
 - (f) For the applicable channel, make sure that the software part number that shows is the same as the software part number that you installed.
 - 1) If the software part number that shows is different from the software part number that you installed, then do the software installation again for the applicable channel.
 - 2) If the software part number that shows is the same as the software part number that you installed, then the software installation is completed for the applicable channel.
- (2) If the Request-is-Operating dialog box shows continuously at a time other than during the conditions above, start here:
- (a) Select EXIT MAINTENANCE.
 - (b) Stop for 15 seconds.
 - (c) Select ONBOARD MAINTENANCE.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.
 - (d) Stop again for 15 seconds and then select ONBOARD MAINTENANCE.
 - 1) If the CMCF main menu shows, you corrected the fault.
 - 2) If the CMCF main menu does not show, then continue.
 - (e) If the stopped session is on the MAT, open and then close this circuit breaker:
Open and close this circuit breaker:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

- 1) Select ONBOARD MAINTENANCE.
 - a) If the CMCF main menu shows, you corrected the fault.

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- b) If the CMCF main menu does not show, then continue.
- (f) If the stopped session is on the maintenance device, SPL-5704, do these steps:
 - 1) Use the start button to Shut Down the GSE-Laptop.
 - 2) Push the ON/OFF switch on the GSE-Laptop and make sure the PWR light comes on.
 - 3) LAPTOP WITH LMAT-2000 APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - a) Double click the "LMAT-2000" icon
 - b) Verify that LMAT-2000 software starts.
 - c) Select "Onboard Maintenance" button.
 - 4) LAPTOP WITH MATA APPLICATION;
Do these steps to get access to the Onboard Maintenance screen:
 - a) Double click the "MATA" icon.
 - b) Make sure that the "MATA AIMS Main Menu" screen is displayed.
 - c) Select "Onboard Maintenance" button.
 - 5) Make sure that the CMCF main menu (or ONBOARD MAINTENANCE screen) is displayed.
 - a) If the CMCF main menu shows, you corrected the fault.
 - b) If the CMCF main menu does not show, then continue.

- (g) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4

- 1) Select ONBOARD MAINTENANCE on the MAT.
 - a) If the CMCF main menu shows, you corrected the fault.
 - b) If the CMCF main menu does not show, then continue.

- (h) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

- 1) Select ONBOARD MAINTENANCE on the MAT.
 - a) If the CMCF main menu shows, you corrected the fault.

————— **END OF TASK** —————

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B36. Configuration Display Problems - Fault Isolation

A. Fault Isolation Procedure

(1) If LRU INACTIVE/FAULTED shows adjacent to an LRU on the System Configuration display, do these steps:

(a) If the LRU is new and does not have the operational program specification (OPS) installed, then install the OPS.

1) Try again to show System Configuration for the ATA system of the LRU.

2) If the LRU configuration shows, you corrected the fault.

3) If LRU INACTIVE/FAULTED shows again, then continue.

(b) Look in Extended Maintenance, Existing Faults for an ACTIVE maintenance message related to the LRU that has the INACTIVE/FAULTED indication on the configuration display.

NOTE: Select the same ATA system that you selected for System Configuration.

1) If a related maintenance message shows in Existing Faults, then do these steps:

a) Find the maintenance message in the applicable FIM Maintenance Message Index.

b) Do the specified task for the maintenance message.

c) Try again to show System Configuration for the ATA system of the LRU.

d) If the LRU configuration shows, you corrected the fault.

2) If no related maintenance message shows in Existing Faults, then continue.

(c) Replace the LRU that has the INACTIVE/FAULTED indication on the configuration display.

1) Try again to show System Configuration for the ATA system of the LRU.

2) If the LRU configuration shows, you corrected the fault.

(2) If LRU DOES NOT GIVE A REPLY shows adjacent to an LRU on the System Configuration display, do these steps:

(a) If the LRU that does not give a reply is the left or center ADM, the left or center PFC, the left or center PSA, or the SAARU, look in Extended Maintenance, Existing Faults:

NOTE: To look at the configuration of these LRUs (the left or center ADM, the left or center PFC, the left or center PSA, and the SAARU), it is necessary for the left CMCF to be operational.

1) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:

a) AIMS has no input from CMCF

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

b) CPM/Comm(M001) has a fault

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

c) IOM(M003) has a fault

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- d) CPM/Comm(M001) has no output

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- e) IOM(M003) has no output

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- f) CMCF has an internal fault
- g) AIMS has no output
- 2) Look in ATA system 45 AIMS - Central Maintenance Computing System for these types of maintenance messages:
 - a) CMCF in left AIMS has no input
 - b) CMCF in left AIMS has no output
- 3) If you find a maintenance message in Existing Faults, then do these steps:
 - a) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - b) Do the specified task for the maintenance message.
 - c) Try again to show System Configuration for the ATA system of the LRU.
 - d) If the LRU configuration shows, you corrected the fault.
- 4) If no related maintenance message shows in Existing Faults, then continue.
- (b) If the LRU that does not give a reply is the right ADM, right PFC, or the right PSA, look in Extended Maintenance, Existing Faults:

NOTE: To look at the configuration of these LRUs (the right ADM, the right PFC, and the right PSA), it is necessary for the right CMCF to be operational.

- 1) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - a) AIMS has no input from CMCF

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- b) CPM/Comm(M001) has a fault

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- c) IOM(M003) has a fault

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- d) CPM/Comm(M001) has no output

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- e) IOM(M003) has no output

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- f) CMCF has an internal fault
- g) AIMS has no output
- 2) Look in ATA system 45 AIMS - Central Maintenance Computing System for these types of maintenance messages:

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- a) CMCF in right AIMS has no input
- b) CMCF in right AIMS has no output
- 3) If you find a maintenance message in Existing Faults, then do these steps:
 - a) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - b) Do the specified task for the maintenance message.
 - c) Try again to show System Configuration for the ATA system of the LRU.
 - d) If the LRU configuration shows, you corrected the fault.
- 4) If no related maintenance message shows in Existing Faults, then continue.
- (c) Look in Extended Maintenance, Existing Faults for a related maintenance message:
 - 1) Look in the same ATA System that you selected for System Configuration for these types of maintenance messages:
 - a) LRU has no input from AIMS
NOTE: The LRU in the maintenance message is the one that does not give a reply.
 - b) IOM has an analog input or output fault
 - 2) Look in the 31 AIMS - Left AIMS or 31 AIMS - Right AIMS for these types of maintenance messages:
 - a) AIMS has no output on CMCS Bus (429)
 - b) AIMS has no output on System ARINC 629 Bus
 - c) AIMS has no output on General Purpose Bus
 - d) AIMS has no output on Flight Controls ARINC 629 Bus
 - e) IOM has an ARINC 429 output fault
 - f) IOM has an internal fault
 - g) IOM has no output on the AIMS Backplane
 - h) IOM has an ARINC 629 fault
 - 3) For EEC configuration problems, look in 71 - 80 Left Engine or 71 - 80 Right Engine for these types of maintenance messages:
 - a) Communication Path between EEC and bus is failed
 - b) EEC has no input from EDIU
 - 4) For LRUs that are cards, look in 31 Systems Cardfiles for these types of maintenance messages:
 - a) LRU has no input from ARINC signal gateway
 - 5) If a related maintenance message shows in Existing Faults, then do these steps:
 - a) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - b) Do the specified task for the maintenance message.
 - c) Try again to show System Configuration for the ATA system of the LRU.
 - d) If the LRU configuration shows, you corrected the fault.

———— **END OF TASK** ————

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B37. Software Installation Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) If the MAT shows that no signal came back from the destination LRU when you start the software installation (data load) do these steps:
 - (a) Make sure that the destination LRU is fully installed.
 - 1) Try again to start the software installation.
 - 2) If the software installation continues, you corrected the fault.
 - 3) If the MAT again shows that no signal came back from the destination LRU, then continue.
 - (b) Look in Extended Maintenance, Existing Faults for an ACTIVE maintenance message related to an AIMS IOM.
 - 1) If the left CMCF is in control, look in 31 AIMS - Left AIMS.
 - 2) If the right CMCF is in control, look in 31 AIMS - Right AIMS.
NOTE: The CMCF that is in control shows at the top of the Existing Faults display.
 - 3) If a maintenance message for an IOM shows in Existing Faults, then do these steps:
 - a) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - b) Do the specified task for the maintenance message.
 - c) Try again to start the software installation.
 - d) If the software installation continues, you corrected the fault.
 - 4) If no maintenance message for an IOM shows in Existing Faults, then continue.
 - (c) Refer to AMM PAGEBLOCK 20-15-11/201, Table 202, to check temperature compliance.
 - 1) If the temperature during installation is more than one of these values, do this task AMM PAGEBLOCK 21-00-00/201.
 - 2) Wait until the temperature has reached an appropriate level.
 - 3) Try again to start the software installation.
 - 4) If the software installation is successful, you corrected the fault.
 - 5) If the MAT again shows that no signal came back from the destination LRU, or the installation failed, then continue.
 - (d) Replace the LRU that no signal came back from.
 - 1) Try again to start the software installation.
 - 2) If the software installation continues, you corrected the fault.

————— END OF TASK —————

B39. Disk Drive Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) Make sure you use only high density disks (1.44 MB formatted for DOS) in the MAT disk drive.
NOTE: Use of disks that are not high density or not formatted for DOS can cause disk drive error messages.
 - (a) Open and close this circuit breaker:

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Open and close this circuit breaker:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

- (b) If no error message shows, you corrected the fault.
- (2) If DISK DRIVE NOT AVAILABLE shows on the MAT or maintenance device, SPL-5704, then do these steps:
 - (a) For a temporary solution, find the CMCF in control and put the other CMCF in control:
 - 1) Make these selections: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL.
 - a) If the display shows that the left CMCF is in control, select SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218) OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- <1> On the MATA AIMS Main Menu, select Interface R_AIMS.
- <2> Select ONBOARD MAINTENANCE.

ARO ALL

- b) If the display shows that the right CMCF is in control, select SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218) OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- <1> On the MATA AIMS Main Menu, select Interface L_AIMS.
- <2> Select ONBOARD MAINTENANCE.

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- 2) If you can now use the disk drive, then you temporarily corrected the problem.
- 3) To fully correct the problem, then continue.
- (b) Look at the Extended Maintenance, Existing Faults display on the MAT for maintenance messages related to these:
 - 1) ARINC 636
 - 2) Data Communication Management Function (DCMF)
- (c) If a related maintenance message shows in Existing Faults, then find the maintenance message in the applicable FIM Maintenance Message Index and do the specified task.
 - 1) If you can now use the disk drive with either the left or the right CMCF in control, you corrected the fault.

————— END OF TASK —————

B40. Hard Drive Selection Not Available - Fault Isolation

A. Fault Isolation Procedure

- (1) Install the correct OPC software in the CPM/Comm module from a disk. To install it, do this task: Core Processor Module/COMM Software Installation, AMM TASK 31-41-04-420-804.
 - (a) Try again to do the software installation.

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- (b) If Hard Drive shows on the Data Load display, you corrected the fault.

NOTE: The Hard Drive selection will not show on the Data Load display until the correct OPC is installed in the CPM/Comm module.

————— END OF TASK —————

B42. Menu Problems - Fault Isolation

A. Fault Isolation Procedure

- (1) If AIMS do not show on the MAT main menu, install the MATA OPS in the MAT.
 - (a) To install it, do this task: MAT – Software Installation, AMM TASK 45-11-05-470-801.

————— END OF TASK —————

B45. CMCF No Input from FSEU - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19931, 45-19933.

B. Fault Isolation Procedure

- (1) In the list below, find the LRU, the systems ARINC 629 bus, and the AIMS module for the applicable maintenance message.

MAINT MESSAGE	LRU	SYSTEMS ARINC 629 BUS	AIMS MODULE
45-19931	FSEU 1	left	IOM(M009)
45-19933	FSEU 2	right	IOM(M004)

- (2) Look at the Extended Maintenance, Existing Faults display on the MAT.
 - (a) Look in ATA system 27 High Lift System for these types of maintenance messages:
 - 1) The applicable FSEU has no output on the applicable system ARINC 629 bus.
 - 2) The applicable FSEU ARINC 629 data is invalid.
 - 3) The applicable FSEU has no output on any bus.
 - (b) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (c) If none of the maintenance messages given above show in Existing Faults, then continue.
 - (d) Look in ATA system 23 ARINC 629 Communication System for this type of maintenance message:
 - 1) The applicable system ARINC 629 bus is failed.
 - (e) If the maintenance message given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.

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- 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (f) If the maintenance message given above does not show in Existing Faults, then continue.
 - (g) Look at the top right corner of the Existing Faults display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (h) If the left CMCF is in control, look in ATA system 31 AIMS - Left AIMS.
 - (i) If the right CMCF is in control, look in ATA system 31 AIMS - Right AIMS.
 - (j) Look in the applicable ATA system for these types of maintenance messages:
 - 1) The applicable AIMS module has an ARINC 629 fault on the applicable system ARINC 629 bus.
 - 2) The applicable AIMS module has no output on the AIMS backplane.
 - 3) AIMS has no input from the applicable FSEU on the applicable system ARINC 629 bus.
 - 4) AIMS has no input from any LRU on the applicable system ARINC 629 bus.
 - (k) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
 - (l) If none of the maintenance messages given above show in Existing Faults, then continue.
- (3) Do this AIMS module reset:
- (a) If the left CMCF was in control when you looked at the display, make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (b) If the right CMCF was in control when you looked at the display, make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 1) On the MATA AIMS Main Menu, select Interface L_AIMS.
- 2) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 3) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 4) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.

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- 5) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - b) If the maintenance message shows, then continue.
- (4) Do this AIMS module reset:
 - (a) If the left CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS module: 31 AIMS - Left AIMS, System Test, IOM(applicable) in Left AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the right CMCF was in control when you looked at the display, do this ground test on the MAT for the applicable AIMS module: 31 AIMS - Right AIMS, System Test, IOM(applicable) in Right AIMS Module Reset.
 - 1) Try again to do the ground test that caused the maintenance message.
 - a) If the maintenance message does not show on the ground test display, you corrected the fault.

————— **END OF TASK** —————

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B46. CMCF to Integrated Standby Flight Display Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19589, 45-19590.

B. Initial Evaluation

- (1) If the MAT shows LATCHED for the maintenance message, then do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - (a) If the maintenance message shows on the ground test display, then do the Fault Isolation Procedure below.
 - (b) If the maintenance message does not show on the ground test display, then there was an intermittent fault.

C. Fault Isolation Procedure

- (1) Replace the IOM(M008) in the right AIMS cabinet.
These are the tasks:
Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,
Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.
 - (a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the maintenance message shows on the ground test display, then continue.
- (2) Replace the ISFD(N34004).
These are the tasks:
Integrated Standby Flight Display Removal, AMM TASK 34-24-02-000-801,
Integrated Standby Flight Display Installation, AMM TASK 34-24-02-400-801.
 - (a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the maintenance message shows on the ground test display, then continue.
- (3) Do this check of the wiring from the IOM(M008) to the ISFD(N34004):
 - (a) Remove the IOM(M008) from the right AIMS cabinet. To remove it, do this task: Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801.
 - (b) Remove the ISFD(N34004). To remove it, do this task: Integrated Standby Flight Display Removal, AMM TASK 34-24-02-000-801.
 - (c) Do a wiring check between these pins of the IOM connector J410 and pins of ISFD connector (WDM 34-24-15):

J410-A		DN34004
pin B7	pin M
pin A7	pin N
pin B6	pin M
pin A6	pin N

J410-B		DN34004
pin B2	pin M
pin A2	pin N

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- (d) If you find a problem with the wiring, then do these steps:
 - 1) Replace the wiring.
 - 2) Re-install the IOM(M008) into the right AIMS cabinet. To install it, do this task: Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.
 - 3) Re-install the ISFD(N34004). To install it, do this task: Integrated Standby Flight Display Installation, AMM TASK 34-24-02-400-801.
 - 4) If the maintenance message does not show on the ground test display, you corrected the fault.
 - 5) If the maintenance message show on the ground test display, continue.
- (4) Replace the IOM(M008) in the left AIMS cabinet.
These are the tasks:
Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,
Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.
 - (a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the maintenance message shows on the ground test display, then continue.
- (5) Replace the ISFD(N34004).
These are the tasks:
Integrated Standby Flight Display Removal, AMM TASK 34-24-02-000-801,
Integrated Standby Flight Display Installation, AMM TASK 34-24-02-400-801.
 - (a) If the maintenance message does not show on the ground test display, you corrected the fault.
 - (b) If the maintenance message shows on the ground test display, then continue.
- (6) Do this check of the wiring from the IOM(M008) to the ISFD(N34004):
 - (a) Remove the IOM(M008) from the left AIMS cabinet. To remove it, do this task: Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801.
 - (b) Remove the ISFD(N34004). To remove it, do this task: Integrated Standby Flight Display Removal, AMM TASK 34-24-02-000-801.
 - (c) Do a wiring check between these pins of the IOM connector J410 and pins of ISFD connector (WDM 34-24-15):

J410-A		DN34004
pin B7	.....	pin M
pin A7	.....	pin N

J410-B		DN34004
pin B2	.....	pin M
pin A2	.....	pin N
pin B3	.....	pin M
pin A3	.....	pin N

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

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- 2) Re-install the IOM(M008) into the left AIMS cabinet. To install it, do this task: Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.
- 3) Re-install the ISFD(N34004). To install it, do this task: Integrated Standby Flight Display Installation, AMM TASK 34-24-02-400-801.
- 4) If the maintenance message does not show on the ground test display, you corrected the fault.

————— END OF TASK —————

B47. CMCF to TBMU Tire Brake Monitor Unit Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-19779.

B. Possible Causes

- (1) No power at the terminal number 2 of the circuit breaker C32617 or C32618.
- (2) Defective tire and brake monitor unit (TBMU), M32490.
- (3) Defective ARINC 629 coupler, B32114, in the P115 panel .
- (4) Open Continuity between the connector DM32490AB at the E6-3 shelf and connector DB32114 at the P115 panel.
- (5) The Program pins are not in the correct configuration.

C. 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.

D. Fault Isolation Procedure

- (1) Do a check for 28 VDC at the load terminal number 2 of the circuit breakers C32617 and C32618WDM 32-46-11
 - (a) If a circuit breaker does not have 28 VDC at the terminal number 2, then replace the circuit breaker.
 - 1) Replace these circuit breakers:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
M	19	C32617	LG TIRE PRESSURE INDICATOR
N	28	C32618	LG BRAKE TEMP MONITOR

- 2) 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) If there is 28 VDC at the circuit breaker, then do these steps:
 - (2) Replace the tire and brake monitor unit (TBMU), M32490. These are the tasks:
 - Tire and Brake Monitoring Unit (TBMU) Removal, AMM TASK 32-49-04-000-801
 - Tire and Brake Monitoring Unit (TBMU) Installation, AMM TASK 32-49-04-400-801
 - (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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- (b) If the MAT shows ACTIVE for the maintenance message, then continue.
- (3) Replace the ARINC 629 coupler, B32114, in the P115 panel . These are the tasks:
ARINC 629 Current-Mode Coupler Removal, AMM TASK 23-91-01-000-801
ARINC 629 Current-Mode Coupler Installation, AMM TASK 23-91-01-400-801
NOTE: This coupler connects the TBMU to the Systems 629 Bus-L.
 - (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) Do a check of the wiring from the TBMU to the coupler:
 - (a) Remove the TBMU, M32490Tire and Brake Monitoring Unit (TBMU) Removal, AMM TASK 32-49-04-000-801
 - (b) Disconnect connector DB32114 from the coupler, B32114.
 - (c) Do a wiring check between these pins of connector DM32490AB at the E6-3 shelf and connector DB32114 at the P115 panel. WDM 32-49-13

DM32490AB	DB32114
pin 1TR	pin 1
pin 1T	pin 2
pin 2TR	pin 4
pin 2T	pin 5
 - (d) If you find a problem with the wiring, then do these steps:
 - 1) Replace the ARINC 629 wiring (SWPM 20-13-00).
 - 2) Re-connect connector DB32114.
 - 3) Re-install the TBMU, M32490Tire and Brake Monitoring Unit (TBMU) Installation, AMM TASK 32-49-04-400-801
 - 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.
- (5) Make sure that the Program pins are in the correct configuration. Brake Temperature Channel Program Pin Configuration Invalid - Fault Isolation, 32-46 TASK 813
Tire Pressure Channel Program Pin Invalid - Fault Isolation, 32-49 TASK 813
 - (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 —————

B48. CMCF cannot connect to CHS Master Control Panel (aft, fwd). LRU does not give a reply - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19592, 45-19593.

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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) Replace the left ARINC Signal Gateway (ASG) card, P84A12.

These are the tasks:

ARINC Signal Gateway (ASG) Card Removal, AMM TASK 31-09-02-000-801,
 ARINC Signal Gateway (ASG) Card Installation, AMM TASK 31-09-02-400-802.

- (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.
- (2) Replace the ARINC 629 coupler, B31201, in the P111 panel.

These are the tasks:

ARINC 629 Current-Mode Coupler Removal, AMM TASK 23-91-01-000-801,
 ARINC 629 Current-Mode Coupler Installation, AMM TASK 23-91-01-400-801.

NOTE: This coupler connects the left ASG card to the Systems 629 Bus-L.

- (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) Do this check of the wiring from the left ASG card to the coupler:
 - (a) Remove the left ASG card, P84A12. To remove it, do this task: ARINC Signal Gateway (ASG) Card Removal, AMM TASK 31-09-02-000-801.
 - (b) Disconnect connector DB31201 from the coupler, B31201.
 - (c) Do a wiring check between these pins of connector XA12 at the P84A12 slot and connector DB31201 at the P111 panel (SSM 31-09-22):

XA12	DB31201
pin 6	pin 1
pin 9	pin 2
pin 7	pin 4
pin 10	pin 5

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Replace the ARINC 629 wiring (SWPM 20-11-11).
 - 2) Re-connect connector DB31201.
 - 3) Re-install the left ASG card, P84A12. To install it, do this task: ARINC Signal Gateway (ASG) Card Installation, AMM TASK 31-09-02-400-802.
- (e) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

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B49. CMCF cannot connect to Nitrogen Generation System (NGS) or CSDS Controller Ch A. LRU does not give a reply - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-20005.

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) Replace the left ARINC Signal Gateway (ASG) card, P85A12.

These are the tasks:

ARINC Signal Gateway (ASG) Card Removal, AMM TASK 31-09-02-000-801,
ARINC Signal Gateway (ASG) Card Installation, AMM TASK 31-09-02-400-802.

- (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.
- (2) Replace the ARINC 629 coupler, B31101, in the P111 panel.

These are the tasks:

ARINC 629 Current-Mode Coupler Removal, AMM TASK 23-91-01-000-801,
ARINC 629 Current-Mode Coupler Installation, AMM TASK 23-91-01-400-801.

NOTE: This coupler connects the left ASG card to the Systems 629 Bus-L.

- (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) Do this check of the wiring from the left ASG card to the coupler:
 - (a) Remove the left ASG card, P85A12. To remove it, do this task: ARINC Signal Gateway (ASG) Card Removal, AMM TASK 31-09-02-000-801.
 - (b) Disconnect connector DB31101 from the coupler, B31101.
 - (c) Do a wiring check between these pins of connector XA12 at the P85A12 slot and connector DB31101 at the P111 panel (SSM 31-09-12):

XA12		DB31101
pin 6	.....	pin 1
pin 9	.....	pin 2
pin 7	.....	pin 4
pin 10	.....	pin 5

- (d) If you find a problem with the wiring, then do these steps:
 - 1) Replace the ARINC 629 wiring (SWPM 20-11-11).
 - 2) Re-connect connector DB31101.
 - 3) Re-install the left ASG card, P85A12. To install it, do this task: ARINC Signal Gateway (ASG) Card Installation, AMM TASK 31-09-02-400-802.

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- (e) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

B51. EICAS/CMCF Synchronization Issues - Fault Isolation

A. Possible Causes

- (1) The EICAS is not synchronized with the CMCF at power-up.

B. Fault Isolation Procedure

- (1) Open and close these circuit breakers:

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

- (2) Alternatively, the left and right AIMS cabinets can be reset:
(a) Airplane Information Management System (AIMS) - Operational Test, AMM TASK 31-41-00-710-801.

C. Repair Confirmation

- (1) Check the Flight Deck Effect titles and make sure "Text Not Available" does not display.

————— END OF TASK —————

| ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

B53. CMCF (Left) No Input from ACMF in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-12003.

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) Look at the Extended Maintenance, Existing Faults display on the MAT.
(a) Look in ATA system 31 AIMS - Left AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M004) in Left AIMS
 - b) IOM(M008) in Left AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:

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**ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218
(Continued)**

- a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - (b) Look in ATA system 31 AIMS - Right AIMS for these types of maintenance messages:
 - 1) One of these modules has no output on the AIMS backplane:
 - a) IOM(M003) in Right AIMS
 - b) IOM(M004) in Right AIMS
 - 2) An IOM has an AIMS intercabinet bus fault on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 3) The right AIMS has no input from the left AIMS on one of these busses:
 - a) AIMS Intercabinet Bus (3)
 - b) AIMS Intercabinet Bus (4)
 - 4) The right AIMS has no input from left AIMS on any AIMS Intercabinet Bus.
 - (c) If one of the maintenance messages given above shows in Existing Faults, then do these steps:
 - 1) Find the maintenance message in the applicable FIM Maintenance Message Index.
 - 2) Do the specified task for the maintenance message.
 - 3) Look at the maintenance message that this task is for.
 - 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 none of the maintenance messages given above show in Existing Faults, then continue.
- (2) Do these AIMS module resets:
- (a) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/STD(M002) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (b) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M004) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
 - (c) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M008) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218
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- (d) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/STD(M002) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (e) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (f) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M004) in Right AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (g) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.
 - 1) On the MATA AIMS Main Menu, select Interface R_AIMS.
 - 2) Select ONBOARD MAINTENANCE.
- (h) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— END OF TASK —————

B54. CMCF/QARF Internal Fault in Left AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-20101.

B. Fault Isolation Procedure

- (1) Replace the CPM/Comm(M001) module in the left AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM
TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM
TASK 31-41-04-400-802.

- (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.
- (2) Replace the IOM(M003) module in the left AIMS cabinet.

These are the tasks:

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**ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218
(Continued)**

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,
Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

B55. CMCF/QARF Internal Fault in Right AIMS - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-20102.

B. Fault Isolation Procedure

- (1) Replace the CPM/Comm(M001) module in the right AIMS cabinet.

These are the tasks:

Core Processor Module/Communication (CPM/Comm) Removal, AMM
TASK 31-41-04-000-802,

Core Processor Module/Communication (CPM/Comm) Installation, AMM
TASK 31-41-04-400-802.

- (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.
- (2) Replace the IOM(M003) module in the right AIMS cabinet.

These are the tasks:

Input/Output Module (IOM) Removal, AMM TASK 31-41-11-000-801,
Input/Output Module (IOM) Installation, AMM TASK 31-41-11-400-801.

- (a) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

————— **END OF TASK** —————

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816. **CMCF-MAT Interface Problems - Fault Isolation**

A. Maintenance Messages

- (1) This task is for maintenance message: 45-20003.

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

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (1) Do a reset of the CPM/Comm module that contains the CMCF that is in control:
 - (a) Look at the top right corner of the display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- a) On the MATA AIMS Main Menu, select Interface R_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.
- (c) If the right CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- a) On the MATA AIMS Main Menu, select Interface L_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.
NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.
- (d) Go back to the display that you looked at to see which CMCF was in control.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (2) Do a reset of the IOM module that contains the CMCF that is in control:
 - (a) Look at the top right corner of the display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- a) On the MATA AIMS Main Menu, select Interface R_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
- (c) If the right CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- a) On the MATA AIMS Main Menu, select Interface L_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
- (d) Go back to the display that you looked at to see which CMCF was in control.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (3) Open and close this circuit breaker:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

- (a) When the MAT menu shows, make these selections: ONBOARD MAINTENANCE, EXTENDED MAINTENANCE, EXISTING FAULTS, 45 Maintenance Access Terminal.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.

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- 2) If the MAT shows ACTIVE for the maintenance message, then continue.
- (4) Replace the Enhanced Electronic Module Unit (EEMU), M15671.

These are the tasks:

MAT Enhanced Electronic Modular Unit - Removal, AMM TASK 45-11-05-000-803,
MAT Enhanced Electronic Modular Unit - Installation, AMM TASK 45-11-05-400-803.

- (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** —————

826. CMCF-MAT Interface Problems On The PlaneNet - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance message: 45-20004.

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

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (1) Do a reset of the CPM/Comm module in the left AIMS that contains the CMCF that is in control:
 - (a) Look at the top right corner of the display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- a) On the MATA AIMS Main Menu, select Interface R_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.

NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- (c) If the right CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

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ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- a) On the MATA AIMS Main Menu, select Interface L_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
- (d) Go back to the display that you looked at to see which CMCF was in control.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (2) Do a reset of the IOM module in the left AIMS that contains the CMCF that is in control:
 - (a) Look at the top right corner of the display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- a) On the MATA AIMS Main Menu, select Interface R_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
- (c) If the right CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- a) On the MATA AIMS Main Menu, select Interface L_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
- (d) Go back to the display that you looked at to see which CMCF was in control.

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**ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218
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- 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
- 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- (3) Do a reset of the CPM/Comm module in the right AIMS that contains the CMCF that is in control:
 - (a) Look at the top right corner of the display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- a) On the MATA AIMS Main Menu, select Interface R_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) Do this ground test on the PMAT: 31 AIMS - Left AIMS, System Test, CPM/Comm(M001) in Left AIMS Module Reset.
NOTE: The CPM/Comm (M001) in Left AIMS Module Reset ground test must be started by the PMAT.

- (c) If the right CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 003 POST SB 777-31-0227 AND PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- a) On the MATA AIMS Main Menu, select Interface L_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 003 PRE SB 777-31-0263 AND PRE SB 777-31-0264 AND PRE SB 777-31-0218

- 2) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, CPM/Comm(M001) in Right AIMS Module Reset.
- (d) Go back to the display that you looked at to see which CMCF was in control.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- (4) Do a reset of the IOM module in the right AIMS that contains the CMCF that is in control:
- (a) Look at the top right corner of the display to see which CMCF (left or right) is in control. (The left CMCF is in control if this indication shows: This data is from Left CMCF.)
 - (b) If the left CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the right CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO RIGHT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- a) On the MATA AIMS Main Menu, select Interface R_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Do this ground test on the MAT: 31 AIMS - Left AIMS, System Test, IOM(M003) in Left AIMS Module Reset.
- (c) If the right CMCF was in control when you looked at the display, do this:
 - 1) Make these selections on the MAT to put the left CMCF in control: OTHER FUNCTIONS, CENTRAL MAINTENANCE COMPUTER SWITCH CONTROL, SWITCH TO LEFT.

ARO 001, 002, 004-999; ARO 003 (POST SB 777-31-0227 OR POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218) AND (POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218)

- a) On the MATA AIMS Main Menu, select Interface L_AIMS.
- b) Select ONBOARD MAINTENANCE.

ARO 001, 002, 004-999; ARO 003 POST SB 777-31-0263 OR POST SB 777-31-0264 OR POST SB 777-31-0218

- 2) Do this ground test on the MAT: 31 AIMS - Right AIMS, System Test, IOM(M003) in Right AIMS Module Reset.
- (d) Go back to the display that you looked at to see which CMCF was in control.
 - 1) If the MAT shows NOT ACTIVE for the maintenance message (or if the message does not show), you corrected the fault.
 - 2) If the MAT shows ACTIVE for the maintenance message, then continue.

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- (5) Replace the Enhanced Electronic Module Unit (EEMU), M15671.

These are the tasks:

MAT Enhanced Electronic Modular Unit - Removal, AMM TASK 45-11-05-000-803,

MAT Enhanced Electronic Modular Unit - Installation, AMM TASK 45-11-05-400-803.

- (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** —————

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830. MAT Display: Shows "AIMS Connection Failed 10 Times" -Fault Isolation

A. General

- (1) The "AIMS Connection Failed 10 times" dialog box displays on the Maintenance Access Terminal (MAT) during an Airplane Information Management System (AIMS) data load session or other Central Maintenance Computing Function (CMCF) operation. The occurrence of this dialog box indicates that the MAT cannot connect to the CMCF for the purpose of reporting MAT faults to the CMCF.
- (2) There is no Impact to the data load or CMCF function being performed when the lockup occurs.

B. Fault Isolation Procedure:

- (1) Push "OK" or "CONTINUE" as shown in the MAT dialog box.

NOTE: Action may need to be repeated multiple times as this message may appear multiple times.

————— END OF TASK —————

| ARO 014-999

831. Maintenance Access Terminal (MAT) CMCF Connection Problems - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-15581, 45-19770.

B. Description

- (1) This Task is for troubleshooting Maintenance Access Terminal (MAT) CMCF connectivity problems.

C. Possible Causes

- (1) CPM/COMM Module
- (2) MATA OPS
- (3) MAT EDU
- (4) Airplane Information Management System (AIMS) CMCF
- (5) MAT EEMU
- (6) Network File Server (NFS) (Hardware or Software)
- (7) Incorrect NED-DG OPS Part
- (8) Enhanced Electronic Module (EEMU), M15671
- (9) Wiring

D. Circuit Breakers

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

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2

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(Continued)

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

E. Related Data

- (1) WDM 46-13-11
- (2) WDM 46-13-12

F. Initial Evaluation

- (1) On the MAT, try to access the CMCF MAINTENANCE Menus.
 - (a) If the CMCF Main Menu shows and is functional, then there was an intermittent problem.
 - (b) If the CMCF Main Menu does not show, then do the Fault Isolation Procedure below.

G. Fault Isolation Procedure

- (1) Use the AIMS button to see if the MATA Main Menu is functional.
 - (a) If you see an error message on the EDU Screen, then re-install the MATA OPS. This is the task: MAT – Software Installation, AMM TASK 45-11-05-470-801.
 - (b) If the MATA Main Menu shows, continue.
- (2) Connect a Maintenance Laptop to the AIMS EE Bay Port and try to access the CMCF Main Menu.
 - (a) If the CMCF Main Menu does not show, cycle the applicable Left or Right AIMS circuit breakers:
 - 1) Open and close these circuit breakers:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
---	---	C46414	NED-DG
B	27	C46418	NFS - L

Overhead Circuit Breaker Panel, P11

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	12	C31609	AIMS L-1
B	13	C31611	AIMS L-2
B	14	C31617	AIMS L-3
B	15	C31619	AIMS L-4
F	12	C31610	AIMS R-1
F	13	C31612	AIMS R-2
F	14	C31618	AIMS R-3
F	15	C31620	AIMS R-4

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

ARO 014-999 (Continued)

This circuit breaker is inoperative and should remain open:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	11	C46419	NFS - R (INOP)

- a) If you have a connection between the Portable Maintenance Access Terminal (PMAT) and the Left (Right) Central Maintenance Computer (CMC), but not the other one, then replace the applicable CPM/COMM Module. These are the tasks:
 - Core Processor Module/Communication (CPM/Comm) Removal, AMM TASK 31-41-04-000-802
 - Core Processor Module/Communication (CPM/Comm) Installation, AMM TASK 31-41-04-400-802

<1> Do the Repair Confirmation at the end of this task.
- (b) If the CMCF Main Menu shows, continue.
- (3) Use the MAT to access the ONS MAINTENANCE Menus.
 - (a) If you cannot access the ONS MAINTENANCE Menus, do this step:
Open and close this circuit breaker:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

- 1) Do the Repair Confirmation at the end of this task.
- (b) If you can access the ONS MAINTENANCE Menus, continue.
- (4) Examine the NFS Front Panel and make sure that ALL Indicator Lights are Green and/or use a Maintenance Laptop to access the ONS MAINTENANCE Pages at the Flight Deck ONS Port to validate if the NFS is OK.
 - (a) If you cannot access the ONS, then an NFS Hardware problem or Software Configuration Error requires Load Room or Vendor Repair. Remove and replace the NFS. These are the tasks:
 - Network File Server Removal, AMM TASK 46-13-01-000-801-001
 - Network File Server Installation, AMM TASK 46-13-01-400-801-001
 - Network File Server Software Removal Procedure, AMM TASK 46-13-01-070-802
 - Network File Server Software Installation, AMM TASK 46-13-01-470-801
 - 1) Do the Repair Confirmation at the end of this task.
 - (b) If you can access the ONS with the a Maintenance Laptop, then do these steps:
 - 1) Make sure that the NFS Software is correct. This is the task: Network File Server Software Check, AMM TASK 46-13-01-860-801.
 - 2) Make sure that the NED-DG Software Configuration is correct. This is the task: Network Extension Device Software Check, AMM TASK 46-13-02-720-802.
 - a) If no NED-DG Software is reported, continue.
 - 3) Use INPUT MONITORING to make sure that the interfaces that follow are UP:

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45-11 TASK 831

D633W103-ARO



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FAULT ISOLATION MANUAL

ARO 014-999 (Continued)

- a) NFS to MAT
 - <1> If the interface is DOWN, examine and repair the applicable wiring as necessary.

- b) NFS to NED-DG
 - <1> If the interface is DOWN, and no NED-DG Software was reported above, put the Load Mode Switch to LOAD and cycle this circuit breaker to put the NED-DG to LOAD Mode:
 - <2> Open and close this circuit breaker:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
---	---	C46414	NED-DG

- <a> If the NFS to NED-DG Interface changes to UP, then the NED-DG OPS Part is possibly incorrect. Load the NED-DG OPS part to the NED-DG per the SLUG. This is the task: Network Extension Device Software Installation, AMM TASK 46-13-02-470-801.

- If the NFS to NED-DG Interface is still down, or unable to load, examine and repair the wiring as necessary. If the wiring is OK, replace the NED-DG. These are the tasks:

- Network Extension Device Removal, AMM TASK 46-13-02-000-801
- Network Extension Device Installation, AMM TASK 46-13-02-400-801

- c) NED-DG to Left AIMS and NED-DG to Right AIMS

- <1> If the NED-DG to the Left or Right AIMS Interface is DOWN, examine and repair the wiring as necessary.
- <2> If no interface was reported, but valid NED-DG S/W Part Numbers were confirmed, make sure that the NED-DG is not in the LOAD Mode:
 - <a> Make sure that the Load Mode Switch is in the NORMAL Position.
- <3> Open and close this circuit breaker:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
---	---	C46414	NED-DG

- (c) If the NFS and NED-DG are satisfactory, then do this step:

- 1) Open and close these circuit breakers:

Left Power Management Panel, P110

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	27	C46418	NFS - L

EFFECTIVITY ARO ALL

45-11 TASK 831



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ARO 014-999 (Continued)

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	17	C46602	MAINT ACCESS TERM

This circuit breaker is inoperative and should remain open:

Right Power Management Panel, P210

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	11	C46419	NFS - R (INOP)

- a) Do the Repair Confirmation at the end of this task.
- (5) Replace the Enhanced Electronic Module (EEMU), M15671. These are the tasks:
- MAT Enhanced Electronic Modular Unit - Removal, AMM TASK 45-11-05-000-803
 - MAT Enhanced Electronic Modular Unit - Installation, AMM TASK 45-11-05-400-803

H. Repair Confirmation

- (1) On the MAT, try to access the CMCF MAINTENANCE Menus.
- (a) If the CMCF Main Menu shows and is functional, then you corrected the problem.
- (b) If the CMCF Main Menu does not show, then continue the Fault Isolation Procedure at the subsequent step.

————— END OF TASK —————

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FAULT ISOLATION MANUAL**

801. Procedure To Be Determined - Fault Isolation

A. Maintenance Messages

- (1) This task is for maintenance messages: 45-19971, 45-19979, 45-19980, 45-19981, 45-19982, 45-19987, 45-19988, 45-19989, 45-19993.

B. Fault Isolation Procedure

- (1) At this time the FIM does not have a procedure for this fault. The FIM will contain a procedure for this fault in the future.

————— **END OF TASK** —————

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