

CHAPTER

44

CABIN SYSTEMS



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SERVER BASED ENTERTAINMENT SYSTEM - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Server Based Entertainment System Deactivation
- (2) Server Based Entertainment System Activation

SIA 001-014

- (3) Passenger Service Unit (PSU) Digital Overhead Monitor (DOM) Deactivation/Activation Procedure

SIA ALL

- (4) Server Based Entertainment System Software Configuration Check
- (5) Server Based Entertainment System Software Load

TASK 44-21-00-040-801

2. Server Based Entertainment System Deactivation

A. **General**

- (1) This task has instructions to deactivate the Server Based Entertainment System.

B. **Deactivate Server Based Entertainment System**

SUBTASK 44-21-00-040-001

- (1) Deactivate the server based In-Flight Entertainment (IFE) system.
 - (a) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	9	C01945	IFE AC
B	10	C01952	IFE DC

SIA 001-014

SUBTASK 44-21-00-040-002

- (2) Deactivate the video monitors.
 - (a) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C01981	VIDEO 1
D	6	C01980	VIDEO 2
D	7	C01983	VIDEO 3
D	8	C01982	VIDEO 4

SIA ALL

SUBTASK 44-21-00-040-003

- (3) Deactivate the passenger seat power.

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- (a) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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SIA 015-999

A	14	C01645	SEAT POWER AFT
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SIA ALL

A	17	C01644	SEAT POWER FWD
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SUBTASK 44-21-00-480-001

- (4) Make sure that the overhead panel P5-13, IFE/PASS SEAT switch is OFF.

————— **END OF TASK** —————

TASK 44-21-00-440-801

3. Server Based Entertainment System Activation

A. General

- (1) This task has instructions to activate the Server Based Entertainment System.

B. Activate Server Based Entertainment System

SUBTASK 44-21-00-440-001

- (1) Activate the server based In-Flight Entertainment (IFE) system.

- (a) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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B	9	C01945	IFE AC
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B	10	C01952	IFE DC
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SIA 001-014

SUBTASK 44-21-00-440-002

- (2) Activate the video monitors.

- (a) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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D	5	C01981	VIDEO 1
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D	6	C01980	VIDEO 2
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D	7	C01983	VIDEO 3
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D	8	C01982	VIDEO 4
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SIA ALL

SUBTASK 44-21-00-440-003

- (3) Activate the passenger seat power.

- (a) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
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SIA 015-999

A	14	C01645	SEAT POWER AFT
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F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
SIA ALL			
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-00-080-001

- (4) Make sure that the overhead panel P5-13, IFE /PASS SEAT switch is ON.

————— END OF TASK —————

SIA 001-014

TASK 44-21-00-850-801

4. Passenger Service Unit (PSU) Digital Overhead Monitor (DOM) Deactivation/Activation Procedure

A. General

- (1) This task has instructions to deactivate and activate each Passenger Service Unit (PSU) Digital Overhead Monitor (DOM).

B. Location Zones

<u>Zone</u>	<u>Area</u>
231	Forward Passenger Compartment - Forward Entry Door to STA 663.75 - Left
232	Forward Passenger Compartment - Forward Entry Door to STA 663.75 - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

C. PSU DOM Deactivate/Reactivate Procedure

SUBTASK 44-21-00-040-008

- (1) Do these steps to deactivate the PSU DOM:

- (a) Push the manual reset button located in the hole on the front of the PSU panel forward of the DOM.

NOTE: The button pushed once to remove power.

- (b) Make sure that the DOM fully retracts and stows.

SUBTASK 44-21-00-440-031

- (2) Do these steps to reactivate the PSU DOM:

- (a) Push the manual reset button in the hole on the front of the PSU panel forward of the DOM.

NOTE: The button pushed twice to supply power.

- (b) Make sure that the DOM fully deploys and displays video picture.

————— END OF TASK —————

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TASK 44-21-00-860-801

5. Server Based Entertainment System Configuration Check

(Figure 201)

A. General

- (1) This task has instructions to do a configuration check of the server based entertainment system from the crew terminal.

B. Configuration Check

SUBTASK 44-21-00-850-001

- (1) On the Forward Attendant Control Panel (ACP), push the PASSENGER SERVICES button.

NOTE: Wait approximately 8-10 minutes for the crew terminal to boot-up.

- (a) Make sure that the CABIN MAINTENANCE screen is shown on the crew terminal.

SUBTASK 44-21-00-850-002

- (2) On the CABIN MAINTENANCE screen, select the Configuration menu.

- (a) On the Configuration menu, select the Config Check menu.

- 1) Make sure that the CONFIG CHECK SUMMARY screen is shown.

NOTE: This may take two minutes to complete.

- (b) On the CONFIG CHECK SUMMARY screen, make sure that the part number and software version compare with the current Software Configuration Index (SCI).

- 1) Make sure that the part number and version is updated.

- (c) On the CONFIG CHECK SUMMARY screen, select the Details button.

- 1) Make sure that the CONFIG CHECK DETAILS screen is shown.

SUBTASK 44-21-00-470-001

- (3) If the status of the part numbers are not shown activated, do this task: Server Based Entertainment System Software Load, TASK 44-21-00-470-801.

———— **END OF TASK** ————

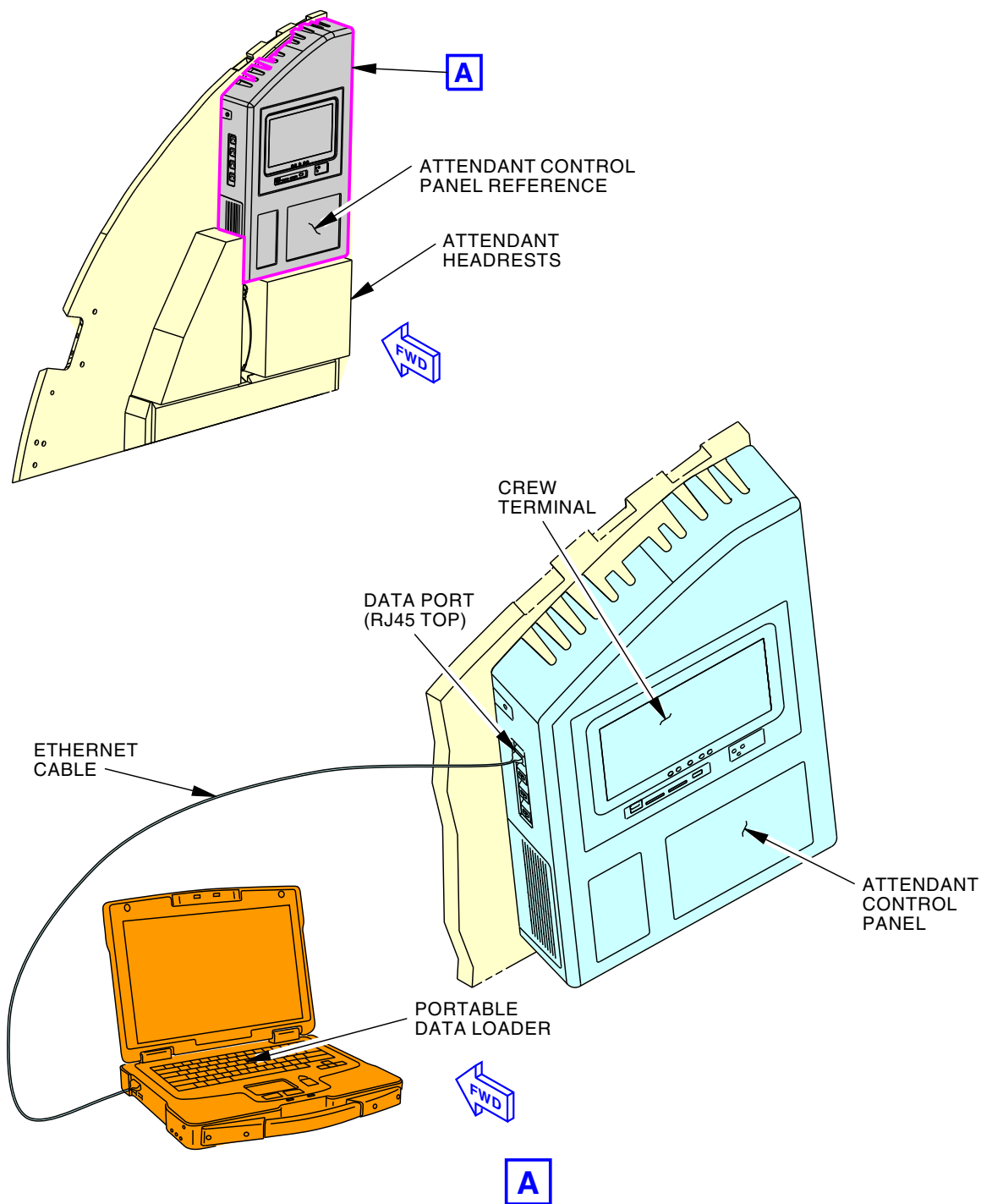
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Server Based Entertainment System Software Load
Figure 201/44-21-00-990-824

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TASK 44-21-00-470-801

6. Server Based Entertainment System Software Load

(Figure 201)

A. General

- (1) This task has instructions to do a software load of the server based entertainment system.

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-14397	Data Loader - Portable, Model PL500 Part #: 129530-01 Supplier: 4PXG7

C. Software Load

SUBTASK 44-21-00-420-001

- (1) Connect a PL500 portable data loader, SPL-14397 to the data port on the crew terminal.

SUBTASK 44-21-00-070-009

- (2) To remove (clean up) the system/core software, do these steps:
- On the CABIN MAINTENANCE screen, select the Loading menu.
 - On the Loading menu, select the Clean Up Software menu.
 - On the Clean Up Software menu, select the applicable clean level.

NOTE: A clean level 1 and 5 requires no load.

A clean level 2 requires a system/core and content load.

A clean level 3 requires a content load.

A clean level 4 requires a system/core, media, and content load.

- On the Clean Up Software menu, select the Clean Up button.
 - Make sure that the pop-up window is shown.
- Select the Yes button.
 - Make sure that the applicable software is removed.
- Close the pop-up window.
- Re-boot the system.

SUBTASK 44-21-00-470-026

- (3) To load the system software, do these steps:
- On the CABIN MAINTENANCE screen, select the Loading menu.
 - On the Loading menu, select the LOAD SOFTWARE menu.
 - On the Load Software menu, select the applicable Load Source.
 - On the Load Software menu, select the Get Software List.
 - Make sure that the Status column shows NA for the software components to be loaded.

NOTE: NA shows that the software is not active and ready to load.

- On the Load column, select the NA software components to load.

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- 1) Make sure that the check mark is shown for selected software components.
- (f) On the Load column, select the Activate button.
 - 1) Make sure that the load is 100%.

NOTE: The status column shows previous software kits as STAGED and new software kits as ACTIVATED.

- (g) Re-boot the system, do the configuration check (TASK 44-21-00-860-801).
 - 1) Make sure that the LRU Config button is selected.
- (h) On the LMS CONFIG LRU screen, make sure that the LRUs show PASS.

SUBTASK 44-21-00-070-006

- (4) To remove the software, do these steps:
 - (a) On the CABIN MAINTENANCE screen, select the Loading menu.
 - (b) On the Loading menu, select the LOAD SOFTWARE screen.
 - (c) On the Load Software screen, select the software components to remove.
 - 1) Make sure that the check mark is shown for applicable software components.
 - (d) On the Load Software screen, select remove button.
 - 1) Make sure that the applicable software components is removed.

SUBTASK 44-21-00-470-027

- (5) To load the media, do these steps:
 - (a) On the CABIN MAINTENANCE screen, select the Loading menu.
 - (b) On the Loading menu, select the LMS Media Content Load menu.
 - (c) On the LMS Media Content Load screen, make sure that the NA is shown in the status column.

NOTE: NA shows that the media is not loaded and is ready to load.
 - (d) On the Load column, select the applicable NA media components.
 - (e) On the Load column, select the Start button.
 - 1) Make sure that the applicable media components shows activated.
 - (f) Reboot the system.

SUBTASK 44-21-00-070-007

- (6) To remove the media, do these steps:
 - (a) On the CABIN MAINTENANCE screen, select the Loading menu.
 - (b) On the Loading menu, select the LMS Media Content Load menu.
 - (c) On the LMS Media Content Load screen, select the applicable media components to remove.
 - 1) Make sure that the check mark is shown for applicable media components.
 - (d) On the LMS Media Content Load screen, select the Start button.
 - 1) Make sure that the applicable media components is removed.

SUBTASK 44-21-00-470-028

- (7) To load the content, do these steps:
 - (a) On the CABIN MAINTENANCE screen, select the Loading menu.



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- (b) On the LMS Media Content Load screen, make sure that the NA is shown in the status column.

NOTE: NA shows that the content is not active and is ready to load.

- (c) On the Load column, select the content load.
- (d) Select the Start button.
 - 1) Make sure that the Status column shows activated.
- (e) Re-boot the system.

SUBTASK 44-21-00-070-008

- (8) To remove the content, do these steps:
 - (a) On the CABIN MAINTENANCE screen, select the Loading menu.
 - (b) On the Loading menu, select the LMS Media Content Load menu.
 - (c) On the LMS Media Content Load screen, select the applicable content components to remove.
 - (d) Select the Start button.
 - 1) Make sure that the applicable content components is removed.
 - (e) Make sure that the Status column shows NA .

NOTE: NA shows when the media/content is removed.

SUBTASK 44-21-00-020-005

- (9) Disconnect a PL500 portable data loader, SPL-14397 to the data port on the crew terminal.

————— END OF TASK —————

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SERVER BASED ENTERTAINMENT SYSTEM - ADJUSTMENT/TEST

1. General

A. This procedure has these tasks:

- (1) Video Entertainment System (BITE) Test

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- (2) Digital Overhead Monitor Power On Test

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- (3) Data and Media Port Ping Test
- (4) Passenger Seat Power On Test
- (5) Video Entertainment System - System Test.

TASK 44-21-00-740-801

2. Video Entertainment System (BITE) Test

A. **General**

- (1) This task has instructions to do a video entertainment system (BITE) test.

B. **Video Entertainment System (BITE) Test**

SUBTASK 44-21-00-740-006

- (1) To do the Quick Test (BITE), do these steps:
 - (a) On the CABIN MAINTENANCE screen, select the System Tests menu.
 - (b) On the System Test menu, select the Start Quick Test button.
 - 1) Make sure that the QUICK TEST screen is shown.
 - (c) On the QUICK TEST screen, select the Details button.
 - 1) Make sure that the QUICK TEST DETAILS screen is shown.

SUBTASK 44-21-00-740-007

- (2) To do the All Test (BITE), do these steps:
 - (a) On the CABIN MAINTENANCE screen, select the System Tests menu.
 - (b) On the System Test menu, select the Start All Test button.
 - 1) Make sure that the ALL TEST screen is shown.
 - (c) On the ALL TEST screen, select the Details button.
 - 1) Make sure that the ALL TEST DETAILS screen is shown.

————— **END OF TASK** —————

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TASK 44-21-00-710-801

3. Digital Overhead Monitor Power On Test

A. **General**

- (1) This task has instructions to does a power on test for the video monitors:
 - (a) Video Monitor Power On Test
 - (b) Data and Media Port Ping Test.

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B. Prepare for the Test

SUBTASK 44-21-00-850-004

(1) Energize the IFE system as follows:

- (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

SUBTASK 44-21-00-850-005

(2) Make sure that the CABIN MAINTENANCE screen is shown on the Crew Terminal (CT).

NOTE: The Crew Terminal will boot up in 6–8 minutes.

SUBTASK 44-21-00-850-006

(3) On the CABIN MAINTENANCE screen, select SEAT FUNCTIONS from the menu.

- (a) On the SEAT FUNCTIONS screen, select READDRESS from the menu.

- 1) Make sure that the Seat Redundancy is set to OFF.

- (b) On the READDRESS screen, select the IS to 1 and PORT to 17.

- 1) Select the READDRESS button from the menu.

- (c) Make sure that “Readdress Completed” is shown the READDRESS screen.

- (d) Select CLOSE from the menu.

- (e) Select DETAILS from the menu.

- 1) Make sure that the READDRESS results is shown on the DETAILS screen.

COLUMN	SEBS	PORT	STATUS
0	8	17	PASS

- (f) Select BACK ARROW from the menu.

- (g) On the READDRESS screen, set the IS to 1 and PORT to 18.

- 1) Select READDRESS from the menu.

- (h) Make sure that “Readdress Completed” is shown in the READDRESS screen.

- (i) Select CLOSE from the menu.

- (j) Select DETAILS from the menu.

- 1) Make sure that the READDRESS results is shown on the DETAILS screen.

COLUMN	SEBS	PORT	STATUS
0	8	18	PASS

- (k) On the READDRESS screen, select STOP from the menu.

- (l) On the READDRESS screen, select MAINTENANCE MENU from the menu.

- 1) Make sure that the MAINTENANCE MENU screen is shown.

SUBTASK 44-21-00-850-007

(4) On the CABIN MAINTENANCE screen, select SYSTEM MAINT from the menu.

- (a) On the SYSTEM MAINT screen, select FLIGHT STATE from the menu.

- 1) Make sure that the FLIGHT STATE is OPEN.

C. Video Monitor Power On Test

SUBTASK 44-21-00-850-008

(1) On the CABIN MAINTENANCE menu, select System Maint button.

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- (a) On the System Maint screen, select VIDEO PA button.
- (b) On the VIDEO PA screen, select Video Test File from the SELECT SOURCE list.
- (c) On the VIDEO PA screen, select ASSIGN VPA button.
 - 1) Make sure that all video monitors deploy.

NOTE: The video monitors will deploy in 1 minute.

- (d) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	8	C01982	VIDEO 4

- 1) Make sure that the video monitors are OFF.

- (e) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	7	C01983	VIDEO 3

- 1) Make sure that the video monitors are OFF.

- (f) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	6	C01980	VIDEO 2

- 1) Make sure that the video monitors are OFF.

- (g) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C01981	VIDEO 1

- 1) Make sure that the video monitors are OFF.

SUBTASK 44-21-00-850-009

- (2) On the VIDEO PA screen, select STOP VPA from the menu.

SUBTASK 44-21-00-860-001

- (3) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C01981	VIDEO 1
D	6	C01980	VIDEO 2
D	7	C01983	VIDEO 3
D	8	C01982	VIDEO 4

SUBTASK 44-21-00-850-010

- (4) On the SELECT SOURCE menu, select any Video Test File.
 - (a) On the SELECT SOURCE menu, select ASSIGN VPA.
 - 1) Make sure that all overhead monitors deploy.

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SUBTASK 44-21-00-850-011

- (5) On the VIDEO PA screen, select the STOP VPA from the menu.

- (a) Make sure that all video monitors retract.

NOTE: All media shall stop from all zones.

D. Data and Media Port Ping Test

SUBTASK 44-21-00-720-001

- (1) Do this task: Data and Media Port Ping Test, TASK 44-21-00-710-802.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-850-012

- (1) Set the overhead panel P5-13, IFE/PASS SEAT switch to OFF.

- (a) Make sure that the Crew Terminal screen does not respond to touch.

————— END OF TASK —————

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TASK 44-21-00-710-802

4. Data and Media Port Ping Test

A. General

- (1) This task has instructions to check the operation of the data and media port.

B. Data Port Operational Test

SUBTASK 44-21-00-420-002

- (1) Connect a Personal Electronic Device (PED) with an Ethernet cable to the applicable data port.

NOTE: The inline coupler is on the side of the crew terminal.

- (a) Make sure that the PED has power and a applicable login.

SUBTASK 44-21-00-850-013

- (2) On the PED, select the applicable IP.

NOTE: The Set IP pop-up window is shown on the screen.

- (a) Select the PING button.

- 1) Make sure that the applicable Ping Statistics is shown on the screen.

- (b) Push the OK button.

- 1) Make sure that the PING report window closes.

SUBTASK 44-21-00-020-001

- (3) Disconnect the PED Ethernet cable from the applicable data port.

————— END OF TASK —————

TASK 44-21-00-710-805

5. Passenger Seat Power On Test

A. General

- (1) This task has instructions to do the following:

- (a) MCU Port Power Test.

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- (b) AC Outlet Unit Test.
- (c) RJM Port Test.

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B. Prepare for the Test

SUBTASK 44-21-00-850-050

- (1) Energize the PC power system as follows:
 - (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

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- (b) Make sure that the Forward Attendant Control Panel (ACP), PED outlet power is set to ON.

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SUBTASK 44-21-00-850-052

- (2) Make sure that the CABIN MAINTENANCE screen is shown on the Crew Terminal (CT).
NOTE: The crew terminal will boot up in 8-10 minutes.

C. MCU Port Power Test

SUBTASK 44-21-00-850-053

- (1) On the CABIN MAINTENANCE screen, select the SEAT FUNCTIONS from the menu.
 - (a) On the SEAT FUNCTIONS screen, select the READDRESS from the menu.
 - 1) Make sure that the Seat Redundancy is set to OFF.
 - (b) On the READDRESS screen, select the IS to 1 and PORT to 8.
 - 1) Select the READDRESS button from the menu.
 - (c) Make sure that "Readdress Completed" is shown on the READDRESS screen.
 - (d) Select the CLOSE from the menu.
 - (e) Select the DETAILS from the menu.
 - 1) Make sure that the READDRESS results is shown on the DETAILS screen.

COLUMN	SEBS	PORT	STATUS
0	31	8	PASS

- (f) Select the BACK ARROW from the menu.
- (g) On the READDRESS screen, set the IS to 1 and PORT to 9.
 - 1) Select the READDRESS button from the menu.
- (h) Make sure that "Readdress Completed" is shown in the READDRESS screen.
- (i) Select the CLOSE from the menu.
- (j) Select the DETAILS from the menu.
 - 1) Make sure that the READDRESS results is shown on the DETAILS screen.

COLUMN	SEBS	PORT	STATUS
0	31	9	PASS

- (k) On the READDRESS screen, select the STOP button from the menu.
- (l) On the READDRESS screen, select the MAINTENANCE MENU from the menu.

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- 1) Make sure that the MAINTENANCE MENU screen is shown.
- (m) On the MAINTENANCE MENU screen, select the SEAT FUNCTIONS button.
- (n) On the SEAT FUNCTIONS screen, select the MCU PORT POWER button.
- (o) On the MCU PORT POWER screen, set the MCU to 1 and PORT to 1.
- (p) On the Forward ACP, select the POWER OFF button.
 - 1) Make sure that the applicable passenger seats does not have power.
- (q) On the MCU PORT POWER screen, set the MCU to 1 and PORT to 2.
- (r) On the Forward ACP, select the POWER OFF button.
 - 1) Make sure that the applicable passenger seats does not have power.
- (s) On the MCU PORT POWER screen, set the MCU to 1 and PORT to 3.
- (t) On the Forward ACP, select the POWER OFF button.
 - 1) Make sure that the applicable passenger seats does not have power.
- (u) On the MCU PORT POWER screen, set the MCU to 1 and PORT to 4.
- (v) On the Forward ACP, select the POWER OFF button.
 - 1) Make sure that the applicable passenger seats does not have power.
- (w) On the MCU PORT POWER screen, set the MCU to 1 and PORT to ALL.
- (x) On the Forward ACP, select the POWER ON button.
 - 1) Make sure that the applicable passenger seats have power.

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D. AC Outlet Unit Test

SUBTASK 44-21-00-210-005

- (1) Make sure that the IN-USE LIGHT on the applicable passenger seat is ON.

SUBTASK 44-21-00-420-005

- (2) Connect a Personal Electronic Device (PED) to the outlet unit in an applicable passenger seat.
 - (a) Make sure that the outlet unit LED is GREEN.

E. RJM Port Test

SUBTASK 44-21-00-210-006

- (1) Make sure that the RJM port LED is GREEN.

SUBTASK 44-21-00-420-006

- (2) Connect a PED to the RJM port in an applicable passenger seat.
 - (a) Make sure that the RJM port LED is BLUE.

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F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-850-054

- (1) Set the overhead panel P5-13, IFE/PASS SEAT switch to OFF.
 - (a) Make sure that the LED indicator in the applicable passenger seat is OFF.

———— **END OF TASK** ————

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TASK 44-21-00-730-801

6. Video Entertainment System - System Test

A. General

- (1) This task has instructions to do a Video Entertainment System Test:
 - (a) Keyline and Physical Discrete Interface Test
 - (b) Passenger Flight Information System Test
 - (c) Boarding Music Test
 - (d) PRAM Announcement Test
 - (e) Passenger Seat PRAM Announcement Test

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- (f) Overhead Video Test
- (g) Video Announcement Test

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- (h) Decompression Test.

B. References

Reference	Title
46-13-02-710-801	Onboard Maintenance Function Ground Test (P/B 201)

C. Prepare for the Test

SUBTASK 44-21-00-850-014

- (1) Energize the IFE system as follows:
 - (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

SUBTASK 44-21-00-850-016

- (2) Make sure that the CABIN MAINTENANCE screen is shown on the Crew Terminal (CT).
NOTE: The crew terminal will boot up in 8-10 minutes.

SUBTASK 44-21-00-850-017

- (3) On the CABIN MAINTENANCE screen, select SYSTEM MAINT from the menu.
 - (a) On the SYSTEM MAINT screen, select FLIGHT STATE from the menu.
 - 1) Make sure that the FLIGHT STATE is OPEN.

D. Keyline and Physical Discrete Interface Test

SUBTASK 44-21-00-710-001

- (1) On the CABIN MAINTENANCE screen, select SYSTEM STATUS from the menu (TASK 46-13-02-710-801).
 - (a) On the SYSTEM STATUS screen, select DISCRETE/COMM STATUS from the menu.
NOTE: The status of the discrete signals are shown on the DISCRETE/COMM STATUS screen.

It may take 15 to 35 seconds before the change of state is reported at the DISCRETE/COMM STATUS screen. The screen needs to be refreshed to update the status reported before verifying the discrete signal change of state.
 - (b) On the DISCRETE/COMM STATUS screen, make sure that the WEIGHT_ON_WHEELS discrete status is shown GROUNDED.
NOTE: The following steps will check the AIR/GROUND keyline.

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- (c) On the maintenance control panel, set the GND TESTS switch to ENABLE.
- (d) On the multi-function panel, select SYS.
- (e) On the multi-function panel, select MAINT.
- (f) On the multi-function panel, select ONBD MAINT.
- (g) On the multi-function panel, select OTHER FUNCTIONS.
- (h) On the multi-function panel, select SPECIAL FUNCTIONS.
- (i) On the multi-function panel, select ATA SYSTEM 32.
- (j) On the multi-function panel, select PSEU.
- (k) On the multi-function panel, select CONTINUE.
- (l) On the multi-function panel, select AIR/GND OVERRIDE.
- (m) On the multi-functional panel, select CONTINUE.
- (n) On the multi-function panel, select START FUNCTION.
- (o) On the multi-function panel, set SYS 1 and SYS 2 to IN AIR.
- (p) On the multi-function panel, select CONTINUE.
 - 1) Make sure that the WEIGHT_ON_WHEELS discrete status is shown OPEN.
- (q) On the multi-function panel, set SYS 1 and SYS 2 to GND.
- (r) On the multi-function panel, select CONTINUE.
 - 1) Make sure that the WEIGHT_ON_WHEELS discrete status is shown GROUNDED.
- (s) Close and Lock the Left FWD ENTRY DOOR.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that ALL_DOOR_CLOSED discrete status is shown GROUNDED.
- (t) Open the Left FWD ENTRY DOOR.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that the ALL_DOOR_CLOSED discrete status is shown OPEN.
- (u) Set the PARKING BRAKE.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that the PARKING_BRAKE_SET discrete status is shown GROUNDED.
- (v) Release the PARKING BRAKE.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that the PARKING_BRAKE_SET discrete status is shown OPEN.

SUBTASK 44-21-00-710-029

- (2) On the CABIN MAINTENANCE screen, select SYSTEM STATUS from the menu.
 - (a) On the SYSTEM STATUS screen, select DISCRETE/COMM STATUS from the menu.

NOTE: The status of the discrete signals are shown on the DISCRETE/COMM STATUS screen.

It may take 15 to 35 seconds before the change of state is reported at the DISCRETE/COMM STATUS screen. The screen needs to be refreshed to update the status reported before verifying the discrete signal change of state.

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- (b) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00458	ENGINE 1 IGNITION RIGHT
A	3	C00153	ENGINE 1 IGNITION LEFT

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C00459	ENGINE 2 IGNITION RIGHT
D	6	C00151	ENGINE 2 IGNITION LEFT

NOTE: The following steps will check the ENGINE ON/OFF keyline.

- (c) Make sure that the ENG 1 START LEVER and ENG 2 START LEVER are at CUTOFF.
(d) Make sure that the ENG 1 START and ENG 2 START switches are OFF.
(e) Make sure that the ENG 1 FIRE HANDLE and ENG 2 FIRE HANDLE are not pulled.
(f) Make sure that the airplane is in ground mode.
(g) Make sure the Auxiliary Power Unit (APU) is OFF.
(h) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C01316	ENGINE 1 START LEVER CHAN A
B	3	C01312	ENGINE 1 RUN/PWR

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	5	C01313	ENGINE 2 RUN/PWR
B	6	C01318	ENGINE 2 START LEVER CHAN A

- (i) On the DISCRETE/COMM STATUS screen, make sure that the ENGINE_OFF discrete status is shown GROUNDED.
(j) Move the ENG 1 START LEVER and ENG 2 START LEVER to the IDLE position.
1) Make sure to wait 5 minutes.
(k) On the DISCRETE/COMM STATUS screen, make sure that the ENGINE_OFF discrete status is shown OPEN.
1) Make sure to refresh the DISCRETE/COMM STATUS screen.
(l) Move the ENG 1 START LEVER and ENG 2 START LEVER to CUTOFF.
(m) On the DISCRETE/COMM STATUS screen, make sure that the ENGINE_OFF discrete status is shown GROUNDED.
(n) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00458	ENGINE 1 IGNITION RIGHT
A	3	C00153	ENGINE 1 IGNITION LEFT

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F/O Electrical System Panel, P6-2

Row	Col	Number	Name
D	4	C00459	ENGINE 2 IGNITION RIGHT
D	6	C00151	ENGINE 2 IGNITION LEFT

SUBTASK 44-21-00-710-024

- (3) Set the overhead panel P5, FASTEN SEAT BELT switch to ON.

NOTE: FASTEN SEAT BELT DISCRETE TEST (ACTIVATED)

- (a) On the DISCRETE/COMM STATUS screen, make sure that the FASTEN_SEAT_BELT discrete status is shown GROUNDED.

NOTE: The FASTEN SEAT BELT audio announcement may be heard on the Passenger Address (PA) speakers.

SUBTASK 44-21-00-710-025

- (4) Set the overhead panel P5, FASTEN SEAT BELT switch to OFF.

- (a) On the DISCRETE/COMM STATUS screen, make sure that the FASTEN_SEAT_BELT discrete status is shown OPEN.

- 1) Make sure that the Fasten Seat Belt audio announcement is not heard on the PA speakers.

SUBTASK 44-21-00-710-026

- (5) Set the overhead panel P5, NO SMOKING switch to ON.

NOTE: NO SMOKING DISCRETE (CAP AND STOW TEST)

- (a) On the DISCRETE/COMM STATUS screen, make sure that the NO_SMOKING discrete status is shown OPEN.

- 1) Make sure that the No Smoking audio announcement is not heard on the PA speakers.

SUBTASK 44-21-00-710-027

- (6) Set the overhead panel P5, NO SMOKING switch to OFF.

- (a) Make sure that the NO_SMOKING discrete status on the CT is shown OPEN.

E. Boarding Music Test

SUBTASK 44-21-00-710-003

- (1) On the CABIN MAINTENANCE screen, select the System Maint from the menu..

- (a) On the System Maint screen, select BGM from the menu.
(b) On the BGM screen, select any file from the SELECT SOURCE list.
(c) On the SELECT SOURCE list, select ALLZONE from the SELECT ZONE list.
(d) On the BGM SCREEN, select the START BUTTON.

- 1) Make sure that Boarding Music is heard on the overhead PA system.

NOTE: Change the VOLUME LEVEL as necessary, use the '+' and '-' buttons under the CABIN VOLUME to a comfortable listening level.

- (e) On the BGM screen, select the STOP button.

- 1) Make sure that the Boarding Music stops on the overhead PA system.

F. PRAM Announcement Test

SUBTASK 44-21-00-710-004

- (1) On the CABIN MAINTENANCE screen, select the System Maint from the menu.

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- (a) On the System Maint screen, select PRAM from the menu.
- (b) On the PRAM screen, select any file from the SELECT SOURCE list.
- (c) On the SELECT SOURCE list, select ALLZONE from the SELECT ZONE list.
- (d) On the PRAM screen, select the PLAY ALL button.
 - 1) Make sure that the PRAM MESSAGE is heard on the overhead PA system.

NOTE: Change the VOLUME LEVEL as necessary, using the '+' and '-' buttons under the CABIN VOLUME to a comfortable listening level.
- (e) From a flight attendant handset, start a PA announcement.
 - 1) Make sure that the PA announcement is heard on the overhead PA system.
- (f) Stop the PA announcement.
 - 1) Make sure that the PA announcement is not heard on the overhead PA system.
- (g) On the PRAM screen, select the STOP button.
 - 1) Make sure that the PRAM MESSAGE stops on the overhead PA system.

G. Passenger Seat PRAM Announcement Test

SUBTASK 44-21-00-710-028

- (1) On the CABIN MAINTENANCE screen, select the System Maint from the menu.
 - (a) On the System Maint screen, select PRAM from the menu.
 - (b) On the PRAM screen, select any file from the SELECT SOURCE list.
 - (c) On the SELECT SOURCE list, select ALLZONE from the SELECT ZONE list.
 - (d) On the PRAM screen, select the PLAY ALL button.
 - 1) Make sure that the PRAM MESSAGE is heard on the overhead PA system.

NOTE: Change the VOLUME LEVEL as necessary, using the '+' and '-' buttons under the CABIN VOLUME to a comfortable listening level.
 - (e) From the attendant handset, start a PA announcement.
 - 1) Make sure that the PA announcement is heard on the overhead PA system.
 - (f) Stop the PA announcement.
 - 1) Make sure that the PA announcement is not heard on the overhead PA system.
 - (g) Connect a audio headset to the applicable passenger seat.
 - 1) Make sure that the PRAM MESSAGE is heard in the headset.
 - (h) From the attendant handset, start a PA announcement.
 - 1) Make sure that the PA announcement is heard in the headset.
 - (i) Stop the PA announcement.
 - 1) Make sure that the PRAM MESSAGE is heard in the headset.
 - (j) On the PRAM screen, select the STOP button.
 - 1) Make sure that the PRAM MESSAGE stops on the overhead PA system.

SIA 001-014

H. Overhead Video Test

SUBTASK 44-21-00-710-005

- (1) On the CABIN MAINTENANCE screen, select the System Maint from the menu.

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SIA 001-014 (Continued)

- (a) On the System Maint screen, select BROADCAST from the menu.
- (b) On the BROADCAST screen, select the START from the menu.
 - 1) Make sure to click OK on the pop-up window.
- (c) On the CABIN MAINTENANCE screen, select the System Maint from the menu.
- (d) On the System Maint screen, select the OVERHEAD from the menu.
- (e) On the OVERHEAD screen, select Video Test File 1 from the SELECT SOURCE list.
- (f) On the SELECT SOURCE screen, select ZONE 1 from the SELECT SOURCE list.
- (g) On the OVERHEAD screen, select PLAY button.
 - 1) Make sure that the Video Test File 1 movie is shown on the first right and left hand overhead monitors.
NOTE: Video on the Crew Terminal might not match in timing with video on the overhead monitors.
- (h) On the SELECT SOURCE screen, select ZONE 2 from the SELECT ZONE list.
- (i) On the SELECT SOURCE screen, select Video Test File 2 from the SELECT SOURCE list.
- (j) On the OVERHEAD screen, select the PLAY button.
 - 1) Make sure the Video Test File 2 is shown on the other overhead video monitors.
NOTE: Video on the Crew Terminal might not match in timing with video on the overhead monitors.
- (k) Start a PA ANNOUNCEMENT from the Pilot's microphone or headset.
 - 1) Make sure that the PA ANNOUNCEMENT on the overhead PA system.
 - 2) Make sure that all video shown on the overhead video monitors is PAUSED during the PA ANNOUNCEMENT.
 - 3) Stop the PA ANNOUNCEMENT.
- (l) Make sure that the video RESUMES on the overhead video monitors.
- (m) Start a PA ANNOUNCEMENT on the Forward Flight Attendant's handset.
 - 1) Make sure that PA ANNOUNCEMENT is heard on the overhead PA system.
 - 2) Make sure that all video shown on the overhead video monitor is PAUSED during the PA ANNOUNCEMENT.
 - 3) Stop the PA ANNOUNCEMENT.
- (n) Make sure that the video RESUMES on the overhead video monitors.
- (o) Start a PA ANNOUNCEMENT on the Aft Flight Attendant's handset.
 - 1) Make sure that PA ANNOUNCEMENT is heard on the overhead PA system.
 - 2) Stop the PA ANNOUNCEMENT.
- (p) Make sure that the video RESUMES on the overhead video monitors.
- (q) On the OVERHEAD screen, push the STOP button.
 - 1) Make sure that the video is not shown on the overhead monitors.
 - 2) Make sure that the overhead video monitors retract.

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SIA 001-014 (Continued)

I. Video Announcement Test

SUBTASK 44-21-00-710-006

- (1) On the CABIN MAINTENANCE screen, select the System Maint from the menu.
 - (a) On the System Maint screen, select Video PA from the menu.
 - (b) On the VIDEO PA screen, select any file from the SELECT SOURCE list.
 - (c) On the SELECT SOURCE list, select ANY file from the SELECT SOURCE list.
 - (d) On the SELECT SOURCE list, select ALLZONE from the SELECT ZONE list.
 - (e) On the VIDEO PA screen, select ASSIGN VPA.
 - 1) Make sure that the overhead monitors deploy.
 - 2) Make sure that the selected video is shown.
 - 3) Make sure that the Video Announcement audio is heard on the overhead PA system.
 - (f) Start PA ANNOUNCEMENT from the Pilot's microphone or headset.
 - 1) Make sure that the overhead video is PAUSED.
 - 2) Make sure that the PA ANNOUNCEMENT overrides the audio on the overhead PA system.
 - (g) Stop PA ANNOUNCEMENT.
 - 1) Make sure the video announcement resumes at the overhead monitors.
 - (h) Make sure that the video announcement audio resumes on the overhead PA system.
 - (i) Start PA ANNOUNCEMENT from the forward attendant handset.
 - 1) Make sure that the overhead video is PAUSED.
 - 2) Make sure that the PA ANNOUNCEMENT overrides the audio on the overhead PA system.
 - (j) Stop PA ANNOUNCEMENT.
 - 1) Make sure that the video announcement resumes at the overhead monitors.
 - (k) Make sure the video announcement audio resumes at the overhead PA speakers.
 - (l) Start the PA ANNOUNCEMENT from the aft attendant handset.
 - 1) Make sure that the overhead video is PAUSED.
 - 2) Make sure that the PA ANNOUNCEMENT overrides the audio on the overhead PA system.
 - (m) Stop PA ANNOUNCEMENT.
 - 1) Make sure that the video announcement audio resumes at the overhead PA system..
 - (n) On the VIDEO PA screen, select STOP VPA.
 - 1) Make sure that the video stops.
 - 2) Make sure that the overhead monitors retract.

J. Decompression Test

SUBTASK 44-21-00-710-007

- (1) On the CABIN MAINTENANCE screen, select the System Maint from the menu.

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SIA 001-014 (Continued)

- (a) On the System Maint screen, select VIDEO PA from the menu.
- (b) On the VIDEO PA screen, select any file from the SELECT SOURCE list.
- (c) On the SELECT SOURCE screen, select ALLZONE from the SELECT SOURCE list.
- (d) On the VIDEO PA screen, select ASSIGN VPA from the menu.
NOTE: If the previous video pop-up is displayed, select play from the beginning and select OK.
- (e) Make sure that the selected video is shown on all overhead video monitors.
- (f) Make sure that the selected Video PA audio is heard on the overhead PA system.
- (g) Connect a passenger headset to the Remote Jack Unit (RJU) in the passenger seat.
 - 1) Make sure that there is audio from the passenger headset.



CAUTION

OPEN THESE CIRCUIT BREAKERS. IF YOU DO NOT OPEN THE CIRCUIT BREAKERS, THE OXYGEN MASKS WILL RELEASE INTO THE PASSENGER COMPARTMENT.

- (h) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

- (i) Set the S1 MANUAL OXYGEN switch to ON.
- (j) Make sure that the decompression message ONLY is played on the overhead PA system.
- (k) Make sure that all overhead video monitors retract.
- (l) Make sure that the CT shows a message that decompression has occurred.
- (m) Make sure that the decompression message to finish.
- (n) Start PA announcement from the Pilot's microphone or headset.
- (o) Stop PA Announcement.
- (p) Make sure that the decompression does not restart.
- (q) Set the overhead panel P5-13, IFE/PASS SEAT, switch to OFF.
- (r) Open and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

- (s) Set the overhead panel P5-13, IFE/PASS SEAT, switch to ON.
- (t) Make sure that the CABIN MAINTENANCE screen is shown on the CT.

NOTE: The crew terminal will boot up in 8-10 minutes.

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SIA 015-999

K. Decompression Test

SUBTASK 44-21-00-710-040

- (1) On the CABIN MAINTENANCE screen, select the System Maint from the menu.
 - (a) On the System Maint screen, select BGM from the menu.
 - (b) On the BGM screen, select any file from the SELECT SOURCE list.
 - (c) On the SELECT SOURCE screen, select ALLZONE from the SELECT SOURCE list.
 - (d) On the BGM screen, select START button from the menu.
 - (e) Make sure that the selected audio is heard on the PA system.



CAUTION

OPEN THESE CIRCUIT BREAKERS. IF YOU DO NOT OPEN THE CIRCUIT BREAKERS, THE OXYGEN MASKS WILL RELEASE INTO THE PASSENGER COMPARTMENT.

- (f) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

- (g) Set the S1 MANUAL OXYGEN switch to ON.
- (h) Make sure that the decompression message ONLY is played on the overhead PA system.
- (i) Make sure that the CT shows a message that decompression has occurred.
- (j) Make sure that the decompression message to finish.
- (k) Start PA announcement from the Pilot's microphone or headset.
- (l) Stop PA Announcement.
- (m) Make sure that the decompression does not restart.
- (n) Set the overhead panel P5-13, IFE/PASS SEAT, switch to OFF.
- (o) Open and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

- (p) Set the overhead panel P5-13, IFE/PASS SEAT, switch to ON.
- (q) Make sure that the CABIN MAINTENANCE screen is shown on the CT.

NOTE: The crew terminal will boot up in 8-10 minutes.

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L. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-025

- (1) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

SUBTASK 44-21-00-850-018

- (2) Set the overhead panel P5-13, IFE/PASS SEAT switch to OFF.

————— **END OF TASK** —————

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MASTER CONTROL UNIT - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Master Control Unit Removal
 - (2) Master Control Unit Installation.

TASK 44-21-05-000-801

2. Master Control Unit Removal

(Figure 401)

A. **General**

- (1) This task has instructions to remove the master control unit in the overhead ceiling area.

B. **References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
25-21-45-000-801	Main Ceiling Panel - Removal (P/B 401)

C. **Location Zones**

Zone	Area
232	Forward Passenger Compartment - Forward Entry Door to STA 663.75 - Right
SIA 015-999	
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
SIA ALL	

D. **Prepare for the Removal**

SUBTASK 44-21-05-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
SIA 015-999			
A	14	C01645	SEAT POWER AFT
SIA ALL			
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-05-010-001

- (2) To get access to the master control unit [1], remove the applicable ceiling panel (TASK 25-21-45-000-801).

SUBTASK 44-21-05-910-001

 CAUTION	DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.
---	--

- (3) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

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E. Master Control Unit Removal

SUBTASK 44-21-05-020-001

- (1) Disconnect the configuration module [5] from the master control unit [1].

NOTE: Keep the configuration module for the installation.

SUBTASK 44-21-05-020-002

- (2) Remove the master control unit [1]:
- (a) Disconnect the electrical connector [2] and electrical connectors [9] from the master control unit [1].
NOTE: Tag the connectors for identification.
 - (b) Disconnect the bonding jumper [6] from the master control unit [1].
 - 1) Remove the nut [7], washer [8], and bonding jumper [6] to the master control unit [1].
 - (c) Remove the screws [3] and washers [4] that attach the master control unit [1] to the mounting bracket.
 - (d) Remove the master control unit [1].
 - (e) Put protective covers on the electrical connector [2] and electrical connectors [9].

———— **END OF TASK** ————

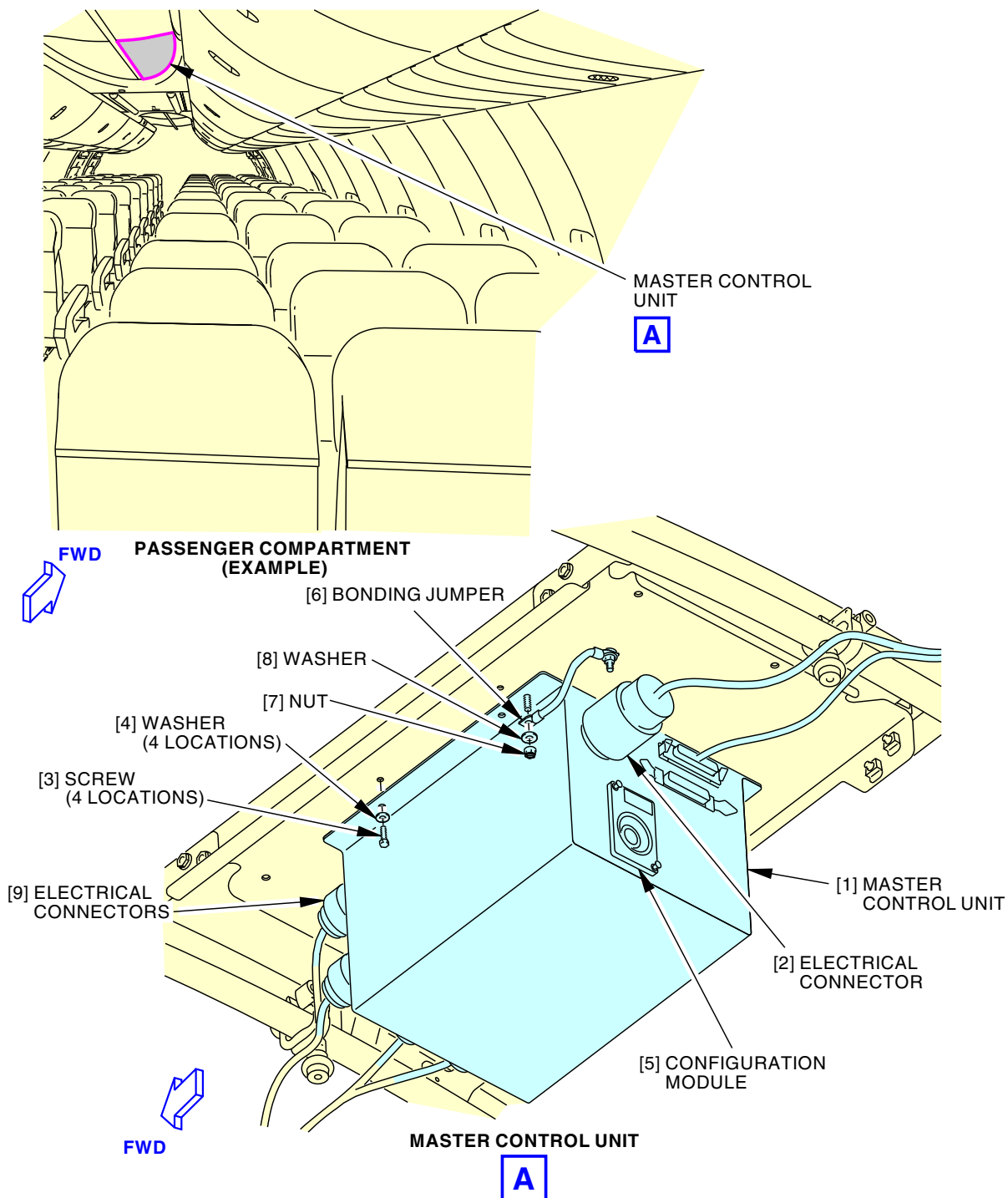
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Master Control Unit Installation
Figure 401/44-21-05-990-801

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TASK 44-21-05-400-801

3. **Master Control Unit Installation**

(Figure 401)

A. General

(1) This task has instructions to install the master control unit in the overhead ceiling area.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
25-21-45-400-801	Main Ceiling Panel - Installation (P/B 401)
44-21-00-710-805	Passenger Seat Power On Test (P/B 501)
44-21-00-860-801	Server Based Entertainment System Configuration Check (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Master control unit	44-21-05-01-080	SIA 001-014
5	Configuration module	44-21-05-01-090	SIA 001-014

E. Location Zones

Zone	Area
232	Forward Passenger Compartment - Forward Entry Door to STA 663.75 - Right SIA 015-999
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left SIA ALL

F. Master Control Unit Installation

SUBTASK 44-21-05-910-002

 CAUTION	DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.
---	--

(1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

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SUBTASK 44-21-05-420-001

- (2) Install the master control unit [1]:
 - (a) Put the master control unit [1] into its mounting bracket.
 - (b) Install screws [3] and washers [4] to the master control unit [1].
 - (c) Connect the bonding jumper [6] to the master control unit [1].
 - 1) Install the washer [8] and nut [7] to the master control unit [1].
 - (d) Measure the resistance between the bonding jumper [6] and the mounting bracket with an intrinsically safe approved bonding meter, COM-1550 (SWPM 20-20-00, Paragraph 21).
 - 1) Make sure that the resistance is 1.0 milliohms or less.

SUBTASK 44-21-05-420-002

- (3) Connect the configuration module [5] to the master control unit [1].

SUBTASK 44-21-05-020-003

- (4) Remove the protective covers on the electrical connector [2] and electrical connectors [9].

SUBTASK 44-21-05-420-003

- (5) Connect the electrical connector [2] and electrical connectors [9] to the master control unit [1].
 - (a) Make sure that the connectors are on the correct jacks.

G. Master Control Unit Installation Test

SUBTASK 44-21-05-860-002

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
SIA 015-999			
A	14	C01645	SEAT POWER AFT
SIA ALL			
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-05-860-004

- (2) Do this task: Server Based Entertainment System Configuration Check, TASK 44-21-00-860-801.

SUBTASK 44-21-05-710-002

- (3) Do this task: Passenger Seat Power On Test, TASK 44-21-00-710-805.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-05-410-001

- (1) Install the applicable ceiling panel (TASK 25-21-45-400-801).

————— **END OF TASK** —————

EFFECTIVITY
SIA ALL

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IN-SEAT POWER SUPPLY - REMOVAL/INSTALLATION

1. **General**

- A. This procedure has these tasks:
- (1) In-Seat Power Supply Removal
 - (2) In-Seat Power Supply Installation.

TASK 44-21-06-000-801

2. **In-Seat Power Supply Removal**

(Figure 401)

A. **General**

- (1) This task has instructions to remove the in-seat power supply.

B. **References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

D. **Prepare for the Removal**

SUBTASK 44-21-06-860-001

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-06-910-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. **In-Seat Power Supply Removal**

SUBTASK 44-21-06-020-001

- (1) Remove the in-seat power supply [1]:
 - (a) Loosen the fasteners [2].
 - (b) Disconnect the nut [3] and bonding jumper [4] from the in-seat power supply [1].
 - (c) Disconnect the electrical connectors [5].

———— **END OF TASK** ————

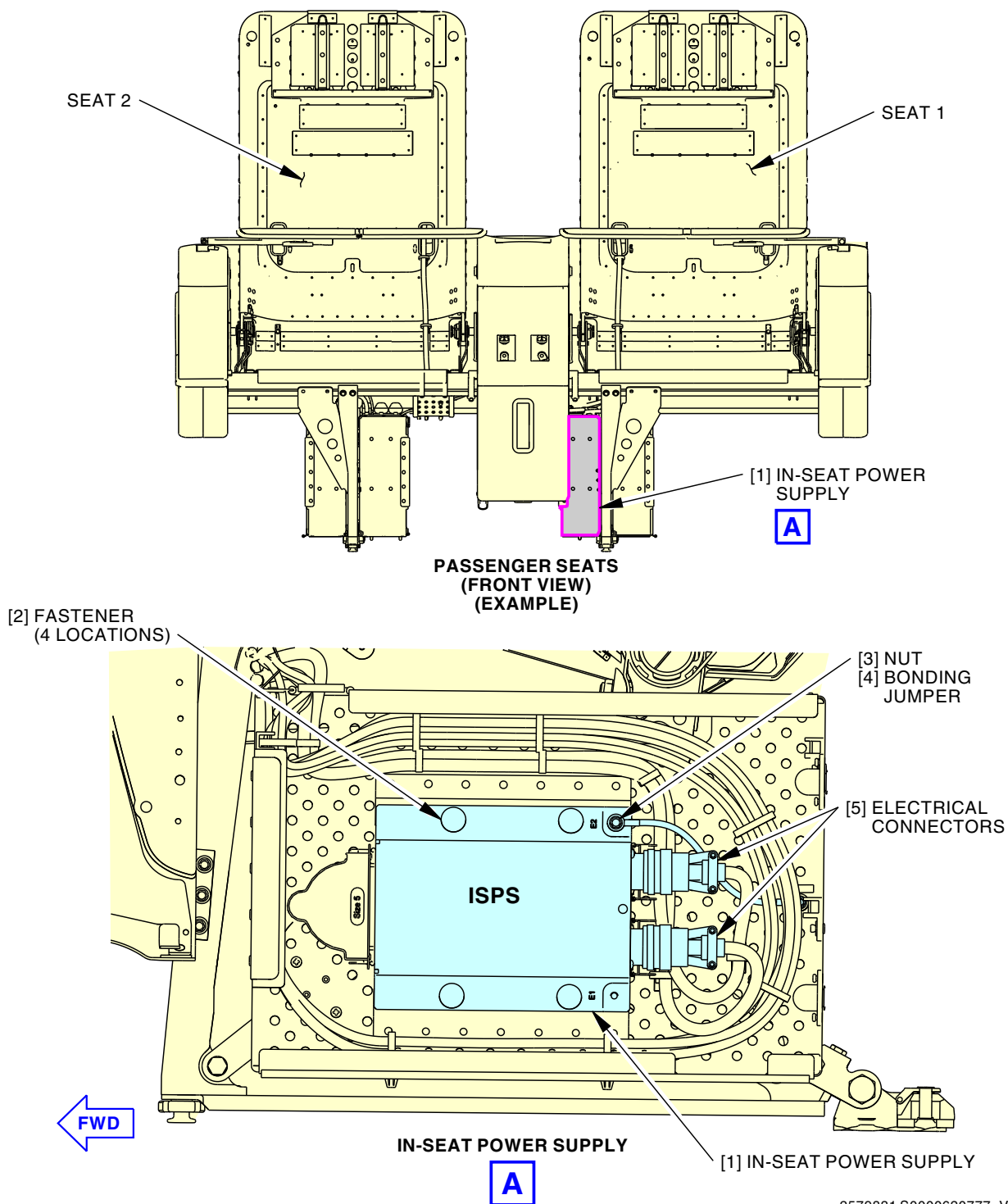
EFFECTIVITY
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In-Seat Power Supply Installation
Figure 401/44-21-06-990-801

EFFECTIVITY
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AIRCRAFT MAINTENANCE MANUAL

TASK 44-21-06-400-801

3. In-Seat Power Supply Installation

(Figure 401)

A. General

- (1) This task has instructions to install the in-seat power supply.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-710-805	Passenger Seat Power On Test (P/B 501)
44-21-00-860-801	Server Based Entertainment System Configuration Check (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. In-Seat Power Supply Installation

SUBTASK 44-21-06-910-002



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-06-420-001

- (2) Install the in-seat power supply [1]:
- (a) Put the in-seat power supply [1] in position.
 - (b) Tighten the fasteners [2].
 - (c) Connect the bonding jumper [4] and nut [3] to the in-seat power supply [1].
 - (d) Measure the resistance between the bonding jumper [4] and the passenger seat with an intrinsically safe approved bonding meter, COM-1550 (SWPM 20-20-00, Paragraph 21).
 - 1) Make sure that the resistance is 1.0 milliohms or less.
 - (e) Connect the electrical connectors [5] to the in-seat power supply [1].

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F. In-Seat Power Supply Installation Test

SUBTASK 44-21-06-860-002

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-06-860-004

- (2) Do this task: Server Based Entertainment System Configuration Check, TASK 44-21-00-860-801.

SUBTASK 44-21-06-710-002

- (3) Do this task: Passenger Seat Power On Test, TASK 44-21-00-710-805.

———— **END OF TASK** ————

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OUTLET UNIT - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

- (1) Outlet Unit Removal
- (2) Outlet Unit Installation.

TASK 44-21-07-000-801

2. Outlet Unit Removal

(Figure 401)

A. General

- (1) This task has instructions to remove the outlet unit from the passenger seat.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Removal

SUBTASK 44-21-07-860-001

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-07-910-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. Outlet Unit Removal

SUBTASK 44-21-07-020-001

- (1) Remove the outlet unit [1]:
 - (a) If necessary, remove the cover from the outlet unit [1].
 - (b) Loosen the screws [2] on the outlet unit [1].
 - (c) Gently pull the outlet unit [1] from the passenger seat.
 - (d) Disconnect the electrical connector [3] from the outlet unit [1].
 - 1) Make sure that the electrical connector [3] does not fall through the armrest.

———— **END OF TASK** ————

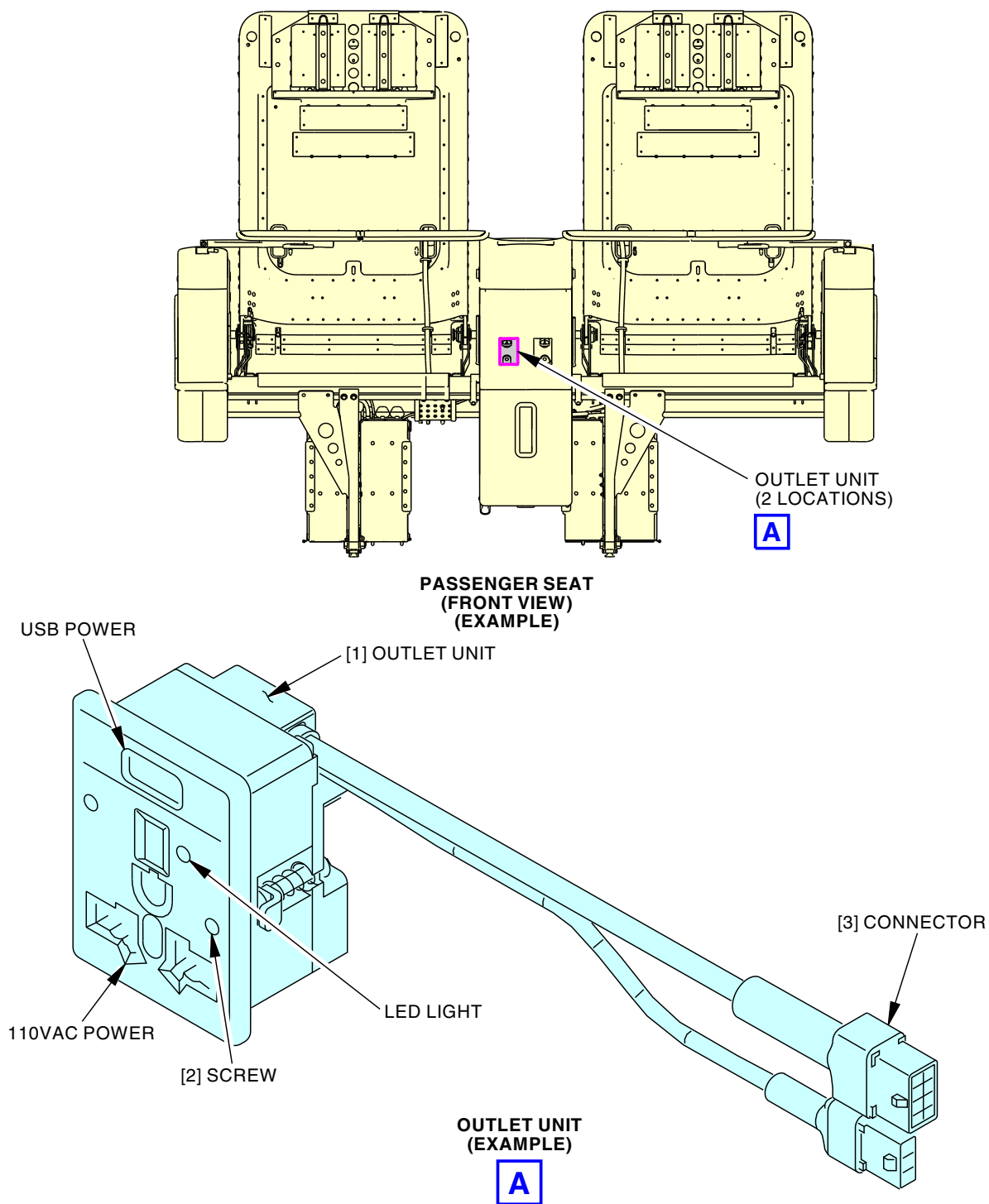
EFFECTIVITY
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Outlet Unit Installation
Figure 401/44-21-07-990-801

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TASK 44-21-07-400-801

3. Outlet Unit Installation

(Figure 401)

A. General

- (1) This task has instructions to install the outlet unit in the passenger seat.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-710-805	Passenger Seat Power On Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Outlet Unit Installation

SUBTASK 44-21-07-910-002



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-07-420-001

- (2) Install the outlet unit [1]:
- (a) Connect the electrical connector [3] to the outlet unit [1].
 - (b) Gently push the outlet unit [1] into the passenger seat armrest.
 - (c) Tighten the screws [2] on the outlet unit [1].
 - (d) If necessary, install the cover to the outlet unit [1].

E. Outlet Unit Installation Test

SUBTASK 44-21-07-860-002

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-07-710-002

- (2) Do this task: Passenger Seat Power On Test, TASK 44-21-00-710-805.

————— END OF TASK —————

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PASSENGER CONTROL HANDSET ASSEMBLY - REMOVAL/INSTALLATION

1. **General**

A. This procedure has these tasks:

- (1) Passenger Control Unit (PCU) Removal
- (2) Passenger Control Unit (PCU) Installation.

B. The passenger control handset assembly is also the Passenger Control Unit (PCU).

TASK 44-21-08-000-802

2. **Passenger Control Unit (PCU) Removal**

(Figure 401)

A. **General**

- (1) This task gives the instructions to remove the Passenger Control Unit (PCU) from the passenger seat arm rest.

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Passenger Control Unit (PCU) Removal**

SUBTASK 44-21-08-020-002

- (1) Remove the PCU [1] from the passenger seat arm rest.
 - (a) If it is necessary, remove the passenger seat arm rest cap [4].
 - (b) If it is necessary, loosen the screw [2].
 - (c) Carefully pull the PCU [1] from the passenger seat arm rest.
 - (d) Disconnect the electrical connector [3].

———— **END OF TASK** ————

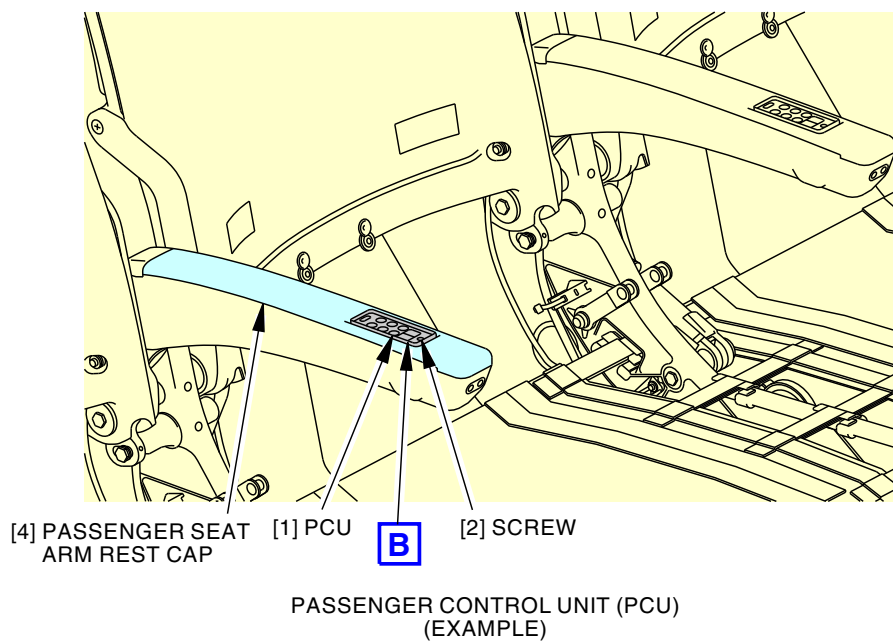
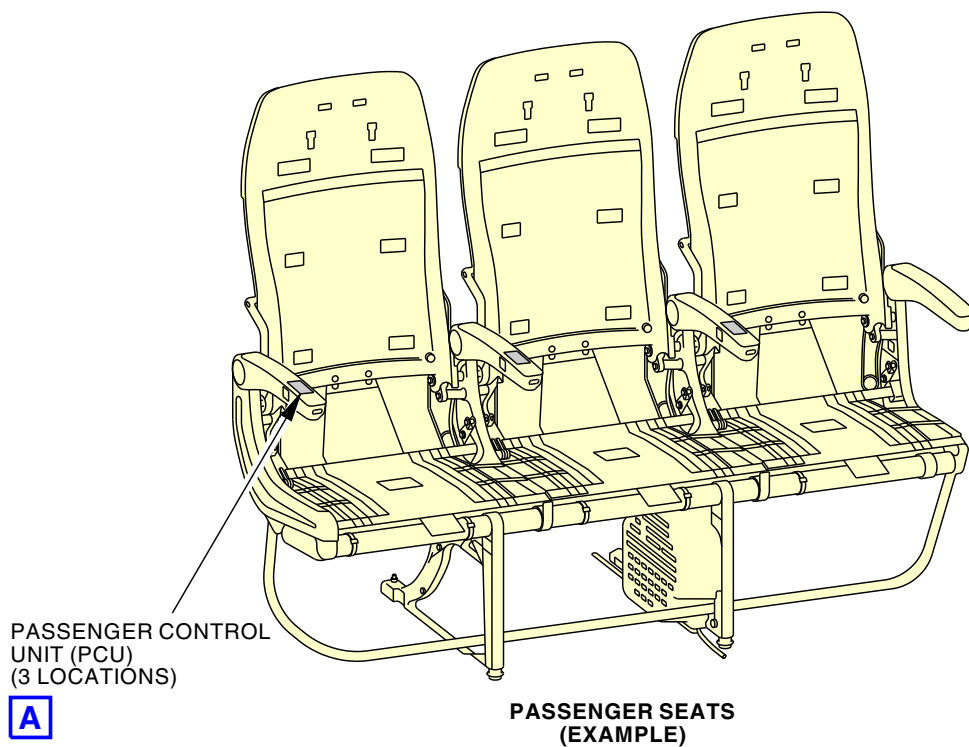
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A

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Passenger Control Unit (PCU) Installation
Figure 401/44-21-08-990-802 (Sheet 1 of 3)

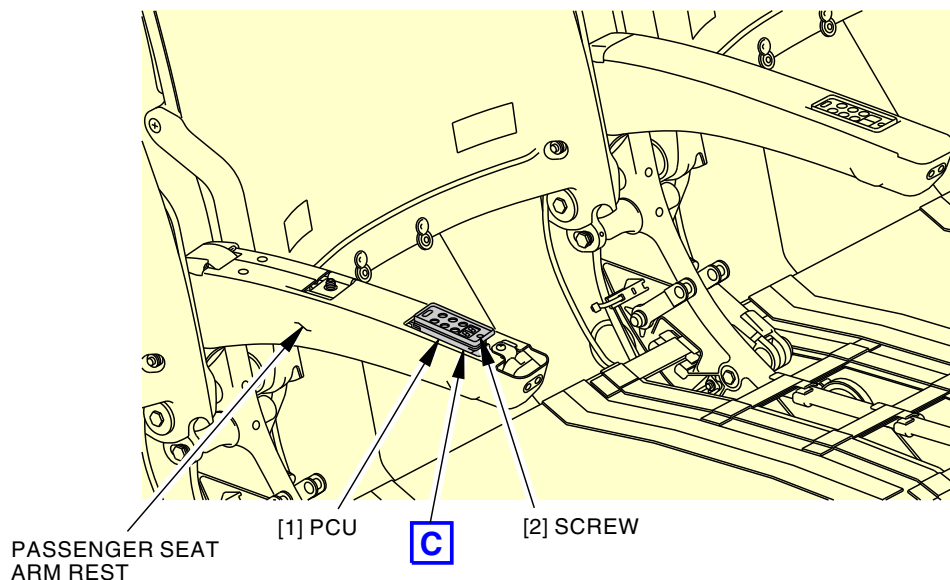
EFFECTIVITY
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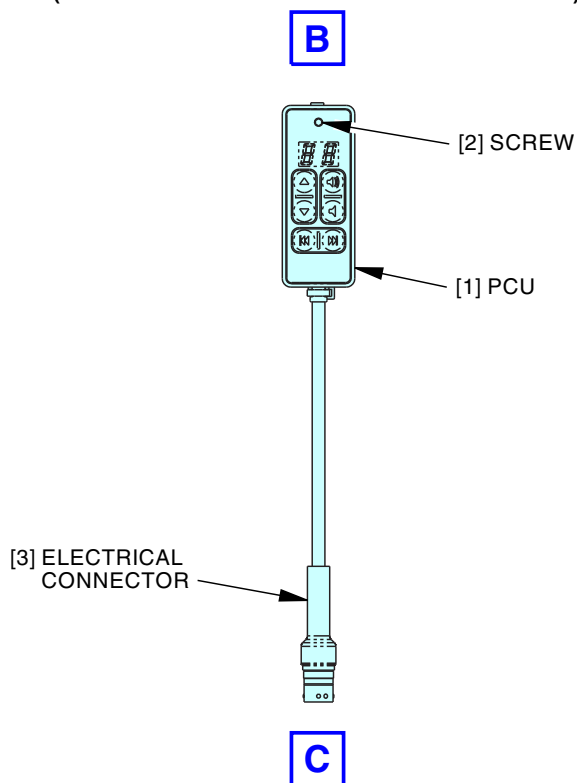
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(PASSENGER SEAT ARM REST CAP REMOVED)



2585413 S0000622775_V2

Passenger Control Unit (PCU) Installation
Figure 401/44-21-08-990-802 (Sheet 2 of 3)

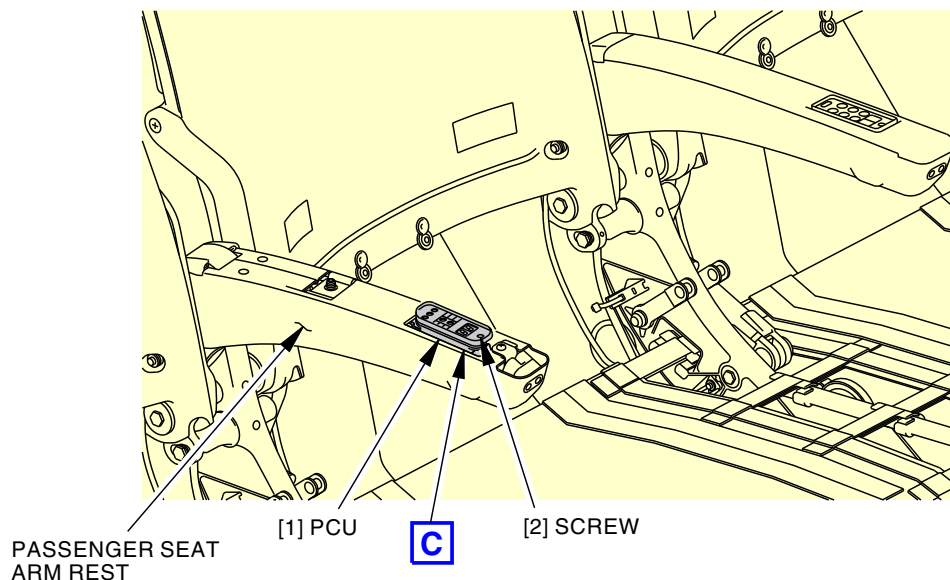
EFFECTIVITY
SIA 001-014

D633AM101-SIA

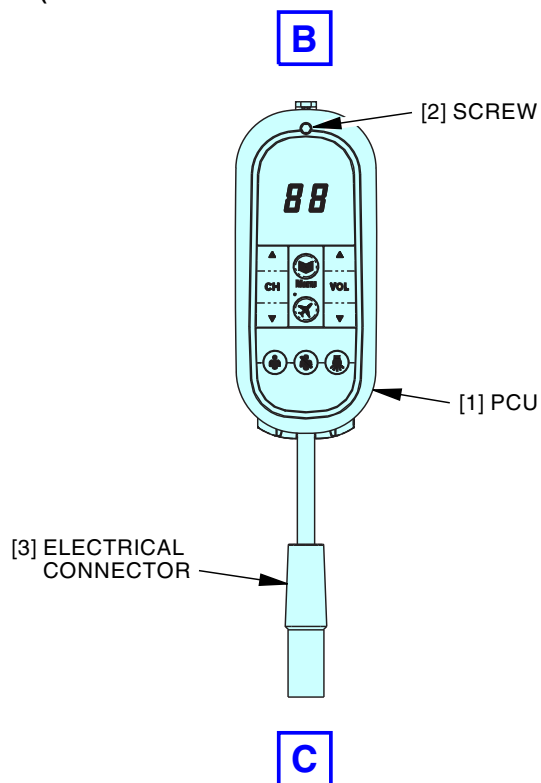
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(PASSENGER SEAT ARM REST CAP REMOVED)



2979911 S0000758123_V1

Passenger Control Unit (PCU) Installation
Figure 401/44-21-08-990-802 (Sheet 3 of 3)

EFFECTIVITY
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TASK 44-21-08-400-802

3. **Passenger Control Unit (PCU) Installation**

(Figure 401)

A. General

- (1) This task gives the instructions to install the Passenger Control Unit (PCU) in the passenger seat arm rest.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Passenger Control Unit (PCU) Installation

SUBTASK 44-21-08-420-003

- (1) Install the PCU [1] in the passenger seat arm rest.
 - (a) Connect the electrical connector [3].
 - (b) Carefully put the PCU [1] in the passenger seat arm rest.
 - (c) If it is necessary, tighten the screw [2].
 - (d) If it is necessary, install the passenger seat arm rest cap [4].

D. Passenger Control Unit (PCU) Installation Test

SUBTASK 44-21-08-850-001

- (1) Energize the IFE system as follows:
 - (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

SUBTASK 44-21-08-850-003

- (2) Make sure that the CABIN MAINTENANCE screen is shown on the Crew Terminal (CT).

NOTE: The crew terminal will boot up in 8-10 minutes.

SUBTASK 44-21-08-850-004

- (3) On the CABIN MAINTENANCE screen, select SYSTEM MAINT from the menu.
 - (a) On the SYSTEM MAINT screen, select FLIGHT STATE from the menu.
 - 1) Make sure that the FLIGHT STATE is OPEN.

SUBTASK 44-21-08-710-003

- (4) On the CABIN MAINTENANCE screen, select the Software CertApp from the menu.
 - (a) On the SOFTWARE CERTAPP screen, select PRAM from the menu.
 - (b) On the PRAM screen, select any file from the SELECT SOURCE list.
 - (c) On the SELECT SOURCE list, select ALLZONE from the SELECT ZONE list.
 - (d) On the PRAM screen, select the PLAY ALL button.
 - 1) Make sure that the PRAM MESSAGE is heard on the overhead Passenger Address (PA) system.

NOTE: Change the VOLUME LEVEL as necessary, using the '+' and '-' buttons under the CABIN VOLUME to a comfortable listening level.
 - (e) Connect a applicable headset to the Remote Jack Unit (RJU).
 - 1) Make sure that the PRAM MESSAGE is heard in the headset.
 - (f) Adjust the volume level on the Passenger Control Unit (PCU).
 - 1) Make sure that the volume level of the PRAM MESSAGE is different in the headset.

EFFECTIVITY
SIA ALL

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- (g) On the PRAM screen, select the STOP button.
 - 1) Make sure that the PRAM MESSAGE stops on the overhead PA system.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

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REMOTE AUDIO JACK - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

- (1) Remote Jack Unit (RJU) Removal
- (2) Remote Jack Unit (RJU) Installation.

B. The remote audio jack is also the Remote Jack Unit (RJU).

TASK 44-21-09-000-802

2. Remote Jack Unit (RJU) Removal

(Figure 401 or Figure 402)

A. **General**

- (1) This task has instructions to remove the Remote Jack Unit (RJU) from the passenger seat armrest.

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Remote Jack Unit (RJU) Removal**

SUBTASK 44-21-09-020-002

- (1) Remove the RJU [1] from the passenger seat armrest:
 - (a) If necessary, remove the passenger seat arm rest cap [4].
 - (b) Remove the screw [2].
 - (c) Carefully pull the RJU [1] from the passenger seat armrest.
 - (d) Disconnect the electrical connector [3].

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

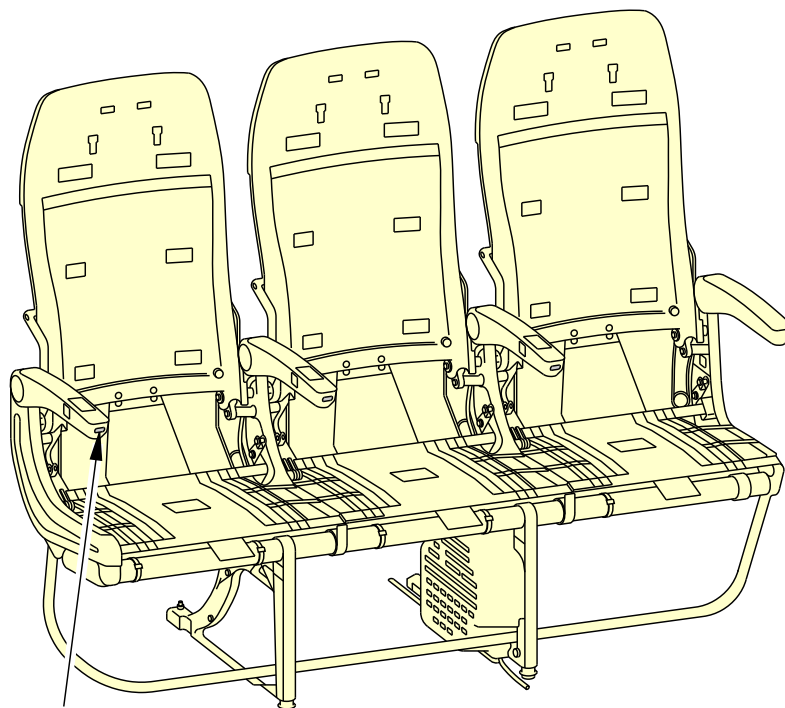
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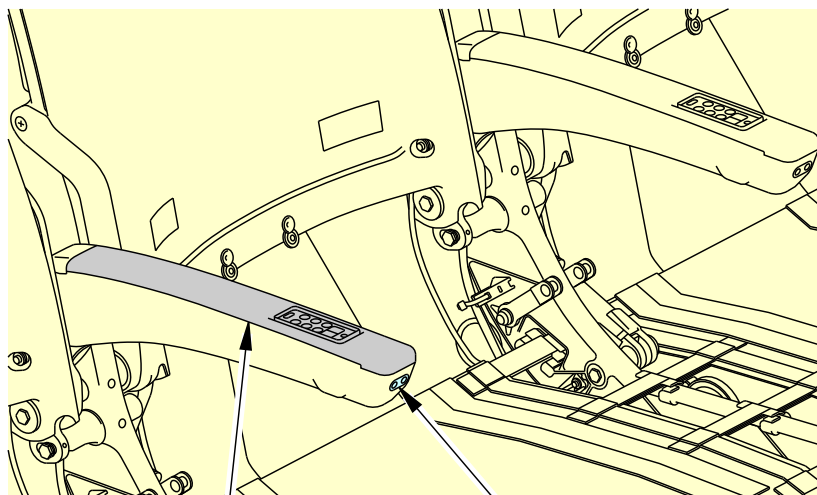
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AIRCRAFT MAINTENANCE MANUAL



REMOTE JACK UNIT (RJU)
(3 LOCATIONS)

PASSENGER SEATS
(EXAMPLE)

A



[4] PASSENGER SEAT
ARM REST CAP

[1] RJU

B

A

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Remote Jack Unit (RJU) Installation
Figure 401/44-21-09-990-802 (Sheet 1 of 2)

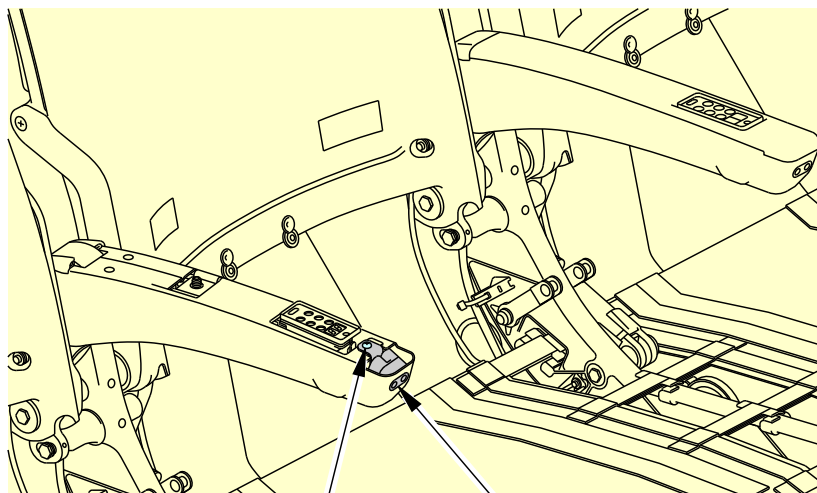
EFFECTIVITY
SIA 015-999

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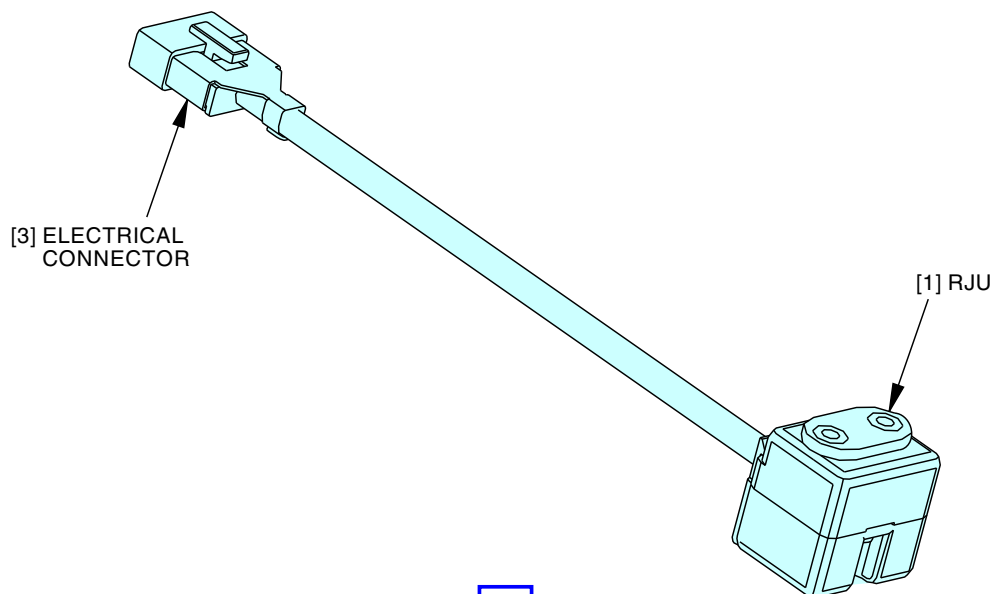
[2] SCREW

[1] RJU

C

PASSENGER SEAT ARM REST CAP REMOVED

B



[3] ELECTRICAL
CONNECTOR

[1] RJU

C

2585356 S0000622788_V1

Remote Jack Unit (RJU) Installation
Figure 401/44-21-09-990-802 (Sheet 2 of 2)

EFFECTIVITY
SIA 015-999

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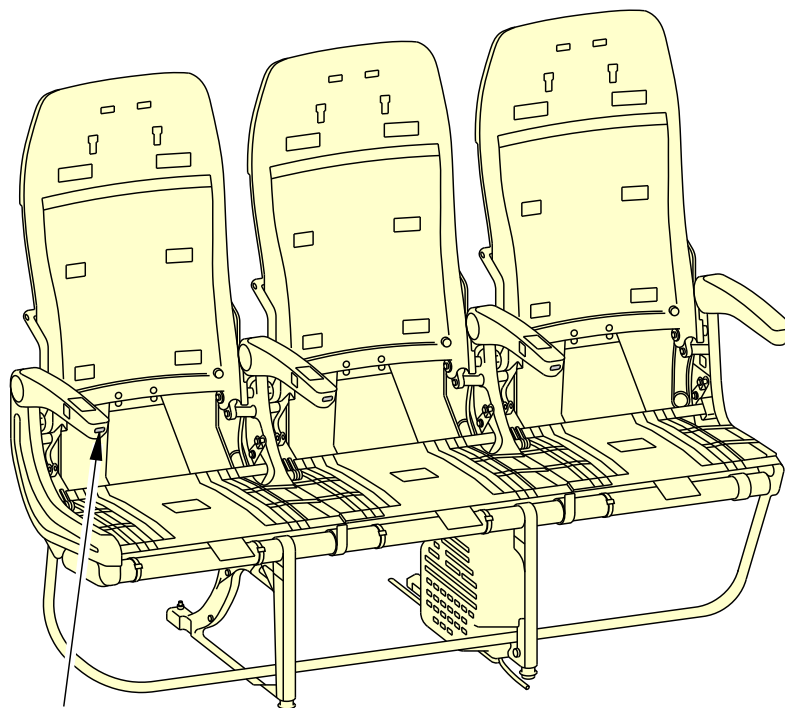
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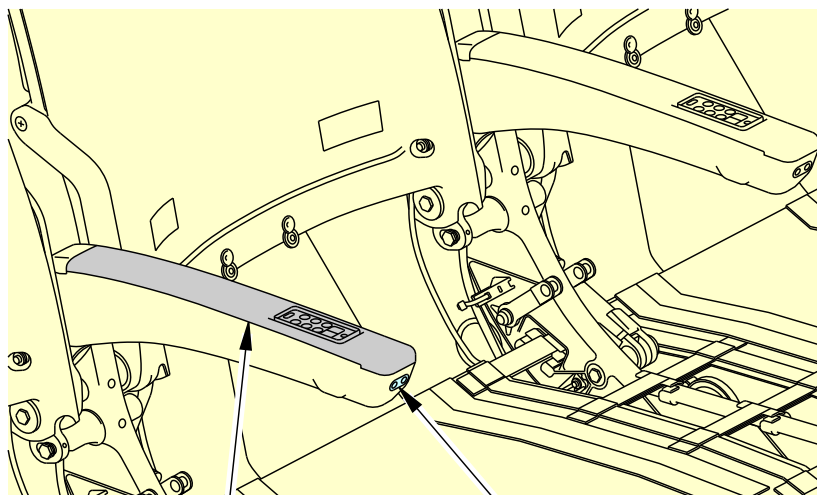
737-7/8/8200/9/10
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REMOTE JACK UNIT (RJU)
(3 LOCATIONS)

PASSENGER SEATS
(EXAMPLE)

A



[4] PASSENGER SEAT
ARM REST CAP

[1] RJU

B

A

2585215 S0000622645_V1

Remote Jack Unit (RJU) Installation
Figure 402/44-21-09-990-806 (Sheet 1 of 2)

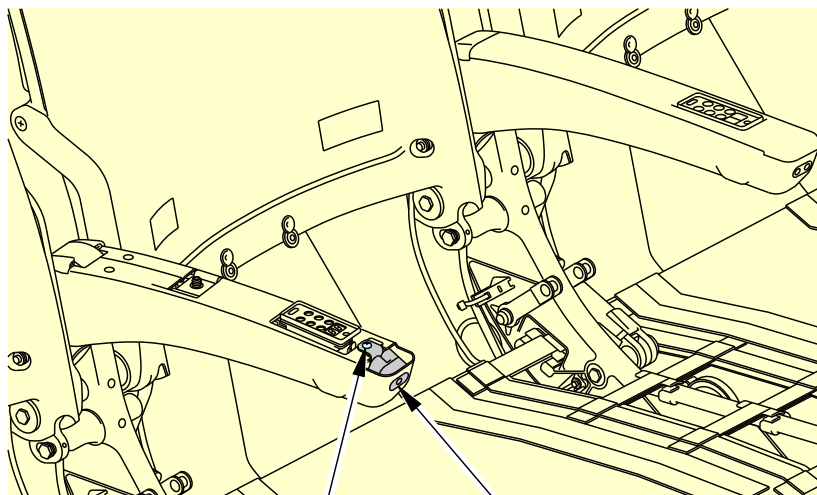
EFFECTIVITY
SIA 001-014

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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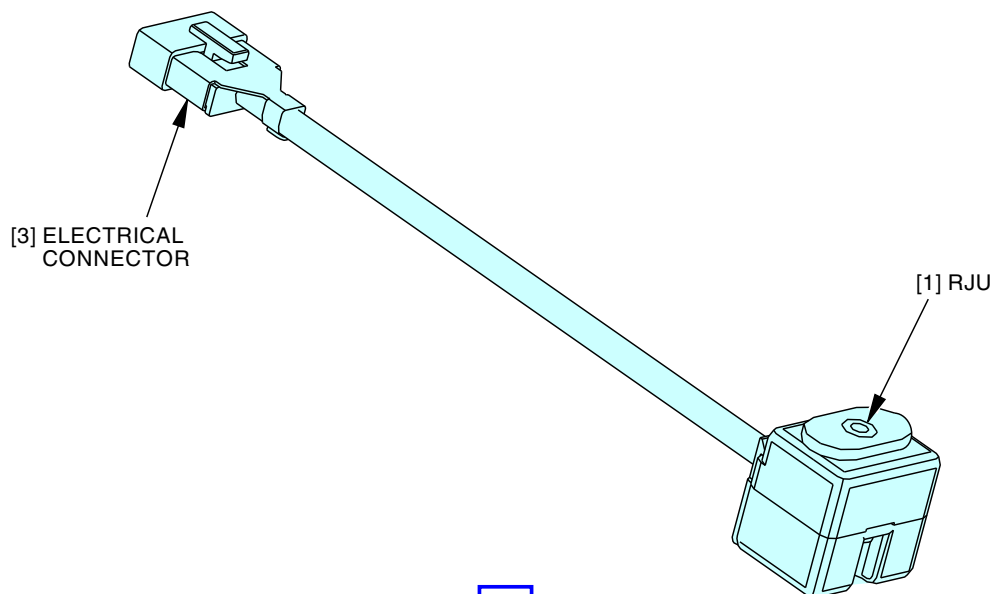
[2] SCREW

[1] RJU

C

PASSENGER SEAT ARM REST CAP REMOVED

B



[3] ELECTRICAL
CONNECTOR

[1] RJU

C

2585852 S0000624371_V1

Remote Jack Unit (RJU) Installation
Figure 402/44-21-09-990-806 (Sheet 2 of 2)

EFFECTIVITY
SIA 001-014

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SIA ALL

TASK 44-21-09-400-802

3. Remote Jack Unit (RJU) Installation

(Figure 401 or Figure 402)

A. General

- (1) This task has instructions to install the Remote Jack Unit (RJU) in the passenger seat armrest.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Remote Jack Unit (RJU) Installation

SUBTASK 44-21-09-420-003

- (1) Install the RJU [1] in the passenger seat armrest:
- (a) Connect the electrical connector [3].
 - (b) Carefully put the RJU [1] in the passenger seat armrest.
 - (c) Install the screw [2].
 - (d) If necessary, install the passenger seat arm rest cap [4].

D. Remote Jack Unit (RJU) Installation Test

SUBTASK 44-21-09-850-001

- (1) Energize the IFE system as follows:
- (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

SUBTASK 44-21-09-850-003

- (2) Make sure that the CABIN MAINTENANCE screen is shown on the Crew Terminal (CT).
NOTE: The crew terminal will boot up in 8-10 minutes.

SUBTASK 44-21-09-850-004

- (3) On the CABIN MAINTENANCE screen, select SYSTEM MAINT from the menu.
- (a) On the SYSTEM MAINT screen, select FLIGHT STATE from the menu.
 - 1) Make sure that the FLIGHT STATE is OPEN.

SUBTASK 44-21-09-710-004

- (4) On the CABIN MAINTENANCE screen, select the Software CertApp from the menu.
- (a) On the SOFTWARE CERTAPP screen, select PRAM from the menu.
 - (b) On the PRAM screen, select any file from the SELECT SOURCE list.
 - (c) On the SELECT SOURCE list, select ALLZONE from the SELECT ZONE list.
 - (d) On the PRAM screen, select the PLAY ALL button.
 - 1) Make sure that the PRAM MESSAGE is heard on the overhead Passenger Address (PA) system.
NOTE: Change the VOLUME LEVEL as necessary, using the '+' and '-' buttons under the CABIN VOLUME to a comfortable listening level.
 - (e) Connect a applicable headset to the Remote Jack Unit (RJU).
 - 1) Make sure that the PRAM MESSAGE is heard on the headset.
 - (f) On the PRAM screen, select the STOP button.

EFFECTIVITY
SIA ALL

44-21-09

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- 1) Make sure that the PRAM MESSAGE stops on the overhead PA system.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

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SEAT ELECTRONICS BOX - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Seat Electronics Box Removal
 - (2) Seat Electronics Box Installation.

TASK 44-21-10-000-801

2. Seat Electronics Box Removal

(Figure 401 or Figure 402)

A. **General**

- (1) This task has instructions to remove the seat electronics box under the passenger seat.

B. **References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

D. **Prepare for the Removal**

SUBTASK 44-21-10-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
SIA 015-999			
A	14	C01645	SEAT POWER AFT
SIA ALL			
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-10-910-001



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. **Seat Electronics Box Removal**

SUBTASK 44-21-10-020-001

- (1) Remove the seat electronics box [1]:
 - (a) Remove the screws [5].
 - (b) Remove the shroud [4].

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- (c) Disconnect the electrical connectors [3].
- (d) Remove the fasteners [2].

———— **END OF TASK** ————

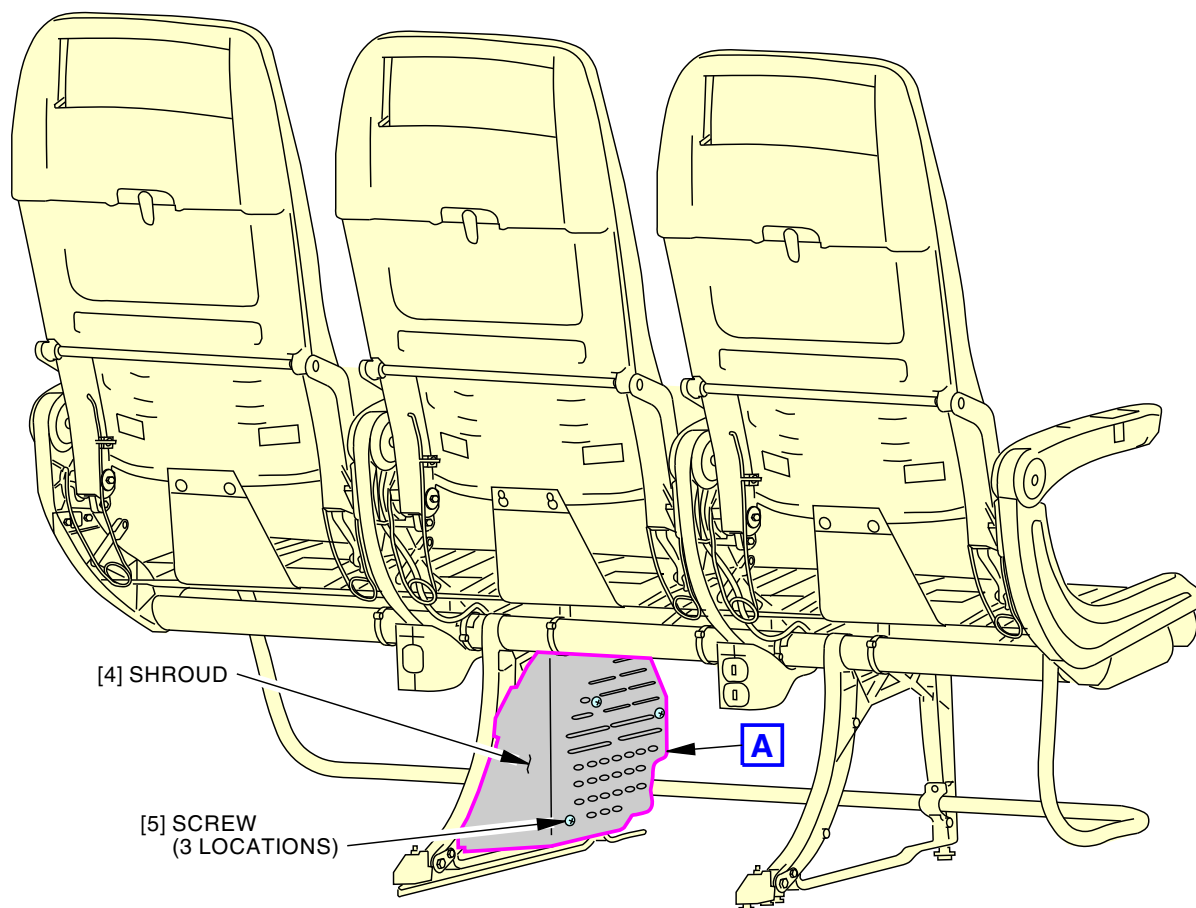
EFFECTIVITY
SIA ALL

D633AM101-SIA

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**PASSENGER SEATS
(EXAMPLE)**

2585195 S0000622715_V1

**Seat Electronics Box Installation
Figure 401/44-21-10-990-801 (Sheet 1 of 2)**

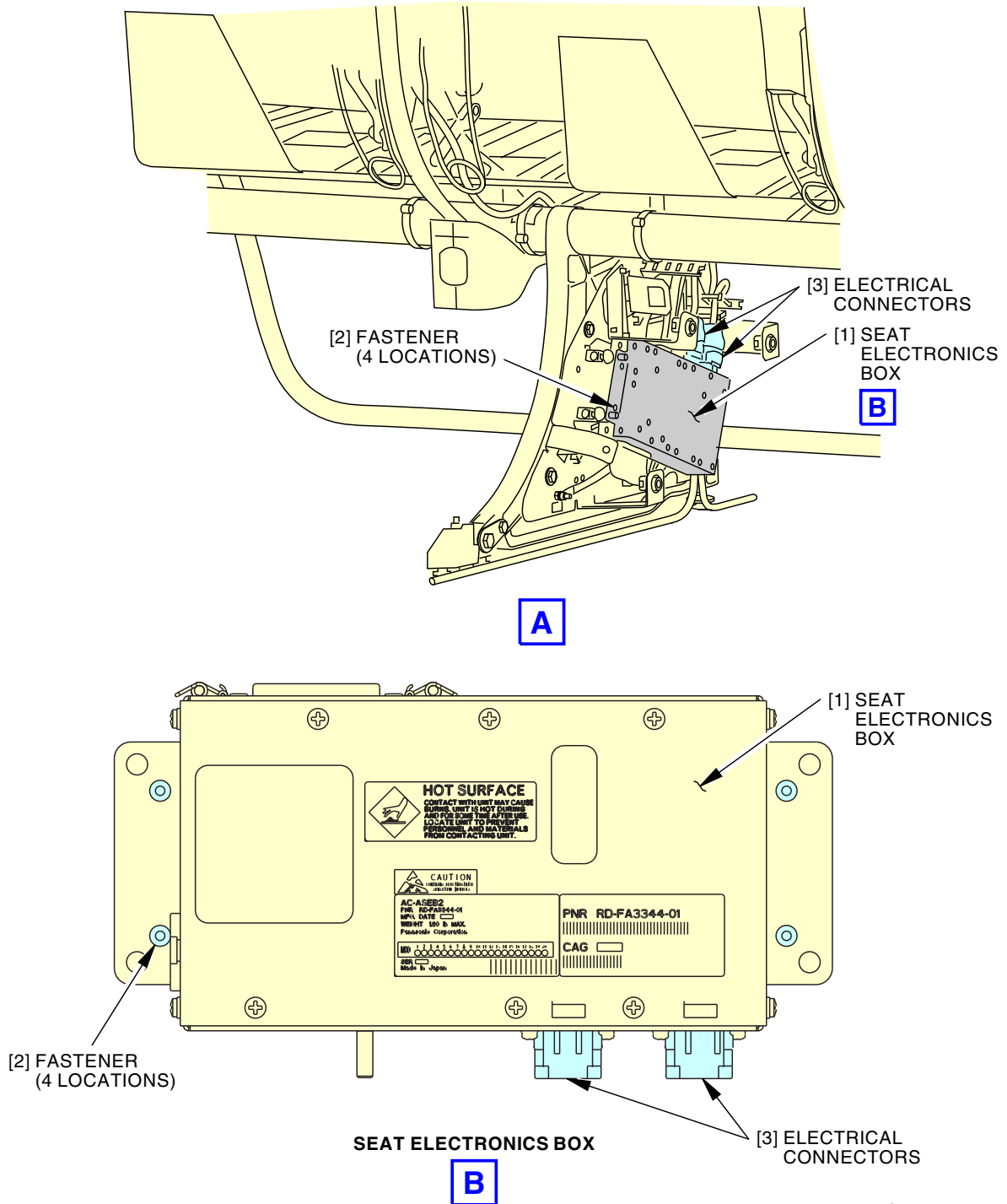
EFFECTIVITY
SIA 001-014

D633AM101-SIA

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2585199 S0000623944_V1

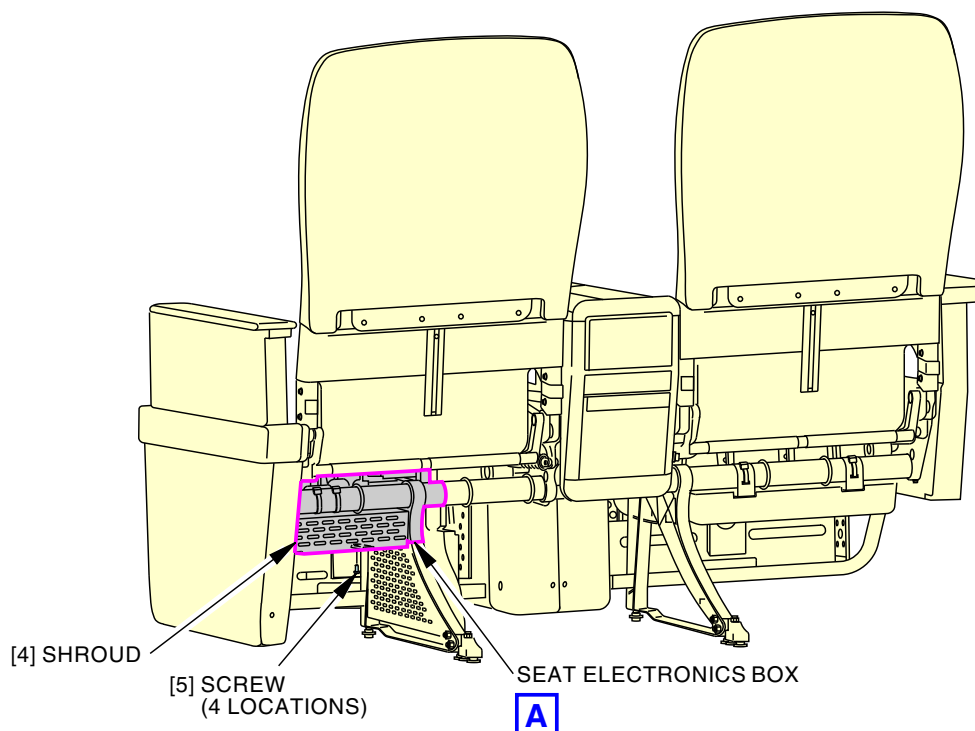
Seat Electronics Box Installation
Figure 401/44-21-10-990-801 (Sheet 2 of 2)

EFFECTIVITY
SIA 001-014

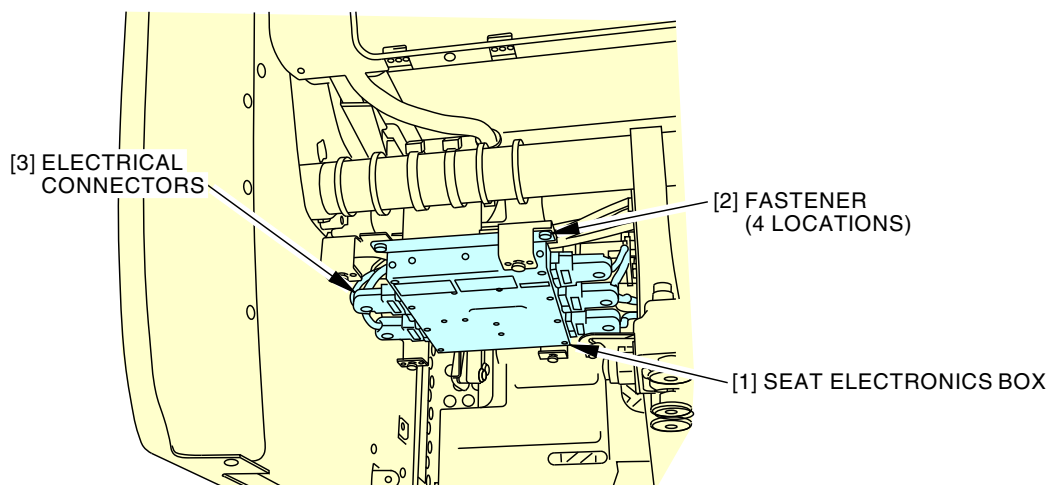
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PASSENGER SEATS
(EXAMPLE)



SEAT ELECTRONICS BOX

A

2793406 S0000636399_V1

Seat Electronics Box Installation
Figure 402/44-21-10-990-802

EFFECTIVITY
SIA 015-999

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TASK 44-21-10-400-801

3. Seat Electronics Box Installation

A. General

- (1) This task has instructions to install the seat electronics box under the passenger seat.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Seat Electronics Box Installation

SUBTASK 44-21-10-910-002



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-10-420-001

- (2) Install the seat electronics box [1]:
- (a) Put the seat electronics box [1] in position under the applicable passenger seat.
 - (b) Install the fasteners [2].
 - (c) Connect the electrical connectors [3].
 - (d) Install the shroud [4].
 - (e) Install the screws [5].

E. Seat Electronics Box Installation Test

SUBTASK 44-21-10-860-002

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
-----	-----	--------	------

SIA 015-999

A	14	C01645	SEAT POWER AFT
---	----	--------	----------------

SIA ALL

A	17	C01644	SEAT POWER FWD
---	----	--------	----------------

SUBTASK 44-21-10-850-001

- (2) Energize the PC power system as follows:
- (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

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SIA 001-014

- (b) Make sure that the Forward Attendant Control Panel (ACP), PED outlet power is set to ON.

SIA ALL

SUBTASK 44-21-10-850-003

- (3) Make sure that the CABIN MAINTENANCE screen is shown on the Crew Terminal (CT).

NOTE: The crew terminal will boot up in 8-10 minutes.

SUBTASK 44-21-10-850-004

- (4) On the CABIN MAINTENANCE screen, select SYSTEM MAINT from the menu.

- (a) On the SYSTEM MAINT screen, select FLIGHT STATE from the menu.

- 1) Make sure that the FLIGHT STATE is OPEN.

SUBTASK 44-21-10-710-001

- (5) On the CABIN MAINTENANCE screen, select the Software CertApp from the menu.

- (a) On the SOFTWARE CERTAPP screen, select PRAM from the menu.

- (b) On the PRAM screen, select any file from the SELECT SOURCE list.

- (c) On the SELECT SOURCE list, select ALLZONE from the SELECT ZONE list.

- (d) On the PRAM screen, select the PLAY ALL button.

- 1) Make sure that the PRAM MESSAGE is heard on the overhead Passenger Address (PA) system.

NOTE: Change the VOLUME LEVEL as necessary, using the '+' and '-' buttons under the CABIN VOLUME to a comfortable listening level.

- (e) Connect a applicable headset to the Remote Jack Unit (RJU).

- 1) Make sure that the PRAM MESSAGE is heard in the headset.

- (f) Adjust the volume level on the Passenger Control Unit (PCU).

- 1) Make sure that the volume level of the PRAM MESSAGE is different in the headset.

- (g) On the PRAM screen, select the STOP button.

- 1) Make sure that the PRAM MESSAGE stops on the overhead PA system.

SIA 001-014

SUBTASK 44-21-10-210-001

- (6) Make sure that the RJM LED indicator is GREEN.

SUBTASK 44-21-10-210-002

- (7) Connect a Personal Electronic Device (PED) to the RJM port in the passenger seat.

- (a) Make sure that the RJM LED indicator is BLUE.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

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AIRCRAFT MAINTENANCE MANUAL

INTEGRATED SERVER - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Integrated Server Removal
 - (2) Integrated Server Installation.
- B. The Pre-Recorded Announcement Machine (PRAM) is a function of the Integrated Server (IS).

TASK 44-21-11-000-801

2. Integrated Server Removal

(Figure 401)

A. General

- (1) This task has instructions to remove the Integrated Server (IS) from the equipment rack.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 401)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right

D. Access Panels

Number	Name/Location
822	Aft Cargo Door

E. Prepare for the Removal

SUBTASK 44-21-11-010-001

- (1) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 44-21-11-010-002

- (2) Open the applicable access panel for the equipment rack.

SUBTASK 44-21-11-860-001

- (3) Open these circuit breakers and install safety tags:

Aft Equip Center Misc Relay & Circuit Breaker Panel, J11

Row	Col	Number	Name
G	4	C04080	IFE INTEGRATED SERVER

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC

EFFECTIVITY
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SUBTASK 44-21-11-910-001



CAUTION

DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

(4) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

F. Integrated Server Removal

SUBTASK 44-21-11-020-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

(1) Remove the integrated server [1] (TASK 20-10-07-000-801).

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

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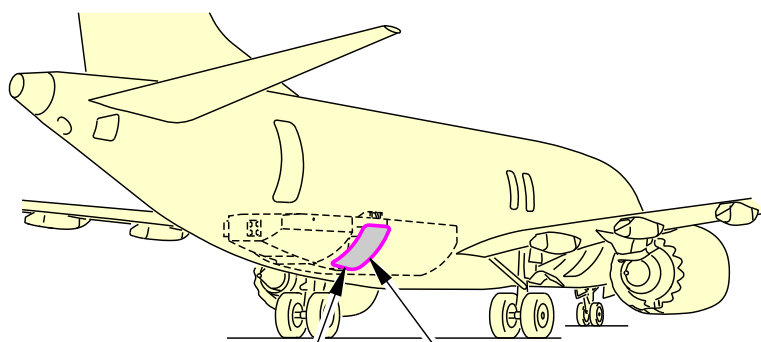
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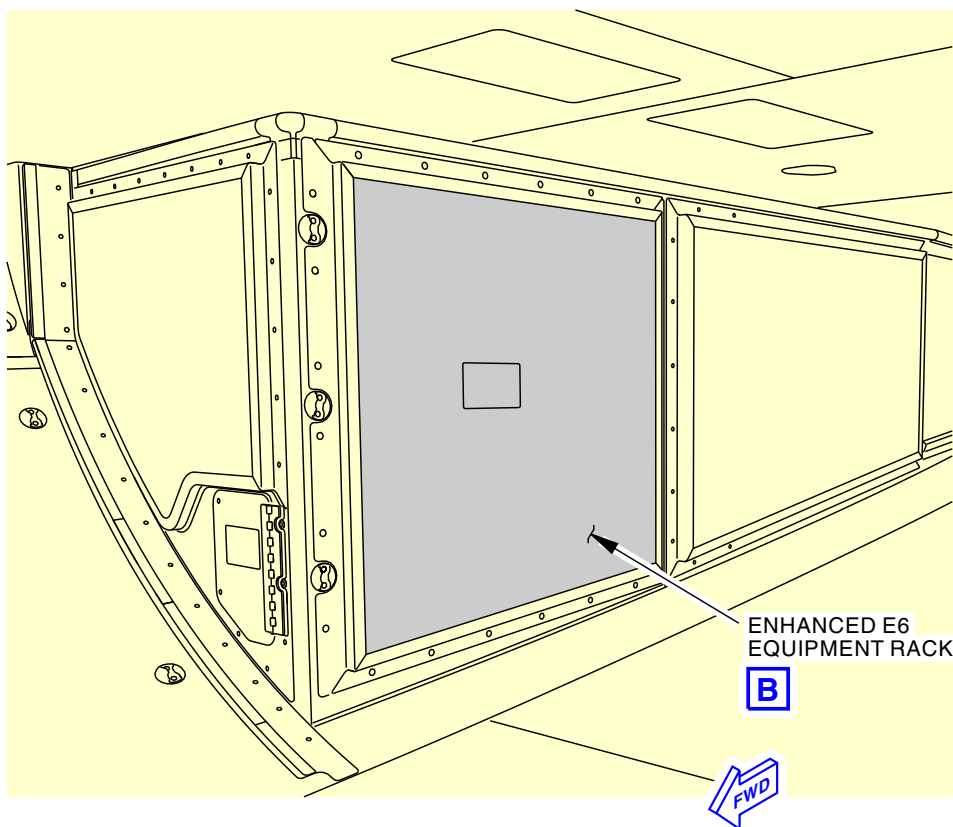
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ENHANCED E6
EQUIPMENT RACK

AFT CARGO
DOOR, 822

A



ENHANCED E6
EQUIPMENT RACK

B



ENHANCED E6 EQUIPMENT RACK

A

2547200 S0000605255_V1

Integrated Server Installation
Figure 401/44-21-11-990-801 (Sheet 1 of 3)

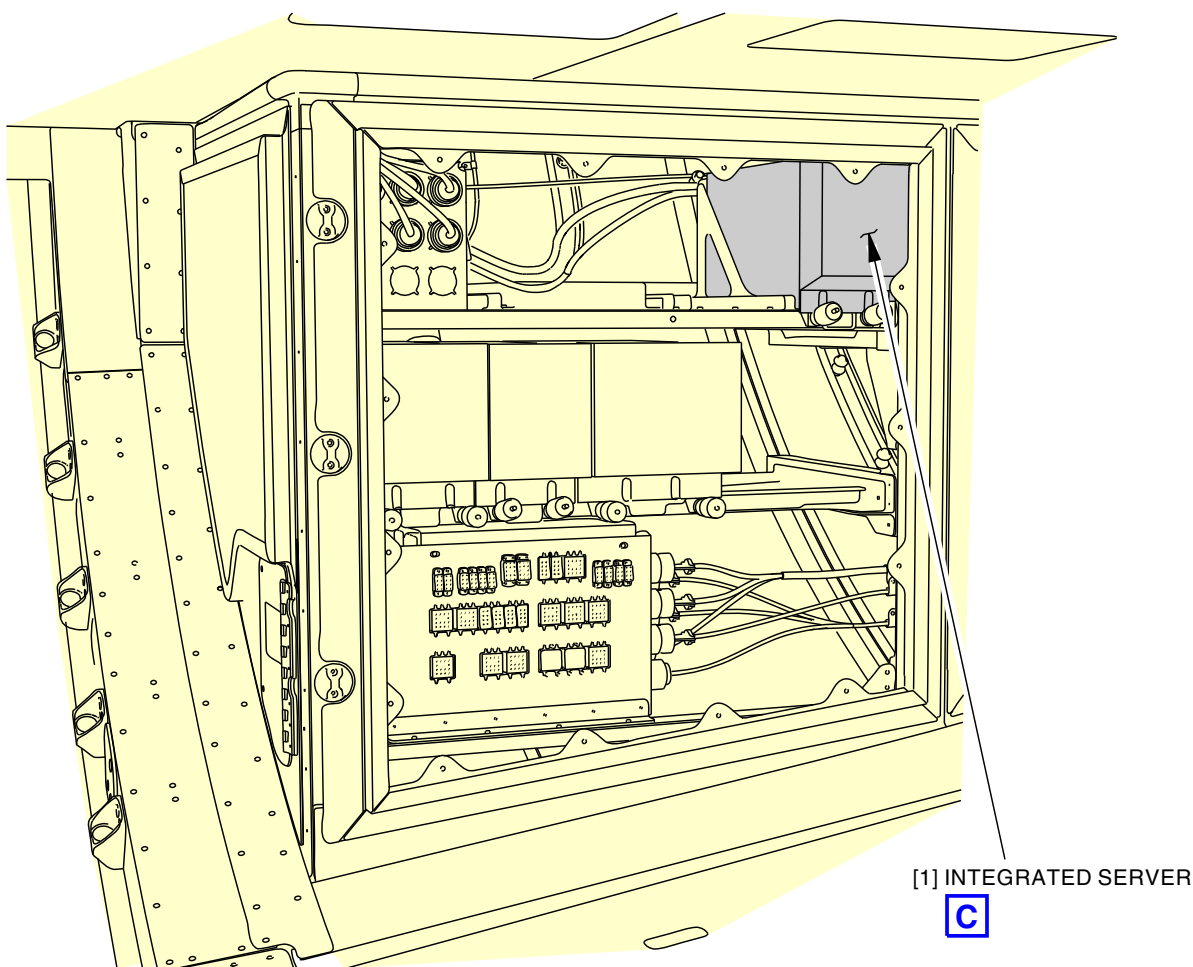
EFFECTIVITY
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INTEGRATED SERVER INSTALLATION

B



2567470 S0000614663_V1

Integrated Server Installation
Figure 401/44-21-11-990-801 (Sheet 2 of 3)

EFFECTIVITY
SIA ALL

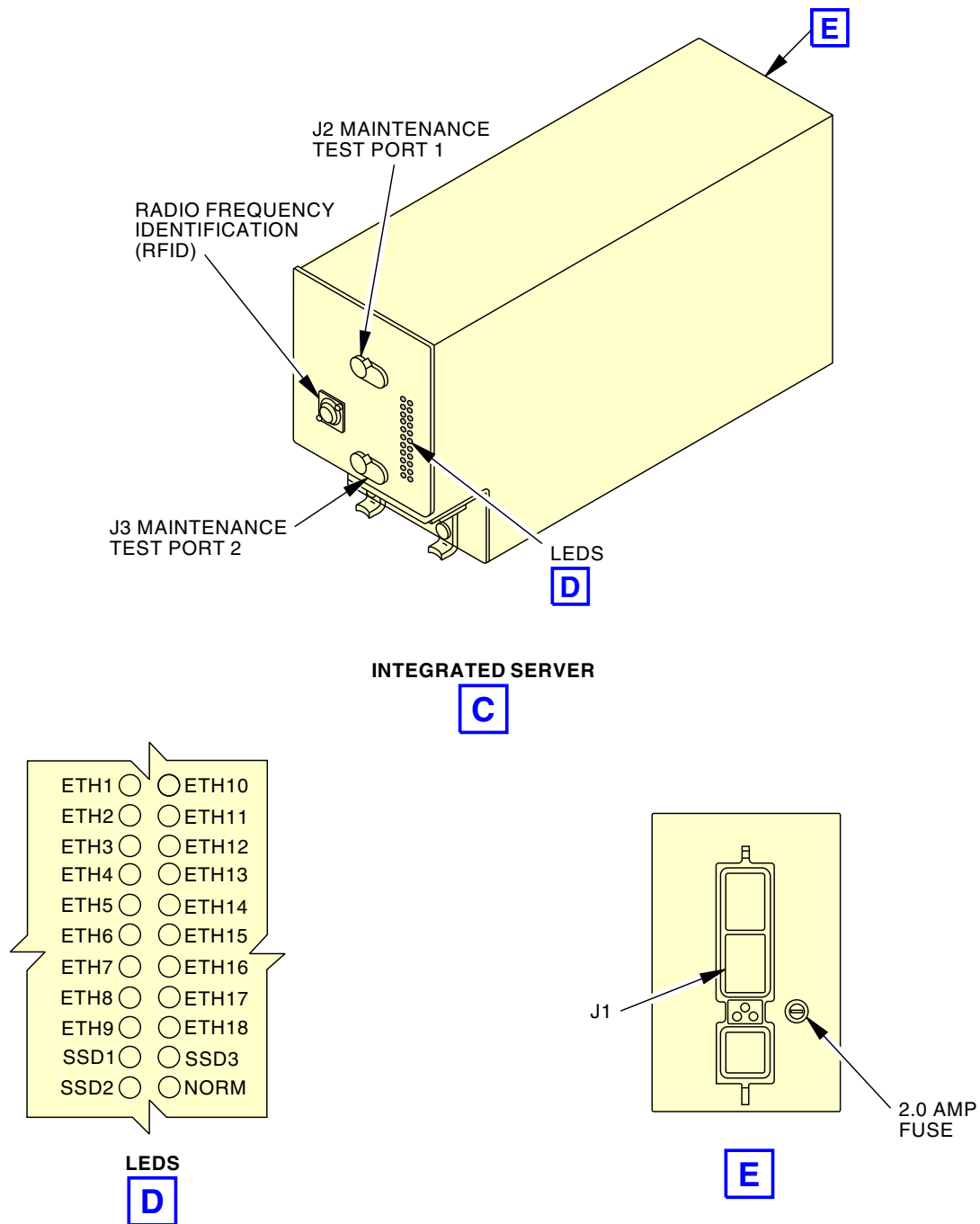
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2567471 S0000614664_V1

**Integrated Server Installation
Figure 401/44-21-11-990-801 (Sheet 3 of 3)**

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TASK 44-21-11-400-801

3. Integrated Server Installation

(Figure 401)

A. General

- (1) This task has instructions to install the Integrated Server (IS) in the equipment rack.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 401)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-470-801	Server Based Entertainment System Software Load (P/B 201)
44-21-00-730-801	Video Entertainment System - System Test (P/B 501)
44-21-00-740-801	Video Entertainment System (BITE) Test (P/B 501)
44-21-00-860-801	Server Based Entertainment System Configuration Check (P/B 201)

C. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right

D. Access Panels

Number	Name/Location
822	Aft Cargo Door

E. Integrated Server Installation

SUBTASK 44-21-11-910-002



DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-11-420-001



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Install the integrated server [1] (TASK 20-10-07-400-801).

F. Integrated Server Installation Test

SUBTASK 44-21-11-860-002

- (1) Remove the safety tags and close these circuit breakers:

Aft Equip Center Misc Relay & Circuit Breaker Panel, J11

Row	Col	Number	Name
G	4	C04080	IFE INTEGRATED SERVER

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F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	9	C01945	IFE AC

SUBTASK 44-21-11-860-003

- (2) Do this task: Server Based Entertainment System Configuration Check, TASK 44-21-00-860-801.

SUBTASK 44-21-11-860-004

- (3) Do this task: Server Based Entertainment System Software Load, TASK 44-21-00-470-801.

SUBTASK 44-21-11-740-001

- (4) Do this task: Video Entertainment System (BITE) Test, TASK 44-21-00-740-801.

(a) Make sure that no faults are reported.

SUBTASK 44-21-11-710-001

- (5) Do this task: Video Entertainment System - System Test, TASK 44-21-00-730-801.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-11-410-001

- (1) Close the applicable access panel for the equipment rack.

SUBTASK 44-21-11-410-002

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

————— END OF TASK —————

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CREW TERMINAL - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Crew Terminal Removal
 - (2) Crew Terminal Installation.

TASK 44-21-12-000-801

2. Crew Terminal Removal

(Figure 401)

A. General

- (1) This task has instructions to remove the crew terminal from the aft face of the lavatory wall.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. Location Zones

Zone	Area
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the Removal

SUBTASK 44-21-12-860-001

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC

SUBTASK 44-21-12-910-001



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. Crew Terminal Removal

SUBTASK 44-21-12-020-001

- (1) Remove the shroud [2]:
 - (a) Remove the attendant headrests below the shroud [2].
 - (b) Remove the four screws [3] that attach to the shroud [2].
 - (c) Carefully pull the shroud [2] from the aft face of the lavatory wall.

SUBTASK 44-21-12-020-002

- (2) Remove the crew terminal [1]:
 - (a) Disconnect the J2 connector [10] and J1 connector [9] from the crew terminal [1].
 - (b) Disconnect the nut [8], washer [7], and jumper [6] from the ground stud on the crew terminal [1].

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- (c) Remove the six screws [4] and six washers [5] that attach to the crew terminal [1] on the aft face of the lavatory wall.
- (d) Remove the crew terminal [1] between the brackets on the aft face of the lavatory wall.

SUBTASK 44-21-12-020-003

- (3) If it is necessary, remove the inline coupler [14]:
 - (a) Remove the two screws [12] and two washers [13] from the bracket [11].
 - (b) Remove the bracket [11] that attach to the left bracket.
 - (c) Pull the inline coupler [14] from the left bracket.

———— **END OF TASK** ————

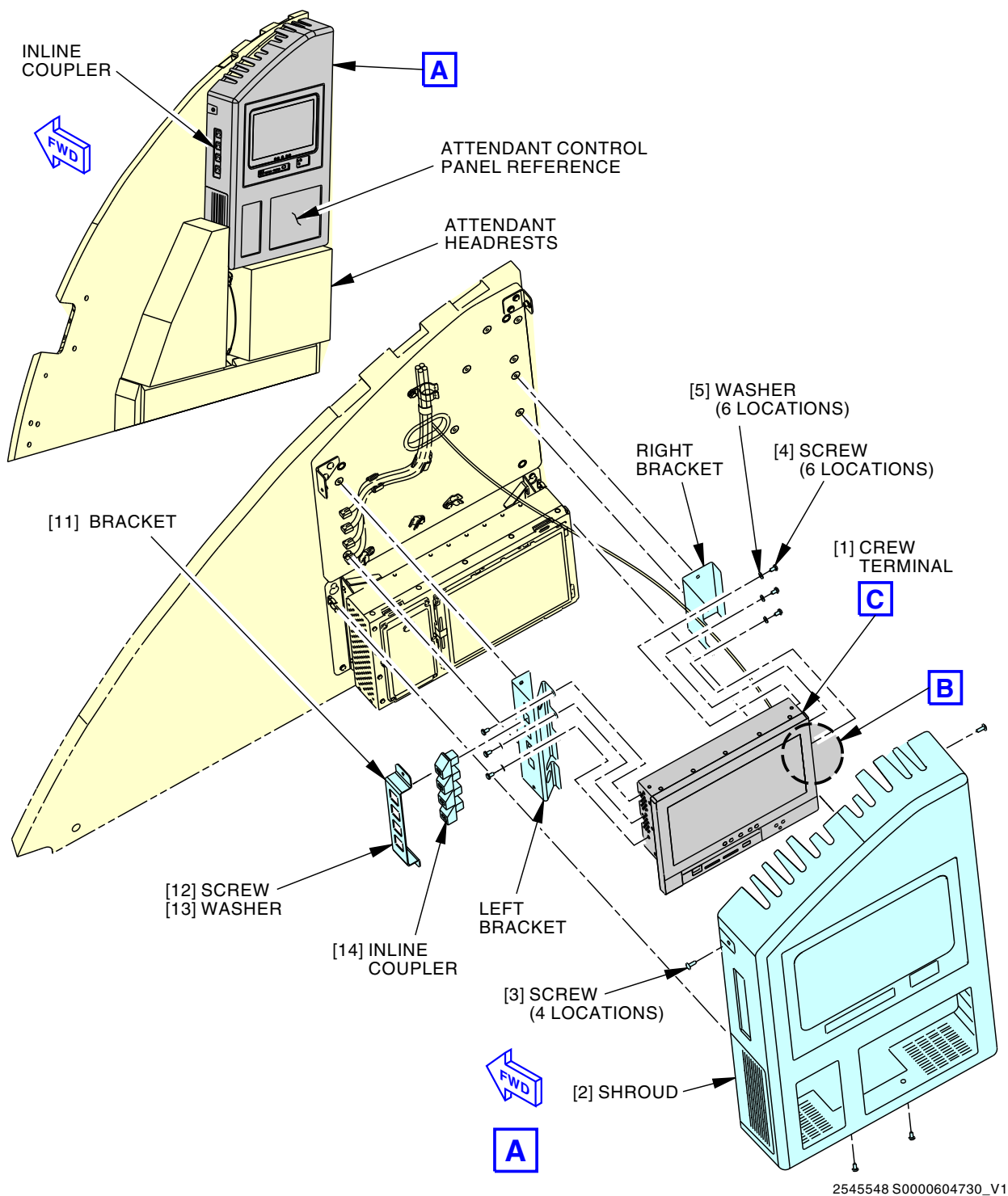
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Crew Terminal Installation
Figure 401/44-21-12-990-801 (Sheet 1 of 2)

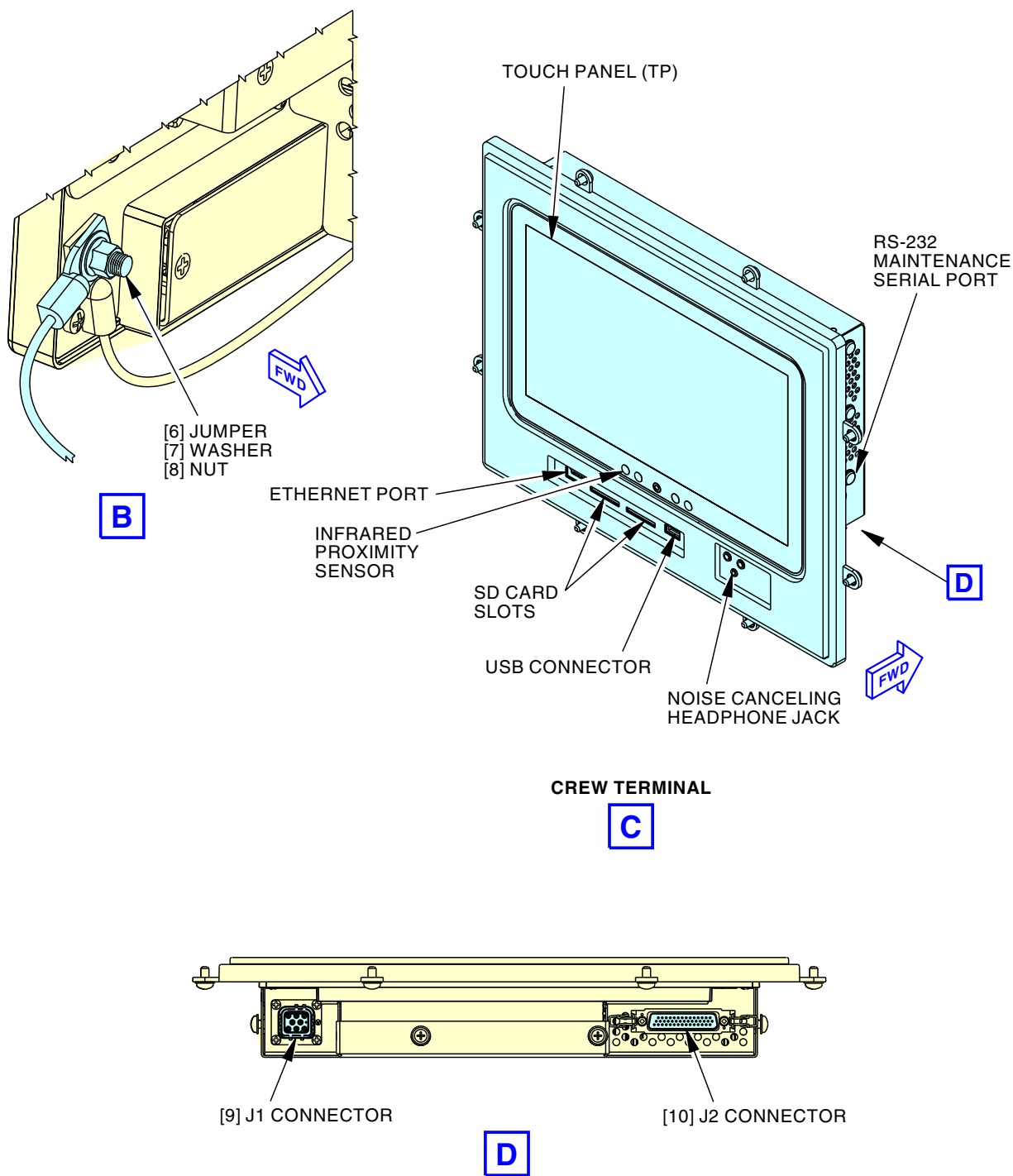
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Crew Terminal Installation
Figure 401/44-21-12-990-801 (Sheet 2 of 2)

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TASK 44-21-12-400-801

3. Crew Terminal Installation

(Figure 401)

A. General

(1) This task has instructions to install the crew terminal on the aft face of the lavatory wall.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-710-801	Digital Overhead Monitor Power On Test (P/B 501)
44-21-00-710-802	Data and Media Port Ping Test (P/B 501)
44-21-00-730-801	Video Entertainment System - System Test (P/B 501)
44-21-00-740-801	Video Entertainment System (BITE) Test (P/B 501)
44-21-00-860-801	Server Based Entertainment System Configuration Check (P/B 201)
44-35-00-740-801	Exconnect Quick Test (BITE) (P/B 501)
44-35-00-860-805	System Configuration Check (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Crew terminal	44-21-12-01-190	SIA ALL

E. Location Zones

Zone	Area
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

F. Crew Terminal Installation

SUBTASK 44-21-12-910-002



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

(1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

EFFECTIVITY
SIA ALL

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SUBTASK 44-21-12-420-001

- (2) If it is necessary, install the inline coupler [14]:
 - (a) Push the inline coupler [14] on the left bracket.
 - (b) Put the bracket [11] over the inline coupler [14].
 - (c) Install the two screws [12] and two washers [13] to the bracket [11].

SUBTASK 44-21-12-420-002

- (3) Install the crew terminal [1]:
 - (a) Put the crew terminal [1] between the brackets on the aft face of the lavatory wall.
 - (b) Install the six screws [4] and six washers [5] that attach to the crew terminal [1] to the brackets on the aft face of the lavatory wall.
 - (c) Connect the jumper [6], washer [7], and nut [8] to the ground stud on the crew terminal [1].
 - (d) Measure the resistance between the jumper [6] and the ground stud with an intrinsically safe approved bonding meter, COM-1550 (SWPM 20-20-00, Paragraph 21).
 - 1) Make sure that the resistance is 1.0 milliohms or less.
 - (e) Connect the J2 connector [10] and J1 connector [9] to the crew terminal [1].

SUBTASK 44-21-12-420-003

- (4) Install the shroud [2]:
 - (a) Carefully put the shroud [2] over the crew terminal [1] on the aft face of the lavatory wall.
 - (b) Install the four screws [3] that attach to the shroud [2].
 - (c) Install the attendant headrest below the shroud [2].

G. Crew Terminal Installation Test

SUBTASK 44-21-12-860-002

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	9	C01945	IFE AC

SUBTASK 44-21-12-850-001

- (2) Set the overhead panel P5-13, IFE/PASS SEAT, switch to ON.

SUBTASK 44-21-12-850-002

- (3) On the Forward Attendant Control Panel (ACP), push the PASSENGER SERVICES button.

NOTE: The crew terminal will boot-up in approximately 8-10 minutes.

- (a) Make sure that the MAIN MENU screen is shown on the crew terminal.

SUBTASK 44-21-12-710-001

- (4) Do this task: Data and Media Port Ping Test, TASK 44-21-00-710-802.

SUBTASK 44-21-12-860-003

- (5) Do this task: Server Based Entertainment System Configuration Check, TASK 44-21-00-860-801.

SUBTASK 44-21-12-740-002

- (6) Do this task: Video Entertainment System (BITE) Test, TASK 44-21-00-740-801.
 - (a) Make sure that no faults are reported.

EFFECTIVITY
SIA ALL

D633AM101-SIA

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SIA 001-014

SUBTASK 44-21-12-710-002

(7) Do this task: Digital Overhead Monitor Power On Test, TASK 44-21-00-710-801.

SIA ALL

SUBTASK 44-21-12-730-001

(8) Do this task: Video Entertainment System - System Test, TASK 44-21-00-730-801.

SIA 015-999

SUBTASK 44-21-12-860-004

(9) Do this task: System Configuration Check, TASK 44-35-00-860-805.

SUBTASK 44-21-12-740-001

(10) Do this task: Exconnect Quick Test (BITE), TASK 44-35-00-740-801.

(a) Make sure that no faults are reported.

SIA ALL

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-12-850-003

(1) Make sure that the overhead panel P5-13, IFE/PASS SEAT, switch is OFF.

———— **END OF TASK** ————

EFFECTIVITY
SIA ALL

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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REMOTE JACK MODULE - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

- (1) Remote Jack Module (RJM) Removal
- (2) Remote Jack Module (RJM) Installation.

TASK 44-21-13-000-801

2. Remote Jack Module (RJM) Removal

(Figure 401)

A. **General**

- (1) This task has instructions to remove the Remote Jack Module (RJM) in the passenger seat.

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Remote Jack Module (RJM) Removal**

SUBTASK 44-21-13-020-001

- (1) Remove the RJM [1]:
 - (a) Loosen the screw [2].
 - (b) Pull the RJM [1] from the passenger seat.
 - (c) Disconnect the electrical connector [3].

———— **END OF TASK** ————

EFFECTIVITY
SIA 001-014

D633AM101-SIA

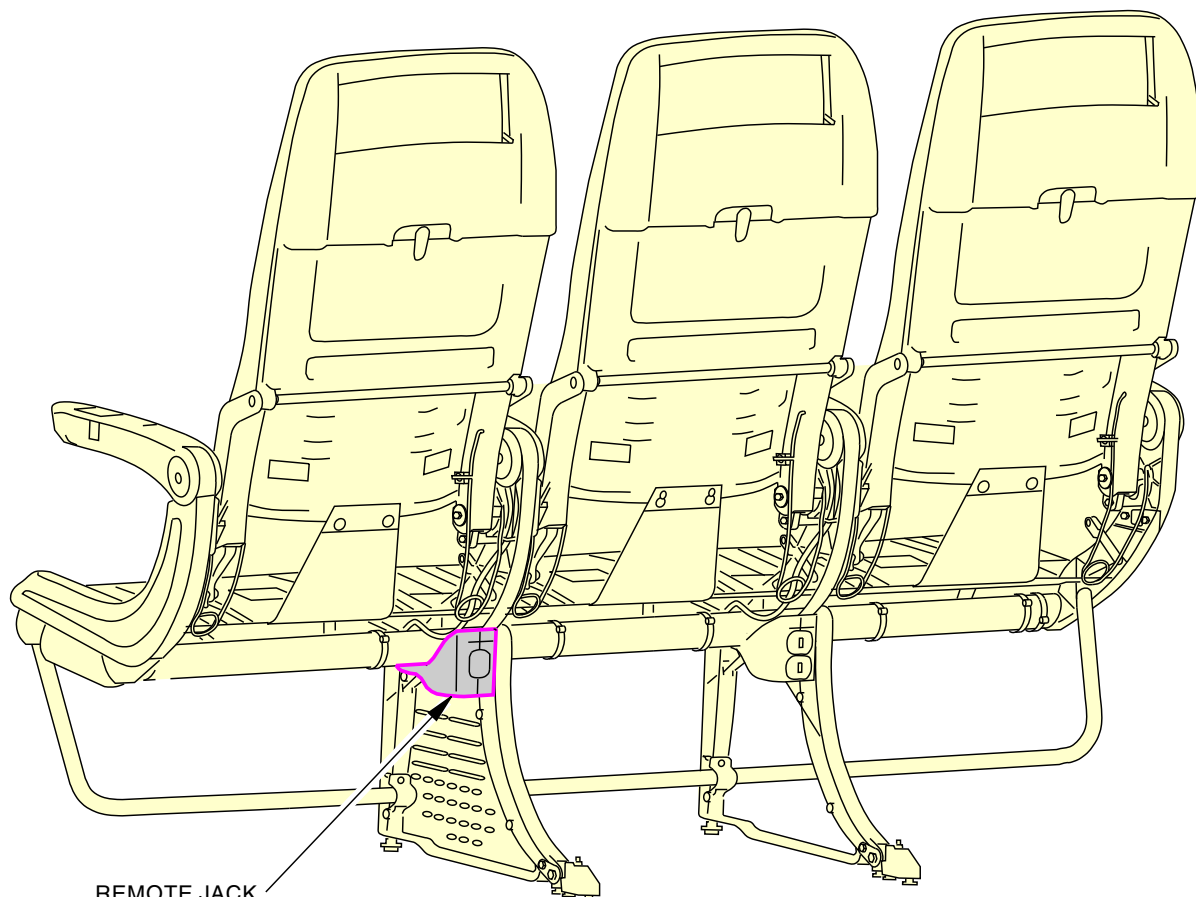
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REMOTE JACK
MODULE (RJM)

A

PASSENGER SEATS
(EXAMPLE)

2585283 S0000622718_V1

Remote Jack Module (RJM) Installation
Figure 401/44-21-13-990-801 (Sheet 1 of 2)

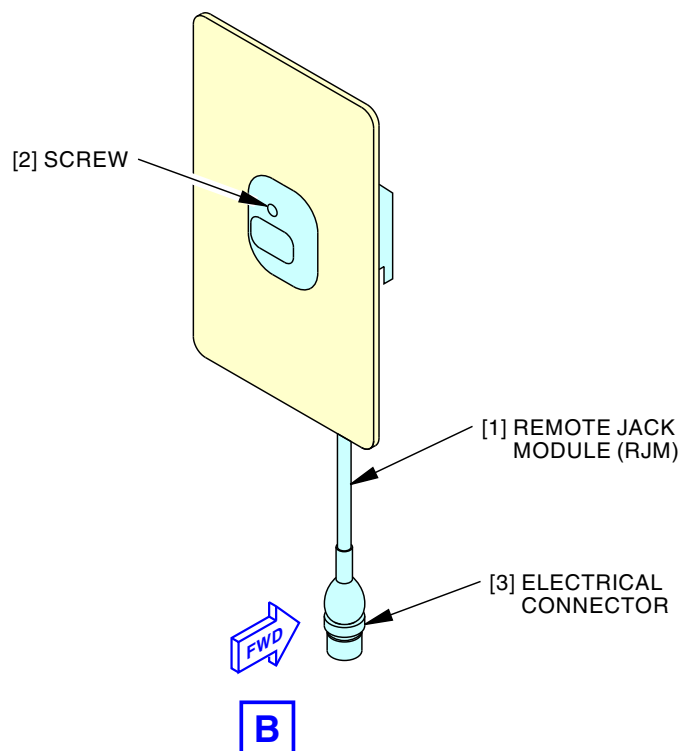
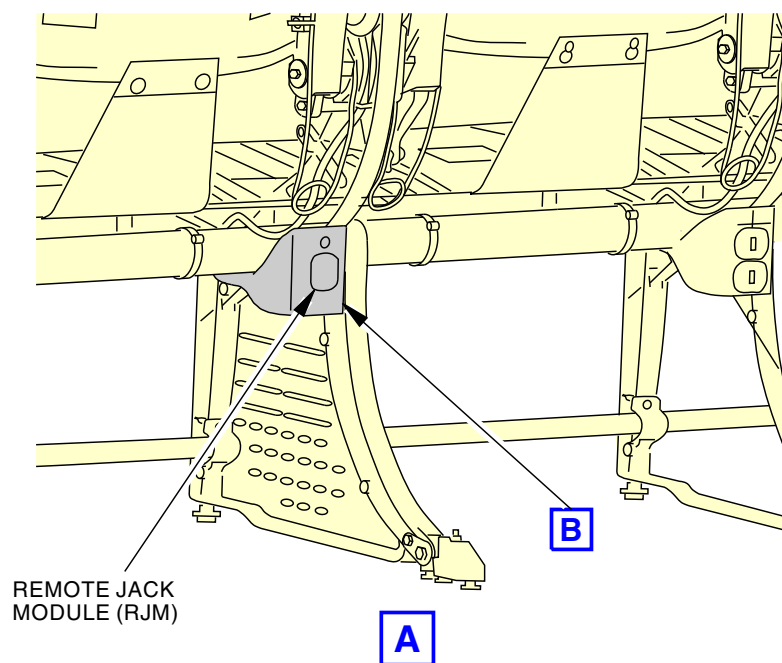
EFFECTIVITY
SIA 001-014

D633AM101-SIA

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Remote Jack Module (RJM) Installation

Figure 401/44-21-13-990-801 (Sheet 2 of 2)

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TASK 44-21-13-400-801

3. **Remote Jack Module (RJM) Installation**

(Figure 401)

A. General

- (1) This task has instructions to install the Remote Jack Module (RJM) in the passenger seat.

B. Location Zones

Zone	Area
------	------

200	Upper Half of Fuselage
-----	------------------------

C. Remote Jack Module (RJM) Installation

SUBTASK 44-21-13-420-001

- (1) Install the RJM [1]:
- (a) Connect the electrical connector [3].
 - (b) Put the RJM [1] in the passenger seat.
 - (c) Tighten the screw [2].

D. Remote Jack Module (RJM) Installation Test

SUBTASK 44-21-13-850-001

- (1) Energize the PC power system as follows:
- (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.
 - (b) Make sure that the Forward Attendant Control Panel (ACP), PED outlet power is set to ON.

SUBTASK 44-21-13-210-001

- (2) Make sure that the RJM LED indicator is GREEN.

SUBTASK 44-21-13-210-002

- (3) Connect a Personal Electronic Device (PED) to the RJM port in the passenger seat.
- (a) Make sure that the RJM LED indicator is BLUE.

————— **END OF TASK** —————

EFFECTIVITY
SIA 001-014

D633AM101-SIA

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ON-BOARD MEDIA LOADER - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) On-Board Media Loader Removal
 - (2) On-Board Media Loader Installation.

TASK 44-21-15-000-801

2. On-Board Media Loader Removal

(Figure 401)

A. **General**

- (1) This task has instructions to remove the on-board media loader.

B. **References**

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 401)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. **Location Zones**

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. **Access Panels**

Number	Name/Location
822	Aft Cargo Door

E. **Prepare for the Removal**

SUBTASK 44-21-15-010-003

- (1) Open this access panel:

Number	Name/Location
822	Aft Cargo Door

SUBTASK 44-21-15-010-001

- (2) Open the applicable access panel.

SUBTASK 44-21-15-860-001

- (3) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
D	12	C04075	CWAP/SERVER



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SUBTASK 44-21-15-910-001



CAUTION

DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

(4) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

F. On-Board Media Loader Removal

SUBTASK 44-21-15-020-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

(1) Remove the on-board media loader [1] (TASK 20-10-07-000-801).

———— **END OF TASK** ————

EFFECTIVITY
SIA 015-999

D633AM101-SIA

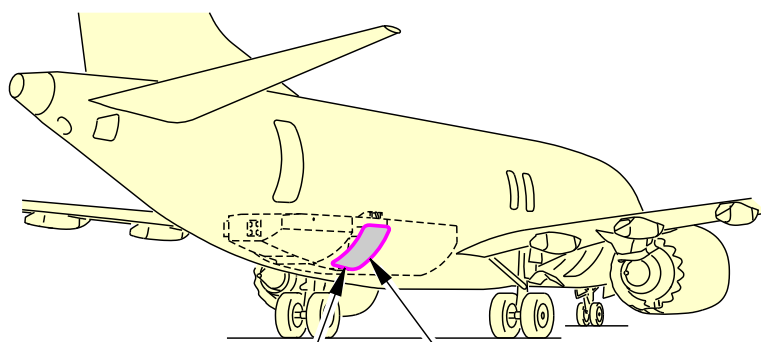
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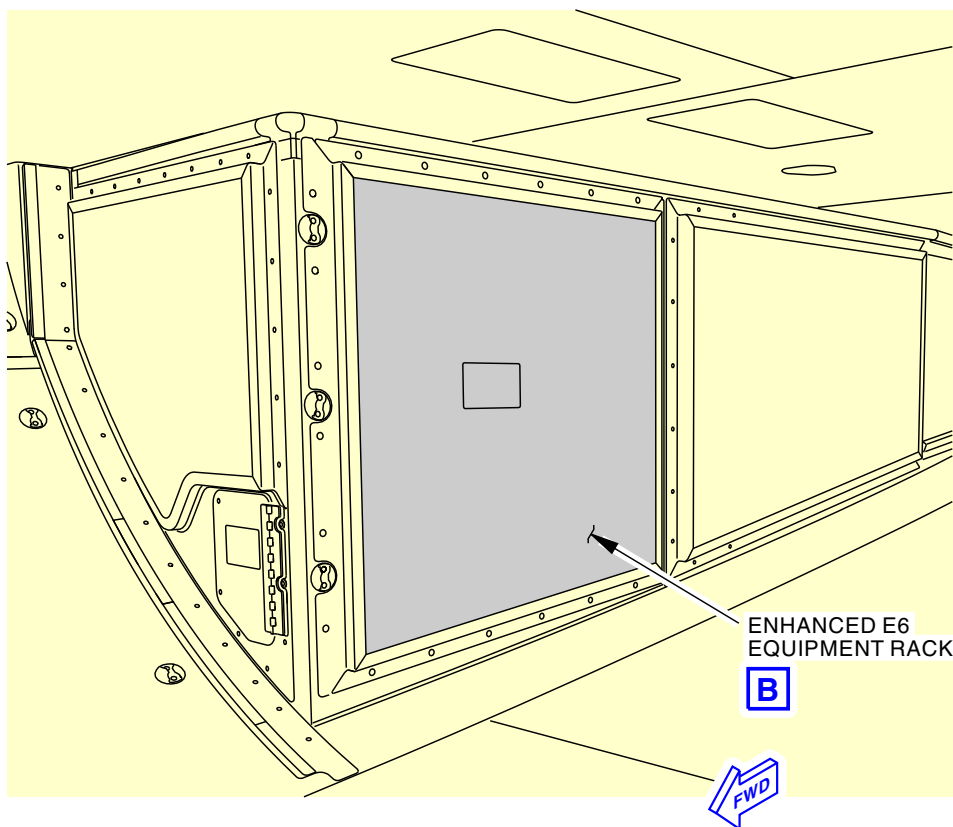
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ENHANCED E6
EQUIPMENT RACK

AFT CARGO
DOOR, 822

A



ENHANCED E6
EQUIPMENT RACK

B



ENHANCED E6 EQUIPMENT RACK

A

2547200 S0000605255_V1

On-Board Media Loader Installation
Figure 401/44-21-15-990-805 (Sheet 1 of 3)

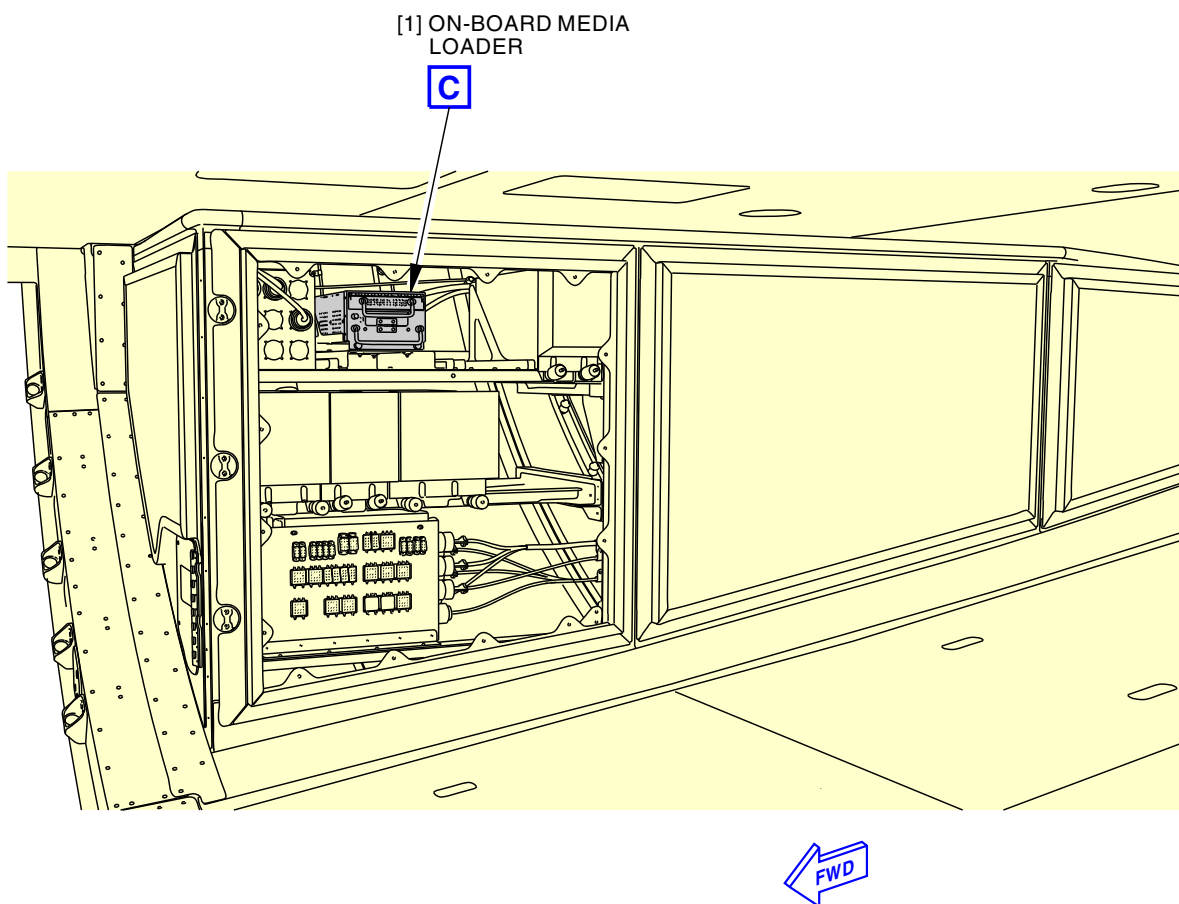
EFFECTIVITY
SIA 015-999

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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ENHANCED E6 EQUIPMENT RACK
(ACCESS DOOR REMOVED)

B

2547237 S0000605259_V2

On-Board Media Loader Installation
Figure 401/44-21-15-990-805 (Sheet 2 of 3)

EFFECTIVITY
SIA 015-999

D633AM101-SIA

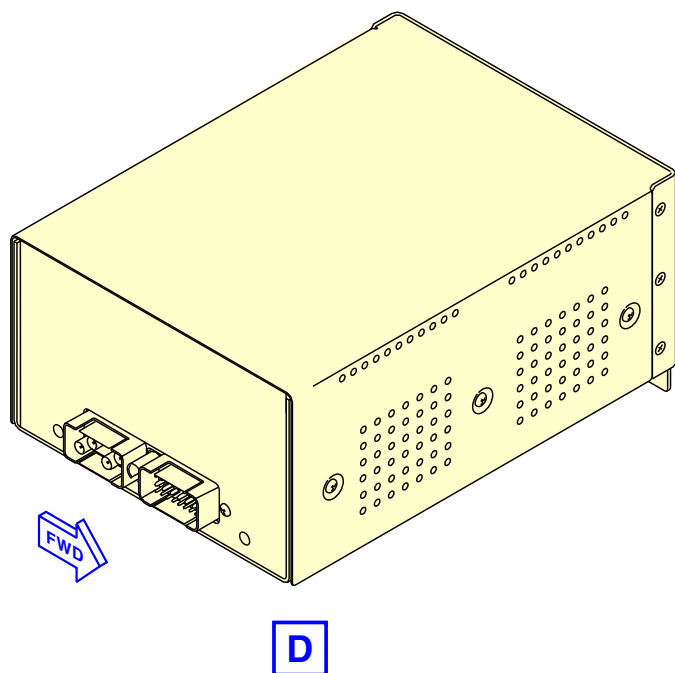
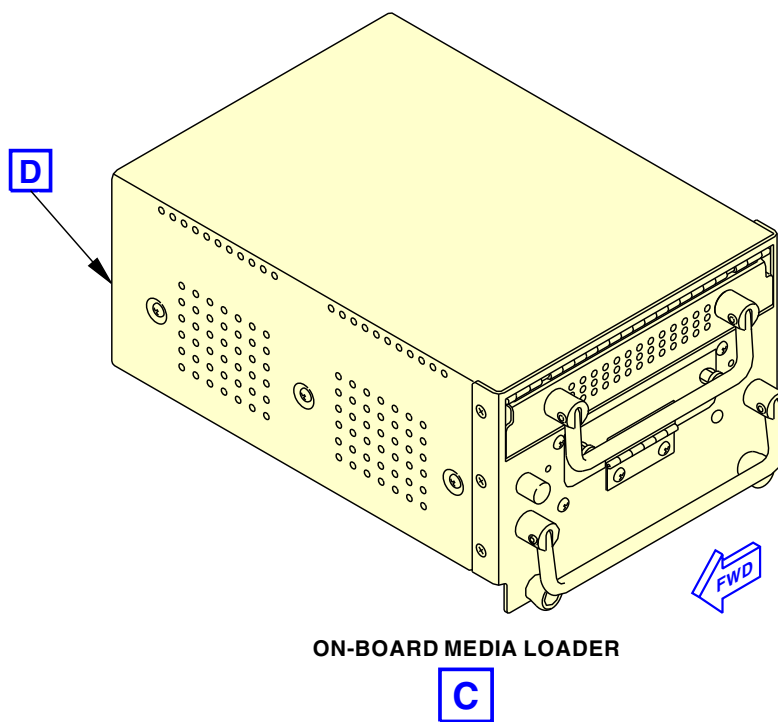
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2548235 S0000605274_V1

On-Board Media Loader Installation
Figure 401/44-21-15-990-805 (Sheet 3 of 3)

EFFECTIVITY
SIA 015-999

D633AM101-SIA

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TASK 44-21-15-400-801

3. On-Board Media Loader Installation

(Figure 401)

A. General

- (1) This task has instructions to install the on-board media loader.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 401)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-35-00-740-801	Exconnect Quick Test (BITE) (P/B 501)
44-35-00-860-805	System Configuration Check (P/B 201)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	On-board media loader	44-21-15-20-010	SIA 015-999

D. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

E. Access Panels

Number	Name/Location
822	Aft Cargo Door

F. On-Board Media Loader Installation

SUBTASK 44-21-15-910-002



CAUTION

DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-15-420-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Install the on-board media loader [1] (TASK 20-10-07-400-801).

G. On-Board Media Loader Installation Test

SUBTASK 44-21-15-860-002

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC

EFFECTIVITY
SIA 015-999

44-21-15

D633AM101-SIA

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F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	12	C04075	CWAP/SERVER

SUBTASK 44-21-15-210-001

- (2) Make sure that the POWER LED is GREEN.

NOTE: The On-Board Media Loader will do a self test when powered on.

SUBTASK 44-21-15-210-002

- (3) Make sure that the yellow LED is OFF.

SUBTASK 44-21-15-740-001

- (4) Do this task: Exconnect Quick Test (BITE), TASK 44-35-00-740-801.

- (a) Make sure that no faults are reported.

SUBTASK 44-21-15-860-010

- (5) Do this task: System Configuration Check, TASK 44-35-00-860-805.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-15-410-001

- (1) Close the applicable access panel.

SUBTASK 44-21-15-410-003

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

————— **END OF TASK** —————



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SEAT POWER MODULE - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Seat Power Module Removal
 - (2) Seat Power Module Installation.

TASK 44-21-22-000-801

2. Seat Power Module Removal

(Figure 401)

A. **General**

- (1) This task has instructions to remove the seat power module.

B. **References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

D. **Prepare for the Removal**

SUBTASK 44-21-22-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
A	14	C01645	SEAT POWER AFT
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-22-910-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. **Seat Power Module Removal**

SUBTASK 44-21-22-020-001

- (1) Remove the seat power module [1]:
 - (a) Remove the screws [5].
 - (b) Remove the shroud [4].
 - (c) Disconnect the electrical connectors [3].

EFFECTIVITY
SIA 015-999

D633AM101-SIA

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- (d) Remove the fasteners [2].

————— **END OF TASK** —————

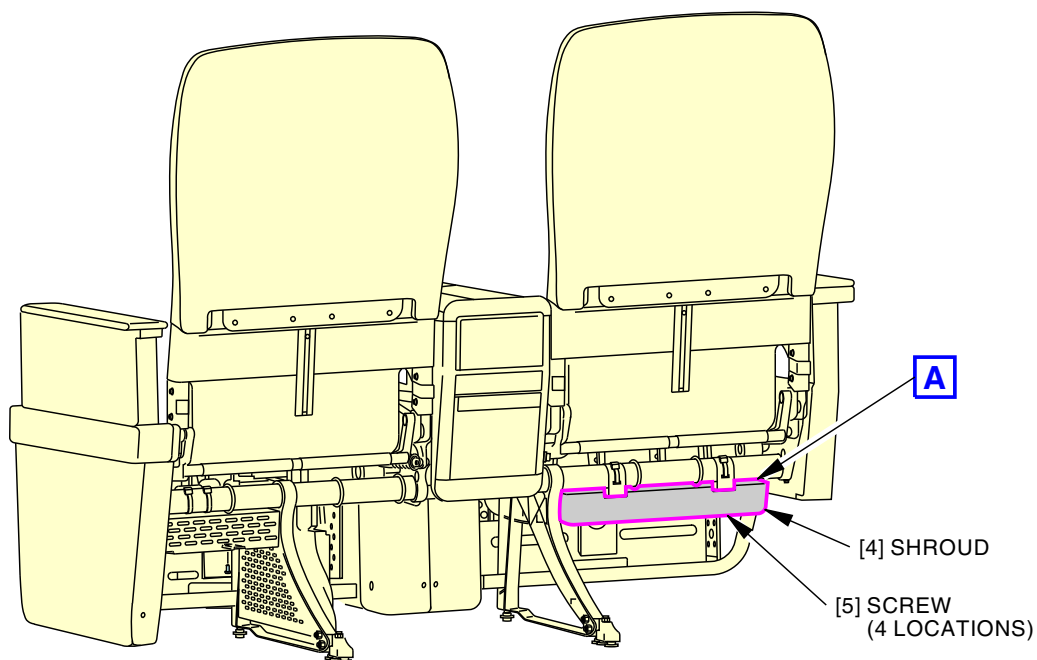
EFFECTIVITY
SIA 015-999

D633AM101-SIA

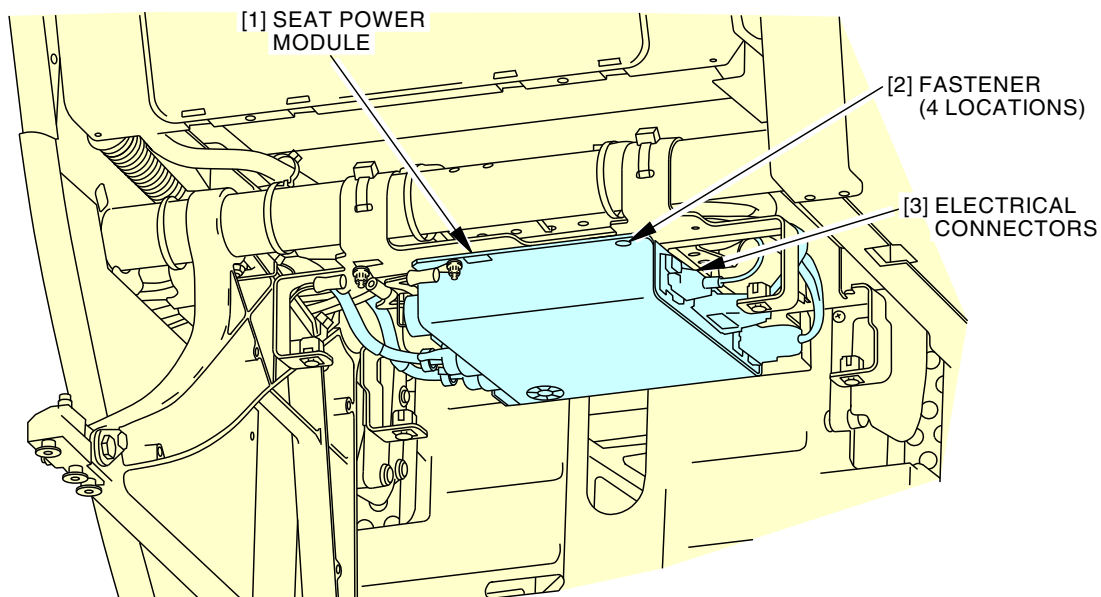
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PASSENGER SEATS
(EXAMPLE)



SEAT POWER MODULE

A

2793423 S0000636332_V1

Seat Power Module Installation
Figure 401/44-21-22-990-801

EFFECTIVITY
SIA 015-999

D633AM101-SIA

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TASK 44-21-22-400-801

3. Seat Power Module Installation

(Figure 401)

A. General

- (1) This task has instructions to install the seat power module.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-710-805	Passenger Seat Power On Test (P/B 501)
44-21-00-860-801	Server Based Entertainment System Configuration Check (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Seat Power Module Installation

SUBTASK 44-21-22-910-002



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-22-420-001

- (2) Install the seat power module [1]:
- (a) Put the seat power module [1] in position under the applicable passenger seat.
 - (b) Install the fasteners [2].
 - (c) Connect the electrical connectors [3].
 - (d) Install the shroud [4].
 - (e) Install the screws [5].

E. Seat Power Module Installation Test

SUBTASK 44-21-22-860-002

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
A	14	C01645	SEAT POWER AFT
A	17	C01644	SEAT POWER FWD



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SUBTASK 44-21-22-860-003

- (2) Do this task: Server Based Entertainment System Configuration Check, TASK 44-21-00-860-801.

SUBTASK 44-21-22-710-001

- (3) Do this task: Passenger Seat Power On Test, TASK 44-21-00-710-805.

———— **END OF TASK** ————

EFFECTIVITY
SIA 015-999

D633AM101-SIA

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SEATBACK MONITOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Seatback Monitor Removal
 - (2) Seatback Monitor Installation.

TASK 44-21-34-000-801

2. Seatback Monitor Removal

(Figure 401)

A. **General**

- (1) This task has instructions to remove the seatback monitor on the passenger seat.

B. **References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

D. **Prepare for the Removal**

SUBTASK 44-21-34-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
A	14	C01645	SEAT POWER AFT
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-34-910-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. **Seatback Monitor Removal**

SUBTASK 44-21-34-020-001

- (1) Remove the seatback monitor [1]:
 - (a) Remove the seat bezel [2] from the passenger seat.
 - (b) Carefully pull the seatback monitor [1] from the bracket [3].
 - (c) Disconnect the connector [4] on the seatback monitor [1].

EFFECTIVITY
SIA 015-999

D633AM101-SIA

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- (d) If necessary, remove the screws [5].

———— **END OF TASK** ————

EFFECTIVITY
SIA 015-999

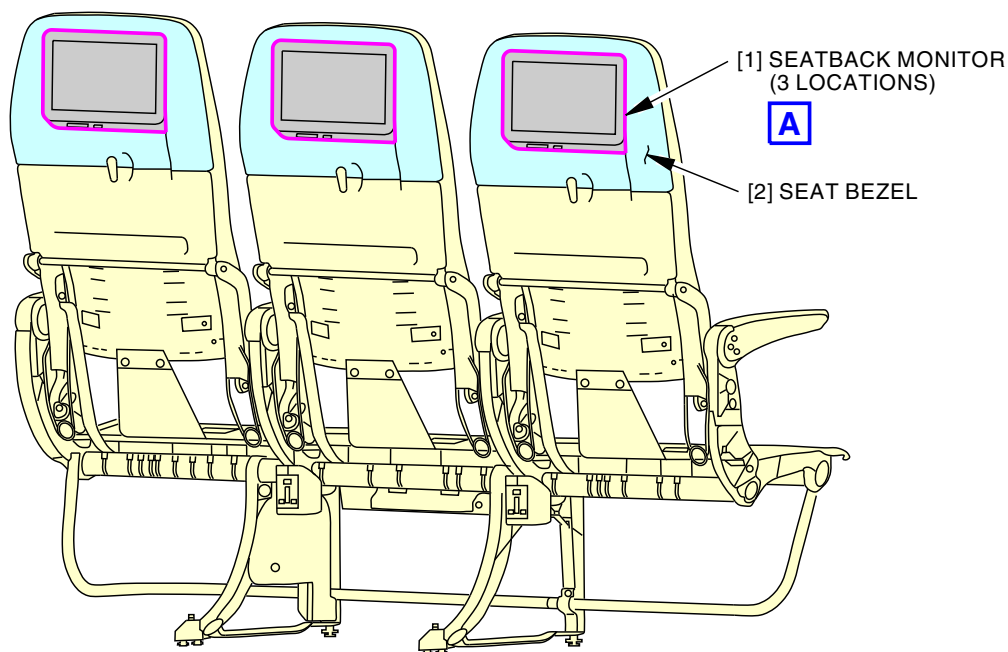
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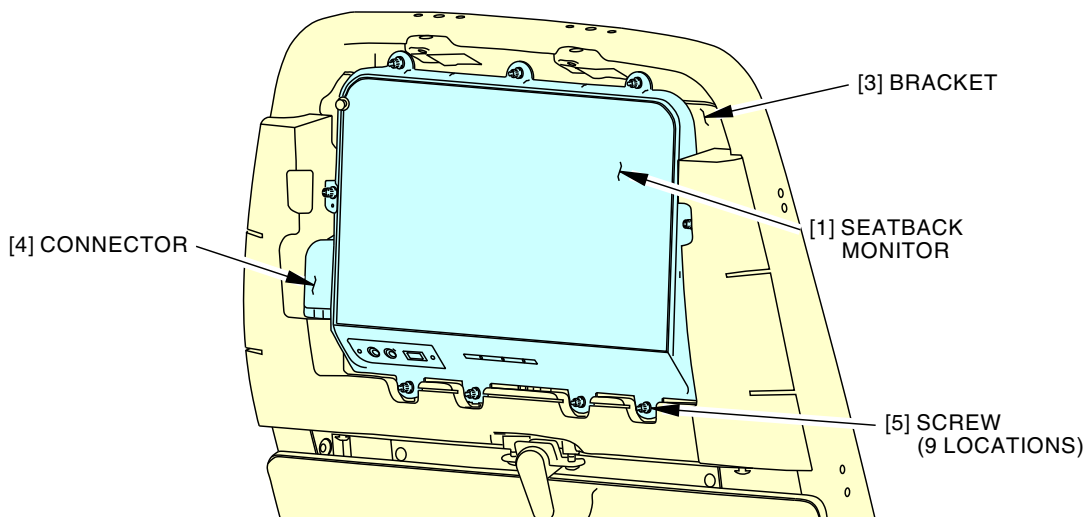
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**PASSENGER SEATS
(EXAMPLE)**



**SEATBACK MONITOR
(SEAT BEZEL REMOVED)**

A

2793697 S0000636214_V1

**Seatback Monitor Installation
Figure 401/44-21-34-990-803**

EFFECTIVITY
**SIA 015-999; AIRPLANES WITH 10 INCH SMART
MONITOR**

D633AM101-SIA

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TASK 44-21-34-400-801

3. **Seatback Monitor Installation**

(Figure 401)

A. General

- (1) This task has instructions to install the seatback monitor on the passenger seat.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-730-801	Video Entertainment System - System Test (P/B 501)
44-21-00-860-801	Server Based Entertainment System Configuration Check (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Seatback Monitor Installation

SUBTASK 44-21-34-910-002



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-34-420-001

- (2) Install the seatback monitor [1]:
- (a) If necessary, install the screws [5].
 - (b) Connect the connector [4] on the seatback monitor [1].
 - (c) Carefully put the seatback monitor [1] to the bracket [3].
 - (d) Install the seat bezel [2] to the passenger seat.

E. Seat Back Monitor Installation Test

SUBTASK 44-21-34-860-002

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
A	14	C01645	SEAT POWER AFT
A	17	C01644	SEAT POWER FWD

SUBTASK 44-21-34-860-004

- (2) Do this task: Server Based Entertainment System Configuration Check, TASK 44-21-00-860-801.

EFFECTIVITY
SIA 015-999

D633AM101-SIA

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SUBTASK 44-21-34-730-002

(3) Do this task: Video Entertainment System - System Test, TASK 44-21-00-730-801.

———— **END OF TASK** ————

EFFECTIVITY
SIA 015-999

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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AIRCRAFT MAINTENANCE MANUAL

PASSENGER SERVICE UNIT (PSU) DIGITAL OVERHEAD MONITOR - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Passenger Service Unit (PSU) Digital Overhead Monitor Removal
 - (2) Passenger Service Unit (PSU) Digital Overhead Monitor Installation.
- B. The Passenger Service Unit (PSU) digital overhead monitor can be removed or installed with the monitor deployed or retracted.

TASK 44-21-36-000-801

2. Passenger Service Unit (PSU) Digital Overhead Monitor Removal

(Figure 401)

A. General

- (1) This task has instructions to remove the Passenger Service Unit (PSU) digital overhead monitor.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Removal

SUBTASK 44-21-36-860-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
D	5	C01981	VIDEO 1
D	6	C01980	VIDEO 2
D	7	C01983	VIDEO 3
D	8	C01982	VIDEO 4

SUBTASK 44-21-36-910-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. Passenger Service Unit (PSU) Digital Overhead Monitor Removal

SUBTASK 44-21-36-020-001



WARNING

RELEASE THE SAFETY LANYARD LAST BEFORE THE REMOVAL OF THE DIGITAL OVERHEAD MONITOR. DAMAGE TO THE MONITOR AND INJURIES TO PERSONNEL CAN OCCUR.

- (1) Remove the PSU digital overhead monitor [1]:

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- (a) Gently push up on the inboard spring clips [2] from the inboard bin rail.
- (b) Make sure that the inboard spring clips [2] release from the inboard bin rail.
- (c) Disconnect the J2 connector [5] and J1 connector [6] from the PSU digital overhead monitor [1].
- (d) Release the safety lanyards [4] from the PSU digital overhead monitor [1].
- (e) Release the outboard spring clip [3] from the outboard bin rail.
- (f) Make sure that the outboard spring clips [3] release from the outboard bin rail.

———— **END OF TASK** ————

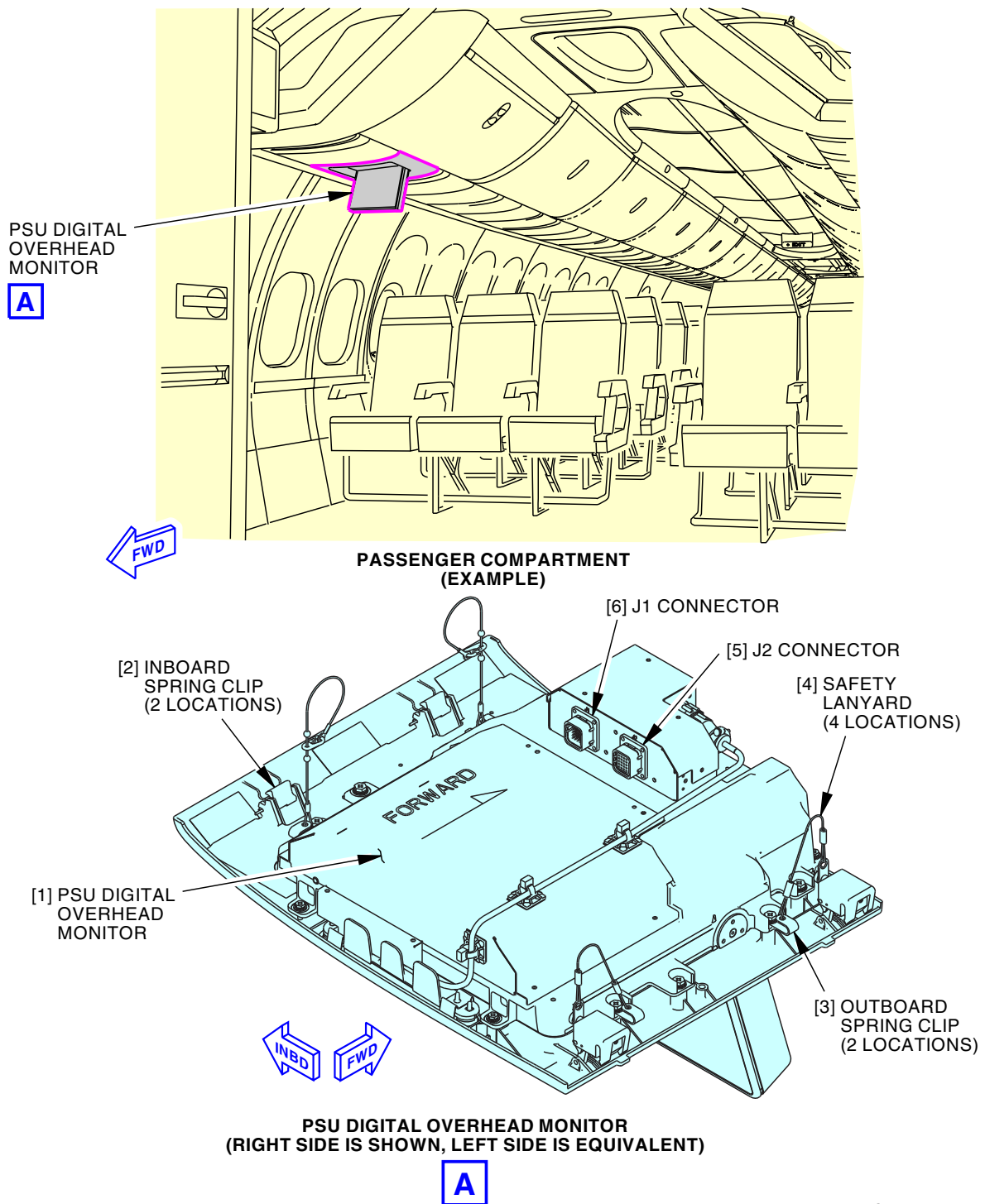
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Passenger Service Unit (PSU) Digital Overhead Monitor Installation
Figure 401/44-21-36-990-801

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TASK 44-21-36-400-801

3. **Passenger Service Unit (PSU) Digital Overhead Monitor Installation**

(Figure 401)

A. General

- (1) This task has instructions to install the Passenger Service Unit (PSU) digital overhead monitor.

NOTE: The arrow on the PSU digital overhead monitor should be pointed forward.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-730-801	Video Entertainment System - System Test (P/B 501)
44-21-00-860-801	Server Based Entertainment System Configuration Check (P/B 201)
44-21-36-710-801	Passenger Service Unit Digital Overhead Monitor - Operational Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Passenger Service Unit (PSU) Digital Overhead Monitor Installation

SUBTASK 44-21-36-910-002



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-36-420-001



BEFORE THE ELECTRICAL CONNECTORS ARE CONNECTED, ATTACH THE SAFETY LANYARD TO THE DIGITAL OVERHEAD MONITOR. DAMAGE TO THE DIGITAL OVERHEAD MONITOR AND INJURIES TO PERSONNEL CAN OCCUR.

- (2) Install the PSU digital overhead monitor [1]:
- (a) Align the outboard spring clips [3] to the outboard bin rail.
 - (b) Make sure that the outboard spring clips [3] click on the outboard bin rail.
 - (c) Connect the safety lanyards [4] to the PSU digital overhead monitor [1].
 - (d) Connect the J1 connector [6] and J2 connector [5] to the PSU digital overhead monitor [1].
 - (e) Align the inboard spring clips [2] to the inboard bin rail.
 - (f) Make sure that the inboard spring clips [2] click on the inboard bin rail.



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E. Passenger Service Unit (PSU) Digital Overhead Monitor Installation Test

SUBTASK 44-21-36-860-002

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C01981	VIDEO 1
D	6	C01980	VIDEO 2
D	7	C01983	VIDEO 3
D	8	C01982	VIDEO 4

SUBTASK 44-21-36-860-003

- (2) Do this task: Server Based Entertainment System Configuration Check, TASK 44-21-00-860-801.

SUBTASK 44-21-36-730-002

- (3) Do this task: Video Entertainment System - System Test, TASK 44-21-00-730-801.

SUBTASK 44-21-36-710-007

- (4) Do this task: Passenger Service Unit Digital Overhead Monitor - Operational Test, TASK 44-21-36-710-801.

———— **END OF TASK** ————

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PASSENGER SERVICE UNIT (PSU) DIGITAL OVERHEAD MONITOR - ADJUSTMENT/TEST

1. General

A. This procedure has the following task(s):

- (1) Passenger Service Unit Digital Overhead Monitor - Operational Test.

TASK 44-21-36-710-801

2. Passenger Service Unit Digital Overhead Monitor - Operational Test

A. **General**

- (1) This task has instructions to operationally test the Passenger Service Unit (PSU) Digital Overhead Monitors (DOM).

B. **Prepare for the Test**

SUBTASK 44-21-36-850-001

- (1) Energize the IFE system as follows:

- (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

C. **Video Monitor Power On Test**

SUBTASK 44-21-36-710-004

- (1) On the CABIN MAINTENANCE menu, select System Maint button.

- (a) On the System Maint screen, select VIDEO PA button.

- (b) On the VIDEO PA screen, select Video Test File from the SELECT SOURCE list.

- (c) On the VIDEO PA screen, select ASSIGN VPA button.

- 1) Make sure that all video monitors deploy.

NOTE: The video monitors will deploy in 1 minute.

- (d) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	8	C01982	VIDEO 4

- 1) Make sure that the video monitors are OFF.

- (e) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	7	C01983	VIDEO 3

- 1) Make sure that the video monitors are OFF.

- (f) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	6	C01980	VIDEO 2

- 1) Make sure that the video monitors are OFF.



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- (g) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C01981	VIDEO 1

- 1) Make sure that the video monitors are OFF.

SUBTASK 44-21-36-850-003

- (2) On the VIDEO PA screen, select STOP VPA from the menu.

SUBTASK 44-21-36-860-005

- (3) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	5	C01981	VIDEO 1
D	6	C01980	VIDEO 2
D	7	C01983	VIDEO 3
D	8	C01982	VIDEO 4

SUBTASK 44-21-36-850-004

- (4) On the SELECT SOURCE menu, select any Video Test File.

- (a) On the SELECT SOURCE menu, select ASSIGN VPA.

- 1) Make sure that all overhead monitors deploy.

SUBTASK 44-21-36-850-005

- (5) On the VIDEO PA screen, select the STOP VPA from the menu.

- (a) Make sure that all video monitors retract.

NOTE: All media shall stop from all zones.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-36-850-024

- (1) Set the overhead panel P5-13, IFE/PASS SEAT switch to OFF.

———— **END OF TASK** ————

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EXTERNAL COMMUNICATION SYSTEM - MAINTENANCE PRACTICES

1. General

- A. This procedure has these tasks:
- (1) Cell Modem Deactivation
 - (2) Cell Modem Activation
 - (3) Cell Modem Status
 - (4) Cell Modem SIM Card Replacement.

TASK 44-30-00-040-801

2. Cell Modem Deactivation

A. **General**

- (1) This task has instructions to deactivate the cell modem.

B. **Cell Modem Deactivation**

SUBTASK 44-30-00-040-002

- (1) Deactivate the cell modem.
 - (a) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	9	C01945	IFE AC

SUBTASK 44-30-00-210-001

- (2) Make sure that the overhead panel P5-15, IFE./PASS SEAT switch is OFF.

————— **END OF TASK** —————

TASK 44-30-00-440-801

3. Cell Modem Activation

A. **General**

- (1) This task has instructions to activate the cell modem.

B. **Cell Modem Activation**

SUBTASK 44-30-00-440-002

- (1) Activate the cell modem.
 - (a) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	9	C01945	IFE AC

SUBTASK 44-30-00-210-002

- (2) Make sure that the overhead panel P5-15, IFE./PASS SEAT switch is ON.

SUBTASK 44-30-00-210-003

- (3) Make sure that a SIM card is installed.

————— **END OF TASK** —————

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TASK 44-30-00-860-801

4. Cell Modem Status

A. General

- (1) This task has instructions to check the cell modem status.

B. Cell Modem Status

SUBTASK 44-30-00-840-001

- (1) To supply power to the In-Flight Entertainment (IFE) system, do these steps:
 - (a) Set the overhead panel, P5-13 IFE/PASS SEAT switch to ON.
 - (b) On the control panel, set the GCS PWR switch to ON.

SUBTASK 44-30-00-860-001

- (2) To view the cell modem status, do these steps:
 - (a) From the CABIN MAINTENANCE screen, select SYSTEM MAINT from the menu.
 - (b) On the SYSTEM MAINT menu, select CELL MODEM MAINTENANCE screen.
 - (c) On the CELL MODEM MAINTENANCE screen, make sure that the status is shown:
 - 1) Make sure that the active modem is shown.
 - 2) Make sure that the modem power Status and Mode is shown.
 - 3) Make sure that the cell site information is shown.

SUBTASK 44-30-00-840-002

- (3) To remove power from the IFE system, do these steps:
 - (a) On the control panel, set the GCS PWR switch to OFF.
 - (b) Set the overhead panel, P5-13 IFE/PASS SEAT switch to OFF.

————— END OF TASK —————

TASK 44-30-00-960-801

5. Cell Modem SIM Card Replacement

(Figure 201)

A. General

- (1) This task has instructions to replace the Subscriber Identification Module (SIM) card from a cell modem.

B. References

Reference	Title
25-21-45-000-801	Main Ceiling Panel - Removal (P/B 401)
25-21-45-400-801	Main Ceiling Panel - Installation (P/B 401)
44-30-00-710-801	Cell Modem Operational Test (P/B 501)
44-30-00-710-802	Cell Modem Connectivity Test (P/B 501)

C. Cell Modem SIM Card Replacement

SUBTASK 44-30-00-010-001

- (1) To get access to the cell modem, remove the applicable ceiling panel (TASK 25-21-45-000-801).

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SUBTASK 44-30-00-210-004

- (2) Remove screws and cover to access SIM card slots.

NOTE: SIM card slot cover is in the opposite side of where the cell modem connectors are located.

- (3) Remove and replace SIM card.

- (4) Install cover and screws.

SUBTASK 44-30-00-410-001

- (5) Install the applicable ceiling panel (TASK 25-21-45-400-801).

SUBTASK 44-30-00-710-004

- (6) Do this task: Cell Modem Operational Test, TASK 44-30-00-710-801.

SUBTASK 44-30-00-710-005

- (7) Do this task: Cell Modem Connectivity Test, TASK 44-30-00-710-802.

———— **END OF TASK** ————

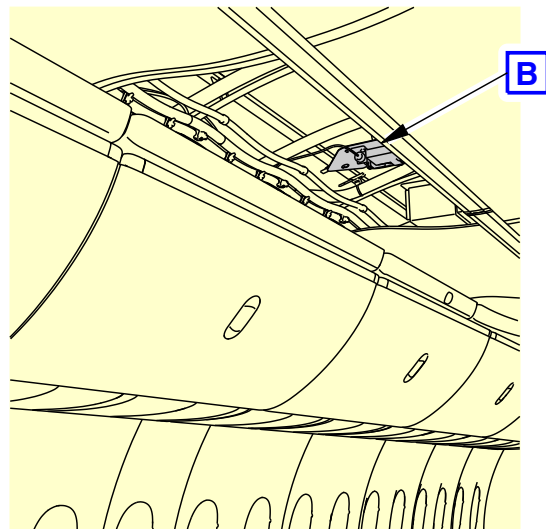
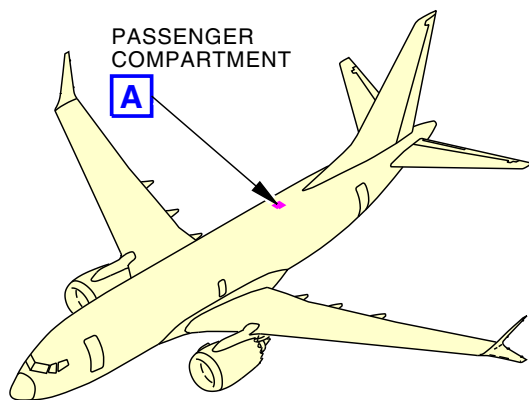
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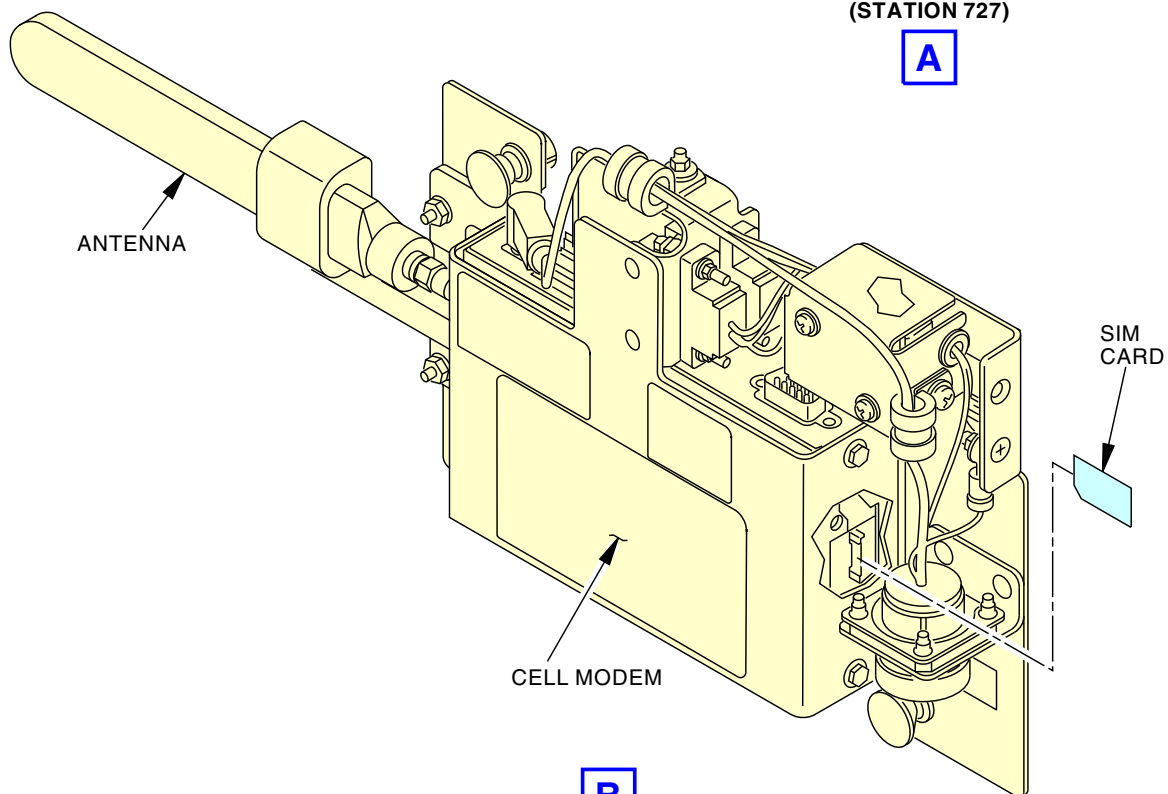
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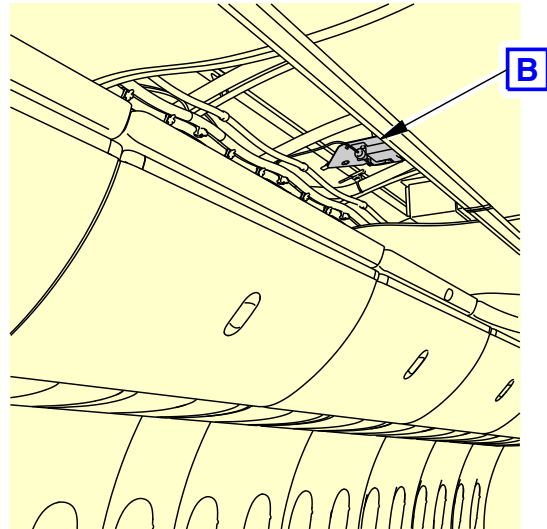
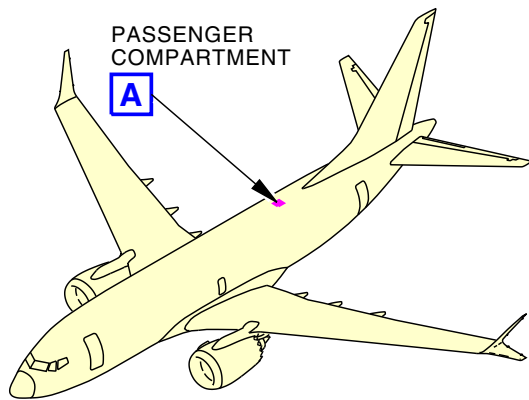
PASSENGER COMPARTMENT
(STATION 727)



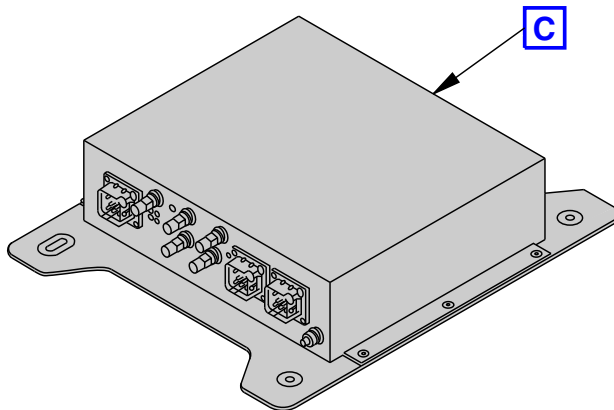
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Cell Modem SIM Card Replacement
Figure 201/44-30-00-990-801 (Sheet 1 of 2)

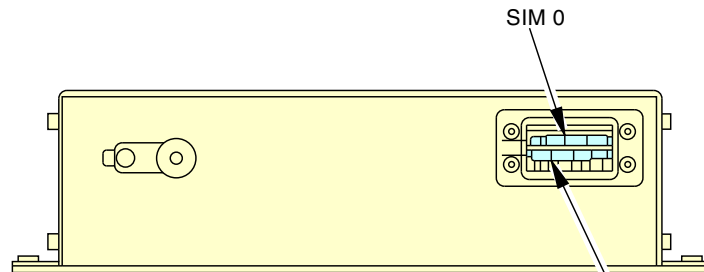
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**PASSENGER COMPARTMENT
(STATION 727)**



B



C

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**Cell Modem SIM Card Replacement
Figure 201/44-30-00-990-801 (Sheet 2 of 2)**

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CELL MODEM - ADJUSTMENT/TEST

1. General

- A. This procedure has these tasks:
- (1) Cell Modem Operational Test
 - (2) Cell Modem Connectivity Test.

TASK 44-30-00-710-801

2. Cell Modem Operational Test

A. General

- (1) This task has instructions to do a operational test of the cell modem.

B. Cell Modem Operational Test

SUBTASK 44-30-00-710-001

- (1) Do the following steps to ensure the Cell Modem is operational:
 - (a) Go to the CABIN MAINTENANCE screen at the Crew Panel.
 - (b) Push the SYSTEM MAINTENANCE button.
 - (c) Push the CELL MODEM MAINTENANCE button.
 - (d) Make sure that the modem status is ON and the Modem Mode is AUTO on the Modem Power section.
 - (e) Push the CELL MODEM TEST button.
 - (f) Push the START CELL MODEM TEST button.

NOTE: A pop-up message will be shown "Please wait. Modem Test is being Performed".
 - (g) Make sure that a pop-up message displaying "SUCCESS" appears once the test is complete.
 - (h) Push the OK button.
 - (i) Make sure the screen reads PASS for the Start Cell Modem Test.
 - (j) Select the HOME icon to return to the CABIN MAINTENANCE screen.

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SUBTASK 44-30-00-710-006

- (2) Do the steps to operationally check the enhanced cell modem:
 - (a) From the CABIN MAINTENANCE screen, select the System Maint item.
 - (b) From the System Maint item, select Cell Modem Maintenance item.
 - (c) From the Cell Modem Maintenance item, make sure that the Modem Status tab is shown.
 - 1) Make sure that the Power State is ON.
 - (d) From the Cell Modem Maintenance item, select the Cellular tab is shown.
 - 1) Make sure that the Cell Modem Enable button is shown.
 - (e) From the Cell Modem Maintenance item, select the Wi-Fi tab.
 - 1) Make sure that the Wi-Fi Mode ENABLE button is shown.
 - (f) From the Cell Modem Maintenance item, select the Discrete status tab.
 - 1) Make sure that each Enable and Discrete item is shown Enabled.
 - Enable 2a (Weight on Wheels Active High - main landing gear compressed)

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- Enable 2b (Weight on Wheels Active Low - nose landing gear compressed)

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————— END OF TASK —————

TASK 44-30-00-710-802

3. Cell Modem Connectivity Test

A. General

- (1) This task has instructions to do a connectivity test for a cell modem.

B. References

Reference	Title
36-00-00-860-806	Remove Pressure from the Pneumatic System (P/B 201)
46-13-02-710-801	Onboard Maintenance Function Ground Test (P/B 201)

C. Cell Modem Connectivity Test

SUBTASK 44-30-00-710-003

- (1) Do the following steps for the cell modem connectivity test:
- (a) Push the CONNECTIVITY TEST button.
- NOTE: The pop-up message "Please wait. Connectivity Test is being performed" is displayed.
- 1) Make sure that the CONNECTIVITY TEST shows PASS.

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- (b) Push the ENABLE 1 TEST button.
- NOTE: The pop-up message "Please wait. Enable 1 Test is being performed" is displayed.
- 1) Make sure that the ENABLE TEST 1 shows PASS.

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- (c) Do the ENABLE 1 TEST, do these steps:
- 1) Do these steps to simulate that the engines are in operation:
- NOTE: These steps change the condition of the engine running relays to the engine in operation mode.
- a) Make sure that there is no pneumatic power to the engine starters.
- <1> If it is necessary, do this task: Remove Pressure from the Pneumatic System, TASK 36-00-00-860-806.
- b) Make sure that the two thrust levers, on the control stand, are in the IDLE position.
- c) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-2

Row	Col	Number	Name
A	1	C00458	ENGINE 1 IGNITION RIGHT
A	3	C00153	ENGINE 1 IGNITION LEFT

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CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	1	C00523	HEATERS CAPT PITOT
D	5	C00525	HEATERS F/O PITOT
D	6	C00524	HEATERS AUX PITOT

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	13	C00120	WEATHER RADAR RT

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C00459	ENGINE 2 IGNITION RIGHT
D	6	C00151	ENGINE 2 IGNITION LEFT

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	3	C00360	FUEL SPAR VALVE ENG 2
B	4	C00359	FUEL SPAR VALVE ENG 1

- d) Make sure that the two engine start switches, on the P5 forward panel, are in the OFF position.
 - e) Put the two engine start levers, on the control stand, to the IDLE position for a minimum of 5 minutes.
- 2) Select System Maint.
 - 3) Select Cell Modem Maintenance.
 - 4) Select Modem Status tab.
 - 5) Make sure that the Power Mode is AUTO, Power State is ON, and Modem Enable is TRUE.
 - 6) Select Cellular tab.
 - 7) Make sure that SIM 1 Status has LINK UP.
NOTE: Ignore the numbers.
 - 8) Select Discrete Status page from CELL MODEM screen.
 - 9) Close and lock all doors.
 - 10) Make sure that the airplane is in Ground Mode.
 - 11) Make sure that the Enable 1 discrete status indicates as Enabled on the Discrete Status screen.

NOTE: It may take up to 2 to 5 minutes before the change of state is reported on the Crew Terminal (CT).

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MAKE SURE THAT YOU OPEN THE CIRCUIT BREAKER FOR THE WEATHER RADAR SYSTEM. THE FORWARD MOVEMENT OF A THRUST LEVER CAN CAUSE THE AUTOMATIC OPERATION OF THE SYSTEM. THE OPERATION OF THIS SYSTEM CAN CAUSE INJURY TO PERSONS AND DAMAGE TO EQUIPMENT IN THE AREA OF THE NOSE RADOME.

- 12) Move both thrust levers to fully ADVANCED position.
- 13) Make sure that the Enable 1 discrete status indicates as Disabled on the Discrete Status screen.
NOTE: It may take up to 2 to 5 minutes before the change of state is reported on the CT.
- 14) Move both thrust levers to IDLE position.
- 15) Make sure that the Enable 1 discrete status indicates as Enabled on the Discrete Status screen.
NOTE: It may take up to 2 to 5 minutes before the change of state is reported on the CT.
- 16) If it is necessary, open the doors.
NOTE: At this point, opening entry door and service doors will not affect the remaining steps.
- 17) Put the two engine start levers to the CUTOFF position.
- 18) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00458	ENGINE 1 IGNITION RIGHT
A	3	C00153	ENGINE 1 IGNITION LEFT

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
C	1	C00523	HEATERS CAPT PITOT
D	5	C00525	HEATERS F/O PITOT
D	6	C00524	HEATERS AUX PITOT

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	13	C00120	WEATHER RADAR RT

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C00459	ENGINE 2 IGNITION RIGHT
D	6	C00151	ENGINE 2 IGNITION LEFT

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SIA 015-999 (Continued)

F/O Electrical System Panel, P6-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	3	C00360	FUEL SPAR VALVE ENG 2
B	4	C00359	FUEL SPAR VALVE ENG 1

SIA ALL

- (d) Push the ENABLE 2 TEST button.

NOTE: The pop-up message "Please wait. Enable Test 2 screen" is displayed. Wait a few seconds until test prerequisite.

- 1) Make sure that the Cell Modem (CM) is in AUTO mode.

- (e) On the P61-5 maintenance/BITE control panel, set the GND TESTS switch to ENABLE.

- (f) On the P9-82 multi-function display panel, select SYS button (TASK 46-13-02-710-801).

- 1) Select MAINT.
- 2) Select ONBD MAINT.
- 3) Select OTHER FUNCTIONS.
- 4) Select SPECIAL FUNCTIONS.
- 5) Select ATA System 32: PSEU.
- 6) Select CONTINUE.

- (g) On the P9-82 multi-function display panel, select AIR/GND OVERRIDE.

- (h) On the P9-82 multi-function display panel, select CONTINUE.

- (i) On the P9-82 multi-function display panel, select START FUNCTION.

- (j) On the P9-82 multi-function display panel, select SYS 1 to IN AIR.

- (k) On the P9-82 multi-function display panel, select CONTINUE.

- 1) Make sure that the AIR/GND OVERRIDE is ACTIVE and SYS 1 IN AIR mode.

- (l) On the CT, select the OK button.

NOTE: The pop-up message "Please restore the aircraft to the ON-GROUND condition" is displayed.

- 1) Make sure that the CM is OFF.

- (m) On the P9-82 multi-function display panel, select RESET OVERRIDE.

- (n) On the P9-82 multi-function display panel, select CONTINUE.

- (o) On the P9-82 multi-function display panel, select STOP FUNCTION.

- (p) On the P61-5 maintenance/BITE control panel, set the GND TESTS switch to NORM.

- (q) On the CT, select the OK button.

- 1) Make sure that the CM is ON.

NOTE: The pop-up message "Cell Modem Set Mode to Auto" is displayed.

- (r) Select the HOME icon to return to the CABIN MAINTENANCE screen.

————— END OF TASK —————

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CELL MODEM - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

- (1) Cell Modem Removal
- (2) Cell Modem Installation.

TASK 44-30-01-000-801

2. Cell Modem Removal

(Figure 401 or Figure 402)

A. General

- (1) This task has instructions to remove the cell modem in the overhead crown area.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
25-21-45-000-801	Main Ceiling Panel - Removal (P/B 401)

C. Tools/Equipment

Reference	Description
STD-154	Dust Cap - Electrical Connector, Plastic

D. Location Zones

Zone	Area
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

E. Prepare for the Removal

SUBTASK 44-30-01-860-003

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	10	C01952	IFE DC

SUBTASK 44-30-01-010-001

- (2) To get access to the cell modem [1], remove the applicable ceiling panel (TASK 25-21-45-000-801).

SUBTASK 44-30-01-910-001



CAUTION

DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

- (3) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

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F. Cell Modem Removal

SIA 001-014

SUBTASK 44-30-01-020-001

- (1) Remove the cell modem [1] from the mounting tray.

NOTE: The use of cellular telephones while the aircraft is airborne is prohibited by the FCC and other rules. The use of cellular telephones while the aircraft is on the ground is subject to FCC and other regulations.



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (a) Disconnect the electrical connector [3] from the cell modem [1].
- 1) Make sure to install a electrical connector dust cap, STD-154, to electrical connector [3].
- (b) Release the spring latches on the spring latched connectors.
- (c) Loosen the captive fasteners [2] from the cell modem [1].
- (d) If it is necessary, remove and retain the termination plug.

SIA 015-999

SUBTASK 44-30-01-020-006

- (2) Remove the enhanced cell modem [1]:

NOTE: The use of cellular telephones while the aircraft is airborne is prohibited by the FCC and other rules. The use of cellular telephones while the aircraft is on the ground is subject to FCC and other regulations.



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (a) Disconnect the J1 connector [4], J2 connector [5], J3 connector [6], J4 connector [7], J5 connector [8], J6 connector [9], J7 connector [10], and J8 connector [11] from the enhanced cell modem [1].
- (b) Remove the screws [2] and washers [3] from the enhanced cell modem [1].
- (c) Carefully, pull the enhanced cell modem [1] from the mounting tray.
- (3) If necessary, remove the cellular antenna [12]:
- (a) Disconnect the 90 degree connectors [16] from the cellular antenna [12].
- (b) Loosen the captive screws [13].
- (c) Carefully, remove the cellular antenna [12] from the mounting tray.
- (4) If necessary, remove the WiFi antenna [14]:
- (a) Disconnect the straight connectors [17] from the WiFi antenna [14].
- (b) Loosen the captive screws [15].
- (c) Carefully, remove the WiFi antenna [14] from the mounting tray.

————— **END OF TASK** —————

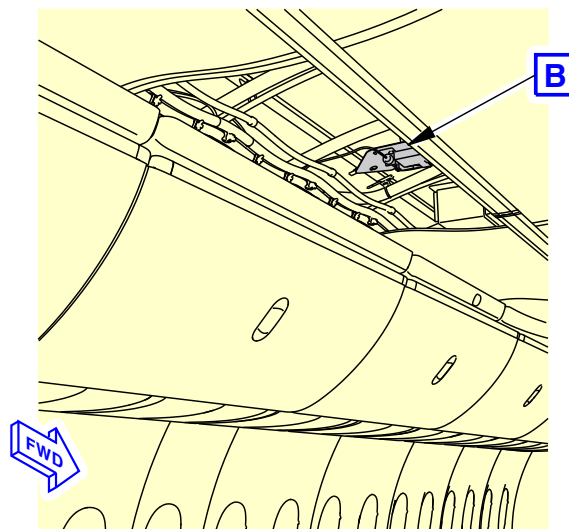
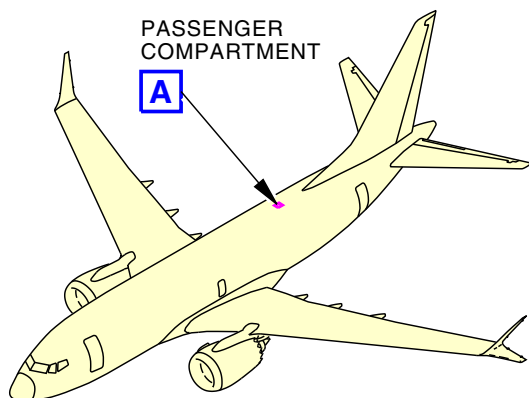
EFFECTIVITY
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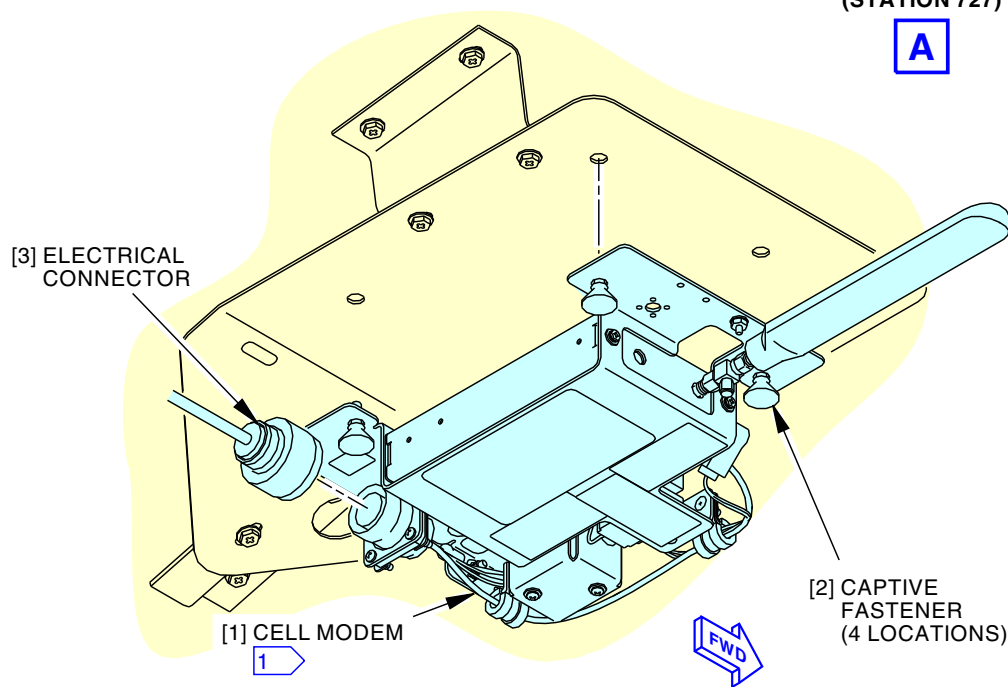
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PASSENGER COMPARTMENT
(STATION 727)



1 THE CELL MODEM CAN LOOK DIFFERENT

2545441 S0000604553_V1

Cell Modem Installation
Figure 401/44-30-01-990-801

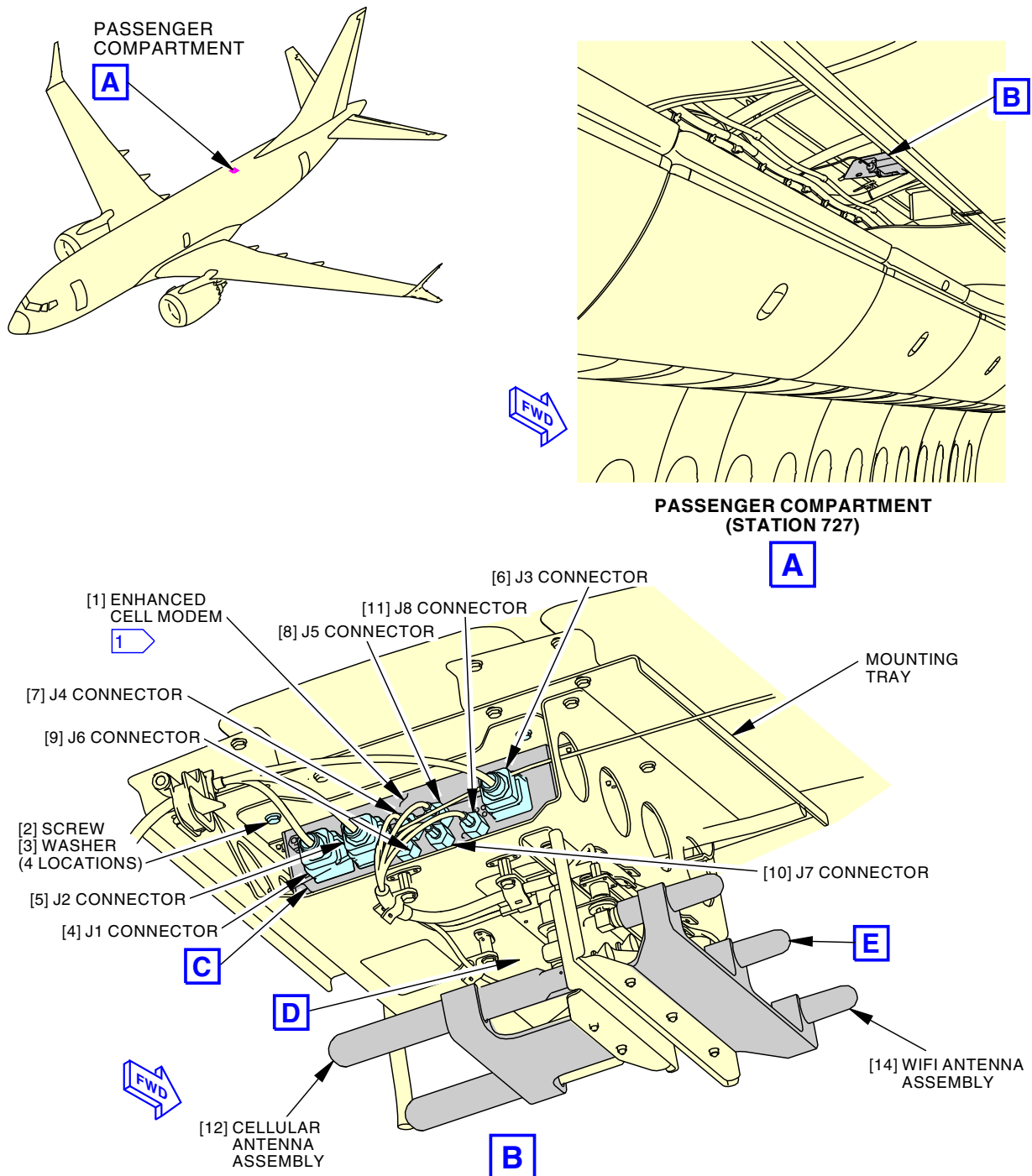
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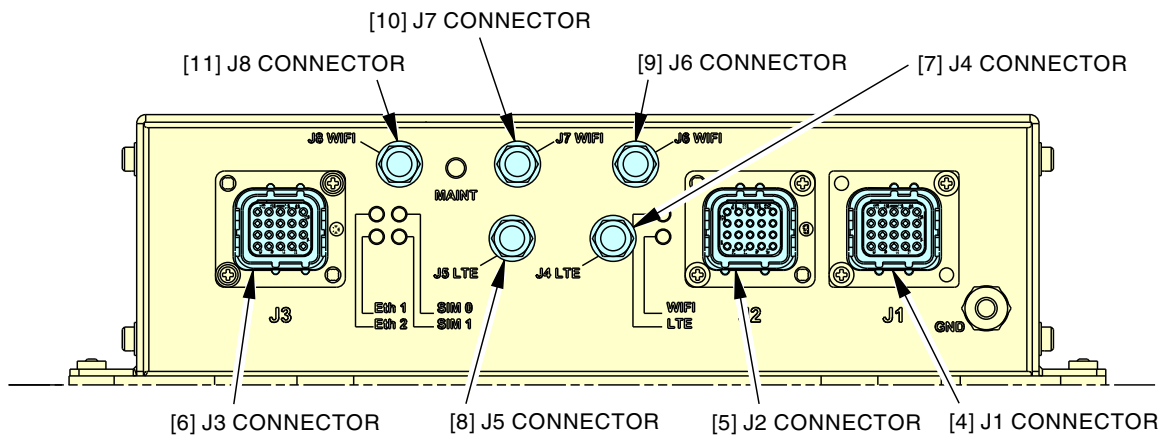


1 THE CELL MODEM CAN LOOK DIFFERENT

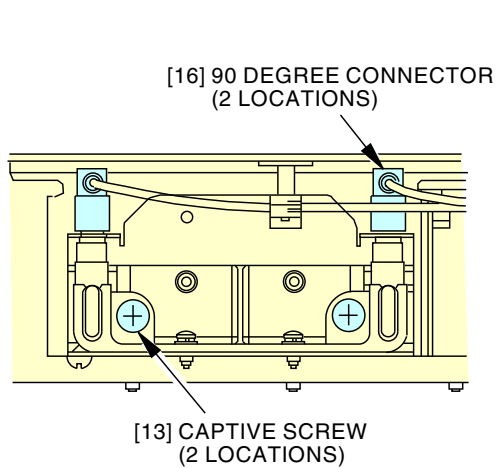
2826028 S0000654882_V2

Enhanced Cell Modem Installation
Figure 402/44-30-01-990-802 (Sheet 1 of 2)

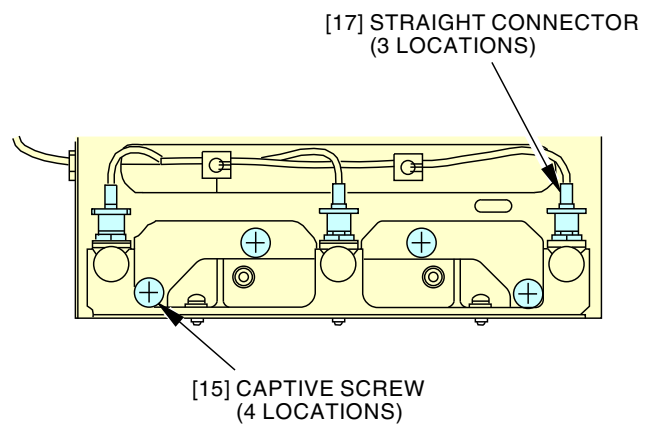
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C



D



E

2826819 S0000655219_V2

Enhanced Cell Modem Installation
Figure 402/44-30-01-990-802 (Sheet 2 of 2)

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TASK 44-30-01-400-801

3. **Cell Modem Installation**
(Figure 401 or Figure 402)

A. **General**

- (1) This task has instructions to install the cell modem in the overhead crown area.

B. **References**

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
25-21-45-400-801	Main Ceiling Panel - Installation (P/B 401)
44-30-00-710-801	Cell Modem Operational Test (P/B 501)
44-30-00-710-802	Cell Modem Connectivity Test (P/B 501)
44-30-00-860-801	Cell Modem Status (P/B 201)
44-30-00-960-801	Cell Modem SIM Card Replacement (P/B 201)

C. **Tools/Equipment**

Reference	Description
STD-154	Dust Cap - Electrical Connector, Plastic

D. **Location Zones**

Zone	Area
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

E. **Cell Modem Installation**

SUBTASK 44-30-01-910-002



DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SIA 001-014

SUBTASK 44-30-01-420-001

- (2) Install the cell modem [1]:

- (a) Put the cell modem [1] on the mounting tray.

NOTE: The use of cellular telephones while the aircraft is airborne is prohibited by the FCC and other rules. The use of cellular telephones while the aircraft is on the ground is subject to the FCC and other regulations.

- (b) Tighten the captive fasteners [2] for the cell modem [1].
(c) If it is necessary, install the termination plug.



MAKE SURE THAT THE SPRING LATCHES HOLD THE CONNECTORS IN THE FULLY ENGAGED POSITION. IF THE CONNECTORS MOVE, ELECTRICAL ARCING CAN OCCUR. THIS CAN CAUSE DAMAGE TO EQUIPMENT.

- (d) Attach the spring latches to the spring latched connector.
(e) Connect the electrical connector [3] to the cell modem [1].

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SIA 001-014 (Continued)

- 1) Make sure that the electrical connector dust cap, STD-154, is removed from electrical connector [3].

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SUBTASK 44-30-01-420-006



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (3) Install the enhanced cell modem [1]:
 - (a) Carefully, put the enhanced cell modem [1] on the mounting tray.
 - (b) Install the screws [2] and washers [3] to the enhanced cell modem [1].
 - (c) Connect the J1 connector [4], J2 connector [5], J3 connector [6], J4 connector [7], J5 connector [8], J6 connector [9], J7 connector [10], and J8 connector [11] to the enhanced cell modem [1].
 - (d) Tighten the J4 connector [7], J5 connector [8], J6 connector [9], J7 connector [10], and J8 connector [11] to 8 in-lb (1 N·m) to 10 in-lb (1 N·m).
- (4) If removed, install the cellular antenna [12]:
 - (a) Carefully, put the cellular antenna [12] on the mounting tray.
 - (b) Tighten the captive screws [13].
 - (c) Connect the 90 degree connectors [16] to the cellular antenna [12].
- (5) If removed, install the WiFi antenna [14]:
 - (a) Carefully, put the WiFi antenna [14] on the mounting tray.
 - (b) Tighten the captive screws [15].
 - (c) Connect the straight connectors [17] to the WiFi antenna [14].

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F. Cell Modem Installation Test

SUBTASK 44-30-01-860-004

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	10	C01952	IFE DC

SUBTASK 44-30-01-210-001

- (2) Make sure that a SIM card is installed (TASK 44-30-00-960-801).

SUBTASK 44-30-01-860-005

- (3) Do this task: Cell Modem Status, TASK 44-30-00-860-801.

SUBTASK 44-30-01-710-001

- (4) Do this task: Cell Modem Operational Test, TASK 44-30-00-710-801.

SUBTASK 44-30-01-710-002

- (5) Do this task: Cell Modem Connectivity Test, TASK 44-30-00-710-802.

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G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-30-01-410-001

- (1) Install the applicable ceiling panel (TASK 25-21-45-400-801).

———— **END OF TASK** ————

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BROADBAND COMMUNICATION SYSTEM - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

- (1) Broadband Communication System Deactivation
- (2) Broadband Communication System Activation

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- (3) Initialize the Global Communication Suite.
- (4) Log Out of the Global Communication Suite.
- (5) Set Maintenance Aircraft Information.
- (6) System Configuration Check.
- (7) System Software Load.
- (8) Load Satellite Coverage or Portal Content.
- (9) Load Media and Content.

SIA ALL

TASK 44-35-00-040-801

2. Broadband Communication System Deactivation

A. General

- (1) This task has instructions to deactivate the broadband communication system.

B. Broadband Communication System Deactivation

SUBTASK 44-35-00-040-001

- (1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
SIA 015-999			
A	8	C04073	BROADBAND 1
A	9	C04074	BROADBAND 2

F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
SIA ALL			
D	12	C04075	CWAP/SERVER
D	13	C04076	BROADBAND/WIFI CONTROL

SUBTASK 44-35-00-480-001

- (2) Make sure that the overhead panel P5-13, IFE/PASS SEAT switch is OFF.

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SUBTASK 44-35-00-480-002

- (3) Make sure that the overhead panel P5-99, BROADBAND CONTROL PANEL switch is OFF.

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————— **END OF TASK** —————

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TASK 44-35-00-440-801

3. Broadband Communication System Activation

(Figure 201)

A. General

- (1) This task has instructions to activate the broadband communication system.

B. Broadband Communication System Activation

SUBTASK 44-35-00-440-001

- (1) Remove the safety tags and close these circuit breakers:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
SIA 015-999			
A	8	C04073	BROADBAND 1
A	9	C04074	BROADBAND 2

F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
SIA ALL			
D	12	C04075	CWAP/SERVER
D	13	C04076	BROADBAND/WIFI CONTROL

SUBTASK 44-35-00-080-001

- (2) Energize the broadband system as follows:
- (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

SIA 001-014



MAKE SURE THAT MAINTENANCE PERSONNEL STAY A MINIMUM OF 36 FEET (11 METERS) FROM THE TOP ANTENNA WHILE IT TRANSMITS. MAKE SURE THAT OTHER PERSONS STAY A MINIMUM OF 75.5 FEET (23 METERS) FROM THE ANTENNA. RF ENERGY CAN CAUSE INJURIES TO PERSONNEL.

SIA 015-999



MAKE SURE THAT PERSONNEL STAY A MINIMUM OF 15 FEET (5 METERS) FROM THE TOP-MOUNTED ANTENNA WHILE IT TRANSMITS. IF YOU DO NOT OBEY, THE RADIO FREQUENCY (RF) ENERGY CAN CAUSE INJURIES TO PERSONNEL.

- (b) Set the overhead panel P5-99, BROADBAND CONTROL PANEL switch to ON.

SIA ALL

- (c) Make sure that the Forward Attendant Control Panel (ACP), Wi-Fi power is set to ON.

————— END OF TASK —————

EFFECTIVITY
SIA ALL

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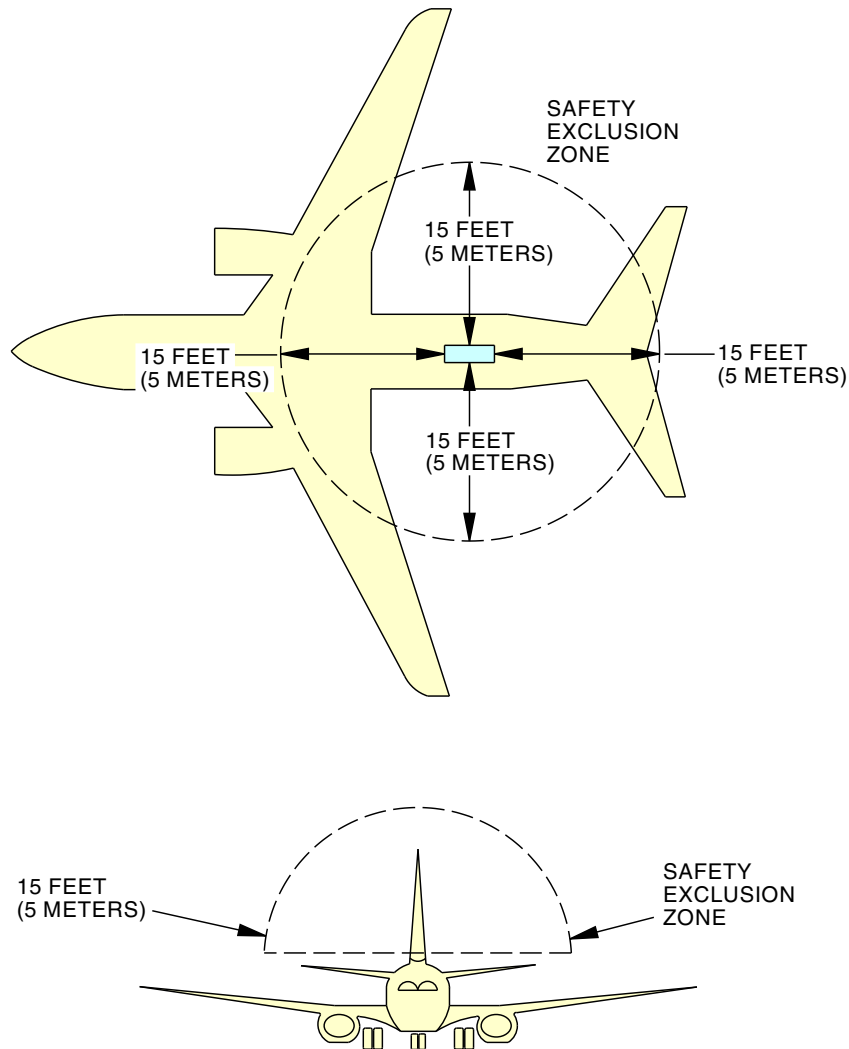
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RF Safety Exclusion Zone
Figure 201/44-35-00-990-804 (Sheet 1 of 2)

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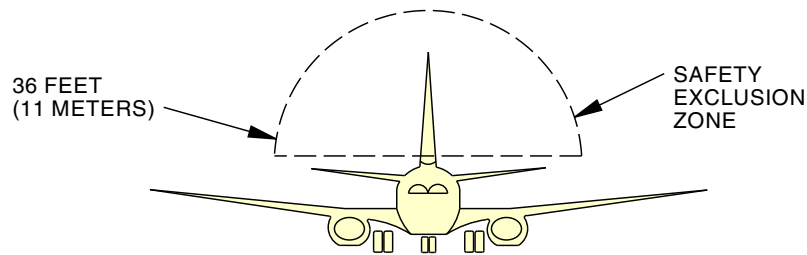
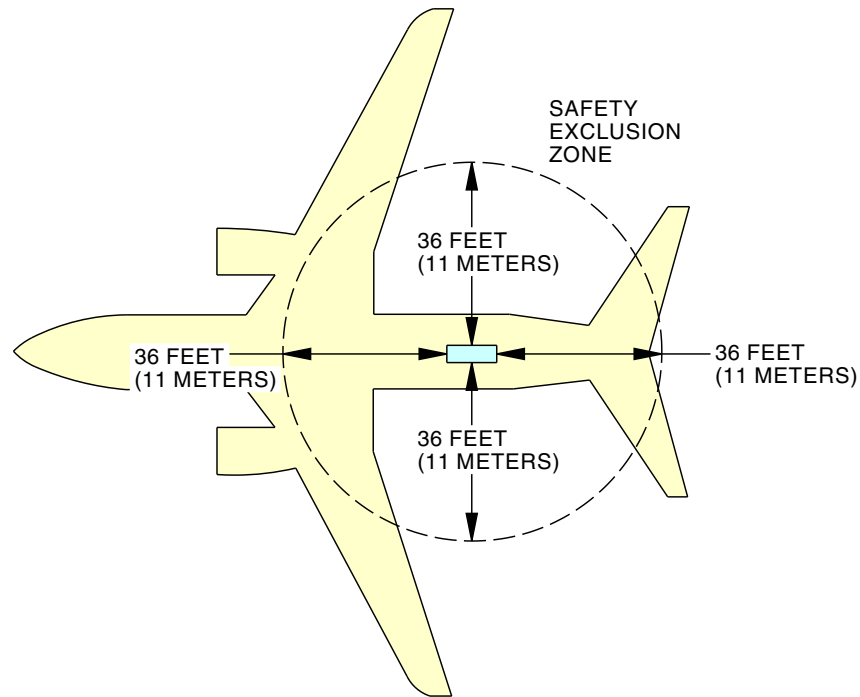
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3044879 S0000811975_V1

RF Safety Exclusion Zone
Figure 201/44-35-00-990-804 (Sheet 2 of 2)

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TASK 44-35-00-860-802

4. Initialize the Global Communication Suite

A. General

- (1) This task has instructions to initialize the Global Communication Suite (GCS).

B. Initialize the Global Communication Suite

SUBTASK 44-35-00-850-010

- (1) Set the overhead panel P5-13, IFE/PASS SEAT, switch to ON.

SUBTASK 44-35-00-850-011

- (2) On the Forward Attendant Control Panel (ACP), push the PASSENGER SERVICES button.

NOTE: Wait approximately 8-10 minutes for the crew terminal to boot-up.

- (a) Make sure that the CABIN MAINTENANCE screen is shown on the Crew Terminal (CT).
(b) On the CABIN MAINTENANCE screen, set the GCS PWR switch to ON.

SUBTASK 44-35-00-850-012

- (3) On the MAIN MENU screen, push the MAINTENANCE button
(a) On the MAINTENANCE screen, push the LOGIN button.
(b) On the LOGIN screen, push the VIRTUAL KEYBOARD button.
1) Make sure to enter the applicable passcode on the VIRTUAL KEYBOARD.
2) Push ENTER on the VIRTUAL KEYBOARD.

———— **END OF TASK** ————

TASK 44-35-00-860-803

5. Log Out of the Global Communication Suite

A. General

- (1) This task has instructions to log out of the Global Communication Suite (GCS).

B. Log Out of the Global Communication Suite

SUBTASK 44-35-00-850-013

- (1) On the CABIN MAINTENANCE screen, select the X button in the upper right corner of the screen.
(a) Make sure that the Cabin Crew MAIN MENU screen is shown.
(b) Set the GCS PWR switch to OFF.

SUBTASK 44-35-00-850-014

- (2) Set the overhead panel P5-13, IFE/PASS SEAT, switch to OFF.

———— **END OF TASK** ————

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SIA ALL

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SIA 015-999 (Continued)

TASK 44-35-00-860-804

6. Set Maintenance Aircraft Information

A. General

- (1) This task has instructions to set the maintenance aircraft information from the Crew Terminal (CT).
 - (a) The maintenance aircraft information set is the time, date, and aircraft registration information.

B. Set Maintenance Aircraft Information

SUBTASK 44-35-00-850-023

- (1) Do this task: Initialize the Global Communication Suite, TASK 44-35-00-860-802.

SUBTASK 44-35-00-850-024

- (2) On the CABIN MAINTENANCE screen, open the System Status folder.
 - (a) From the SYSTEM STATUS folder, select the Maint Aircraft Information.
 - 1) Make sure that the MAINT AIRCRAFT INFORMATION is shown.
 - (b) From the MAINT AIRCRAFT INFORMATION screen, select the Time text box in the Date/Time box.
 - 1) Make sure that the CHANGE SYSTEM TIME pop-up window is shown.
 - (c) From the CHANGE SYSTEM TIME pop-up window, set the Hour, Minute, and Seconds with the Up and Down arrow button.
 - 1) Make sure to Select the Save button.
 - 2) Make sure that the CHANGE SYSTEM TIME pop-up window is closed.
 - (d) From the MAINT AIRCRAFT INFORMATION screen, select the Date text box in the Date/Time box.
 - 1) Make sure that the CHANGE SYSTEM DATE pop-up window is shown.
 - (e) From the CHANGE SYSTEM DATE pop-up window, set the Month, Year, and Date with the Up and Down arrow button.
 - 1) Make sure to Select the Ok button.
 - 2) Make sure that the CHANGE SYSTEM DATE pop-up window is closed.
 - (f) From the MAINT AIRCRAFT INFORMATION screen, select the AC Tail # text box in the Aircraft Info box.
 - 1) Make sure that the AIRCRAFT INFORMATION pop-up window is shown.
 - (g) From the AIRCRAFT INFORMATION pop-up window, enter the aircraft registration number.
 - 1) Make to Select the Ok button.
 - 2) Make sure that the AIRCRAFT INFORMATION pop-up window is closed.
 - (h) From the MAINT AIRCRAFT INFORMATION, select the Navigation icon.

SUBTASK 44-35-00-850-025

- (3) Do this task: Log Out of the Global Communication Suite, TASK 44-35-00-860-803.

———— **END OF TASK** ————

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SIA 015-999 (Continued)

TASK 44-35-00-860-805

7. System Configuration Check

A. General

- (1) This task has instructions to do a Exconnect system configuration check from the Crew Terminal (CT):
 - (a) Configuration Check
 - (b) Content Status Check
 - (c) Content Report Check
 - (d) Media Report Check
 - (e) Configuration Report
 - (f) System Software Load

B. Prepare to Check

SUBTASK 44-35-00-850-015

- (1) Do this task: Initialize the Global Communication Suite, TASK 44-35-00-860-802.

SUBTASK 44-35-00-420-004

- (2) Install a USB storage device into the CT.

NOTE: Wait one minute for the pop-up window to be shown.

 - (a) On the pop-up window, select the OK button.
 - 1) Make sure that the pop-up window is closed.

C. Configuration Check

SUBTASK 44-35-00-850-016

- (1) On the CABIN MAINTENANCE screen, open the Configuration folder.
 - (a) From the CONFIGURATION FOLDER, select the Config Check folder.

NOTE: Selecting Review Config Check also shows the CONFIGURATION SUMMARY screen, but loads the most recent Config Check report without requesting a new one.

 - 1) Make sure that the CONFIG CHECK SUMMARY is shown.
 - (b) From the CONFIG CHECK SUMMARY screen, make sure that the Line Replaceable Unit (LRU) and software part numbers is shown on the CT.
 - (c) From the CONFIG CHECK DETAILS screen, select a specific LRU.
 - (d) Make sure that the specific details of the LRU is shown on the CONFIG CHECK DETAILS screen.

NOTE: If the LRU is not yet reporting the correct information, allow the LRU time to complete the download and boot-up process.
 - (e) On the CONFIG DETAILS screen, select the SAVE button.

NOTE: A pop-up window will show a successful Configuration Check is saved.

D. Content Status Check

SUBTASK 44-35-00-850-017

- (1) On the CABIN MAINTENANCE screen, open the Configuration folder.

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- (a) From the CONFIGURATION FOLDER, select the Content Status folder.
NOTE: The CONTENT STATUS screen shows a list of applications loaded on the File Server (FS), or Broadband Controller (BC) such as interactive portal and plugins.
 - 1) Make sure that the CONTENT STATUS screen is shown.
- (b) From the CONTENT STATUS screen.
 - 1) Make sure that the correct software part numbers and versions are reported.
- (c) On the CONTENT STATUS screen, save the Content Status
NOTE: A pop-up window will show a successful Content Status is saved.

E. Content Report Check

SUBTASK 44-35-00-850-018

- (1) On the CABIN MAINTENANCE screen, open the Configuration folder.
 - (a) From the CONFIGURATION FOLDER, select the Content Report folder.
 - 1) Make sure that the CONTENT REPORT is shown.
 - (b) On the CONTENT REPORT screen, make sure that the correct LRU and software part numbers is shown.
 - (c) On the CONTENT REPORT screen, select the Navigation icon.
 - (d) On the CONFIG DETAILS screen, select the SAVE button.
NOTE: A pop-up window will show a successful Configuration Check is saved.

F. Media Report Check

SUBTASK 44-35-00-850-019

- (1) On the CABIN MAINTENANCE screen, open the Configuration folder.
 - (a) From the CONFIGURATION FOLDER, select the Media Report folder.
 - 1) Make sure that the MEDIA REPORT screen is shown.
 - (b) From the MEDIA REPORT screen, make sure that the correct software part numbers and versions are reported.
 - (c) From the MEDIA REPORT screen, select the Navigation icon.
 - (d) On the CONFIG DETAILS screen, select the SAVE button.
NOTE: A pop-up window will show a successful Configuration Check is saved.

G. Configuration Report

SUBTASK 44-35-00-850-020

- (1) On the CABIN MAINTENANCE screen, open the Configuration folder.
 - (a) From the CONFIGURATION FOLDER, select the Config Report folder.
 - 1) Make sure that the CONFIG REPORT screen is shown.
 - (b) From the CONFIG REPORT screen, make sure that the Configuration Report is shown.
 - (c) On the CONFIG REPORT screen, select the Navigation icon.

H. System Software Load

SUBTASK 44-35-00-470-001

- (1) If the part numbers are not correct, do this task: System Software Load, TASK 44-35-00-470-801.

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I. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-020-003

- (1) Remove a USB storage device from the CT.

SUBTASK 44-35-00-850-021

- (2) Do this task: Log Out of the Global Communication Suite, TASK 44-35-00-860-803.

————— **END OF TASK** —————

TASK 44-35-00-470-801

8. System Software Load

(Figure 202)

A. General

- (1) This task has instructions to do a software load from the Crew Terminal (CT).

B. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-14397	Data Loader - Portable, Model PL500 Part #: 129530-01 Supplier: 4PXG7

C. Software Load

SUBTASK 44-35-00-860-094

- (1) Do this task: Initialize the Global Communication Suite, TASK 44-35-00-860-802.

SUBTASK 44-35-00-420-001

- (2) Connect a PL500 portable data loader, SPL-14397 to the data port side of the crew terminal.
 - (a) Install a LiveCD into the PL500 portable data loader, SPL-14397.
 - 1) Make sure that the SOFTWARE LOADING SETUP screen is shown.

SUBTASK 44-35-00-470-008

- (3) From the SOFTWARE LOADING SETUP screen, select the Change Config button.

NOTE: The following steps are for an initial software load for a replaced Broadband Controller (BC) using a LiveCD.

A drop-down list is shown.

- (a) From the drop-down list, select eXConnect.
 - 1) Make sure that the eXC option is shown as the current configuration.
- (b) From the SOURCE option on the SOFTWARE LOADING SETUP screen, select the User-Defined radio button.
 - 1) Make sure that the User-Defined value is 172.17.16.34.
 - 2) Make sure that the Ethernet cable is connected to the data loader port and PL500 portable data loader, SPL-14397.
 - 3) Reboot the laptop.

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- (c) From the TARGETS section of the SOFTWARE LOADING SETUP screen, select the BC checkbox.
- (d) From the SOFTWARE LOADING SETUP screen, select the Forward button.
 - 1) Make sure that the SOFTWARE LOADING STATUS screen is shown.

NOTE: Do not select the Load Software Kit button.
- (e) From the SOFTWARE LOADING STATUS screen, select the software item to load.

NOTE: Refer to SCI/SB/SIL/TIL for the software components, manifest or database to load. Make sure that the selected software matches the aircraft configuration.
- (f) From the SOFTWARE LOADING SETUP, select the Load button.
 - 1) Make sure that the manifest shows the status is LOADED in Mini-maint.

NOTE: Wait approximately 10 minutes and then reboot the system.
- (g) Cycle power to the system, do these tasks:
 - 1) Log Out of the Global Communication Suite, TASK 44-35-00-860-803
 - 2) Initialize the Global Communication Suite, TASK 44-35-00-860-802

SUBTASK 44-35-00-470-009

- (4) From a SOFTWARE LOADING SETUP screen, select the Change Config button.

NOTE: The following steps are for a software manifest and/or database upgrade for a replaced Line Replaceable Unit (LRU) using a LiveCD.

A drop-down list is shown.

 - (a) From the drop-down list, select eXConnect.
 - 1) Make sure that the eXC option is shown as the current configuration.
 - (b) From the SOURCE section of the SOFTWARE LOADING SETUP screen, select the User-Defined radio button.
 - 1) Make sure that the User-Defined value is 172.17.16.34.
 - 2) Make sure that the Ethernet cable is connected to the data loader port and PL500 portable data loader, SPL-14397.
 - 3) Reboot the laptop.
 - (c) From the TARGETS section of the SOFTWARE LOADING SETUP screen, select the BC checkbox.
 - (d) From the SOFTWARE LOADING SETUP screen, select the Forward button.
 - 1) Make sure that the SOFTWARE LOADING STATUS screen is shown.
 - (e) From the SOFTWARE LOADING STATUS screen, select the Load button.
 - 1) Make sure that the manifest status shows LOADED in the Mini-Maint.

NOTE: Wait approximately 10 minutes and reboot the system.
 - (f) Cycle power to the system, do these tasks:
 - 1) Log Out of the Global Communication Suite, TASK 44-35-00-860-803
 - 2) Initialize the Global Communication Suite, TASK 44-35-00-860-802

SUBTASK 44-35-00-860-095

- (5) Do this task: System Configuration Check, TASK 44-35-00-860-805.

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(a) Make sure that the software is loaded.

SUBTASK 44-35-00-860-096

(6) Do this task: Log Out of the Global Communication Suite, TASK 44-35-00-860-803.

————— END OF TASK —————

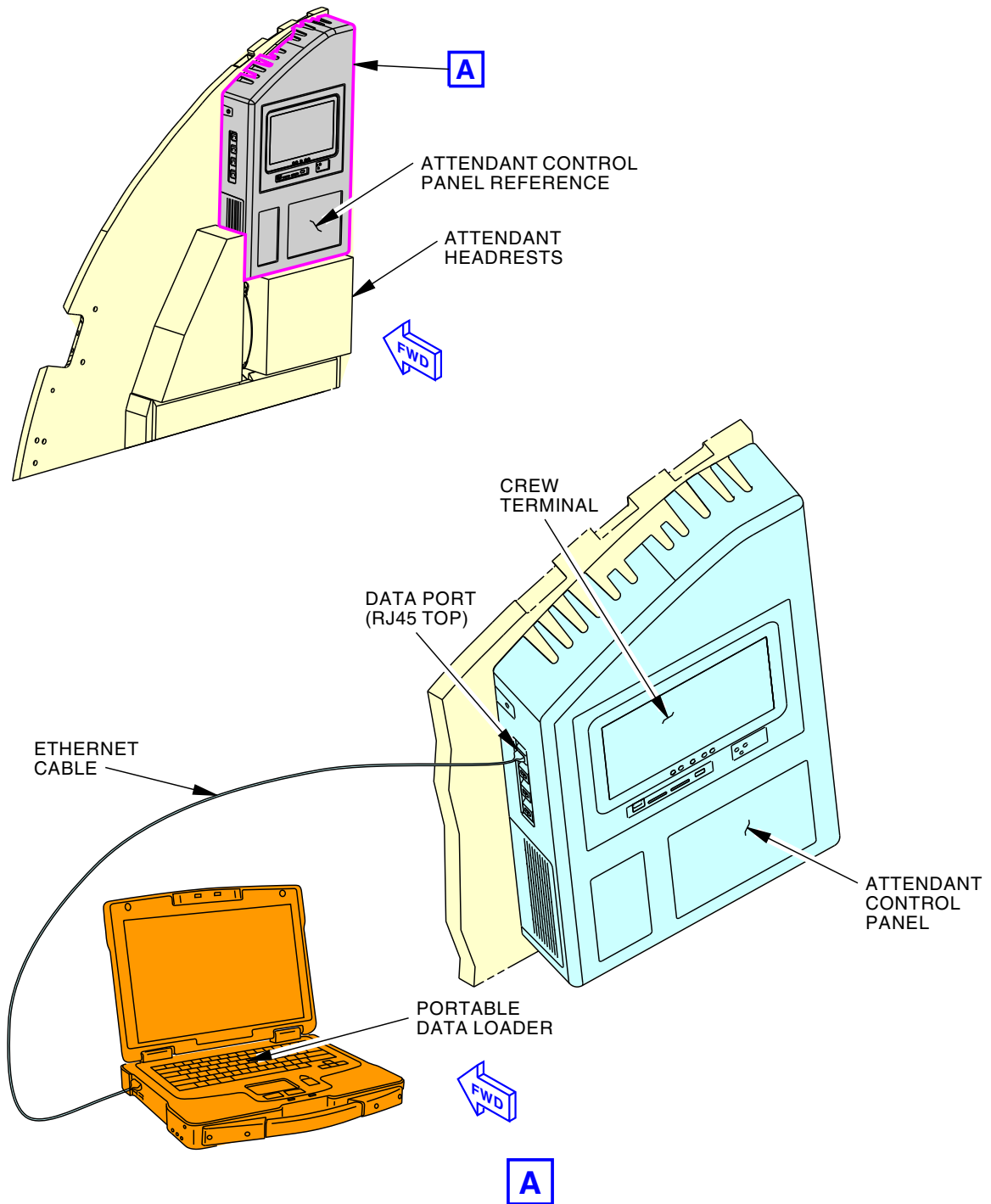
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Server Based Entertainment System Software Load
Figure 202/44-35-00-990-802

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TASK 44-35-00-470-802

9. Load Satellite Coverage or Portal Content

A. General

- (1) This task has instructions to load satellite coverage or portal content.

B. Prepare to Load

SUBTASK 44-35-00-860-089

- (1) Do this task: Initialize the Global Communication Suite, TASK 44-35-00-860-802.

SUBTASK 44-35-00-420-002

- (2) Install a USB storage device into the Crew Terminal (CT).

NOTE: Wait one minute for the pop-up window to be shown.

- (a) On the pop-up window, select the OK button.
1) Make sure that the pop-up window is closed.

C. Load Satellite Coverage or Portal Content

SUBTASK 44-35-00-470-002

- (1) On the CABIN MAINTENANCE screen, open the Loading folder.

NOTE: Manually load satellite coverage and content from a USB device through Load Software (Loaderclient).

Content must be loaded in order and individually, as called out in the load procedure.

- (a) From the LOADING FOLDER, select Load Software.
1) Make sure that the LOAD SOFTWARE screen is shown.
(b) On the LOAD SOFTWARE screen, select the USB Drive radio and Get Software List buttons.

NOTE: The LOAD SOFTWARE screen shows a list of available software on the USB storage device.

- 1) Make sure that content is shown:

NOTE: The file name will vary depending on version number. The following is an example of a file where XX.XX.XX.XX denotes the version number.

- bc_sat_cov_XX.XX.XX.XX
- gcs_modem_ver_XX.XX.XX.XX
- gcs_cds_modem_opts_X.XX.XX.XX
- gcs_cds_cfg_wja_XX.XX.XX.X
- wap_channel_mgmt_cfg_X.XX.XX.X

- (c) Make sure to highlight each content, select the LOAD button.
(d) If the content is loaded, make sure that the FORCE SOFTWARE LOAD screen is shown.
(e) On the FORCE SOFTWARE LOAD screen, push the YES button.

NOTE: A progress pop-up is shown.

- (f) Cycle power to the system, do these tasks:
1) Log Out of the Global Communication Suite, TASK 44-35-00-860-803

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- 2) Initialize the Global Communication Suite, TASK 44-35-00-860-802
- (g) Do the Content Status Check TASK 44-35-00-860-805.
 - 1) Make sure that the CONTENT STATUS screen shows updated file names, part numbers, and new load/activate dates.

SUBTASK 44-35-00-470-003

- (2) On the CABIN MAINTENANCE screen, open the Loading folder.

NOTE: Manual satellite coverage and/or portal content from a USB device via LMS Media/Content

- (a) From the LOADING FOLDER, select Media/Content Load.
 - 1) Make sure that the LOAD MEDIA/CONTENT screen is shown.
- (b) On the LOAD/MEDIA CONTENT screen, select the Refresh icon on the bottom right of the CT.
 - 1) Make sure that all USB LMS Content is shown.
- (c) On the LOAD/MEDIA CONTENT screen, select the content to activate and Start buttons..

NOTE: A loading message box is shown.
- (d) Make sure that the content load Status is Completed, select the Close button.
- (e) On the LOAD/MEDIA CONTENT screen, make sure that the content loaded status is shown as ACTIVATED.
- (f) Cycle power to the system, do these tasks:
 - 1) Log Out of the Global Communication Suite, TASK 44-35-00-860-803
 - 2) Initialize the Global Communication Suite, TASK 44-35-00-860-802
- (g) Do the Content Status/Content Report Check (TASK 44-35-00-860-805).
 - 1) Make sure that all content is loaded.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-020-001

- (1) Remove a USB storage device from the CT.

SUBTASK 44-35-00-860-090

- (2) Do this task: Log Out of the Global Communication Suite, TASK 44-35-00-860-803.

———— **END OF TASK** ————

TASK 44-35-00-470-803

10. Load Media and Content

A. General

- (1) This task has instructions to load media and content:
 - (a) Load Content
 - (b) Load Media
 - (c) Load Media Unattended
 - (d) Activate media

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B. Prepare to Load

SUBTASK 44-35-00-860-091

- (1) Do this task: Initialize the Global Communication Suite, TASK 44-35-00-860-802.

SUBTASK 44-35-00-420-003

- (2) Install a USB storage device into the Crew Terminal (CT).

NOTE: Wait one minute for the pop-up window to be shown.

- (a) On the pop-up window, select the OK button.
1) Make sure that the pop-up window is closed.

C. Load Content

SUBTASK 44-35-00-470-004

- (1) On the CABIN MAINTENANCE screen, open the Loading folder.
(a) From the LOADING FOLDER, select LMS MEDIA/CONTENT LOAD.
1) Make sure that the LOAD MEDIA CONTENT screen is shown.
(b) From the LOAD MEDIA CONTENT screen, select the Refresh icon.
1) Make sure that all the USB LMS Content is shown.
(c) From the LOAD MEDIA CONTENT screen, select the content to ACTIVATE and Start button.
NOTE: A loading message box is shown.
(d) Make sure to Wait for the content load to complete after the Status indicates Completed, select the Close button.
(e) Make sure that the content loaded status is shown ACTIVATED from the LOAD MEDIA/CONTENT menu.
(f) Cycle power to the system, do these tasks:
1) Log Out of the Global Communication Suite, TASK 44-35-00-860-803
2) Initialize the Global Communication Suite, TASK 44-35-00-860-802
(g) Do the Content Report Check (TASK 44-35-00-860-805).

D. Load Media

SUBTASK 44-35-00-470-005

- (1) On the CABIN MAINTENANCE screen, open the Loading folder.

NOTE: The STATUS messages can be interpreted as follows:

NA = The server detected this kit from the load device, ready for install.

ACTIVATED = The kit has been loaded or previously loaded.

AVTIVATED ERR = The kit has been loaded but contains errors.

- (a) From the LOADING FOLDER, select LMS MEDIA/CONTENT LOAD.
1) Make sure that the LOAD MEDIA/CONTENT screen is shown.
(b) From the LOAD MEDIA/CONTENT screen, select the media version to ACTIVATE and the Start button.

NOTE: A loading message box is shown.

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- (c) Make sure that the media load to complete after the Status indicates Complete, select the Close button.
- (d) On the LOAD MEDIA/CONTENT screen, make sure that the media loaded status is shown ACTIVATED.

NOTE: If the loading of any components is interrupted or times out and aborts, the load will stop and can be shown with "ACTIVATED-ERR" status. Resolve this by selecting the same kits again and installing again. The system restarts from where it was interrupted and continues until it is complete.

- (e) Cycle power to the system, do these tasks:
 - 1) Log Out of the Global Communication Suite, TASK 44-35-00-860-803
 - 2) Initialize the Global Communication Suite, TASK 44-35-00-860-802
- (f) Do the Media Report Check (TASK 44-35-00-860-805).

E. Load Media Unattended

SUBTASK 44-35-00-470-006

- (1) On the CABIN MAINTENANCE screen, open the Loading folder.
 - (a) From the LOADING FOLDER, select Unattended Media Load.
 - 1) Make sure that the UNATTENDED MEDIA LOAD screen is shown.
 - (b) From the UNATTENDED MEDIA LOAD screen, select the Add button.
 - (c) From the UNATTENDED MEDIA LOAD - ADD screen, select the check box for each part number to load and select the Load Select button.

NOTE: Wait for the media to load. While the load is active, if the pre-requisite are activated (Engine Off = 0) the load pauses. The load automatically resumes when the conditions are satisfied.

- (d) Open the Loading folder, make sure that the media loaded and select Unattended Media Load.
- (e) From the UNATTENDED MEDIA LOAD screen, select the View History button.
- (f) From the UNATTENDED MEDIA LOAD HISTORY screen, make sure that the load was successful.

NOTE: If the load was successful, the media is now staged and ready to be loaded.

F. Activate Media

SUBTASK 44-35-00-440-003

- (1) On the CABIN MAINTENANCE screen, open the Loading Folder.
 - (a) From the LOADING FOLDER, select Activate Media.
 - 1) Make sure that the ACTIVATE MEDIA screen is shown.
 - (b) From the ACTIVATE MEDIA screen, select the UP/DOWN arrow buttons to select the media day/month/year.
 - (c) From the ACTIVATE MEDIA screen, select the Activate Media button.
 - (d) From the ACTIVATE MEDIA screen, select the Navigation icon.
 - (e) From the LOADING FOLDER, select the LMS MEDIA/CONTENT LOAD.
 - 1) Make sure that the LOAD MEDIA/CONTENT screen is shown.

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- (f) From the LOAD MEDIA CONTENT screen, select the media version to load showing Stage.
- (g) On the LOAD MEDIA CONTENT screen, select the Start button.
 - 1) Make sure that the media is activated.
- (h) From the LOAD MEDIA SCREEN, select the Navigation icon.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-020-002

- (1) Remove a USB storage device from the CT.

SUBTASK 44-35-00-850-022

- (2) Do this task: Log Out of the Global Communication Suite, TASK 44-35-00-860-803.

———— **END OF TASK** ————

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BROADBAND COMMUNICATION SYSTEM - ADJUSTMENT/TEST

1. General

A. This procedure has these tasks:

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- (1) Exconnect Quick Test (BITE).
- (2) Exconnect System Function Test.
- (3) Exconnect System Status Test.
- (4) Exconnect Intranet Connectivity Test.
- (5) Exconnect Connectivity Test.

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- (6) Cabin Wireless Access Point - Operational Test.

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TASK 44-35-00-740-801

2. Exconnect Quick Test (BITE)

A. **General**

- (1) This task has instructions to do a Quick Test (BITE).

B. **References**

Reference	Title
44-35-00-860-802	Initialize the Global Communication Suite (P/B 201)
44-35-00-860-803	Log Out of the Global Communication Suite (P/B 201)

C. **Quick Test (BITE)**

SUBTASK 44-35-00-860-092

- (1) Do this task: Initialize the Global Communication Suite, TASK 44-35-00-860-802.

SUBTASK 44-35-00-420-005

- (2) Install a USB storage device into the Crew Terminal (CT).
NOTE: Wait one minute for the pop-up window to be shown.
 - (a) On the pop-up window, select the OK button.
 - 1) Make sure that the pop-up window is closed.

SUBTASK 44-35-00-740-001

- (3) On the CABIN MAINTENANCE screen, open the Systems Tests folder.
 - (a) From the SYSTEMS TESTS folder, select the Start Quick Test.
 - 1) Make sure that the QUICK TEST DETAILS screen is shown.
NOTE: The Quick Test completes in one minute.
 - (b) From the QUICK TEST screen, select the Details button.
 - 1) Make sure that the QUICK TEST DETAILS screen is shown.
 - (c) From the QUICK TEST DETAILS screen, review the details.
 - 1) Make sure to do the recommended maintenance actions shown.

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SUBTASK 44-35-00-470-007

(4) On the QUICK TEST DETAILS screen, select the SAVE button.

(a) Make sure that the Configuration Check is saved.

SUBTASK 44-35-00-020-004

(5) Remove a USB storage device from the CT.

SUBTASK 44-35-00-860-093

(6) Do this task: Log Out of the Global Communication Suite, TASK 44-35-00-860-803.

————— END OF TASK —————

TASK 44-35-00-730-804

3. Exconnect System Function Test

A. General

(1) This task has instructions for the Exconnect System Function Test:

(a) Keyline and Physical Discrete Interface Test

(b) Boarding Music Test

(c) PRAM Announcement Test

(d) Decompression Test.

B. References

Reference	Title
46-13-02-710-801	Onboard Maintenance Function Ground Test (P/B 201)

C. Prepare for the Test

SUBTASK 44-35-00-850-001

(1) Make sure that the overhead panel P5-13, IFE/PASS SEAT switch is OFF.

(a) Make sure that the "System Unavailable - The Flight Deck has turned power OFF for non-essential functions" is shown on the Forward Attendant Control Panel (ACP).

SUBTASK 44-35-00-850-002

(2) Make sure that the IRS MSU left and right mode select switches to OFF.

SUBTASK 44-35-00-850-003

(3) Make sure that the overhead panel P5, FASTEN BELTS switch is OFF.

SUBTASK 44-35-00-850-004

(4) Energize the IFE system as follows:

(a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

SUBTASK 44-35-00-850-005

(5) Make sure that the CABIN MAINTENANCE screen is shown on the Crew Terminal.

NOTE: The Crew Terminal will boot up in 8-10 minutes.

SUBTASK 44-35-00-850-006

(6) On the CABIN MAINTENANCE screen, push the SYSTEM MAINT button.

(a) On the SYSTEM MAINT screen, push the FLIGHT STATE button.

1) Make sure that the FLIGHT STATE is OPEN.

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SUBTASK 44-35-00-850-007

- (7) On the MAIN MENU screen, push the MAINTENANCE button
 - (a) On the MAINTENANCE screen, push the LOGIN button.
 - (b) On the LOGIN screen, push the VIRTUAL KEYBOARD button.
 - 1) Make sure to enter the applicable passcode on the VIRTUAL KEYBOARD.
 - 2) Push ENTER on the VIRTUAL KEYBOARD.

D. Keyline and Physical Discrete Interface Test

SUBTASK 44-35-00-710-012

- (1) On the CABIN MAINTENANCE screen, push the SYSTEM STATUS button.
 - (a) From the SYSTEM STATUS screen, push the DISCRETE/COMM STATUS button.

NOTE: The status of the discrete signals are shown on the DISCRETE/COMM STATUS screen.

It may take 15 to 35 seconds before the change of state is reported at the DISCRETE/COMM STATUS screen. The screen needs to be refreshed to update the status reported before verifying the discrete signal change of state.
 - (b) Put the airplane in GROUND mode.
 - (c) On the Multi-Function Display (MFD) panel, P9-82, select the SYS button (TASK 46-13-02-710-801):

NOTE: The following steps will check the AIR/GROUND keyline.

 - 1) Select the MAINT button.
 - 2) Select the ONBD MAINT button.
 - 3) Select the OTHER FUNCTIONS button.
 - 4) Select the SPECIAL FUNCTIONS button.
 - 5) Select the ATA SYSTEM 32 button.
 - 6) Select the PSEU button.
 - 7) Select the CONTINUE button.
 - 8) Select the AIR/GND OVERRIDE button.
 - 9) Select the CONTINUE button.
 - 10) Select the START FUNCTION button.
 - (d) Set the SYS 1 and SYS 2 to IN GND.
 - (e) Select the CONTINUE button.
 - 1) Make sure that the WEIGHT_ON_WHEELS discrete status shows GROUNDED.
 - (f) Put the airplane in AIR mode.
 - (g) On the Multi-Function Display (MFD) panel, P9-82, select the SYS button (TASK 46-13-02-710-801):

NOTE: The following steps will check the AIR/GROUND keyline.

 - 1) Select the MAINT button.
 - 2) Select the ONBD MAINT button.
 - 3) Select the OTHER FUNCTIONS button.

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- 4) Select the SPECIAL FUNCTIONS button.
 - 5) Select the ATA SYSTEM 32 button.
 - 6) Select the PSEU button.
 - 7) Select the CONTINUE button.
 - 8) Select the AIR/GND OVERRIDE button.
 - 9) Select the CONTINUE button.
 - 10) Select the START FUNCTION button.
- (h) Set the SYS 1 and SYS 2 to IN AIR.
- 1) Make sure that the WEIGHT_ON_WHEELS discrete status shows OPEN.
- (i) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00458	ENGINE 1 IGNITION RIGHT
A	3	C00153	ENGINE 1 IGNITION LEFT

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C00459	ENGINE 2 IGNITION RIGHT
D	6	C00151	ENGINE 2 IGNITION LEFT

NOTE: The following steps will check the ENGINE ON/OFF keyline.

- (j) Make sure that the ENG 1 START LEVER and ENG 2 START LEVER are at CUTOFF.
- (k) Make sure that the overhead panel P5, ENG 1 START and ENG 2 START switches are OFF.
- (l) Make sure that the ENG 1 FIRE HANDLE and ENG 2 FIRE HANDLE are not pulled.
- (m) Make sure that the airplane is in ground mode.
- (n) Make sure the Auxiliary Power Unit (APU) is OFF.
- (o) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	1	C01316	ENGINE 1 START LEVER CHAN A
B	3	C01312	ENGINE 1 RUN/PWR

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
B	5	C01313	ENGINE 2 RUN/PWR
B	6	C01318	ENGINE 2 START LEVER CHAN A

- (p) On the DISCRETE/COMM STATUS screen, make sure that the ENGINE_OFF discrete status shows GROUNDED.
- (q) Move the ENG 1 START LEVER and ENG 2 START LEVER to the IDLE position.
 - 1) Make sure to wait 5 minutes.

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- (r) On the DISCRETE/COMM STATUS screen, make sure that the ENGINE_OFF discrete status shows OPEN.
 - 1) Make sure to refresh the DISCRETE/COMM STATUS screen.
- (s) Move the ENG 1 START LEVER and ENG 2 START LEVER to CUTOFF position.
- (t) On the DISCRETE/COMM STATUS screen, make sure that the ENGINE_OFF discrete status shows GROUNDED.
- (u) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	1	C00458	ENGINE 1 IGNITION RIGHT
A	3	C00153	ENGINE 1 IGNITION LEFT

F/O Electrical System Panel, P6-2

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	4	C00459	ENGINE 2 IGNITION RIGHT
D	6	C00151	ENGINE 2 IGNITION LEFT

- (v) On the DISCRETE/COMM STATUS screen, make sure that the WEIGHT_ON_WHEELS discrete status shows GROUNDED.
- (w) Close and lock the Left Forward Entry Door.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that the ALL_DOOR_CLOSED discrete status shows GROUNDED.
- (x) Open the Left Forward Entry Door.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that the ALL_DOOR_CLOSED discrete status shows OPEN.
- (y) Set the Parking Brake.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that the PARKING_BRAKE_SET discrete status shows GROUNDED.
- (z) Release the Parking Brake.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that the PARKING_BRAKE_SET discrete status shows OPEN.
- (aa) Set the overhead panel P5, FASTEN BELTS switch to ON.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that the FASTEN_SEAT_BELT discrete status shows GROUNDED.
 - 2) Make sure that the Fasten Seat Belt audio announcement is not heard on the overhead Passenger Address (PA) speakers.
- (ab) Set the overhead panel P5, FASTEN BELTS switch to OFF.
 - 1) On the DISCRETE/COMM STATUS screen, make sure that the FASTEN_SEAT_BELT discrete status shows OPEN.

NOTE: The FASTEN SEAT BELT audio announcement may be heard on the overhead PA speakers.
- (ac) On the MAINTENANCE screen, push the MAIN MENU button.

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E. Boarding Music Test

SUBTASK 44-35-00-710-013

- (1) On the CABIN MAINTENANCE screen, push the BGM (Boarding Music) button.
 - (a) On the BGM screen, push the PLAY button.
 - 1) Make sure that the boarding music is heard on the overhead PA speakers.
 - (b) On the BGM screen, push the STOP button.
 - 1) Make sure that the boarding music stops playing on the overhead PA speakers.
 - 2) On the MAIN MENU screen, push the MENU button.

F. PRAM Announcement Test

SUBTASK 44-35-00-710-014

- (1) On the MAIN MENU screen, push the PRAM (Pre-Recorded Announcement Machine) button.
 - (a) On the PRAM screen, select the applicable file from SELECT SOURCE list.
 - (b) On the PRAM screen, select the ALLZONE button.
 - (c) On the PRAM screen, select the PLAY ALL button.
 - 1) Make sure that the PRAM AUDIO ANNOUNCEMENTS is heard on the overhead PA speakers.

NOTE: When the PRAM AUDIO ANNOUNCEMENTS is done, the message will disappear from the CURRENTLY PLAYING list.
 - (d) Speak into a Flight Attendant headset for a PA ANNOUNCEMENT.
 - 1) Make sure that your voice is heard on the overhead PA speakers.
 - (e) Stop the PA ANNOUNCEMENT on the overhead PA speakers.
 - 1) Make sure that the PRAM AUDIO ANNOUNCEMENT resume.

G. Decompression Test

SUBTASK 44-35-00-710-015

- (1) On the CABIN MAINTENANCE screen, select the BGM (Boarding Music) button.
 - (a) From the BGM screen, select the applicable file from the SELECT SOURCE list screen.
 - (b) From the SELECT SOURCE list screen, select the ALL ZONE button.
 - (c) From the BGM screen, select the START button.
 - 1) Make sure that the boarding music is heard on the overhead PA speakers.
 - (d) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

- 1) Make sure that the oxygen masks do not drop.

NOTE: The proper position of the Passenger Service Unit (PSU) oxygen mask door safety latches is recommended before proceeding with the following steps.

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- (e) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

- (f) Set the overhead panel P5, S1 MANUAL OXYGEN switch to ON.
- 1) Make sure that the DECOMPRESSION MESSAGE is ONLY played on the overhead PA speakers.
NOTE: The DECOMPRESSION MESSAGE may only be as long as 20 seconds.
 - 2) Make sure that the screen shows DECOMPRESSION has occurred or a blank screen.
 - 3) Make sure that the DECOMPRESSION MESSAGE is done.
- (g) Speak a PA ANNOUNCEMENT into the Pilot's microphone headset.
- 1) Make sure that the DECOMPRESSION MESSAGE does not start.
- (h) Set the overhead panel P5-13, IFE/PASS SEAT switch to OFF.
- (i) Open and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

- (j) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.
- (k) On the CABIN MAINTENANCE menu, make sure that the MAIN MENU screen is shown.
NOTE: The Crew Terminal will boot-up in 8–10 minutes.
- (l) On the MAIN MENU screen, push the OPEN FLIGHT button from the START MENU screen.
- (m) On the OPEN FLIGHT screen, push the CLOSE FIGHT button.
- (n) On the PLEASE CONFIRM screen, push the CONFIRM button.
- (o) On the NOTIFICATION window, push the CLOSE button .

SUBTASK 44-35-00-860-088

- (2) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-850-009

- (1) Set the overhead panel P5-13, IFE/PASS SEAT switch to OFF.

————— **END OF TASK** —————

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TASK 44-35-00-710-803

4. Exconnect System Status Test

(Figure 501)

A. General

- (1) This task has instructions to perform a system status test of the Exconnect System.

B. Exconnect System Status Test

SUBTASK 44-35-00-860-048

- (1) Set the overhead panel P5-99, BROADBAND CONTROL PANEL, switch to OFF.

SUBTASK 44-35-00-860-049

- (2) Do the steps to check the antenna connectivity at the Crew Terminal:
- (a) On the EXCONNECT MAINT menu, push the ANTENNA INFO button.
 - (b) Make sure that the MODEM RECEIVER SNR is N/A.
 - (c) Make sure that the ANTENNA TRANSMITT EIRP is N/A.

SUBTASK 44-35-00-860-051

- (3) Do these steps to check antenna power on ground from the Crew Terminal:
- (a) On the MAINTENANCE menu, push the SYSTEM STATUS button
 - (b) On the SYSTEM STATUS menu, push the DISCRETE/COMM STATUS button.
 - (c) Make sure that the ANTENNA_POWER_ON_GROUND status reports POWER-OFF.

SUBTASK 44-35-00-860-173



MAKE SURE THAT PERSONNEL STAY A MINIMUM OF 15 FEET (5 METERS) FROM THE BROADBAND ANTENNA ON THE AIRPLANE WHILE THE BROADBAND COMMUNICATION SYSTEM IS ON. IF YOU DO NOT OBEY, THE RADIO FREQUENCY (RF) ENERGY CAN CAUSE INJURIES TO PERSONNEL.

- (4) Set the overhead panel P5-99, BROADBAND CONTROL PANEL, switch to ON.

NOTE: The Broadband Antenna will boot-up in 10 minutes.

SUBTASK 44-35-00-860-053

- (5) Do these steps for the antenna power status on the ground:
- (a) On the MAINTENANCE menu, push the SYSTEM STATUS button.
 - (b) On the SYSTEM STATUS menu, push the DISCRETE/COMM STATUS button.
 - (c) On the DISCRETE/COMM STATUS menu, push the REFRESH button.
 - (d) Make sure that the ANTENNA_POWER_ON_GROUND status is shown as POWER-ON.

SUBTASK 44-35-00-860-054

- (6) Set the overhead panel P5-99, BROADBAND CONTROL PANEL, to OFF.

————— **END OF TASK** —————

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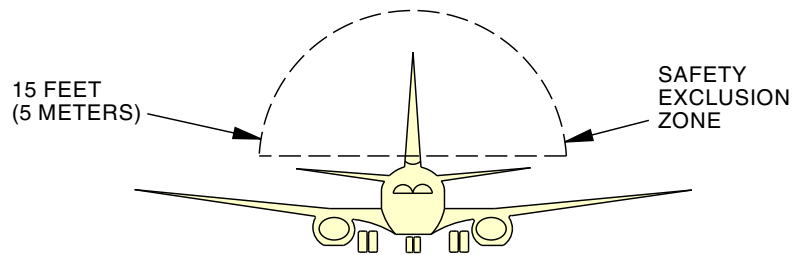
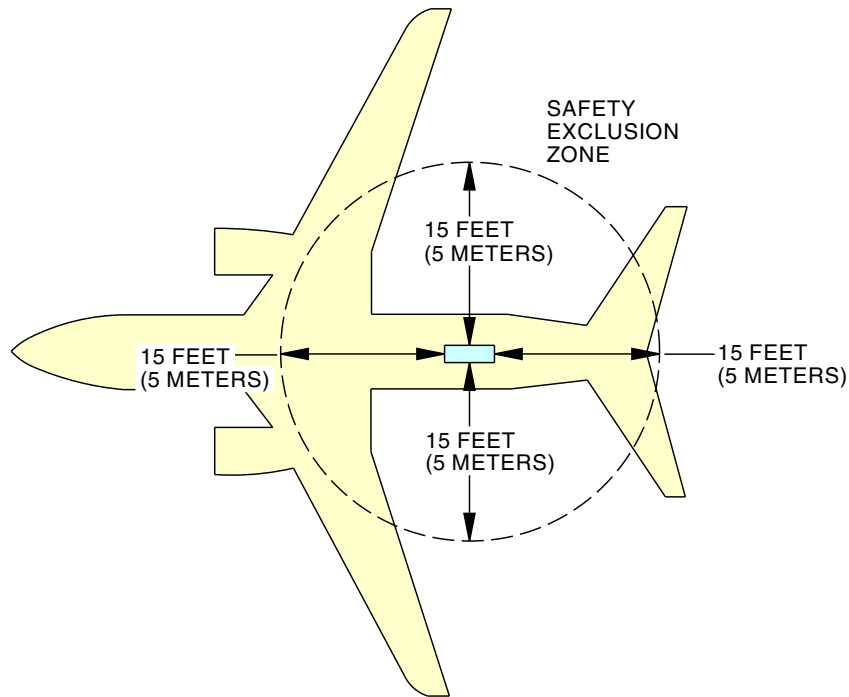
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RF Safety Exclusion Zone
Figure 501/44-35-00-990-810

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TASK 44-35-00-710-804

5. Exconnect Intranet Connectivity Test

A. General

- (1) This task has instructions to test the Exconnect intranet connectivity.

B. References

Reference	Title
44-35-00-860-802	Initialize the Global Communication Suite (P/B 201)
44-35-00-860-803	Log Out of the Global Communication Suite (P/B 201)

C. Exconnect Intranet Connectivity Test

SUBTASK 44-35-00-860-097

- (1) Do this task: Initialize the Global Communication Suite, TASK 44-35-00-860-802.

SUBTASK 44-35-00-720-001

- (2) Do the Cabin Wireless Access Point (CWAP) radio test (TASK 44-35-00-730-803).

SUBTASK 44-35-00-420-006

- (3) Connect a wireless enabled Personal Electronic Device (PED) to the wireless network.
 - (a) Make sure the applicable SSID is selected.

SUBTASK 44-35-00-850-026

- (4) On the PED, open the web browser.
 - (a) Make sure that portal page is shown.

SUBTASK 44-35-00-040-004

- (5) Power off the CWAP (TASK 44-35-00-730-803).
 - (a) Make sure that the intranet connection is lost.

SUBTASK 44-35-00-860-098

- (6) Do this task: Log Out of the Global Communication Suite, TASK 44-35-00-860-803.

————— END OF TASK —————

TASK 44-35-00-730-803

6. Exconnect Connectivity Test

(Figure 501)

A. General

- (1) This task performs a connectivity test for the Exconnect System.
 - (a) UMS Component Download
 - (b) Antenna Commissioning and Alignment Test
 - (c) Exconnect Power Setup and System Status Test
 - (d) Exconnect Cabin Wireless Access Point Configuration Test
 - (e) Maintenance Aircraft Information Setup
 - (f) Wireless Access Point Radio Test
 - (g) Wireless Access Point Power Off
- (2) Before the connectivity test, do not perform these operations:

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- (a) Fill the fuel tanks.
- (b) Empty the fuel tanks.
- (c) De-Ice the wings.
- (d) Park the Airplane in a hangar.
- (e) Park the Airplane next to a building.

NOTE: The airplane requires a unobstructed view to connect to the satellite.

- (f) Do not work above the Broadband Communication System Radome.

B. Tools/Equipment

Reference	Description
STD-13611	Laptop - Generic (Minimum requirements: Windows 7 SP1, 500MHz processor, 256MB RAM, 10/100 BaseT Ethernet port, CD-ROM/DVD media drive, 60GB hard drive, English language)

C. Prepare for the Test

SUBTASK 44-35-00-860-061

- (1) Energize the cabin systems as follows:
 - (a) Set the overhead panel P5-13, IFE/PASS SEAT, switch to ON.
 - (b) Make sure that the Forward Attendant Control Panel (ACP), Wi-Fi power is set to ON.

SUBTASK 44-35-00-860-062

- (2) Set the overhead panel P5 IRS, left and right ADIRU, switch to NAV mode.

NOTE: Wait till the alignment is displayed on the P5 IRS panel.

SUBTASK 44-35-00-860-063



WARNING

MAKE SURE THAT PERSONNEL STAY A MINIMUM OF 15 FEET (5 METERS) FROM THE BROADBAND ANTENNA ON THE AIRPLANE WHILE THE BROADBAND COMMUNICATION SYSTEM IS ON. IF YOU DO NOT OBEY, THE RADIO FREQUENCY (RF) ENERGY CAN CAUSE INJURIES TO PERSONNEL.

- (3) Set the overhead panel P5-99, BROADBAND CONTROL PANEL, switch to ON.

SUBTASK 44-35-00-850-057

- (4) Wait 10 minutes for the Crew Terminal to boot-up.
 - (a) Make sure that the MAIN menu screen is shown on the Crew Terminal.

SUBTASK 44-35-00-850-056

- (5) On the CABIN MAINTENANCE screen, push the SYSTEM MAINT button.
 - (a) On the SYSTEM MAINT screen, push the FLIGHT STATE button.
 - 1) Make sure that the FLIGHT STATE is OPEN.

SUBTASK 44-35-00-860-067

- (6) Do the Exconnect setup at the Crew Terminal:
 - (a) On the MAIN menu screen, push the MAINTENANCE button.
 - (b) On the LOGIN screen, push the VIRTUAL KEYBOARD button.
 - (c) Enter the applicable passcode on the VIRTUAL KEYBOARD.

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- (d) Push ENTER on the VIRTUAL KEYBOARD.

D. UMS Component Download

SUBTASK 44-35-00-860-068

- (1) Do these steps to check the power to the Cell Modem:
- (a) On the MAIN menu, push the MAINTENANCE button.
 - (b) On the MAINTENANCE menu, push the SYSTEM MAINT button.
 - (c) On the SYSTEM MAINT button, push the CELL MODEM MAINTENANCE button.
 - 1) Make sure that the Cell Modem is ON.

SUBTASK 44-35-00-860-069

- (2) Do the steps for commissioning the correct content files:
- (a) On the MAIN menu, push the MAINTENANCE button.
 - (b) On the MAINTENANCE menu, push EXCONNECT MAINT button.
 - (c) On the EXCONNECT MAINT menu, push COMMISSIONING button.
 - (d) On the COMMISSIONING menu, push the XID button.
 - (e) On the XID menu, enter the Tail Number of the airplane.

NOTE: The system will not be commissioned if an incorrect XID number is entered into the XID menu. The Broadband Controller and Cell Modem cell numbers need to match with the Panasonic Mission Control Center (MCC).
 - (f) Call the MCC for Content Delivery Services for the correct files.

NOTE: Call the Mission Control Center at (425) 415-9800.
 - (g) On the CONTENT NAME Table, download the files listed.
 - (h) Make sure that the Broadband Controller will reboot.

SUBTASK 44-35-00-860-070

- (3) Do these steps for the Content Report from the Crew Terminal:
- (a) On the MAIN menu, push the MAINTENANCE button.
 - (b) On the MAINTENANCE menu, push the LMS MEDIA button.
 - (c) On the CONFIGURATION menu, push the CONTENT REPORT.

SUBTASK 44-35-00-860-071

- (4) Make sure that the GCS UMS content is shown on the MAINTENANCE screen.

NOTE: The file status should be ACTIVATED on the STATUS column.

GCS UMS Content

CONTENT NAME	RECORD VERSION	Status
gcs_modem_ver		Activated
gcs_modem_opts_13_0_0		Activated
bc_sat_cov_ems		Activated
wap_channel_mgmt_cfg		Activated
keystore_ife_gcs_00000D9G_01.01.00.0_Kit00000D9G		Activated

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E. Antenna Commissioning and Alignment Test

SUBTASK 44-35-00-860-072



MAKE SURE THAT PERSONNEL STAY A MINIMUM OF 15 FEET (5 METERS) FROM THE BROADBAND ANTENNA ON THE AIRPLANE WHILE THE BROADBAND COMMUNICATION SYSTEM IS ON. IF YOU DO NOT OBEY, THE RADIO FREQUENCY (RF) ENERGY CAN CAUSE INJURIES TO PERSONNEL.

- (1) Set the overhead panel P5-99, BROADBAND CONTROL PANEL, switch to ON.

SUBTASK 44-35-00-860-074

- (2) Do these steps for commissioning the antenna:

- (a) On the MAIN menu, push the MAINTENANCE button.
- (b) On the MAINTENANCE menu, push the EXCONNECT MAINT button.
- (c) On the EXCONNECT MAINT menu, push the COMMISSIONING button.
- (d) Call the Mission Control Center (MCC) ground station.

NOTE: Call the Mission Control Center at (425) 415-9800.

- (e) Make sure to set the content delivery service to inactive for this tail and XID number.
- (f) On the COMMISSIONING screen, push the START COMMISSIONING button.

NOTE: A pop-up message will display COMMISSIONING IN PROGRESS.

- (g) On the COMMISSIONING COMPLETE pop-up window, push the OK button.

NOTE: The Commissioning status will show COMMISSIONING COMPLETE.

The Broadband Controller will automatically reboot after 20 minutes.

SUBTASK 44-35-00-860-075

- (3) Do these steps to check the satellite status from the Crew Terminal:

- (a) On the EXCONNECT menu, push the SATELLITE STATUS button.
- (b) Make sure that the SATELLITE STATUS screen shows COMMISSIONING COMPLETE.
- (c) On the EXCONNECT MAINT menu, push the EMS ANTENNA INSTALLATION button.
- (d) Make sure that the OFFSET values are listed in the table.

OFFSET VALUES

YAW	PITCH	ROLL
0.00	0.00	0.00

- (e) On the EXCONNECT MAINT menu, push the SATELLITE STATUS button.
- (f) Make sure that the Modem Status Line shows IN NETWORK.

SUBTASK 44-35-00-860-077

- (4) Set the overhead panel P5-99, BROADBAND CONTROL PANEL, switch to OFF.

F. Exconnect Power Setup and System Status Test

SUBTASK 44-35-00-710-036

- (1) On the MAINTENANCE MENU screen, select the EXCONNECT MAINT button.
- (a) From the EXCONNECT MAINT screen, select the ANTENNA INFO button.

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- 1) Make sure that the GET ANTENNA INFO failed.
- (b) Select the OK button.



WARNING

MAKE SURE THAT PERSONNEL STAY A MINIMUM OF 15 FEET (5 METERS) FROM THE TOP-MOUNTED ANTENNA WHILE IT TRANSMITS. IF YOU DO NOT OBEY, THE RADIO FREQUENCY (RF) ENERGY CAN CAUSE INJURIES TO PERSONNEL.

- (c) Set the overhead panel P5-99, BROADBAND CONTROL PANEL switch to ON.
- (d) On the MAINTENANCE MENU, select the SYSTEM STATUS button.
 - 1) Make sure that the ANTENNA_POWER_ON_GROUND shows POWER-OFF.
- (e) On the DISCRETE/COMM STATUS, select the REFRESH button.
 - 1) Make sure that the ANTENNA_POWER_ON_GROUND shows POWER-ON.

G. Exconnect Cabin Wireless Access Point Configuration Test

SUBTASK 44-35-00-860-078

- (1) Do these steps to configure the Exconnect Cabin Wireless Access Point (CWAP) from the Crew Terminal:
 - (a) On the MAIN menu, push the MAINTENANCE button.
 - (b) On the MAINTENANCE menu, push the EXCONNECT button.
 - (c) On the EXCONNECT MAINT menu, push the WIFI STATUS button.
 - (d) On the WI-FI STATUS menu for each CWAP, push each check box.
 - (e) On the WI-FI STATUS menu, push the RECONFIGURE button.

NOTE: A message "Please wait WAP configuration is in progress" is shown.
WAP configuration may take 10 minutes.
 - (f) Make sure that the message "Requested WAPs configured successfully " is shown on the WI-FI status screen.
 - (g) On the WAPS CONFIGURED SUCCESSFULLY pop-up, push the OK button.

NOTE: The WI-FI Status Screen to update for 5 minutes.
 - (h) Make sure that all PEDs and Cell Phones on the airplane have WIFI disabled.

NOTE: The PED with WIFI enables will be shown on the WI-FI STATUS screen in Table 501.

Table 501/44-35-00-993-803 WIFI STATUS SCREEN

SELECT	NO	STATUS	PUBLIC CLIENTS	PRIVATE CLIENTS	LOCATION
	1	Radio 1 - Enabled Radio 2 - Enabled	0	0	WAP 1
	2	Radio 1 - Enabled Radio 2 - Enabled	0	0	WAP 2
	3	Radio 1 - Enabled Radio 2 - Enabled	0	0	WAP 3

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Table 501/44-35-00-993-803 WIFI STATUS SCREEN (Continued)

SELECT	NO	STATUS	PUBLIC CLIENTS	PRIVATE CLIENTS	LOCATION
	4	Radio 1 - Enabled Radio 2 - Enabled	0	0	WAP 4

- (i) On the EXCONNECT MAINT menu, push the WAP TX power.
- (j) Make sure that the WAP TX POWER is shown in Table 502.

Table 502/44-35-00-993-804 WAP TX POWER

WAP #	RADIO #	CURRENT TX POWER (dBm)
1	1	15
1	2	10
2	1	15
2	2	10
3	1	15
3	2	10
4	1	15
4	2	10

- (k) On the EXCONNECT MAINT menu, push the WAP RADIO CONTROL.
- (l) Make sure that the WAP RADIO CONTROL is shown in Table 503.

Table 503/44-35-00-993-805 WAP RADIO CONTROL

WAP No.	RADIO	STATUS	Operating Frequency Channel
1	1	Disabled	165
1	2	Disabled	1
2	1	Disabled	36
2	2	Disabled	6
3	1	Disabled	149
3	2	Disabled	11
4	1	Disabled	161
4	2	Disabled	1

H. Maintenance Aircraft Information Setup

SUBTASK 44-35-00-860-079

- (1) Do these steps to setup the Aircraft Maintenance Aircraft Information:
 - (a) On the Crew Terminal, push the SYSTEM STATUS button.
 - (b) On the SYSTEM STATUS menu, push the MAINT AIRCRAFT INFORMATION button.
 - (c) Enter the Aircraft Tail Number, Registration Number, and Serial Number in the AIRCRAFT INFO box.

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SIA 015-999 (Continued)

- (d) Make sure that the CWAP will stream audio and video content.

I. Wireless Access Point Radio Test

SUBTASK 44-35-00-860-080

- (1) Do these steps to check the radio for the Wireless Access Point (WAP):
 - (a) On the MAIN menu, push the MAINTENANCE button.
 - (b) On the MAINTENANCE menu, push the EXCONNECT MAINT button.
 - (c) On the EXCONNECT MAINT menu, push the WAP RADIO CONTROL button.
 - (d) On the WAP RADIO CONTROL menu, push the check box from the SELECT COLUMN in Table 501 for each WAP.
 - (e) On the WAP RADIO CONTROL menu, push the DISABLE button.
 - (f) Make sure that the WAP RADIO CONTROL menu is shown in Table 503.
 - (g) Make sure to check the applicable WAP and Radio on the WAP RADIO CONTROL menu.
 - (h) On the WAP RADIO CONTROL menu, push the applicable ENABLE button for the applicable WAP and Radio.
 - (i) Make sure that the applicable SSID is shown on the wireless enabled laptop, STD-13611 wireless connection list.
 - (j) Connect to the applicable SSID on the wireless connection list.
 - (k) Open the web browser.
 - (l) Enter WWW.YAHOO.COM.
 - (m) Make sure the web page is shown on the wireless enabled laptop, STD-13611.
 - (n) Enter api.inflightpanasonic.aero/portal.
 - (o) On the web page, push the SELECT 'Passenger Services'
 - (p) Click Metadata
 - (q) Click Home
 - (r) Select from Passenger Services 'Movies' or 'Music' to stream.

J. Wireless Access Point Power Off

SUBTASK 44-35-00-860-081

- (1) Do these steps to power off the applicable Wireless Access Point (WAP) from the Crew Terminal:
 - (a) On the MAIN menu, push the MAINTENANCE button.
 - (b) On the MAINTENANCE menu, push the EXCONNECT MAINT button.
 - (c) On the EXCONNECT MAINT menu, push the WAP RADIO CONTROL button.
 - (d) On the WAP RADIO CONTROL menu, push the applicable WAP/Radio check box.
 - (e) On the WAP RADIO CONTROL menu, push the ENABLE button.
 - NOTE:** The Wi-Fi system will boot up for 7 minutes.
 - (f) Make sure that the applicable SSID is shown on the Wireless Network Connection List.
 - (g) Set the Forward ACP, WI-FI power to OFF.

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SIA 015-999 (Continued)

- (h) Make sure that the applicable SSID is not shown on the Wireless Network Connection List.

NOTE: The SSID will be removed in 3 minutes from the laptop connection page.

- (i) Set the Forward ACP, WI-FI power to ON.

NOTE: The WIFI system will boot up in 15 minutes.

- (j) Make sure that the applicable SSID is shown on the Wireless Network Connection List.

K. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-860-085

- (1) Set the overhead panel P5-99, BROADBAND CONTROL PANEL, switch to OFF.

SUBTASK 44-35-00-860-086

- (2) Set the overhead panel P5-13, IFE/PASS SEAT, switch to OFF.

————— **END OF TASK** —————

SIA 001-014

TASK 44-35-00-710-805

7. Cabin Wireless Access Point Operational Test

A. General

- (1) This task has instructions to do the operational test of a cabin wireless access point.

B. Prepare for the Test

SUBTASK 44-35-00-850-051

- (1) Energize the Wi-Fi system as follows:

- (a) Set the overhead panel P5-13, IFE/PASS SEAT switch to ON.

- (b) Make sure that the Forward Attendant Control Panel (ACP), Wi-Fi power is set to ON.

NOTE: Wait approximately 8 to 10 minutes for the Crew Terminal to boot up.

SUBTASK 44-35-00-850-052

- (2) On the SYSTEM MAINT menu, select the FLIGHT STATE button.

- (a) Make sure that the FLIGHT STATE is open.

C. Cabin Wireless Access Point Operational Test

SUBTASK 44-35-00-710-030

- (1) On the MAINTENANCE menu, select the eXW MAINT button.

- (a) On the eXW MAINT menu, select the WI-FI STATUS button.

- 1) Make sure that the WI-FI STATUS screen is shown.

Wireless Access Point Status

WAP No.	Status	Public Clients	Private Clients	Location
1	Radio 1 - Disabled Radio 2 - Disabled	0	0	WAP 1
2	Radio 1 - Disabled Radio 2 - Disabled	0	0	WAP 2

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SIA 001-014 (Continued)

Wireless Access Point Status (Continued)

WAP No.	Status	Public Clients	Private Clients	Location
3	Radio 1 - Disabled Radio 2 - Disabled	0	0	WAP 3
4	Radio 1 - Disabled Radio 2 - Disabled	0	0	WAP 4

(b) On the eXW MAINT menu, select the WAP TX POWER button.

1) Make sure that the WAP TX POWER screen is shown.

Wireless Access Point Transmission Power

WAP No.	Radio No.	Current TX Power (dBm)
1	1	15
1	2	8
2	1	15
2	2	8
3	1	15
3	2	8
4	1	15
4	2	8

(c) On the WAP TX POWER menu, select the side panel icon.

1) Make sure that the MAIN MENU is shown.

(d) On the eXW MAINT menu, select the WAP RADIO CONTROL button.

1) Make sure that the WAP RADIO CONTROL screen is shown.

Wireless Access Point Radio Control Screen

WAP No.	Radio	Status	Operating Frequency Channel
1	1	Disabled	36
1	2	Disabled	6
2	1	Disabled	48
2	2	Disabled	11
3	1	Disabled	40
3	2	Disabled	6
4	1	Disabled	44
4	2	Disabled	11

SUBTASK 44-35-00-710-031

(2) On a wireless enabled Personal Electronic Device (PED), make sure that the applicable Cabin Wireless Access Point (CWAP) SSID is shown in the wireless network connection list.

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SIA 001-014 (Continued)

- (a) Connect the applicable PED to the applicable CWAP SSID.

NOTE: The x is the WAP number and the y is the radio frequency for the SSID.

Wireless Access Point Connection List

WAP No.	Radio	WAPxStreamy SSID
1	1	WAP1Stream5
1	2	WAP1Stream2.4
2	1	WAP2Stream5
2	2	WAP2Stream2.4
3	1	WAP3Stream5
3	2	WAP3Stream2.4
4	1	WAP4Stream5
4	2	WAP4Stream2.4

SUBTASK 44-35-00-710-032

- (3) On the wireless enabled PED, enter the web address: api.inflightpanasonic.aero/portal' in the applicable web browser.

- (a) Make sure that the web page is shown in the web browser.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-850-053

- (1) Set the overhead panel P5-13, IFE/PASS SEAT switch to OFF.

———— **END OF TASK** ————

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BROADBAND CONTROL PANEL - REMOVAL/INSTALLATION

1. **General**

- A. This procedure has these tasks:
- (1) Broadband Control Panel Removal
 - (2) Broadband Control Panel Installation.

TASK 44-35-01-000-801

2. **Broadband Control Panel Removal**

(Figure 401 and Figure 402)

A. **General**

- (1) This task has instructions to remove the Broadband Control Panel in the P5 overhead panel.

B. **References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. **Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. **Prepare for the Broadband Control Panel Removal**

SUBTASK 44-35-01-860-001

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
D	13	C04076	BROADBAND/WIFI CONTROL

SUBTASK 44-35-01-910-001



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. **Broadband Control Panel Removal**

SUBTASK 44-35-01-020-001

- (1) Loosen the four quarter-turn fasteners [2] that secure the broadband control panel [1] to the P5 overhead panel.

SUBTASK 44-35-01-020-002

- (2) Pull the broadband control panel [1] from the P5 overhead panel.

SUBTASK 44-35-01-020-003

- (3) Disconnect the electrical connector [3] from the broadband control panel [1].

SUBTASK 44-35-01-020-004

- (4) Remove the broadband control panel [1] from the P5 overhead panel.

————— **END OF TASK** —————

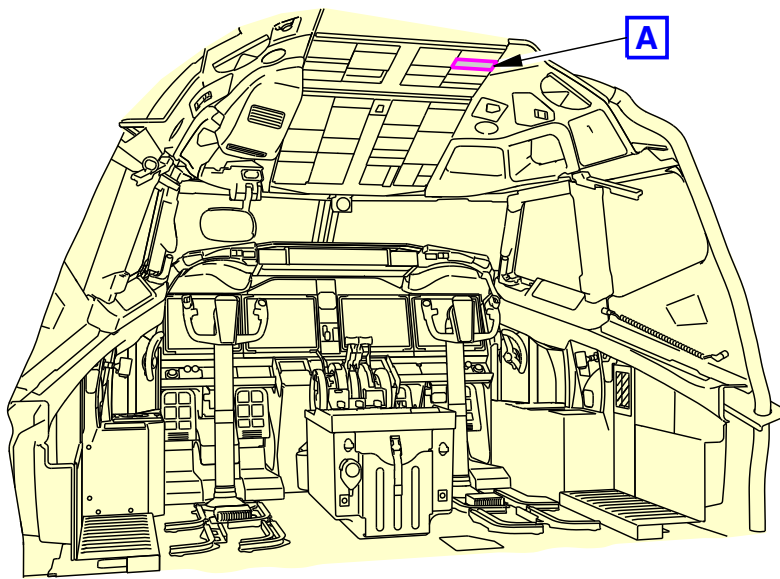
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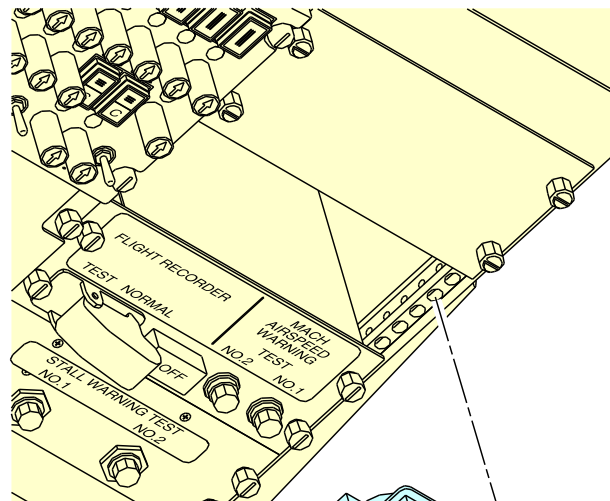
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FWD
↙



[3] ELECTRICAL
CONNECTOR

[1] BROADBAND
CONTROL
PANEL

FWD
↙

A

[2] QUARTER-TURN
FASTENER
(4 LOCATIONS)

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Broadband Control Panel Installation
Figure 401/44-35-01-990-801

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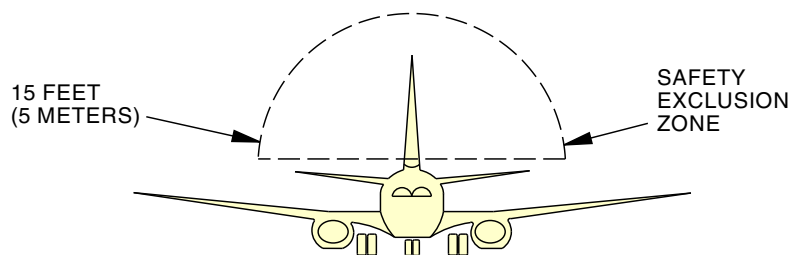
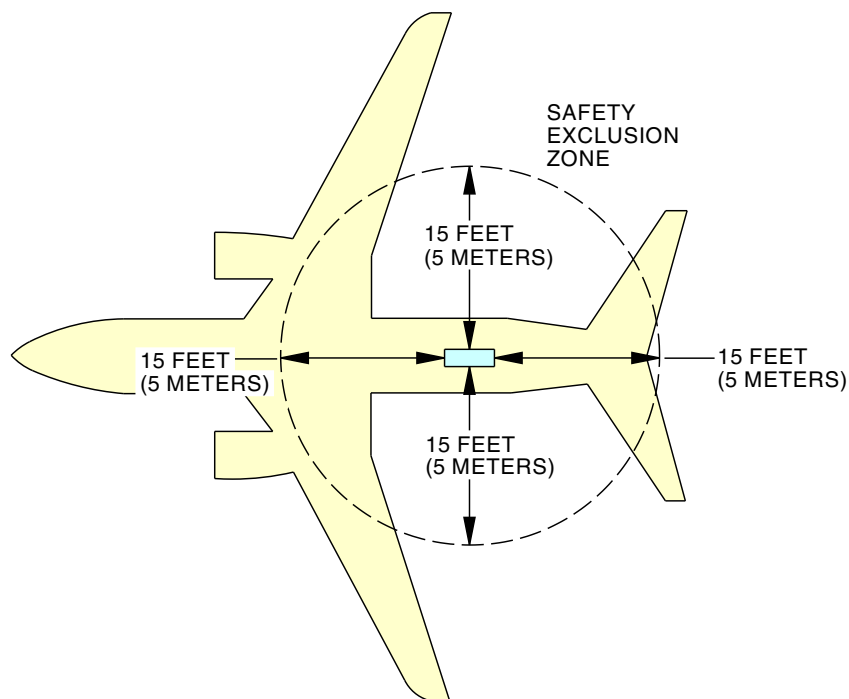
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RF Safety Exclusion Zone
Figure 402/44-35-01-990-803

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TASK 44-35-01-400-801

3. **Broadband Control Panel Installation**

(Figure 401 and Figure 402)

A. General

- (1) This task has instructions to install the Broadband Control Panel in the P5 overhead panel.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-35-00-710-803	Exconnect System Status Test (P/B 501)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Broadband Control Panel Installation

SUBTASK 44-35-01-910-002



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-35-01-420-001

- (2) Install the broadband control panel [1] in the P5 overhead panel.
- (a) Connect the electrical connector [3] to the broadband control panel [1].
 - (b) Push the broadband control panel [1] in the P5 overhead panel.
 - (c) Turn the four quarter-turn fasteners [2] that secure the broadband control panel [1] to the P5 overhead panel.

E. Broadband Control Panel Installation Test

SUBTASK 44-35-01-860-002

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
D	13	C04076	BROADBAND/WIFI CONTROL

SUBTASK 44-35-01-980-003



MAKE SURE THAT PERSONNEL STAY A MINIMUM OF 15 FEET (5 METERS) FROM THE BROADBAND ANTENNA ON THE AIRPLANE WHILE THE BROADBAND COMMUNICATION SYSTEM IS ON. IF YOU DO NOT OBEY, THE RADIO FREQUENCY (RF) ENERGY CAN CAUSE INJURIES TO PERSONNEL.

- (2) Set the overhead panel P5-99, BROADBAND CONTROL PANEL, switch to ON.
- (a) Make sure that the switch guard is closed.
 - (b) Make sure that the Forward Attendant Control Panel (ACP), Wi-Fi power is set to ON.

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SUBTASK 44-35-01-710-003

(3) Do this task: Exconnect System Status Test, TASK 44-35-00-710-803.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-01-980-001

(1) Make sure that the overhead panel P5-99, BROADBAND CONTROL PANEL switch is OFF.

SUBTASK 44-35-01-980-002

(2) Make sure that the overhead panel P5-13, IFE/PASS SEAT switch is OFF.

———— **END OF TASK** ————

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FILE SERVER - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

- (1) File Server Removal
- (2) File Server Installation.

TASK 44-35-06-000-801

2. File Server Removal

(Figure 401)

A. General

- (1) This task has instructions to remove the file server from the equipment rack.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 401)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right

D. Access Panels

Number	Name/Location
822	Aft Cargo Door

E. Prepare for the Removal

SUBTASK 44-35-06-010-001

- (1) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 44-35-06-010-002

- (2) Open the applicable access panel for the equipment rack.

SUBTASK 44-35-06-860-001

- (3) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	12	C04075	CWAP/SERVER

SUBTASK 44-35-06-910-001



DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

- (4) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.



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F. File Server Removal

SUBTASK 44-35-06-020-001



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Remove the file server [1] (TASK 20-10-07-000-801).

———— **END OF TASK** ————

EFFECTIVITY
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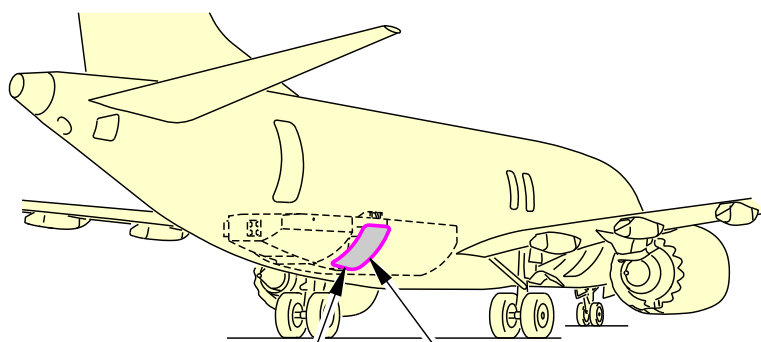
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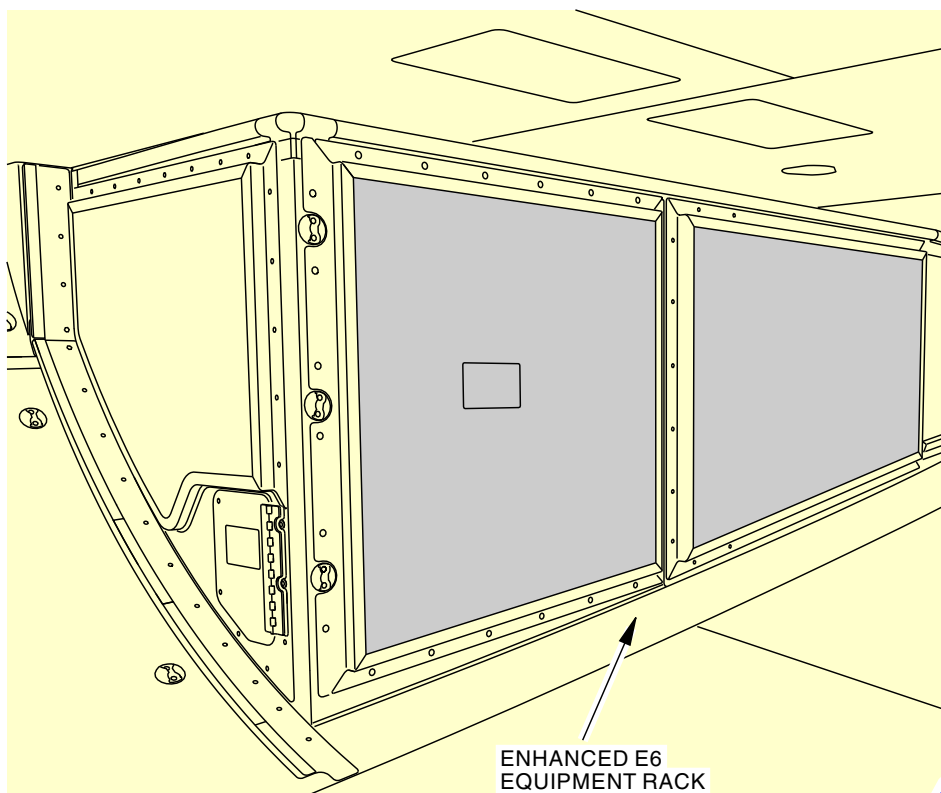
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ENHANCED E6
EQUIPMENT RACK

AFT CARGO
DOOR, 822

A



ENHANCED E6
EQUIPMENT RACK

B



ENHANCED E6 EQUIPMENT RACK

A

2545819 S0000604955_V2

File Server Installation
Figure 401/44-35-06-990-801 (Sheet 1 of 3)

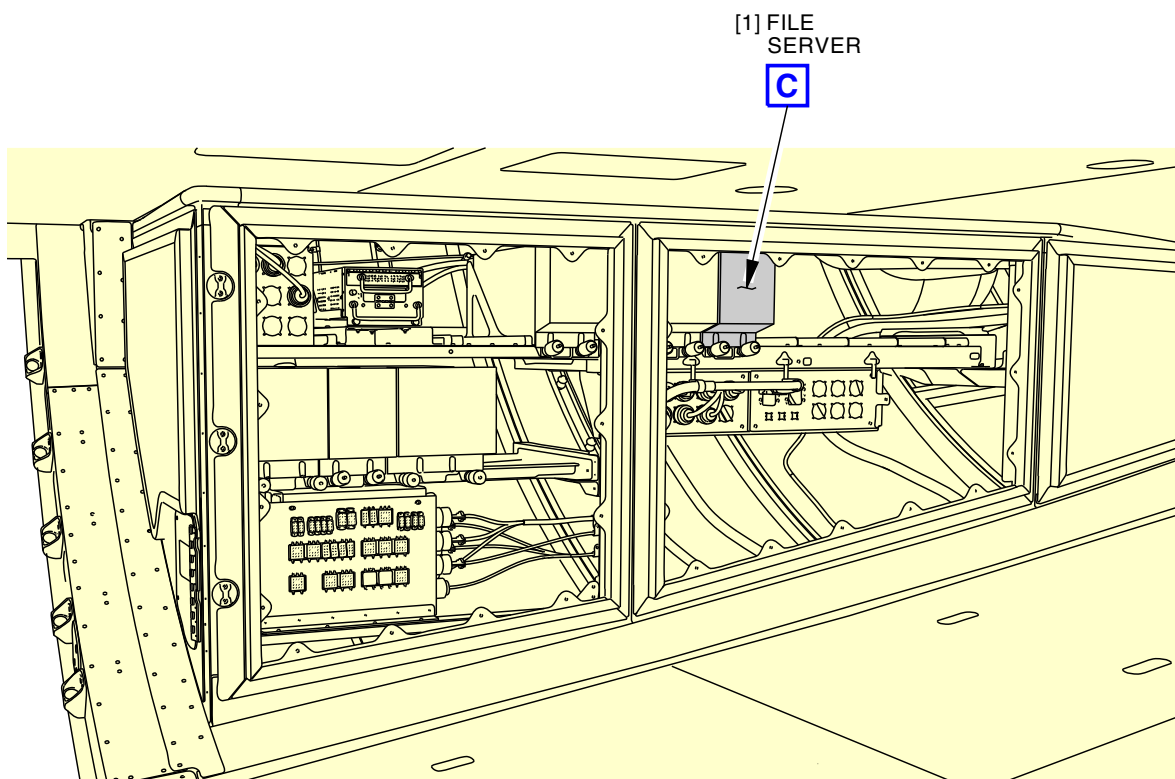
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**ENHANCED E6 EQUIPMENT RACK
(ACCESS DOORS REMOVED)**

[B]

2545822 S0000604956_V2

File Server Installation
Figure 401/44-35-06-990-801 (Sheet 2 of 3)

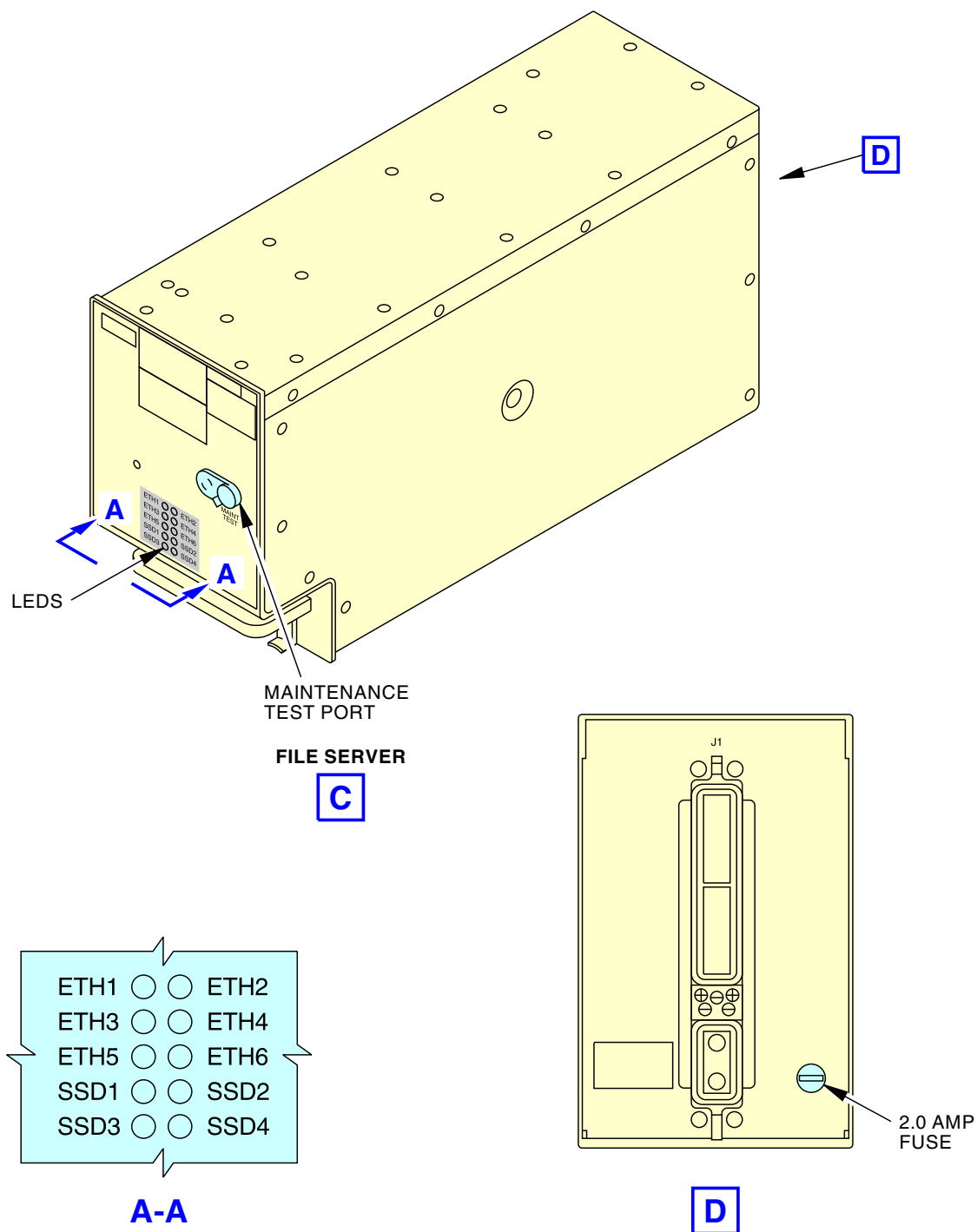
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File Server Installation
Figure 401/44-35-06-990-801 (Sheet 3 of 3)



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TASK 44-35-06-400-801

3. **File Server Installation**

(Figure 401)

A. General

- (1) This task has instructions to install the file server in the equipment rack.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 401)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-35-00-470-802	Load Satellite Coverage or Portal Content (P/B 201)
44-35-00-470-803	Load Media and Content (P/B 201)
44-35-00-710-804	Exconnect Intranet Connectivity Test (P/B 501)
44-35-00-740-801	Exconnect Quick Test (BITE) (P/B 501)
44-35-00-860-805	System Configuration Check (P/B 201)

C. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right

D. Access Panels

Number	Name/Location
822	Aft Cargo Door

E. File Server Installation

SUBTASK 44-35-06-910-002



DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802

SUBTASK 44-35-06-420-001



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Install the file server [1] (TASK 20-10-07-400-801).

F. File Server Installation Test

SUBTASK 44-35-06-860-002

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
D	12	C04075	CWAP/SERVER

SUBTASK 44-35-06-860-003

- (2) Do this task: System Configuration Check, TASK 44-35-00-860-805.



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SUBTASK 44-35-06-470-001

- (3) Do these tasks:
- (a) Load Satellite Coverage or Portal Content, TASK 44-35-00-470-802.
 - (b) Load Media and Content, TASK 44-35-00-470-803.

SUBTASK 44-35-06-710-001

- (4) Do this task: Exconnect Intranet Connectivity Test, TASK 44-35-00-710-804.

SUBTASK 44-35-06-740-001

- (5) Do this task: Exconnect Quick Test (BITE), TASK 44-35-00-740-801.
- (a) Make sure that no faults are reported.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-06-410-001

- (1) Close the applicable access panel for the equipment rack.

SUBTASK 44-35-06-410-002

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

————— **END OF TASK** —————

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BROADBAND CONTROLLER - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

- (1) Broadband Controller Removal
- (2) Broadband Controller Installation.

TASK 44-35-08-000-801

2. Broadband Controller Removal

(Figure 401)

A. **General**

- (1) This task has instructions to remove the broadband controller from the equipment rack.

B. **References**

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 401)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)

C. **Location Zones**

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right

D. **Access Panels**

Number	Name/Location
822	Aft Cargo Door

E. **Prepare for the Removal**

SUBTASK 44-35-08-010-001

- (1) Open this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

SUBTASK 44-35-08-010-002

- (2) Open the applicable access panel for the equipment rack.

SUBTASK 44-35-08-860-001

- (3) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	9	C04074	BROADBAND 2

SUBTASK 44-35-08-910-001



DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

- (4) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.



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F. Broadband Controller Removal

SUBTASK 44-35-08-020-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Remove the broadband controller [1] (TASK 20-10-07-000-801).

———— **END OF TASK** ————

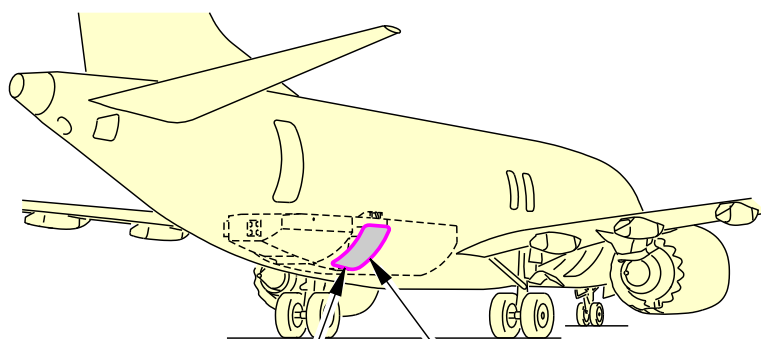
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44-35-08

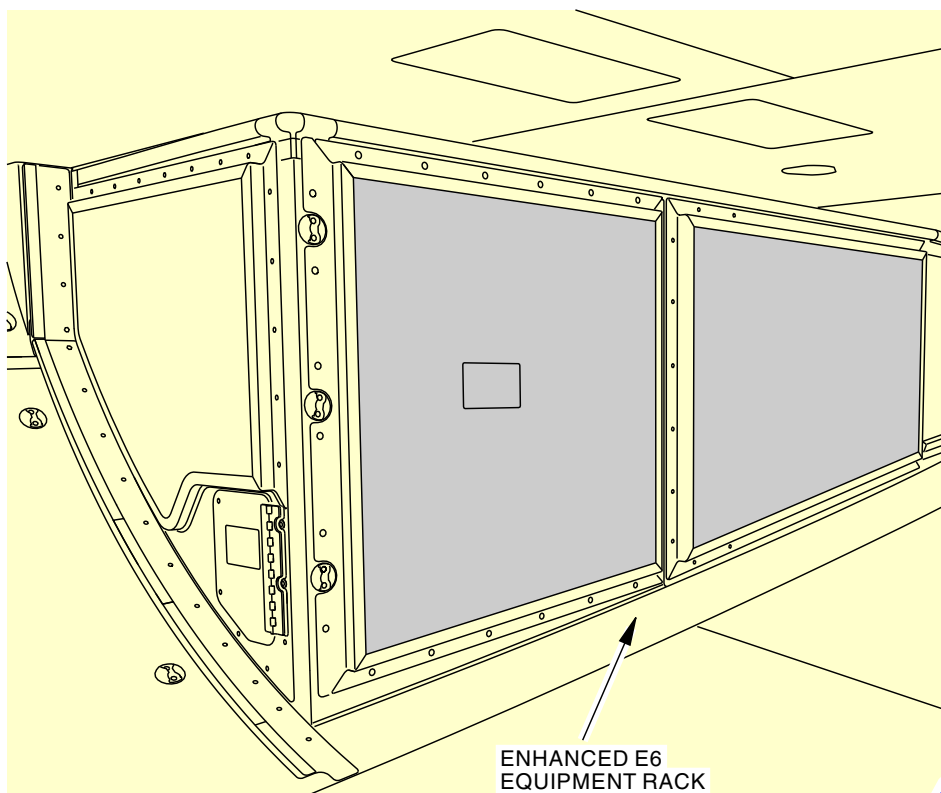
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ENHANCED E6
EQUIPMENT RACK

AFT CARGO
DOOR, 822

A



ENHANCED E6
EQUIPMENT RACK

B

FWD

ENHANCED E6 EQUIPMENT RACK

A

2545819 S0000604955_V2

Broadband Controller Installation
Figure 401/44-35-08-990-801 (Sheet 1 of 3)

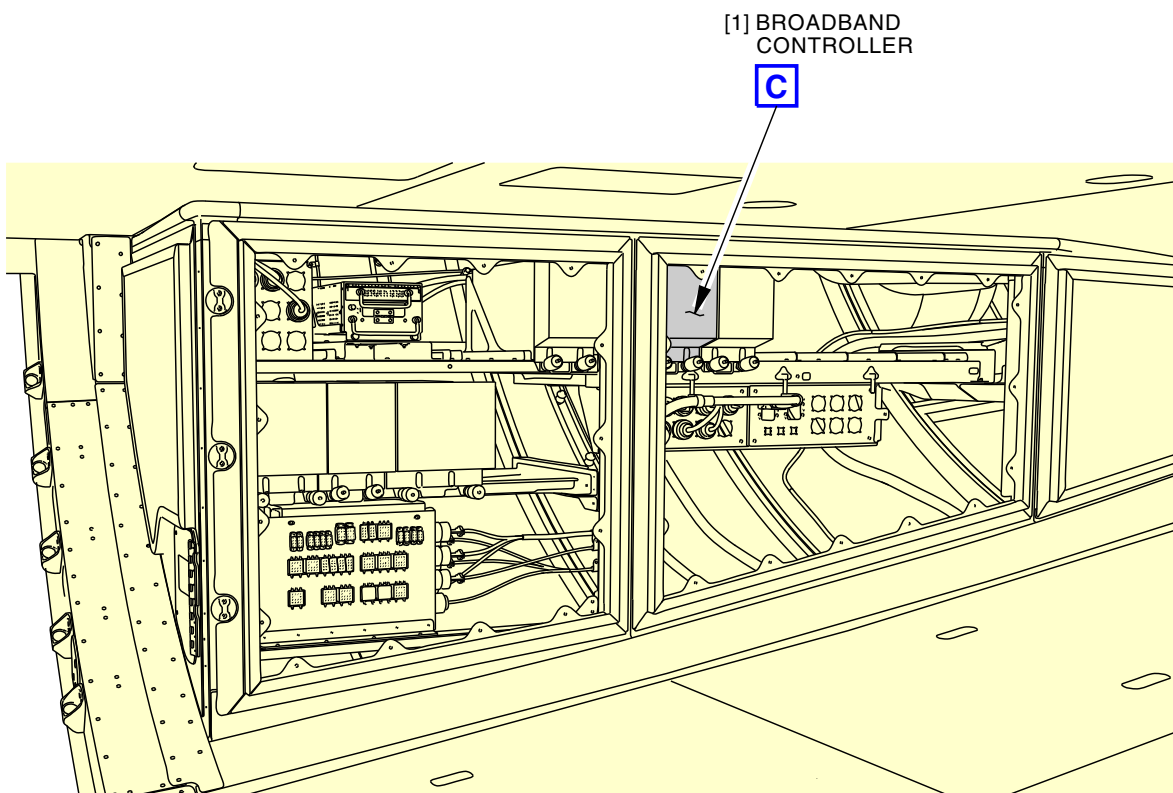
EFFECTIVITY
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**ENHANCED E6 EQUIPMENT RACK
(ACCESS DOORS REMOVED)**

B

2554840 S0000609155_V2

Broadband Controller Installation
Figure 401/44-35-08-990-801 (Sheet 2 of 3)

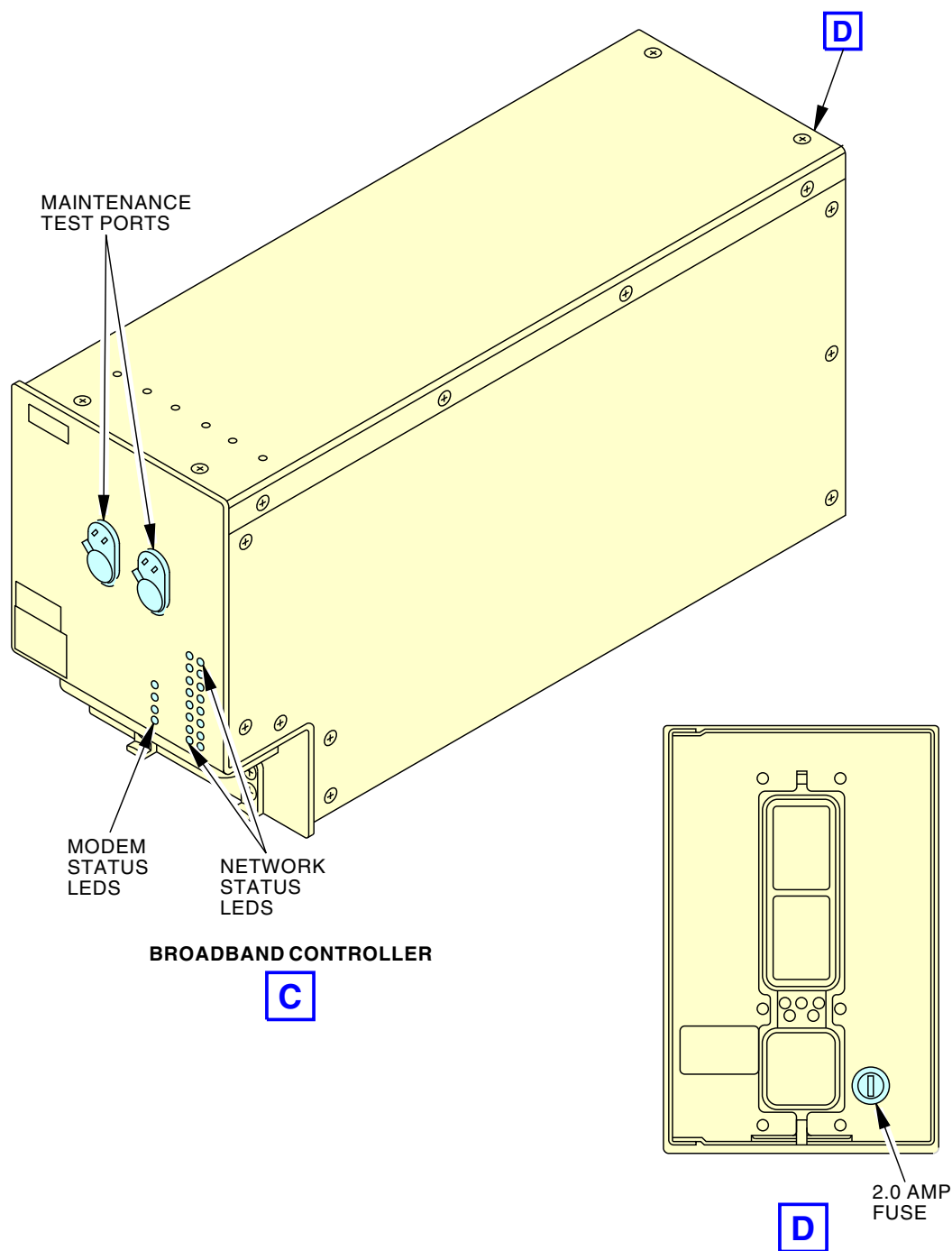
EFFECTIVITY
SIA 015-999

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2546685 S0000605373_V2

Broadband Controller Installation
Figure 401/44-35-08-990-801 (Sheet 3 of 3)

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TASK 44-35-08-400-801

3. **Broadband Controller Installation**

(Figure 401)

A. General

(1) This task has instructions to install the broadband controller in the equipment rack.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 401)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-35-00-470-801	System Software Load (P/B 201)
44-35-00-470-802	Load Satellite Coverage or Portal Content (P/B 201)
44-35-00-470-803	Load Media and Content (P/B 201)
44-35-00-710-804	Exconnect Intranet Connectivity Test (P/B 501)
44-35-00-730-803	Exconnect Connectivity Test (P/B 501)
44-35-00-740-801	Exconnect Quick Test (BITE) (P/B 501)
44-35-00-860-804	Set Maintenance Aircraft Information (P/B 201)
44-35-00-860-805	System Configuration Check (P/B 201)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Broadband controller	44-35-08-01-010	SIA 015-999

D. Location Zones

Zone	Area
146	Aft Cargo Compartment Equipment Bay - Right

E. Access Panels

Number	Name/Location
822	Aft Cargo Door

F. Broadband Controller Installation

SUBTASK 44-35-08-910-002



DO NOT TOUCH THE CIRCUIT CARDS BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO STATIC ELECTRICITY. STATIC ELECTRICITY CAN CAUSE DAMAGE TO THE CIRCUIT CARDS.

(1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802

SUBTASK 44-35-08-420-003



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

(2) Install the broadband controller [1] (TASK 20-10-07-400-801).

EFFECTIVITY
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G. Broadband Controller Installation Test

SUBTASK 44-35-08-860-002

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	9	C04074	BROADBAND 2

SUBTASK 44-35-08-860-003

- (2) Do this task: System Configuration Check, TASK 44-35-00-860-805.

SUBTASK 44-35-08-860-004

- (3) Do this task: Set Maintenance Aircraft Information, TASK 44-35-00-860-804.

SUBTASK 44-35-08-470-001

- (4) Do this task: System Software Load, TASK 44-35-00-470-801.

SUBTASK 44-35-08-470-002

- (5) Do these tasks:

- (a) Load Satellite Coverage or Portal Content, TASK 44-35-00-470-802.
- (b) Load Media and Content, TASK 44-35-00-470-803.

SUBTASK 44-35-08-740-001

- (6) Do this task: Exconnect Quick Test (BITE), TASK 44-35-00-740-801.

- (a) Make sure that no faults are reported.

SUBTASK 44-35-08-710-003

- (7) Do this task: Exconnect Intranet Connectivity Test, TASK 44-35-00-710-804.

SUBTASK 44-35-08-710-002

- (8) Do the antenna commissioning and alignment test (TASK 44-35-00-730-803).

SUBTASK 44-35-08-710-001

- (9) Do these steps to check the KU Antenna IN NETWORK (TASK 44-35-00-730-803):

- (a) On the MAIN menu, push the MAINTENANCE button.
- (b) On the MAINTENANCE menu, push the EXCONNECT MAINT button.
- (c) On the EXCONNECT MAINT menu, push the SATELLITE STATUS button.
- (d) Make sure that the MODEM STATUS reports IN NETWORK.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-08-410-001

- (1) Close the applicable access panel for the equipment rack.

SUBTASK 44-35-08-410-002

- (2) Close this access panel:

<u>Number</u>	<u>Name/Location</u>
822	Aft Cargo Door

————— END OF TASK —————



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POWER SUPPLY UNIT - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Power Supply Unit Removal
 - (2) Power Supply Unit Installation.

TASK 44-35-09-000-801

2. Power Supply Unit Removal

(Figure 401)

A. **General**

- (1) This task has instructions to remove the power supply unit in the overhead crown area.

B. **References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
25-21-45-000-801	Main Ceiling Panel - Removal (P/B 401)

C. **Location Zones**

Zone	Area
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

D. **Prepare for the Removal**

SUBTASK 44-35-09-860-001

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	8	C04073	BROADBAND 1

SUBTASK 44-35-09-010-001

- (2) To get access to the power supply unit [1], remove the applicable main ceiling panel (TASK 25-21-45-000-801).

SUBTASK 44-35-09-910-001



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (3) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. **Power Supply Unit Removal**

SUBTASK 44-35-09-020-001

- (1) Remove the power supply unit [1]:
 - (a) Disconnect the electrical connector [2], electrical connector [3], and electrical connector [4] from the power supply unit [1].
 - (b) Disconnect the screw [5], washers [6], and jumper [7] from the power supply unit [1].
 - (c) Remove the nut [8], washer [9], and jumper [7] from the terminal lug.
 - (d) Remove the three screws [10] and three washers [11] that attach the power supply unit [1] to the mounting tray.

EFFECTIVITY
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- (e) Remove the power supply unit [1] from the mounting tray.

———— **END OF TASK** ————

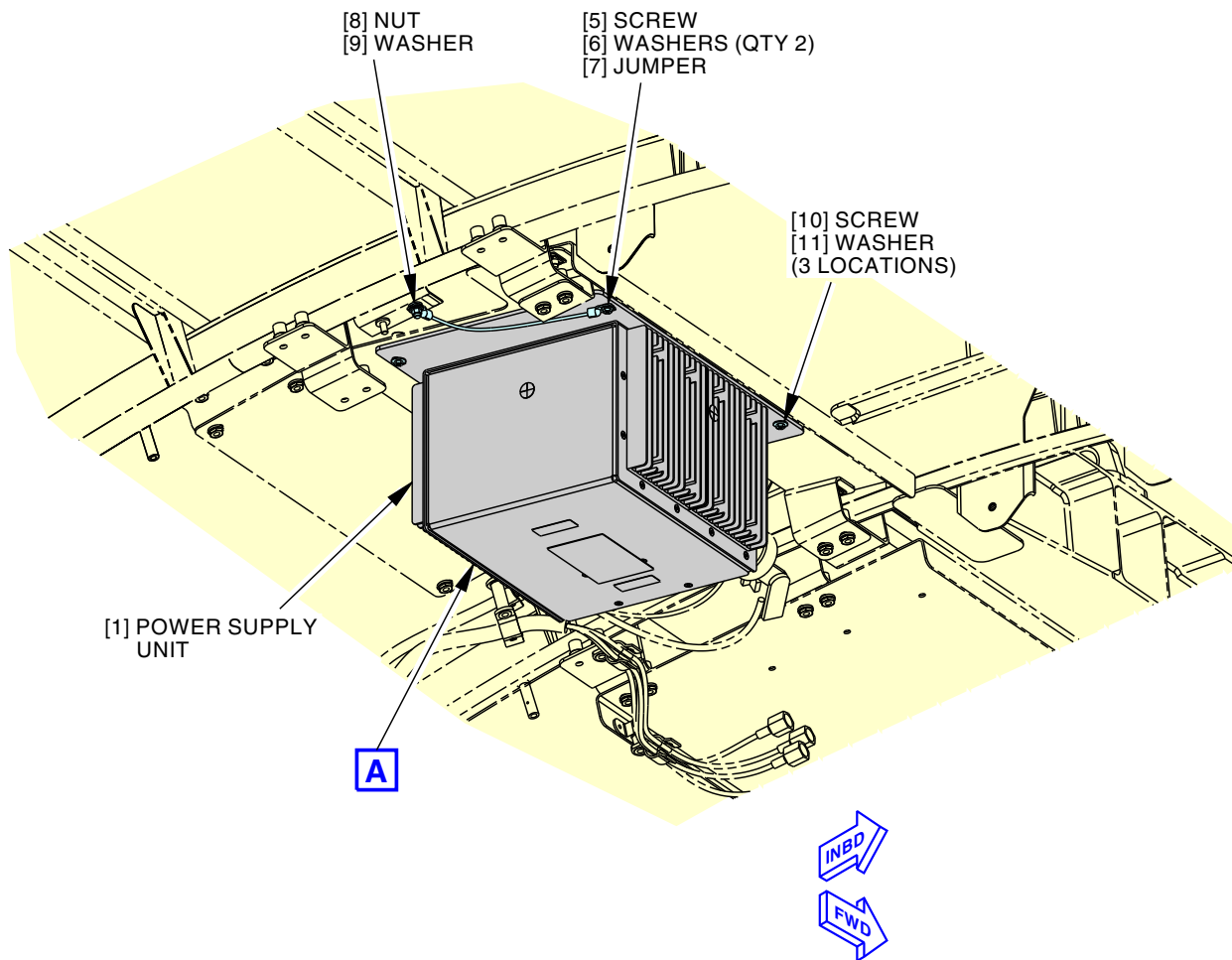
EFFECTIVITY
SIA 015-999

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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2549148 S0000605474_V1

Power Supply Unit Installation
Figure 401/44-35-09-990-801 (Sheet 1 of 2)

EFFECTIVITY
SIA 015-999

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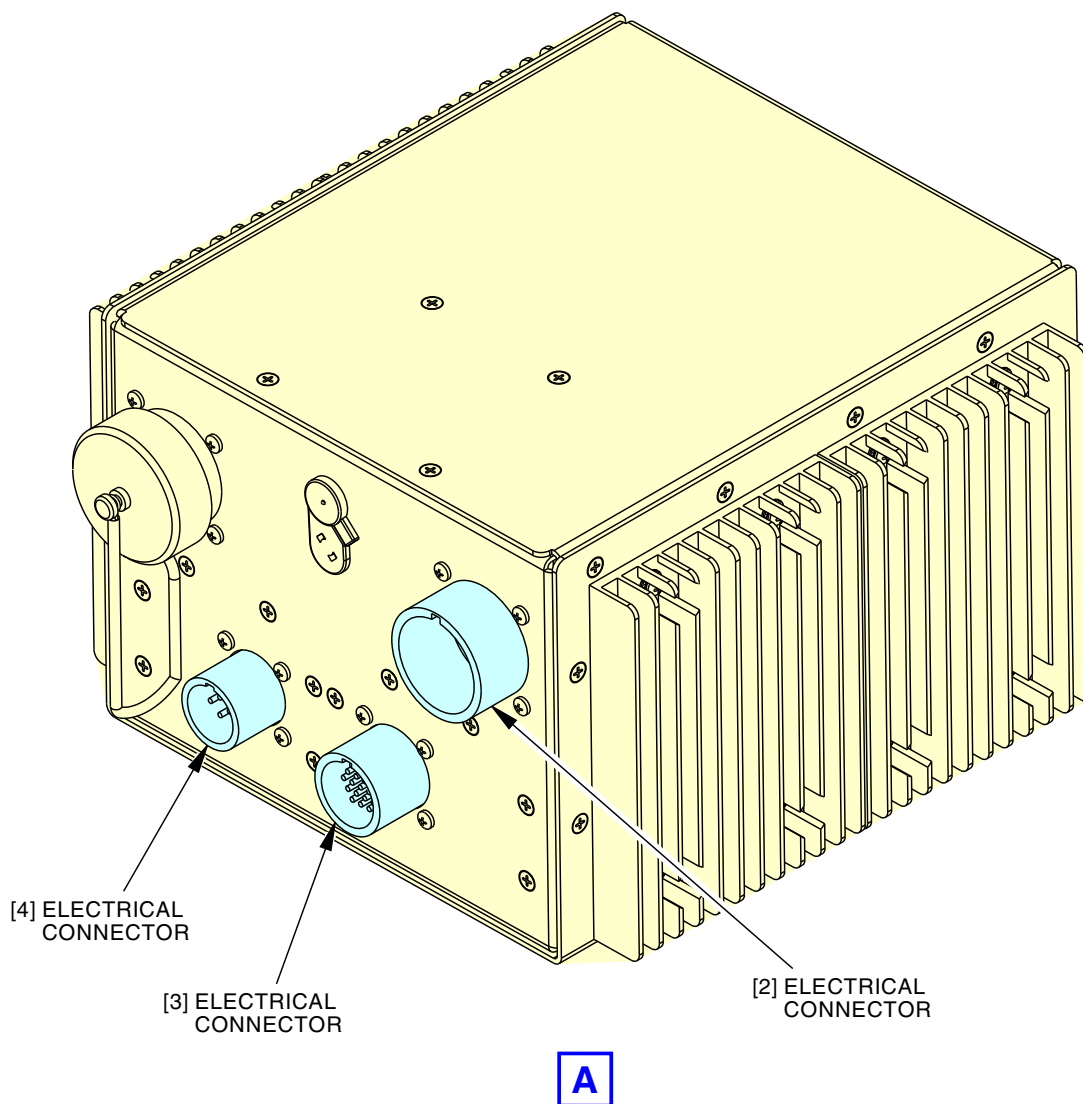
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2549149 S0000605487_V1

Power Supply Unit Installation
Figure 401/44-35-09-990-801 (Sheet 2 of 2)

EFFECTIVITY
SIA 015-999

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TASK 44-35-09-400-801

3. Power Supply Unit Installation

(Figure 401)

A. General

- (1) This task has instructions to install the power supply unit in the overhead crown area.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
25-21-45-400-801	Main Ceiling Panel - Installation (P/B 401)
44-35-00-730-803	Exconnect Connectivity Test (P/B 501)
44-35-00-740-801	Exconnect Quick Test (BITE) (P/B 501)
44-35-00-860-805	System Configuration Check (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt.", which stands for Optional.

Reference	Description
COM-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659

D. Location Zones

Zone	Area
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

E. Power Supply Unit Installation

SUBTASK 44-35-09-910-002



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-35-09-420-003

- (2) Install the power supply unit [1]:
- Put the power supply unit [1] on the mounting tray.
 - Install the three screws [10] and three washers [11] that attach the power supply unit [1] to the mounting tray.
 - Install the nut [8], washer [9], and jumper [7] to the terminal lug.
 - Connect the jumper [7], washers [6], and screw [5] to the power supply unit [1].

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SIA 015-999

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- (e) Measure the resistance between jumper [7] and the terminal lug with an intrinsically safe approved bonding meter, COM-1550 (SWPM 20-20-00, paragraph 21).
 - 1) Make sure that the resistance is 1.0 milliohms or less.
- (f) Connect the electrical connector [2], electrical connector [3], and electrical connector [4] to the power supply unit [1].

F. Power Supply Unit Installation Test

SUBTASK 44-35-09-860-002

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	C04073	BROADBAND 1

SUBTASK 44-35-09-860-003

- (2) Do this task: System Configuration Check, TASK 44-35-00-860-805.

SUBTASK 44-35-09-740-001

- (3) Do this task: Exconnect Quick Test (BITE), TASK 44-35-00-740-801.
 - (a) Make sure that no faults are reported.

SUBTASK 44-35-09-710-001

- (4) Do these steps to check the KU Antenna IN NETWORK (TASK 44-35-00-730-803):
 - (a) On the MAIN menu, push the MAINTENANCE button.
 - (b) On the MAINTENANCE menu, push the EXCONNECT MAINT button.
 - (c) On the EXCONNECT MAINT menu, push the SATELLITE STATUS button.
 - (d) Make sure that the MODEM STATUS reports IN NETWORK.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-09-410-001

- (1) Install the applicable main ceiling panel (TASK 25-21-45-400-801).

———— **END OF TASK** ————



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BROADBAND ANTENNA - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Single Panel Antenna Removal
 - (2) Single Panel Antenna Installation.
- B. The broadband antenna refers to the single panel antenna.

TASK 44-35-10-000-802

2. Single Panel Antenna Removal

(Figure 401, Figure 402)

A. General

- (1) This task has instructions to remove the single panel antenna from the adapter plate assembly.
- NOTE: The single panel antenna weight is 70 lb (32 kg).

B. References

Reference	Title
20-10-44-000-801	Lockwire, Cotter Pins, and Lockrings - Removal (P/B 401)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
53-54-00-000-801	Broadband Radome Removal (P/B 401)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
SPL-15117	Removal/Installation Equipment - Broadband Antenna Lift Assy C44001-56 (included in C44001-55 Kit) / C44001-61 (included in C44001-58 Kit) Part #: C44001-58 Supplier: 81205 Opt Part #: C44001-55 Supplier: 81205
SPL-16440	Assembly - Fixture, Handling Part #: 135349 Supplier: 0FF57

D. Location Zones

Zone	Area
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

E. Prepare for the Removal

SUBTASK 44-35-10-860-004

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	8	C04073	BROADBAND 1

SUBTASK 44-35-10-010-001

- (2) To get access to the single panel antenna [1], remove the broadband radome (TASK 53-54-00-000-801).

EFFECTIVITY
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SUBTASK 44-35-10-910-003



WARNING

BE CAREFUL WHEN YOU MOVE THE COMPONENT. THE COMPONENT IS HEAVY. INJURIES TO PERSONS CAN OCCUR.



CAUTION

DO A VISUAL INSPECTION FOR CORROSION OR DAMAGE OF THE LIFTING LUG/ADAPTOR BEFORE YOU LIFT THE ANTENNA. IF THE LIFTING LUG/ADAPTOR HAS CORROSION OR IS DAMAGED, IT CAN FAIL AND CAUSE DAMAGE TO THE AIRPLANE OR EQUIPMENT.



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (3) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

SUBTASK 44-35-10-480-005

- (4) Attach a handling fixture assembly, SPL-16440 to the single panel antenna [1] (Figure 402).
- (a) Install four handling fixture screws [21] that attach the handling fixture assembly, SPL-16440 to the single panel antenna [1].

SUBTASK 44-35-10-480-006

- (5) Attach a broadband antenna removal/installation equipment, C44001-56 or -61, SPL-15117 to the handling fixture assembly, SPL-16440.
- (a) Install two screw pin shackles [22] to the handling fixture assembly, SPL-16440.

F. Single Panel Antenna Removal

SUBTASK 44-35-10-020-014

- (1) Remove and retain the screws [7] and clamps [8] from the adapter plate assembly.

SUBTASK 44-35-10-020-015

- (2) Disconnect the P6 connector [20] and P5 connector [19] from the airplane.
- (a) Remove and retain the screw [9] and clamp [10] from the adapter plate assembly.

SUBTASK 44-35-10-020-016

- (3) Disconnect the lockwire between the RX-P4 connector [18] and TX-P3 connector [17] (TASK 20-10-44-000-801).

SUBTASK 44-35-10-020-017

- (4) Disconnect the RX-P4 connector [18] and TX-P3 connector [17] from the airplane.

SUBTASK 44-35-10-020-018

- (5) Disconnect the A2-J3 connector [16] from the bracket.

SUBTASK 44-35-10-020-019

- (6) Disconnect the A1-P1 connector [15] from the LTG arrester cable assembly.

SUBTASK 44-35-10-010-002

- (7) Remove and retain the four fasteners [11] and antenna cable cover [12] on the single panel antenna [1].
- (a) Disconnect the RX-P1 connector [13] and TX-P2 connector [14] from the single panel antenna [1].

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SUBTASK 44-35-10-020-020

- (8) Disconnect the nut [4], washer [5], and bonding jumper [6] from the adapter plate.

SUBTASK 44-35-10-020-021



CAUTION

DO NOT ROTATE ANTENNA APERTURE. DAMAGE TO THE ANTENNA CAN OCCUR.

- (9) Remove the single panel antenna [1]:
- (a) Remove eight bolts [2] and eight washers [3] from the single panel antenna [1].
 - (b) Carefully, lift the single panel antenna [1] from the adapter plate assembly.

———— **END OF TASK** ————

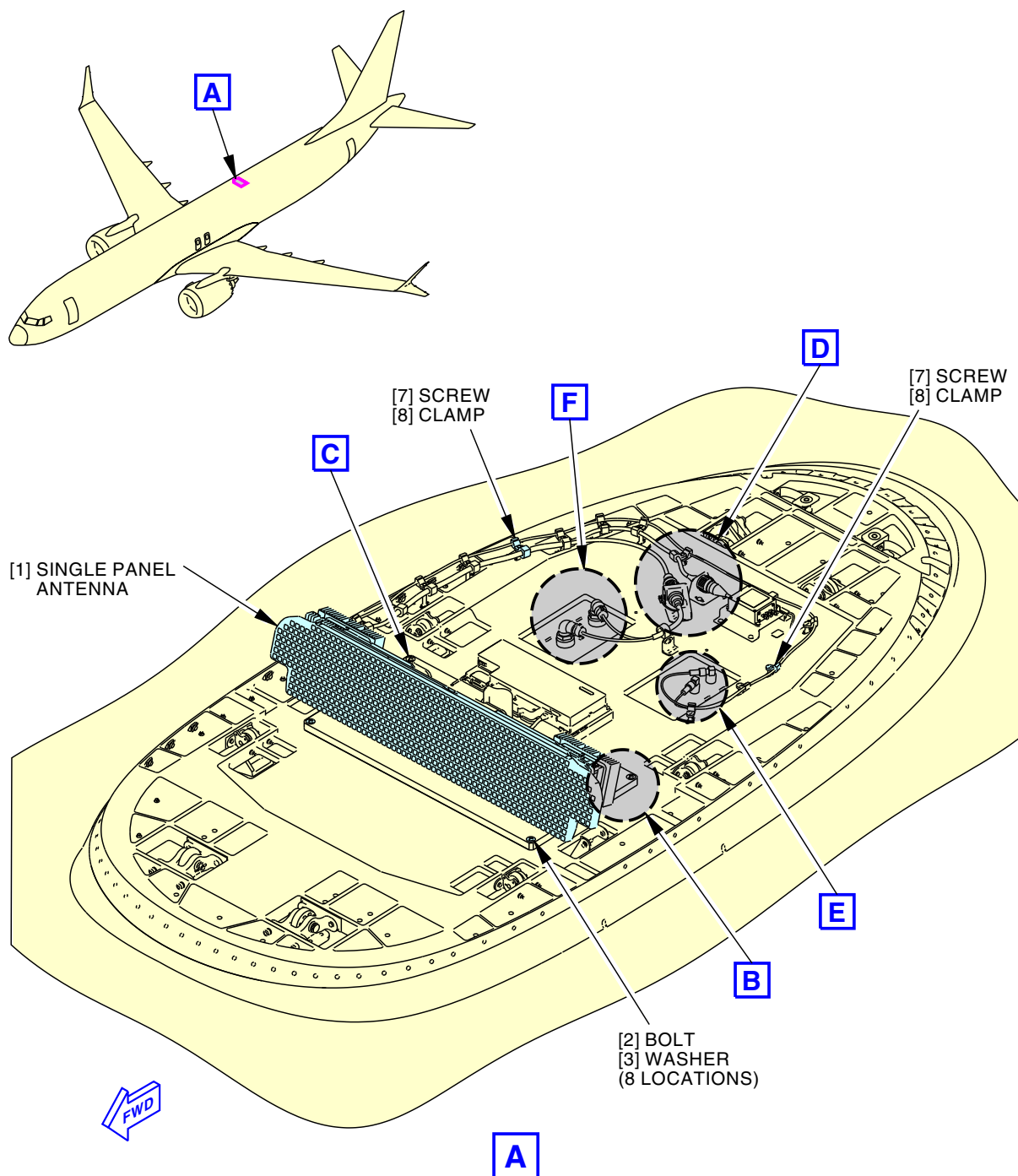
EFFECTIVITY
SIA 015-999

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Single Panel Antenna Installation
Figure 401/44-35-10-990-803 (Sheet 1 of 3)

EFFECTIVITY
SIA 015-999

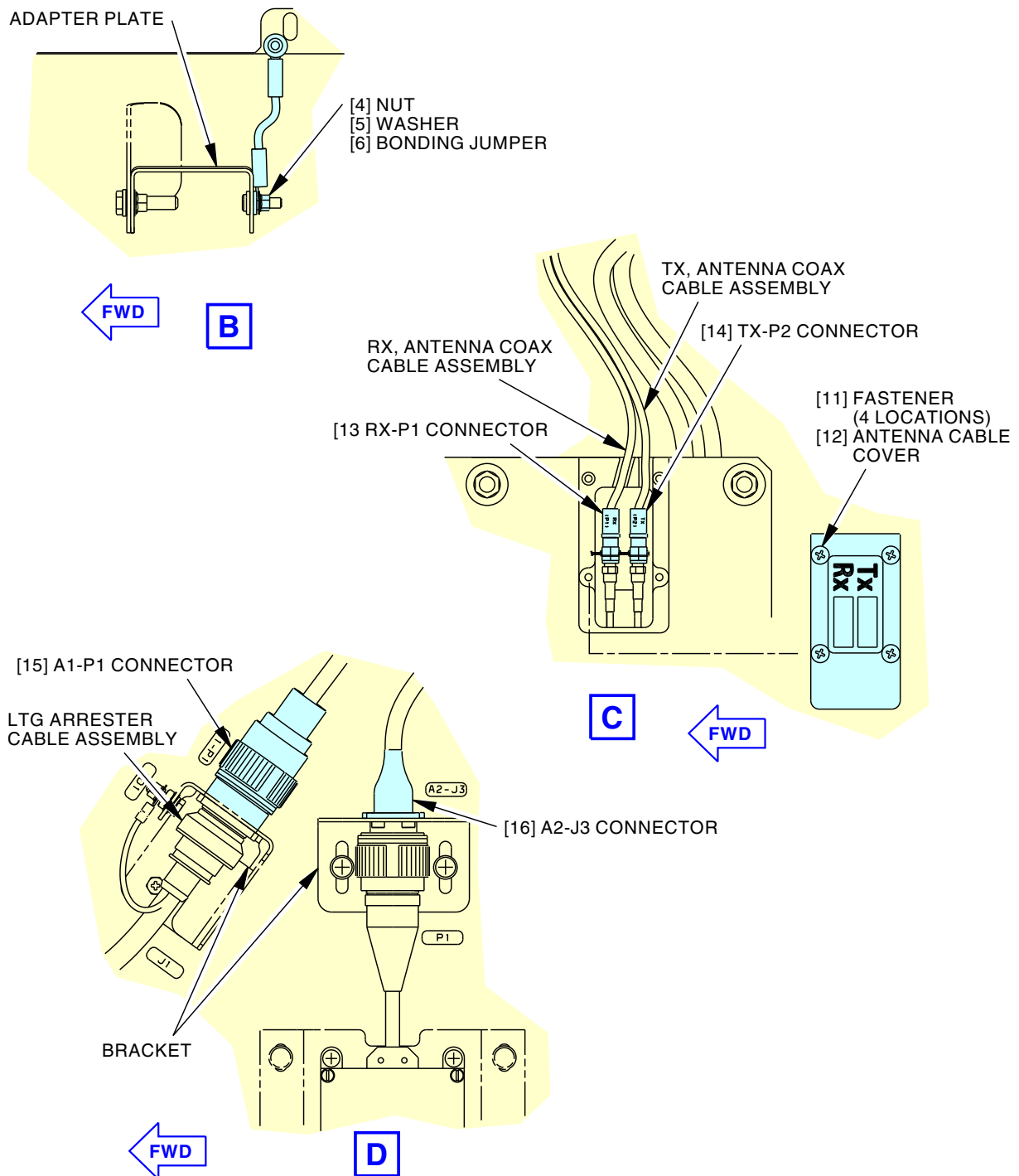
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Single Panel Antenna Installation
Figure 401/44-35-10-990-803 (Sheet 2 of 3)

EFFECTIVITY
SIA 015-999

D633AM101-SIA

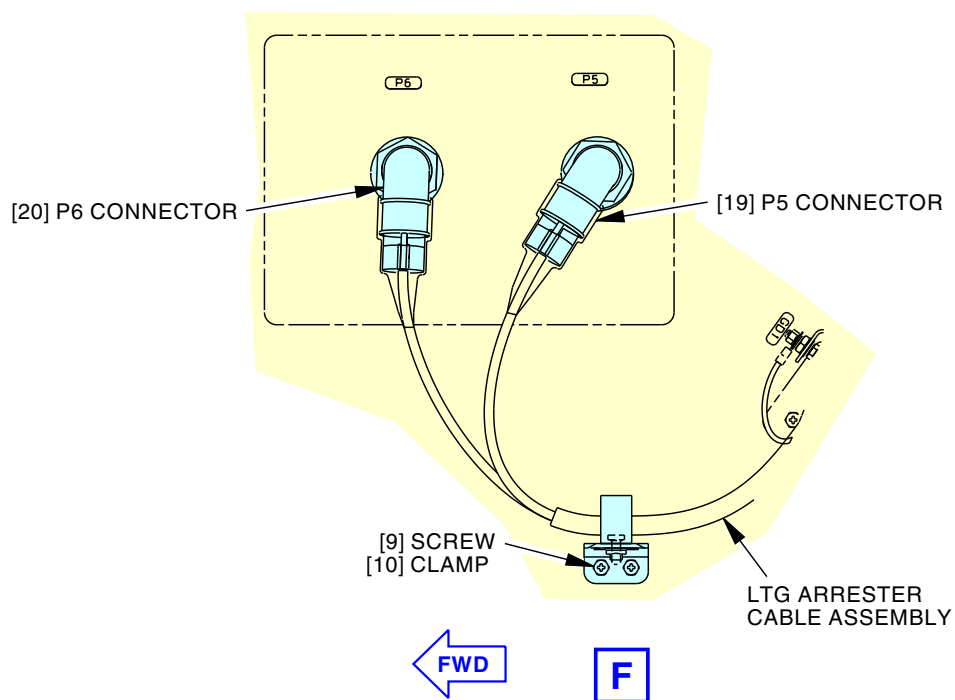
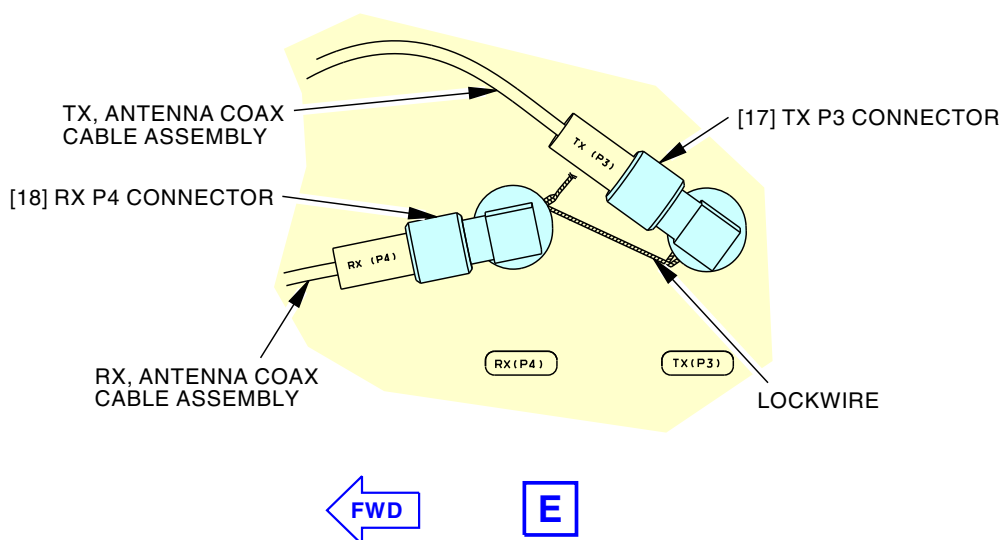
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Single Panel Antenna Installation
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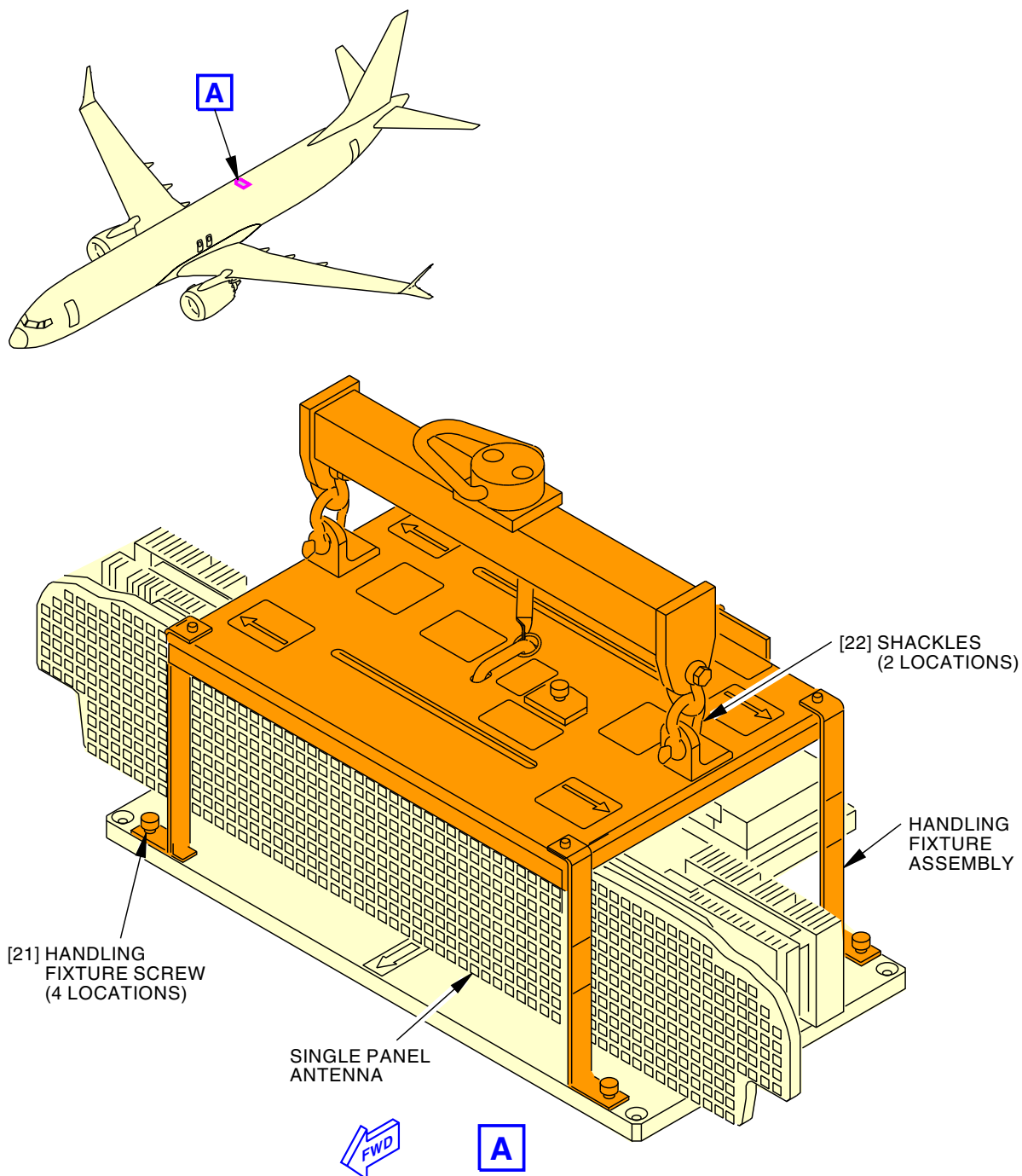
EFFECTIVITY
SIA 015-999

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ECCN 9E991 BOEING PROPRIETARY - See title page for details

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2828234 S0000655192_V1

Single Panel Antenna Handling Fixture Assembly
Figure 402/44-35-10-990-804

EFFECTIVITY
SIA 015-999

D633AM101-SIA

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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TASK 44-35-10-400-802

3. Single Panel Antenna Installation

(Figure 401, Figure 402)

A. General

- (1) This task has instructions to install the single panel antenna to the adapter plate assembly.

NOTE: The single panel antenna weight is 70 lb (32 kg).

B. References

Reference	Title
20-10-44-400-801	Lockwire, Cotter Pins, and Lockrings - Installation (P/B 401)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-35-00-730-803	Exconnect Connectivity Test (P/B 501)
44-35-00-740-801	Exconnect Quick Test (BITE) (P/B 501)
44-35-00-860-805	System Configuration Check (P/B 201)
53-54-00-400-801	Broadband Radome Installation (P/B 401)
53-54-00-400-802	Adapter Plate Assembly Installation (P/B 401)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659
SPL-15117	Removal/Installation Equipment - Broadband Antenna Lift Assy C44001-56 (included in C44001-55 Kit) / C44001-61 (included in C44001-58 Kit) Part #: C44001-58 Supplier: 81205 Opt Part #: C44001-55 Supplier: 81205
SPL-16440	Assembly - Fixture, Handling Part #: 135349 Supplier: 0FF57

D. Consumable Materials

Reference	Description	Specification
G01048	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8128 mm) Diameter	NASM20995

E. Location Zones

Zone	Area
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

EFFECTIVITY
SIA 015-999

D633AM101-SIA

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F. Prepare for the Installation

SUBTASK 44-35-10-420-019

- (1) If it is necessary, install the adapter plate assembly (TASK 53-54-00-400-802).

SUBTASK 44-35-10-910-004



BE CAREFUL WHEN YOU MOVE THE COMPONENT. THE COMPONENT IS HEAVY. INJURIES TO PERSONS CAN OCCUR.



DO A VISUAL INSPECTION FOR CORROSION OR DAMAGE OF THE LIFTING LUG/ADAPTOR BEFORE YOU LIFT THE ANTENNA. IF THE LIFTING LUG/ADAPTOR HAS CORROSION OR IS DAMAGED, IT CAN FAIL AND CAUSE DAMAGE TO THE AIRPLANE OR EQUIPMENT.



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-35-10-480-007

- (3) Attach a handling fixture assembly, SPL-16440 to the single panel antenna [1] (Figure 402).
- (a) Install four handling fixture screws [21] that attach the handling fixture assembly, SPL-16440 to the single panel antenna [1].

SUBTASK 44-35-10-480-008

- (4) Attach a broadband antenna removal/installation equipment, C44001-56 or -61, SPL-15117 to the handling fixture assembly, SPL-16440.
- (a) Install two screw pin shackles [22] to the handling fixture assembly, SPL-16440.

G. Single Panel Antenna Installation

SUBTASK 44-35-10-420-020



DO NOT ROTATE ANTENNA APERTURE. DAMAGE TO THE ANTENNA CAN OCCUR.

- (1) Install the single panel antenna [1]:
- (a) Carefully, lift the single panel antenna [1] to the adapter plate assembly.
- 1) Make sure that the arrow label points forward.
- (b) Install the eight bolts [2] and eight washers [3] to the single panel antenna [1].
- 1) Tighten each bolt [2] to 78 in-lb (9 N·m) - 82 in-lb (9 N·m).

SUBTASK 44-35-10-420-021

- (2) Connect the bonding jumper [6], washer [5], and nut [4] to the adapter plate assembly.
- (a) Measure the resistance between the bonding jumper [6] and adapter plate with an intrinsically safe approved bonding meter, COM-1550 (SWPM 20-20-00, paragraph 21).
- 1) Make sure that the resistance is 1.0 milliohms or less.



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SUBTASK 44-35-10-420-022

- (3) Connect the TX-P2 connector [14] and RX-P1 connector [13] to the single panel antenna [1].
 - (a) Make sure that the antenna cable cover [12] is removed.
 - (b) Tighten the RX-P1 connector [13] and TX-P2 connector [14] to 7 in-lb (1 N·m) to 10 in-lb (1 N·m).

SUBTASK 44-35-10-420-023

- (4) Put the antenna cable cover [12] and four fasteners [11] on the single panel antenna [1].
 - (a) Tighten the fasteners [11] to 10 in-lb (1 N·m) - 12 in-lb (1 N·m).

SUBTASK 44-35-10-420-024

- (5) Connect the A1-P1 connector [15] to the LTG arrester cable assembly.
 - (a) Make sure that the red band is not shown.

SUBTASK 44-35-10-420-025

- (6) Connect the A2-J3 connector [16] to the bracket.
 - (a) Tighten the A2-J3 connector [16] to 12 in-lb (1 N·m) - 18 in-lb (2 N·m).

SUBTASK 44-35-10-420-026

- (7) Connect the TX-P3 connector [17] and RX-P4 connector [18] to the airplane.
 - (a) Tighten the RX-P4 connector [18] to 15 in-lb (2 N·m) - 17 in-lb (2 N·m).
 - (b) Tighten the TX-P3 connector [17] to 6 in-lb (1 N·m) - 10 in-lb (1 N·m).

SUBTASK 44-35-10-420-027

- (8) Connect MS20995C32 lockwire, G01048 between the TX-P3 connector [17] and RX-P4 connector [18] (TASK 20-10-44-400-801).

SUBTASK 44-35-10-420-028

- (9) Connect the P5 connector [19] and P6 connector [20] to the airplane.
 - (a) Make sure that the red band is not shown.
 - (b) Install the screw [9] and clamp [10] to the adapter plate assembly.

SUBTASK 44-35-10-420-029

- (10) Install the screws [7] and clamps [8] to the adapter plate assembly.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-10-080-004

- (1) Disconnect the broadband antenna removal/installation equipment, C44001-56 or -61, SPL-15117 from the handling fixture assembly, SPL-16440.
 - (a) Remove the two screw pin shackles [22] from the handling fixture assembly, SPL-16440.

SUBTASK 44-35-10-080-005

- (2) Disconnect the handling fixture assembly, SPL-16440 from the single panel antenna [1].
 - (a) Remove the four handling fixture screws [21] that attach the handling fixture assembly, SPL-16440 to the single panel antenna [1].

SUBTASK 44-35-10-080-006

- (3) Remove the handling fixture assembly, SPL-16440 from the single panel antenna [1].

SUBTASK 44-35-10-420-030

- (4) Install the broadband radome (TASK 53-54-00-400-801).



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I. Single Panel Antenna Installation Test

SUBTASK 44-35-10-860-005

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	C04073	BROADBAND 1

SUBTASK 44-35-10-860-006

- (2) Do this task: System Configuration Check, TASK 44-35-00-860-805.

SUBTASK 44-35-10-740-002

- (3) Do this task: Exconnect Quick Test (BITE), TASK 44-35-00-740-801.

- (a) Make sure that no faults are reported.

SUBTASK 44-35-10-710-002

- (4) Do these steps to check the KU Antenna IN NETWORK (TASK 44-35-00-730-803):

- (a) On the MAIN menu, push the MAINTENANCE button.
- (b) On the MAINTENANCE menu, push the EXCONNECT MAINT button.
- (c) On the EXCONNECT MAINT menu, push the SATELLITE STATUS button.
- (d) Make sure that the MODEM STATUS reports IN NETWORK.

———— **END OF TASK** ————



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CABIN WIRELESS ACCESS POINT - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Cabin Wireless Access Point Removal
 - (2) Cabin Wireless Access Point Installation.

TASK 44-35-24-000-801

2. Cabin Wireless Access Point Removal

(Figure 401)

A. **General**

- (1) This task has instructions to remove the cabin wireless access point from the overhead crown area.

B. **References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
25-21-45-000-801	Main Ceiling Panel - Removal (P/B 401)

C. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

D. **Prepare for the Removal**

SUBTASK 44-35-24-860-001

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-5

Row	Col	Number	Name
D	12	C04075	CWAP/SERVER

SUBTASK 44-35-24-010-001

- (2) To get access to the cabin wireless access point [1], remove the applicable ceiling panel (TASK 25-21-45-000-801).

SUBTASK 44-35-24-860-002



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (3) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. **Cabin Wireless Access Point Removal**

SUBTASK 44-35-24-020-001

- (1) Remove the cabin wireless access point [1]:
 - (a) Disconnect the J1 Connector [7], J2 Connector [8], and J3 Connector [9] from the cabin wireless access point [1].
 - (b) Disconnect the nut [4], washer [5], and bonding jumper [6] from the airplane.

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- (c) Remove the screws [2] and washers [3] that attach the cabin wireless access point [1] to the mounting tray.

————— **END OF TASK** —————

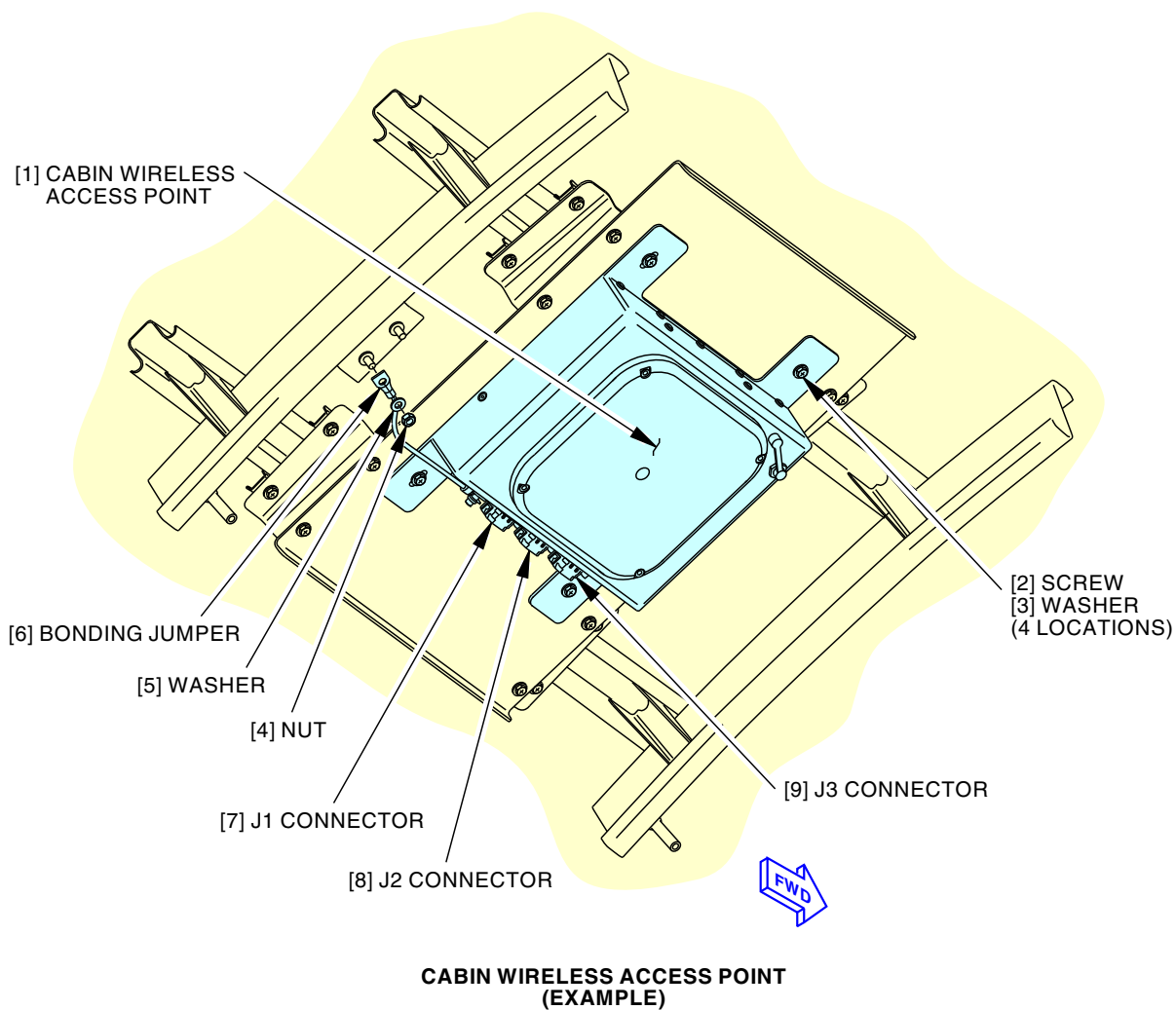
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Cabin Wireless Access Point Installation
Figure 401/44-35-24-990-801

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TASK 44-35-24-400-801

3. **Cabin Wireless Access Point Installation**

(Figure 401)

A. General

(1) This task has instructions to install the cabin wireless access point to the overhead crown area.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
25-21-45-400-801	Main Ceiling Panel - Installation (P/B 401)
44-35-00-710-805	Cabin Wireless Access Point Operational Test (P/B 501)
44-35-00-740-801	Exconnect Quick Test (BITE) (P/B 501)
44-35-00-860-805	System Configuration Check (P/B 201)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt.", which stands for Optional.

Reference	Description
COM-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Cabin wireless access point	44-35-24-02-025	SIA ALL
		44-35-24-03-025	SIA ALL
		44-35-24-04-035	SIA 015-999
		44-35-24-05-020	SIA ALL
		44-35-24-07-030	SIA 001-014

E. Location Zones

Zone	Area
200	Upper Half of Fuselage

F. Cabin Wireless Access Point Installation

SUBTASK 44-35-24-860-003



CAUTION

DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

(1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

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SUBTASK 44-35-24-420-001

- (2) Install the cabin wireless access point [1]:
 - (a) Put the cabin wireless access point [1] on the mounting tray.
 - (b) Install the screws [2] and washers [3] that attach the cabin wireless access point [1] to the mounting tray.
 - (c) Connect the bonding jumper [6], washer [5], and nut [4] to the airplane.
 - (d) Measure the resistance between the bonding jumper [6] and the airplane with an intrinsically safe approved bonding meter, COM-1550 (SWPM 20-20-00, paragraph 21).
 - 1) Make sure that the resistance is 1.0 milliohms or less.
 - (e) Connect the J1 Connector [7], J2 Connector [8], and J3 Connector [9] to the cabin wireless access point [1].

G. Cabin Wireless Access Point Installation Test

SUBTASK 44-35-24-860-004

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-5

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
D	12	C04075	CWAP/SERVER

SIA 015-999

SUBTASK 44-35-24-860-005

- (2) Do this task: System Configuration Check, TASK 44-35-00-860-805.

SUBTASK 44-35-24-740-001

- (3) Do this task: Exconnect Quick Test (BITE), TASK 44-35-00-740-801.
 - (a) Make sure that no faults are reported.

SUBTASK 44-35-24-710-001

- (4) Do these steps to power off the applicable Wireless Access Point (WAP) from the Crew Terminal:
 - (a) On the MAIN menu, push the MAINTENANCE button.
 - (b) On the MAINTENANCE menu, push the EXCONNECT MAINT button.
 - (c) On the EXCONNECT MAINT menu, push the WAP RADIO CONTROL button.
 - (d) On the WAP RADIO CONTROL menu, push the applicable WAP/Radio check box.
 - (e) On the WAP RADIO CONTROL menu, push the ENABLE button.

NOTE: The Wi-Fi system will boot up for 7 minutes.
 - (f) Make sure that the applicable SSID is shown on the Wireless Network Connection List.
 - (g) On the Forward Attendant Control Panel (ACP), set the WIFI button to OFF.
 - (h) Make sure that the applicable SSID is not shown on the Wireless Network Connection List.

NOTE: The SSID will be removed in 3 minutes from the laptop connection page.
 - (i) On the Forward ACP, set the WIFI button to ON.

NOTE: The WIFI system will boot up in 15 minutes.
 - (j) Make sure that the applicable SSID is shown on the Wireless Network Connection List.

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SUBTASK 44-35-24-710-002

(5) Do this task: Cabin Wireless Access Point Operational Test, TASK 44-35-00-710-805.

SIA ALL

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-24-410-001

(1) Install the applicable ceiling panel (TASK 25-21-45-400-801).

———— **END OF TASK** ————

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ANTENNA POINTING SYSTEM - REMOVAL/INSTALLATION

1. General

- A. This procedure has these tasks:
- (1) Antenna Pointing System Removal
 - (2) Antenna Pointing System Installation.

TASK 44-35-29-000-801

2. Antenna Pointing System Removal

(Figure 401)

A. **General**

- (1) This task has instructions to remove the antenna pointing system.

B. **References**

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
53-54-00-000-801	Broadband Radome Removal (P/B 401)

C. **Location Zones**

Zone	Area
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

D. **Prepare for the Removal**

SUBTASK 44-35-29-860-001

- (1) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	8	C04073	BROADBAND 1

SUBTASK 44-35-29-910-001



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (2) Do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

SUBTASK 44-35-29-010-001

- (3) To get access to the antenna pointing system [1], remove the broadband radome (TASK 53-54-00-000-801).

E. **Antenna Pointing System Removal**

SUBTASK 44-35-29-020-001

- (1) Remove the antenna pointing system [1]:
 - (a) If it is necessary, loosen the bolts [6] on the bracket.
 - (b) Disconnect the P1 connector [7] from the bracket.
 - (c) Disconnect the nut [3], washer [4], and bonding jumper [5] from the antenna pointing system [1].
 - (d) Remove the bolts [2] from the antenna pointing system [1].

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- (e) Carefully, pull the antenna pointing system [1] from the adapter plate.

———— **END OF TASK** ————

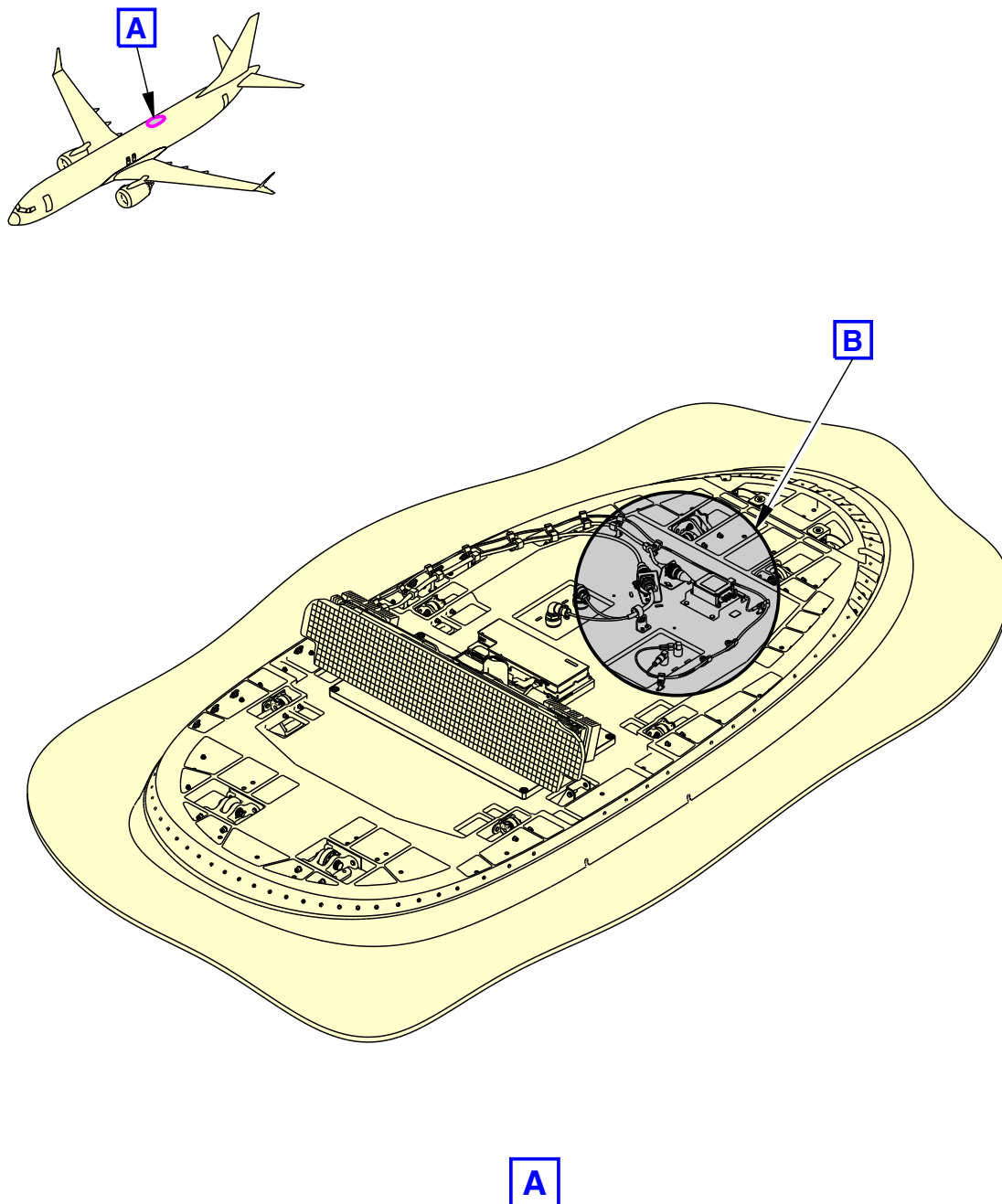
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Antenna Pointing System Installation
Figure 401/44-35-29-990-801 (Sheet 1 of 2)

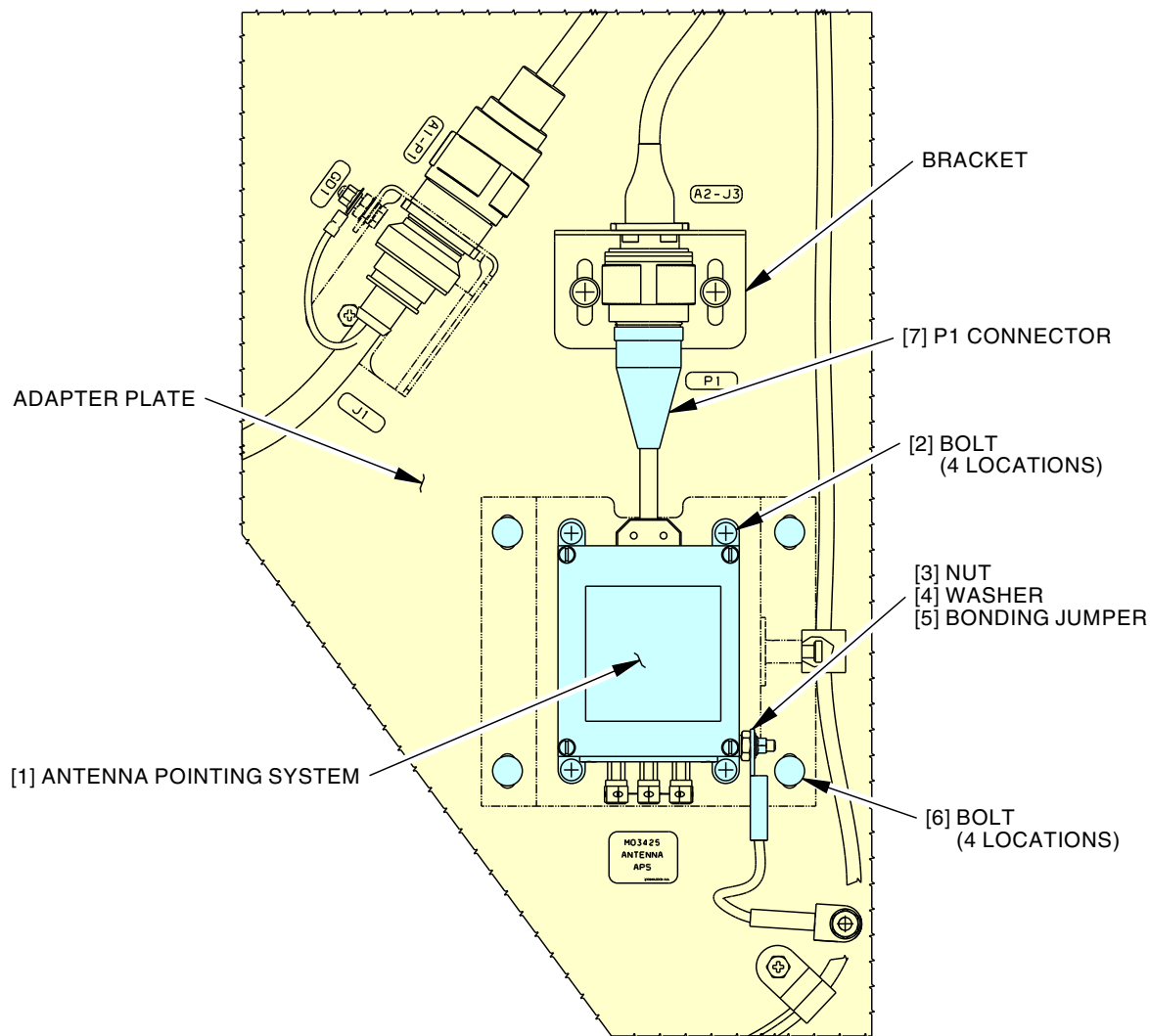
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Antenna Pointing System Installation
Figure 401/44-35-29-990-801 (Sheet 2 of 2)

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TASK 44-35-29-400-801

3. Antenna Pointing System Installation

(Figure 401)

A. General

- (1) This task has instructions to install the antenna pointing system.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-35-00-730-803	Exconnect Connectivity Test (P/B 501)
44-35-00-740-801	Exconnect Quick Test (BITE) (P/B 501)
44-35-00-860-805	System Configuration Check (P/B 201)
53-54-00-400-801	Broadband Radome Installation (P/B 401)

C. Tools/Equipment

NOTE: When more than one tool part number is listed under the same "Reference" number, the tools shown are alternates to each other within the same airplane series. Tool part numbers that are replaced or non-procurable are preceded by "Opt:", which stands for Optional.

Reference	Description
COM-1550	Bonding Meter - Approved, Intrinsically Safe (Approved for use in Class I, Divisions I & II hazardous (classified) locations. Outside these hazardous locations, COM-614 can be used in lieu of COM-1550). Part #: 620LK Supplier: 1CRL2 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659

D. Location Zones

Zone	Area
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

E. Antenna Pointing System Installation

SUBTASK 44-35-29-910-002



DO NOT TOUCH THE CONNECTOR PINS, OR OTHER CONDUCTORS. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE COMPONENTS.

- (1) Do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-35-29-420-001

- (2) Install the antenna pointing system [1]:
- Carefully, put the antenna pointing system [1] to the adapter plate.
 - Install the bolts [2] to the antenna pointing system [1].
 - Connect the bonding jumper [5], washer [4], and nut [3] to the antenna pointing system [1].
 - Tighten the nut [3] to 19 in-lb (2 N·m) to 21 in-lb (2 N·m).

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- 2) Measure the resistance between the bonding jumper [5] and the adapter plate with an intrinsically safe approved bonding meter, COM-1550.
 - a) Make sure that the resistance is 1.0 milliohms or less.
- (d) If it is necessary, loosen the bolts [6] to the bracket.
- (e) Connect the P1 connector [7] to the bracket.
 - 1) Tighten the P1 connector [7] to 12 in-lb (1 N·m) - 18 in-lb (2 N·m).
- (f) Tighten each bolt [6] to 32 in-lb (4 N·m) - 38 in-lb (4 N·m).

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-29-410-001

- (1) Install the broadband radome (TASK 53-54-00-400-801).

G. Antenna Pointing System Installation Test

SUBTASK 44-35-29-860-002

- (1) Remove the safety tag and close this circuit breaker:

F/O Electrical System Panel, P6-1

<u>Row</u>	<u>Col</u>	<u>Number</u>	<u>Name</u>
A	8	C04073	BROADBAND 1

SUBTASK 44-35-29-860-003

- (2) Do this task: System Configuration Check, TASK 44-35-00-860-805.

SUBTASK 44-35-29-740-001

- (3) Do this task: Exconnect Quick Test (BITE), TASK 44-35-00-740-801.
 - (a) Make sure that no faults are reported.

SUBTASK 44-35-29-710-001

- (4) Do these steps to check the KU Antenna IN NETWORK (TASK 44-35-00-730-803):
 - (a) On the MAIN menu, push the MAINTENANCE button.
 - (b) On the MAINTENANCE menu, push the EXCONNECT MAINT button.
 - (c) On the EXCONNECT MAINT menu, push the SATELLITE STATUS button.
 - (d) Make sure that the MODEM STATUS reports IN NETWORK.

———— **END OF TASK** ————