CHAPTER

44

CABIN SYSTEMS

CHAPTER 44
CABIN SYSTEMS

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4	Oct 15/2024	
5	Oct 15/2024	
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7	Feb 15/2024	
8	Oct 15/2024	
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10	Jun 15/2023	
O 11	Feb 15/2025	
O 12	Feb 15/2025	
13	Jun 15/2023	
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44-21-00		
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210	Oct 15/2024	
R 211	Feb 15/2025	
R 212	Feb 15/2025	
O 213	Feb 15/2025	
O 214	Feb 15/2025	
O 215	Feb 15/2025	
R 216	Feb 15/2025	
O 217	Feb 15/2025	
O 218	Feb 15/2025	
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210	Feb 15/2015	
211	Feb 15/2015	
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213	Feb 15/2015	
214	Jun 15/2015	
215	Feb 15/2015	
216	Jun 15/2015	
217	Feb 15/2015	
218	Feb 15/2015	
219	Feb 15/2015	
220	Jun 15/2015	
221	Jun 15/2015	
222	Feb 15/2024	
223	Feb 15/2024	
224	Feb 15/2024	
225	Feb 15/2024	
44-21-00 Config 1 (cont)		
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44-21-00		
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520	Oct 15/2024	
44-21-01		
401	Jun 15/2023	
402	Jun 15/2023	

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44-21-02		
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44-21-04		
401	Jun 15/2023	
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406	Jun 15/2018	
44-21-04 (cont)		
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44-21-05		
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44-21-06		
401	Jun 15/2018	
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404	Oct 15/2015	
405	Jun 15/2018	
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407	Jun 15/2018	
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410	Jun 15/2018	
44-21-07		
401	Jun 15/2023	
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44-21-08		
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44-21-09		
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405	Jun 15/2023	
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44-21-11		
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405	Jun 15/2018	
406	Oct 15/2015	
407	Oct 15/2024	
408	Oct 15/2015	
409	Jun 15/2018	
410	Oct 15/2015	
411	Oct 15/2024	
412	Oct 15/2024	

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44-21-11 Config 2		
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407	Oct 15/2024	
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44-21-14		
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44-21-15		
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44-21-16		
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44-21-18		
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44-21-19		
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44-21-19		
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44-21-20		
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44-21-21		
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44-21-22		
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44-21-22		
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402	Oct 15/2015	
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404	Jun 15/2019	
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404	Jun 15/2015	
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44-21-26		
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44-21-28		
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44-21-29		
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402	Oct 15/2017	
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404	Jun 15/2015	
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44-21-30		
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44-21-33		
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44-21-34		
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404	Feb 15/2023	
44-30-01		
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R 202	Feb 15/2025	
R 203	Feb 15/2025	
O 204	Feb 15/2025	
44-35-00 Config 1 (cont)		
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R 206	Feb 15/2025	
O 207	Feb 15/2025	
O 208	Feb 15/2025	
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44-35-00 Config 1		
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44-35-08		
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Remote Jack Unit Installation TASK 44-21-06-400-801			407	LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999
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Seat Back Smart Display Unit Removal TASK 44-21-07-000-801			401	LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454
Seat Back Smart Display Unit Installation TASK 44-21-07-400-801			404	LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454
In-Arm Smart Display Unit Removal TASK 44-21-07-000-802			406	LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464
In-Arm Smart Display Unit Installation TASK 44-21-07-400-802			409	LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464
Wall Mounted Smart Display Unit Removal TASK 44-21-07-000-803			411	LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454
Wall Mounted Smart Display Unit Installation TASK 44-21-07-400-803			416	LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454
SYSTEM CONTROLLER UNIT - REMOVAL/INSTALLATION	44-21-08		401	LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464
System Controller Unit Removal TASK 44-21-08-000-802			401	LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464
System Controller Unit Installation TASK 44-21-08-400-802			404	LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464

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Multi-Function Handset Removal TASK 44-21-09-000-801			401	LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999
Multi-Function Handset Installation TASK 44-21-09-400-801			403	LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999
Multifunction Handset Cradle with Cord Removal TASK 44-21-09-000-802			404	LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999
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SEAT ELECTRONICS BOX - REMOVAL/INSTALLATION	44-21-11		401	LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464
Seat Electronics Box Removal TASK 44-21-11-000-801			401	LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464
Seat Electronics Box Installation TASK 44-21-11-400-801			411	LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464
SEAT ELECTRONICS BOX - REMOVAL/INSTALLATION	44-21-11	2	401	LOM 466-999
Seat Electronics Box Removal TASK 44-21-11-000-803-002		2	401	LOM 466-999
Seat Electronics Box Installation TASK 44-21-11-400-803-002		2	404	LOM 466-999
OVERHEAD LCD MONITOR - REMOVAL/INSTALLATION	44-21-12		401	LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999
Overhead LCD Monitor - Removal TASK 44-21-12-000-801			401	LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999
Overhead LCD Monitor - Installation TASK 44-21-12-400-801			414	LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999

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IN-SEAT POWER SUPPLY REMOVAL/INSTALLATION	44-21-14		401	LOM 416, 422, 425, 433, 434, 440, 442, 453, 454, 466-999
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In-Seat Power Supply Installation TASK 44-21-14-400-801			405	LOM 416, 422, 425, 433, 434, 440, 442, 453, 454, 466-999
OUTLET UNIT - REMOVAL/INSTALLATION	44-21-15		401	LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999
Outlet Unit Removal TASK 44-21-15-000-801			401	LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999
Outlet Unit Installation TASK 44-21-15-400-801			404	LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999
PC POWER SYSTEM - ADJUSTMENT/TEST	44-21-16		501	LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999
PC Power System - Operational Test TASK 44-21-16-700-801			501	LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999
PC Power System - System Test TASK 44-21-16-700-802			502	LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999
MCU CONFIGURATION MODULE REMOVAL/INSTALLATION	44-21-18		401	LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999
Configuration Module Removal TASK 44-21-18-000-801			401	LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

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Video Reproducer Media Download TASK 44-21-19-470-801			201	LOM 416
VIDEO REPRODUCER - REMOVAL/INSTALLATION	44-21-19		401	LOM 416
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Video Reproducer Installation TASK 44-21-19-400-801			404	LOM 416
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Audio Multiplexer Removal TASK 44-21-21-000-801			401	LOM 427, 428, 437, 438, 445, 457-460, 462, 463
Audio Multiplexer Installation TASK 44-21-21-400-801			405	LOM 427, 428, 437, 438, 445, 457-460, 462, 463
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Audio Multiplexer Memory Update TASK 44-21-22-400-805			201	LOM 427, 428, 445, 457-460, 462, 463
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Audio BITE Panel Removal TASK 44-21-22-000-802			401	LOM 427, 428, 445, 457-460, 462, 463
Audio BITE Panel Installation TASK 44-21-22-400-801			403	LOM 427, 428, 445, 457-460, 462, 463
BROADCAST DIGITAL SERVER - REMOVAL/INSTALLATION	44-21-23		401	LOM 437-439, 441
Broadcast Digital Server Removal TASK 44-21-23-000-801			401	LOM 437-439, 441
Broadcast Digital Server Installation TASK 44-21-23-400-801			404	LOM 437-439, 441
DATA/MEDIA LOADER - REMOVAL/INSTALLATION	44-21-24		401	LOM 443, 444, 446, 447, 455, 456, 458-460
Onboard Media Loader - Removal TASK 44-21-24-000-802			401	LOM 443, 444, 446, 447, 455, 456, 458-460
Onboard Media Loader - Installation TASK 44-21-24-400-802			404	LOM 443, 444, 446, 447, 455, 456, 458-460
SEAT POWER MODULE - REMOVAL/INSTALLATION	44-21-26		401	LOM 443, 444, 458-461, 464, 466-999
Seat Power Module Removal TASK 44-21-26-000-801			401	LOM 443, 444, 458-461, 464, 466-999
Seat Power Module Installation TASK 44-21-26-400-801			404	LOM 443, 444, 458-461, 464, 466-999
REMOTE JACK MODULE (RJM) - REMOVAL/INSTALLATION	44-21-28		401	LOM 443, 444, 458-461, 466-999
Remote Jack Module (RJM) Removal TASK 44-21-28-000-801			401	LOM 443, 444, 458-461, 466-999
Remote Jack Module (RJM) Installation TASK 44-21-28-400-801			404	LOM 443, 444, 458-461, 466-999
CONTENT SERVER - REMOVAL/INSTALLATION	44-21-29		401	LOM 443, 444, 446, 447, 455, 456
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Aircraft Interface - Removal TASK 44-21-30-000-801			401	LOM 443, 444, 446, 447, 455, 456
Aircraft Interface - Installation TASK 44-21-30-400-801			404	LOM 443, 444, 446, 447, 455, 456
USB HUB - REMOVAL/INSTALLATION	44-21-31		401	LOM 443, 444
USB Hub - Removal TASK 44-21-31-000-801			401	LOM 443, 444
USB Hub - Installation TASK 44-21-31-400-801			404	LOM 443, 444
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Integrated Server - Removal TASK 44-21-33-000-801			401	LOM 466-999
Integrated Server - Installation TASK 44-21-33-420-801			404	LOM 466-999
ENTERTAINMENT SWITCH MODULE - REMOVAL/INSTALLATION	44-21-34		401	LOM 422, 425
Entertainment Switch Module Removal TASK 44-21-34-000-801			401	LOM 422, 425
Entertainment Switch Module Installation TASK 44-21-34-400-801			404	LOM 422, 425
CELL MODEM - MAINTENANCE PRACTICES	44-30-01		201	LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999
Cell Modem - Deactivation TASK 44-30-01-040-801			201	LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999
Cell Modem - Activation TASK 44-30-01-440-801			202	LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999

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Cell Modem Removal TASK 44-30-01-000-801			401	LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999
Cell Modem Installation TASK 44-30-01-400-801			406	LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999
GLOBAL COMMUNICATIONS SUITE - MAINTENANCE PRACTICES	44-35-00	1	201	LOM 466-999
Global Communications Suite - Deactivation TASK 44-35-00-040-801-001		1	201	LOM 466-999
Global Communications Suite - Activation TASK 44-35-00-440-801-001		1	202	LOM 466-999
Laptop Operation TASK 44-35-00-800-808-001		1	207	LOM 466-999 PRE SB 737-44-1032
Set Maintenance Aircraft Information TASK 44-35-00-800-801-001		1	208	LOM 466-999
Load Satellite Coverage or Portal Content TASK 44-35-00-400-803-001		1	209	LOM 466-999
Reconfigure the Wireless Access Point TASK 44-35-00-800-802-001		1	210	LOM 466-999
Wireless Access Point Radio Control TASK 44-35-00-800-803-001		1	211	LOM 466-999
Change Wireless Access Point Transmit Power TASK 44-35-00-800-804-001		1	212	LOM 466-999
Satellite Status Check TASK 44-35-00-700-804-001		1	213	LOM 466-999
eXConnect System Commissioning TASK 44-35-00-800-805-001		1	213	LOM 466-999
Set Antenna Offset Information TASK 44-35-00-800-806-001		1	215	LOM 466-999
Check Antenna Information TASK 44-35-00-700-805-001		1	216	LOM 466-999

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Set eXConnect System Services TASK 44-35-00-800-807-001		1	217	LOM 466-999
GLOBAL COMMUNICATIONS SUITE - ADJUSTMENT/TEST	44-35-00	1	501	LOM 466-999
Global Communications Suite - Quick Test TASK 44-35-00-700-810-001		1	501	LOM 466-999
Global Communications Suite - All Test TASK 44-35-00-700-811-001		1	502	LOM 466-999
Global Communications Suite - Operational Test TASK 44-35-00-700-802		1	503	LOM 466-999
Global Communications Suite Internet Connectivity - Operational Test TASK 44-35-00-700-808-001		1	504	LOM 466-999
Global Communications Suite Intranet Connectivity - Operational Test TASK 44-35-00-700-809-001		1	506	LOM 466-999
Global Communications Suite - System Test TASK 44-35-00-700-803-001		1	507	LOM 466-999
FILE SERVER (FS) - REMOVAL/INSTALLATION	44-35-08		401	LOM 466-999
File Server Removal TASK 44-35-08-000-801			401	LOM 466-999
File Server Installation TASK 44-35-08-400-801			403	LOM 466-999
WIRELESS ACCESS POINT (WAP)	44-35-10		401	LOM 466-999
Wireless Access Point (WAP) - Removal TASK 44-35-10-000-801			401	LOM 466-999
Wireless Access Point (WAP) Installation TASK 44-35-10-400-801			404	LOM 466-999
KU-BAND ANTENNA - REMOVAL/INSTALLATION	44-35-11		401	LOM 466-999
KU-Band Antenna Removal TASK 44-35-11-000-801			401	LOM 466-999
KU-Band Antenna Installation TASK 44-35-11-400-801			408	LOM 466-999

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BROADBAND CONTROLLER - REMOVAL/INSTALLATION	44-35-12		401	LOM 466-999 PRE SB 737-44-1032
Broadband Controller Removal TASK 44-35-12-000-801			401	LOM 466-999 PRE SB 737-44-1032
Broadband Controller Installation TASK 44-35-12-400-801			404	LOM 466-999 PRE SB 737-44-1032
POWER SUPPLY UNIT - REMOVAL/INSTALLATION	44-35-13		401	LOM 466-999
Power Supply Unit Removal TASK 44-35-13-000-801			401	LOM 466-999
Power Supply Unit Installation TASK 44-35-13-400-801			405	LOM 466-999
BROADBAND CONTROL PANEL - REMOVAL/INSTALLATION	44-35-14		401	LOM 466-999
Broadband Control Panel Removal TASK 44-35-14-000-801			401	LOM 466-999
Broadband Control Panel Installation TASK 44-35-14-400-801			403	LOM 466-999

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PASSENGER VIDEO SYSTEM - MAINTENANCE PRACTICES

1. **General**

A. This procedure has these tasks:

(1) Video Entertainment System Deactivation

(2) Video Entertainment System Activation

(3) Setting Flight and Entertainment Modes

(4) Load Software

(5) Configuration Check

(6) Data Offload

LOM 443, 444, 446, 447, 455, 456

(7) LRU Readdress

LOM 466-999; LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

(8) Digital Overhead Monitor (DOM) readdress

LOM 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(9) Seat Reset

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(10) Media Load

(11) PL1000 Operation

LOM 443, 444, 446, 447, 455, 456

(12) PL2000 Operation

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(13) Review Fault Trends

(14) Setting Air-to-Ground Modes

(15) Review Flight Legs

(16) View Reboot Log

LOM 466-999; LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

(17) PSU Mounted Individual LCD Monitor Deactivation/Activation

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

TASK 44-21-00-440-802

2. **Video Entertainment System - Activation**

A. General

(1) This procedure provides the necessary steps to properly add electrical power and log into the entertainment system.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage

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(Continued)

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Procedure

SUBTASK 44-21-00-860-007

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	10	C01952	IFE DC
LOM 422, 425			
B	13	C01695	IFE DC
LOM 427, 428, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO
LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			
D	5	C01452	VIDEO 1
LOM 416, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			
D	6	C01453	VIDEO 2
LOM 427, 428, 445, 457-460, 462-464			
D	7	C01454	VIDEO 3
D	8	C01455	VIDEO 4

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD
LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999			

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)
LOM 416			
C	8	C01456	ENTERTAINMENT AUDIO (INOP)

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LOM 416 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 433, 434, 440, 442, 453, 454			
D	7	C01454	VIDEO 3 (INOP)
D	8	C01455	VIDEO 4 (INOP)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 446, 447, 455, 456			
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

SUBTASK 44-21-00-860-008

(2) Make sure the IFE/PASS SEATS switch on the pilot's overhead panel P5 is set to ON.

SUBTASK 44-21-00-860-009

(3) To initialize the entertainment system, do these steps as necessary:

LOM 416, 422, 425

(a) Do these steps at the Attendant Control Panel (ACP):

1) Set the IFE/ENTERTAINMENT POWER switch to ON.

2) Set the PC POWER switch to ON

LOM 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(b) Do these steps at the Attendant Control Panel (ACP):

1) Select the PASSENGER SERVICES on the left hand side of the touch screen.

NOTE: When the attendant panel is not in use and airplane is on the ground, the display screen will be on the logo screen saver. To reactivate the screen, sequentially touching opposite corners of display screen within 2 seconds.

NOTE: IFE function is only available on the forward ACP.

a) Make sure that the IFE/ENTERTAINMENT field is available.

LOM 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999

b) Make sure that the PC POWER fields are available.

LOM 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

2) Select the IFE/ENTERTAINMENT OFF button on the ACP.

a) Make sure that the button changes state to ON.

LOM 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999

3) Select the PC POWER OFF button on the ACP.

a) Make sure that the button changes state to ON.

LOM 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

4) If necessary, select the SPECIAL FUNCTIONS on the on the left hand side of main menu display.

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LOM 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999 (Continued)

a) Select the CREW PANEL OFF button on the ACP.

<1> Make sure that the button changes state to ON.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(c) Wait approximately 5 minutes to allow the IFE to power up and complete the operational and database software download.

NOTE: On the very first time the in-seat video system is powered or after a headend LRU replacement, it may take up to 1/2 hour for the software to distribute and load to all applicable LRU.

(d) Make sure that these conditions exist after the boot-up is complete:

1) Make sure that the airline WELCOME/LOGO screen is shown at the Crew Panel.

LOM 416

2) The DVDP is in the STOP mode.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

3) The Handsets show system default channel.

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

4) All overhead monitors are in applicable state.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

5) All Seat Display Units (SDUs) are in applicable state.

LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999

6) PC Outlet LEDs are on.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(e) To log in to the CABIN CREW screens, do the steps that follow at the Crew Terminal:

1) At the Cabin Crew WELCOME/LOGO screen, select the Log In or Proceed To Menu button.

a) Make sure the Cabin Crew MAIN MENU screen shows.

(f) If it is necessary to log in to the CABIN MAINTENANCE screen, do the steps that follow:

1) From the Cabin Crew MAIN MENU screen, select the Maintenance button.

a) Make sure that the PASSCODE screen shows.

2) From the PASSCODE screen, select the Virtual Keyboard button.

a) Make sure the KEYBOARD screen is shown.

3) From the KEYBOARD screen, enter a valid passcode.

NOTE: A series of asterisks will appear in the Passcode entry area.

4) Select the ENTER key on the Virtual Keyboard to accept the passcode.

5) Select the Continue button.

a) Make sure that the CABIN MAINTENANCE screen shows.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-00-040-801

3. Video Entertainment System - Deactivation

A. General

(1) This procedure provides the necessary steps to properly log out of the entertainment system and remove electrical power.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Procedure

SUBTASK 44-21-00-860-010

(1) To log out of the passenger entertainment system, do the steps that follow:

(a) For Cabin Crew MAIN MENU screen with Close Flight button, do the steps that follow:

1) At the Cabin Crew Terminal MAIN MENU screen, select the Close Flight button.

2) Select the Confirm button at the pop-up window.

3) Select the Screen Off button.

a) Make sure the screen goes blank.

(b) For Cabin Crew MAIN MENU screen with Open/Close Flight button, do the steps that follow:

1) At the Cabin Crew Terminal MAIN MENU screen, select the Open/Close Flight button.

a) Make sure that the OPEN/CLOSE FLIGHT screen is shown.

2) From the OPEN/CLOSE FLIGHT screen, select the Close Flight button.

3) Select the Confirm button at the pop-up window.

4) Select the Close button at the pop-up window.

SUBTASK 44-21-00-860-228

(2) To power off the entertainment system, do the steps that follow:

LOM 416, 422, 425

(a) Do these steps at the Attendant Control Panel (ACP):

1) Set the IFE/ENTERTAINMENT POWER switch to OFF.

2) Set the PC POWER switch to OFF.

LOM 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(b) Do these steps at the Attendant Control Panel (ACP):

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LOM 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999 (Continued)

1) Select the PASSENGER SERVICES on the on the left hand side of main menu display.

NOTE: When the attendant panel is not in use and airplane is on ground, the display screen will be on the logo screen saver. To reactivate the screen, sequentially touching opposite corners of display screen within 2 seconds.

NOTE: IFE function is only available on the forward ACP.

a) Make sure that the IFE/ENTERTAINMENT field is available.

LOM 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999

b) Make sure that the PC POWER field is available.

LOM 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

2) Select the IFE/ENTERTAINMENT ON button on the ACP.

a) Make sure that the button changes state to OFF.

LOM 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999

b) Make sure that the PC OUTLETS field is not available.

LOM 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

3) If necessary, select the SPECIAL FUNCTIONS on the on the left hand side of main menu display.

a) Select the CREW PANEL ON button on the ACP.

<1> Make sure that the button changes state to OFF.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

SUBTASK 44-21-00-860-229

(3) To remove electrical power from the entertainment system, do the steps that follow:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	10	C01952	IFE DC
LOM 422, 425			
B	13	C01695	IFE DC
LOM 427, 428, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO
LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			
D	5	C01452	VIDEO 1
LOM 416, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			
D	6	C01453	VIDEO 2

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LOM 416, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 445, 457-460, 462-464			
D	7	C01454	VIDEO 3
D	8	C01455	VIDEO 4

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)
LOM 416			
C	8	C01456	ENTERTAINMENT AUDIO (INOP)
LOM 416, 433, 434, 440, 442, 453, 454			
D	7	C01454	VIDEO 3 (INOP)
D	8	C01455	VIDEO 4 (INOP)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 446, 447, 455, 456			
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

D. Video Entertainment System - Tryout

NOTE: This tryout is to make sure the Video Entertainment system is in a zero energy state.

SUBTASK 44-21-00-200-001

(1) Do these steps at the Attendant Control Panel (ACP):

(a) Set the IFE/ENTERTAINMENT/PC POWER (as applicable) switch to ON.

1) Make sure the switch does not remain ON and the screen is not illuminated.

SUBTASK 44-21-00-200-002

(2) Make sure seat mounted (as applicable) passenger control units are not illuminated.

END OF TASK

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TASK 44-21-00-800-842

4. Setting Flight and Entertainment Modes

A. General

(1) This task includes the steps to open and close a flight, and to set the Entertainment mode.

B. Prepare for the Procedure

SUBTASK 44-21-00-860-254

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

C. Procedure

SUBTASK 44-21-00-860-255

(1) For Cabin Crew MAIN MENU screen with Open Flight button, do the steps that follow to open a flight:

(a) Make sure that the flight is closed.

(b) From the Cabin Crew MAIN MENU screen, select the Open Flight button.

1) Make sure that the OPEN FLIGHT screen is shown.

(c) From the OPEN FLIGHT screen, enter the applicable information.

(d) Select the Save button to open the flight.

1) Make sure that the Confirmation pop-up window is shown.

(e) Select the Confirm button at the pop-up window.

(f) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

SUBTASK 44-21-00-860-256

(2) For Cabin Crew MAIN MENU screen with Open/Close Flight button, do the steps that follow to open a flight:

(a) Make sure that the flight is closed.

(b) From the Cabin Crew MAIN MENU screen, select the Open/Close Flight button.

1) Make sure that the OPEN/CLOSE FLIGHT screen is shown.

(c) From the OPEN/CLOSE FLIGHT screen, enter the applicable information.

(d) Select the Save button to open the flight.

1) Make sure that the Confirmation pop-up window is shown.

(e) Select the Confirm button at the pop-up window.

(f) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

SUBTASK 44-21-00-860-257

(3) For Cabin Crew MAIN MENU screen with Open Flight button, do the steps that follow to close a flight:

(a) Make sure that a flight is open.

(b) At the Cabin Crew MAIN MENU screen, select the Open Flight button.

1) Make sure that the OPEN FLIGHT screen is shown.

(c) From the OPEN FLIGHT screen, select the Close Flight tab.

1) Make sure that the CLOSE FLIGHT tab screen is shown.

(d) Select the Close Flight button to close the flight.

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1) Make sure that the Confirmation pop-up window is shown.

(e) Select the Confirm button at the pop-up window.

(f) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

SUBTASK 44-21-00-860-258

(4) For Cabin Crew MAIN MENU screen with Open/Close Flight button, do the steps that follow to close a flight:

(a) Make sure that a flight is open.

(b) At the Cabin Crew MAIN MENU screen, select the Open/Close Flight button.

1) Make sure that the OPEN/CLOSE FLIGHT screen is shown.

(c) From the OPEN/CLOSE FLIGHT screen, select the Close Flight tab.

1) Make sure that the CLOSE FLIGHT tab screen is shown.

(d) Select the Close Flight button to close the flight.

1) Make sure that the Confirmation pop-up window is shown.

(e) Select the Confirm button at the pop-up window.

(f) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

SUBTASK 44-21-00-860-259

(5) To set the Entertainment mode, do the steps that follow:

(a) From the Cabin Crew MAIN MENU screen, select the Entertainment button.

1) Make sure that the ENTERTAINMENT screen is shown.

(b) From the ENTERTAINMENT screen, select the Turn On or Turn Off button to toggle from Entertainment On mode and Entertainment Off mode.

NOTE: When the Entertainment mode is set to ON, the ENTERTAINMENT ON/OFF screen will show "Entertainment Is Currently: ON." When the Entertainment mode is set to OFF, the ENTERTAINMENT ON/OFF screen will show "Entertainment Is Currently: OFF."

(c) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-260

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

TASK 44-21-00-400-801

5. Load Software

A. General

(1) This task loads the software.

(2) The software can be loaded with the following devices:

(a) Portable Data Loader (PDL)

LOM 443, 444, 446, 447, 455, 456, 458-460

(b) On-board Media Loader (OML)

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) USB Storage device

LOM 466-999 PRE SB 737-44-1032

(d) Compact Disc (CD)

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(3) Make sure to allocate a few minutes after each step for the system to stabilize. Do not push the Cancel button during the loading because it breaks the synchronization between the Loader Client and MAINT.

B. References

Reference	Title
44-35-00-800-808-001	Laptop Operation (P/B 201)

C. Procedure

SUBTASK 44-21-00-470-001

(1) Load software in this sequence:

NOTE: The core software loading process is approximately 10 to 25 minutes.

(a) Load the core head-end software.

(b) Load the core seat software.

(c) Load seat applications and games.

D. Load Software with Portable Media Loader

SUBTASK 44-21-00-860-011

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-470-002

(2) To load software from the PL1000 Portable Media Loader, do the steps that follow:

(a) Setup and activate the PL1000 (PL1000 Operation, TASK 44-21-00-800-805).

(b) At the Crew Panel CABIN MAINTENANCE screen, select the Software Load button.

1) Make sure that the SOFTWARE LOAD screen is shown.

(c) At the SOFTWARE LOAD screen, select the Load Software button.

1) Make sure that the LOAD SOFTWARE-SELECT SOURCE screen is shown.

(d) At the LOAD SOFTWARE-SELECT SOURCE screen, select the PL1000 button.

(e) Select the Get Software List button.

1) Make sure that a list of available software is shown on the LOAD SOFTWARE screen.

(f) At the LOAD SOFTWARE screen, select the software to be loaded.

(g) At the LOAD SOFTWARE screen, select the Load button.

1) Make sure that all files are completely loaded with no errors.

(h) Do this task: Configuration Check, TASK 44-21-00-700-801.

(i) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

(j) Disconnect the PL1000 (PL1000 Operation, TASK 44-21-00-800-805).

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464

SUBTASK 44-21-00-470-032

(3) To load software from the PL1000R Portable Media Loader, do the steps that follow:

(a) Insert the removable Hard Disk Drive (HDD) or Solid State Drive (SSD) into the slot on the front of the PL1000R.

(b) Push in and rotate the HDD/SSD knob to the lock position.

(c) Setup and activate the PL1000R (PL1000R Operation, TASK 44-21-00-800-821).

(d) At the Crew Panel CABIN MAINTENANCE screen, select the Software Load button.

1) Make sure that the SOFTWARE LOAD screen is shown.

(e) At the SOFTWARE LOAD screen, select the Load Software button.

1) Make sure that the LOAD SOFTWARE-SELECT SOURCE screen is shown.

(f) At the LOAD SOFTWARE-SELECT SOURCE screen, select the PL1000R button.

(g) Select the Get Software List button.

1) Make sure that a list of available software is shown on the LOAD SOFTWARE screen.

(h) At the LOAD SOFTWARE screen, select the software to be loaded.

(i) At the LOAD SOFTWARE screen, select the Load button.

1) Make sure that all files are completely loaded with no errors.

(j) Do this task: Configuration Check, TASK 44-21-00-700-801.

(k) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

(l) Disconnect the PL1000R (PL1000R Operation, TASK 44-21-00-800-821).

LOM 443, 444, 446, 447, 455, 456, 458-460

E. Load Software with a On-board Media Loader

SUBTASK 44-21-00-470-034

(1) To load software from the OML, do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the Software Load Button.

1) Make sure that the SOFTWARE LOAD screen is shown.

(b) From the SOFTWARE LOAD screen, select the Load Software button.

1) Make sure that the LOAD SOFTWARE-SELECT SOURCE screen is shown.

(c) If loading software from a Removable Hard Disk Drive (HDD) or Solid State Drive (SSD), do the steps that follow:

1) Push and pull the OML drive latch to the unlocked position and remove the existing removable HDD/SSD from the OML.

2) Place the removable HDD/SSD in the OML and wait for the corresponding LED to illuminate.

3) Push and turn the OML drive latch to the locked position.

4) Wait 30 seconds for the drive power ready light to go on.

(d) If loading software from a USB stick, SD Card, or CF card, insert the USB stick, SD Card, or CF card in the OML and wait for the corresponding LED to illuminate.

(e) From the LOAD SOFTWARE-SELECT SOURCE screen, select the applicable OML Device button.

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LOM 443, 444, 446, 447, 455, 456, 458-460 (Continued)

(f) Use the green toggle buttons to select the appropriate OML source, and select the Get Software List button.

1) Make sure that the LOAD SOFTWARE screen is shown with a list of the available software.

(g) Select the software to be loaded and select the Load button.

1) Make sure that all files are completely loaded with no errors.

(h) Do this task: Configuration Check, TASK 44-21-00-700-801.

(i) Select the Main Menu icon to go to the Cabin Crew MAIN MENU screen.

(j) Remove the USB stick, SD Card or CF card from the OML.

NOTE: If the Removable HDD/SSD was used to load software, do not remove it from the HDD-OML/SSD-OML.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

F. Load Software with a USB device

SUBTASK 44-21-00-470-003

(1) To load software from the USB Drive, do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the Software Load Button.

1) Make sure that the SOFTWARE LOAD screen is shown.

(b) From the SOFTWARE LOAD screen, select the Load Software button.

1) Make sure that the LOAD SOFTWARE-SELECT SOURCE screen is shown.

(c) Insert the USB device into the front USB port of the CP and wait one minute.

(d) From the LOAD SOFTWARE-SELECT SOURCE screen, select the USB Drive button.

(e) Select the Get Software button.

1) Make sure that the LOAD SOFTWARE screen is shown with a list of the available software.

(f) Select the software to be loaded and select the Load button.

1) Make sure that all files are completely loaded with no errors.

(g) Do this task: Configuration Check, TASK 44-21-00-700-801.

(h) Select the Main Menu icon to go to the Cabin Crew MAIN MENU screen.

(i) Remove the USB device from the port.

LOM 466-999 PRE SB 737-44-1032

G. Load Software with a Compact Disc

SUBTASK 44-21-00-470-033

(1) To load software from the Compact Disc (CD), do the steps that follow:

(a) Insert the CD into the Laptop. (Laptop Operation, TASK 44-35-00-800-808-001).

(b) Reboot the Laptop.

NOTE: The laptop may take five minutes to boot up.

1) Make sure that the SOFTWARE LOADING SETUP screen is shown.

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

1) Make sure the drop-down list is shown.

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(d) From the drop-down list, select eXConnect.

1) Make sure that the eXC option is shown as the current configuration.

(e) 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 shown.

a) If this address is not displayed, make sure that the Ethernet cable is connected to the Laptop and the Data Loader port and reboot the Laptop.

(f) From the TARGETS section of the SOFTWARE LOADING SETUP screen, select the BC check box.

(g) Select the Load Software Kit button.

1) Make sure that the software load is started.

(h) Wait for the Loading message box to make sure that all files load successfully.

(i) Make sure that the software load is successful, and that the system reboots automatically.

(j) Do this task: Configuration Check, TASK 44-21-00-700-801.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-012

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

——— END OF TASK ———

TASK 44-21-00-700-801

6. Configuration Check

A. Procedure

SUBTASK 44-21-00-860-013

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-750-001

(2) To do the Configuration Check procedure, do the steps that follow:

(a) At the CABIN MAINTENANCE screen, select the Configuration button.

1) Make sure that the CONFIGURATION screen is shown.

(b) From the CONFIGURATION screen, select the Config Check button.

1) Make sure that the CONFIGURATION SUMMARY screen is shown.

NOTE: Choosing the Review Config Check button will also display the CONFIGURATION SUMMARY screen.

NOTE: If required, select the Content Status button from the CONFIGURATION screen to display the CONTENT STATUS screen and show a listing of all software.

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(c) From the CONFIGURATION SUMMARY screen, use the Software Configuration Index document that is shipped with the software and make sure the correct number of LRUs are reported, along with the correct software part numbers and versions.

(d) If required, at the CONFIGURATION SUMMARY screen, choose a specific LRU and select the Details button to view specific details on the CONFIGURATION DETAILS screen.

NOTE: If the LRU(s) is/are not yet reporting the correct information, allow the LRU(s) time to complete the download and boot up process.

(e) If the software is not correct, then install the correct software (Load Software, TASK 44-21-00-400-801).

(f) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

SUBTASK 44-21-00-750-002

(3) To do a Content Status check, do the steps that follow:

(a) At the CABIN MAINTENANCE screen, select the Configuration button.

1) Make sure that the CONFIGURATION screen is shown.

(b) From the CONFIGURATION screen, select the Content Status button.

1) Make sure that the CONTENT STATUS screen is shown.

(c) From the CONTENT STATUS screen, review the list of applications.

1) Make sure that the list of applications is complete and that the software version numbers are correct.

(d) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

B. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-014

(1) If it is not necessary to continue and operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

TASK 44-21-00-900-801

7. Data Offload

A. Procedure

SUBTASK 44-21-00-860-015

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-970-001

(2) To do the BITE History Offload, do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the Data Offload button.

1) Make sure that the DATA OFFLOAD screen is shown

(b) From the DATA OFFLOAD screen, select the BITE History Offload button.

1) Make sure that the BITE HISTORY OFFLOAD screen is shown

(c) From the BITE HISTORY OFFLOAD screen, enter a BITE filename.

NOTE: This is typically something that will identify which aircraft the offload information is being offloaded from. Typically, the aircraft tail number will be used.

(d) Insert the USB device into the front USB port of the Crew Panel.

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1) Wait one minute.

(e) At the BITE HISTORY OFFLOAD screen, select the Continue button.

1) Wait for the process to complete.

2) When the offload is complete, a message appears showing that the data has been offloaded to the USB device.

(f) Remove the USB device.

(g) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

LOM 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464

SUBTASK 44-21-00-970-002

(3) To do the Registered Data Offload, do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the Data Offload button.

1) Make sure that the DATA OFFLOAD screen is shown

(b) Insert the USB device into the front USB port of the Crew Panel.

1) Wait one minute.

(c) From the DATA OFFLOAD screen, select the Offload Registered Data button.

1) Make sure that the OFFLOAD REGISTERED DATA screen is shown

2) Make sure that the status of the USB device shows as USB Drive: Mounted.

(d) From the OFFLOAD REGISTERED DATA screen, select the Start Offload button.

1) Wait for the process to complete.

2) When the offload is complete, a message appears showing that the data has been offloaded to the USB device.

(e) From the OFFLOAD REGISTERED DATA screen, select the Unmount button.

(f) Remove the USB device.

(g) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

B. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-016

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

——— END OF TASK ———

LOM 443, 444, 446, 447, 455, 456

TASK 44-21-00-800-803

8. LRU Readdress

A. Procedure

SUBTASK 44-21-00-860-017

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-018

(2) To readdress the LRU, do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the System Maint button.

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LOM 443, 444, 446, 447, 455, 456 (Continued)

(b) From the SYSTEM MAINTENANCE screen, select the Seat Maintenance button.

(c) From the SEAT MAINTENANCE screen, select the Port Readdress button.

(d) From the PORT READDRESS screen, use the FS Up/Down and PORT Up/Down buttons to select an FS and PORT.

(e) Select the Readdress button.

1) Make sure that the Readdress List is shown once the readdressing has completed.

NOTE: The readdress process is approximately 20 seconds.

(f) Select the Analyze Topology button to initiate the topology analysis of a selected FS port.

(g) Select the Get Topology button to show the topology results.

(h) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

B. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-019

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

——— END OF TASK ———

LOM 466-999; LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

TASK 44-21-00-800-822

9. Digital Overhead Monitor (DOM) readdress

A. Procedure

SUBTASK 44-21-00-860-086

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-088

(2) To readdress the Digital Overhead Monitor (DOM), do the steps that follow:

LOM 466-999

(a) From the CABIN MAINTENANCE screen, select SEAT FUNCTIONS.

(b) Select IS READDRESS from the menu.

1) If prompted with the pop-up message “Seat redundancy is set to ON. Turn seat redundancy to OFF”, select NO.

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

(c) From the CABIN MAINTENANCE screen, select SYSTEM MAINT.

(d) Select READDRESS DOM from the menu.

1) If prompted with the pop-up message “Seat redundancy is set to ON. Turn seat redundancy to OFF”, select NO.

LOM 466-999; LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

(e) Select IS READDRESS from the menu.

(f) On the READDRESS screen, do these steps:

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1) Select the OVERHEAD MONITOR tab.
2) Set the IS to 1 and PORT to ALL using corresponding arrows.
3) Select READDRESS.

NOTE: A pop up message may display “Please wait, retrieving readdress information”

4) If prompted with the pop-up message “Seat redundancy is set to ON. Turn seat redundancy to OFF to continue readdressing”, select YES.
5) Wait for the pop-up message "Readdress Completed. Click Readdress Details to see details.”
6) Select OK on the pop-up message.

(g) Verify the READDRESS results in the table.

B. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-089

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

LOM 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

TASK 44-21-00-800-804

10. Seat Reset

A. Procedure

SUBTASK 44-21-00-860-020

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-021

(2) To reset a seat or seats, do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the System Maint button.

1) Make sure that the SYSTEM MAINTENANCE screen is shown.

(b) From the SYSTEM MAINTENANCE screen, select the Seat Maintenance button.

1) Make sure that the SEAT MAINTENANCE screen is shown.

NOTE: From the SEAT MAINTENANCE screen, the options are different depending on whether the system is in Ground or Air mode. In Air mode, certain functions are disabled.

(c) From the SEAT MAINTENANCE screen, select the Seat Reset Control button.

1) Make sure that the SEAT RESET CONTROL screen is shown.

(d) From the SEAT RESET CONTROL screen, use the ROW up/down and the SEAT up/down buttons to select a row number and a seat letter.

NOTE: All Rows or Seats can also be chosen.

(e) Select the Reset Seats button to reset the selected seat(s).

NOTE: The message, "Are you sure you want to reset?" appears.

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LOM 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999 (Continued)

(f) Select the Yes button to confirm the seat reset function.

(g) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

B. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-022

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

——— END OF TASK ———

TASK 44-21-00-400-802

11. Media Load

A. General

(1) This task loads the video and audio media, including interactive applications.

LOM 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(2) This task also activates the media.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

B. Media Load with the Portable Media Loader

SUBTASK 44-21-00-860-023

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-470-004

(2) The core head-end, seat, seat applications, and games software must be loaded (Load Software, TASK 44-21-00-400-801).

LOM 416

SUBTASK 44-21-00-470-035

(3) To load media from a PL1000 Portable Media Loader, do the steps that follow:

(a) Setup and activate the PL1000 (PL1000 Operation, TASK 44-21-00-800-805).

(b) At the Crew Terminal CABIN MAINTENANCE screen, select the Software Load button.

1) Make sure that the SOFTWARE LOAD screen is shown.

(c) At the SOFTWARE LOAD screen, select the Load Media button.

1) Make sure that the LOAD MEDIA screen is shown.

(d) At the LOAD MEDIA screen, select the PL1000 button.

(e) At the LOAD MEDIA screen, select the Load button.

1) The media load process will start and a status/progress window will appear.

(f) Wait until the media load is complete.

(g) Do a Configuration Check (Configuration Check, TASK 44-21-00-700-801) to make sure that the software loaded matches the system configuration index.

(h) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

(i) Disconnect the PL1000 (PL1000 Operation, TASK 44-21-00-800-805).

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LOM 443, 444, 446, 447, 455, 456

SUBTASK 44-21-00-470-005

(4) To load media from a PL2000 Portable Media Loader, do the steps that follow:

(a) Setup and activate the PL2000 (PL2000 Operation, TASK 44-21-00-800-806).

(b) At the Crew Terminal CABIN MAINTENANCE screen, open the Loading folder, then Load Media.

1) Make sure that the LOAD MEDIA screen is shown.

(c) At the LOAD MEDIA screen, select the PL2000 button.

(d) At the LOAD MEDIA screen, select the Load button.

1) The media load process will start and a status/progress window will appear.

(e) Wait until the media load is complete.

(f) Do a Configuration Check (Configuration Check, TASK 44-21-00-700-801) to make sure that the software loaded matches the system configuration index.

(g) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

(h) Disconnect the PL2000 (PL2000 Operation, TASK 44-21-00-800-806).

LOM 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464

SUBTASK 44-21-00-470-031

(5) To load media from a PL1000R Portable Media Loader, do the steps that follow:

(a) Insert the removable Hard Disk Drive (HDD) or Solid State Drive (SSD) into the slot on the front of the PL1000R.

(b) Push in and rotate the HDD/SSD knob to the lock position.

(c) Setup and activate the PL1000R (PL1000R Operation, TASK 44-21-00-800-821).

(d) At the Crew Terminal CABIN MAINTENANCE screen, open the Loading folder, then Load Media.

1) Make sure that the LOAD MEDIA screen is shown.

(e) At the LOAD MEDIA screen, select the PL1000R button.

(f) At the LOAD MEDIA screen, select the Load button.

1) The media load process will start and a status/progress window will appear.

(g) Wait until the media load is complete.

(h) Do a Configuration Check (Configuration Check, TASK 44-21-00-700-801) to make sure that the software loaded matches the system configuration index.

(i) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

(j) Disconnect the PL1000R (PL1000R Operation, TASK 44-21-00-800-821).

LOM 443, 444, 446, 447, 455, 456, 458-460

SUBTASK 44-21-00-470-036

(6) To load media from an On-board Media Loader, do the steps that follow:

(a) At the Crew Terminal CABIN MAINTENANCE screen, open the Loading folder, then Load Media.

1) Make sure that the LOAD MEDIA screen is shown.

(b) If loading media from a Removable Hard Disk Drive (HDD) or Solid State Drive (SSD), do the steps that follow:

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LOM 443, 444, 446, 447, 455, 456, 458-460 (Continued)

1) Push and pull the OML drive latch to the unlocked position and remove the existing removable HDD/SSD from the OML.
2) Place the removable HDD/SSD in the OML and wait for the corresponding LED to illuminate.
3) Push and turn the OML drive latch to the locked position.
4) Wait 30 seconds for the drive power ready light to go on.

(c) If loading software from a USB stick, SD Card, or CF card, insert the USB stick, SD Card, or CF card in the OML and wait for the corresponding LED to illuminate.

(d) At the LOAD MEDIA screen, select the OML button.

(e) At the LOAD MEDIA screen, select the Load button.

1) The media load process will start and a status/progress window will appear.

(f) Wait until the media load is complete.

(g) Do a Configuration Check (Configuration Check, TASK 44-21-00-700-801) to make sure that the software loaded matches the system configuration index.

(h) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

(i) Remove the Removable HDD/SSD, USB stick, SD Card, or CF card from the OML.

LOM 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

C. Media Activation

SUBTASK 44-21-00-860-024

(1) Make sure the entertainment system is initialized and logged into the Crew Terminal CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-470-006

(2) The core head-end, seat, seat applications, and games software must be loaded (Load Software, TASK 44-21-00-400-801).

SUBTASK 44-21-00-860-025

(3) To activate a media for a selected month, do the steps that follow:

(a) At the Crew Terminal CABIN MAINTENANCE screen, open the Loading folder, then Load Media.

1) Make sure that the LOAD MEDIA screen is shown.

(b) From the LOAD MEDIA screen, select the Activate Media button.

(c) From the ACTIVATE MEDIA screen, select the media day/month/year using the UP/DOWN arrow buttons.

(d) Select the Activate button to activate the media.

(e) Select the MAIN MENU icon to go to the Cabin Crew MAIN MENU screen.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

D. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-026

(1) If it is not necessary to continue to operate the system, then do this task: (Video Entertainment System - Deactivation, TASK 44-21-00-040-801).

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-00-800-805

12. PL1000 Operation

A. General

(1) This procedure tells you how to connect, disconnect, activate and deactivate the PL1000.

B. Procedure

SUBTASK 44-21-00-860-027

(1) Make sure that the Passenger Entertainment System is initialized (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-028

(2) To connect and activate the PL1000, do the steps that follow:

(a) Connect the PL1000 power cable to the AC outlet.

(b) Connect the Ethernet cable to the data/media loading port.

(c) Use the PL1000 POWER switch to turn the power on.

(d) Wait for the PL1000 to boot up (approximately two to three minutes).

1) Make sure that the PWR and LINK LEDs are illuminated.

(e) To load the software, do this task: Load Software, TASK 44-21-00-400-801.

SUBTASK 44-21-00-860-029

(3) To disconnect and deactivate the PL1000, do the steps that follow:

(a) Use the PL1000 POWER switch to turn the power off.

(b) Disconnect the PL1000 power cable from the AC outlet.

(c) Disconnect the Ethernet cable.

(d) Store the cables using the Velcro strap.

END OF TASK

LOM 443, 444, 446, 447, 455, 456

TASK 44-21-00-800-806

13. PL2000 Operation

A. General

(1) This procedure tells you how to connect, disconnect, activate and deactivate the PL2000.

B. Procedure

SUBTASK 44-21-00-860-030

(1) Make sure that the Passenger Entertainment System is initialized (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-031

(2) To connect and activate the PL2000, do the steps that follow:

WARNING

MAKE SURE THAT THE CONNECTORS ARE DISCONNECTED FROM THE EQUIPMENT AT THE TWO ENDS. OR SET THE EQUIPMENT TO OFF. THERE IS A RISK OF LASER RADIATION THAT YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.

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LOM 443, 444, 446, 447, 455, 456 (Continued)

(WARNING PRECEDES)

WARNING	DO NOT LOOK INTO THE END OF A FIBER-OPTIC CABLE. THERE IS A RISK OF LASER RADIATION, WHICH YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.
WARNING	ALWAYS USE GLOVES IF YOU MUST TOUCH BROKEN FIBER-OPTIC CABLES. IF YOU TOUCH CABLES WITH YOUR BARE HANDS, FIBERS CAN GO INTO YOUR BODY THROUGH YOUR SKIN. THIS WILL CAUSE YOU INJURY.
CAUTION	INSTALL THE PROTECTIVE CAPS IMMEDIATELY AFTER YOU DISCONNECT THE CABLE. IT IS EASY TO CAUSE DAMAGE TO THE FIBER-OPTIC CABLE.
CAUTION	DO NOT BEND THE FIBER-OPTIC CABLE MORE THAN THE MINIMUM BEND RADIUS. THE CABLE IS EASILY DAMAGED.
CAUTION	DO NOT PULL OR PUSH THE FIBER-OPTIC CABLE. THE CABLE IS EASILY DAMAGED.

(a) Remove the protective dust cap from the fiber optic cable, if applicable.

(b) Align the pin, connect the fiber optic cable to the data/media loading port, and screw the cable securely to its mounting interface.

(c) Connect the PL2000 power cable to the AC outlet.

(d) Put the selector switch to the LOAD position.

(e) Use the PL2000 power switch to turn the power on.

(f) Wait for the PL2000 to boot up (the lights will illuminate steadily).

SUBTASK 44-21-00-860-032

(3) To disconnect and deactivate the PL2000, do the steps that follow:

(a) Use the PL2000 power switch to turn the power off.

(b) Disconnect the PL2000 power cable from the AC outlet.

(c) Disconnect the fiber optic cable.

1) Align the pins and screw the protective dust cap on.

(d) Clip the fiber optic cable securely into the PL2000 mounting housing.

(e) Close the PL2000 lid and secure the fasteners.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-00-800-821

14. PL1000R Operation

A. General

(1) This procedure tells you how to connect, disconnect, activate and deactivate the PL1000R.

B. Procedure

SUBTASK 44-21-00-860-083

(1) Make sure that the Passenger Entertainment System is initialized (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-084

(2) To connect and activate the PL1000R, do the steps that follow:

(a) Connect the PL1000R power cable to an AC outlet.

(b) Open the door for the Crew Panel (CP) to gain access to the Data Loading port that is located next to the CP.

NOTE: The Data Loading port is located to the left of the CP. The Ethernet Port located on the CP is not used for loading media from the PL1000R.

(c) Connect the Ethernet cable to the Data Loading port.

(d) Use the PL1000R POWER switch to turn the power on.

(e) Wait for the PL1000R to boot up (approximately two to three minutes).

1) Make sure the PWR and LINK LEDs are illuminated.

(f) To load the software, do the task. (Load Software, TASK 44-21-00-400-801)

SUBTASK 44-21-00-860-085

(3) To disconnect and deactivate the PL1000R, do the steps that follow:

(a) Use the PL1000R POWER switch to turn the power off.

(b) Disconnect the PL1000R power cable from the AC outlet.

(c) Disconnect the Ethernet cable.

(d) Store the cables using the Velcro strap.

END OF TASK

TASK 44-21-00-800-807

15. Review Fault Trends

A. Procedure

SUBTASK 44-21-00-860-033

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-034

(2) To identify the condition of the current flight (complaint has to do with the current flight), do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the Systems Tests button.

1) Make sure that the System Test screen is shown.

(b) At the SYSTEMS TESTS screen, select the Review Flight Legs button.

1) Make sure that the REVIEW FLIGHT LEGS screen is shown.

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(c) At the REVIEW FLIGHT LEGS screen, select the Fault Trends button.

1) Make sure that the FAULT TRENDS screen is shown.

(d) At the FAULT TRENDS screen, review the information.

1) Choose the Details button if you wish to view the FAULT TRENDS DETAILS screen and see further details.

(e) Select the MAIN MENU button to go to the Cabin Crew MAIN MENU screen.

LOM 443, 444, 446, 447, 455, 456

SUBTASK 44-21-00-860-035

(3) To identify the cause of persistent complaints (usually from previous flights), do the steps that follow:

NOTE: All Tests identifies only faults that are active at the time of the test. Quick Test identifies all faults displaying intermittent behavior.

(a) From the FAULT HISTORY screen, select the Fault Trends button.

1) This will merge all fault activities from all eight flights into one report and identify problems such as intermittent, degrading, or random behavior.

(b) Select the Quick Test button to get a status of the current condition of the system.

NOTE: This is not an intrusive test. It is the only test that can be done when the aircraft is in flight.

(c) Select the HOME icon to go to the CABIN MAINTENANCE screen.

(d) Select the Systems Test button to go to the SYSTEM TESTS screen.

(e) For problems having to do with reboot or watchdog reset, go to the View Reboot Log.

1) Generate the log of in-flight reboots to determine which flight leg the reboot occurred on.

2) Reboot/reset faults are only reported once.

3) Generate all the reboot logs to determine how many times the problem(s) has(have) occurred.

(f) A maintenance decision needs to be made at this time.

(g) From the SYSTEM TESTS screen, two other functions are available:

1) Review Flight Legs.

2) Toggle Fault Display.

(h) Do the Toggle Fault Display to show either all faults (collected from all flight legs) or all active (current) faults.

(i) Select the MAIN MENU button to go to the Cabin Crew MAIN MENU screen.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

B. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-036

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

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LOM 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

TASK 44-21-00-800-808

16. Setting Air-to-Ground Mode

A. Procedure

SUBTASK 44-21-00-860-037

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-038

(2) To set the air-to-ground modes, do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the System Maint button.

1) Make sure that the SYSTEM MAINTENANCE screen is shown.

(b) From the SYSTEM MAINTENANCE screen, select the Seat Maintenance button.

1) Make sure that the SEAT MAINTENANCE screen is shown.

(c) At the SEAT MAINTENANCE screen, use the Flight Mode button to toggle between Air and Ground modes.

(d) Select the MAIN MENU button to go to the Cabin Crew MAIN MENU screen.

B. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-039

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

——— END OF TASK ———

TASK 44-21-00-800-809

17. Review Flight Leg

A. Procedure

SUBTASK 44-21-00-860-040

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-041

(2) To Review Flight Legs, do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the Systems Test button.

1) Make sure that the SYSTEM TESTS screen is shown.

(b) From the SYSTEM TESTS screen, select the Review Flight Legs button.

1) Make sure that the REVIEW FLIGHT LEGS screen is shown.

(c) From the REVIEW FLIGHT LEGS screen, select a Flight Leg button.

NOTE: Use the FLIGHT LEG screen to review the Flight Leg faults for the Leg selected. The Flight Leg buttons are activated based on the Flight Leg history.

1) Make sure that the FLIGHT LEG screen is shown.

(d) From the FLIGHT LEG screen, select the Details button to view the FLIGHT LEG DETAILS screen.

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(e) Select the MAIN MENU button to go to the Cabin Crew MAIN MENU screen.

B. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-042

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

——— END OF TASK ———

TASK 44-21-00-800-810

18. View Reboot Log

A. Procedure

SUBTASK 44-21-00-860-043

(1) Make sure the entertainment system is initialized and logged into the CABIN MAINTENANCE screen (Video Entertainment System - Activation, TASK 44-21-00-440-802).

SUBTASK 44-21-00-860-044

(2) To View Reboot Log, do the steps that follow:

(a) From the CABIN MAINTENANCE screen, select the System Tests button.

1) Make sure that the SYSTEM TESTS screen is shown.

(b) From the SYSTEM TESTS screen, select the Review Flight Legs button.

1) Make sure that the REVIEW FLIGHT LEGS screen is shown.

(c) From the REVIEW FLIGHT LEGS screen, select the View Reboot Log button to view the REBOOT LOG screen.

1) Use the REBOOT LOG screen to review summary and detailed views of the reboot log information.

NOTE: The summary combines the like-reboots and shows a quantity for how often the reboot has occurred.

2) Select the Change View button to show a list of all the reboots that have occurred including the time the reboot occurred.

NOTE: Any column may be sorted in ascending or descending order.

(d) Select the MAIN MENU button to go to the Cabin Crew MAIN MENU screen.

B. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-045

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

——— END OF TASK ———

LOM 466-999; LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

TASK 44-21-00-040-804

19. PSU Mounted Individual LCD Monitor Deactivation/Activation

A. General

(1) This task includes steps to deactivate and re-activate each individual LCD monitor.

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LOM 466-999; LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858 (Continued)

B. Location Zones

Zone	Area
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. Procedure

SUBTASK 44-21-00-040-001

(1) Do the steps that follow to deactivate the individual LCD monitor:

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

NOTE: The manual reset button overrides any electrical signal and activates immediately deployment if the monitor is stowed or not stowed.

(b) Make sure that the LCD monitor fully retracts and stows.

SUBTASK 44-21-00-440-001

(2) Do the steps that follow to re-activate the individual LCD monitor:

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

(b) Make sure that the LCD monitor fully deploys and displays video picture.

END OF TASK

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PASSENGER VIDEO SYSTEM - MAINTENANCE PRACTICE

1. **General**
   A. This procedure has these tasks:
      (1) Passenger Video System Deactivation
      (2) Passenger Video System Activation
      (3) Select Maintenance Mode
         (a) Turn on the dPAVES System
         (b) Log In to Maintenance Mode
         (c) Changing the Password
      (4) View and Offload Part Number Data
         (a) Collect Part Number
         (b) Offload Part Number Data to USB
      (5) Set Up dPAVES Configuration
         (a) Create a New Configuration File
         (b) View/Edit Existing Configuration File
         (c) Delete Configuration File
         (d) Initialize Configuration File
         (e) Offload Configuration File
      (6) Set Up ECP/HTSE Configuration
         (a) Enable/Disable the auto backlight
         (b) Set the backlight time
         (c) Enable/Disable the headset volume
         (d) Set the default headset volume
         (e) Set the default brightness level
         (f) Select a GUI skin
      (7) Retract Monitor Control
         (a) Enable/Disable the overhead monitors
         (b) Deploy/Retract the overhead monitors
         (c) Metrics Logging Report
         (d) Monitor Software Load
         (e) Monitor Reset
      (8) Use System Test Screens
         (a) View and offload the error log
         (b) Run the system BITE
         (c) Run the announcement BITE
         (d) Display a graphic for adjusting monitor alignment
         (e) Run the zone test
         (f) Display a graphic for adjusting monitor color settings
         (g) Select the ground test mode of the moving map

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(h) Enable on board test content

(9) View Keyline Status Information

(10) Reset HDMS

(11) dPAVES Content Data and Software Loading Procedures

(a) HDMS Software Service Pack/Moving Map Configuration/Moving Map Service Pack Load using HDMS

(b) HDMS Software Service Pack/Moving Map Configuration/Moving Map Service Pack Load using ECP USB Port

(c) Private Key Load Using ECP USB Port

(d) Private Key Load Using HDMS USB Port

(e) System Configuration Load Using ECP USB Port

(f) System Configuration Load Using HDMS USB Port

(g) Application Configuration Load using ECP USB Port

(h) Application Configuration Load using HDMS USB Port

(i) Audio Video Entertainment Content Full Load Using ECP USB Port

(j) Audio Video Entertainment Content Full Load Using HDMS USB Port

(k) Audio Video Entertainment Content Partial Load Using ECP USB Port

(l) Audio Video Entertainment Content Partial Load Using HDMS USB Port

(m) Audio Video Entertainment Content Quick Load Using ECP USB Port

(n) Audio Video Entertainment Content Quick Load Using HDMS USB Port

(o) Boarding Music Load Using ECP USB Port

(p) Boarding Music Load Using HDMS USB Port

(q) Announcements Load Using ECP USB Port

(r) Announcements Content Load Using HDMS USB Port

(s) Auto Mode Script Load Using ECP USB Port

(t) Auto Mode Script Load Using HDMS USB port

(u) Customer Logo Load using ECP USB Port

(v) Customer Logo Load Using HDMS USB Port

(w) Test Content Load Using ECP USB Port

(x) Test Content Load Using HDMS USB port

(12) HDMS Maintenance

(a) View Part Numbers of the HDMS Software Configuration(s)

(b) View Audio/Video Content Metadata

TASK 44-21-00-040-802-001

2. <u>Passenger Video System - Deactivation</u>

A. General

(1) This procedure removes electrical power to the passenger entertainment system.

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B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left
212	Flight Compartment - Right

C. Procedure

SUBTASK 44-21-00-860-230-001

(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
LOM 437, 438			
C	8	C01456	ENTERTAINMENT AUDIO
LOM 437-439, 441			
D	5	C01452	VIDEO 1
D	6	C01453	VIDEO 2
D	7	C01454	VIDEO 3
D	8	C01455	VIDEO 4

D. Passenger Video System - Tryout

NOTE: This tryout is to make sure the Passenger Video system is in a zero energy state.

SUBTASK 44-21-00-860-231-001

(1) Do the following steps to ensure power has been removed:

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

(b) Select Passenger Services from the attendant control panel, and press the Entertainment ON button.

NOTE: The HDMS takes five minutes to initialize.

1) Make sure that the default Power On screen is not shown on Entertainment Control Panel.

END OF TASK

TASK 44-21-00-440-803-001

3. Passenger Video System - Activation

A. General

(1) This procedure adds electrical power to the passenger entertainment system.

B. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
200	Upper Half of Fuselage
211	Flight Compartment - Left

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(Continued)

Zone	Area
212	Flight Compartment - Right

C. **Procedure**

SUBTASK 44-21-00-860-232-001

(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
LOM 437, 438			
C	8	C01456	ENTERTAINMENT AUDIO
LOM 437-439, 441			
D	5	C01452	VIDEO 1
D	6	C01453	VIDEO 2
D	7	C01454	VIDEO 3
D	8	C01455	VIDEO 4

SUBTASK 44-21-00-860-233-001

(2) Do the following steps to ensure power has been restored:

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

(b) Select Passenger Services from the attendant control panel, and press the Entertainment ON button.

NOTE: The HDMS takes five minutes to initialize.

1) Make sure that the default Power On screen is shown on Entertainment Control Panel.

——— **END OF TASK** ———

TASK 44-21-00-800-811

4. **Select the Maintenance Mode**

A. **General**

(1) The maintenance mode is used by an airline technician to perform installation, periodic troubleshooting, and other maintenance practices.

B. **References**

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. **Location Zones**

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D. Prepare to Select the Maintenance Mode

SUBTASK 44-21-00-860-049

(1) If it is necessary do this task: Supply Electrical Power, TASK 24-22-00-860-811.

SUBTASK 44-21-00-860-048

(2) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC
LOM 437, 438			
C	8	C01456	ENTERTAINMENT AUDIO
LOM 437-439, 441			
D	5	C01452	VIDEO 1
D	6	C01453	VIDEO 2
D	7	C01454	VIDEO 3
D	8	C01455	VIDEO 4

E. Procedure

SUBTASK 44-21-00-890-001

(1) Turn on the dPAVES System

(a) Make sure that the IFE/PASS SEAT switch on the P5 overhead panel in the cockpit is set to ON.

(b) Select Passenger Services from the attendant control panel, and press the Entertainment ON button to power on the IFE system.

NOTE: Wait five minutes for the HDMS to initialize.

1) Make sure that the default Power On screen is shown on Entertainment Control Panel.

SUBTASK 44-21-00-890-004

(2) Log In to Maintenance Mode

(a) Select the Maintenance tab on the ECP.

1) Make sure that the Mode Exit Confirmation popup screen is shown.

(b) Select the Yes button on the Mode Exit Confirmation popup.

1) Make sure that the Maintenance Mode Login screen is shown.

(c) Enter the correct password on the Maintenance Mode Login screen and select the Login button.

1) Make sure that the Maintenance Mode Main Menu is shown.

SUBTASK 44-21-00-890-005

(3) Changing the Maintenance Login Password

(a) From the Maintenance Mode Main Menu, select the Change password button.

1) Make sure that the Change Password popup menu is shown.

(b) Select the Enter Old Password box and type in the old password using the alphanumeric keypad.

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(c) Select the Enter New Password box and type in the new password using the alphanumeric keypad.

NOTE: A password may be up to 4 digits in length.

(d) Select the Confirm New Password box and re-enter the new password using the alphanumeric keypad.

(e) Select the OK button to change the password.

NOTE: Click the Cancel button to exit the popup without making any changes to the password.

NOTE: If the old password is entered incorrectly, "Old Password Is Incorrect. Try Again" will appear.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-050

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-00-860-051

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

——— END OF TASK ———

TASK 44-21-00-800-812

5. View and Offload Part Number Data

A. General

(1) This procedure tells you how to view and offload part number data.

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the maintenance procedure

SUBTASK 44-21-00-860-052

(1) Make sure that the IFE system is operational

(a) Do the task to select the Maintenance mode: Select the Maintenance Mode, TASK 44-21-00-800-811.

E. Procedure

SUBTASK 44-21-00-890-006

(1) Collect Parts

(a) From the Maintenance Mode Main Menu, select the View Part Numbers button.

1) Make sure that the View Part Numbers menu is shown.

(b) Select the Collect Part Number button.

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1) Make sure that the Collecting Part Number is in Progress popup is shown.

NOTE: The part number collection process can be aborted at any time by selecting the Abort button.

(c) Make sure that when part number collection is complete, the screen lists hardware and software part numbers is shown.

SUBTASK 44-21-00-890-007

(2) Offload Part Number Data to USB

NOTE: The part number information can be off-loaded to a USB device connected to any of the dPAVES USB connectors.

(a) From the View Part Numbers screen, select the Offload to USB button.

1) Make sure that the Offload to USB popup menu is shown.

(b) Select the USB interface to which the USB drive is connected and select the OK button to offload the data.

NOTE: Select the Cancel button to close the Offload to USB popup menu without offloading data.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-053

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-00-860-054

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

TASK 44-21-00-800-813

6. Set Up dPAVES Configuration

A. General

(1) The Configuration Setup screen provides options for performing the following tasks:

- Create a new configuration file
- View/Edit an existing system configuration file
- Delete a configuration file
- Initialize a configuration file
- Offload a configuration file

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D. Prepare for the maintenance procedure

SUBTASK 44-21-00-860-055

(1) Make sure that the IFE system is operational

(a) Do the task to select the Maintenance mode: Select the Maintenance Mode, TASK 44-21-00-800-811.

E. Procedure

SUBTASK 44-21-00-890-008

(1) Create a New Configuration File

(a) From the Maintenance Mode Main Menu screen, select the Configuration Setup button.

1) Make sure that the Configuration Setup screen is shown.

(b) From the Configuration Setup screen, Click the Create New File button.

1) Make sure that the Aircraft Configuration screen is shown.

(c) From the Aircraft Configuration screen, select the correct aircraft configuration for the following:

- Aircraft Type
- Zone Type
- TU/HD Retract
- Monitor Type
- AMUX Type
- FDL Enable

(d) Select the Next button.

1) Make sure that the LRU Configuration screen is shown.

(e) From the LRU Configuration screen, select the correct aircraft configuration for the following:

- AUX 1
- AUX 2
- Differential and Single-Ended options
- Mode Enabled
- Default Power Up Mode
- Non-Linear/Linear mode
- Video Category Enabled
- Auto Mode Failure Handling

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- Play when Retracts Deployed

NOTE: The Differential and Single-Ended options are enabled only if an auxiliary source (VTR, Live TV, Camera, Auxiliary) is selected for either AUX 1 or AUX 2.

NOTE: If Non-Linear is selected, the skip back button on the Auto mode screen is inactive.

NOTE: Select the Video Category Enabled box to enable this feature if the video programs are arranged in categories. Remove the check mark if the programs are not categorized.

NOTE: Place a check mark in the Play when Retracts Deployed box if you want dPAVES to automatically begin playing the currently selected video when the monitors deploy. Remove the check mark if you do not want the video to automatically play.

(f) Use the arrow keys to set the default Boarding Music Volume.

NOTE: The maximum volume level for Boarding Music is 7.

(g) Use the arrow keys to set the default Video PA Volume.

NOTE: The maximum volume level for VPA is 7.

(h) Select the Next button.

1) Make sure that the High Definition Overhead Monitor (HDOM) Setup screen is shown.

(i) From the HDOM Setup screen, select the HDOMs (Left) box and enter the number of HDOMs assigned.

NOTE: The maximum number of HDOMs in a column is 15.

(j) Select the HDOMs (Right) box and enter the number of HDOMs assigned.

NOTE: The maximum number of HDOMs in a column is 15.

(k) Select the Next button.

1) Make sure that the AMUX Settings screen is shown.

(l) From the AMUX Settings screen, select the correct aircraft configuration for the following:

- Back Channel
- Key Format
- Dim Timeout Step Count
- DPCU Backlight Intensity
- Maximum DPCU Volume
- Test Tone
- AMUX CIDS Interface

NOTE: The Key Format feature is for the Back Channel DPCU.

NOTE: The Step Count value ranges from 0 to 7.

(m) Repeatedly select the Next button until the desired AMUX Zone screen is shown.

(n) From the desired AMUX Zone screen, select the correct aircraft configuration for the following:

- Video Mode
- Audio Mode
- Default DPCU Channel

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- Default DPCU Volume
- Minimum PA Volume

NOTE: When the system is in Video Mode, the DPCUs use the channel configuration defined in the Video Mode. When the system is in Audio Mode, the DPCUs use the channel configuration defined in the Audio Mode. The screen also enables the assigning of HDMS-supplied input audio channels to DPCU channels. A passenger can use the in-seat DPCU to select a DPCU channel.

NOTE: The volume value ranges from 0 to 20.

NOTE: If the volume setting of a DPCU is lower than the minimum PA volume when the PA mode becomes active (i.e., when audio begins coming from the PA system to the AMUX), dPAVES temporarily increase the volume setting of the DPCU to match the minimum PA volume. When the PA mode is no longer active, dPAVES restores the original volume setting of the DPCU.

(o) Select the Next button.

1) Make sure that the AUX Channel Setup screen is shown.

(p) From the AUX Channel Setup screen, select the correct aircraft configuration for the following:

- AUX 1 Input
- AUX 2 Input
- Moving Map Input

NOTE: As many as two auxiliary analog video sources (e.g., TV, DVD player) may be connected to the HDMS. Auxiliary-device-supplied input audio channels 1 and 2 come from one auxiliary analog video source, and auxiliary-device-supplied input audio channels 3 and 4 come from the other analog video source.

(q) Select the Next button.

1) Make sure that the Seat Configuration screen is shown.

(r) From the Seat Configuration screen, select the SEBs (Right) box and enter the amount of SEBs in the numerical popup.

1) Select the OK button to return to the Seat Configuration screen.

(s) Select the SEBs (Left) box and enter the amount of SEBs in the numerical popup.

1) Select the OK button to return to the Seat Configuration screen.

(t) Select the Apply button to set the number of SEBs for each column.

(u) Select any seat number box.

1) Make sure that the Seat Map Configuration popup is shown.

(v) From the Seat Map Configuration popup screen, select the seat box and enter a letter value (i.e., A, B, C).

(w) Select the Column box and enter a numerical value (i.e., 1-99).

(x) Select the Installed button to Install the seat map. Select the Not Installed button to disable the seat map.

(y) Select the correct Zone for this aircraft configuration.

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(z) Select Apply button to install a single seat map. Select the Auto Apply Button to apply the seat map to all seats in a row and column following the current seat.

NOTE: The Apply button will apply the properties to one seat, the Auto Apply button applies the properties to all seats in a row and column following the selected seat.

(aa) Select the Next button.

1) Make sure that the Moving Map Menu screen is shown.

(ab) From the Moving Map Menu screen, select the correct Moving Map options.

NOTE: By default, all the available Moving Map menu items are enabled.

(ac) Select the Next button.

1) Make sure that the Save File Confirmation screen is shown.

(ad) From the Save File Confirmation screen, Select the Save As button.

1) Make sure that the Save As Filename popup screen is shown.

(ae) From the Save As Filename popup screen, enter a new file name using the alpha numeric keypad.

NOTE: A new file name must be entered. If an existing file name is entered, system will detect that the file name is already in use.

(af) Select the Save and Initialize button to save and initialize the new configuration file.

Select the Save w/o Initializing button to save the configuration file without initializing it.

Select the Cancel button to exit without saving.

SUBTASK 44-21-00-890-015

(2) View/Edit Existing Configuration File

(a) From the Configuration Setup screen, select the name of the file to be edited or viewed and select the View/Edit File button.

(b) Edit/view the configuration file.

(c) Select Save As button to save the configuration with a different file name.

SUBTASK 44-21-00-890-016

(3) Delete Configuration File

(a) From the Configuration Setup screen, select the name of the file to be deleted and select the delete File button.

NOTE: The Delete option is disabled if the selected configuration file is the active configuration file.

1) Make sure that the Delete Confirmation Popup screen is shown.

(b) From the Delete Confirmation Popup screen, select the Yes button.

SUBTASK 44-21-00-890-017

(4) Initialize Configuration File

(a) From the Configuration Setup screen, select the name of the file to be Initialized and select the Initialize Config File button.

1) Make sure that the Configuration File Initialization popup screen is shown.

NOTE: Select the Abort button on the popup to abort the initialization.

NOTE: The HDMS automatically reset and the initialized file becomes the active configuration after initialization ends.

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SUBTASK 44-21-00-890-018

(5) Offload Configuration File

NOTE: The Configuration Setup screen allows the offloading of a system configuration file to a USB device connected to the ECP or HDMS USB connector.

(a) From the Configuration Setup screen, select the name of the file to be offloaded and select the Offload to USB button.

1) Make sure that the Offload to USB popup screen is shown.

(b) From the Offload to USB popup screen, Select the connector to which the USB device is connected.

(c) Select the OK button to offload the configuration file to the selected USB device.

NOTE: Select the Cancel button to close the popup without offloading a file.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-056

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-00-860-057

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

TASK 44-21-00-800-814

7. Set Up ECP/HTSE Configuration

A. General

(1) The ECP Setup screen has options for performing the following tasks:

- Enable/Disable the auto backlight
- Set the backlight time
- Enable/Disable the headset volume
- Set the default headset volume
- Set the default brightness level
- Select a GUI skin

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the maintenance procedure

SUBTASK 44-21-00-860-058

(1) Make sure that the IFE system is operational

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(a) Do the task to select the Maintenance mode: Select the Maintenance Mode, TASK 44-21-00-800-811.

E. Procedure

SUBTASK 44-21-00-890-009

(1) Enable/Disable the Auto Backlight

(a) From the Maintenance Mode Main Menu, select the ECP Setup button.

1) Make sure that the ECP Configuration screen is shown.

(b) Select the Auto Backlight Off Enable button.

NOTE: Selecting this option causes dPAVES to turn off the ECP backlight after a set amount of time. The backlight turns back on when the ECP monitor face is touched.

SUBTASK 44-21-00-890-019

(2) Set Backlight Off Time

(a) From the ECP Configuration screen, select the Auto Backlight Off minutes field.

1) Make sure that the Backlight Off Time popup screen is shown.

(b) From the Backlight Off Time popup screen, enter the backlight off time using the numeric keypad.

(c) Select the OK button to set the backlight off time.

SUBTASK 44-21-00-890-020

(3) Set Headset Default Volume

(a) From the ECP Configuration screen, select the Headset Volume Enable button to enable the ECP headset.

NOTE: Select the Disable button to disable the headset.

(b) Select the Right Arrow button to increase the ECP headset default volume. Press the Left Arrow button to decrease the ECP headset default volume.

SUBTASK 44-21-00-890-021

(4) Set Brightness Default

(a) From the ECP Configuration screen, Select the Right Arrow button to increase the default ECP display brightness. Press the Left Arrow button to decrease the default ECP display brightness.

SUBTASK 44-21-00-890-022

(5) Select GUI Skin

(a) From the ECP Configuration screen, select the desired skin and click the Apply Skin button.

NOTE: Skin 1 is enabled by default.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-059

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

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SUBTASK 44-21-00-860-060

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

TASK 44-21-00-800-815

8. Retract Monitor Control

A. General

(1) The Monitor Control screen has options for performing the following tasks:

- Enable/Disable the overhead monitors
- Deploy/Retract the overhead monitors

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the maintenance procedure

SUBTASK 44-21-00-860-061

(1) Make sure that the IFE system is operational

(a) Do the task to select the Maintenance mode: Select the Maintenance Mode, TASK 44-21-00-800-811.

E. Procedure

SUBTASK 44-21-00-890-010

(1) Enable/Disable Overhead Monitors

(a) From the Maintenance Mode Main Menu, select the Retract Monitor Control button.

1) Make sure that the Monitor Control screen is shown.

(b) From the Monitor Control screen, select the Select All Monitors check box and then press the Enable or Disable button to enable or disable all overhead monitors.

1) Make sure that the Performing Requested Operation Please Wait popup screen is shown.

2) Make sure that all monitors enables/disable.

(c) Select the Select Zone 1 check box and then press the Enable or Disable button to enable or disable all monitors in Zone 1.

1) Make sure that the Performing Requested Operation Please Wait popup screen is shown.

2) Make sure that all monitors in Zone 1 enables/disable.

(d) Select the HD Retract check box of an individual monitor, and then select the Enable or Disable button to enable or disable the selected monitor.

1) Make sure that the Performing Requested Operation Please Wait popup screen is shown.

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2) Make sure that the selected monitor enables/disable.

SUBTASK 44-21-00-890-023

(2) Deploy/Retract Overhead Monitors

(a) From the Maintenance Mode Main Menu, select the Retract Monitor Control button.

1) Make sure that the Monitor Control screen is shown.

(b) From the Monitor Control screen, select the Select All Monitors check box and then press the Deploy or Retract button to Deploy or Retract all overhead monitors.

1) Make sure that the Performing Requested Operation Please Wait popup screen is shown.

2) Make sure that all monitors Deploy/Retract.

(c) Select the Select Zone 1 check box and then press the Deploy or Retract button to Deploy or Retract all monitors in Zone 1.

1) Make sure that the Performing Requested Operation Please Wait popup screen is shown.

2) Make sure that all monitors in Zone 1 Deploy/Retract.

(d) Select the HD Retract check box of an individual monitor, and then select the Deploy or Retract button to Deploy or Retract the selected monitor.

1) Make sure that the Performing Requested Operation Please Wait popup screen is shown.

2) Make sure that the selected monitor Deploy/Retract.

SUBTASK 44-21-00-890-024

(3) Metrics Logging Report

(a) From the Maintenance Mode Main Menu, select the Retract Monitor Control button.

1) Make sure that the Monitor Control screen is shown.

(b) From the Monitor Control screen, select the Metrics Logging Report button.

1) Make sure that the Metrics Logging Report screen showing Elapsed Time, Retract Count and Zone Information of the monitors is shown.

(c) From the Metrics Logging Report screen, select the Refresh button to refresh the metrics data.

SUBTASK 44-21-00-890-025

(4) Monitor Software Load

(a) From the Maintenance Mode Main Menu, select the Retract Monitor Control button.

1) Make sure that the Monitor Control screen is shown.

(b) From the Monitor Control screen, select the Software Load button.

1) Make sure that the Software Load screen is shown.

(c) From the Software Load screen, Select the Select All button to load software to all monitors, or select individual monitors to load software to the individual monitors.

(d) Select Controller SW or HDOM VCB to load software to the specified board.

NOTE: The software for each board type must be loaded individually, as a reset of the HDOM LRU is required to complete the software load.

(e) Select either Auto or Forced load option as the load type.

(f) Select the Start Load button to initiate software load.

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1) Make sure that the Software Load-In Progress popup screen is shown.

NOTE: The software load process will take approximately 20 to 30 minutes to complete. During this time the ECP GUI is unavailable for other operations.

NOTE: Once the software load process is complete, the software load screen will display the status of the load process for all selected monitors.

NOTE: Any error during software loading process will displayed on the Software Load-Error Status screen.

SUBTASK 44-21-00-890-026

(5) Monitor Reset

(a) From the Maintenance Mode Main Menu, select the Retract Monitor Control button.

1) Make sure that the Monitor Control screen is shown.

(b) From the Monitor Control screen, select the Monitor Actions button.

1) Make sure that the Monitor Actions screen is shown.

(c) From the Monitor Actions screen, select individual monitors to reset by selecting the check box next to each monitor, or select all monitors for reset by selecting the Select All button.

(d) Select the Reset Monitor button to reset selected HDOMs.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-062

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-00-860-063

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

TASK 44-21-00-800-816

9. Use System Test Screens

A. General

(1) After the System Test button of the Maintenance Mode Main Menu is pressed, buttons appear that enable the technician to perform the following tasks:

- View and offload the error log
- Run the system BITE
- Run the announcement BITE
- Display a graphic for adjusting monitor alignment
- Run the zone test
- Display a graphic for adjusting monitor color settings
- Select the ground test mode of the moving map
- Enable on board test content

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the maintenance procedure

SUBTASK 44-21-00-860-064

(1) Make sure that the IFE system is operational

(a) Do the task to select the Maintenance mode: Select the Maintenance Mode, TASK 44-21-00-800-811.

E. Procedure

SUBTASK 44-21-00-890-011

(1) View and Offload Error Log

(a) From the Maintenance Mode Main Menu, Select the System Test button.

1) Make sure that the System Test screen is shown.

(b) From the System Test screen, select the Error Log button.

1) Make sure that the Error Logs screen is shown.

(c) For each LRU on the Error Logs screen, ensure that the box is checked if error information about the LRU is desired.

(d) Select the Collect Error Log button.

NOTE: Error Log collection can be aborted by clicking the Abort button on the popup.

1) Make sure that the Collecting Error log in Progress popup screen is shown.

2) Make sure that the Error Log data in the Show Error Log panel is shown.

(e) Select the individual LRU check boxes to filter the error log data by LRU.

(f) If necessary, Select the Offload to USB button.

1) Make sure that the Offload to USB popup screen is shown.

(g) From the Offload to USB popup screen, select the USB interface to which the USB drive is connected and select the OK button to offload the error log data.

NOTE: Select the Cancel button to close popup menu without offloading data.

(h) Select the Clear Log button to clear the error log.

NOTE: All error logs (current and archived) will be deleted.

1) Make sure that the Clear Error Logs Confirmation popup is shown.

(i) From the Clear Error Logs Confirmation popup screen, select the OK button.

SUBTASK 44-21-00-890-027

(2) Run the System BITE

(a) From the Maintenance Mode Main Menu, Select the System Test button.

1) Make sure that the System Test screen is shown.

(b) From the System Test screen, select the System BITE button.

1) Make sure that the System BITE screen is shown.

(c) From the System BITE screen, select the Run BITE button.

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1) Make sure that the System BITE popup screen is shown.

NOTE: The system BITE can be aborted at any time during the test by selecting the Abort button on the popup screen.

(d) Once the system BITE is complete, select the Last BITE Result button.

1) Make sure that the BITE result is shown.

SUBTASK 44-21-00-890-028

(3) Run Announcement BITE

(a) From the Maintenance Mode Main Menu, Select the System Test button.

1) Make sure that the System Test screen is shown.

(b) From the System Test screen, select the Announcement BITE button.

1) Make sure that the Announcement BITE screen is shown.

(c) From the Announcement BITE screen, select the Run BITE button.

1) Make sure that the in-progress icon next to the Run BITE button is shown.

NOTE: The announcement BITE can be aborted at any time during the test by selecting the Abort button next to the Run BITE button.

(d) Once the Announcement BITE test is complete, select the Last BITE Result button.

1) Make sure that the BITE result is shown.

SUBTASK 44-21-00-890-029

(4) Display Monitor Alignment Graphic

(a) From the Maintenance Mode Main Menu, Select the System Test button.

1) Make sure that the System Test screen is shown.

(b) From the System Test screen, select the Perform System Test button.

1) Make sure that the Perform System Test screen is shown.

(c) From the Perform System Test screen, select the Monitor Alignment button.

1) Make sure that the Monitor Alignment Test is in Progress popup screen is shown on the ECP.

2) Make sure that the overhead monitors deploy.

3) Make sure that the adjustment test graphic is shown on each overhead monitors.

NOTE: The monitor alignment test can be stopped at any time during the test by selecting the Exit Test button on the popup screen.

SUBTASK 44-21-00-890-030

(5) Run Zone Test

(a) From the Maintenance Mode Main Menu, Select the System Test button.

1) Make sure that the System Test screen is shown.

(b) From the System Test screen, select the Perform System Test button.

1) Make sure that the Perform System Test screen is shown.

(c) From the Perform System Test screen, select the Zone Test button.

1) Make sure that the Zone Verification Test is in Progress popup screen is shown on the ECP.

2) Make sure that the overhead monitors deploy.

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3) Make sure that each monitor identifies the zone to which the monitor belongs.

NOTE: The zone test can be stopped at any time during the test by selecting the Exit Test button on the popup.

SUBTASK 44-21-00-890-031

(6) Display Color Bar Graphic

(a) From the Maintenance Mode Main Menu, Select the System Test button.

1) Make sure that the System Test screen is shown.

(b) From the System Test screen, select the Perform System Test button.

1) Make sure that the Perform System Test screen is shown.

(c) From the Perform System Test screen, select the Color Bar Test button.

1) Make sure that the Color Bar Test is in Progress popup screen is shown on the ECP.

2) Make sure that the overhead monitors deploy.

3) Make sure that the adjustment test graphic is shown on each overhead monitors.

NOTE: The color bar test can be stopped at any time during the test by selecting the Exit Test button on the popup.

SUBTASK 44-21-00-890-032

(7) Select Moving Map Ground Test Mode

(a) From the Maintenance Mode Main Menu, Select the System Test button.

1) Make sure that the System Test screen is shown.

(b) From the System Test screen, select the Perform System Test button.

1) Make sure that the Perform System Test screen is shown.

(c) From the Perform System Test screen, select the Toggle Moving Map Ground Test box.

NOTE: Before dPAVES is ready to use, reset the HDMS to reactivate the profile mode.

SUBTASK 44-21-00-890-033

(8) Enable On-Board Test Content

(a) From the Maintenance Mode Main Menu, Select the System Test button.

1) Make sure that the System Test screen is shown.

(b) From the System Test screen, select the Perform System Test button.

1) Make sure that the Perform System Test screen is shown.

(c) From the Perform System Test screen, select the Enable On-Board Test Content box.

1) Make sure that the Enable Test Content Warning popup screen is shown.

NOTE: When the test content no longer is useful, turn off and on dPAVES or reset the HDMS.

NOTE: The operation can be aborted by selecting the Cancel button on the popup screen.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-065

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

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SUBTASK 44-21-00-860-066

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

——— END OF TASK ———

TASK 44-21-00-800-817

10. View Keyline Status Information

A. General

(1) The System Test Keyline Status screen displays the status of keylines controlled by the HDMS and monitored by the aircraft and the decompression keyline, which is controlled by the aircraft and monitored by the HDMS.

(2) The screen also provides options to test keyline status changes by initiating a zonal video or VPA.

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the maintenance procedure

SUBTASK 44-21-00-860-067

(1) Make sure that the IFE system is operational

(a) Do the task to select the Maintenance mode: Select the Maintenance Mode, TASK 44-21-00-800-811.

E. Procedure

SUBTASK 44-21-00-890-012

(1) View Keyline Status Information

(a) From the Maintenance Mode Main Menu, Select the System Test button.

1) Make sure that the System Test screen is shown.

(b) From the System Test screen, select the Keyline Status button.

1) Make sure that the Perform System Test Keyline Status screen is shown.

NOTE: Select the Up Arrow and Down Arrow buttons to scroll through all available keylines.

(c) Select the Play Movie box for the applicable zone to play a video program in the selected zone.

(d) Select the Play VPA box for the applicable zone to play a video announcement in the selected zone.

NOTE: Status low indicates that the keyline is in an active state. Status high means that the keyline is in an inactive state.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-068

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

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(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-00-860-069

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

——— END OF TASK ———

TASK 44-21-00-800-818

11. Reset HDMS

A. General

(1) Maintenance Mode provides options to reset the HDMS from within any of the maintenance mode screens. The following reset options are available:

- HDMS Box Reset: Resets the entire HDMS
- PAVES Audio Visual Module (PAVM) Davinci 1 Reset: Resets the Davinci 1 processor
- PAVM Davinci 2 Reset: Resets the Davinci 2 processor
- VCB Reset: Resets the Video Control Board (VCB)

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the maintenance procedure

SUBTASK 44-21-00-860-070

(1) Make sure that the IFE system is operational

(a) Do the task to select the Maintenance mode: Select the Maintenance Mode, TASK 44-21-00-800-811.

E. Procedure

SUBTASK 44-21-00-890-013

(1) Reset the HDMS

(a) From the Maintenance Mode Main Menu screen, select the HDMS Reset button.

1) Make sure that the HDMS Reset popup screen is shown.

(b) Select the HDMS Box Reset box and then select the OK button to reset the HDMS.

NOTE: Select the Cancel button to close the popup without resetting the HDMS.

(c) Select the PAVM Davinci 1 Reset box and then select the OK button to reset the PAVM Davinci 1 processor.

NOTE: Select the Cancel button to close the popup without resetting the Davinci 1 processor.

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(d) Select the PAVM Davinci 2 Reset box and then select the OK button to reset the PAVM Davinci 2 processor.

NOTE: Select the Cancel button to close the popup without resetting the Davinci 2 processor.

(e) Select the VCB Reset box and then select the OK button to reset the VCB.

NOTE: Select the Cancel button to close the popup without resetting the VCB.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-071

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-00-860-072

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

——— END OF TASK ———

TASK 44-21-00-800-819

12. dPAVES Content Data and Software Loading Procedures

A. General

(1) dPAVES offers several methods for loading software and installing/updating encrypted and non encrypted content on the High Definition Media Server (HDMS). The preferred method for loading or updating large amount of content is using the Frequency Data Link (FDL). The FDL is located in the Video Control Center (VCC). An optional method of loading is using the Universal Serial Bus (USB) port on the HDMS.

(2) The FDL has several interfaces for loading and off-loading data to and from the aircraft. The Blu-ray™ DVD/CD-RW drive is used for bulk loading of digital content such as movies and audio. The USB ports are primarily used for loading smaller volumes of content (e.g., Digital Daily News), operational data off-loading, and software loading.

(3) The loading procedures are designed for ease of use and require no user intervention during the loading process. The system is designed to accomplish partial loading in the background so that existing content and normal system operation are still available throughout the load process.

(4) dPAVES content loading can be performed as a full load, partial load or quick load. A full load completely erases the existing entertainment content on the HDMS hard drive. A partial load only deletes the expired content load files and retains the existing content files still identified in the new metadata. The quick load is used to replace data that is frequently updated and consists of these types of media:

- Video and audio entertainment programming content (e.g., Digital Daily News)
- Boarding Ground Music (BGM)
- Cabin Announcements programming (ANN)

(5) The following characteristics should be understood prior to initiating a content load:

- A full load requires up to 4 hours (depending on the content being delivered)
- Normal system operation is not available during full content loading
- All existing content of the type being loaded are deleted at the beginning of a full load. For example, if loading entertainment content, all existing entertainment content will be deleted

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- If power interruption occurs during loading, the system will resume the load when power is restored.

(6) To avoid service disruption or loss of announcements due to content availability, full content loads should only occur while the aircraft is on the ground for the full duration of the load.

(7) Content can also be loaded using the USB port on the Entertainment Control Panel (ECP) or front USB port on the HDMS. This procedure is recommended for copying small media files or non-encrypted content.

(8) A private key must be loaded before encrypted content is loaded.

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the maintenance procedure

SUBTASK 44-21-00-860-073

(1) Make sure that the In-Flight Entertainment (IFE) system is operational.

(a) Do the task to select the Maintenance mode: Select the Maintenance Mode, TASK 44-21-00-800-811.

E. Procedure

SUBTASK 44-21-00-470-007

(1) HDMS Software Service Pack/Moving Map Configuration/Moving Map Service Pack Load using HDMS.

(a) Make sure that the HDMS is powered up and operational.

NOTE: Wait five minutes for the HDMS to initialize.

NOTE: To view status during the loading process, deploy the monitors. The loading status can also be viewed on the ECP preview window.

(b) If the Auto mode is selected, select the Manual mode tab.

1) Make sure that the Mode Exit Confirmation popup screen is shown.

(c) From the Mode Exit Confirmation popup screen, select the Yes button.

(d) Make sure that the Moving Map is the currently selected video source.

(e) Insert the HDMS Service Pack Software/ Moving Map configuration/Moving Map Service Pack USB key into the front USB port of the HDMS.

NOTE: Do not remove power from the unit or remove the key until the installation has completed.

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1) Make sure that the HDMS power Light Emitting Diode (LED) is green and the Built-In-Test Equipment (BITE) LED is red. The monitors and ECP display an installation status screen showing the software part number(s) and a timer counts down the wait period.

NOTE: If the USB installation key is removed within the countdown period, the installation is cancelled. If a power interruption occurs while the USB is copying, it resumes when power is restored.

NOTE: If the USB key file is corrupted, the ECP will display "HDMS STATUS: Not Communicating " message. Please wait for one minute and remove the USB key. Replace the corrupt USB key and restart service pack loading.

2) Make sure that the status screen indicates 100% when the installation files have been copied successfully. The screen will request that the USB key be removed.

(f) Remove the USB installation key.

1) Make sure that the HDMS resets and begin installing the copied files.

NOTE: The installation may take 10-60 minutes.

NOTE: The ECP is unavailable during the installation.

NOTE: The installation is complete when the HDMS resets and the ECP becomes available.

(g) To verify the software part number from the ECP, select the Maintenance tab.

1) Make sure that the Mode Exit Confirmation popup screen is shown.

(h) From the Mode Exit Confirmation popup screen, select the Yes button.

1) Make sure that the Maintenance Mode Login screen is shown.

(i) From the Maintenance Mode Login screen, enter the correct passcode and select the Login button.

1) Make sure that the Maintenance Mode Main Menu screen is shown.

(j) From the Maintenance Mode Main Menu screen, select the Switch to HDMS Test button.

1) Make sure that the Switch to HDMS Test Graphical User Interface (GUI) Warning Message popup screen is shown.

(k) From the Switch to HDMS Test GUI Warning Message popup screen, select the OK button.

1) Make sure that the HDMS Test GUI home page screen is shown.

(l) From the HDMS Test GUI home page screen, select the Airshow Maintenance button.

1) Make sure that the Airshow Maintenance Home Menu screen is shown.

(m) From the Airshow Maintenance Home Menu screen, select the Press the Production Support button.

1) Make sure that the Airshow Production Support screen is shown.

(n) From the Airshow Production Support screen, select the Software Configuration button.

1) Make sure that the Airshow Software Configuration screen is shown.

2) Make sure that the correct software part number(s) is shown.

(o) From the Airshow Software Configuration screen, select the Close button.

1) Make sure that the HDMS Test GUI Home page screen is shown.

(p) From the HDMS Test GUI Home page screen, select the Close button.

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1) Make sure that the HDMS resets.

NOTE: There is an optional method to verify the HDMS Software Service Pack or Moving Map configuration part number. Refer to Accessing HDMS maintenance port, HDMS Maintenance, TASK 44-21-00-800-820.

SUBTASK 44-21-00-470-008

(2) HDMS Software Service Pack/Moving Map Configuration/Moving Map Service Pack Load using ECP USB Port.

(a) Make sure that the HDMS is powered up and operational.

NOTE: Wait five minutes for the HDMS to initialize.

NOTE: To view status during the loading process, deploy the monitors. The loading status can also be viewed on the ECP preview window.

(b) If the Auto mode is selected, select the Manual mode tab.

1) Make sure that the Mode Exit Confirmation popup screen is shown.

(c) From the Mode Exit Confirmation popup screen, select the Yes button.

(d) Make sure that the Moving Map is the currently selected video source.

(e) Insert the HDMS Service Pack Software/ Moving Map configuration/Moving Map Service Pack USB key into the front USB port of the ECP.

NOTE: Do not remove power from the unit or remove the key until the installation has completed.

1) Make sure that the HDMS power LED is green and the BITE LED is red. The monitors and ECP display an installation status screen showing the software part number(s) and a timer counts down the wait period.

NOTE: If the USB installation key is removed within the countdown period, the installation is cancelled. If a power interruption occurs while the USB is copying, it resumes when power is restored.

NOTE: If the USB key file is corrupted, the ECP will display "HDMS STATUS: Not Communicating " message. Please wait for one minute and remove the USB key. Replace the corrupt USB key and restart service pack loading.

2) Make sure that the status screen indicates 100% when the installation files have been copied successfully. The screen will request that the USB key be removed.

(f) Remove the USB installation key.

1) Make sure that the HDMS resets and begin installing the copied files.

NOTE: The installation may take 10-60 minutes.

NOTE: The ECP is unavailable during the installation.

NOTE: The installation is complete when the HDMS resets and the ECP becomes available.

SUBTASK 44-21-00-470-009

(3) Private Key Load Using ECP USB Port

NOTE: Private Key loading is required ONLY if the subsequent full or partial Load content contains encrypted content.

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

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1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the More button to display the next Content Loading page.

1) Make sure that the second page of the Content Loading screen is shown.

(d) From the second page of the Content Loading screen, select the Private Key button.

(e) Insert the USB key with the private key into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the Load Progress field displays 100%.

2) Make sure that the Load Result field displays Success.

(f) Remove the USB key.

(g) Reset the HDMS to complete private key loading.

NOTE: The Private Key Load does not take effect until the HDMS has been powered off and on or is reset.

SUBTASK 44-21-00-470-010

(4) Private Key Load Using HDMS USB Port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the private key into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

NOTE: This step may take less than one minute.

(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

(d) Reset the HDMS to complete private key loading.

NOTE: The Private Key Load does not take effect until the HDMS has been powered off and on or is reset.

NOTE: The loading status can also be monitored from the ECP Content Loading screen

SUBTASK 44-21-00-470-011

(5) System Configuration Load Using ECP USB Port

NOTE: Perform this procedure only when instructed by a Rockwell Collins service bulletin or when the HDMS is replaced.

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the System Configuration button.

(d) Insert the USB key with the system configuration into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

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1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

(e) Remove the USB key.

(f) Perform system configuration file initialization: Set Up dPAVES Configuration, TASK 44-21-00-800-813.

SUBTASK 44-21-00-470-012

(6) System Configuration Load Using HDMS USB Port

NOTE: Perform this procedure only when instructed by a Rockwell Collins service bulletin or when the HDMS is replaced.

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the system configuration into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

(d) Perform system configuration file initialization: Set Up dPAVES Configuration, TASK 44-21-00-800-813.

NOTE: The Application Configuration Load does not take effect until the HDMS has been powered off and on or is reset.

NOTE: The loading status can also be monitored from the ECP Content Loading screen.

SUBTASK 44-21-00-470-013

(7) Application Configuration Load using ECP USB Port

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the More button to display the next Content Loading page.

1) Make sure that the second page of the Content Loading screen is shown.

(d) From the second page of the Content Loading screen, select the Application Configuration button.

(e) Insert the USB key with the application configuration into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

(f) Remove the USB key.

(g) Reset the HDMS to complete application configuration loading.

NOTE: The Application Configuration Load does not take effect until the HDMS has been powered off and on or is reset.

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SUBTASK 44-21-00-470-014

(8) Application Configuration Load using HDMS USB Port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the application configuration into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

NOTE: This step may take less than one minute.

(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

(d) Reset the HDMS to complete application configuration loading.

NOTE: The Application Configuration Load does not take effect until the HDMS has been powered off and on or is reset.

NOTE: The loading status can also be monitored from the ECP Content Loading screen.

SUBTASK 44-21-00-470-015

(9) Audio Video Entertainment Content Full Load Using ECP USB Port

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the Entertainment Full Load button.

(d) Insert the USB key with the content full load into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

NOTE: The content loading may take up to 90 minutes as the HDMS performs a defragmentation before doing a full load.

NOTE: To bypass HDMS hard drive defragmentation, check the Skip Defrag button on the Content Loading screen before performing a full load.

1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

(e) Remove the USB key.

(f) Reset the HDMS to complete the content full load.

NOTE: The Content Full Load does not take effect until the HDMS has been powered off and on or is reset after a full load.

SUBTASK 44-21-00-470-016

(10) Audio Video Entertainment Content Full Load Using HDMS USB Port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

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(b) Insert the USB key with the audio video entertainment full load into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

NOTE: The content loading may take up to 90 minutes as the HDMS performs a defragmentation after doing a full load.

NOTE: To bypass HDMS hard drive defragmentation, check the Skip Defrag button on the Content Loading screen before performing a full load.

(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

(d) Reset the HDMS to complete audio video entertainment full load.

NOTE: The loading status can also be monitored from the ECP Content Loading screen.

SUBTASK 44-21-00-470-017

(11) Audio Video Entertainment Content Partial Load Using ECP USB Port

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the Entertainment Partial Load button.

(d) Insert the USB key with the content partial load into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

NOTE: The content loading may take up to 10-30 minutes depending upon the content size.

1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

(e) Remove the USB key.

NOTE: The partial load content becomes effective upon the next HDMS power cycle and is also dependant on the metadata viability dates.

SUBTASK 44-21-00-470-018

(12) Audio Video Entertainment Content Partial Load Using HDMS USB Port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the content partial load into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

NOTE: The content loading may take up to 10-30 minutes depending upon the content size.

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(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

NOTE: The partial load content becomes effective upon the next HDMS power cycle and is also dependant on the metadata viability dates.

NOTE: The loading status can also be monitored from the ECP Content Loading screen.

SUBTASK 44-21-00-470-019

(13) Audio Video Entertainment Content Quick Load Using ECP USB Port

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the Entertainment Quick Load button.

(d) Insert the USB key with the content quick load into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

NOTE: A content quick load may include boarding music file and/or audio announcement files.

1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

(e) Remove the USB key.

NOTE: The HDMS does not reset and will continue in current operation mode. Audio Video Entertainment Content Quick Load content is available immediately after load.

SUBTASK 44-21-00-470-020

(14) Audio Video Entertainment Content Quick Load Using HDMS USB Port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the content quick load into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

NOTE: A content quick load may include boarding music file and/or audio announcement files.

1) Make sure that the HDMS front panel red LED starts to blink.

(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

NOTE: The HDMS does not reset and will continue in current operation mode. Audio Video Entertainment Content Quick Load content is available immediately after load.

NOTE: The loading status can also be monitored from the ECP Content Loading screen.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-00-470-021

(15) Boarding Music Load Using ECP USB Port

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the Boarding Music button.

(d) Insert the USB key with the boarding music content into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

(e) Remove the USB key.

NOTE: The Boarding Music Load content becomes effective upon the next HDMS power cycle or HDMS reset.

SUBTASK 44-21-00-470-022

(16) Boarding Music Load Using HDMS USB Port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the boarding music content into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

NOTE: The HDMS will automatically reset when the key is removed.

NOTE: The loading status can also be monitored from the Electrical Power Control Unit (EPCU) Content Loading screen.

SUBTASK 44-21-00-470-023

(17) Announcements Load Using EPCU USB Port

(a) Make sure that the EPCU and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the EPCU Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the Announcement button.

(d) Insert the USB key with the announcements content into the EPCU USB port.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

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(e) Remove the USB key.

NOTE: The Announcement Load content becomes effective upon the next HDMS power cycle or HDMS reset.

SUBTASK 44-21-00-470-024

(18) Announcements Content Load Using HDMS USB Port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the announcements Content into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

NOTE: The Announcement Load content becomes effective upon the next HDMS power cycle or HDMS reset.

NOTE: The loading status can also be monitored from the ECP Content Loading screen.

SUBTASK 44-21-00-470-025

(19) Auto Mode Script Load Using ECP USB Port

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the Auto Mode Script button.

(d) Insert the USB key with the auto mode script into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

(e) Remove the USB key.

NOTE: The HDMS does not reset and continues in operating mode.

NOTE: The Auto Mode Script Load does not take effect until the HDMS has been powered off and on or is reset.

SUBTASK 44-21-00-470-026

(20) Auto Mode Script Load Using HDMS USB port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the auto mode script into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

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(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

NOTE: The HDMS does not reset and continues in operating mode.

NOTE: The Auto Mode Script Load does not take effect until the HDMS has been powered off and on or is reset.

NOTE: The loading status can also be monitored from the ECP Content Loading screen.

SUBTASK 44-21-00-470-027

(21) Customer Logo Load using ECP USB Port

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the More button to display the next Content Loading page.

1) Make sure that the second page of the Content Loading screen is shown.

(d) From the second page of the Content Loading screen, select the Customer Logo Load button.

(e) Insert the USB key with the customer logo into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

(f) Remove the USB key.

(g) Reset the HDMS to complete loading of the customer logo.

NOTE: The Customer Logo Load does not take effect until the HDMS has been powered off and on or is reset.

SUBTASK 44-21-00-470-028

(22) Customer Logo Load Using HDMS USB Port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the customer logo into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

NOTE: This step may take less than one minute.

(c) Wait for the LED front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

NOTE: The loading status can also be monitored from the ECP Content Loading screen.

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(d) Reset the HDMS to complete loading of the customer logo.

NOTE: The Customer Logo Load does not take effect until the HDMS has been powered off and on or is reset.

SUBTASK 44-21-00-470-029

(23) Test Content Load Using ECP USB Port

(a) Make sure that the ECP and HDMS are powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) From the ECP Auto or Manual Mode Main Menu, select the Load Status button.

1) Make sure that the Content Loading screen is shown.

(c) From the Content Loading screen, select the More button to display the next Content Loading page.

1) Make sure that the second page of the Content Loading screen is shown.

(d) From the second page of the Content Loading screen, select the Test Content button.

(e) Insert the USB key with the test content into the ECP USB port.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the Load Progress field displays 100% and the Load Result field displays Success.

(f) Remove the USB key.

NOTE: The test content becomes effective upon the next HDMS power cycle or HDMS reset.

SUBTASK 44-21-00-470-030

(24) Test Content Load Using HDMS USB port

(a) Make sure that the HDMS is powered up.

NOTE: Wait five minutes for the HDMS to initialize.

(b) Insert the USB key with the test content into the front USB port of the HDMS.

NOTE: USB key detection may take up to 45 seconds.

1) Make sure that the HDMS front panel red LED starts to blink.

NOTE: This step may take less than one minute.

(c) Wait for the HDMS front panel red LED to become steady or turn off, and remove the USB key.

NOTE: If the red LED turns off, the private key was loaded successfully. If the red LED is steadily on, the loading completed with errors.

NOTE: The test content becomes effective upon the next HDMS power cycle or HDMS reset.

NOTE: The loading status can also be monitored from the ECP Content Loading screen.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-074

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

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SUBTASK 44-21-00-860-075

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

TASK 44-21-00-800-820

13. HDMS Maintenance

A. General

(1) The High Definition Media Server (HDMS) Maintenance screens are used by maintenance personnel to configure and control the HDMS application. The procedure provides step-by-step instruction on how to view the part numbers of the current HDMS configuration from within the HDMS Maintenance screen. This procedure also provides step-by-step instruction on how to perform various maintenance tasks from within the HDMS Maintenance screen.

(2) The currently loaded Audio and Video content stored on the HDMS can be viewed from the Audio/Video Contents menu. The following types of Audio and Video content are viewable:

- All Content
- Current Content
- Expired Content
- Future Content

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the maintenance procedure

SUBTASK 44-21-00-860-076

(1) Make sure that the In-Flight Entertainment (IFE) system is operational

(a) Do the task to select the Maintenance mode: Select the Maintenance Mode, TASK 44-21-00-800-811.

E. Procedure

SUBTASK 44-21-00-890-014

(1) View Part Numbers of the HDMS Software Configuration(s)

(a) From the Maintenance Mode Main Menu, select the Switch to HDMS Test Graphical User Interface (GUI) button.

1) Make sure that the Switch to HDMS Test GUI Warning Message popup screen is shown.

(b) From the Switch to HDMS Test GUI Warning Message popup screen, select the OK button.

1) Make sure that the HDMS Maintenance screen is shown.

(c) From the HDMS Maintenance screen, select the Configuration button on the left panel of the screen.

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1) Make sure that the HDMS Part numbers Display Screen is shown.

SUBTASK 44-21-00-890-034

(2) View Audio/Video Content Metadata

(a) From the HDMS Maintenance Home page, select the Audio/Video Contents button.

1) Make sure that the Audio/Video contents screen is shown.

(b) From the Audio Video Contents screen, select the All button to view all Audio content.

(c) Select the Audio link to view all available Audio categories in a tree view format.

(d) Expand the tree view by selecting the Audio category link, then the Audio-Ordinal Audio Title link.

1) Make sure that the Audio Ordinal-Audio Title metadata info for all the selected title is displayed in grid view format with columns for Content Field and Content Value.

(e) From the Audio Video Contents screen, select the Current button to view all current Audio content.

(f) Select the Audio link to view all available Audio categories in a tree view format.

(g) Expand the tree view by selecting the Audio category link, then the Audio-Ordinal Audio Title link.

1) Make sure that the Audio Ordinal-Audio Title metadata info for all the selected title is displayed in grid view format with columns for Content Field and Content Value.

(h) From the Audio Video Contents screen, select the Expired button to view all expired Audio content.

(i) Select the Audio link to view all available Audio categories in a tree view format.

(j) Expand the tree view by selecting the Audio category link, then the Audio-Ordinal Audio Title link.

1) Make sure that the Audio Ordinal-Audio Title metadata info for all the selected title is displayed in grid view format with columns for Content Field and Content Value.

(k) From the Audio Video Contents screen, select the Future button to view all future Audio content.

(l) Select the Audio link to view all available Audio categories in a tree view format.

(m) Expand the tree view by selecting the Audio category link, then the Audio-Ordinal Audio Title link.

1) Make sure that the Audio Ordinal-Audio Title metadata info for all the selected title is displayed in grid view format with columns for Content Field and Content Value.

(n) From the Audio Video Contents screen, select the All button to view all video content.

(o) Select the video link to view all available Video categories in a tree view format.

(p) Expand the tree view by selecting the Video category link, then the Video-Ordinal Video Title link.

1) Make sure that the Video Ordinal-Video Title metadata info for all the selected title is displayed in grid view format with columns for Content Field and Content Value.

(q) From the Audio Video Contents screen, select the Current button to view all current video content.

(r) Select the video link to view all available Video categories in a tree view format.

(s) Expand the tree view by selecting the Video category link, then the Video-Ordinal Video Title link.

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1) Make sure that the Video Ordinal-Video Title metadata info for all the selected title is displayed in grid view format with columns for Content Field and Content Value.

(t) From the Audio Video Contents screen, select the Expired button to view all expired video content.

(u) Select the video link to view all available Video categories in a tree view format.

(v) Expand the tree view by selecting the Video category link, then the Video-Ordinal Video Title link.

1) Make sure that the Video Ordinal-Video Title metadata info for all the selected title is displayed in grid view format with columns for Content Field and Content Value.

(w) From the Audio Video Contents screen, select the Future button to view all future video content.

(x) Select the video link to view all available Video categories in a tree view format.

(y) Expand the tree view by selecting the Video category link, then the Video-Ordinal Video Title link.

1) Make sure that the Video Ordinal-Video Title metadata info for all the selected title is displayed in grid view format with columns for Content Field and Content Value.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-077

(1) If IFE system is no longer needed, do this step at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-00-860-078

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER VIDEO SYSTEM - ADJUSTMENT/TEST

1. General

A. This procedure has these tasks for the Passenger Entertainment System (PES) Video:

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(1) A Quick Test.

LOM 416, 422, 425, 427, 428, 433, 434, 437-447, 453-464, 466-999

(2) An operational test.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(3) A system test.

TASK 44-21-00-700-802

2. Passenger Video System - Quick Test

A. General

(1) The Quick Test is a built-in-test equipment (BITE) test that causes continuous faults to be processed for display. The Quick Test is a non-intrusive test and does not affect other entertainment system functions.

(2) The QUICK TEST screen shows the condition of each LRU and provides a LOPA to show location of fault(s).

(3) The QUICK TEST DETAILS screen provides additional status about the fault(s).

B. References

Reference	Title
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)

C. Quick Test

SUBTASK 44-21-00-740-002

(1) To do the Quick Test, do the steps that follow:

(a) Make sure that the entertainment system is initialized and logged into the CABIN MAINTENANCE screen Video Entertainment System - Activation, TASK 44-21-00-440-802.

(b) From the CABIN MAINTENANCE screen, select the System Tests button.

NOTE: From the SYSTEM TEST screen, the Toggle Fault Display button may be used to show either all faults, or show only the active faults and hide the inactive faults.

(c) From the SYSTEM TESTS screen, select the Start Quick Test button.

(d) Review the details from the Quick Test.

(e) If further details are required, select the Details button.

1) From the QUICK TEST DETAILS screen, review the details.

(f) Select the HOME icon to return to the CABIN MAINTENANCE Main Menu.

LOM 416, 422, 425, 427, 428, 433, 434, 437-447, 453-464, 466-999

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-00-700-803

3. Passenger Video System - Operational Test

A. References

Reference	Title
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-040-802-001	Passenger Video System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-440-803-001	Passenger Video System - Activation (P/B 201)
44-21-00-800-842	Setting Flight and Entertainment Modes (P/B 201)

B. Procedure

SUBTASK 44-21-00-710-007

(1) Do the Power-on task if the IFES is not initialized: Video Entertainment System - Activation, TASK 44-21-00-440-802 or Passenger Video System - Activation, TASK 44-21-00-440-803-001.

NOTE: To access the IFE controls, “Log-on” and “Open Flight” must be completed.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

SUBTASK 44-21-00-860-261

(2) Set the IFES to Open Flight mode: Setting Flight and Entertainment Modes, TASK 44-21-00-800-842.

LOM 416, 422, 425, 427, 428, 433, 434, 437-447, 453-464, 466-999

SUBTASK 44-21-00-710-030

(3) To do the Operational Test, do the steps that follow:

(a) Check the aircraft deferral record for errors or deficiencies and correct as configured.

(b) To test all Handsets, do the steps that follow:

1) Check for proper operation of all Handset cord reels by extending and re-stowing the cord reels.

2) Check that power is available to all Handsets.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

3) Do the Interactive Test: Passenger Video System - System Test, TASK 44-21-00-700-804.

a) Make sure that the Interactive functions are satisfactory.

LOM 416, 422, 425, 427, 428, 433, 434, 437-447, 453-464, 466-999

4) If applicable, push the attendant call light key on and off.

a) Make sure that the corresponding action occurs.

5) If applicable, push the reading light key on and off.

a) Make sure that the corresponding action occurs.

(c) To test all Audio Jacks, do the steps that follow:

1) Check for proper mounting of Audio Jacks.

2) Use a headset and check for availability of audio.

LOM 443, 444, 458-461, 466-999

(d) To test all USB ports, do the steps that follow:

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LOM 443, 444, 458-461, 466-999 (Continued)

1) Check for proper mounting of USB ports.
2) Do the USB at Seat Test: Passenger Video System - System Test, TASK 44-21-00-700-804.

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

(e) To test all overhead Monitors, do the step that follows:

1) Do the Overhead Displays Power Control Test for each monitor: Passenger Video System - System Test, TASK 44-21-00-700-804.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

(f) To test all in-seat monitors, do the steps that follow:

1) View all video channels, and check for picture quality and screen brightness.
2) Listen to all audio channels and check for good sound quality.
3) Check for proper operation of all stowable monitors by re-stowing the units.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(g) To test the Video and Audio Passenger Address (PA) System, do the steps that follow:

1) Do the Video PA Test: Passenger Video System - System Test, TASK 44-21-00-700-804.
   a) Make sure that the Video PA is shown on all monitors.
2) Do the Audio PA Test: Passenger Video System - System Test, TASK 44-21-00-700-804.
   a) Make sure that the sound quality is satisfactory.
3) Do the PA Override Test: Passenger Video System - System Test, TASK 44-21-00-700-804.
   a) Make sure that the PA announcements override entertainment functions.
4) Do the PA Discrete/Keyline Test: Passenger Video System - System Test, TASK 44-21-00-700-804.

LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999

(h) To test the In-seat Power Supply System (ISPSS), do the step that follows:

1) Make sure that the applicable Advanced Master Control Units are on.
2) Make sure that the Power Outlet Unit LED is illuminated green.

LOM 416, 422, 425, 427, 428, 433, 434, 437-447, 453-464, 466-999

C. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-860-047

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801 or Passenger Video System - Deactivation, TASK 44-21-00-040-802-001.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

TASK 44-21-00-700-804

4. Passenger Video System - System Test

A. General

(1) The PES system test contains these procedures:

(a) BITE test

(b) Operational Test

(c) In-Seat Audio, Video/Audio, and Interactive Test

(d) Boarding Music Test

(e) Video/Audio PA Test

LOM 443, 444, 458-460, 466-999

(f) Universal Serial Bus (USB) Device Test

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

(g) Overhead Displays Power Control Test

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(h) Decompression Test

(i) Discrete Interface Test

B. References

Reference	Title
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-800-842	Setting Flight and Entertainment Modes (P/B 201)

C. BITE Test

SUBTASK 44-21-00-740-003

(1) To do the BITE test, do the steps that follow:

NOTE: When the BITE Test is performed, the IFE LRUs stop functioning in current mode, then they do a self-test analysis, report any faults, and then pick up from the point where they stopped functioning. If video has been stopped, it will resume at the beginning of the video, not at the point of stoppage.

(a) Make sure that the entertainment system is initialized (Video Entertainment System - Activation, TASK 44-21-00-440-802).

(b) From the CABIN MAINTENANCE screen, select the System Tests button.

NOTE: From the SYSTEM TESTS screen, the Toggle Fault Display button may be used to show either all faults or show only the active faults and hide the inactive faults.

1) Make sure that the SYSTEM TESTS screen shows.

(c) From the SYSTEM TESTS screen, select the Start All Test button.

(d) Review the test results from the ALL TEST screen.

(e) If further details are required, select the Details button.

(f) Review the test results from the ALL TEST DETAILS screen.

(g) From the ALL TEST DETAILS screen, select the HOME icon to return to the CABIN MAINTENANCE Main Menu.

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D. Operational Test

SUBTASK 44-21-00-710-008

(1) Do this task: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

E. Prepare for the System Test

NOTE: To access the IFE controls, “Log-on” and “Open Flight” must be completed.

SUBTASK 44-21-00-860-262

(1) Do the Power-on task if the IFES is not initialized:Video Entertainment System - Activation, TASK 44-21-00-440-802.

SUBTASK 44-21-00-860-263

(2) Set the IFES to Entertainment On mode: Setting Flight and Entertainment Modes, TASK 44-21-00-800-842.

F. In-Seat Audio, Video/Audio, and Interactive Test

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463

SUBTASK 44-21-00-730-001

(1) To do the In-seat Audio Test, do the steps that follow:
- (a) Go to any class seat and connect a Digital Passenger Control Unit (DPCU) to the seat.
- (b) Push the DPCU Channel Up/Down buttons to select an audio channel.
  - 1) Make sure that the sound changes accordingly.
- (c) Push the DPCU Volume Up/Down buttons.
  - 1) Make sure that the sound changes accordingly.
- (d) Repeat this test for all the other applicable seat classes.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

SUBTASK 44-21-00-710-031

(2) To do the In-seat Video/Audio Test, do the steps that follow:
- (a) Go to any class seat and connect a headset to the seat.
- (b) Push the Handset Mode button to select Video.
  - 1) Make sure that the video is shown on the Seat Display Unit (SDU).
- (c) Use the Handset channel up/down buttons to select a video channel.
  - 1) Make sure that the quality of the video program is good.
- (d) Listen to the audio portion of the video program.
  - 1) Make sure that you hear the audio that agrees to the video source and there is volume control on the handset.
- (e) Push the Volume Up/Down buttons.
  - 1) Make sure that the sound corresponds accordingly.
- (f) Repeat this test for all the other applicable seat classes.

SUBTASK 44-21-00-710-032

(3) To do the Interactive Test, do the steps that follow:
- (a) Go to any class seat and connect a headset to the seat.
- (b) Push the HOME or Enter button on the Handset.

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1) Make sure that the SDU shows the LANGUAGE SELECT screen.

(c) From the LANGUAGE SELECT screen, select a language.

1) Make sure that the HOME MENU screen shows.

(d) Use the Handset and SDU to exercise the interactive functions.

1) Make sure that the system operates as expected.

2) Make sure that the quality of the video is good.

(e) Use a headset and listen to the audio portion of the video program.

1) Make sure that the audio is clear.

(f) Push to select Games.

1) Make sure that the games load and function as expected.

(g) Repeat this test for all the other applicable seat classes.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

G. Boarding Music Test

SUBTASK 44-21-00-730-002

(1) To do the Boarding Music Test, do the steps that follow:

(a) From the Cabin Crew MAIN MENU screen, select the Boarding Music button.

1) Make sure that the BOARDING MUSIC screen is shown.

(b) From the BOARDING MUSIC screen, select an available Boarding Music Title.

(c) Select the Play button.

1) Make sure that you can hear the boarding music clearly through out the cabin speakers.

(d) Select the Volume Up/Down buttons to increase and decrease the audio volume.

1) Make sure that the volume level of the audio changes accordingly.

(e) Select the Stop button.

(f) Select the Main Menu icon to go to the Cabin Crew MAIN MENU screen.

H. Video/Audio PA Test

SUBTASK 44-21-00-710-033

(1) To do the Video PA (VPA) Test, do the steps that follow:

(a) From the Cabin Crew MAIN MENU screen, select the Video PA button.

1) Make sure that the VIDEO PA or CABIN VIDEO screen is shown.

(b) From the VIDEO PA or CABIN VIDEO screen, select the Select Title button.

1) Make sure that the VIDEO PA TITLE selection screen is shown.

(c) From the VIDEO PA TITLE selection screen, select a title from the listing, then select the OK button.

1) Make sure that the selected video file is indicated on the screen.

(d) To preview the video in the preview window, select the Play button.

NOTE: The preview only appears on the Crew Terminal.

1) Make sure that the VPA is shown on the preview screen.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999 (Continued)

(e) Select the desired cabin zones, then select the Start VPA button.

NOTE: If the language selection pop-up is shown, select a language and then select the Confirm button.

1) Make sure that the VPA is shown on cabin monitors and is heard clearly through the cabin speakers.

2) If the Handset has a display, make sure that PA is shown on the display.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999

3) Make sure that the interactive buttons on the handsets do not respond to button presses, except for volume up/down.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

4) Make sure that the VPA is shown on SDU.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(f) Select the Volume Up/Down buttons to increase and decrease the audio volume.

1) Make sure that the volume level of the audio changes accordingly.

(g) Select the Stop button to stop the VPA.

1) Make sure that the VPA stops playing.

(h) Select the MENU button to go back to the MAIN MENU screen.

SUBTASK 44-21-00-710-034

(2) To do the Audio PA Test, do the steps that follow:

(a) From the Cabin Crew MAIN MENU screen, select the Audio Announcements button.

1) Make sure that the AUDIO ANNOUNCEMENT or SELECT ANNOUNCEMENTS screen is shown.

(b) From the SELECT ANNOUNCEMENTS or SELECT ANNOUNCEMENTS screen select a audio announcement.

(c) Select the Add button.

(d) Select the Play button.

1) Make sure the audio announcement is heard clearly through the cabin speakers.

(e) From any class seat, do the steps that follow:

1) Connect a headset to the seat.

2) Listen to the audio announcement and make sure that it is clear.

3) If the Handset has a display, make sure that PA is shown on the display.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999

4) Make sure that the interactive buttons on the handsets do not respond to button presses, except for volume up/down.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

(f) Select the Stop PA or Cancel Current button.

1) Make sure that the audio announcement stops.

(g) Select the MENU button to go back to the MAIN MENU screen.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999 (Continued)

SUBTASK 44-21-00-730-003

(3) To do the PA Override Test, do the steps that follow:

(a) Start a general entertainment broadcast:

1) From the MAIN MENU screen at the Crew Panel (CP), select the Video PA button.

2) From the VIDEO PA screen, select a Video PA title.

3) Select the Confirm button.

4) From the VIDEO PA screen, select the Start VPA button.

a) Make sure that the video shows on the overhead monitors and in-seat displays.

b) Make sure that the audio is heard from the PA speakers and from the headsets on any seat.

NOTE: You may need to increase the volume to hear the audio from the headsets using the DPCU mounted in the seat.

c) If the Handset has a display, make sure that PA is shown on the display.

(b) At the crew station Handset, initiate a PA announcement.

1) If the Handset has a display, make sure that PA is shown on the display.

2) Make sure that the Handset audio pauses.

3) Make sure that you do not hear the audio PA in all seat headsets and on overhead speakers.

(c) At the crew station Handset, deactivate the PA announcement.

1) If the Handset has a display, make sure that the previous channel shows on the Handset display.

2) Make sure that all audio/video programs start after the announcement is stopped.

LOM 443, 444, 458-460, 466-999

I. Universal Serial Bus (USB) Device Test

SUBTASK 44-21-00-710-035

(1) To do the USB Device Test, do the steps that follow:

LOM 458-460

NOTE: The USB ports at the passenger seats are used for charging only, they do not provide interactive capability with the IFE components.

LOM 443, 444, 458-460, 466-999

(a) Insert a USB device into an available USB port.

1) Make sure that the message is shown on the Smart Monitor that indicates the USB device is connected.

(b) Remove the USB device from the USB port.

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

J. Overhead Displays Power Control Test

SUBTASK 44-21-00-710-036

(1) To do the Overhead Displays Power Control Test, do the steps that follow:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) From the Cabin Crew MAIN MENU Screen, select the Monitor Control button.

1) Make sure that the MONITOR CONTROL screen is shown.

NOTE: A Layout of Passenger Area (LOPA) will be displayed on the screen illustrating the overhead monitor locations.

(b) From the MONITOR CONTROL screen, use the touch screen to select an overhead monitor from the LOPA.

1) Make sure that the selected monitor is highlighted.

(c) Select the DISABLE button to disable the monitor.

1) Make sure that the selected monitor shows OFF (disabled).

(d) Select the ENABLE button to enable the monitor.

1) Make sure that the selected monitor shows ON (enabled).

(e) Do the previous steps above again for each of the remaining overhead monitors.

(f) Select the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464, 466-999

K. Decompression Test

SUBTASK 44-21-00-730-004

(1) Do these steps for the decompression test:

(a) Start a general entertainment broadcast:

1) From the MAIN MENU screen at the Crew Panel (CP), select the Video PA button.

2) From the VIDEO PA screen, select a Video PA title.

3) Select the Confirm button.

4) From the VIDEO PA screen, select the Start VPA button.

5) Make sure that the video shows on the overhead monitors and in-seat displays.

6) Make sure that the audio is heard from the PA speakers and from the headsets on any seat.

NOTE: You may need to increase the volume to hear the audio from the headsets using the DPCU mounted in the seat.

7) If the Handset has a display, make sure that PA is shown on the display.

CAUTION

MAKE SURE THAT YOU DO THE STEPS BELOW CORRECTLY. THIS CAN PREVENT DAMAGE TO THE OXYGEN SYSTEM.

(b) Do the steps below correctly:

CAUTION

MAKE SURE THE PSU RESTRAINTS ARE INSTALLED. THE RESTRAINTS MUST BE INSTALLED TO STOP THE PASSENGER OXYGEN MASKS FROM DROPPING. DAMAGE TO EQUIPMENT CAN OCCUR.

(c) Install the restraints on each of the PSU oxygen doors in the main cabin and crew rests.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CAUTION OPEN THE “PASSENGER OXYGEN L, CTR, AND R” CIRCUIT BREAKERS BEFORE YOU SET THE “DECOMPRESSION OUT GROUND”. THE PASSENGER OXYGEN MASKS WILL FALL IF YOU SET THE SWITCH TO GROUND BEFORE YOU OPEN THE CIRCUIT. DAMAGE TO EQUIPMENT CAN OCCUR.

(d) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

(e) Make sure that these circuit breakers are closed:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

(f) Set the PASS OXYGEN switch on the P5 overhead panel to ON.

1) Make sure that you hear the decompression announcement on the passenger address speakers.
2) Make sure the screen of all monitors go blank.
3) Make sure the PC power outlet 110V AC green indicator lights on all seats are off.

(g) Make an announcement from an attendant's handset while you hear the decompression announcement.

1) Make sure you can hear the voice announcement on the passenger address speakers.
2) Make sure you cannot hear the decompression announcement while the voice announcement is being made.
3) Make sure you hear the decompression announcement resume when you end the voice announcement.

(h) Set the PASS OXYGEN switch on the P5 overhead panel to NORMAL.

(i) Open and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND
F	8	C00785	OXYGEN MAN CONT

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

(k) Remove the restraints from the PSU oxygen doors in the main cabin and crew rests.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

L. Discrete Interface Test

LOM 422, 425, 427, 428, 433, 434, 440, 442-447, 453-456, 458-460, 462-464

SUBTASK 44-21-00-730-005

(1) Do these steps to check the Air/Gnd Keyline:

(a) Push the ON/OFF button located on the PSEU BITE Control Panel.

1) Make sure the PSEU Display is ON and the display will read “EXISTING FAULTS?”.

2) Make sure that the WEIGHT WHEELS discrete status on the Crew Panel indicates a GROUND.

(b) Select the NO button on the PSEU BITE Control Panel.

1) Make sure the display will read “FAULT HISTORY?”.

(c) Select the NO button

1) Make sure the display will read “GROUND TESTS?”.

(d) Select the NO button.

1) Make sure the display will read “AIR/GND OVRD?”.

(e) Select the YES button.

1) Make sure the display will read “SET SYS 1 IN THE AIR?”.

(f) Select the YES button.

1) Make sure the display will read “ARE YOU SURE?”.

(g) Select the YES button.

NOTE: The display will read “Sys 1 is in Air” for 2 seconds followed by “Set Sys 1 on Gnd?”. The Air/Ground on the PSEU, labeled “Sys 1 in the Air”, will be illuminated and PSEU fault light on the flight deck will also be illuminated.

1) Make sure that the WEIGHT ON WHEELS discrete status on the Crew Panel indicates an OPEN.

(h) Select the YES button on the PSEU BITE control panel.

1) Make sure the display will read “ARE YOU SURE?”.

(i) Select the YES button.

1) Make sure that the WEIGHT ON WHEELS discrete status on the Crew Panel indicates a GROUND.

SUBTASK 44-21-00-730-006

(2) Do these steps to check the Parking Brake Keyline:

(a) Do this step at the Crew Panel.

1) Make sure that the PARKING BRAKE discrete status on the Crew Panel indicates a GROUND.

(b) Release the Parking Brake.

1) Make sure the PARKING BRAKE discrete status on the Crew Panel indicates an OPEN.

(c) Set the Parking Brake.

1) Make sure that the PARKING BRAKE discrete status on the Crew Panel indicates a GROUND.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425, 427, 428, 433, 434, 440, 442-447, 453-456, 458-460, 462-464 (Continued)

SUBTASK 44-21-00-730-007

(3) Do these steps to check the Door Lock Keyline:

(a) Close and lock all cabin doors.

1) Make sure that the ALL_DOORS_CLOSED discrete status on the Crew Panel indicates a GROUND.

(b) Open the LEFT FORWARD entry door.

1) Make sure the ALL_DOORS_CLOSED discrete status on the Crew Panel indicates an OPEN.

NOTE: Door discrete testing is complete, airplane doors may be placed in pre-test configuration.

LOM 422, 425

SUBTASK 44-21-00-730-008

(4) Do these steps to check the START/TAKEOFF ROLL Keyline:

(a) Close and lock all doors.

1) Make sure that the airplane is in ground mode (if the airplane is on jacks, simulate GROUND mode by placing actuator slugs over both air/ground proximity switches on each landing gear).

2) Make sure that the ENGINE OFF discrete status on the Crew Panel indicates an OPEN.

(b) Set both thrust levers (located on the Control Stand, P8) to fully ADVANCED position.

1) Make sure that the ENGINE OFF discrete status on the Crew Panel indicates a GROUND.

(c) Push both thrust levers (located on the Control Stand, P8) all the way down.

1) Make sure that the PC power outlet 110V AC green indicators on all the seats (2 outlets per seat) are extinguished.

(d) Set the PC OUTLETS switch on the Attendant Panel (P13) located on the Forward Lavatory wall to ON.

1) Make sure that the switch illuminates.

2) Make sure that the PC power outlet 110V AC green indicators on all the seats (2 outlets per seat) are illuminated.

(e) Set all the reading lights to ON in the B/C seats.

1) Make sure that the reading lights are operational.

(f) Set all the reading lights to OFF.

LOM 427, 428, 433, 434, 440, 442-447, 453-456, 458-460, 462-464

SUBTASK 44-21-00-730-009

(5) Do these steps to check the ENGINE ON/OFF Keyline:

(a) 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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427, 428, 433, 434, 440, 442-447, 453-456, 458-460, 462-464 (Continued)

(Continued)

CAPT Electrical System Panel, P18-2

Row	Col	Number	Name
A	3	C00153	ENGINE 1 IGNITION LEFT

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

(b) Make sure that the following conditions are set:

- ENG 1 and ENG 2 START switches on P5 panel are OFF.
- ENG 1 and ENG 2 START levers are in IDLE position.
- ENG 1 and ENG 2 FIRE handles are not pulled.
- Airplane is on Ground mode.
- APU is off.

(c) Close these circuit breakers:

CAPT Electrical System Panel, P18-2

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

F/O Electrical System Panel, P6-2

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

1) Make sure that the ENGINE OFF discrete on the crew panel is OPEN.

NOTE: Wait for 5 minutes for the system to update.

(d) PULL ENG 1 and ENG 2 START LEVERS to CUTOFF position.

(e) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-2

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

F/O Electrical System Panel, P6-2

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

1) Make sure that the ENGINE OFF discrete on the crew panel is GROUNDED.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427, 428, 433, 434, 440, 442-447, 453-456, 458-460, 462-464 (Continued)

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

CAPT Electrical System Panel, P18-2

Row	Col	Number	Name
A	1	C00458	ENGINE 1 IGNITION RIGHT
A	3	C00153	ENGINE 1 IGNITION LEFT
B	1	C01316	ENGINE 1 START LEVER CHAN A
B	3	C01312	ENGINE 1 RUN/PWR

F/O Electrical System Panel, P6-2

Row	Col	Number	Name
B	5	C01313	ENGINE 2 RUN/PWR
B	6	C01318	ENGINE 2 START LEVER CHAN A
D	4	C00459	ENGINE 2 IGNITION RIGHT
D	6	C00151	ENGINE 2 IGNITION LEFT

LOM 427, 428, 445, 458-460

SUBTASK 44-21-00-730-010

(6) Do these steps to check the ACARS interface:

(a) Select the MAINTENANCE button on the Crew Panel Main Menu screen.

(b) Select the keyboard icon on the top right hand corner.

(c) Enter the correct password and select ENTER.

(d) Select SYSTEM STATUS on the Maintenance screen.

(e) Select Discrete/Comm Status on the System Status screen.

NOTE: It may take 15 to 35 seconds before the change of state is reported at the Crew Panel. The screen will need to be refreshed to update the status reported before verifying the discrete signal change of state. To refresh, touch the REFRESH button on the screen, alternately you can touch the BACK ARROW at the top of the screen and then go back into the DISCRETE/STATUS screen.

1) Make sure that the status of discrete signals are displayed on the screen.

2) Make sure that the ACARS LINK discrete status indicates LINK UP.

(f) Open and close this circuit breaker:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
E	8	C01483	CMU-1 AC

1) Make sure that the ACARS LINK discrete status indicates LINK DOWN on the System Status screen.

(g) Select the REFRESH button to refresh the System Status screen.

1) Make sure that the ACARS status indicates a GREEN CHECK mark.

NOTE: Green Check mark indicates ACARS system is linked to IFE and status is active.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427, 428, 445, 458-460 (Continued)

(h) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
E	8	C01483	CMU-1 AC

NOTE: WAIT for approximately 15 seconds.

1) Make sure that the ACARS status indicates RED X mark.

NOTE: A RED X indicates ACARS system is not linked to IFE and status is inactive.

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
E	8	C01483	CMU-1 AC

END OF TASK

LOM 437-439, 441

TASK 44-21-00-700-805

5. Digital Passenger Audio/Video Entertainment System - Operational Test

A. General

(1) This is a task for the Digital Passenger Audio/Video Entertainment System operational test.

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the Operational Test

SUBTASK 44-21-00-860-079

(1) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC
LOM 437, 438			
C	8	C01456	ENTERTAINMENT AUDIO
LOM 437-439, 441			
D	5	C01452	VIDEO 1
D	6	C01453	VIDEO 2
D	7	C01454	VIDEO 3

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
D	8	C01455	VIDEO 4

SUBTASK 44-21-00-860-080

(2) Turn on the dPAVES System

(a) Make sure that the IFE/PASS SEAT switch on the P5 overhead panel in the cockpit is set to ON.

(b) Select Passenger Services from the attendant control panel, and press the Entertainment ON button to power on the IFE system.

NOTE: Wait five minutes for the HDMS to initialize.

1) Make sure that the default Power On screen is shown on Entertainment Control Panel.

E. Digital Passenger Audio/Video Entertainment System - Operational Test

SUBTASK 44-21-00-860-081

(1) ECP System Configuration Load

(a) Select the Maintenance tab on the ECP.

1) Make sure that the Mode Exit Confirmation popup screen is shown.

(b) Select the Yes button on the Mode Exit Confirmation popup.

1) Make sure that the Maintenance Mode Login screen is shown.

(c) Enter the correct password on the Maintenance Mode Login screen and select the Login button.

1) Make sure that the Maintenance Mode Main Menu screen is shown.

(d) From the Maintenance Mode Main Menu screen, select the Content Loading button.

1) Make sure that the Content Loading Screen is shown.

(e) From the Content Loading Screen, select the System Configuration button.

1) Make sure that the System Configuration Content load screen is shown.

(f) Insert the ECP Configuration Software USB in the ECP USB port.

1) Make sure that the Date/Time: line updates to the current time.

2) Make sure that a progress bar shows the load progress.

3) Make sure that the Load Result: line shows "Success".

NOTE: This indicates that the System Configuration has been successfully copied to the HDMS (but not yet activated). In the following steps the System Configuration will be activated.

(g) Select the Back button.

1) Make sure that the Maintenance Mode Main Menu screen is shown.

(h) From the Maintenance Mode Main Menu screen, select the Configuration Setup Button.

1) Make sure that the Configuration Setup Page is shown with the applicable file available to select.

(i) Select the applicable configuration file and then select the Initialize the Config File Button.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 (Continued)

1) Make sure that the Config File Initialization popup is shown.

NOTE: Config File Initialization will cycle through TU, SEB, and AMUX initialization

NOTE: This could take a number of minutes, depending on the number of LRUs being configured.

2) Make sure that after this cycle an Initialization Succeeded popup is shown.

(j) From the Initialization Succeeded popup, select the OK button.

1) Make sure that the HDMS reboots.

2) Make sure that the Manual Mode Main Menu screen is shown after the HDMS completes its reboot process.

SUBTASK 44-21-00-710-011

(2) System Test

(a) Select the Manual Mode tab on the ECP.

1) Make sure that the Mode Exit Confirmation popup screen is shown.

(b) Select the Yes button on the Mode Exit Confirmation popup.

1) Make sure that the Manual Mode Main screen is shown.

(c) From the Manual Mode Main screen, select the ENTERTAINMENT button.

1) Make sure that the Entertainment screen is shown.

(d) From the Entertainment screen, select the Movies button.

1) Make sure that the Movie Selection screen is shown.

(e) Select one of the test videos listed in the Available Movies list and select Play in Loop button.

(f) Select the OK button.

(g) Select the Monitors Deploy button.

1) Make sure that the monitors deploy and the video is shown on all monitors as well as the preview area on the ECP.

LOM 437, 438

2) Make sure that video audio is playing at the seats on the applicable DPCU channels.

3) Make sure that the Entertainment audio is playing at the seats on applicable DPCU channels.

LOM 437-439, 441

(h) While the video is playing, select the Cabin PA OFF button.

1) Make sure that after the PA ON button is selected it changes to PA ON and highlighted.

2) Make sure that the video is heard over the overhead PA speakers.

LOM 437, 438

3) Make sure that the audio is heard at the seat DPCUs.

LOM 437-439, 441

(i) While the video is playing, select the Cabin PA ON button.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 (Continued)

1) Make sure that the button changes to PA OFF and is no longer highlighted.
2) Make sure that the video audio is no longer heard over the overhead PA speakers.

LOM 437, 438

3) Make sure that the seat DPCUs audio returns to the last channel selected.

LOM 437-439, 441

(j) While the video is playing, make a PA announcement from the flight attendants handset.
1) Make sure that the video pauses and that the PA audio is heard at the seats.

(k) While the video is playing, make a PA announcement from the cockpit.
1) Make sure that the video pauses and that the PA audio is heard at the seats.

(l) Stop the PA announcement.
1) Make sure that the video resumes playing and normal audio returns to the seats.

(m) While the video is playing, select the attendant headset audio on button.
1) Make sure that the audio from the video that is currently shown on the video preview screen is heard from the attendants' headset attached to the attendants' audio jack.

(n) Make sure that all tabs are deployed to stop the oxygen masks from dropping.

(o) While the video is playing, activate the decompression keyline.
1) Open these circuit breakers and install safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

2) Make sure that the video stops playing on the overhead monitors and the monitors retract and stow.
3) Make sure that the ECP backlight turns off.
4) Make sure that the decompression message is heard on the overhead speakers and at the seats.
5) Open and close this circuit breaker:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	7	C00156	OXYGEN IND

a) Make sure the passenger OXYGEN ON light on the P5-14 panel is not illuminated.

(p) Clear the decompression condition.
1) Remove the safety tags and close these circuit breakers:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
F	9	C00784	OXYGEN PASS RIGHT
F	10	C00783	OXYGEN PASS LEFT

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 (Continued)

(q) Set the IFE/PASS SEAT switch to OFF in the cockpit.

(r) Wait 15 seconds, set the IFE/PASS SEAT back ON.

1) Make sure that the ECP powers up and the Main Manual Mode Menu is displayed.

SUBTASK 44-21-00-710-012

(3) Pre-Recorded Announcements

(a) Select the Manual Mode tab on the ECP.

1) Make sure that the Mode Exit Confirmation popup screen is shown.

(b) Select the Yes button on the Mode Exit Confirmation popup.

1) Make sure that the Manual Mode Main screen is shown.

(c) From the Manual Mode Main screen, select the Audio Announcement button.

1) Make sure that the Audio Announcements menu screen is shown.

(d) From the Audio Announcements menu screen, select the Add File button.

(e) Select the Select Title button.

(f) Select the Category button.

(g) Select one of the configured categories and select OK.

(h) Select the Select All button and then select OK.

(i) Select the Play button.

1) Make sure that the announcement is heard over the overhead PA speakers.

LOM 437, 438

2) Make sure that the PA audio is heard at the seat DPCUs.

LOM 437-439, 441

(j) From the Audio Announcement screen, select the Stop button.

1) Make sure that the Audio Announcement audio is no longer heard from the overhead speakers.

LOM 437, 438

2) Make sure that the seat DPCU audio returns to the last channel selected.

LOM 437-439, 441

SUBTASK 44-21-00-710-013

(4) BGM

(a) Select the Back button until the Manual Mode Main Menu is displayed.

(b) From the Manual Mode Main Menu screen, select the Boarding Music button.

1) Make sure that the Boarding Music Menu is displayed.

(c) Select the available BGM title and select the Play button.

1) Make sure that the BGM starts playing on the overhead speakers.

(d) Select the Stop button on the BGM screen.

1) Make sure that the BGM stops playing on the overhead speakers.

SUBTASK 44-21-00-710-014

(5) Key-Line Check

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 (Continued)

(a) Select the Maintenance tab on the ECP.
  1) Make sure that the Mode Exit Confirmation popup screen is shown.
(b) Select the Yes button on the Mode Exit Confirmation popup.
  1) Make sure that the Maintenance Mode Login screen is shown.
(c) Enter the correct password on the Maintenance Mode Login screen and select the Login button.
  1) Make sure that the Maintenance Mode Main Menu screen appears is shown.
(d) From the Maintenance Mode Main Menu screen, select the Exit to HDMS Test GUI button.
  1) Make sure that the warning popup screen is shown.
(e) From the warning popup screen, select OK button.
  1) Make sure that the HDMS Maintenance page is shown.
(f) From the HDMS Maintenance page screen, select the Airshow Maintenance button.
(g) Select the Service Support button.
(h) Select the Physical Discretes button.
  1) Make sure that the Discrete Inputs screen is Shown.
(i) Enable the No Smoking Switch from the cockpit.
  1) Make sure that keyline 3 changes from High to Low.
(j) Disable the No Smoking Switch from the cockpit.
  1) Make sure that keyline 3 changes from Low to High.
(k) Enable the Fasten Seatbelt Switch from the cockpit.
  1) Make sure that keyline 4 changes from High to Low.
(l) Disable the Fasten Seatbelt Switch from the cockpit.
  1) Make sure that keyline 4 changes from Low to High.
(m) From the Discrete Inputs screen, select the Close button and then select the Close button on the screen again.
  1) Make sure that the HDMS resets.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-00-710-015

(1) If IFE system is no longer needed, do this step at the forward attendant panel:
  (a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-00-860-082

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MASTER CONTROL UNIT - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Removal of the Master Control Unit.

(2) Installation of the Master Control Unit.

TASK 44-21-01-000-801

2. Master Control Unit Removal

A. General

(1) This task is the removal procedure for the Master Control Unit (MCU).

(2) The MCUs are located in the overhead above the aircraft ceiling panels.

(3) When you remove the MCUs, do not supply electrical power to the system.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)
44-21-18-000-801	Configuration Module Removal (P/B 401)

C. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

D. Prepare for the removal

SUBTASK 44-21-01-860-005

(1) Do these steps to prepare the MCU for the removal.

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999 (Continued)

(Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 446, 447, 455, 456			
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

SUBTASK 44-21-01-410-002

(2) To get access to the MCU, do the task: Ceiling Panel - Removal, TASK 25-21-45-000-801 or Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001

SUBTASK 44-21-01-910-001

(3) Before you do the procedure, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802

SUBTASK 44-21-01-020-001

(4) Do these steps to remove the MCU:

(a) Disconnect the cables from the MCU.

NOTE: Tag connectors for correct installation.

(b) Remove and retain the four mounting screws [4] and washers [3].

(c) Remove the MCU [1].

(d) Put protective cover on the electrical connectors [2].

SUBTASK 44-21-01-020-002

(5) Remove the configuration module [5] from J7 on the master control unit:

(a) Do this task:Configuration Module Removal, TASK 44-21-18-000-801

(b) Keep the configuration module for the installation.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Master Control Unit
Figure 401/44-21-01-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-01-400-801

3. Master Control Unit Installation

Figure 401

A. General

(1) This task is the installation procedure for the Advance Master Control Unit (MCU).

B. References

Reference	Title
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-18-400-801	Configuration Module Installation (P/B 401)

C. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

D. Master Control Unit Installation

SUBTASK 44-21-01-860-006

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD
LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999			

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 446, 447, 455, 456			
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

SUBTASK 44-21-01-420-001

(2) Install the configuration module [5] you kept from the removal on the master control unit:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Do this task: Configuration Module Installation, TASK 44-21-18-400-801.

SUBTASK 44-21-01-400-001

(3) Do these steps to install the MCU:

(a) Make sure the IFE Master Power Switch in the VCC is set to the OFF position.

(b) Remove the protective cover from the electrical connectors [2].

(c) Exam electrical connectors [2] for bent or broken pins, dirt, and damage.

(d) Position the MCU [1] in its location so that the connectors match the cables, and the screw holes align.

(e) Install the screws [4] and washers [3].

(f) Connect the cables to the MCU [1].

SUBTASK 44-21-01-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 446, 447, 455, 456			
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

E. Prepare for the Installation Test

SUBTASK 44-21-01-860-007

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

F. Master Control Unit Installation Test

SUBTASK 44-21-01-740-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-01-710-001

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Make sure that no faults are reported.

(b) Make sure that the zone powers up and remains powered.

G. Put the Airplane Back to its Usual Condition

SUBTASK 44-21-01-410-001

(1) For the applicable MCU, do this task: Ceiling Panel - Installation, TASK 25-21-45-400-801 or Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.

SUBTASK 44-21-01-860-008

(2) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

AREA DISTRIBUTION BOX - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Removal of the Area Distribution Box.

(2) Installation of the Area Distribution Box.

TASK 44-21-02-000-801

2. Area Distribution Box Removal

A. General

(1) This task is the removal procedure for the Area Distribution Box (ADB).

(2) The ADBs are located in the overhead bin above the aircraft ceiling panels.

(3) When you remove the ADBs, do not supply electrical power to the system.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the removal

SUBTASK 44-21-02-860-001

(1) Do these steps to prepare ADB for the removal.

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442, 453, 454			
D	6	C01453	VIDEO 2

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-02-010-001

(2) To get access to the ADB, do the task: Ceiling Panel - Removal, TASK 25-21-45-000-801 or Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-02-910-001

(3) Before you do the procedure, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802

SUBTASK 44-21-02-020-001

(4) Do these steps to remove the ADB:

(a) For the spring latched connectors, release the spring latch.

(b) Disconnect the electrical cables from the ADB.

NOTE: Tag the connectors for correct installation.

(c) Remove and keep the terminating plug, if one is installed.

(d) Remove and keep the four mounting screws and washers.

(e) Remove the ADB.

(f) Put protective covers on the electrical connectors.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Area Distribution Box (ADB) Installation
Figure 401/44-21-02-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-02-400-801

3. Area Distribution Box Installation

Figure 401

A. General

(1) This task is the installation procedure for the Area Distribution Box (ADB).

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-400-801	Load Software (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Area Distribution Box Installation

SUBTASK 44-21-02-860-006

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442, 453, 454			
D	6	C01453	VIDEO 2

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-02-400-001

(2) Do these steps to install the ADB:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CAUTION DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(a) Make sure the IFE Master Power Switch in the VCC is set to the OFF position.

(b) Remove the protective cover from the electrical connectors.

(c) Exam the electrical connectors for bent or broken pins, dirt, and damage.

(d) Position the ADB in its location so that the connectors match the cables, and the screw holes align.

(e) Install the screws and washers.

(f) Connect the electrical cables to the ADB.

SUBTASK 44-21-02-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442, 453, 454			
D	6	C01453	VIDEO 2

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-02-420-001

(4) Do the task: Ceiling Panel - Installation, TASK 25-21-45-400-801 or Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.

E. Prepare for the Installation Test

SUBTASK 44-21-02-860-007

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

SUBTASK 44-21-02-470-002

(2) Load the IFE System Software: Load Software, TASK 44-21-00-400-801.

F. Area Distribution Box Installation Test

SUBTASK 44-21-02-740-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-02-740-002

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Make sure that no faults are reported.

SUBTASK 44-21-02-710-001

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

G. Put the Airplane Back to Its Initial Condition

SUBTASK 44-21-02-860-008

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

SUBTASK 44-21-02-860-009

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW PANEL - REMOVAL/INSTALLATION

1. **General**
   A. This procedure has these tasks:
      (1) A removal of the crew panel
      (2) An installation of the crew panel.

LOM 466-999

B. The crew panel is also referred as the crew terminal.

LOM 437-439, 441

C. The Crew Panel is also known as Entertainment Control Panel (ECP).

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464

TASK 44-21-03-000-801

2. **Crew Panel Removal**
   (Figure 401 or Figure 402)

A. General

(1) This task is the removal procedure for Crew Panel (CP).
(2) The Crew Panels are located on the aft wall of LH lavatory.
(3) When you remove the Crew Panel, do not supply electrical power to the system.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Crew Panel Removal

SUBTASK 44-21-03-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464 (Continued)

(Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464			

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 458-460, 464

SUBTASK 44-21-03-020-005

(2) Do these steps to remove the attendant control panel shroud [5]:

(a) If it is necessary, pull and remove the SPIM face plate, from the side of the attendant control panel shroud [5].

(b) Remove the screws [4] from the attendant control panel shroud [5].

(c) Remove the attendant control panel shroud [5].

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464

SUBTASK 44-21-03-020-001

(3) Do these steps to remove the crew panel [1]:

(a) Remove the screws [2] from the crew panel [1].

(b) Tilt the top of the crew panel [1] forward and down to get access to the connector [3].

(c) If it is necessary, release the spring latches and remove the connector [3].

(d) Disconnect the electrical cables.

1) Tag connectors for correct installation.

(e) Remove the crew panel [1].

(f) Put protective covers on the electrical connectors.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Crew Panel Installation
Figure 401/44-21-03-990-805

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CREW PANEL WITH SHROUD (EXAMPLE)

A

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Crew Panel Installation
Figure 402/44-21-03-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-03-400-801

3. Crew Panel Installation

(Figure 401 or Figure 402)

A. General

(1) This task is the installation procedure for the Crew Panel (CP).

B. References

Reference	Title
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-400-801	Load Software (P/B 201)
44-21-00-400-802	Media Load (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Crew panel	44-21-03-01-085	LOM 427, 428, 433, 434, 440, 442-447, 462, 463
		44-21-03-02-075	LOM 416
		44-21-03-02-077	LOM 422, 425
		44-21-03-08-275	LOM 453-460
		44-21-03-09-295	LOM 464

D. Location Zones

Zone	Area
200	Upper Half of Fuselage

E. Crew Panel Installation

SUBTASK 44-21-03-860-005

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			
B	10	C01952	IFE DC

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464

SUBTASK 44-21-03-420-001

(2) Do these steps to install the crew panel [1]:

(a) Remove the protective cover from the electrical connectors.

(b) Connect the electrical cables to the crew panel [1].

(c) Attach the connector [3] and fix the spring latches.

(d) Rotate the crew panel [1] as required so that the connector [3] is on the bottom and place the crew panel [1] in the opening.

(e) Install the screws [2] to the crew panel [1].

LOM 458-460, 464

SUBTASK 44-21-03-410-001

(3) Do these steps to install the attendant control panel shroud [5]:

(a) Put the attendant control panel shroud [5] in its position.

(b) Install the screws [4] to the attendant control panel shroud [5].

(c) If it is necessary, push and install the SPIM face plate to the side of the attendant control panel shroud [5].

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464

SUBTASK 44-21-03-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464			
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464

F. Prepare for the Installation Test

SUBTASK 44-21-03-860-020

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen, do this task: Video Entertainment System - Activation, TASK 44-21-00-440-802.

SUBTASK 44-21-03-470-002

(2) If applicable, load the IFE System Software, do this task: Load Software, TASK 44-21-00-400-801.

LOM 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464

SUBTASK 44-21-03-470-003

(3) If applicable, load the Media, do this task: Media Load, TASK 44-21-00-400-802.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-447, 453-460, 462-464 (Continued)

G. Crew Panel Installation Test

SUBTASK 44-21-03-740-001

(1) Do this task: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-03-740-002

(2) Do this task: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-03-710-007

(3) Do this task: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-03-860-021

(1) If it is not necessary to continue to operate the system, do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

LOM 437-439, 441

TASK 44-21-03-000-803

4. Entertainment Control Panel - Removal

Figure 403

A. General

(1) This task is the removal procedure for Entertainment Control Panel (ECP).

(2) The Entertainment Control Panels are located on the aft wall of LH lavatory.

(3) When you remove the Entertainment Control Panel, do not supply electrical power to the system.

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

C. Prepare for the Removal

SUBTASK 44-21-03-860-007

(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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 (Continued)

D. Entertainment Control Panel (ECP) Removal

SUBTASK 44-21-03-020-003

> **CAUTION** DO NOT TOUCH THE CONNECTOR PINS OR OTHER CONDUCTORS ON THE UNIT. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) Do these steps to remove the ECP:

(a) Gain access to the ECP [1].

(b) Disconnect the cables from the ECP [1].

(c) Put protective covers on the electrical connector(s).

(d) Remove and retain the screws [2] and washers [3] securing the ECP [1].

(e) Remove the ECP [1] from the mounting bracket [4].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Entertainment Control Panel Installation
Figure 403/44-21-03-990-803

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-03-400-803

5. Entertainment Control Panel - Installation

Figure 403

A. General

(1) This task is the installation procedure for the Entertainment Control Panel (ECP).

B. References

Reference	Title
24-22-00-860-811	Supply Electrical Power (P/B 201)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left

D. Prepare for the Installation

SUBTASK 44-21-03-860-008

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

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

E. Entertainment Control Panel Installation

SUBTASK 44-21-03-420-002

> **CAUTION** DO NOT TOUCH THE CONNECTOR PINS OR OTHER CONDUCTORS ON THE UNIT. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) Do these steps to install the Entertainment Control Panel (ECP):

(a) Attach the ECP [1] to the mounting bracket [4] using the screws [2] and washers [3].

(b) Remove the protective cover from the electrical connectors.

(c) Connect the electrical cable(s) to the ECP [1].

F. Entertainment Control Panel Post-Installation Test

SUBTASK 44-21-03-860-009

(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

SUBTASK 44-21-03-860-010

(2) Do the task: Supply Electrical Power, TASK 24-22-00-860-811

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 (Continued)

SUBTASK 44-21-03-720-002

(3) Do these steps to test the Entertainment Control Panel:

(a) Make sure that the IFE/PASS SEAT switch on the P5 overhead panel in the cockpit is set to ON.

(b) Select Passenger Services from the attendant control panel, and press the Entertainment ON button to power on the IFE system.

(c) Select Manual Mode on the ECP.

(d) From the Entertainment screen, select the applicable zones as the monitor source.

(e) Select Movies as a video source.

(f) Select a genre and video title from the list of available movies.

(g) Select Deployed to deploy monitors.

1) Make sure that the monitors are deployed and on.

(h) Select Play to play the video.

1) Make sure that the video program is playing on the monitors.

2) Select a seat in each zone throughout the cabin to verify that video/audio is acceptable.

(i) Select Stowed to retract the monitors, and press stop to stop the video program.

1) Make sure that the monitors are retracted and off.

2) Make sure that the audio is not heard at the seats.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-03-860-011

(1) Do these steps at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

(b) Close access to ECP.

——— END OF TASK ———

LOM 466-999

TASK 44-21-03-000-807

6. Crew Terminal Removal

(Figure 404)

A. General

(1) This task includes the steps 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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 466-999 (Continued)

D. Prepare for the Removal

SUBTASK 44-21-03-860-027

(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, P6-12

Row	Col	Number	Name
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-03-910-001

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. Crew Terminal Removal

SUBTASK 44-21-03-020-011

(1) Remove the shroud [2].

(a) Remove the attendant headrests below the shroud [2].

(b) Remove the screws [3] that attach the shroud [2] to the lavatory wall.

(c) Carefully pull the shroud [2] from the aft face of the lavatory wall.

SUBTASK 44-21-03-020-012

(2) Remove the crew terminal [1].

(a) Disconnect the J2 connector [10] and J1 connector [9] from the crew terminal [1].

(b) Remove the nut [8], washer [7], and jumper [6] from the ground stud on the crew terminal [1].

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

(d) Remove the crew terminal [1] from the brackets on the aft face of the lavatory wall.

SUBTASK 44-21-03-020-013

(3) If it is necessary, remove the inline coupler [14].

(a) Remove the screws [12] and washers [13] from the bracket [11].

(b) Remove the bracket [11] that attach inline coupler [14] to the left bracket.

(c) Pull the inline coupler [14] from the left bracket.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Crew Terminal Installation
Figure 404/44-21-03-990-808 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Crew Terminal Installation
Figure 404/44-21-03-990-808 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 466-999 (Continued)

TASK 44-21-03-400-807

7. Crew Terminal Installation

(Figure 404)

A. General

(1) This task includes the steps 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)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-400-801	Load Software (P/B 201)
44-21-00-400-802	Media Load (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)
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-614	Bonding Meters - Non-Intrinsically Safe (For use in outside Class I, Divisions I & II non-hazardous locations. For hazardous locations, use COM-1550). Part #: 247000 Supplier: 00426 Part #: 620LK Supplier: 1CRL2 Part #: BLR-0003-XX Supplier: KC432 Part #: BT51 Supplier: 00426 Part #: M1 Supplier: 3AD17 Part #: M1B Supplier: 3AD17 Part #: T477W (C15292) Supplier: 06659 Opt Part #: 247001 Supplier: 00426

D. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	Crew terminal	44-21-03-12-125	LOM 466-999

E. Location Zones

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 466-999 (Continued)

F. Crew Terminal Installation

SUBTASK 44-21-03-910-002

> **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 44-21-03-420-009

(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 screws [12] and washers [13] that attach the inline coupler [14] to the bracket [11].

SUBTASK 44-21-03-420-010

(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 screws [4] and washers [5] that attach 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 electrical bonding resistance between the jumper [6] and the ground stud (SWPM 20-20-00).
      1) Use the non-intrinsically safe bonding meter, COM-614.
      2) Make sure that the electrical bonding resistance is 0.001 ohm (1.0 milliohm) or less.
   (e) Connect the J2 connector [10] and J1 connector [9] to the crew terminal [1].

SUBTASK 44-21-03-420-011

(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 screws [3] that attach the shroud [2] to the lavatory wall.
   (c) Install the attendant headrest below the shroud [2].

G. Crew Terminal Installation Test

SUBTASK 44-21-03-860-028

(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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 466-999 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-03-860-029

(2) Initialize the In-Flight Entertainment (IFE) system and log in to the CABIN MAINTENANCE screen (TASK 44-21-00-440-802).

SUBTASK 44-21-03-470-004

(3) If it is necessary, load the IFE system software (TASK 44-21-00-400-801).

SUBTASK 44-21-03-470-005

(4) If it is necessary, load the media, do this task: Media Load, TASK 44-21-00-400-802.

SUBTASK 44-21-03-740-005

(5) Do a configuration check, do this task: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-03-740-004

(6) Do a quick test, do this task: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-03-710-008

(7) Do an operational test, do this task: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-03-860-031

(1) If it is not necessary to continue to operate the system, do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FILE SERVER - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) Removal of the File Server (FS).

(2) Installation of the File Server (FS).

TASK 44-21-04-000-802

2. File Server Removal

A. General

(1) This task is the removal procedure for the File Server (FS).

LOM 416

(2) The File Server is located in the E6-1 rack in the aft cargo compartment.

LOM 422, 425, 433, 434, 440, 442, 453, 454, 458-460, 464

(3) The File Server is located in the E8-1 rack in the Fwd EE bay.

LOM 416, 422, 425, 433, 434, 440, 442, 453, 454, 458-460, 464

(4) When you remove the FS, do not supply electrical power to the system.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (P/B 201)

C. Location Zones

Zone	Area
100	Lower Half of Fuselage
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right

D. Prepare for the removal

SUBTASK 44-21-04-860-004

(1) Do these steps to prepare the File Server for the removal:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442, 453, 454, 458-460, 464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442, 453, 454, 458-460, 464			
B	10	C01952	IFE DC

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 433, 434, 440, 442, 453, 454, 458-460, 464 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-04-910-004

CAUTION

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the File Server, do the task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802

(3) To remove the File Server, do the task: E/E Box Removal, TASK 20-10-07-000-801

(4) Do the task: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ELECTRONIC EQUIPMENT RACK, E6

A

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File Server Installation
Figure 401/44-21-04-990-801 (Sheet 1 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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File Server Installation
Figure 401/44-21-04-990-801 (Sheet 2 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

File Server Installation
Figure 401/44-21-04-990-801 (Sheet 3 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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File Server Installation
Figure 401/44-21-04-990-801 (Sheet 4 of 4)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-04-400-802

3. File Server Installation

A. General

(1) This task is the installation procedure for the File Server (FS).

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
20-40-12-000-804	Conductive Dust Cap and Connector Cover Removal (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-400-801	Load Software (P/B 201)
44-21-00-400-802	Media Load (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
100	Lower Half of Fuselage

D. Do these steps to prepare the file server for installation:

SUBTASK 44-21-04-860-008

(1) Make sure that these circuit breakers are open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442, 453, 454, 458-460, 464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442, 453, 454, 458-460, 464			
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-04-860-006

(2) Do these steps to install the File Server:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-04-910-005

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(3) Before you touch the FS, do the task: E/E Box Installation, TASK 20-10-07-400-801.

SUBTASK 44-21-04-020-003

(4) Do the task: Conductive Dust Cap and Connector Cover Removal, TASK 20-40-12-000-804.

SUBTASK 44-21-04-420-004

(5) To install the FS, do the task: E/E Box Installation, TASK 20-10-07-400-801.

E. Do these steps to make sure that power to the LRU is on:

SUBTASK 44-21-04-860-005

(1) Do these steps to make sure that power to the LRU is ON:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442, 453, 454, 458-460, 464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442, 453, 454, 458-460, 464			
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

F. Prepare for the Installation Test

SUBTASK 44-21-04-860-009

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

SUBTASK 44-21-04-470-005

(2) If applicable, Load the IFE System Software: Load Software, TASK 44-21-00-400-801.

SUBTASK 44-21-04-470-006

(3) If applicable, Load the Media: Media Load, TASK 44-21-00-400-802.

G. File Server Installation Test

SUBTASK 44-21-04-740-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-04-740-002

(2) Do a Content Status check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that all content loaded in the FS are reporting correctly.

SUBTASK 44-21-04-740-003

(3) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-04-710-001

(4) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-04-860-010

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

SUBTASK 44-21-04-030-001

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER CONTROL UNIT - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) Removal of the Passenger Control Unit (PCU).

(2) Installation of the Passenger Control Unit (PCU).

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463

TASK 44-21-05-000-801

2. Passenger Control Unit Removal

A. General

(1) This task is the removal procedure for the Passenger Control Unit (PCU).

(2) The PCUs are located in the armrest of each passenger seat.

(3) When you remove the PCU, do not supply electrical power to the system.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 44-21-05-860-001

(1) Do these steps to prepare the PCU for removal.

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442, 445, 453, 454, 458-460			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463

This circuit breaker is inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416			
C	8	C01456	ENTERTAINMENT AUDIO (INOP)

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D. Removal Procedure

SUBTASK 44-21-05-020-001

(1) Do these steps to remove the PCU:

(a) Remove the fastener [2].

(b) Remove the PCU [1] from the seat to get access to the electrical connector(s) [3].

(c) Disconnect the electrical connector(s) [3].

(d) Remove the PCU [1].

(e) Put protective covers on the electrical connector(s) [3].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(EXAMPLE)

2320492 S0000526481_V2

Passenger Control Unit Installation
Figure 401/44-21-05-990-803

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-05-400-801

3. Passenger Control Unit Installation

A. General

(1) This task is the installation procedure for the Passenger Control Unit (PCU).

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Installation Procedure

SUBTASK 44-21-05-860-004

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442, 445, 453, 454, 458-460			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463

This circuit breaker is inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416			
C	8	C01456	ENTERTAINMENT AUDIO (INOP)

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463

SUBTASK 44-21-05-420-001

(2) Do these steps to install PCU:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463 (Continued)

(a) Remove the protective covers from the electrical connector [3].

(b) Connect the electrical connector [3].

(c) Install the PCU [1] in the seat.

(d) Install the fastener [2] on the PCU [1].

SUBTASK 44-21-05-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442, 445, 453, 454, 458-460			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463

This circuit breaker is inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416			
C	8	C01456	ENTERTAINMENT AUDIO (INOP)

LOM 416, 422, 425, 433, 434, 440, 442, 453, 454

E. Prepare for the Installation Test

SUBTASK 44-21-05-860-019

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463

F. PCU installation Test

SUBTASK 44-21-05-740-001

(1) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-05-710-004

(2) Do a Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463 (Continued)

G. Put the Airplane Back to Its Usual Condition

LOM 416, 422, 425, 433, 434, 440, 442, 453, 454

SUBTASK 44-21-05-860-020

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462, 463

SUBTASK 44-21-05-860-021

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

——— END OF TASK ———

LOM 437, 438

TASK 44-21-05-000-802

4. Digital Passenger Control Unit Removal

Figure 402

A. General

(1) This task is the removal procedure for the Digital Passenger Control Unit (DPCU).

(2) The DPCU are located in the arm rest of each passenger seat.

(3) When removing the DPCU, do not supply electrical power to the system.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 44-21-05-860-005

(1) Do these steps to prepare the DPCU for removal.

(a) 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

D. Removal Procedure

SUBTASK 44-21-05-420-002

(1) Do these steps to remove the DPCU:

(a) Loosen the clamp assembly inside the DPCU, by turning the screw counter clockwise.

(b) Gently pull out the DPCU from the seat arm rest.

CAUTION

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

(c) Disconnect the DPCU from the SEB in-seat cable.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437, 438 (Continued)

(d) Remove the DPCU.

(e) Put protective covers on the electrical connectors.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(EXAMPLE)

2097681 S0000443982_V2

Passenger Control Unit Installation
Figure 402/44-21-05-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-05-400-802

5. **Digital Passenger Control Unit Installation**

Figure 402

A. **General**

(1) This task is the installation procedure for the Digital Passenger Control Unit (DPCU).

B. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

C. **Installation Procedure**

SUBTASK 44-21-05-860-006

(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

SUBTASK 44-21-05-420-003

(2) Do these steps to install the DPCU

(a) Remove the protective covers from the electrical connectors.

(b) Locate the in-seat cables in the seat arm.

(c) Connect the DPCU cable connector to the SEB in-seat cable.

(d) Position the DPCU within the seat housing.

(e) Tighten the nut to secure the clamp located inside the DPCU.

SUBTASK 44-21-05-860-007

(3) 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

D. **DPCU Installation Test**

SUBTASK 44-21-05-710-001

(1) Do these steps to test the DPCU.

(a) Select Passenger Services from the attendant control panel, and press the Entertainment ON button to power on the IFE system.

(b) Connect headphones to the audio jacks at the seat location of the DCPU that was replaced.

(c) Make sure audio can be heard through the headphones.

(d) Make sure music is available on various channel selections.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437, 438 (Continued)

E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-05-860-008

(1) Do these steps at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

REMOTE JACK UNIT - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) The removal of the Remote Jack Unit (RJU).

(2) The installation of the Remote Jack Unit (RJU).

B. The Audio Jacks provide connection for passenger entertainment headsets.

TASK 44-21-06-000-801

2. Remote Jack Unit Removal

(Figure 401)

A. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Removal Procedure

SUBTASK 44-21-06-860-001

(1) At the forward attendant panel, put the IFE Power switch to the OFF position.

SUBTASK 44-21-06-860-002

(2) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	9	C01945	IFE AC
LOM 422, 425			
B	9	C01646	IVS HEAD-END
LOM 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	10	C01952	IFE DC
LOM 427, 428, 437, 438, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999 (Continued)

(Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

SUBTASK 44-21-06-910-001

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(3) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

LOM 437, 438

SUBTASK 44-21-06-020-001

(4) Do these steps to remove the Remote Jack Unit:

(a) Remove the screw that hold the RJU to its mounting surface.

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

(b) Disconnect the electrical connector.

(c) Remove the RJU.

LOM 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-463, 466-999

SUBTASK 44-21-06-020-002

(5) Do these steps to remove the Remote Jack Unit:

(a) Open the seat and get access to the mounting bracket that the RJU is secured on.

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

(b) Disconnect the electrical connector.

(c) Remove the screws that hold the RJU mounting bracket to its mounting surface.

(d) Remove the RJU.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

SUBTASK 44-21-06-020-003

(6) Do these steps to remove the Noise Cancelling Remote Jack Unit:

(a) Open the seat and get access to the mounting bracket that the NC-RJU is secured on.

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

(b) Disconnect the electrical connector.

(c) Remove the screws that hold the NC-RJU mounting bracket to its mounting surface.

(d) Remove the NC-RJU.

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

SUBTASK 44-21-06-710-001

(7) Do this task: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

RCA23980
1971186 S0000378779_V2

Remote Jack Unit - Installation
Figure 401/44-21-06-990-801 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 IN SOME INSTALLATIONS, THE SCREW IS ATTACHED FROM THE OPPOSITE SIDE.

2 THE REMOTE JACK UNIT CAN LOOK DIFFERENT.

M7564

1971281 S0000378824_V2

Remote Jack Unit - Installation
Figure 401/44-21-06-990-801 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 IN SOME INSTALLATIONS, THE SCREW IS ATTACHED FROM THE OPPOSITE SIDE.

2 THE REMOTE JACK UNIT CAN LOOK DIFFERENT.

1971521 S0000379171_V2

Remote Jack Unit - Installation
Figure 401/44-21-06-990-801 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-06-400-801

3. Remote Jack Unit Installation

(Figure 401)

A. References

Reference	Title
20-40-12-000-804	Conductive Dust Cap and Connector Cover Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)

B. Tools/Equipment

Reference	Description
STD-6722	Passenger Headset

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Installation Procedure

SUBTASK 44-21-06-860-003

(1) At the forward attendant panel, make sure IFE Power switch is set to the OFF position.

SUBTASK 44-21-06-860-004

(2) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	9	C01945	IFE AC
LOM 422, 425			
B	9	C01646	IVS HEAD-END
LOM 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	10	C01952	IFE DC
LOM 427, 428, 437, 438, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999 (Continued)

(Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

SUBTASK 44-21-06-910-002

CAUTION DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(3) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-06-910-003

(4) Do this task: Conductive Dust Cap and Connector Cover Removal, TASK 20-40-12-000-804.

LOM 437, 438

SUBTASK 44-21-06-400-002

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

(5) Do these steps to Install the Remote Jack Unit:

(a) Remove the protective covers from the electrical connector.

(b) Examine the electrical connector for bent or broken pins, dirt, and damage.

(c) Connect the electrical connector for the RJU.

(d) Carefully put the RJU in its position.

(e) Install the screws that hold the RJU to its mounting surface.

NOTE: Make sure the RJU is secure.

LOM 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-463, 466-999

SUBTASK 44-21-06-400-001

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

(6) Do these steps to Install the Remote Jack Unit:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-463, 466-999 (Continued)

(a) Remove the protective covers from the electrical connector.

(b) Examine the electrical connector for bent or broken pins, dirt, and damage.

(c) Connect the electrical connectors for the RJU.

(d) Carefully put the RJU in its position and place it against the mounting bracket.

(e) Install the screws that hold the RJU mounting bracket to its mounting surface.

NOTE: Make sure the RJU is secure.

LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

SUBTASK 44-21-06-400-003

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

(7) Do these steps to Install the Noise Cancelling - Remote Jack Unit:

(a) Remove the protective covers from the electrical connector.

(b) Examine the electrical connector for bent or broken pins, dirt, and damage.

(c) Connect the electrical connectors for the NC-RJU.

(d) Carefully put the NC-RJU in its position and place it against the mounting bracket.

(e) Install the screws that hold the NC-RJU mounting bracket to its mounting surface.

NOTE: Make sure the NC-RJU is secure.

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

SUBTASK 44-21-06-710-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	9	C01945	IFE AC
LOM 422, 425			
B	9	C01646	IVS HEAD-END
LOM 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464, 466-999			
B	10	C01952	IFE DC
LOM 427, 428, 437, 438, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999 (Continued)

(Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

SUBTASK 44-21-06-860-005

(9) At the forward attendant panel, put the IFE Power switch to the ON position.

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

E. Prepare for the Installation Test

SUBTASK 44-21-06-860-006

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

F. Remote Jack Unit Installation Test

SUBTASK 44-21-06-710-003

(1) To do the In-Seat Audio Test, do the steps that follow:

(a) Provide an audio source to the repaired RJU.

(b) Connect a passenger headset, STD-6722 to the RJU.

(c) Make sure that audio is heard in the passenger headset, STD-6722.

G. Put the Airplane Back to Its Usual Condition

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

SUBTASK 44-21-06-860-007

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

LOM 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464, 466-999

SUBTASK 44-21-06-860-008

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SMART DISPLAY UNIT - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) The removal of the Smart Display Unit (SDU).

(2) The installation of the Smart Display Unit (SDU).

B. The SDU is can also be referred to as the Smart Video Display Unit (SVDU).

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454

TASK 44-21-07-000-801

2. Seat Back Smart Display Unit Removal

(Figure 401)

A. General

(1) This task is the removal procedure for the Smart Display Unit monitor.

(2) The SDUs are located on the back of each passenger seat.

(3) When you remove the SDU monitor, do not supply electrical power to the system.

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. Removal Procedure

SUBTASK 44-21-07-860-001

(1) Do these steps to prepare the SDU for removal:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442-444, 453, 454			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442-444, 453, 454			
B	10	C01952	IFE DC
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442-444, 453, 454			
D	6	C01453	VIDEO 2

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

(b) Make sure that the IFE/PC power switch on P13 attendant panel is set to the OFF position.

SUBTASK 44-21-07-910-001

CAUTION

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the SDU, do the task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

SUBTASK 44-21-07-020-005

(3) Do these steps to remove the SDU:

(a) Remove the headrest.

(b) Remove the seat fabric.

NOTE: The seat fabrics are attached by a Velcro strap at the top of the backrest.

(c) Remove the back cushion.

(d) Remove the screws that hold the SDU to the mounting plate.

NOTE: The mounting plate will remain as part of the seat tilt mechanism.

(e) Disconnect the SDU connector(s).

(f) Remove the SDU monitor.

(g) Put protective covers on the electrical connectors.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

2243254 S0000501938_V2

Seat Back Smart Display Unit
Figure 401/44-21-07-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-07-400-801

3. **Seat Back Smart Display Unit Installation**
(Figure 401)

A. **General**

(1) This task is the installation procedure for the Smart Display Unit (SDU).

(2) The SDUs are located on the back of each passenger seat.

(3) When you install the SDU do not supply electrical power to the system.

B. **References**

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. **Location Zones**

Zone	Area
200	Upper Half of Fuselage

D. **Installation Procedure**

SUBTASK 44-21-07-860-004

(1) Do these steps to prepare for installation:

(a) Make sure that the IFE/PC power switch on P13 attendant panel is set to the OFF position.

(b) Make sure that these circuit breakers are open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442-444, 453, 454			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442-444, 453, 454			
B	10	C01952	IFE DC
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442-444, 453, 454			
D	6	C01453	VIDEO 2

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 433, 434, 440, 442-444, 453, 454 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-07-860-013

CAUTION

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the SDU, refer to this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-07-420-005

(3) Do these steps to install the SDU:

(a) Remove the protective cover from the electrical connectors.

(b) Examine the electrical connectors for bent or broken pins, dirt, and damage.

(c) Connect the electrical connectors.

(d) Tighten the screws that hold the SDU to the mounting plate.

(e) Install the back cushion.

(f) Install the seat fabric.

(g) Install the headrest.

SUBTASK 44-21-07-860-002

(4) Do these steps to make sure that power to the SDU is ON:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442-444, 453, 454			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442-444, 453, 454			
B	10	C01952	IFE DC
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442-444, 453, 454			
D	6	C01453	VIDEO 2

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 433, 434, 440, 442-444, 453, 454 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

(b) Make sure that the IFE/PC power switch on P13 attendant panel is set to the ON position.

E. Prepare for the Installation Test

SUBTASK 44-21-07-860-017

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

F. Smart Display Unit Installation Test

SUBTASK 44-21-07-740-005

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-07-740-006

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-07-710-016

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

G. Put the Airplane Back in Its Initial Condition

SUBTASK 44-21-07-860-018

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

——— END OF TASK ———

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

TASK 44-21-07-000-802

4. In-Arm Smart Display Unit Removal

A. General

(1) This task is the removal procedure for the In-Arm Smart Display Unit (SDU).

(2) When you remove the SDU monitor, do not supply electrical power to the system.

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D. Removal Procedure

SUBTASK 44-21-07-865-001

(1) Do these steps to prepare for removal:

(a) Set the IFE/PC power switch on P13 attendant panel to the OFF position.

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442-444, 453, 454, 458-460, 464			
D	6	C01453	VIDEO 2

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

SUBTASK 44-21-07-860-014

> **CAUTION**
> DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

SUBTASK 44-21-07-020-002

(3) Do these steps to remove the In-Arm Seat Display Unit (SDU):

(a) Move the SDU to get access to the access panel screws on the underside of the monitor bracket.

(b) Remove the access panel.

(c) Remove the attachment screws from the SDU.

(d) Lift the SDU from the monitor bracket to get access to the electrical connector.

(e) Disconnect the electrical connector from the SDU.

(f) Remove the SDU from the passenger seat.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

BUSINESS CLASS SEAT
(EXAMPLE)

U92448 S0000223903_V2

In-Arm LCD Monitor
Figure 402/44-21-07-990-802

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-07-400-802

5. In-Arm Smart Display Unit Installation

Figure 402

A. General

(1) This task is the installation procedure for the In-Arm Seat Video display unit.

(2) When you install the In-Arm Seat Video display units do not supply electrical power to the system.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Installation Procedure

SUBTASK 44-21-07-860-005

(1) Do these steps to prepare for Installation:

(a) Make sure the IFE/PC power switch on P13 attendant panel is set to the OFF position.

(b) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442-444, 453, 454, 458-460, 464			
D	6	C01453	VIDEO 2

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-07-860-015

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-07-420-002

(3) Do these steps to install the In-Arm Seat Display Unit (SDU):

(a) Connect the electrical connector to the SDU.

(b) Put the SDU into the monitor bracket.

(c) Install the attachment screws.

(d) Install the access panel on the underside of the monitor bracket.

SUBTASK 44-21-07-860-003

(4) Do these steps to make sure that power to the In-Arm Seat Video display unit is ON:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442-444, 453, 454, 458-460, 464			
D	6	C01453	VIDEO 2

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

(b) Set the IFE/PC power switch on P13 attendant panel to the ON position.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

E. Prepare for the Installation Test

SUBTASK 44-21-07-860-020

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F. In-Arm Seat Video Display Unit Installation Test

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

SUBTASK 44-21-07-740-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-07-740-002

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

SUBTASK 44-21-07-710-014

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

G. Put the Airplane Back in Its Initial Condition

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

SUBTASK 44-21-07-860-021

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

SUBTASK 44-21-07-860-022

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454

TASK 44-21-07-000-803

6. Wall Mounted Smart Display Unit Removal

A. General

(1) This task is the removal procedure for the Wall Mounted Smart Display Unit (SDU).

(2) The SDUs are located on the partition.

(3) When you remove the SDU monitor, do not supply electrical power to the system.

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. Removal Procedure

SUBTASK 44-21-07-860-006

(1) Do these steps to prepare the SDU for removal:

(a) Set the IFE/PC power switch on P13 attendant panel to the OFF position.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454 (Continued)

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442-444, 453, 454			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442-444, 453, 454			
B	10	C01952	IFE DC
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442-444, 453, 454			
D	6	C01453	VIDEO 2

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-07-910-002

CAUTION

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the SDU, do the task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802

SUBTASK 44-21-07-020-003

(3) For SDU without mounting plate, do these steps to remove the SDU [4]:

(a) Remove the four screws [1] that hold the shroud [2] to the wall unit [3].

(b) Release the spring latch if applicable.

(c) Remove the shroud [2].

(d) Disconnect the cable from the SDU [4].

(e) Loosen the four captive screws [5] that hold the SDU [4] on the wall unit [3].

(f) Remove the SDU [4].

(g) Put protective cover on the electrical connectors.

SUBTASK 44-21-07-020-004

(4) For SDU with mounting plate, do these steps to remove the SDU [1]:

(a) Remove the four mounting screws [7] from the mounting plate [6].

(b) Release the spring latch [2] if applicable.

(c) Disconnect the cable from the SDU [1].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454 (Continued)

(d) Remove the four retaining screws [5] and washers [4] that hold the SDU [1] and shroud [3] together.

(e) Remove the SDU [1].

(f) Put protective cover on the electrical connectors [8].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1320783 S0000231979_V2

Wall Mounted SDU Installation
Figure 403/44-21-07-990-803 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1321922 S0000232522_V2

Wall Mounted SDU Installation
Figure 403/44-21-07-990-803 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-07-400-803

7. Wall Mounted Smart Display Unit Installation

Figure 403

A. General

(1) This task is the installation procedure for the Smart Display Unit (SDU).

(2) The wall mounted SDUs are located on the wall partitions.

(3) When you install the SDU, do not supply electrical power to the system.

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Installation Procedure

SUBTASK 44-21-07-860-007

(1) Do these steps to prepare for installation:

(a) Make sure the IFE/PC power switch on P13 attendant panel is set to the OFF position.

(b) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442-444, 453, 454			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442-444, 453, 454			
B	10	C01952	IFE DC
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442-444, 453, 454			
D	6	C01453	VIDEO 2

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454 (Continued)

(Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-07-910-004

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the SDU, do the task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-07-420-003

(3) For SDU without mounting plate, do these steps to install the Wall Mounted SDU [4]:

(a) Remove the protective cover from the electrical connectors.

(b) Examine the electrical connectors for bent or broken pins, dirt, and damage.

(c) Set the SDU [4] into the place on the wall unit [3].

(d) Tighten the captive screws [5].

(e) Connect the cable to the SDU [4].

(f) Install the shroud [2] on the wall unit [3].

SUBTASK 44-21-07-420-004

(4) For SDU with mounting plate, do these steps to install the Wall Mounted SDU [1]:

(a) Remove the protective cover from the electrical connectors [8].

(b) Examine the electrical connectors [8] for bent or broken pins, dirt, and damage.

(c) Install the four retaining screws [5] and washers [4] to put together the SDU [1] and the shroud [3].

(d) Connect the cable to the wall mounted SDU [1].

> **CAUTION** 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.

(e) Attach the connectors [8] with the spring latches [2].

(f) Install the four mounting screws [7] to the mounting plate [6].

SUBTASK 44-21-07-860-008

(5) Do these steps to make sure that power to the SDU is ON:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442-444, 453, 454			
B	9	C01945	IFE AC

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 433, 434, 440, 442-444, 453, 454 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442-444, 453, 454			
B	10	C01952	IFE DC
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
D	5	C01452	VIDEO 1
LOM 416, 433, 434, 440, 442-444, 453, 454			
D	6	C01453	VIDEO 2

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

(b) Set the IFE/PC power switch on P13 attendant panel to the ON position.

E. Prepare for the Installation Test

SUBTASK 44-21-07-860-023

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

F. Smart Display Unit Installation Test

SUBTASK 44-21-07-740-003

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-07-740-004

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-07-710-015

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

G. Put the Airplane Back in Its Initial Condition

SUBTASK 44-21-07-860-024

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SYSTEM CONTROLLER UNIT - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) Removal of the System Controller Unit.

(2) Installation of the System Controller Unit.

TASK 44-21-08-000-802

2. System Controller Unit Removal

A. General

(1) This task is the removal procedure for the System Controller unit (SCU).

(2) The SCU is located in the following location:

LOM 416

(a) E-6 rack in the Fwd EE bay.

LOM 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464

(b) E-8 rack in the Fwd EE bay.

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464

(3) When you remove the SCU, do not supply electrical power to the system.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (P/B 201)

C. Location Zones

Zone	Area
100	Lower Half of Fuselage

D. Prepare for the Removal

SUBTASK 44-21-08-860-008

(1) Do these steps to prepare the SCU for the removal:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464			
B	10	C01952	IFE DC

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464

ECCN 9E991 BOEING PROPRIETARY - See title page for details

E. Removal Procedure

SUBTASK 44-21-08-910-003

(1) Before you touch the SCU, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

SUBTASK 44-21-08-020-003

(2) To remove the SCU, do this task: E/E Box Removal, TASK 20-10-07-000-801.

SUBTASK 44-21-08-420-003

(3) Do this task: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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SCU Installation
Figure 401/44-21-08-990-804

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-08-400-802

3. System Controller Unit Installation

A. General

(1) This task is the installation procedure for the System Controller Unit (SCU).

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
20-40-12-000-804	Conductive Dust Cap and Connector Cover Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-400-801	Load Software (P/B 201)
44-21-00-400-802	Media Load (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
100	Lower Half of Fuselage

D. Prepare for the Installation

SUBTASK 44-21-08-860-009

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464			
B	10	C01952	IFE DC

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464

E. Installation Procedure

SUBTASK 44-21-08-910-004

> **CAUTION**
> DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) Before you touch the SCU, do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-08-020-004

(2) Do this task: Conductive Dust Cap and Connector Cover Removal, TASK 20-40-12-000-804.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-08-420-004

(3) To install the SCU, do the task: E/E Box Installation, TASK 20-10-07-400-801.

SUBTASK 44-21-08-860-011

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464			
B	10	C01952	IFE DC

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442, 445, 453, 454, 457-460, 462-464

F. Prepare for the Installation Test

SUBTASK 44-21-08-860-024

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

SUBTASK 44-21-08-470-007

(2) If applicable, Load the IFE System Software: Load Software, TASK 44-21-00-400-801.

SUBTASK 44-21-08-470-008

(3) If applicable, Load the Media: Media Load, TASK 44-21-00-400-802.

G. System Controller Unit Installation Test.

SUBTASK 44-21-08-740-001

(1) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-08-710-003

(2) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

H. Put the airplane back to its initial condition.

SUBTASK 44-21-08-860-025

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

SUBTASK 44-21-08-860-012

(2) If necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MULTI-FUNCTION HANDSET - REMOVAL/INSTALLATION

1. General

A. This procedure has these task:

(1) Removal of the Multifunction Handset.

(2) Removal of the Multifunction Handset Cradle with Cord Reel.

(3) Installation of the Multifunction Handset.

(4) Installation of the Multifunction Handset Cradle with Cord Reel.

TASK 44-21-09-000-801

2. Multi-Function Handset Removal

A. General

(1) This task gives the instructions to remove the multi-function handset from the passenger seat arm-rest.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Removal Procedure

SUBTASK 44-21-09-860-001

(1) Do these steps to prepare the handset for removal:

(a) Set the IFE/PC power switch on P13 attendant panel to the OFF position.

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-09-020-001

(2) Do these steps to remove the handset:

(a) Remove the handset from the cradle.

(b) Loosen one screw from the connector plug (screw is retained in plug).

(c) Disconnect the cable from the handset.

(d) Remove the handset.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Multi-Function Passenger Control Unit Handset Installation
Figure 401/44-21-09-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-09-400-801

3. Multi-Function Handset Installation

Figure 401

A. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Installation Procedure

SUBTASK 44-21-09-860-002

(1) Do these steps to prepare for the installation:

(a) Make sure the IFE/PC power switch on P13 attendant panel is set to the OFF position.

(b) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-09-420-001

(2) Do these steps to install the Multi-Function Handset:

(a) Connect the electrical cable to the Handset.

(b) Reinstall connector plug with one screw.

(c) Put the Handset into the Cradle.

NOTE: If the Handset does not fit into the Cradle properly, light pressure on the lower corners of the unit is sufficient to seat the connectors.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-09-860-004

(3) Close these circuit breakers:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

D. Prepare for the Installation Test

SUBTASK 44-21-09-860-006

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

E. Installation Test

SUBTASK 44-21-09-740-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-09-740-002

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-09-710-001

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

F. Put the airplane back to its initial condition

SUBTASK 44-21-09-860-007

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

SUBTASK 44-21-09-860-008

(2) If necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

——— END OF TASK ———

TASK 44-21-09-000-802

4. Multifunction Handset Cradle with Cord Removal

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Removal Procedure

SUBTASK 44-21-09-020-002

(1) Do these steps to prepare the handset cradle for removal:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Set the IFE/PC power switch on P13 attendant panel to the OFF position.

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-09-020-004

(2) Do the task: Multi-Function Handset Removal, TASK 44-21-09-000-801

SUBTASK 44-21-09-020-003

(3) Do these steps to remove the handset cradle assembly:

(a) Disengage the four quarter-turn fasteners that secure the Cradle to the base unit.

(b) Remove the cradle.

SUBTASK 44-21-09-020-005

(4) Do this step to remove the Cord Reel:

(a) Remove the Cord Reel from the Cradle.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CRADLE ASSEMBLY

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Multi-Function Handset Cradle Installation
Figure 402/44-21-09-990-802

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-09-400-802

5. Multifunction Handset Cradle with Cord Reel Installation

Figure 402

A. Location Zones

Zone	Area
200	Upper Half of Fuselage

B. Installation Procedure

SUBTASK 44-21-09-860-003

(1) Do these steps to prepare for installation:

(a) Make sure the IFE/PC power switch on P13 attendant panel is set to the OFF position

(b) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-09-420-002

(2) Do this step to install the Cord Reel:

(a) Install the Cord Reel into the Cradle.

SUBTASK 44-21-09-400-001

(3) Do this step to install the Handset Cradle:

(a) Place the Cradle into base unit and tighten the four quarter-turn fasteners to secure the Cradle to the base unit.

SUBTASK 44-21-09-400-002

(4) Do this task: Multi-Function Handset Installation, TASK 44-21-09-400-801

SUBTASK 44-21-09-860-005

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

(6) Set the IFE/PC power switch on P13 attendant panel to the ON position.

C. Installation Test

SUBTASK 44-21-09-700-002

(1) Do this test of the Multi-Function Handset:

(a) Select the IFE/PC power switch on P13 attendant panel to the ON position.

NOTE: Wait approximately 5 minutes for system power up sequence and MAIN MENU screen to appear.

1) Make sure the handset is operational to maneuver through different screens and functionality.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SEAT ELECTRONICS BOX - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) Removal of the Seat Electronics Box.

(2) Installation of the Seat Electronics Box.

LOM 443, 444

B. The Zone Terminator (ZT) is removed and installed the same as an SEB.

(1) The ZT is an SEB without the video support.

(2) The ZTs are usually installed in the last row of seats without seatback displays.

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

TASK 44-21-11-000-801

2. Seat Electronics Box Removal

(Figure 401)

A. General

(1) This task is the removal procedure for the Seat Electronics Box (SEB).

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442, 445, 453, 454, 457, 462, 463

(2) The SEB is installed under each seat group.

LOM 443, 444, 458-461, 464

(3) The SEB is installed in the seat pan of the passenger seat.

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

(4) When you remove the SEB, do not supply the electrical power to the system.

B. References

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

C. Location Zones

Zone	Area
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

D. Removal Procedure

SUBTASK 44-21-11-860-001

(1) Do these steps to prepare the SEB for removal:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464			
B	9	C01945	IFE AC

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464			
B	10	C01952	IFE DC
LOM 427, 428, 437, 438, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)
LOM 416			
C	8	C01456	ENTERTAINMENT AUDIO (INOP)

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

SUBTASK 44-21-11-860-006

CAUTION

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the SEB, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

LOM 443, 444, 458-461, 464

SUBTASK 44-21-11-000-001

(3) Do these steps to get access to the SEB:

NOTE: The SEB is installed under the seat.

(a) Remove the bottom seat cushion.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 458-461, 464 (Continued)

(b) Remove the seat pan.

NOTE: It may be necessary to remove other seat components like seat arms or seat belts.

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442, 445, 453, 454, 457, 462, 463

SUBTASK 44-21-11-020-001

(4) Do these steps to remove the SEB:

(a) If applicable, remove the screws that attach the shroud to the mounting surface.

(b) Remove the shroud.

(c) Remove the electrical connectors.

NOTE: Do not remove the EMI filter if applicable from the in-seat harness when you remove the electrical connectors.

LOM 437, 438

(d) Remove the modular plug connectors.

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442, 445, 453, 454, 457, 462, 463

(e) Pull the fasteners that attach the SEB to the mounting surface.

(f) Remove the SEB.

LOM 443, 444, 458-461, 464

SUBTASK 44-21-11-020-002

(5) Do these steps to remove the SEB:

(a) Remove the electrical connectors attached to the SEB.

NOTE: Do not remove the EMI filter (if applicable) from the in-seat harness when you remove the electrical connectors.

(b) Remove the four fasteners that attach the SEB to the seat

(c) Remove the SEB.

(d) Place protective covers on the electrical connectors.

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Seat Electronics Box (SEB) Installation
Figure 401/44-21-11-990-801 (Sheet 1 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER SEAT
(EXAMPLE)

1870347 S0000331718_V2

Seat Electronics Box (SEB) Installation
Figure 401/44-21-11-990-801 (Sheet 2 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1870067 S0000335202_V2

Seat Electronics Box (SEB) Installation
Figure 401/44-21-11-990-801 (Sheet 3 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

B

H98124 S0006565950_V2

Seat Electronics Box (SEB) Installation
Figure 401/44-21-11-990-801 (Sheet 4 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1870068 S0000335203_V2

Seat Electronics Box (SEB) Installation
Figure 401/44-21-11-990-801 (Sheet 5 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1871826 S0000335484_V2

Seat Electronics Box (SEB) Installation
Figure 401/44-21-11-990-801 (Sheet 6 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SEAT DATA BOX
(EXAMPLE)

A

2288688 S0000517817_V2

Seat Electronics Box (SEB) Installation
Figure 401/44-21-11-990-801 (Sheet 7 of 7)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-11-400-801

3. Seat Electronics Box Installation

(Figure 401)

A. General

(1) This task is the installation procedure for the seat electronics box (SEB).

B. References

Reference	Title
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)
44-21-00-800-803	LRU Readdress (P/B 201)
44-21-00-800-813	Set Up dPAVES Configuration (P/B 201)

C. Location Zones

Zone	Area
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

D. Installation Procedure

SUBTASK 44-21-11-840-002

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) Before you touch the SEB, do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-11-860-005

(2) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464			
B	10	C01952	IFE DC
LOM 427, 428, 437, 438, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427, 428, 437, 438, 445, 457-460, 462, 463 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)
LOM 416			
C	8	C01456	ENTERTAINMENT AUDIO (INOP)

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442, 445, 453, 454, 457, 462, 463

SUBTASK 44-21-11-420-001

(3) Do these steps to install the SEB:

(a) Put the SEB in its correct position on the mounting surface.

(b) Install the fasteners that attach the SEB to the mounting surface.

1) Make sure the EMI filter is installed on each in-seat harness before you connect the electrical connectors (if applicable).

(c) Connect the electrical connectors.

LOM 437, 438

(d) Connect the modular plug connectors [5].

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442, 445, 453, 454, 457, 462, 463

(e) If applicable, put the shroud in its correct position.

(f) Install the screws that attach the shroud to the seat bracket.

LOM 443, 444, 458-461, 464

SUBTASK 44-21-11-420-002

(4) Do these steps to install the SEB:

(a) Remove the electrical connector covers.

(b) Examine the electrical connectors for bent or broke pins, dirt, and damage.

(c) Place the SEB [1] on its mounting surface inside the seat.

(d) Install the fasteners [2] to secure the SEB [1].

(e) Connect the electrical connectors to the SEB [1].

SUBTASK 44-21-11-410-001

(5) To return the seat to its usual condition, do these steps:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 458-461, 464 (Continued)

(a) Install the seat pan.

NOTE: It may be necessary to install other seat components like seat arms or seat belts.

(b) Install the seat cushion.

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

SUBTASK 44-21-11-860-004

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
LOM 416, 422, 425, 463			
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-460, 462-464			
B	10	C01952	IFE DC
LOM 427, 428, 437, 438, 445, 457-460, 462, 463			
C	8	C01456	ENTERTAINMENT AUDIO

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)
LOM 416			
C	8	C01456	ENTERTAINMENT AUDIO (INOP)

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

E. Prepare for the Installation Test

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

SUBTASK 44-21-11-860-012

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444

SUBTASK 44-21-11-860-009

(2) If necessary do the task:LRU Readdress, TASK 44-21-00-800-803.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

F. Seat Electronics Box Installation Test

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464

SUBTASK 44-21-11-740-001

(1) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-11-740-002

(2) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-461, 464

SUBTASK 44-21-11-710-006

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

LOM 437, 438

G. Seat Electronics Box Post-Installation Test

SUBTASK 44-21-11-720-001

(1) Do these steps to test the Seat Electronics Box:

(a) Make sure that the IFE/PASS SEAT switch on the P5 overhead panel in the cockpit is set to ON.

(b) Select Passenger Services from the attendant control panel, and press the Entertainment ON button to power on the IFE system.

(c) Initialize the desired configuration file: Set Up dPAVES Configuration, TASK 44-21-00-800-813.

(d) Select Manual Mode on the ECP.

(e) From the Entertainment screen, select the applicable zones as the monitor source.

(f) Select Movies as a video source.

(g) Select a genre and video title from the list of available movies.

(h) Select Deployed to deploy monitors.

1) Make sure that the monitors are deployed and on.

(i) Select Play to play the video.

1) Make sure that the video program is playing on the monitors.

2) Select a seat in each zone throughout the cabin to verify that video/audio is acceptable.

(j) Select Stowed to retract the monitors, and press stop to stop the video program.

1) Make sure that the monitors are retracted and off.

2) Make sure that the audio is not heard at the seats.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427, 428, 445, 457-460, 462, 463

H. Seat Electronics Box Post-Installation Test

SUBTASK 44-21-11-720-002

(1) Do these steps to test the Seat Electronics Box:

(a) Select Passenger Services from the attendant control panel, and press the Entertainment ON button to power on the IFE system.

(b) Connect headphones to the audio jacks at the seat location of the DCPU that was replaced.

(c) Make sure audio can be heard through the headphones.

(d) Make sure music is available on various channel selections.

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

I. Put the Airplane Back in its Usual Condition

LOM 416, 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464

SUBTASK 44-21-11-860-013

(1) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

LOM 416, 422, 425, 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

SUBTASK 44-21-11-860-003

(2) Do these steps at the forward attendant panel:

LOM 427, 428, 433, 434, 437, 438, 440, 442-445, 453, 454, 457-464

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

LOM 416, 422, 425

(b) Turn off the IFE system.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SEAT ELECTRONICS BOX - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Seat Electronics Box Removal.

(2) Seat Electronics Box Installation.

TASK 44-21-11-000-803-002

2. Seat Electronics Box Removal

(Figure 401)

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 44-21-11-860-019-002

(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

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-11-860-020-002

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 Electronics Box Removal

SUBTASK 44-21-11-020-003-002

(1) Remove the seat electronics box [{1].

(a) Remove the screws [5].

(b) Remove the shroud [4].

(c) Remove the electrical connectors [3].

(d) Remove the fasteners [2].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER SEATS
(EXAMPLE)

2821418 S0000652582_V1

Seat Electronics Box Installation
Figure 401/44-21-11-990-803-002 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

A

SEAT ELECTRONICS BOX

B

2821419 S0000652583_V1

Seat Electronics Box Installation
Figure 401/44-21-11-990-803-002 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-11-400-803-002

3. Seat Electronics Box Installation

(Figure 401)

A. General

(1) This task has instructions to install 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. Seat Electronics Box Installation

SUBTASK 44-21-11-910-001-002

> **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 Removal, TASK 20-40-12-000-802.

SUBTASK 44-21-11-420-003-002

(2) Install the seat electronics box [1].

(a) Put the seat electronics box [1] in position under the applicable 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 44-21-11-860-021-002

(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

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-11-850-001-002

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

SUBTASK 44-21-11-850-002-002

(3) On the FWD attendant control panel, select the PASSENGER SERVICES button.

(a) Make sure that the PASSENGER SERVICES button is on the left hand side of the FWD attendant control panel menu.

NOTE: IFE is only available on the FWD attendant control panel.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-11-850-003-002

(4) On the FWD attend control panel , select the IFE button.

(a) 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 44-21-11-850-004-002

(5) 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 44-21-11-710-008-002

(6) 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 system.

NOTE: Change the VOLUME LEVEL as necessary, using the '+' and '-' buttons under the CABIN VOLUME to a comfortable listing 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 passenger address system.

SUBTASK 44-21-11-210-001-002

(7) On the FWD attendant control panel, select the IFE/PED POWER and PED OUTLETS to ON.

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

SUBTASK 44-21-11-210-002-002

(8) Connect a personal electronic device to the RJM port in the passenger seat.

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

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OVERHEAD LCD MONITOR - REMOVAL/INSTALLATION

1. General

A. This procedure has two task:

(1) Removal of the Overhead LCD Monitor.

(2) Installation of the Overhead LCD Monitor.

LOM 437-439, 441

B. The Overhead LCD Monitor is also known as High Definition Overhead Monitor (HDOM).

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

C. The Overhead LCD Monitor is also known as Digital Overhead Monitor (DOM).

LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999

TASK 44-21-12-000-801

2. Overhead LCD Monitor - Removal

(Figure 401)

A. General

(1) This task is the removal procedure for the Overhead LCD monitor (referred to as the monitor).

(2) The monitor and Passenger Service Unit (PSU) overhead door are installed as one assembly and will be referred to as the PSU panel assembly.

(3) The monitors are installed under the overhead stowage bins.

(4) When you remove the monitor, do not supply electrical power to the video system.

B. Location Zones

Zone	Area
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. Overhead LCD Monitor Removal

SUBTASK 44-21-12-860-002

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464			
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L
LOM 437-439, 441, 458-460, 462-464, 466-999			
C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441, 458-460, 462-464, 466-999 (Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464			
D	5	C01452	VIDEO 1
LOM 466-999			
D	5	C01981	VIDEO 1
LOM 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464			
D	6	C01453	VIDEO 2
LOM 466-999			
D	6	C01980	VIDEO 2
LOM 427, 428, 437-439, 441, 445, 457-460, 462-464			
D	7	C01454	VIDEO 3
LOM 466-999			
D	7	C01983	VIDEO 3
LOM 427, 428, 437-439, 441, 445, 457-460, 462-464			
D	8	C01455	VIDEO 4
LOM 466-999			
D	8	C01982	VIDEO 4

LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999

These circuit breakers are inoperative and should remain open:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457			
C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442, 453, 454			
D	7	C01454	VIDEO 3 (INOP)
D	8	C01455	VIDEO 4 (INOP)

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

SUBTASK 44-21-12-020-001

WARNING

DO NOT REMOVE THE MONITOR WITHOUT AID. THE MONITOR IS HEAVY. INJURIES TO PERSONNEL, AND DAMAGE TO THE EQUIPMENT CAN OCCUR.

(2) Do these steps to remove the applicable PSU panel assembly [2]:

NOTE: The monitor and PSU overhead door are removed as one assembly.

(a) Release the latches on the inboard side of the PSU overhead door to get access to the PSU panel assembly [2].

NOTE: Put the locally manufactured tool into the access holes in the PSU overhead door.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

(b) Release one to two of the three lanyards [10] to gain access to the electrical connectors.

LOM 422, 425 POST SB 737-25-1858

(c) Release one inboard lanyard [5] to gain access to the electrical connector.

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 POST SB 737-25-1858

(d) Release one inboard lanyard [5] to gain access to the electrical connector.

LOM 466-999

(e) Release one inboard lanyard [5] to gain access to the electrical connector.

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

(f) Disconnect the electrical connector [1].

NOTE: Some configurations are installed with two to four electrical connectors.

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

(g) Release remaining lanyards [10] to gain full access to lower the PSU panel assembly [2].

LOM 422, 425 POST SB 737-25-1858

(h) Release remaining inboard lanyard [5] to gain full access to lower the PSU panel assembly [2].

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 POST SB 737-25-1858

(i) Release the lanyard [5] to lower the PSU panel assembly [2].

LOM 466-999

(j) Release the lanyard [5] to lower the PSU panel assembly [2].

LOM 422, 425 PRE SB 737-25-1858

(k) Release the lanyard [3] to lower the PSU panel assembly [2].

LOM 422, 425 POST SB 737-25-1858

(l) Release the outboard lanyards [6] from the spring-loaded pins.

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 POST SB 737-25-1858

(m) Release the outboard lanyards [6] from the spring-loaded pins.

LOM 466-999

(n) Release the outboard lanyards [6] from the spring-loaded pins.

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

(o) Push the two spring-loaded pins on the outboard side of the overhead frame to remove the PSU panel assembly [2].

NOTE: Use the locally manufactured tool to push the pins that release the PSU overhead door from the overhead frame.

(p) Remove the PSU panel assembly [2].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 PRE SB 737-25-1851

SUBTASK 44-21-12-020-003

WARNING DO NOT REMOVE THE MONITOR WITHOUT AID. THE MONITOR IS HEAVY. INJURIES TO PERSONNEL, AND DAMAGE TO THE EQUIPMENT CAN OCCUR.

(3) Do these steps to remove the applicable PSU panel assembly [2]:

(a) Locate the two pin holes on the inboard side of the retract module.

(b) Using a pin, press the internal latches on either side of the retract module.

(c) Allow the retract module to lower to the lanyard [10] position (approximately 3 in. (8 cm)).

(d) Remove the metal hook from the metal ring.

(e) Lower the retract module to the final lanyard position (approximately 10 in. (25 cm)). Allow the retract to swing down and hang on the outboard hinge.

(f) Disconnect the four electrical connectors [1].

(g) Disconnect the lanyard [10] clip from the inboard (bag bin) rail to release the hinge.

(h) Release the two outboard latches on the retract module from the outboard rail and remove the retract module

LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 SOME CONFIGURATIONS ARE INSTALLED WITH TWO OR FOUR CONNECTORS

U81681 S0000219083_V5

Overhead Video Monitor Installation
Figure 401/44-21-12-990-801 (Sheet 1 of 9)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PSU-MOUNTED VIDEO MONITOR
(EXAMPLE)

1 SOME CONFIGURATIONS ARE INSTALLED WITH TWO OR FOUR CONNECTORS

A

3019812 S0000791996_V1

Overhead Video Monitor Installation
Figure 401/44-21-12-990-801 (Sheet 2 of 9)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 SOME CONFIGURATIONS ARE INSTALLED WITH TWO OR FOUR CONNECTORS

2868615 S0000676565_V2

Overhead Video Monitor Installation
Figure 401/44-21-12-990-801 (Sheet 3 of 9)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT
(EXAMPLE)

PSU-MOUNTED VIDEO MONITOR
(EXAMPLE)

A

1 SOME CONFIGURATIONS ARE INSTALLED WITH TWO OR FOUR CONNECTORS

3019827 S0000792010_V1

Overhead Video Monitor Installation
Figure 401/44-21-12-990-801 (Sheet 4 of 9)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PSU-MOUNTED VIDEO MONITOR
(EXAMPLE)

A

3067668 S0000829229_V1

Overhead Video Monitor Installation
Figure 401/44-21-12-990-801 (Sheet 5 of 9)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

3019621 S0000792004_V1

Overhead Video Monitor Installation
Figure 401/44-21-12-990-801 (Sheet 6 of 9)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Overhead Video Monitor Installation
Figure 401/44-21-12-990-801 (Sheet 7 of 9)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

2097677 S0000443964_V2

Overhead Video Monitor Installation
Figure 401/44-21-12-990-801 (Sheet 8 of 9)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

**PASSENGER COMPARTMENT
(EXAMPLE)**

PARTIAL ENGAGEMENT

FULL ENGAGEMENT

**INBOARD LATCH ENGAGEMENT WITH PSU RAIL
(TYPICAL)**

B

2970275 S0000749094_V2

**Overhead Video Monitor Installation
Figure 401/44-21-12-990-801 (Sheet 9 of 9)**

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-12-400-801

3. Overhead LCD Monitor - Installation

(Figure 401)

A. General

(1) This task is the installation procedure for the Overhead LCD monitor (referred to as the monitor).

(2) The monitor and Passenger Service Unit (PSU) overhead door are installed as one assembly and will be referred to as the PSU panel assembly.

(3) The monitors are installed under the overhead stowage bins.

(4) When you install the monitor, do not supply electrical power to the video system.

B. References

Reference	Title
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)
44-21-00-800-813	Set Up dPAVES Configuration (P/B 201)
44-21-00-800-822	Digital Overhead Monitor (DOM) readdress (P/B 201)

C. Location Zones

Zone	Area
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

D. Overhead LCD Monitor Installation

SUBTASK 44-21-12-860-005

(1) Make sure that these circuit breakers are open and have safety tags:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464			
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L
LOM 437-439, 441, 458-460, 462-464, 466-999			
C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464			
D	5	C01452	VIDEO 1
LOM 466-999			
D	5	C01981	VIDEO 1

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 466-999 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464			
D	6	C01453	VIDEO 2
LOM 466-999			
D	6	C01980	VIDEO 2
LOM 427, 428, 437-439, 441, 445, 457-460, 462-464			
D	7	C01454	VIDEO 3
LOM 466-999			
D	7	C01983	VIDEO 3
LOM 427, 428, 437-439, 441, 445, 457-460, 462-464			
D	8	C01455	VIDEO 4
LOM 466-999			
D	8	C01982	VIDEO 4

LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999

These circuit breakers are inoperative and should remain open:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457			
C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442, 453, 454			
D	7	C01454	VIDEO 3 (INOP)
D	8	C01455	VIDEO 4 (INOP)

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

SUBTASK 44-21-12-420-001

(2) Do these steps to install the applicable PSU panel assembly [2]:

NOTE: The monitor and PSU overhead door are installed as one assembly.

(a) Put the PSU panel assembly [2] panel assembly in its correct position.

(b) Engage the two spring-loaded pins in the outboard side of the overhead frame to install the PSU panel assembly [2].

LOM 422, 425 POST SB 737-25-1858

(c) Connect the outboard lanyards [6] to the spring-loaded pins.

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 POST SB 737-25-1858

(d) Connect the outboard lanyards [6] to the spring-loaded pins.

LOM 466-999

(e) Connect the outboard lanyards [6] to the spring-loaded pins.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425 PRE SB 737-25-1858

(f) Connect the lanyard [3] to support the PSU panel assembly [2].

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

(g) Connect one to two of the three lanyards [10] to secure the PSU panel assembly [2].

LOM 422, 425 POST SB 737-25-1858

(h) Connect one of the two lanyards [5] to secure the PSU panel assembly [2].

LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 POST SB 737-25-1858

(i) Connect one of the two lanyards [5] to secure the PSU panel assembly [2].

LOM 466-999

(j) Connect one of the two lanyards [5] to secure the PSU panel assembly [2].

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

(k) Connect the electrical connectors [1] to the monitor receptacles.

NOTE: Some configurations are installed with up to four electrical connectors.

LOM 422, 425 PRE SB 737-25-1858

(l) Lift up the PSU panel and put the lanyard [3] in the shortened position.

1) Attach the lanyard hook to the small ring on the lanyard [3].

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

(m) Push the PSU overhead door back to its correct position.

NOTE: Make sure that the latches on the inboard side of the PSU door assembly lock before you release the PSU overhead door.

(n) To latch the Video Retract Panels to the inboard PSU rails follow these steps:

1) Make sure that the inboard edge of the video monitor clears the inboard edge of the stow-bin rail.

2) Make sure that the click sound of the cam-latch is heard.

3) Visually make sure that the inboard latches of the video panel fully engage the PSU rail. See FULL ENGAGEMENT in Figure 401 (Sheet 9).

a) If visual access to the video panel latches is blocked by an adjacent PSU, lower the PSU to the service position.

LOM 437-439, 441 PRE SB 737-25-1851

SUBTASK 44-21-12-420-004

(3) Do these steps to install the applicable PSU panel assembly [2]:

(a) Reconnect the two outboard latches on the retract module to the outboard rail.

(b) Ensure spring plungers protrude through rail holes.

(c) Reconnect the lanyard [10] clip to the inboard (bag bin) rail.

(d) Ensure inboard rail lanyard clip does not interfere with the inboard latches.

(e) Reconnect the four cables to the appropriate connectors.

(f) Pivot the retract module to the 3 in. (8 cm) position.

(g) Re-fasten the metal hook to the metal ring.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 PRE SB 737-25-1851 (Continued)

(h) Push up the retract monitor directly under the inboard latches and listen for an "audible click", from each latch to for positive engagement.

LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999

SUBTASK 44-21-12-860-003

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

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464			
C	8	C01406	PASS CABIN SIGNS FASTEN SEAT BELT R
C	9	C01405	PASS CABIN SIGNS FASTEN SEAT BELT L
LOM 437-439, 441, 458-460, 462-464, 466-999			
C	10	C01408	PASS CABIN SIGNS NO SMOKING RIGHT
C	11	C01407	PASS CABIN SIGNS NO SMOKING LEFT

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464			
D	5	C01452	VIDEO 1
LOM 466-999			
D	5	C01981	VIDEO 1
LOM 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464			
D	6	C01453	VIDEO 2
LOM 466-999			
D	6	C01980	VIDEO 2
LOM 427, 428, 437-439, 441, 445, 457-460, 462-464			
D	7	C01454	VIDEO 3
LOM 466-999			
D	7	C01983	VIDEO 3
LOM 427, 428, 437-439, 441, 445, 457-460, 462-464			
D	8	C01455	VIDEO 4
LOM 466-999			
D	8	C01982	VIDEO 4

LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999

These circuit breakers are inoperative and should remain open:

CAPT Electrical System Panel, P18-3

Row	Col	Number	Name
LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457			
C	10	C01408	PASS CABIN SIGNS NO SMOKING R (INOP)
C	11	C01407	PASS CABIN SIGNS NO SMOKING L (INOP)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457 (Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442, 453, 454			
D	7	C01454	VIDEO 3 (INOP)
D	8	C01455	VIDEO 4 (INOP)

LOM 437-439, 441

SUBTASK 44-21-12-860-013

(5) Initialize the necessary configuration file: Set Up dPAVES Configuration, TASK 44-21-00-800-813.

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

E. Prepare for the Installation Test

SUBTASK 44-21-12-860-009

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999

F. Installation Test

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

SUBTASK 44-21-12-740-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the Line Replaceable Unit (LRU)s are reporting.

SUBTASK 44-21-12-710-004

(2) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

LOM 466-999; LOM 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464 PRE SB 737-25-1858

SUBTASK 44-21-12-440-001

(3) If the PSU mounted monitor did not deploy or remained in stowed position, readdress the PSU mounted monitor: Digital Overhead Monitor (DOM) readdress, TASK 44-21-00-800-822.

LOM 437-439, 441

SUBTASK 44-21-12-720-001

(4) Do these steps to test the High Definition Overhead Monitor:

(a) Make sure that the IFE/PASS SEAT switch on the P5 overhead panel in the cockpit is set to ON.

NOTE: Wait 5 minutes after power up for the HDMS to initialize.

NOTE: Whenever an HDOM is installed, the desired configuration file must be initialized; refer to manufacturers instruction manual for details.

(b) Select Passenger Services from the attendant control panel, and press the Entertainment ON button to power on the In-Flight Entertainment (IFE) system.

(c) Select Manual Mode on the ECP.

(d) From the Entertainment screen, select the applicable zones as the monitor source.

(e) Select Movies as a video source.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 437-439, 441 (Continued)

(f) Select a genre and video title from the list of available movies.

(g) Select Deployed to deploy monitors.

1) Make sure that the monitors are deployed and on.

(h) Select Play to play the video.

1) Make sure that the video program is playing on the monitors.

(i) Select Stowed to retract the monitors, and press stop to stop the video program.

1) Make sure that the monitors are retracted and off.

LOM 422, 425, 427, 428, 433, 434, 437-445, 453, 454, 457-460, 462-464, 466-999

G. Put the Airplane Back to Its Usual Condition

LOM 437-439, 441

SUBTASK 44-21-12-902-001

(1) Put the airplane back in its initial condition if necessary.

LOM 422, 425, 427, 428, 433, 434, 440, 442-445, 453, 454, 457-460, 462-464, 466-999

SUBTASK 44-21-12-860-010

(2) If it is not necessary to continue to operate the system, do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

VIDEO DISTRIBUTION UNIT - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) Removal of video distribution unit.

(2) Installation of the video distribution unit.

TASK 44-21-13-000-801

2. Video Distribution Unit Removal

A. General

(1) This task is the removal procedure for the video distribution unit (VDU).

(2) The VDUs are installed above the left sculptured ceiling panels.

(3) When you remove the VDU, do not supply electrical power to the video system.

B. References

Reference	Title
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)

C. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

D. Prepare for the Removal

SUBTASK 44-21-13-860-001

(1) Do these steps to prepare the VDU for the removal:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
D	5	C01452	VIDEO 1
LOM 416			
D	6	C01453	VIDEO 2

LOM 416, 422, 425

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416			
C	5	C01450	ENT VID CONT CENTER DC (INOP)
C	7	C01451	ENT VID CONT CENTER AC (INOP)
D	7	C01454	VIDEO 3 (INOP)
D	8	C01455	VIDEO 4 (INOP)

LOM 416, 422, 425

(b) From the table find the location of the applicable VDU between stringers 4L and 6L:

NOTE: The video distribution units (VDUs) are above the ceiling. The VDUs are in groups. A VDU group has one, two, three, or four VDUs.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Table 401/44-21-13-993-801

VDU LOCATION	
GROUP #	STATION
1	450
2	500
3	695
4	727

(c) For the applicable VDU, do this task :Ceiling Panel - Removal, TASK 25-21-45-000-801

E. Video Distribution Unit Removal

SUBTASK 44-21-13-020-001

(1) Do these steps to remove the VDU from the top bracket:

(a) Disconnect the applicable electrical connector [2] to identify which VDU receptacles.

NOTE: Attach a label to each electrical connector to identify which VDU receptacle it connects to. This helps when you install the VDU.

Remove the four screws [3] and washers [4] that attach the applicable VDU [1] to the top bracket.

(b) Remove the VDU [1] from the top bracket.

(c) Remove the termination plug from the VDU receptacle if a plug is installed.

NOTE: Attach a label termination plug to identify the VDU receptacle it connects to. This helps you when you install the VDU.

SUBTASK 44-21-13-020-002

(2) Do these steps to remove the VDU [1] from the bottom bracket:

(a) Disconnect the pin [5] and cotter pin [6] that attach the connecting rod [7] to the stowage bin.

(b) Remove the two screws [8] and washers [9] that attach the bottom bracket to the support bracket.

(c) Remove the VDU [1] and bottom bracket from its position.

(d) Disconnect the applicable electrical connectors [2] from the VDU receptacles.

NOTE: Attach a label to each electrical connector to identify which VDU receptacle it connects to. This helps when you install the VDU

(e) Remove the four screws [3] and washers [4] that attach the applicable VDU [1] to the bottom bracket.

(f) Remove the VDU [1] from the bottom bracket.

(g) Remove the termination plug from the VDU receptacle if a plug is installed.

NOTE: Attach a label to the termination plug to identify the VDU receptacle it connects to. This helps when you install the VDU.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

VIDEO DISTRIBUTION UNIT (VDU) TRAY LOCATIONS (EXAMPLE)

VIDEO DISTRIBUTION UNIT (VDU) TRAY (EXAMPLE, 4 LOCATIONS)

A

1 BOTTOM VDUs REMOVAL ONLY (IF INSTALLED)

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Video Distribution Unit (VDU) Installation
Figure 401/44-21-13-990-802 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

2 ONE OF THE VDUs HAS A TERMINATION PLUG (REFER TO VDU TABLE FOR THE AFT VDU).

3 CONNECTION FROM TOP VDU TO AIRPLANE WIRE BUNDLE USES PLASTIC TIE STRAP (BACS38K2) TO SECURE ELECTRICAL CONNECTIONS.

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Video Distribution Unit (VDU) Installation
Figure 401/44-21-13-990-802 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-13-400-801

3. Video Distribution Unit Installation

Figure 401

A. General

(1) This task is the installation procedure for the video distribution unit (VDU).

B. References

Reference	Title
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

D. Prepare for installation:

SUBTASK 44-21-13-860-005

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
D	5	C01452	VIDEO 1

LOM 416

D	6	C01453	VIDEO 2

LOM 416, 422, 425

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416			
C	5	C01450	ENT VID CONT CENTER DC (INOP)
C	7	C01451	ENT VID CONT CENTER AC (INOP)
D	7	C01454	VIDEO 3 (INOP)
D	8	C01455	VIDEO 4 (INOP)

LOM 416, 422, 425

E. Video Distribution Unit Installation

SUBTASK 44-21-13-420-001

(1) Do these steps to install a VDU [1] on the top bracket:

(a) Install the termination plug on the applicable VDU receptacle

(b) Put the VDU [1] in its position on the top bracket.

(c) Install the four screws [3] and washers [4] that attach the VDU [1] to the top bracket.

(d) Connect the applicable electrical connectors [2] to the VDU receptacles.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-13-420-002

(2) Do these steps to install a VDU [1] on the bottom bracket:

(a) Install the termination plug on the applicable VDU receptacle.

(b) Put the VDU [1] in its position on the bottom bracket.

(c) Install the four screws [3] and washers [4] that attach the VDU [1] to the bottom bracket.

(d) Connect the applicable electrical connectors [2] to the VDU receptacles.

(e) Put the VDU [1] and bottom bracket into its correct position.

NOTE: The bottom of the bottom bracket fits into two slots in the bottom support bracket.

(f) Install the two screws [8] and washers [9] that attach the bottom bracket to the support bracket.

(g) Connect the pin [5] and cotter pin [6] that attach the connecting rod [7] to the stowage bin.

SUBTASK 44-21-13-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
D	5	C01452	VIDEO 1
LOM 416			
D	6	C01453	VIDEO 2
LOM 416, 422, 425			

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416			
C	5	C01450	ENT VID CONT CENTER DC (INOP)
C	7	C01451	ENT VID CONT CENTER AC (INOP)
D	7	C01454	VIDEO 3 (INOP)
D	8	C01455	VIDEO 4 (INOP)

LOM 416, 422, 425

F. Prepare for the Installation Test

SUBTASK 44-21-13-860-006

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

G. Video Distribution Unit Installation Test

SUBTASK 44-21-13-740-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-13-740-002

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-13-710-001

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

H. Put the Airplane Back to its Usual Condition

SUBTASK 44-21-13-410-001

(1) For the applicable VDU, do this task: Ceiling Panel - Installation, TASK 25-21-45-400-801.

SUBTASK 44-21-13-860-007

(2) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

IN-SEAT POWER SUPPLY REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Removal of an In-Seat Power Supply (ISPS).

(2) Installation of an ISPS.

TASK 44-21-14-000-801

2. In-Seat Power Supply Removal

A. General

(1) The task is the removal procedure for the In-Seat Power Supply (ISPS).

(2) The ISPS's are installed below the passenger seat.

(3) When you remove the ISPS, do not supply electrical power to the system.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the Removal

SUBTASK 44-21-14-860-001

(1) Do these steps to prepare the ISPS for removal:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454, 466-999			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-14-020-001

(2) Do these steps to remove the ISPS:

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(a) Get access to the ISPS [1] below the passenger seat.

(b) Remove the electrical connectors.

(c) Tag the electrical connectors for identification.

(d) Loosen the quarter-turn fasteners that hold the ISPS to the mounting assembly.

(e) Remove the nuts, washers, and spacers (if applicable).

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(f) Put protective covers on the electrical connectors.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

In-Seat Power Supply Installation
Figure 401/44-21-14-990-801 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

IN-SEAT POWER SUPPLY
(TOP VIEW)

B

A-A

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In-Seat Power Supply Installation
Figure 401/44-21-14-990-801 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-14-400-801

3. In-Seat Power Supply Installation

Figure 401

A. General

(1) This task is the installation procedure for the In-Seat Power Supply (ISPS)

B. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-16-700-801	PC Power System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. In-Seat Power Supply Installation

SUBTASK 44-21-14-860-003

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454, 466-999			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-14-400-001

(2) Do these steps to install the ISPS:

(a) Remove the electrical connector covers.

(b) Examine the electrical connectors for bent or broken pins, dirt and damage.

(c) Put the spacers in place if applicable.

(d) Put the ISPS [1] on its mounting surface below the seat.

(e) Put the washers and nuts in place on the bracket if applicable.

(f) Install the quarter-turn fasteners.

(g) Turn and tighten the quarter-turn fasteners.

(h) Install the electrical connectors.

(i) Make sure that the outlet unit connectors are on the correct jacks.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-14-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442, 453, 454, 466-999			
A	8	C01644	SEAT POWER FWD

E. In-Seat Power Supply Installation Test

SUBTASK 44-21-14-700-001

(1) Do theses steps to do a test of the PC Power System:

(a) Put the IFE switch located on(P5-13) to the ON position.

(b) Do this task: PC Power System - Operational Test, TASK 44-21-16-700-801

1) Do a check of the seat group that has the new ISPS.

2) Do a check of all groups aft in the same seat column.

F. Put the Airplane Back in Its Initial Condition

SUBTASK 44-21-14-620-001

(1) Do these steps to put the Airplane back in its initial condition

(a) Remove electrical power if necessary: Remove Electrical Power, TASK 24-22-00-860-812

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

OUTLET UNIT - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Removal of the Outlet Unit

(2) Installation of the Outlet Unit

TASK 44-21-15-000-801

2. Outlet Unit Removal

A. General

(1) This task is the removal procedure for the Outlet Unit.

(2) The Outlet Units are located in the passenger armrest or front of passenger seat (as installed).

(3) When you remove the Outlet Unit, do not supply electrical power to the system.

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Prepare for the removal

SUBTASK 44-21-15-865-001

(1) Do these steps to prepare the outlet unit for removal:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999

SUBTASK 44-21-15-020-001

(2) Do these steps to remove the Outlet Unit [1]:

(a) Get access to the outlet unit electrical connector [3] under the passenger seat.

(b) Disconnect the electrical connector [3].

(c) Remove the screws [2] from the outlet unit front panel.

(d) Remove the screws from the outlet unit backing plate (if installed).

(e) Remove the outlet unit [1] assembly.

NOTE: For outlets installed in Business Class seats, make sure the electrical connector does not fall back into the seat panel.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER COMPARTMENT (EXAMPLE)

OUTLET (EXAMPLE)

A

1375919 S0000249931_V3

Outlet Unit Installation
Figure 401/44-21-15-990-801 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

BUSINESS CLASS
(EXAMPLE)

ECONOMY CLASS
(EXAMPLE)

1872379 S0000335922_V2

Outlet Unit Installation
Figure 401/44-21-15-990-801 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-15-400-801

3. Outlet Unit Installation

Figure 401

A. References

Reference	Title
24-22-00-860-812	Remove Electrical Power (P/B 201)

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Installation Procedure

SUBTASK 44-21-15-865-002

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999

SUBTASK 44-21-15-420-001

(2) Install the Outlet Unit (OU):

(a) Push the Outlet Unit [1] assembly through the seat armrest or seat panel opening (as applicable).

(b) Install the screws in the Outlet Unit back plate (if applicable).

(c) Install the screws [2] for the Outlet Unit front panel.

(d) Connect the Outlet Unit electrical connector [3].

SUBTASK 44-21-15-865-003

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999

D. Installation Test

SUBTASK 44-21-15-860-001

(1) Make sure power is applied to the PC power system.

SUBTASK 44-21-15-710-001

(2) At the outlet unit, do this step:

(a) Make sure that the LED on the applicable outlet unit shows green.

E. Put the Airplane Back in Its Initial Condition

SUBTASK 44-21-15-860-002

(1) Do these steps to put the Airplane back in its initial condition:

(a) Remove electrical power if necessary: Remove Electrical Power, TASK 24-22-00-860-812.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1. General

A. This section contains these tasks for the PC Power System.

(1) The Operational Test

(2) The System Test

TASK 44-21-16-700-801

2. PC Power System - Operational Test

A. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

B. Test Preparation

SUBTASK 44-21-16-860-006

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
LOM 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999			

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999

(2) Make sure that the IFE/PASS SEATS Switch (P5-13) located in the flight compartment is in the ON position.

SUBTASK 44-21-16-860-001

(3) Set the IFE/PC POWER switch on P13 attendant panel to the ON position.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-16-700-001

(4) Look at the Seat Outlet Unit (OU) LED indicators immediately after you apply power.

(a) Make sure that all the Outlet Unit (OU) LEDs show green. This shows that there were no faults during the ISPS/SPM BIT test.

SUBTASK 44-21-16-710-001

(5) Connect an electronic device to the AC Outlet Unit (ACOU) and switch it ON.

(a) Make sure that the ACOU LED is illuminated green.

(b) Make sure that the electronic device is powered by the ACOU.

(c) Make sure that the related In-use Light on the ACOU illuminates.

SUBTASK 44-21-16-860-002

(6) Set the IFE/PC POWER switch on P13 attendant panel to the OFF position.

(a) Make sure the Outlet Unit (OU) LEDs are off.

END OF TASK

TASK 44-21-16-700-802

3. PC Power System - System Test

A. General

(1) The system test includes these test:

(a) The Operational test

(b) The Master Control Unit (MCU) LED test.

B. References

Reference	Title
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)

C. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

D. Do these steps to prepare for the Test

SUBTASK 44-21-16-860-003

(1) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
B	9	C01945	IFE AC
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

LOM 416, 422, 425, 433, 434, 440, 442-445, 453, 454, 458-461, 464, 466-999

SUBTASK 44-21-16-860-004

(2) Make sure the IFE/PC power switch in the flight compartment is set to the ON position.

SUBTASK 44-21-16-860-005

(3) Make sure that the IFE/PC POWER/OUTLETS Switch on P13 attendant panel is set to the ON position.

E. Operational Test

SUBTASK 44-21-16-700-002

(1) Do the task:PC Power System - Operational Test, TASK 44-21-16-700-801

SUBTASK 44-21-16-700-003

(2) MCU LED Test

SUBTASK 44-21-16-010-001

(3) Open the ceiling panel to get access to the Master Control Unit.

(a) Do the task: Ceiling Panel - Removal, TASK 25-21-45-000-801 or Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001

SUBTASK 44-21-16-700-004

(4) Apply power to the PC power system and look at the status LED on the MCU.

NOTE: The MCU power up BIT test starts when you apply power. The test needs approximately 15 seconds to complete. Give sufficient time for the BIT test to complete.

(a) Make sure that all the LED indicators show green. This shows that there were no faults during the MCU power up BIT test.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-16-940-001

(5) Close the ceiling panel.

(a) Do the task: Ceiling Panel - Installation, TASK 25-21-45-400-801 or Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MCU CONFIGURATION MODULE REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Removal of the configuration module.

(2) Installation of the configuration module.

B. The configuration module is installed on the J7 connector of the master control unit.

C. You must remove the ceiling panel to get access to the master control unit.

TASK 44-21-18-000-801

2. Configuration Module Removal

(Figure 401)

A. General

(1) This task is the removal procedure for the configuration module for Master Control Unit (MCU).

(2) The MCUs are located in the overhead bin above the aircraft ceiling panels.

(3) When you remove the MCUs or the configuration module, do not supply electrical power to the system.

B. References

Reference	Title
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage
232	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

D. Prepare for Removal

SUBTASK 44-21-18-865-001

(1) Do these steps to prepare the configuration module for removal:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999 (Continued)

(Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 446, 447, 455, 456			
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

SUBTASK 44-21-18-010-001

(2) To get access to the master control unit, do this task: Ceiling Panel - Removal, TASK 25-21-45-000-801 or Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.

SUBTASK 44-21-18-020-001

(3) Do these steps to remove the configuration module [2]:

(a) Remove the captive fasteners that attach the configuration module [2] to the master control unit [1], connector J7.

(b) Remove the configuration module [2].

(c) Put protective covers on the electrical connectors.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Configuration Module Installation
Figure 401/44-21-18-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-18-400-801

3. Configuration Module Installation

(Figure 401)

A. General

(1) This task is the installation procedure for the configuration module for Master Control Unit (MCU).

B. References

Reference	Title
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
44-21-16-700-802	PC Power System - System Test (P/B 501)

C. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
2	Configuration module	44-21-18-01-005	LOM 422, 425, 433, 434, 440, 442, 453, 454
		44-21-18-02-005	LOM 422, 425, 433, 434, 440, 442, 453, 454
		44-21-18-03-100	LOM 443, 444, 446, 447, 455, 456, 458-460, 464, 466-999
		44-21-18-04-100	LOM 416, 443, 444, 446, 447, 455, 456

D. Location Zones

Zone	Area
232	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Right
241	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Left

E. Prepare for the Installation

SUBTASK 44-21-18-860-002

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999 (Continued)

(Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999			

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 446, 447, 455, 456			
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

F. Configuration Module Installation

SUBTASK 44-21-18-420-001

(1) Do these steps to install the configuration module [2]:

(a) Remove the protective covers from the electrical connectors.

(b) Examine the electrical connectors for bent or broken pins, dirt, and damage.

(c) Connect the configuration module [2] to connector J7 of the master control unit [1].

1) Turn the captive fasteners to attach the configuration module [2] to the master control unit [1].

NOTE: No tools are required to operate the fasteners.

SUBTASK 44-21-18-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 416, 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 446, 447, 455, 456			
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 416, 422, 425, 433, 434, 440, 442-444, 446, 447, 453-456, 458-460, 464, 466-999

SUBTASK 44-21-18-410-001

(3) Do this task: Ceiling Panel - Installation, TASK 25-21-45-400-801 or Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.

LOM 416, 422, 425, 433, 434, 440, 442-444, 453, 454, 458-460, 464, 466-999

G. Installation Test

SUBTASK 44-21-18-700-001

(1) Do a test of the PC Power System, do this task: PC Power System - System Test, TASK 44-21-16-700-802.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

VIDEO REPRODUCER - MAINTENANCE PRACTICES

1. General

A. This procedure contains:

(1) A task to download media to the Video Reproducer flash memory

TASK 44-21-19-470-801

2. Video Reproducer Media Download

A. General

(1) This task provides instructions on how to download media to the video reproducer (VR) flash memory.

NOTE: This procedure requires 22 minutes to download a 2 hour DVD.

When you download a DVD disc it will erase the previous data that was downloaded into flash memory.

(2) This task requires a media source (DVD) with MPEG data.

(3) The VR is located in the video control center (VCC).

B. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
232	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Right

C. Procedure

SUBTASK 44-21-19-470-001

(1) Do these steps to download media to the VR:

(a) Put the IFE Switch located on P13 to the ON position.

1) Make sure the VR power is on.

(b) Push the EJECT button to eject any media source in the VR.

1) Carefully remove the media source.

NOTE: If the media source is the shipping disc, remove the shipping disc and keep it in a safe place.

(c) Carefully put the new media source in the VR.

1) Make sure the DISC IN LED comes on.

NOTE: The DISC IN LED will come on when the disc is loading.

(d) Push the MENU (SHIFT) button and the EJECT (DOWNLOAD) button at the same time.

1) Make sure the LED shows “rdy”.

(e) Push and hold the MENU (SHIFT) button and the EJECT (DOWNLOAD) button for at least 2 seconds.

1) Make sure the VR begins downloading the media.

2) The LED shows the remaining time (in minutes) to complete the download.

(f) Make sure the LED shows “END”.

1) This shows the download is complete.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

2) Do not eject the media source from the VR.

NOTE: It is recommended to keep a DVD disc in the VR at all times. If the media disc needs to removed, put the shipping disc in the VR.

(g) Push the power button on the VR to the OFF position.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

VIDEO REPRODUCER - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) Removal of the Video Reproducer.

(2) Installation of the Video Reproducer.

TASK 44-21-19-000-801

2. Video Reproducer Removal

A. General

(1) This task is the removal procedure for the video reproducer.

(a) When you remove the video reproducer, do not supply electrical power to the video system.

(2) The video reproducer(s) is/are installed in the video control center.

B. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

C. Video Reproducer Removal

SUBTASK 44-21-19-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

SUBTASK 44-21-19-020-001

(2) Do these steps to remove the video reproducer [1]:

(a) Get access to the video reproducer in the video control center.

(b) Loosen the two captive screws [2] on the bottom of the video reproducer front panel [1].

(c) Carefully remove the video reproducer [1] from the tray.

(d) Install dust caps on the video reproducer electrical connector.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D66707 S0000162906_V3

Video Reproducer (VR) Installation
Figure 401/44-21-19-990-801 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Video Reproducer (VR) Installation
Figure 401/44-21-19-990-801 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-19-400-801

3. Video Reproducer Installation

Figure 401

A. General

(1) This task is the installation procedure for the video reproducer.

B. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

C. Video Reproducer Installation

SUBTASK 44-21-19-860-006

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

SUBTASK 44-21-19-420-001

(2) Do these task to install the video reproducer [1].

(a) Remove the dust caps from the video reproducer electrical connector.

> **CAUTION** MAKE SURE THAT THE ELECTRICAL PINS ON THE VR AND THE TRAY CONNECTOR ARE NOT BENT OR DAMAGED. IF YOU INSTALL THE VR WITH DAMAGED PINS, DAMAGE TO THE VR, THE TRAY CONNECTOR, OR THE SYSTEM COMPONENTS CAN OCCUR.

(b) Make sure the electrical pins of the video reproducer are not bent or damaged.

(c) Carefully start to install the video reproducer into the tray and engage the electrical connector.

> **CAUTION** PUSH THE VR LIGHTLY INTO THE TRAY. PUSH ONLY ON THE LOWER CORNERS OF THE VR TO ENGAGE THE ELECTRICAL CONNECTOR. IF YOU USE TOO MUCH FORCE, YOU WILL CAUSE DAMAGE TO THE ELECTRICAL CONNECTORS.

(d) Continue to move the video reproducer into the tray and engage the electrical connector.

(e) Tighten the two captive screws on the bottom of the video reproducer front panel.

SUBTASK 44-21-19-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL

D. Video Reproducer Installation Test

SUBTASK 44-21-19-700-001

(1) Do this test of the Video Reproducer:

(a) Push the PWR button on the VR.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1) Make sure its light comes on.

(b) Put a media source into the video reproducer.

(c) Touch the CP screen to make sure the it is active.

(d) Select the VIDEO button from the MAIN MENU at the CP.

1) Make sure that the video screen is shown.

(e) Select the START MOVIE button.

(f) Select any seat group and make sure the monitor is active.

(g) Select MAIN MENU and use the Handset to select broadcast video.

1) Make sure the broadcast video screen is shown with the channel number.

(h) Select channel 1.

1) Make sure video is shown on the monitor and corresponding audio is heard in the headset.

2) Make sure that the channel shown on the monitor is the same channel shown on the handset display.

(i) Use the Handset CH Up/Down button to change the channels while the movie is playing.

1) Make sure the CH changes on the Handset display and the seat monitor.

(j) Push the MODE button on the handset.

1) Make sure that the MAIN MENU screen is shown on the seat monitor.

(k) Select STOP MOVIE from the VIDEO screen at the CP.

1) Make sure that the BROADCAST VIDEO Confirmation screen is shown.

(l) Select the YES button.

1) Make sure that the button changes to START MOVIE.

2) Make sure that the movie is no longer shown on the seat monitor.

(m) Remove the media source from the video reproducer.

E. Put the Airplane Back to Its initial Condition

SUBTASK 44-21-19-942-001

(1) Do these steps:

(a) Close and secure the VCC door.

SUBTASK 44-21-19-200-001

(2) Check that all personal tools are removed from the installation area.

SUBTASK 44-21-19-200-002

(3) Make sure that all electrical connectors on the Video Reproducer are installed and secured.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MEDIA ENCODER - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Media Encoder Removal.

(2) Media Encoder Installation.

TASK 44-21-20-000-801

2. Media Encoder Removal

A. General

(1) This task is the removal procedure for the Media Encoder.

(2) The media encoder is/are installed in the video control center.

(3) When you remove the media encoder do not supply electrical power to the system.

B. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
232	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Right

C. Media Encoder Removal

SUBTASK 44-21-20-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01646	IVS HEAD-END

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
C	5	C01450	ENT VID CONT CENTER DC (INOP)
C	7	C01451	ENT VID CONT CENTER AC (INOP)

SUBTASK 44-21-20-020-001

(2) Do these steps to remove the media encoder [1]:

(a) Get access to the media encoder [1] in the video control center.

(b) Remove the four fasteners.

(c) Remove the media encoder [1].

(d) Put protective covers on the electrical connectors.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Media Encoder Unit Installation
Figure 401/44-21-20-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-20-400-801

3. Media Encoder Installation

Figure 401

A. General

(1) This task is the installation procedure for the Media Encoder.

B. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left
232	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Right

C. Media Encoder Installation

SUBTASK 44-21-20-860-002

(1) Do these steps to prepare the Media Encoder for installation:

(a) Make sure the IFE/PC POWER Switch on P13 attendant panel is set to the OFF position.

(b) Make sure that this circuit breaker is open and has safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01646	IVS HEAD-END

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
C	5	C01450	ENT VID CONT CENTER DC (INOP)
C	7	C01451	ENT VID CONT CENTER AC (INOP)

SUBTASK 44-21-20-400-001

(2) Do these steps to install the Media Encoder:

(a) Remove the protective cover from the electrical connectors.

(b) Examine electrical connectors for bent or broken pins, dirt, and damage.

(c) Position the Media Encoder [1] in its location so that the connectors match the cables.

(d) Tighten the fasteners [3].

(e) Connect the cables to the Media Encoder [1].

SUBTASK 44-21-20-860-003

(3) Do these steps to make sure power to the Media Encoder is ON:

(a) Make sure that this circuit breaker is closed:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01646	IVS HEAD-END

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
C	5	C01450	ENT VID CONT CENTER DC (INOP)
C	7	C01451	ENT VID CONT CENTER AC (INOP)

(b) Make sure the IFE/PC POWER Switch on P13 attendant panel is set to the ON position.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D. Media Encoder Installation Test

SUBTASK 44-21-20-700-001

(1) Do this test of the Media Encoder:

(a) Push the PWR button on the VR and make sure its light comes on.

(b) Put a media source into the VR.

(c) Touch the CP screen to make sure that it is active.

(d) From the MAIN MENU screen at the CP, select VIDEO button and make sure the VIDEO screen is shown.

(e) Select the START MOVIE button.

(f) Select any seat group and touch the seat monitor screen to make sure it is active.

(g) Select MAIN MENU and use the handset to select broadcast video.

1) Make sure the broadcast video screen is shown with the channel number.

(h) Select channel 1.

1) Make sure video is shown on the monitor and corresponding audio is heard in the headset.

(i) Select STOP MOVIE from the VIDEO screen at the CP.

E. Put the Airplane Back in Its Initial Condition

SUBTASK 44-21-20-860-005

(1) Do this step to put the airplane back in its initial condition:

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

AUDIO MULTIPLEXER - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) A removal of the audio multiplexer.

(2) An installation of the audio multiplexer.

TASK 44-21-21-000-801

2. Audio Multiplexer Removal

(Figure 401)

A. General

(1) This task is the removal procedure for the audio multiplexer.

(2) The audio multiplexer is installed on the E4-2 shelf in the main equipment center.

(a) When you remove the audio multiplexer, do not supply the electrical power to the audio entertainment system.

LOM 427, 428, 445, 457-460, 462, 463

(b) A lever that is part of the handle holds the audio multiplexer in the E4 rack mount.

LOM 427, 428, 437, 438, 445, 457-460, 462, 463

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Removal Procedure

SUBTASK 44-21-21-860-001

(1) Make sure that this circuit breaker is open and has safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
C	8	C01456	ENTERTAINMENT AUDIO

SUBTASK 44-21-21-010-001

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-21-020-001

(3) To remove the audio Audio Multiplexer [1], do this task: E/E Box Removal, TASK 20-10-07-000-801.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Audio Multiplexer Installation
Figure 401/44-21-21-990-801 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Audio Multiplexer Installation
Figure 401/44-21-21-990-801 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-21-400-801

3. Audio Multiplexer Installation

Figure 401

A. General

(1) This task is the installation procedure for the audio multiplexer.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)
44-21-00-800-819	dPAVES Content Data and Software Loading Procedures (P/B 201)
44-21-22-400-805	Audio Multiplexer Memory Update (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Installation

SUBTASK 44-21-21-860-004

(1) Make sure that this circuit breaker is open and has safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
C	8	C01456	ENTERTAINMENT AUDIO

SUBTASK 44-21-21-860-005

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

F. Installation Procedure

SUBTASK 44-21-21-420-001

(1) To install the Audio Multiplexer [1], do this task: E/E Box Installation, TASK 20-10-07-400-801.

SUBTASK 44-21-21-010-002

(2) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-21-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
C	8	C01456	ENTERTAINMENT AUDIO

LOM 427, 428, 445, 457-460, 462, 463

G. Audio Multiplexer Memory Update

NOTE: Channel assignment and seat layout data is stored in both the audio multiplexer and the BITE panel. If you replace the audio multiplexer, you must transfer the data from the BITE panel to the new audio multiplexer.

SUBTASK 44-21-21-400-001

(1) Do this task: Audio Multiplexer Memory Update, TASK 44-21-22-400-805.

LOM 437, 438

H. Audio Multiplexer Post-Installation Test

SUBTASK 44-21-21-720-002

(1) Do these steps to test the Audio Multiplexer:

(a) Make sure that the IFE/PASS SEAT switch on the P5 overhead panel in the cockpit is set to ON.

(b) Select Passenger Services from the attendant control panel, and press the Entertainment ON button to power on the IFE system.

(c) Load the system configuration file: dPAVES Content Data and Software Loading Procedures, TASK 44-21-00-800-819.

(d) Select Manual Mode on the ECP.

(e) From the Entertainment screen, select the applicable zones as the monitor source.

(f) Select Movies as a video source.

(g) Select a genre and video title from the list of available movies.

(h) Select Deployed to deploy monitors.

1) Make sure that the monitors are deployed and on.

(i) Select Play to play the video.

1) Make sure that the video program is playing on the monitors.

2) Select a seat in each zone throughout the cabin to verify that video/audio is acceptable.

(j) Select Stowed to retract the monitors, and press stop to stop the video program.

1) Make sure that the monitors are retracted and off.

2) Make sure that the audio is not heard at the seats.

LOM 427, 428, 445, 457-460, 462, 463

I. Audio Multiplexer Post-Installation Test

SUBTASK 44-21-21-710-001

(1) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

LOM 427, 428, 437, 438, 445, 457-460, 462, 463

ECCN 9E991 BOEING PROPRIETARY - See title page for details

J. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-21-720-001

(1) Do these steps at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-21-860-006

(2) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

AUDIO BITE PANEL - MAINTENANCE PRACTICES

1. General

A. This procedure has three tasks:

(1) An update of the audio multiplexer memory.

(2) An update of the BITE panel memory.

(3) A BITE test of the passenger entertainment system.

B. Both the BITE panel and the multiplexer contain an EEPROM (electrically erasable and programmable read only memory), which stores cabin zoning and system setting data required for proper system operation. The multiplexer's EEPROM data is used for normal system operation, while the BITE panel's data is used as a backup copy.

C. The first two tasks are used to transfer data from one component to the new component any time a new component is installed.

LOM 427, 428, 445, 457-460

D. The BITE panel is located above right aft entry door.

LOM 427, 428, 445, 457-460, 462, 463

TASK 44-21-22-400-805

2. Audio Multiplexer Memory Update

A. General

(1) This procedure transfers the EEPROM data of the BITE panel to the EEPROM in the audio multiplexer.

(2) These steps overwrite any contents of the audio multiplexer's existing memory with the contents of the BITE panel memory, and cannot be reversed.

B. Location Zones

Zone	Area
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

C. Procedure

SUBTASK 44-21-22-470-004

(1) Do these steps to update the audio multiplexer memory:

(a) Push the ENTERTAINMENT IFE button to the on position.

(b) Push and hold the INITIAL SET button on the BITE panel.

(c) Push the CL button.

(d) Release the INITIAL SET button.

(e) Make sure you see DATA EEPROM > MM PASS CODE PLEASE on the BITE panel display.

(f) Push this sequence of keys to enter the PASS CODE: '8', '1', '3', '1'.

(g) Push the MODE SELECT button.

1) Make sure you see XXXXXXXX SND/SEL EXIT/ENT on the BITE panel display.

NOTE: XXXXXXXX is the configuration number assigned when the airplane data was entered into the BITE panel.

(h) Push the MODE SELECT button.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1) Make sure you see SENDING CNF DATA PLEASE WAIT L0 on the BITE panel display.

NOTE: During the transfer, L0 will change to L1, L2, L3, and L4. When the BITE panel finishes the transfer, it will return to normal operating mode.

(i) Do this task: Passenger Entertainment System BITE Test, TASK 44-21-22-700-802.

——— END OF TASK ———

TASK 44-21-22-400-806

3. BITE Panel Memory Update

A. General

(1) This task transfers the EEPROM data of the audio multiplexer to the EEPROM in the BITE panel.

(2) These steps overwrite any contents of the BITE panel's existing memory with the contents of the multiplexer's memory. It cannot be reversed.

B. Location Zones

Zone	Area
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

C. Procedure

SUBTASK 44-21-22-470-005

(1) Do these steps to update the BITE Panel Memory:

(a) Set the ENTERTAINMENT IFE switch on the forward attendant's panel to the on position.

(b) Push and hold the INITIAL SET button on the BITE panel.

(c) Push the RV button.

(d) Release the INITIAL SET button.

1) Make sure you see DATA MM > EEPROM PASS CODE PLEASE on the BITE display.

(e) Push this sequence of buttons to enter the PASS CODE: '8', '1', '3', '1'.

(f) Push the MODE SELECT button.

1) Make sure you see RECEIVE SURE? RCV/SEL EXIT/ENT on the BITE display.

(g) Push the MODE SELECT button.

1) Make sure you see SENDING CNF DATA PLEASE WAIT L0 on the BITE display.

NOTE: During the transfer, L0 will change to L1, L2, L3, and L4. When the BITE panel finishes the transfer, it will return to normal operating mode.

(h) Do this task: do this task: Passenger Entertainment System BITE Test, TASK 44-21-22-700-802.

——— END OF TASK ———

TASK 44-21-22-700-802

4. Passenger Entertainment System BITE Test

A. Location Zones

Zone	Area
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

ECCN 9E991 BOEING PROPRIETARY - See title page for details

B. Procedure

SUBTASK 44-21-22-740-003

(1) Do these steps to do a BITE test of the passenger entertainment system:

(a) Push the ENTERTAINMENT IFE button to the on position.

(b) Push and hold the BITE button on the BITE panel.

(c) Push the MODE SELECT button.

(d) Release the BITE button.

1) Make sure you see BITE START SURE? PASS CODE PLEASE on the BITE display.

(e) Push this sequence of buttons to enter the PASS CODE: '8', '1', '3', '1'.

(f) Push the MODE SELECT button.

1) Make sure you see BITE PLEASE WAIT EXIT/ENT on the BITE display.

(g) Wait for the BITE test to complete.

1) Make sure you see BITE OK PUSH ENT KEY on the BITE display.

NOTE: If a BITE error message is shown, push the NEXT button to view the next message, or the ENTER DATA button to exit BITE mode.

(h) Push the DATA ENTER button to exit BITE.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

AUDIO BITE PANEL - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) A removal of the audio BITE panel.

(2) An installation of the audio BITE panel.

TASK 44-21-22-000-802

2. Audio BITE Panel Removal

(Figure 401)

A. General

(1) This task is the removal procedure for the BITE panel.

LOM 427, 428, 445, 457-460

(2) The BITE panel is installed above the right aft entry door.

LOM 427, 428, 445, 457-460, 462, 463

B. Location Zones

Zone	Area
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

C. Removal Procedure

SUBTASK 44-21-22-860-010

(1) Make sure that this circuit breaker is open and has safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
C	8	C01456	ENTERTAINMENT AUDIO

SUBTASK 44-21-22-020-001

(2) Do these steps to remove the audio BITE panel [1]:

(a) Remove the four screws [3] from the cover [2].

(b) Loosen the four quarter-turn fasteners on the front of the BITE panel [1].

(c) Pull the BITE panel [1] towards you to access the electrical connector.

(d) Remove the electrical connector from the BITE panel [1].

(e) Remove the BITE panel [1].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

BITE Panel Installation
Figure 401/44-21-22-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-22-400-801

3. Audio BITE Panel Installation

(Figure 401)

A. General

(1) This task is the installation procedure for the BITE panel.

B. References

Reference	Title
44-21-22-400-806	BITE Panel Memory Update (P/B 201)
44-21-22-700-802	Passenger Entertainment System BITE Test (P/B 201)

C. Location Zones

Zone	Area
242	Aft Passenger Compartment - Station 663.75 to Aft Pressure Bulkhead - Right

D. Procedure

SUBTASK 44-21-22-420-001

(1) Do these steps to install the audio BITE panel:

(a) Install the electrical connector to the BITE panel [1].

(b) Put the BITE panel [1] over the screw holes.

(c) Tighten the four quarter-turn fasteners on the front of the BITE panel [1].

(d) Install the cover [2].

(e) Install the four screws [3] in the cover [2].

SUBTASK 44-21-22-860-007

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
C	8	C01456	ENTERTAINMENT AUDIO

E. Audio multiplexer memory update

SUBTASK 44-21-22-470-003

(1) Do this task:BITE Panel Memory Update, TASK 44-21-22-400-806.

F. Installation Test

SUBTASK 44-21-22-740-002

(1) Do this task:Passenger Entertainment System BITE Test, TASK 44-21-22-700-802.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

BROADCAST DIGITAL SERVER - REMOVAL/INSTALLATION

1. General

A. This procedure has two tasks:

(1) The removal of the Broadcast Digital Server (BDS).

(2) The installation of the BDS.

(3) The BDS is also called the High Definition Media Server (HDMS).

TASK 44-21-23-000-801

2. Broadcast Digital Server Removal

A. General

(1) This task is the removal procedure for the Broadcast Digital Server (BDS).

(2) The BDS is located in the E8-1 rack in the forward EE bay.

(3) When you remove the BDS, do not supply electrical power to the system.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right

D. Prepare for the Removal

SUBTASK 44-21-23-860-001

(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

SUBTASK 44-21-23-860-002

(2) Before you touch the BDS, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

SUBTASK 44-21-23-020-001

(3) To remove the BDS, do this task: E/E Box Removal, TASK 20-10-07-000-801

SUBTASK 44-21-23-860-003

(4) Do this task: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ELECTRONIC EQUIPMENT RACK, E8

A

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Broadcast Digital Server
Figure 401/44-21-23-990-801 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Broadcast Digital Server
Figure 401/44-21-23-990-801 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-23-400-801

3. Broadcast Digital Server Installation

A. General

(1) This task has the installation procedure for the Broadcast Digital Server.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
20-40-12-000-804	Conductive Dust Cap and Connector Cover Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-800-813	Set Up dPAVES Configuration (P/B 201)
44-21-00-800-819	dPAVES Content Data and Software Loading Procedures (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Broadcast Digital Server

SUBTASK 44-21-23-860-004

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

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

SUBTASK 44-21-23-860-005

> **CAUTION**
> DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the BDS, do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802

SUBTASK 44-21-23-860-006

(3) Do this task: Conductive Dust Cap and Connector Cover Removal, TASK 20-40-12-000-804.

SUBTASK 44-21-23-420-001

(4) To install the BDS, do this task: E/E Box Installation, TASK 20-10-07-400-801.

SUBTASK 44-21-23-860-007

(5) 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

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(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	10	C01952	IFE DC

F. High Definition Media Server Installation Test

SUBTASK 44-21-23-710-002

(1) Do these steps to test the High Definition Media Server:

(a) Make sure that the IFE/PASS SEAT switch on the P5 overhead panel in the cockpit is set to ON.

(b) Select Passenger Services from the attendant control panel, and press the Entertainment ON button to power on the IFE system.

NOTE: Wait five minutes for the HDMS to initialize.

(c) Load the system configuration file: dPAVES Content Data and Software Loading Procedures, TASK 44-21-00-800-819.

(d) Initialize the newly loaded system configuration: Set Up dPAVES Configuration, TASK 44-21-00-800-813

(e) Load the following information: dPAVES Content Data and Software Loading Procedures, TASK 44-21-00-800-819

1) Application Configuration

2) Private Key

3) Auto-mode Information

4) Customer Logo

5) Boarding Music, if applicable.

6) Audio Announcements, if applicable

7) Entertainment

a) Latest full load

b) Partial loads performed since the latest full load

c) Latest quick load

8) Moving Map Configuration, if applicable

(f) Select Manual Mode on the ECP.

(g) From the Entertainment screen, select the applicable zones as the monitor source.

(h) Select Movies as a video source.

(i) Select a genre and video title from the list of available movies.

(j) Select Deployed to deploy monitors.

1) Make sure that the monitors are deployed and on.

(k) Select Play to play the video.

1) Make sure that the video program is playing on the monitors.

2) Select a seat in each zone throughout the cabin to verify that video/audio is acceptable.

(l) Select Stowed to retract the monitors, and press stop to stop the video program.

1) Make sure that the monitors are retracted and off.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

2) Make sure that the audio is not heard at the seats.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-23-860-010

(1) Do these steps at the forward attendant panel:

(a) Select Passenger Services, and press the Entertainment OFF button to power off the IFE system.

SUBTASK 44-21-23-860-011

(2) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

DATA/MEDIA LOADER - REMOVAL/INSTALLATION

1. **General**
   A. The component in this procedure is referred to as the Data/Media Loader. Alternative names for the data/media loader are:
      (1) Onboard Media Loader
   B. This procedure has two task:
      (1) The removal procedure for the Onboard Media Loader.
      (2) The installation procedure for the Onboard Media Loader.

TASK 44-21-24-000-802

2. **Onboard Media Loader - Removal**
(Figure 401)

A. General
(1) This task is the removal procedure for the Onboard Media Loader (OML).
(2) The OML is installed in the forward LH monument (G7 Galley or Closet).
(3) When you remove the OML, do not supply electrical power to the system.

B. References

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

C. Location Zones

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

D. Prepare for the Removal

SUBTASK 44-21-24-860-004
(1) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444, 458-460			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 443, 444			
A	5	C01645	SEAT POWER AFT
LOM 443, 444, 458-460			
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 446, 447, 455, 456, 458-460

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 446, 447, 455, 456 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

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

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 443, 444, 446, 447, 455, 456, 458-460

SUBTASK 44-21-24-860-005

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. Onboard Media Loader Removal

SUBTASK 44-21-24-020-002

> **CAUTION** DO NOT TOUCH THE CONNECTOR PINS OR OTHER CONDUCTORS ON THE UNIT. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) Loosen the fasteners.

NOTE: The fasteners stay attached to the media loader.

(2) Hold the handle of the Media Loader and carefully pull it from the rack.

NOTE: Carefully move the front of the media loader from side to side, approximately 1/8th inch, to help disconnect the media loader from the electrical connectors.

(3) For spring-latched electrical connectors, release the spring latches.

(4) Disconnect the electrical connectors.

(5) Remove the Media Loader

(6) Put protective covers on the electrical connectors.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Media Loader Installation
Figure 401/44-21-24-990-802

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-24-400-802

3. Onboard Media Loader - Installation

(Figure 401)

A. General

(1) This task is the installation procedure for the Onboard Media Loader (OML).

(2) The OML is installed in the forward LH monument (G7 Galley OR Closet).

(3) When you install the OML, do not supply electrical power to the system.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)

C. Location Zones

Zone	Area
230	Subzone - Passenger Compartment - Body Station 360.00 to 663.75

D. Prepare for the Installation

SUBTASK 44-21-24-860-006

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444, 458-460			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 443, 444			
A	5	C01645	SEAT POWER AFT
LOM 443, 444, 458-460			
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 446, 447, 455, 456, 458-460

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 446, 447, 455, 456, 458-460

SUBTASK 44-21-24-860-007

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. Onboard Media Loader Installation

> **CAUTION** DO NOT TOUCH THE CONNECTOR PINS OR OTHER CONDUCTORS ON THE UNIT. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

SUBTASK 44-21-24-420-002

(1) Remove the protective covers from the electrical connectors.

(2) Examine the electrical connectors for bent or broken pins, dirt, and damage.

(3) Carefully put the Media Loader in its guides.

(4) Hold the handle of the Media Loader and push it back until the rear connectors touch.

NOTE: The media loader will engage with the electrical connectors easier if you move the front of the media loader from side to side approximately 1/8 inch. While you move the media loader, apply a light horizontal force to the front of the media loader.

> **CAUTION** PUSH LIGHTLY ON THE LOWER CORNERS OF THE UNIT TO PUSH IT INTO THE CONNECTORS. IF THE UNIT DOES NOT GO INTO THE CONNECTORS EASILY, IT IS INCORRECTLY ALIGNED. PULL THE UNIT OUT, AND TRY TO PUSH IT INTO THE CONNECTORS AGAIN. TOO MUCH FORCE ON THE UNIT WILL CAUSE DAMAGE TO THE CONNECTORS IF THE UNIT IS INCORRECTLY ALIGNED.

(5) Carefully push the Media Loader to engage the rear connectors.

> **CAUTION** 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.

(6) For the spring-latched electrical connectors, install the spring latches.

(7) Move the Media Loader into its position.

(8) Align the fasteners with the holes and tighten with your fingers.

F. Onboard Media Loader Post-Installation Test

SUBTASK 44-21-24-860-008

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444, 458-460			
B	9	C01945	IFE AC

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 458-460 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 443, 444			
A	5	C01645	SEAT POWER AFT
LOM 443, 444, 458-460			
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 446, 447, 455, 456, 458-460

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 443, 444, 446, 447, 455, 456, 458-460

SUBTASK 44-21-24-710-002

(2) Do these steps:

(a) Initialize the entertainment system (Video Entertainment System - Activation, TASK 44-21-00-440-802).

(b) Put a disc in the media loader.

1) Make sure that the media loader reads the disc.

(c) Remove the disc.

(d) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-24-860-017

(1) Do this step to put the airplane back in its initial condition:

(a) Remove electrical power if necessary: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SEAT POWER MODULE - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Removal of the Seat Power Module.

(2) Installation of the Seat Power Module.

TASK 44-21-26-000-801

2. Seat Power Module Removal

A. General

(1) This is the task for the removal procedure for the Seat Power Module (SPM).

(2) The SPMs are installed on the passenger seats.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (P/B 201)

C. Removal Procedure

SUBTASK 44-21-26-860-001

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

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 443, 444			
A	5	C01645	SEAT POWER AFT
LOM 443, 444, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 458-461, 464, 466-999

SUBTASK 44-21-26-020-002

(2) Do these steps to get access to the SPM:

NOTE: The SPM is installed under the seat.

(a) Remove the bottom seat cushion.

(b) Remove the seat pan.

NOTE: It may be necessary to remove other seat components like seat arms or seat belts.

SUBTASK 44-21-26-860-002

> **CAUTION**
> DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(3) Before you do the removal of the SPM, do this task:ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-26-020-001

CAUTION	DO NOT TOUCH THE ELECTRICAL CONNECTOR CONTACT PINS. STATIC ELECTRICAL CHARGES THAT COLLECT ON THE SKIN CAN CAUSE DAMAGE TO THE ELECTROSTATIC SENSITIVE COMPONENTS INSTALLED IN THIS DEVICE.

(4) Do these steps to remove the SPM.

(a) For the spring latch connectors, release the spring latches.

(b) Disconnect the electrical connectors from the SPM.

(c) While you hold the SPM, remove the fasteners

(d) Remove the SPM.

(e) Do the following task: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

PASSENGER SEAT (EXAMPLE)

1869706 S0000331826_V2

Seat Power Module Installation
Figure 401/44-21-26-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-26-400-801

3. Seat Power Module Installation

A. General

(1) This is the task for the installation of the Seat Power Module.

B. References

Reference	Title
20-40-12-000-804	Conductive Dust Cap and Connector Cover Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Installation Procedure

SUBTASK 44-21-26-860-003

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 443, 444			
A	5	C01645	SEAT POWER AFT
LOM 443, 444, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 458-461, 464, 466-999

SUBTASK 44-21-26-910-001

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the SPM, refer to this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-26-420-001

(3) Do these steps to install the SPM:

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

(a) Do this task: Conductive Dust Cap and Connector Cover Removal, TASK 20-40-12-000-804.

(b) Examine the electrical connectors for bent or broken pins, dirt, and damage.

(c) Place the SPM on its mounting surface.

(d) Install the fasteners to secure the SPM.

(e) Connect the electrical connectors to the SPM.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

> **CAUTION** 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.

(f) For spring latched connectors, secure the connectors with the spring latches.

SUBTASK 44-21-26-410-001

(4) Do these steps to return the seat to its normal condition:

(a) Install the seat pan.

NOTE: It may be necessary to install other seat components like seat arms and seat belts.

(b) Install the seat cushion.

SUBTASK 44-21-26-860-004

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

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 443, 444			
A	5	C01645	SEAT POWER AFT
LOM 443, 444, 458-460, 464, 466-999			
A	8	C01644	SEAT POWER FWD

D. Prepare for the Installation Test

SUBTASK 44-21-26-860-017

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

LOM 443, 444, 458-461, 464, 466-999

E. Installation Test

SUBTASK 44-21-26-710-004

(1) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

F. Put the Airplane Back to its Usual Condition

LOM 443, 444, 458-460, 464, 466-999

SUBTASK 44-21-26-860-018

(1) If it is not necessary to continue to operate the system, then do this task: .Video Entertainment System - Deactivation, TASK 44-21-00-040-801

LOM 443, 444, 458-461, 464, 466-999

SUBTASK 44-21-26-860-019

(2) If it is necessary, do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

REMOTE JACK MODULE (RJM) - REMOVAL/INSTALLATION

1. **General**
   A. The remote jack module (RJM) provides access for peripheral equipment.
   B. This procedure has these tasks:
      (1) The removal of an RJM.
      (2) The installation of an RJM.
   C. The RJMs can include the following interface(s):
      (1) Audio ports.
      (2) USB ports.
      (3) Personal Media ports.

TASK 44-21-28-000-801

2. **Remote Jack Module (RJM) Removal**
   (Figure 401)

A. References

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Removal Procedure

SUBTASK 44-21-28-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444, 458-460, 466-999			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 443, 444			
A	5	C01645	SEAT POWER AFT
LOM 443, 444, 458-460, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 458-461, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 443, 444, 458-461, 466-999

SUBTASK 44-21-28-860-003

> **CAUTION**
> DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

SUBTASK 44-21-28-020-001

(3) Do these steps to remove the Remote Jack Module (RJM):

(a) Loosen the captive fastener [2] to release the RJM [1] from the mounting surface.

(b) Carefully pull out the RJM [1] from the mounting surface to access the electrical connector.

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

(c) Disconnect the electrical connector.

(d) Remove the RJM [1].

(e) Put a protective cover on the electrical connector.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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USB Remote Jack Module (RJM) Installation
Figure 401/44-21-28-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-28-400-801

3. Remote Jack Module (RJM) Installation

(Figure 401)

A. References

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

B. Location Zones

Zone	Area
200	Upper Half of Fuselage

C. Installation Procedure

SUBTASK 44-21-28-210-001

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444, 458-460, 466-999			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 443, 444			
A	5	C01645	SEAT POWER AFT
LOM 443, 444, 458-460, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 458-461, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

LOM 443, 444, 458-461, 466-999

SUBTASK 44-21-28-860-004

> **CAUTION**
> DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-21-28-420-001

(3) Do these steps to install the Remote Jack Module (RJM):

(a) Connect the electrical connector to the RJM [1].

(b) Carefully put the RJM [1] in its position on the mounting surface.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1) Put the lower edge of the RJM [1] in its position first.

(c) Install and tighten the captive fastener to lock the RJM [1] onto the mounting surface.

SUBTASK 44-21-28-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444, 458-460, 466-999			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 443, 444			
A	5	C01645	SEAT POWER AFT
LOM 443, 444, 458-460, 466-999			
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 458-461, 466-999

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 461			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

LOM 443, 444, 458-461, 466-999

SUBTASK 44-21-28-710-001

(5) Remote Jack Unit Installation Test

(a) Connect a device to the RJM and make sure it operates correctly.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CONTENT SERVER - REMOVAL/INSTALLATION

1. General

A. This procedure has these task:

(1) The removal of a Content Server (CS).

(2) The installation of a CS.

B. The CS is installed on the E-8 shelf in the Main Equipment Center.

TASK 44-21-29-000-801

2. Content Server - Removal

Figure 401

A. General

(1) This task includes the steps to remove the Content Server.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 44-21-29-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444			
B	9	C01945	IFE AC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 446, 447, 455, 456

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 446, 447, 455, 456 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 443, 444, 446, 447, 455, 456

SUBTASK 44-21-29-860-002

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

F. Remove the Content Server

SUBTASK 44-21-29-020-001

WARNING MAKE SURE THAT THE CONNECTORS ARE DISCONNECTED FROM THE EQUIPMENT AT THE TWO ENDS. OR SET THE EQUIPMENT TO OFF. THERE IS A RISK OF LASER RADIATION THAT YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.

WARNING DO NOT LOOK INTO THE END OF A FIBER-OPTIC CABLE. THERE IS A RISK OF LASER RADIATION, WHICH YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.

WARNING ALWAYS USE GLOVES IF YOU MUST TOUCH BROKEN FIBER-OPTIC CABLES. IF YOU TOUCH CABLES WITH YOUR BARE HANDS, FIBERS CAN GO INTO YOUR BODY THROUGH YOUR SKIN. THIS WILL CAUSE YOU INJURY.

CAUTION INSTALL THE PROTECTIVE CAPS IMMEDIATELY AFTER YOU DISCONNECT THE CABLE. IT IS EASY TO CAUSE DAMAGE TO THE FIBER-OPTIC CABLE.

CAUTION DO NOT BEND THE FIBER-OPTIC CABLE MORE THAN THE MINIMUM BEND RADIUS. THE CABLE IS EASILY DAMAGED.

CAUTION DO NOT PULL OR PUSH THE FIBER-OPTIC CABLE. THE CABLE IS EASILY DAMAGED.

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

(1) To remove the Content Server, do this task: E/E Box Removal, TASK 20-10-07-000-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Content Server Installation
Figure 401/44-21-29-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-29-400-801

3. Content Server - Installation

Figure 401

A. General

(1) This task includes the steps to install the Content Server.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-400-801	Load Software (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Installation

SUBTASK 44-21-29-860-003

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 446, 447, 455, 456

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 446, 447, 455, 456 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	10	C01952	IFE DC (INOP)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 443, 444, 446, 447, 455, 456

SUBTASK 44-21-29-860-004

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

F. Content Server Installation

SUBTASK 44-21-29-420-002

WARNING	MAKE SURE THAT THE CONNECTORS ARE DISCONNECTED FROM THE EQUIPMENT AT THE TWO ENDS. OR SET THE EQUIPMENT TO OFF. THERE IS A RISK OF LASER RADIATION THAT YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.
WARNING	DO NOT LOOK INTO THE END OF A FIBER-OPTIC CABLE. THERE IS A RISK OF LASER RADIATION, WHICH YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.
WARNING	ALWAYS USE GLOVES IF YOU MUST TOUCH BROKEN FIBER-OPTIC CABLES. IF YOU TOUCH CABLES WITH YOUR BARE HANDS, FIBERS CAN GO INTO YOUR BODY THROUGH YOUR SKIN. THIS WILL CAUSE YOU INJURY.
CAUTION	INSTALL THE PROTECTIVE CAPS IMMEDIATELY AFTER YOU DISCONNECT THE CABLE. IT IS EASY TO CAUSE DAMAGE TO THE FIBER-OPTIC CABLE.
CAUTION	DO NOT BEND THE FIBER-OPTIC CABLE MORE THAN THE MINIMUM BEND RADIUS. THE CABLE IS EASILY DAMAGED.
CAUTION	DO NOT PULL OR PUSH THE FIBER-OPTIC CABLE. THE CABLE IS EASILY DAMAGED.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(CAUTION PRECEDES)

> **CAUTION** DO NOT TOUCH THE CONNECTOR PINS OR OTHER CONDUCTORS ON THE UNIT. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) To Install the Content Server, do this task: E/E Box Installation, TASK 20-10-07-400-801.

G. Content Server Post-Installation Test

SUBTASK 44-21-29-720-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 446, 447, 455, 456

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 443, 444, 446, 447, 455, 456

H. Prepare for the Installation Test

SUBTASK 44-21-29-860-006

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

SUBTASK 44-21-29-470-001

(2) If applicable, Load the IFE System Software: Load Software, TASK 44-21-00-400-801.

I. Installation Test

SUBTASK 44-21-29-740-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-21-29-740-002

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-29-710-001

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-29-860-005

(1) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 44-21-29-860-007

(2) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

SUBTASK 44-21-29-860-008

(3) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

AIRCRAFT INTERFACE - REMOVAL/INSTALLATION

1. General

A. This procedure has these task:

(1) The removal of an Aircraft Interface (AI).

(2) The installation of an AI.

B. The AI is installed on the E-8 shelf in the Main Equipment Center.

TASK 44-21-30-000-801

2. Aircraft Interface - Removal

Figure 401

A. General

(1) This task includes the steps to remove the Aircraft Interface.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 44-21-30-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 446, 447, 455, 456

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 446, 447, 455, 456 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

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

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 443, 444, 446, 447, 455, 456

SUBTASK 44-21-30-860-002

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

F. Aircraft Interface Removal

SUBTASK 44-21-30-020-001

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

(1) To remove the Aircraft Interface, do this task: E/E Box Removal, TASK 20-10-07-000-801.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ELECTRONIC EQUIPMENT RACK, E8

A

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Aircraft Interface Installation
Figure 401/44-21-30-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-30-400-801

3. Aircraft Interface - Installation

Figure 401

A. General

(1) This task includes the steps to install the Aircraft Interface.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-040-801	Video Entertainment System - Deactivation (P/B 201)
44-21-00-400-801	Load Software (P/B 201)
44-21-00-400-802	Media Load (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Installation

SUBTASK 44-21-30-860-003

(1) Make sure that these circuit breakers are open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 446, 447, 455, 456

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name

LOM 446, 447, 455, 456

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 446, 447, 455, 456 (Continued)

(Continued)

F/O Electrical System Panel, P6-1

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

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 443, 444, 446, 447, 455, 456

SUBTASK 44-21-30-860-004

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

F. Aircraft Interface Installation

SUBTASK 44-21-30-420-001

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

(1) To install the Aircraft Interface, do this task: E/E Box Installation, TASK 20-10-07-400-801.

G. Aircraft Interface Post-Installation Test

SUBTASK 44-21-30-860-006

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 443, 444			
B	9	C01945	IFE AC
B	10	C01952	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

LOM 443, 444, 446, 447, 455, 456

These circuit breakers are inoperative and should remain open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 446, 447, 455, 456			
B	9	C01945	IFE AC (INOP)
B	10	C01952	IFE DC (INOP)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 446, 447, 455, 456 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT (INOP)
A	8	C01644	SEAT POWER FWD (INOP)

LOM 443, 444, 446, 447, 455, 456

H. Prepare for the Installation Test

SUBTASK 44-21-30-860-007

(1) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

SUBTASK 44-21-30-470-001

(2) If applicable, Load the IFE System Software: Load Software, TASK 44-21-00-400-801.

SUBTASK 44-21-30-470-002

(3) If applicable, Load the Media: Media Load, TASK 44-21-00-400-802.

I. File Server Installation Test

SUBTASK 44-21-30-740-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-30-740-002

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-30-710-001

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

J. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-30-860-005

(1) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 44-21-30-860-008

(2) If it is not necessary to continue to operate the system, then do this task: Video Entertainment System - Deactivation, TASK 44-21-00-040-801.

SUBTASK 44-21-30-860-009

(3) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

USB HUB - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) The removal of an USB Hub.

(2) The installation of an USB Hub.

B. The USB Hub allows two USB devices to be connected to a single USB port on the Smart Monitor.

C. The USB Hub serves as an optional repeater/extender for a single USB peripheral.

TASK 44-21-31-000-801

2. USB Hub - Removal

A. General

(1) This task includes the steps to remove the USB Hub.

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 44-21-31-860-001

(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, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-31-860-002

> **CAUTION**
> DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. USB Hub Removal

SUBTASK 44-21-31-010-001

(1) Remove the USB Hub:

(a) Disconnect the cables.

(b) Release the two Fasteners [1].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(c) Remove the USB Hub [2].

(d) Put blanking caps on the disconnected electrical connectors.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

USB Hub - Installation
Figure 401/44-21-31-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-31-400-801

3. USB Hub - Installation

A. General

(1) This task includes the steps to install the USB Hub.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage

D. Prepare for the Installation

SUBTASK 44-21-31-860-003

(1) Make sure that these circuit breakers are open and have 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, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-31-860-004

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(2) Before you touch the unit, refer to this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. USB Hub Installation

SUBTASK 44-21-31-410-001

(1) Install the USB Hub:

> **CAUTION** DO NOT TOUCH THE CONNECTOR PINS OR OTHER CONDUCTORS ON THE SVU. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE SVU.

(a) Remove the protective covers from the electrical connectors.

(b) Position the USB Hub [2] so that the fasteners are over their matching holes.

(c) Push each of the two Fasteners [1] through the holes to engage the fastener.

(d) Connect the cables to the USB Hub [2].

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CAUTION	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.

(e) Secure the connectors with the spring latches.

F. USB Hub Post-Installation Test

SUBTASK 44-21-31-860-005

(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, P6-12

Row	Col	Number	Name
A	5	C01645	SEAT POWER AFT
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-31-720-001

(2) Installation Test

(a) Connect a USB device in the port.

NOTE: Make sure that it is detected on the monitor screen.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-31-860-006

(1) Do this step to put the airplane back in its initial condition:

(a) Remove electrical power if necessary: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

INTEGRATED SERVER - REMOVAL/INSTALLATION

1. General

A. This procedure has these task:

(1) The removal of a Integrated Server (IS).

(2) The installation of a Integrated Server (IS).

B. The Integrated Server is installed on the E-8 shelf in the Main Equipment Center.

TASK 44-21-33-000-801

2. Integrated Server - Removal

(Figure 401)

A. General

(1) This task includes the steps to remove the Integrated Server.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 44-21-33-010-001

(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
C	6	C01583	ENTERTAINMENT PA SYS BAT
D	4	C00082	COMMUNICATIONS PA AMPL BAT

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-33-010-002

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F. Remove the Integrated Server

SUBTASK 44-21-33-000-001

WARNING	MAKE SURE THAT THE CONNECTORS ARE DISCONNECTED FROM THE EQUIPMENT AT THE TWO ENDS. OR SET THE EQUIPMENT TO OFF. THERE IS A RISK OF LASER RADIATION THAT YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.
WARNING	DO NOT LOOK INTO THE END OF A FIBER-OPTIC CABLE. THERE IS A RISK OF LASER RADIATION, WHICH YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.
WARNING	ALWAYS USE GLOVES IF YOU MUST TOUCH BROKEN FIBER-OPTIC CABLES. IF YOU TOUCH CABLES WITH YOUR BARE HANDS, FIBERS CAN GO INTO YOUR BODY THROUGH YOUR SKIN. THIS WILL CAUSE YOU INJURY.
CAUTION	INSTALL THE PROTECTIVE CAPS IMMEDIATELY AFTER YOU DISCONNECT THE CABLE. IT IS EASY TO CAUSE DAMAGE TO THE FIBER-OPTIC CABLE.
CAUTION	DO NOT BEND THE FIBER-OPTIC CABLE MORE THAN THE MINIMUM BEND RADIUS. THE CABLE IS EASILY DAMAGED.
CAUTION	DO NOT PULL OR PUSH THE FIBER-OPTIC CABLE. THE CABLE IS EASILY DAMAGED.
CAUTION	DO NOT TOUCH THE CONNECTOR PINS OR OTHER CONDUCTORS ON THE UNIT. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) To remove the Integrated Server, do this task: E/E Box Removal, TASK 20-10-07-000-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Integrated Server - Installation
Figure 401/44-21-33-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-33-420-801

3. Integrated Server - Installation

(Figure 401)

A. General

(1) This task includes the steps to install the Integrated Server.

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-400-801	Load Software (P/B 201)
44-21-00-440-802	Video Entertainment System - Activation (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-21-00-700-802	Passenger Video System - Quick Test (P/B 501)
44-21-00-700-803	Passenger Video System - Operational Test (P/B 501)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Installation

SUBTASK 44-21-33-410-001

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
B	9	C01945	IFE AC
B	10	C01952	IFE DC
C	6	C01583	ENTERTAINMENT PA SYS BAT
D	4	C00082	COMMUNICATIONS PA AMPL BAT

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	8	C01644	SEAT POWER FWD

F. Integrated Server Installation

SUBTASK 44-21-33-420-001

WARNING

MAKE SURE THAT THE CONNECTORS ARE DISCONNECTED FROM THE EQUIPMENT AT THE TWO ENDS. OR SET THE EQUIPMENT TO OFF. THERE IS A RISK OF LASER RADIATION THAT YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(WARNING PRECEDES)

WARNING	DO NOT LOOK INTO THE END OF A FIBER-OPTIC CABLE. THERE IS A RISK OF LASER RADIATION, WHICH YOU WILL NOT SEE. LASER RADIATION IS DANGEROUS FOR YOUR EYES.
WARNING	ALWAYS USE GLOVES IF YOU MUST TOUCH BROKEN FIBER-OPTIC CABLES. IF YOU TOUCH CABLES WITH YOUR BARE HANDS, FIBERS CAN GO INTO YOUR BODY THROUGH YOUR SKIN. THIS WILL CAUSE YOU INJURY.
CAUTION	INSTALL THE PROTECTIVE CAPS IMMEDIATELY AFTER YOU DISCONNECT THE CABLE. IT IS EASY TO CAUSE DAMAGE TO THE FIBER-OPTIC CABLE.
CAUTION	DO NOT BEND THE FIBER-OPTIC CABLE MORE THAN THE MINIMUM BEND RADIUS. THE CABLE IS EASILY DAMAGED.
CAUTION	DO NOT PULL OR PUSH THE FIBER-OPTIC CABLE. THE CABLE IS EASILY DAMAGED.
CAUTION	DO NOT TOUCH THE CONNECTOR PINS OR OTHER CONDUCTORS ON THE UNIT. IF YOU TOUCH THESE CONDUCTORS, ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) To Install the Integrated Server, do this task: E/E Box Installation, TASK 20-10-07-400-801.

G. Prepare for the Installation Test

SUBTASK 44-21-33-410-002

(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
C	6	C01583	ENTERTAINMENT PA SYS BAT
D	4	C00082	COMMUNICATIONS PA AMPL BAT

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
A	8	C01644	SEAT POWER FWD

SUBTASK 44-21-33-860-001

(2) Initialize the IFES, and log in to the CABIN MAINTENANCE screen: Video Entertainment System - Activation, TASK 44-21-00-440-802.

SUBTASK 44-21-33-470-001

(3) If applicable, Load the IFE System Software: Load Software, TASK 44-21-00-400-801.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

H. Installation Test

SUBTASK 44-21-33-720-001

(1) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the LRUs are reporting.

SUBTASK 44-21-33-710-002

(2) Do a Quick Test: Passenger Video System - Quick Test, TASK 44-21-00-700-802.

(a) Make sure that no faults are reported.

SUBTASK 44-21-33-710-003

(3) Do an Operational Test: Passenger Video System - Operational Test, TASK 44-21-00-700-803.

I. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-33-410-003

(1) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

SUBTASK 44-21-33-860-002

(2) If it is necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

ENTERTAINMENT SWITCH MODULE - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Entertainment Switch Module Removal

(2) Entertainment Switch Module Installation.

TASK 44-21-34-000-801

2. Entertainment Switch Module Removal

(Figure 401)

A. General

(1) This task includes the steps to remove the entertainment switch module.

(2) The entertainment switch module is installed on the forward attendants' panel, P13.

(a) When you remove the entertainment switch module, do not supply the electrical power to the audio system.

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 44-21-34-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
D	4	C00082	COMMUNICATIONS PA AMPL BAT

SUBTASK 44-21-34-910-001

> **CAUTION**
> DO NOT TOUCH THE ENTERTAINMENT SWITCH MODULE BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE ENTERTAINMENT SWITCH MODULE.

(2) Before you touch the entertainment switch module [1], do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. Entertainment Switch Module Removal

SUBTASK 44-21-34-020-001

(1) Do these steps to remove entertainment switch module [1]:

(a) Remove the screws [2] that attach the shroud [3] to the attendants' panel.

(b) Remove the shroud [3].

(c) Remove the screws [4] and washers [5] that attach the entertainment switch module [1] to the attendants' panel.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(d) Remove the entertainment switch module [1].

——— END OF TASK ———

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ENTRY DOOR
(EXAMPLE)

L37189 S0006565959_V3

Entertainment Switch Module Installation
Figure 401/44-21-34-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-21-34-400-801

3. Entertainment Switch Module Installation

(Figure 401)

A. General

(1) This task includes the steps to install the entertainment switch module.

(2) The entertainment switch module is installed on the forward attendants' panel, P13.

B. References

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

C. Location Zones

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

D. Prepare for the Installation

SUBTASK 44-21-34-910-002

CAUTION	DO NOT TOUCH THE ENTERTAINMENT SWITCH MODULE BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE ENTERTAINMENT SWITCH MODULE.

(1) Before you touch the entertainment switch module [1], do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

E. Entertainment Switch Module Installation

SUBTASK 44-21-34-420-001

(1) Do these steps to install the entertainment switch module [1]:

(a) Put the entertainment switch module [1] in its place over the screw holes on the attendants' panel.

(b) Install the screws [4] and washers [5] that attach the entertainment switch module [1] to the attendants' panel.

(c) Put the shroud [3] in its place over the attendants' panel.

(d) Install the screws [2] that attach to the attendants' panel.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-21-34-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
D	4	C00082	COMMUNICATIONS PA AMPL BAT

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CELL MODEM - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

(1) Cell Modem Deactivation

(2) Cell Modem Activation

TASK 44-30-01-040-801

2. Cell Modem - Deactivation

(Figure 44-30-01-990-801 or Figure 44-30-01-990-802)

A. General

(1) This procedure removes electrical power to the Cell Modem.

B. References

Reference	Title
44-30-01-990-801	Figure: Cell Modem Installation (P/B 401)
44-30-01-990-802	Figure: Cell Modem Installation Test (P/B 401)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
240	Subzone - Passenger Compartment - Body Station 663.75 to Body Station 1016.00

D. Procedure

SUBTASK 44-30-01-860-006

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 466-999			
A	9	C01956	ANTENNA/WAP PWR DC
LOM 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
B	13	C01695	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999			
A	8	C01644	SEAT POWER FWD

E. Cell Modem - Tryout

NOTE: This tryout is to make sure the Cell Modem is in a zero energy state.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-30-01-860-007

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 466-999			
A	9	C01956	ANTENNA/WAP PWR DC
LOM 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
B	13	C01695	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999			
A	8	C01644	SEAT POWER FWD

——— **END OF TASK** ———

TASK 44-30-01-440-801

3. Cell Modem - Activation

(Figure 44-30-01-990-801 or Figure 44-30-01-990-802)

A. General

(1) This procedure adds power to the Cell Modem.

B. References

Reference	Title
44-30-01-990-801	Figure: Cell Modem Installation (P/B 401)
44-30-01-990-802	Figure: Cell Modem Installation Test (P/B 401)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
240	Subzone - Passenger Compartment - Body Station 663.75 to Body Station 1016.00

D. Procedure

SUBTASK 44-30-01-860-008

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 466-999			
A	9	C01956	ANTENNA/WAP PWR DC
LOM 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
B	13	C01695	IFE DC

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425 (Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999			
A	8	C01644	SEAT POWER FWD

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

CELL MODEM - REMOVAL/INSTALLATION

1. General

A. This procedure has these task:

(1) Removal of the Cell Modem (CM).

(2) Installation of the Cell Modem.

TASK 44-30-01-000-801

2. Cell Modem Removal

A. General

(1) This task is the removal procedure for the GSM Cell Modem.

(2) The Cell Modem is installed onto its equipment tray in the left overhead at station 727.

(3) When you remove the Cell Modem, make sure no power is being supplied to the unit.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (P/B 201)
25-21-45-000-801	Ceiling Panel - Removal (P/B 401)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)

C. Tools/Equipment

Reference	Description
STD-1048	Stepladder - 6 foot (1.83m)

D. Location Zones

Zone	Area
240	Subzone - Passenger Compartment - Body Station 663.75 to Body Station 1016.00

E. Removal Procedure

SUBTASK 44-30-01-860-001

(1) Do these steps to prepare the Cell Modem for removal:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 466-999			
A	9	C01956	ANTENNA/WAP PWR DC
LOM 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
B	13	C01695	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT

ECCN 9E991 BOEING PROPRIETARY - See title page for details

LOM 422, 425, 433, 434, 440, 442-444, 453, 454 (Continued)

(Continued)

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-30-01-010-001

(2) Use a 6 foot (1.83m) stepladder, STD-1048 to get access to the applicable ceiling panel, Figure 401 or Figure 402.

SUBTASK 44-30-01-010-002

(3) Remove the aircraft ceiling panel, Ceiling Panel - Removal, TASK 25-21-45-000-801 or Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.

SUBTASK 44-30-01-910-001

CAUTION DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(4) Before you touch the Cell Modem, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

SUBTASK 44-30-01-020-001

WARNING DO NOT REMOVE THIS UNIT WHEN POWER IS APPLIED. THIS CAN CAUSE LARGE OUTPUT VOLTAGE SPIKES WHICH CAN CAUSE DAMAGE TO THE UNIT AND ASSOCIATED EQUIPMENTS.

CAUTION DAMAGE TO ANTENNA MAY RESULT IF REMOVED IN A SLANTED OR TWISTING MANNER.

(5) To remove the Cell Modem preform the following steps:

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.

(a) Release the spring latches on the spring latched connectors.

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

(b) Disconnect the electrical connectors.

(c) Remove the four captive fasteners.

(d) Remove and retain the termination plug if one is installed.

(e) Remove the Cell Modem.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-30-01-910-002

(6) Do this task: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1 THE CELL MODEM CAN LOOK DIFFERENT

1856428 S0000332345_V4

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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Enable 2 Test

Step	Test Condition	Expected Result	Actual Result	Test Result
1	CM is On in the AUTO mode	CM is ON	CM is ON	PASS
2	Simulate In-Air condition	CM is OFF	CM is OFF	PASS
3	Restore to On-Ground condition	CM is ON	CM is ON	PASS
4	Simulate Engine-1-On condition	CM is OFF		
5	Restore to Engine-1-Off condition	CM is ON		
6	Simulate Engine-2-On condition	CM is ON		
7	Restore to Engine-2-Off condition	CM is ON		

Start Test

ATTENDANT/PANASONIC IFE CONTROL PANEL
(ENABLE TEST SCREEN)

A

2575344 S0000619243_V1

Cell Modem Installation Test
Figure 402/44-30-01-990-802

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-30-01-400-801

3. Cell Modem Installation

A. General

(1) This is the installation procedure for the Cell Modem.

B. References

Reference	Title
20-40-12-000-804	Conductive Dust Cap and Connector Cover Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
25-21-45-400-801	Ceiling Panel - Installation (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)

C. Tools/Equipment

Reference	Description
STD-1048	Stepladder - 6 foot (1.83m)

D. Location Zones

Zone	Area
240	Subzone - Passenger Compartment - Body Station 663.75 to Body Station 1016.00

E. Installation Procedure

SUBTASK 44-30-01-860-002

(1) Make sure that these circuit breakers are open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 466-999			
A	9	C01956	ANTENNA/WAP PWR DC
LOM 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
B	13	C01695	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999			
A	8	C01644	SEAT POWER FWD

SUBTASK 44-30-01-010-003

(2) Use a 6 foot (1.83m) stepladder, STD-1048 to get access to the equipment tray.

SUBTASK 44-30-01-910-003

CAUTION

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(3) Before you touch the Cell Modem, do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-30-01-910-004

(4) Do this task: Conductive Dust Cap and Connector Cover Removal, TASK 20-40-12-000-804.

SUBTASK 44-30-01-400-001

> **CAUTION**
> DAMAGE TO ANTENNA MAY RESULT IF REMOVED IN A SLANTED OR TWISTING MANNER.

(5) To install the Cell Modem, do the following steps:

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.

(a) Position the Cell Modem onto the equipment tray.

NOTE: Make sure that the connectors match the cables and the fasteners are over their matching holes.

(b) Push each of the four captive fasteners through the holes.

(c) install the termination plug on the component if necessary.

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

(d) Connect the electrical connector.

> **CAUTION**
> 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.

(e) Secure the connectors with the spring latches.

SUBTASK 44-30-01-860-003

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
LOM 466-999			
A	9	C01956	ANTENNA/WAP PWR DC
LOM 422, 425			
B	9	C01646	IVS HEAD-END
B	10	C01647	ENTERTAINMENT PWR CTRL
B	13	C01695	IFE DC

F/O Electrical System Panel, P6-12

Row	Col	Number	Name
LOM 422, 425, 433, 434, 440, 442-444, 453, 454			
A	5	C01645	SEAT POWER AFT
LOM 422, 425, 433, 434, 440, 442-444, 453, 454, 466-999			
A	8	C01644	SEAT POWER FWD

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-30-01-860-004

> **CAUTION** MAKE SURE THAT THE AIR COOLING SYSTEM IS ON BEFORE THE IFE SYSTEM IS ON. IF THE IFE SYSTEM BECOMES TOO HOT, DAMAGE CAN OCCUR.

(7) Initialize the IFE system by setting the IFE switch on the forward attendant panel (P13) to the ON position.

NOTE: Do not touch the unit when power is applied.

F. Cell Modem Installation Test

SUBTASK 44-30-01-710-001

(1) Do the following steps to ensure the Cell Modem is operational:

(a) Go to the CABIN MAINTENANCE screen at the Crew Panel.

(b) Press the SYSTEM MAINTENANCE button.

(c) Press the CELL MODEM MAINTENANCE button.

(d) Make sure the modem status is ON and the Modem Mode is AUTO on the Modem Power section.

(e) Press the CELL MODEM TEST button.

(f) Press the START CELL MODEM TEST button.

NOTE: During the test a pop-up message will display “Please wait. Modem Test is being Performed”.

(g) Make sure a pop-up message displaying “SUCCESS” appears once the test is complete.

(h) Press the OK button.

(i) Make sure the screen reads PASS for the Start Cell Modem Test.

(j) Select START CONNECTIVITY TEST button.

1) Make sure pop-up message is displayed “Please wait. Connectivity Test is being performed”.

(k) Verify START CONNECTIVITY TEST shows “PASS”.

(l) Select START ENABLE 1 TEST button.

1) Make sure pop-up message is displayed “Please wait. Enable 1 Test is being performed”.

2) Make sure ENABLE TEST 1 shows PASS.

(m) Select START ENABLE 2 TEST button.

1) Make sure ENABLE TEST 2 screen is displayed. Wait a few seconds until test prerequisite.

2) Make sure CM is ON in the AUTO mode of Test Condition, CM is ON of Expected Result, and PASS of Test Result.Figure 401 or Figure 402

(n) Select START TEST button.

1) Make sure pop-up message is displayed “Please simulate IN-AIR condition”.

(o) Press the ON/OFF button located on the PSEU BITE Control Panel.

1) Make sure the PSEU BITE Display is on and the display reads “Existing Faults?”.

(p) Press the NO button on the PSEU BITE Control Panel.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1) Make sure the display reads “FAULT HISTORY?”.

(q) Press the NO button.

1) Make sure the display reads “GROUND TESTS?”.

(r) Press the NO button.

1) Make sure the display reads “AIR/GND OVRD?”.

(s) Press the YES button.

1) Make sure the display reads “SET SYS 1 IN THE AIR?”.

(t) Press the YES button.

1) Make sure the display reads “ARE YOU SURE?”.

(u) Press the YES button.

(v) Select OK button on the Crew Panel.

1) Make sure Simulate In-Air condition of Test Condition, CM is OFF of Expected Result, and PASS of Test Result.Figure 401 or Figure 402

2) Make sure pop-up message “Please restore the aircraft to the ON-GROUND condition” is displayed.

(w) Press the YES button on the PSEU BITE Control Panel.

1) Make sure the display reads “ARE YOU SURE?”.

(x) Press the YES button on the PSEU BITE Control Panel.

(y) Wait 1.5 minutes.

(z) Select OK on the Crew Panel.

1) Make sure Restore to On-Ground condition of Test Condition, CM is On of Expected Result, and PASS of Test Result.Figure 401 or Figure 402

(aa) Select Cancel button from the ENABLE 2 TEST screen.

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

G. Put the airplane back to its usual condition.

SUBTASK 44-30-01-860-005

(1) Do the following steps to put the airplane back to its usual condition.

(a) Install the aircraft ceiling panel, Ceiling Panel - Installation, TASK 25-21-45-400-801 or Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.

(b) Remove the 6 foot (1.83m) stepladder, STD-1048.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

GLOBAL COMMUNICATIONS SUITE - MAINTENANCE PRACTICES

1. General

A. This procedure has these tasks:

(1) Global Communications Suite - Deactivation

(2) Global Communications Suite - Activation

LOM 466-999 PRE SB 737-44-1032

(3) Laptop Operation

LOM 466-999

(4) Set Maintenance Aircraft Information

(5) Load Satellite Coverage or Portal Content

(6) Reconfigure the Wireless Access Point

(7) Wireless Access Point Radio Control

(8) Change Wireless Access Point Transmit Power

(9) Satellite Status Check

(10) eXConnect System Commissioning

(11) Set Antenna Offset Information

(12) Check Antenna Information

(13) Set eXConnect System Services

TASK 44-35-00-040-801-001

2. Global Communications Suite - Deactivation

A. General

(1) This procedure removes electrical power to the Global Communications Suite.

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
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. Global Communications Suite Deactivation

SUBTASK 44-35-00-040-001-001

(1) Do these steps to log out of the Global Communications Suite maintenance mode:

(a) On the CABIN MAINTENANCE screen, select the Logout button.

1) Make sure that the Cabin Crew MAIN MENU screen is shown.

SUBTASK 44-35-00-860-027-001

(2) At the Attendant Control Panel (ACP), select the power OFF button.

SUBTASK 44-35-00-860-028-001

(3) Set the BROADBAND CONTROL PANEL switch, on the P5-99 panel, to the OFF position.

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SUBTASK 44-35-00-860-008-001

(4) Set the IFE/PASS SEAT switch, on the P5-13 panel, to the OFF position.

SUBTASK 44-35-00-860-037-001

(5) Set the Ground Test Enable (GTE) switch to NORMAL.

NOTE: GTE switch is used for maintenance access only.

SUBTASK 44-35-00-860-005-001

(6) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA
B	9	C01945	IFE AC
B	10	C01952	IFE DC

D. Global Communications Suite - Tryout

NOTE: This tryout is to make sure the Global Communication Suite is in a zero energy state.

SUBTASK 44-35-00-860-006-001

(1) Do these steps:

(a) Make sure that the IFE/WIFI button on the forward attendant control panel (ACP) is inactive.

(b) Make sure that the Crew Panel is off.

(c) Make sure that the lights on the front panel of the File Server are off.

NOTE: File Server is located on the E8-1 shelf.

END OF TASK

TASK 44-35-00-440-801-001

3. Global Communications Suite - Activation

(Figure 201)

A. General

(1) This procedure adds electrical power to the Global Communications Suite.

B. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right
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. Global Communications Suite Activation

SUBTASK 44-35-00-860-007-001

(1) Do these steps:

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(a) Make sure that these circuit breakers are closed:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA
B	9	C01945	IFE AC
B	10	C01952	IFE DC

SUBTASK 44-35-00-860-009-001

(2) Set the IFE/PASS SEATS switch, on the P5-13 panel, to the ON position.

SUBTASK 44-35-00-860-013-001

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 BROADBAND CONTROL PANEL switch, on the P5-99 panel, to the ON position.

SUBTASK 44-35-00-860-038-001

(4) Set the Ground Test Enable (GTE) switch to GND TEST ENABLE.

NOTE: GTE switch is used for maintenance access only.

SUBTASK 44-35-00-890-011-001

WARNING KEEP ALL PERSONNEL AT A SAFE DISTANCE FROM THE ANTENNA. RF ENERGY CAN CAUSE INJURIES TO PERSONNEL.

WARNING OBEY THESE PRECAUTIONS BEFORE YOU TRANSMIT FROM THE BROADBAND SYSTEM. IF YOU IGNORE THESE PRECAUTIONS, INJURIES TO PERSONNEL AND DAMAGE TO EQUIPMENT CAN OCCUR.

(5) Radio frequency fields near the antenna may exceed the Federal Communications Commission (FCC) 1mW/sq power flux density (PFD) guidelines for human exposure. Follow these precaution carefully:

(a) Do not transmit from the broadband system when personnel are within 15 ft (5 m) from the radome in all directions.

(b) Make sure that there is no other airplane that is refueling, taxiing, waiting for take off, or on approach within 328 ft (100 m) of the radome.

(c) Place cones and signs to warn of radiation hazard around the operating perimeter of the antenna when the system is in radiate mode.

(d) As a safety precaution, have a mechanic stationed with a headset to communicate to the flight deck.

(e) In the flight deck, do these steps to turn on the body anti-collision lights while performing this test:

1) At the P5 overhead panel, set the BEACON switch, on the ANTI-ICE panel, to the ON position.

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a) Make sure that the Anti-Collision (beacon) lights at the top and bottom of the fuselage come on.

SUBTASK 44-35-00-890-010-001

CAUTION DO NOT OPERATE THE SYSTEM IN THE TRANSMIT MODE FOR LONG PERIODS WHILE ON THE GROUND. THE SYSTEM WILL BECOME TOO HOT. DAMAGE TO THE SYSTEM WILL OCCUR.

CAUTION OBEY THE SPECIFIED LIMITS WHEN YOU TRANSMIT FROM THE BROADBAND SYSTEM. IF YOU IGNORE THE LIMITS, DAMAGE TO EQUIPMENT CAN OCCUR.

(6) Make sure that the airplane is not in any of the following conditions:

(a) In the vicinity of fueling operations.

(b) Defueling/refueling or in the Fuel Dock.

(c) De-icing the airplane.

(d) Inside of a hangar.

(e) Located next to a building, the airplane requires unobstructed view to be able connect to the satellite.

SUBTASK 44-35-00-860-010-001

(7) To initialize the entertainment system, do these steps as necessary:

(a) Do these steps at the Attendant Control Panel (ACP):

1) Select the IFE/WIFI button.

NOTE: When the attendant panel is not in use and the airplane is on the ground, the display screen will be on the logo screen saver. To reactivate the screen, sequentially touch opposite corners of the display screen within 2 seconds.

NOTE: IFE function is only available on the forward ACP.

a) Make sure that the IFE/WIFI button is ON.

2) Select the WIFI button.

a) Make sure that the WIFI button is ON.

(b) Wait approximately 5 minutes to allow the IFE to power up and complete the operational and database software download.

NOTE: On the very first time the in-seat video system is powered or after a headend LRU replacement, it may take up to 1/2 hour for the software to distribute and load to all applicable LRU.

(c) Make sure that these conditions exist after the boot-up is complete:

1) Make sure that the airline WELCOME/LOGO screen is shown at the Crew Panel.

(d) To log in to the CABIN CREW screens, do the steps that follow at the Crew Terminal:

1) At the Cabin Crew WELCOME/LOGO screen, select the Log In or Proceed To Menu button.

a) Make sure the Cabin Crew MAIN MENU screen shows.

(e) If it is necessary to log in to the CABIN MAINTENANCE screen, do the steps that follow:

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1) From the Cabin Crew MAIN MENU screen, select the Maintenance button.
   a) Make sure that the PASSCODE screen shows.
2) From the PASSCODE screen, select the Virtual Keyboard button.
   a) Make sure the KEYBOARD screen is shown.
3) From the KEYBOARD screen, enter a valid passcode.
   NOTE: A series of asterisks will appear in the Passcode entry area.
4) Select the ENTER key on the Virtual Keyboard to accept the passcode.
5) Select the Continue button.
   a) Make sure that the CABIN MAINTENANCE screen shows.

END OF TASK

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RF Safety Exclusion Zone
Figure 201/44-35-00-990-801-001

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LOM 466-999 PRE SB 737-44-1032

TASK 44-35-00-800-808-001

4. Laptop Operation

A. General

(1) This task contains the steps to connect the laptop to the Broadband Controller (BC) of the Global Communication Suite (GCS) System.

B. Prepare for the Laptop Operation

SUBTASK 44-35-00-440-023-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

SUBTASK 44-35-00-710-019-001

(2) The laptop must have a PuTTY application installed.

NOTE: A free PuTTY application can be found at:

http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html.

C. Connect the Laptop

SUBTASK 44-35-00-420-001-001

(1) To connect a laptop to the BC through the Data Loader Port, do the steps that follow:

(a) Make sure that the laptop is connected to the data loader port of the eXConnect system at the Video Control Center (VCC).

(b) Go to the Internet Protocol (TCP/IP) Properties window and change the laptop IP address to 172.17.16.1.

(c) Open the PuTTY software to communicate with the system using SSH.

(d) At the PuTTY Configuration GUI, enter the BC IP address 172.XX.XX.XX.

(e) Select the SSH radio button.

(f) Select the Open button.

1) The connection is set.

SUBTASK 44-35-00-420-002-001

(2) To connect a laptop to the BC through the RJ45 Crew Port, do the steps that follow:

(a) Make sure that the laptop is connected to the RJ45 crew port of the eXConnect system at the VCC.

(b) Go to the Internet Protocol (TCP/IP) Properties window and select the Obtain an IP address Automatically radio button.

(c) Select the OK button.

(d) At the Crew Panel (CP), select the Maintenance button.

(e) On the CABIN MAINTENANCE screen, select the Data Offload button.

(f) On the DATA OFFLOAD screen, select the RJ45 Configuration button.

(g) Change the status to Maintenance.

1) Wait two minutes for the system to reconfigure.

(h) Select Mascorp.

1) Make sure that the Details Frame is shown.

a) If the IP address is 172.29.xx.xx, proceed to step (i).

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LOM 466-999 PRE SB 737-44-1032 (Continued)

b) If the IP address is 172.19.xx.xx., right-click on Mascorp and select Repair.

(i) Open the PuTTY software to communicate with the system using SSH.

(j) At the PuTTY Configuration GUI, enter the BC IP address 172.XX.XX.XX.

(k) Select the SSH radio button.

(l) Select the Open button.

1) The connection is set.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-022-001

(1) Do this task to stop the GCS system if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

LOM 466-999

——— END OF TASK ———

TASK 44-35-00-800-801-001

5. Set Maintenance Aircraft Information

A. General

(1) This task contains the steps to set the system date, time, aircraft tail number, registration and/or serial number.

B. Prepare to set the Aircraft Information

SUBTASK 44-35-00-440-008-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

C. Set Maintenance Aircraft Information

SUBTASK 44-35-00-820-004-001

(1) Do these steps to set aircraft information:

(a) On the CABIN MAINTENANCE screen, open the System Status folder, then push Maint Aircraft Information.

1) Make sure that the MAINT AIRCRAFT INFORMATION screen is shown.

(b) On the MAINT AIRCRAFT INFORMATION screen, push the applicable DATE/TIME text field or AIRCRAFT INFO text field.

(c) Select the applicable date/time or enter the applicable aircraft information.

1) Make sure that you enter the correct data.

2) Push the OK button in the pop up window.

(d) Touch the Navigation button to go back to CABIN MAINTENANCE Main Menu.

(e) Push the MAIN MENU button to log out of the Cabin Maintenance screens.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-009-001

(1) Do this task to stop the GCS system if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-35-00-400-803-001

6. Load Satellite Coverage or Portal Content

A. General

(1) This procedure contains the steps to load Satellite Coverage/Portal Content.

B. Location Zones

Zone	Area
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. Prepare for the Satellite Coverage Content Load

SUBTASK 44-35-00-440-009-001

(1) Do this task to activate the Global Communications Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

D. Load the Satellite Coverage Content

SUBTASK 44-35-00-470-006-001

(1) Do these steps to load the Satellite Coverage or Portal content from a USB device:

(a) At the Crew Terminal, on the SYSTEM STATUS screen, make sure that the status for all LRUs is green.

(b) On the CABIN MAINTENANCE screen, open the System Tests folder, push Quick Test.

1) Make sure that there are no head-end equipment errors.

2) Do not continue the media/content load if there are errors.

(c) Install the USB device into the front USB port of the control panel.

1) Make sure that a pop-up message is shown.

(d) From the pop-up message, push the OK button.

1) Make sure that the pop-up message is closed.

(e) On the CABIN MAINTENANCE screen, open the Loading folder, push Load Software.

(f) On the LOAD SOFTWARE screen, select the USB Drive button.

1) Make sure that the Status column shows NA for the software components to be loaded.

(g) On the Status column, push the Get Software List button.

1) Make sure that the LOAD SOFTWARE screen shows the available software on the USB device.

2) Make sure that the contents that follow are shown:

a) bc_sat_cov_ems

b) gcs_cds_modem_opts

(h) On the LOAD SOFTWARE screen, push the Load All button.

1) Make sure that the software begins to load.

(i) If the selected software is already loaded in the system, the FORCE SOFTWARE LOAD screen is shown.

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(j) On the FORCE SOFTWARE LOAD screen is shown, push the Yes button to overwrite the existing software.

1) Make sure that the progress pop-up is shown.

2) Make sure that the software load is complete.

(k) On the LOAD SOFTWARE screen, push the Close/Cancel button.

1) Make sure that a pop-up message shows that the BC reboot is complete.

SUBTASK 44-35-00-040-025-001

(2) Do this task to deactivate the GCS: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

SUBTASK 44-35-00-440-026-001

(3) Do this task to activate the GCS: Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

NOTE: The LRUs reboot several times. Approximately 20 minutes are necessary for the head-end LRU reboot. The seat stability can take longer.

SUBTASK 44-35-00-710-020-001

(4) After the system becomes stable, do these steps to check the Content Status:

(a) From the CABIN MAINTENANCE screen, open the Configuration folder, push the Content Status button.

1) Make sure that the Media and Content Reporting screen is shown.

2) Make sure that the part numbers of the installed media files are the same as the part numbers of the media files in the configuration document for the airplane.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-010-001

(1) Remove the USB storage device from the Crew Terminal.

SUBTASK 44-35-00-040-011-001

(2) Do this task to stop the GCS System if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

NOTE: Do this task if you are at the end of the test sequence.

——— END OF TASK ———

TASK 44-35-00-800-802-001

7. Reconfigure the Wireless Access Point

A. General

(1) This task contains the steps to reconfigure and check the status of each Wireless Access Point (WAP).

B. References

Reference	Title
44-21-00-800-808	Setting Air-to-Ground Mode (P/B 201)

C. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

ECCN 9E991 BOEING PROPRIETARY - See title page for details

D. Prepare for the Reconfiguration of the WAP

SUBTASK 44-35-00-440-010-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

SUBTASK 44-35-00-860-019-001

(2) Make sure that the airplane is on ground mode. Refer to this task if necessary: Setting Air-to-Ground Mode, TASK 44-21-00-800-808.

E. Procedure

SUBTASK 44-35-00-860-020-001

(1) Do these steps to reconfigure the WAP:

(a) On the CABIN MAINTENANCE screen, open the eXConnect Maint folder, then push Wi-Fi Status.

1) Make sure that the WI-FI STATUS screen is shown.

(b) On the WI-FI STATUS screen, in the SELECT column, touch the check box of the WAP to reconfigure.

1) Make sure that the checkbox for the WAP is checked.

2) Make sure that the status of the selected WAP(s) show as No Status.

(c) On the WI-FI STATUS screen, push the Reconfigure button.

1) Make sure that the pop-up screen shows RECONFIGURATION COMPLETE.

(d) On the WAP RECONFIGURATION COMPLETE pop-screen, push the OK button.

1) Make sure that after five minutes, the WI-FI STATUS screen auto-refreshes and shows the latest status of the WAPs.

2) Make sure that the STATUS shows Disabled for the reconfigured WAPs.

(e) Push the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

(f) Log out of the Cabin Maintenance screens.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-012-001

(1) Do this task to stop the GCS System if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

END OF TASK

TASK 44-35-00-800-803-001

8. Wireless Access Point Radio Control

A. General

(1) This task contains the steps to check, enable, or disable the status of each Wireless Access Point (WAP) radio.

B. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

ECCN 9E991 BOEING PROPRIETARY - See title page for details

C. Prepare for the Status Check of the Wireless Access Point Radio

SUBTASK 44-35-00-440-011-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

D. Procedure

SUBTASK 44-35-00-860-021-001

(1) Do these steps to enable or disable WAP radio status:

(a) On the CABIN MAINTENANCE screen, open the eXConnect Maint folder, push the WAP Radio Control.

1) Make sure that the WAP RADIO CONTROL screen is shown.

(b) On the WAP RADIO CONTROL screen, push the check boxes for the WAP radio to enable or disable.

1) Make sure that the check boxes for the WAP radios is checked.

(c) Push the Enable button to enable or the or Disable button to disable.

1) Make sure that the WAP radio status shows as Enabled or Disabled (as selected).

(d) Touch the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

(e) Log out of the CABIN MAINTENANCE screens.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-013-001

(1) Do this task to stop the GCS System if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

——— END OF TASK ———

TASK 44-35-00-800-804-001

9. Change Wireless Access Point Transmit Power

A. General

(1) This task contains the steps to check or change the Wireless Access Point (WAP) Transmit (TX) power settings.

B. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

C. Prepare to Check or Change WAP Transmit Power Settings

SUBTASK 44-35-00-440-012-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

D. Procedure

SUBTASK 44-35-00-860-022-001

(1) Do these steps to Check or Change WAP Transmit Power Settings:

(a) On the CABIN MAINTENANCE screen, open the eXConnect Maint folder, push the WAP TX Power button.

1) Make sure that the WAP TX POWER screen is shown.

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(b) On the WAP TX POWER screen, enter the new value for the WAP transmit power, then push the SAVE button.

NOTE: Out-of-range values entered will be automatically changed to the closest value within the acceptable range.

1) Make sure a pop-up message shows that the new transmit power settings for the WAPs are saved.

(c) On the WAP TX POWER screen, make sure that the current TX power value is the same as the transmit power entered.

(d) Touch the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

(e) Log out of the CABIN MAINTENANCE screens.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-014-001

(1) Do this task to stop the GCS System if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

END OF TASK

TASK 44-35-00-700-804-001

10. Satellite Status Check

A. General

(1) This task contains the steps to check the status of the satellite.

B. Prepare for the Satellite Status Check

SUBTASK 44-35-00-440-013-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

C. Procedure

SUBTASK 44-35-00-710-013-001

(1) Do these steps to check the satellite status:

(a) On the CABIN MAINTENANCE screen, open the eXConnect Maint folder, then select Satellite Status.

1) Make sure that the SATELLITE STATUS screen shows.

(b) On the SATELLITE STATUS screen, check the satellite status data as necessary.

(c) Push the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

D. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-015-001

(1) Do this task to stop the GCS System if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

END OF TASK

TASK 44-35-00-800-805-001

11. eXConnect System Commissioning

A. General

(1) This task contains the steps to commission the Global Communication Suite (GCS).

ECCN 9E991 BOEING PROPRIETARY - See title page for details

B. References

Reference	Title
34-21-00-820-801	Air Data Inertial Reference System - Alignment from the FMC CDU (P/B 201)
34-21-00-820-802	Air Data Inertial Reference System - Alignment from the ISDU (P/B 201)
44-21-00-800-808	Setting Air-to-Ground Mode (P/B 201)

C. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

D. Prepare for the Commissioning of the GCS

SUBTASK 44-35-00-890-003-001

(1) Do these steps to prepare for the commissioning of the GCS:

(a) Make sure that the airplane is outside the hangar with line of sight to the satellite.

NOTE: Contact Panasonic Mission Control Center (MCC) (phone number +1-425-415-9800) for satellite location and XID number if necessary.

(b) Coordinate with Air-Traffic Control as required by the ground operation agreement.

SUBTASK 44-35-00-440-014-001

(2) Do this task to start the GCS: Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

SUBTASK 44-35-00-860-023-001

(3) Make sure that the airplane is on ground mode. Refer to this task if necessary: Setting Air-to-Ground Mode, TASK 44-21-00-800-808.

SUBTASK 44-35-00-820-008-001

(4) Do this task to align the Air Data Inertial Reference System: Air Data Inertial Reference System - Alignment from the ISDU, TASK 34-21-00-820-802 or Air Data Inertial Reference System - Alignment from the FMC CDU, TASK 34-21-00-820-801.

SUBTASK 44-35-00-710-014-001

(5) Make sure that the antenna offset parameters have been set. Do this task if necessary: Set Antenna Offset Information, TASK 44-35-00-800-806-001.

SUBTASK 44-35-00-860-024-001

(6) Make sure that the GCS XID Number and Aircraft Tail Number have been assigned and provided.

(a) Refer to this task to set the Maintenance Aircraft Information if necessary: Set Maintenance Aircraft Information, TASK 44-35-00-800-801-001.

E. Commissioning of the GCS

SUBTASK 44-35-00-820-006-001

(1) Do these steps to commission the GCS:

(a) On the CABIN MAINTENANCE screen, open the eXConnect Maint folder, then push the Commissioning button.

1) Make sure that the COMMISSIONING screen is shown.

(b) On the COMMISSIONING screen, make sure that the XID and/or AC Tail numbers are correct.

1) If the XID and/or AC Tail fields are blank, enter the data.

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(c) On the COMMISSIONING screen, push the Start Commissioning button.

1) Make sure a pop-up window with the antenna offsets is shown.

(d) On the pop-up message, push the Continue button.

1) Make sure that the commissioning process starts.

NOTE: Approximately 10-20 minutes are necessary for process to complete.

2) Make sure that a pop-up message shows that the commissioning is complete and a reboot is required.

(e) On the COMMISSIONING screen, make sure that the Commissioning Complete status is shown.

NOTE: The Broadband Controller (BC) and other LRUs reboot automatically during the commissioning process.

1) Make sure that the CABIN MAINTENANCE screen shows after the system stabilizes after the reboot.

(f) On the CABIN MAINTENANCE screen, open the eXConnect Maint folder, push the Commissioning button.

1) Make sure that the COMMISSIONING screen is shown.

(g) On the Commissioning screen, make sure that the correct XID and/or AC Tail number shows.

(h) Push the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

(i) Contact the MCC (phone number 1-425-415-9800) for post commissioning verification.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-016-001

(1) Do this task to stop the GCS System if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

END OF TASK

TASK 44-35-00-800-806-001

12. Set Antenna Offset Information

A. General

(1) This task contains the steps to set the antenna offset information.

B. References

Reference	Title
44-21-00-800-808	Setting Air-to-Ground Mode (P/B 201)

C. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

D. Prepare to set the Antenna Offset Information

SUBTASK 44-35-00-440-015-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

SUBTASK 44-35-00-860-026-001

(2) Make sure that the airplane is on ground mode. Refer to this task if necessary: Setting Air-to-Ground Mode, TASK 44-21-00-800-808.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

E. Procedure

SUBTASK 44-35-00-820-007-001

(1) Do these steps to set the antenna offset information:

(a) On the CABIN MAINTENANCE screen, open the eXConnect Maint folder, then push EMS Antenna Installation.

1) Make sure that the EMS ANTENNA INSTALLATION screen is shown.

(b) On the EMS ANTENNA INSTALLATION screen, check the current Offset Values for the Broadband Antenna (BA).

(c) The EMS Antenna Offset Limits show below New Offset Values (Yaw, Pitch and Roll) data entry boxes.

(d) On the EMS ANTENNA INSTALLATION screen, update the parameters as needed, then push APPLY.

NOTE: Offset Values can be found either on the aircraft data plate or customer antenna install alignment records.

1) Make sure that you see a pop-up window to make sure that the antenna is not in transmit mode.

(e) On the pop-up window, push the Continue button.

1) Make sure that you see the pop-up window message: Antenna offsets successfully applied for testing.

NOTE: The new parameters are not saved at this time.

(f) On the pop-up window message, push the Save button.

1) Make sure that you see a pop-up window to make sure that the antenna is not in transmit mode.

(g) On the pop-up window, push OK.

1) The offsets are saved.

(h) Push the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-017-001

(1) Do this task to stop the GCS System if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

END OF TASK

TASK 44-35-00-700-805-001

13. Check Antenna Information

A. General

(1) This task contains the steps to check the antenna position information.

B. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

C. Prepare to Check the Antenna Information

SUBTASK 44-35-00-440-016-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

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D. Procedure

SUBTASK 44-35-00-710-015-001

(1) Do these steps to check the antenna position information:

(a) On the CABIN MAINTENANCE screen, open the eXConnect Maint folder, then push the Antenna Info button.

1) Make sure that the ANTENNA INFO screen is shown.

(b) Push the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

(c) Log out of the Cabin Maintenance screens.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-018-001

(1) Do this task to stop the GCS System if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

END OF TASK

TASK 44-35-00-800-807-001

14. Set eXConnect System Services

A. General

(1) This task contains the steps to check and enable or disable eXConnect Services.

B. Location Zones

Zone	Area
231	Forward Passenger Compartment - Forward Entry Door to Sta 663.75 - Left

C. Prepare to Check, Enable or Disable eXConnect Services

SUBTASK 44-35-00-440-017-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

D. Check, Enable or Disable eXConnect Services

SUBTASK 44-35-00-710-016-001

(1) Do these steps to Check, Enable or Disable eXConnect Services:

(a) On the CABIN MAINTENANCE screen, open the eXConnect Maint folder, then push eXConnect Services.

1) Make sure that the EXCONNECT SERVICES screen is shown.

(b) On the EXCONNECT SERVICES screen, set the required status of services to Enabled or Disabled as required, then push the Save button.

1) Make sure that the status of the services enabled or disabled are set as required.

(c) Push the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-019-001

(1) Do this task to stop the GCS System if it is not necessary to continue operation: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

GLOBAL COMMUNICATIONS SUITE - ADJUSTMENT/TEST

1. General

A. This procedure has these tasks:

(1) Global Communications Suite - Quick Test

(2) Global Communications Suite - All Test

(3) Global Communications Suite - Operational Test

(4) Global Communications Suite Internet Connectivity - Operational Test

(5) Global Communications Suite Intranet Connectivity - Operational Test

TASK 44-35-00-700-810-001

2. Global Communications Suite - Quick Test

A. General

(1) This task contains the steps for the Quick Test part of the BITE (Built-In-Test Equipment) test for the Global Communications Suite (GCS).

(2) The Quick Test initiates a display of captured faults reported in the background during normal GCS operation.

(3) The Quick Test is a non-intrusive test, allowing the GCS to continue operating normally.

(4) The GCS gathers LRU BITE status on a regularly scheduled interval, compiling the results for viewing at the Crew Terminal upon initiation of a Quick Test.

B. References

Reference	Title
44-35-00-040-801-001	Global Communications Suite - Deactivation (P/B 201)
44-35-00-440-801-001	Global Communications Suite - Activation (P/B 201)

C. Prepare for the Quick Test

SUBTASK 44-35-00-440-024-001

(1) Do this task to start the GCS: Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

D. Quick Test

SUBTASK 44-35-00-740-001-001

(1) To do the Quick Test, do the steps that follow:

NOTE: The Quick Test continuously runs in the background from power on to power off. Each GCS LRU maintains its BITE status, making available any faults encountered to its parent LRU. The parent LRU gathers LRU fault status on a regularly scheduled interval, providing the BITE server with a historic collection of LRU faults. When conducting a Quick Test, the BITE server interprets the gathered data, compiling the data into a report for viewing or off loading at the Crew Terminal.

(a) On the CABIN MAINTENANCE screen at the Crew Terminal, open the System Tests folder, push Quick Test.

1) Make sure that the QUICK TEST screen is shown.

(b) On the QUICK TEST screen, push Details button.

1) Make sure that the QUICK TEST DETAILS screen is shown.

(c) From the QUICK TEST DETAILS screen, review the details.

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(d) Push the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-023-001

(1) Do this task if necessary, to deactivate the GCS at the end of the test sequence: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

——— END OF TASK ———

TASK 44-35-00-700-811-001

3. Global Communications Suite - All Test

A. General

(1) This task contains the steps for the All Test part of the BITE (Built-In-Test Equipment) test for the Global Communications Suite (GCS).

(2) The All Test identifies comprehensive faults of the current flight and is an intrusive test.

(3) Do this test when comprehensive results are required.

B. References

Reference	Title
44-35-00-040-801-001	Global Communications Suite - Deactivation (P/B 201)
44-35-00-440-801-001	Global Communications Suite - Activation (P/B 201)

C. Prepare for the All Test

SUBTASK 44-35-00-440-025-001

(1) Do this task to start the GCS: Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

D. All Test

SUBTASK 44-35-00-740-002-001

(1) To do the All Test, do the steps that follow:

NOTE: When an All Test is done, the Broadband Communication system LRUs stop functioning in whatever mode they are in, then they do a self-test analysis, report the faults, and then pick up from whatever point they stopped functioning.

(a) On the CABIN MAINTENANCE screen at the Crew Terminal, open the System Tests folder, push the Start All Test.

1) Make sure that the ALL TEST screen is shown.

(b) On the ALL TEST screen, review the details.

(c) Push the navigation icon to return to the CABIN MAINTENANCE Main Menu.

SUBTASK 44-35-00-211-001-001

(2) To review the All Test results, do the steps that follow:

(a) On the CABIN MAINTENANCE screen, open the System Test folder, then push the Review All Test.

1) Make sure that the ALL TEST screen is shown.

(b) From the ALL TEST screen, push Details button.

1) Make sure that the ALL TEST DETAILS screen is shown.

(c) On the ALL TEST DETAILS screen, review the details.

(d) Push the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

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E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-024-001

(1) Do this task if necessary, to deactivate the GCS at the end of the test sequence: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

——— END OF TASK ———

TASK 44-35-00-700-802

4. Global Communications Suite - Operational Test

A. References

Reference	Title
44-35-00-040-801-001	Global Communications Suite - Deactivation (P/B 201)
44-35-00-440-801-001	Global Communications Suite - Activation (P/B 201)

B. Location Zones

Zone	Area
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. Prepare for the Test

SUBTASK 44-35-00-440-028-001

(1) Do this task to start the GCS: Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

SUBTASK 44-35-00-860-002

(2) Do these steps at the IFE control panel to turn on all eXW services:

(a) From the Cabin Crew MAIN MENU screen, select the eXWireless button.

1) Make sure that the EXWIRELESS screen is shown.

(b) From the EXWIRELESS screen, select the Turn On or Turn Off button to toggle from eXW On mode and eXW Off mode.

1) Make sure that the Status/Number for eXWireless, Public Network, Crew Network, and all WAPs are set to ON.

D. Procedure

SUBTASK 44-35-00-710-012

(1) To do the Operational Test, do the steps that follow:

(a) Use a Laptop (or similar device) with Wi-Fi capability and browse the available wireless networks from the connection list.

(b) Connect the laptop to the wireless network.

(c) Using the laptop, open a web browser.

1) Make sure that the portal page is shown.

(d) Using the laptop, stream media from the portal.

1) Make sure that audio is heard and video is shown.

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E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-026-001

(1) Do this task to deactivate the GCS at the end of the test sequence: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

——— END OF TASK ———

TASK 44-35-00-700-808-001

5. Global Communications Suite Internet Connectivity - Operational Test

A. General

(1) This task contains steps to do the internet connectivity test.

B. References

Reference	Title
34-21-00-820-801	Air Data Inertial Reference System - Alignment from the FMC CDU (P/B 201)
34-21-00-820-802	Air Data Inertial Reference System - Alignment from the ISDU (P/B 201)
44-21-00-800-808	Setting Air-to-Ground Mode (P/B 201)
44-35-00-040-801-001	Global Communications Suite - Deactivation (P/B 201)
44-35-00-440-801-001	Global Communications Suite - Activation (P/B 201)
44-35-00-700-804-001	Satellite Status Check (P/B 201)
44-35-00-800-803-001	Wireless Access Point Radio Control (P/B 201)
44-35-00-800-807-001	Set eXConnect System Services (P/B 201)

C. 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)

D. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

E. Prepare for the Internet Connectivity Test

SUBTASK 44-35-00-840-001-001

(1) Do these steps to prepare for the Internet Connectivity Test:

(a) Make sure that the airplane is parked outside the hangar with line of sight to the satellite.

NOTE: Contact Panasonic Mission Control Center (MCC) (phone number +1-425-415-9800) for satellite location.

(b) Coordinate with Air-Traffic Control as required by the ground operation agreement.

(c) Make sure that the GCS XID Number and Aircraft Tail Number have been assigned and provided.

(d) Make sure to follow all precautions listed in the Global Communications Suite Activation task (Global Communications Suite - Activation, TASK 44-35-00-440-801-001).

(e) Make sure that personnel are not at work on top of the fuselage.

(f) Make sure that ground personnel do not enter the area within 72 ft (22 m) of the radome.

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(g) Make sure that there are no other airplanes that is refueling, taxiing, waiting for take off, or on approach within 328 ft (100 m) of the radome.

SUBTASK 44-35-00-860-025-001

(2) Make sure that the airplane is on ground mode. Refer to this task if necessary: Setting Air-to-Ground Mode, TASK 44-21-00-800-808.

SUBTASK 44-35-00-440-018-001

(3) Do this task to start the Global Communications Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

SUBTASK 44-35-00-820-009-001

(4) Do this task to align the Air Data Inertial Reference System: Air Data Inertial Reference System - Alignment from the ISDU, TASK 34-21-00-820-802 or Air Data Inertial Reference System - Alignment from the FMC CDU, TASK 34-21-00-820-801.

SUBTASK 44-35-00-440-019-001

(5) Do this task to enable all Wireless Access Points (WAPs): Wireless Access Point Radio Control, TASK 44-35-00-800-803-001.

SUBTASK 44-35-00-440-020-001

(6) Do this task to enable all eXConnect Services: Set eXConnect System Services, TASK 44-35-00-800-807-001.

SUBTASK 44-35-00-860-032-001

(7) If installed on the stowage box, set the GND TEST switch to the OVERRIDE position.

F. Internet Connectivity Test

SUBTASK 44-35-00-710-017-001

WARNING DO NOT TRANSMIT DURING A REFUEL OR DEFUEL PROCEDURE. AN EXPLOSION CAN OCCUR AND CAUSE INJURY TO PERSONNEL AND DAMAGE TO THE AIRPLANE.

(1) Do the Internet Connectivity test:

(a) Do the Satellite Status Check. Refer to this task if necessary: Satellite Status Check, TASK 44-35-00-700-804-001.

1) On the SATELLITE STATUS screen, make sure that the Satellite Transmit status is shown as “Transfer”.

(b) Use laptop, STD-13611 or equivalent with WiFi capability to browse the available wireless networks from the connection list.

1) Make sure that wireless network associated with your airline is shown.

(c) Connect the laptop, STD-13611 to the wireless network associated with your airline.

1) Make sure that the laptop, STD-13611 is assigned an IP address.

(d) Use the laptop, STD-13611 to open a web browser.

1) Make sure that the portal page of the network associated with your airline is shown.

(e) From the portal page, set up an internet connection.

NOTE: A valid account from the netwok's internet provider is necessary.

(f) Connect to any unblocked or unfiltered website.

1) Make sure that the website's home page is shown.

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(g) Browse and connect to any unblocked or unfiltered media streaming website to stream media.

1) Make sure that you see the video and hear the video audio.

(h) Touch the Navigation icon to return to the CABIN MAINTENANCE Main Menu.

(i) Log out of the Cabin Maintenance screens.

(j) Power off and remove the laptop, STD-13611.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-020-001

(1) If you are at the end of the test sequence, do this task to deactivate the GCS system: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

——— END OF TASK ———

TASK 44-35-00-700-809-001

6. Global Communications Suite Intranet Connectivity - Operational Test

A. General

(1) This task contains steps to do the intranet connectivity test.

B. References

Reference	Title
44-35-00-040-801-001	Global Communications Suite - Deactivation (P/B 201)
44-35-00-440-801-001	Global Communications Suite - Activation (P/B 201)
44-35-00-800-803-001	Wireless Access Point Radio Control (P/B 201)

C. 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)

D. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

E. Prepare for the Intranet Connectivity Test

SUBTASK 44-35-00-440-021-001

(1) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

SUBTASK 44-35-00-440-022-001

(2) Do this task to enable all Wireless Access Points (WAPs): Wireless Access Point Radio Control, TASK 44-35-00-800-803-001.

F. Intranet Connectivity Operational Test

SUBTASK 44-35-00-710-018-001

(1) Do the Intranet Connectivity Operational test:

(a) Use laptop, STD-13611 or equivalent with WiFi capability to browse the available wireless networks from the connection list.

(b) Connect the laptop, STD-13611 to the applicable wireless network.

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(c) Open a web browser on the laptop, STD-13611.

1) Make sure that the applicable portal page shows.

(d) Exercise customer features to make sure that they function correctly.

(e) Disable all the WAPs. If necessary, refer to Wireless Access Point Radio Control, TASK 44-35-00-800-803-001.

1) Make sure that the intranet connection is lost.

(f) Power off and remove the laptop, STD-13611.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-021-001

(1) If you are at the end of the test sequence, do this task to deactivate the GCS system: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

——— END OF TASK ———

TASK 44-35-00-700-803-001

7. Global Communications Suite - System Test

A. General

(1) The GCS system test contains these procedures:

(a) A IFE/WIFI Power and Frequency Test

(b) A WAP Radio Test

B. References

Reference	Title
44-35-00-040-801-001	Global Communications Suite - Deactivation (P/B 201)
44-35-00-440-801-001	Global Communications Suite - Activation (P/B 201)

C. IFE/WIFI Power and Frequency Test

SUBTASK 44-35-00-730-001-001

(1) To do the IFE/WIFI Power and Frequency test, do the steps that follow:

(a) Make sure that the entertainment system is initialized Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

(b) From the CABIN MAINTENANCE screen, select the eXW Maint button.

1) Make sure that the eXW MAINT screen is displayed.

(c) From the eXW MAINT screen, select the WI-FI Status button.

1) Make sure that the Wi-Fi STATUS screen is displayed.

(d) From the Wi-Fi STATUS screen, select each checkbox from the SELECT column.

(e) From the bottom of the Wi-Fi STATUS screen, select the RECONFIGURE button.

1) Make sure that a message "Please wait WAP reconfiguration is in progress" is displayed.

NOTE: WAP reconfiguration could take approximately 5 minutes.

2) Make sure that the message "Requested WAPs configured successfully. Please wait for status to refresh" is displayed.

(f) Select the OK button.

NOTE: Wait up to 3 minutes for the WI-FI STATUS screen to update before continuing to the next step.

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1) Make sure that the correctly configured WI-FI STATUS screen is displayed.

(g) Select the NAVIGATION icon at the top of the WI-FI STATUS screen.

1) Make sure that the eXW MAINT menu is displayed.

(h) From the eXW MAINT menu, select WAP TX POWER button.

1) Make sure that the correctly configured WAP TX POWER screen is displayed.

(i) Select the NAVIGATION icon at the top of the WAP TX POWER screen.

1) Make sure that the eXW MAINT menu is displayed.

(j) From the eXW MAINT menu, select RADIO CONTROL button.

1) Make sure that the correctly configured WAP RADIO CONTROL screen is displayed.

(k) Select the NAVIGATION icon at the top of the WAP RADIO CONTROL screen.

1) Make sure that the eXW MAINT menu is displayed.

D. WAP Radio Test

SUBTASK 44-35-00-730-002-001

(1) To do the WAP Radio test, do the steps that follow:

(a) Connect the USB Wi-Fi adapter in any available USB slot on the functional test laptop.

(b) From the eXW MAINT menu on the CP, select WAP RADIO CONTROL button.

1) Make sure that the WAP RADIO CONTROL screen is displayed.

(c) From the WAP RADIO CONTROL screen, select an applicable WAP # / RADIO # check box.

NOTE: The check box is successfully selected when the check symbol is displayed.

(d) Select the ENABLE button at the bottom of the WAP RADIO CONTROL screen.

1) Make sure that the status of the selected WAP # / RADIO # is ENABLE.

2) Make that all other WAP Radios is DISABLED.

3) Make sure that the applicable EXW SSID appears in the "Wireless Network Connection" list on the functional test laptop.

NOTE: It could take up to a minute for the applicable EXW SSID to appear on the laptop.

4) Make sure that the disabled EXW SSID is not displayed in the "Wireless Network Connection" list on the functional test laptop.

(e) Do an operational test of the Global Communication Suite: Global Communications Suite - Operational Test, TASK 44-35-00-700-802.

(f) From the WAP RADIO CONTROL screen, select the enabled WAP #/ RADIO # check box.

(g) Select the DISABLE button at the bottom of the WAP RADIO CONTROL screen.

1) Make that all WAP Radios is DISABLED.

2) Make sure that no EXW SSID appears in the "Wireless Network Connection" list on the functional test laptop.

NOTE: It could take up to a minute for the applicable EXW SSID to disappear on the laptop.

(h) Select the NAVIGATION icon at the top of the WAP RADIO CONTROL screen.

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1) Make sure that the eXW MAINT menu is displayed.

(i) Repeat the test for each applicable WAP #/ RADIO # configuration.

E. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-00-040-027-001

(1) Do this task to deactivate the GCS system: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

FILE SERVER (FS) - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) A removal of the File Server (FS).

(2) An installation of the FS.

TASK 44-35-08-000-801

2. File Server Removal

A. General

(1) This task is the removal procedure for the File Server (FS).

(2) The File Server is located in the E8-1 rack in the Fwd EE bay.

(3) When you remove the FS, do not supply electrical power to the system.

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right

D. Prepare for the Removal

SUBTASK 44-35-08-860-001

(1) Do these steps to prepare the File Server for the removal:

(a) Open this circuit breaker and install safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC

E. File Server Removal

SUBTASK 44-35-08-020-001

CAUTION

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) Before you touch the File Server, do the task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

(2) To remove the File Server, do the task: E/E Box Removal, TASK 20-10-07-000-801.

(3) Do the task: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804.

END OF TASK

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LRU Installation
Figure 401/44-35-08-990-801

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TASK 44-35-08-400-801

3. File Server Installation

A. General

(1) This task is the installation procedure for the File Server (FS).

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
20-40-12-000-804	Conductive Dust Cap and Connector Cover Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right

D. Prepare for the Installation

SUBTASK 44-35-08-860-002

(1) Make sure that this circuit breaker is open:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC

E. File Server Installation

SUBTASK 44-35-08-420-001

CAUTION DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) Before you touch the FS, do the task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802

(2) Do the task: Conductive Dust Cap and Connector Cover Removal, TASK 20-40-12-000-804

(3) To install the FS, do the task: E/E Box Installation, TASK 20-10-07-400-801

F. File Server Installation Test

SUBTASK 44-35-08-860-003

(1) Do these steps to make sure that power to the LRU is ON:

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC

(b) Make sure that the Cabin Wireless switch at the Fwd Attendant Panel is ON.

SUBTASK 44-35-08-720-001

(2) Do the File Server test:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(a) Do a Config Check to make sure that all FSs are reporting correctly: Configuration Check, TASK 44-21-00-700-801.

G. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-08-860-004

(1) Do these steps:

(a) Close and secure all the doors.

(b) Put the Cabin Wireless switch to OFF position.

SUBTASK 44-35-08-860-005

(2) If necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

WIRELESS ACCESS POINT (WAP)

1. General

A. This procedure has these tasks:

(1) A removal of the Wireless Access Point (WAP).

(2) An installation of the WAP.

TASK 44-35-10-000-801

2. Wireless Access Point (WAP) - Removal

(Figure 401)

A. General

(1) This task includes the steps to remove the Wireless Access Point (WAP)

B. References

Reference	Title
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (P/B 201)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left
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

D. Prepare for the Removal

SUBTASK 44-35-10-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC

SUBTASK 44-35-10-010-001

(2) Access the WAP by removing the applicable ceiling panels. To remove the ceiling panels, do this task: Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.

E. WAP Removal

SUBTASK 44-35-10-020-001

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) Remove the WAP

(a) Remove the screws and washers that hold the antenna mounting bracket assembly in place.

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(b) Remove the antenna mounting bracket assembly.

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

(c) Disconnect the cable(s).

(d) Remove and retain the screws and washers that hold the WAP in place.

(e) Remove the WAP from its mounting surface.

(f) Do this task: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804.

——— END OF TASK ———

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Wireless Access Point (WAP) Installation
Figure 401/44-35-10-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-35-10-400-801

3. Wireless Access Point (WAP) Installation

(Figure 401)

A. General

(1) This task includes the steps to install the Wireless Access Point (WAP).

B. References

Reference	Title
20-40-12-000-804	Conductive Dust Cap and Connector Cover Removal (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
44-21-00-700-801	Configuration Check (P/B 201)
44-35-00-700-802	Global Communications Suite - Operational Test (P/B 501)

C. Location Zones

Zone	Area
200	Upper Half of Fuselage
221	Passenger Compartment - Aft of Control Compartment to Forward Entry Door - Left
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

D. Prepare for the Installation

SUBTASK 44-35-10-860-002

(1) Make sure that this circuit breaker is open and has safety tag:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC

E. WAP Installation

SUBTASK 44-35-10-420-001

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(1) Install the WAP.

(a) Do a visual inspection and, if necessary, clean the component interface and/or the adjacent area.

(b) Put the WAP in its position on the mounting surface.

(c) Install the screws and washers to attach the WAP to the mounting surface.

(d) Do the task: Conductive Dust Cap and Connector Cover Removal, TASK 20-40-12-000-804.

(e) Connect the cable(s) to the WAP.

(f) Place the antenna mounting bracket assembly in position.

(g) Install the screws and washers to attach the mounting bracket assembly.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-35-10-410-001

(2) Install the ceiling panels. To install the panels, do this task: Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001

SUBTASK 44-35-10-860-003

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC

SUBTASK 44-35-10-710-001

(4) Do the File Server test:

(a) Make sure that the Cabin Wireless switch at the Fwd Attendant Panel is ON.

(b) Do a Config Check to make sure that all WAPs are reporting correctly: Configuration Check, TASK 44-21-00-700-801.

(c) Do a Global Communications Suite Operational Test to make sure that the eXW system is operational: Global Communications Suite - Operational Test, TASK 44-35-00-700-802.

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-10-860-004

(1) Do these steps:

(a) Close and secure all the doors.

(b) Put the Cabin Wireless switch to OFF position.

SUBTASK 44-35-10-860-005

(2) If necessary do this task: Remove Electrical Power, TASK 24-22-00-860-812

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

KU-BAND ANTENNA - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) A removal of the KU-Band Antenna

(2) An installation of the KU-Band Antenna.

B. The KU-Band Antenna is also known as the Broadband Antenna (BA).

TASK 44-35-11-000-801

2. KU-Band Antenna Removal

(Figure 401 and Figure 402)

A. General

(1) This task includes the steps to remove the KU-Band Antenna.

NOTE: The antenna weight is 79.25 lb (35.95 kg).

(2) The KU-Band Antenna is located on the upper fuselage at Station 727.

(3) The KU-Band Antenna is also known as the Broadband Antenna (BA).

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)
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (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-13472	Assembly - Fixture, Handling Part #: 1007291-2 Supplier: 0FF57 Opt Part #: 1007291-1 Supplier: 0FF57
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

D. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - 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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

E. Prepare for the Removal

SUBTASK 44-35-11-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA

SUBTASK 44-35-11-020-001

(2) Remove the broadband radome, do this task: TASK 53-54-00-000-801.

SUBTASK 44-35-11-010-001

WARNING

TO PREVENT INJURY, USE PROPER FALL PREVENTION METHODS AND EQUIPMENT WHEN WORKING ON TOP OF THE FUSELAGE.

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 44-35-11-480-001

(4) Attach a handling fixture assembly, SPL-13472, to the KU-Band antenna [1] (Figure 402).

(a) Install the handling fixture screws [24] that attach the handling fixture assembly, SPL-13472, to the KU-Band antenna [1].

SUBTASK 44-35-11-480-002

(5) Attach the broadband antenna removal/installation equipment, C44001-56 or -61, SPL-15117, to the handling fixture assembly, SPL-13472 (Figure 402).

(a) Install the screw pin shackles [25] to the handling fixture assembly, SPL-13472].

F. KU-Band Antenna Removal

SUBTASK 44-35-11-020-002

(1) Do these steps to remove the KU-Band antenna [1]:

(a) Remove the lockwire from the TX (P2) [2] and RX (P1) [3] (TASK 20-10-44-000-801).

(b) Remove the TX (P2) [2] and RX (P1) [3] from the KU-Band antenna [1].

(c) Remove the nut [7], washer [8], and bonding jumper [9] from the terminal lug on the adapter plate [23].

(d) Remove the lockwire from the TX (P3) [11] and RX (P4) [12].

(e) Disconnect the TX (P3) [11] and RX (P4) [12] from the airplane.

(f) Disconnect the P5 [17] and P6 [18] from the airplane.

(g) Disconnect the A1-P1 [4] from the bracket.

(h) Disconnect the J1 [14] from the bracket.

(i) Remove the nut [16], washer [26], and bonding strap [15] from the bracket.

(j) Remove the bolts [5] and washers [6] from the KU-Band antenna [1] that attach to the adapter plate [23].

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(k) Remove the screws [20], clamps [21], and clamp [22] that attach the A1-P1 [4] to the adapter plate [23].

(l) Remove the screws [20] and clamps [19] that attach the cable assembly, antenna coax [10] and cable assembly, LTG arrestor [13] to the adapter plate [23].

(m) Carefully lift the KU-Band antenna [1] from the adapter plate [23].

SUBTASK 44-35-11-910-002

(2) Do this task to install protective covers on the electrical connectors: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

KU-Band Antenna Installation
Figure 401/44-35-11-990-801 (Sheet 1 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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KU-Band Antenna Installation
Figure 401/44-35-11-990-801 (Sheet 2 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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KU-Band Antenna Installation
Figure 401/44-35-11-990-801 (Sheet 3 of 3)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

3047055 S0000813550_V1

Broadband Antenna Handling Fixture Assembly
Figure 402/44-35-11-990-803

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-35-11-400-801

3. KU-Band Antenna Installation

(Figure 401 and Figure 402)

A. General

(1) This task includes the steps to install the KU-Band Antenna.

NOTE: The antenna weight is 79.25 lb (35.95 kg).

(2) The KU-Band Antenna is located on the upper fuselage at Station 727.

(3) The KU-Band Antenna is also known as the Broadband Antenna (BA).

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)
44-21-00-700-801	Configuration Check (P/B 201)
44-35-00-040-801-001	Global Communications Suite - Deactivation (P/B 201)
44-35-00-440-801-001	Global Communications Suite - Activation (P/B 201)
44-35-00-700-808-001	Global Communications Suite Internet Connectivity - Operational Test (P/B 501)
44-35-00-700-810-001	Global Communications Suite - Quick Test (P/B 501)
53-54-00-400-801	Broadband Radome Installation (P/B 401)
SWPM 20-20-00	ELECTRICAL BONDING PROCESSES
SWPM 20-20-10 Paragraph 4.D	Category 2 Fay Sealed Pre-Installed Ground Stud Assembly

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-13472	Assembly - Fixture, Handling Part #: 1007291-2 Supplier: 0FF57 Opt Part #: 1007291-1 Supplier: 0FF57
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

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D. Consumable Materials

Reference	Description	Specification
A50110	Sealant - Fuel Tank	BMS5-45 Class B-2
A50155	Sealant - Fuel Tank	BMS5-45 Class C
A50231	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class B
A50296	Sealant - Pressure And Environmental - Chromate Type	BMS5-95 Class C
B00184	Solvent - Presealing, Cleaning Solvent	BMS11-7
G00034	Cotton Wiper - Process Cleaning Absorbent Wiper (Cheesecloth, Gauze)	AMS3819 Class 1 Grade A or B Form 1 (Supersede BMS15-5 CL A)
G01048	Lockwire - MS20995C32, Corrosion Resistant Steel - 0.032 Inch (0.8128 mm) Diameter	NASM20995
G50136	Compound - Corrosion Inhibiting, Non-drying Paste	BMS3-38
G50142	Lockwire - MS20995C15, Corrosion Resistant Steel - 0.015 Inch (0.381 mm) Diameter	NASM20995

E. Expendables/Parts

AMM Item	Description	AIPC Reference	AIPC Effectivity
1	KU-Band antenna	44-35-51-07-075	LOM 466-999

F. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - 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

G. Prepare for the Installation

SUBTASK 44-35-11-860-003

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA

SUBTASK 44-35-11-910-003

WARNING

BE CAREFUL WHEN YOU MOVE THE COMPONENT. THE COMPONENT IS HEAVY. INJURIES TO PERSONS CAN OCCUR.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

(WARNING PRECEDES)

> **WARNING** TO PREVENT INJURY, USE PROPER FALL PREVENTION METHODS AND EQUIPMENT WHEN WORKING ON TOP OF THE FUSELAGE.

(2) Do this task to prepare for the installation of the KU-Band antenna [1]: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-35-11-940-001

(3) Make sure that the adapter plate [23] is correctly installed on the airplane and is ready to receive the KU-Band antenna [1].

SUBTASK 44-35-11-910-005

(4) Make sure that the KU-Band antenna [1] and adapter plate [23] are clean and free of unwanted materials.

SUBTASK 44-35-11-480-003

(5) Attach a handling fixture assembly, SPL-13472, to the KU-Band antenna [1] (Figure 402).

(a) Install the handling fixture screws [24] that attach the handling fixture assembly, SPL-13472, to the KU-Band antenna [1].

SUBTASK 44-35-11-480-004

(6) Attach a broadband antenna removal/installation equipment, C44001-56 or -61, SPL-15117, to the handling fixture assembly, SPL-13472 (Figure 402).

(a) Install the screw pin shackles [25] to the handling fixture assembly, SPL-13472.

H. KU-Band Antenna Installation

SUBTASK 44-35-11-420-001

(1) Apply a faying surface seal with corrosion inhibiting material, G50136, to the bottom of the surface of the KU-Band antenna [1] (SWPM 20-20-00).

SUBTASK 44-35-11-420-002

(2) Do these steps to install the KU-Band antenna [1]:

(a) Carefully lift the KU-Band antenna [1] on the adapter plate [23].

1) Make sure that the arrow label on the KU-Band antenna [1] points forward and rotated 90 degrees.

(b) Install the two locating pins in the forward left and right holes of the KU-Band antenna [1] mount and adapter plate [23].

(c) Install the six bolts [5] and six washers [6].

(d) Remove the two locating pins and install the remaining two bolts [5] and two washers [6].

(e) Tighten the bolts [5] to 78 in-lb (8.8 N·m) - 82 in-lb (9.3 N·m).

(f) Install the bolts [5] and washers [6] that attach the KU-Band antenna [1] to the adapter plate [23].

(g) Install the screws [20], clamps [21], and clamp [22] that attach the A1-P1 [4] to the adapter plate [23].

(h) Install the screws [20] and clamps [19] that attach the cable assembly, antenna coax [10] and cable assembly, LTG arrestor [13] to the adapter plate [23].

(i) Do these steps to install the bonding strap [15]:

ECCN 9E991 BOEING PROPRIETARY - See title page for details

1) Use cotton wiper, G00034, moist in solvent, B00184, to clean the mating surfaces of the bracket, ground stud, nut [16], washer [26], and bonding strap [15].
2) Apply sealant, A50110, or sealant, A50155, or sealant, A50231, or sealant, A50296, to the mating surfaces of the ground stud, washer [26], nut [16], and bonding strap [15] (SWPM 20-20-10 Paragraph 4.D).
3) Install the bonding strap [15], washer [26], and nut [16].
4) Tighten the nut [16] to 28 in-lb (3.2 N·m) - 35 in-lb (4.0 N·m).
   a) Make sure that there is squeeze out around all the interfaces of each component.
5) Measure the electrical bonding resistance between the bonding strap [15] and bracket (SWPM 20-20-00).
   a) Use an intrinsically safe approved bonding meter, COM-1550.
   b) Make sure that the resistance is 0.001 ohm (1.0 milliohms) or less.

(j) Connect the A1-P1 [4] to the bracket.
1) Make sure that the connector red band is not seen.

(k) Connect the J1 [14] to the bracket.

(l) Connect the P5 [17] and P6 [18] to the airplane.
1) Make sure that the connectors red band is not seen.

(m) Connect the TX (P3) [11] to the airplane.
1) Tighten the TX (P3) [11] to 6 in-lb (0.7 N·m) - 10 in-lb (1.1 N·m).

(n) Connect the RX (P4) [12] to the airplane.
1) Tighten the RX (P4) [12] to 15 in-lb (1.7 N·m) - 17 in-lb (1.9 N·m).

(o) Install MS20995C32 lockwire, G01048, on the TX (P3) [11] and RX (P4) [12] (TASK 20-10-44-400-801).

NOTE: Use lockwire with diameter range from 0.020 in. (0.508 mm) to 0.032 in. (0.813 mm).

(p) Do these steps to install the bonding jumper [9]:
1) Use cotton wiper, G00034, moist in solvent, B00184, to clean the mating surfaces of the bracket, terminal lug, nut [7], washer [8], bonding jumper [9].
2) Apply sealant, A50110, or sealant, A50155, or sealant, A50231, or sealant, A50296, to the mating surfaces of the terminal lug, nut [7], washer [8], bonding jumper [9] (SWPM 20-20-10 Paragraph 4.D).
3) Install the bonding jumper [9], washer [8], and nut [7].
4) Tighten the nut [7] to 28 in-lb (3.2 N·m) - 35 in-lb (4.0 N·m).
   a) Make sure that there is squeeze out around all the interfaces of each component.
5) Measure the electrical bonding resistance between the bonding jumper [9] and bracket (SWPM 20-20-00).
   a) Use an intrinsically safe approved bonding meter, COM-1550.
   b) Make sure that the resistance is 0.001 ohm (1.0 milliohms) or less.

(q) Connect the TX (P2) [2] and RX (P1) [3] to the KU-Band antenna [1].
1) Tighten the TX (P2) [2] and RX (P1) [3] to 7 in-lb (0.8 N·m) - 10 in-lb (1.1 N·m).

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(r) Install MS20995C15 lockwire, G50142, to the TX (P2) [2] and RX (P1) [3] (TASK 20-10-44-400-801).

I. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-11-080-001

(1) Disconnect the broadband antenna removal/installation equipment, C44001-56 or -61, SPL-15117, from the handling fixture assembly, SPL-13472 (Figure 402).

(a) Remove the screw pin shackles [25] from the handling fixture assembly, SPL-13472.

SUBTASK 44-35-11-080-002

(2) Disconnect the handling fixture assembly, SPL-13472, from the KU-Band antenna [1] (Figure 402).

(a) Remove the handling fixture screws [24] that attach the handling fixture assembly, SPL-13472, to the KU-Band antenna [1].

SUBTASK 44-35-11-080-003

(3) Remove the handling fixture assembly, SPL-13472, from the KU-Band antenna [1].

SUBTASK 44-35-11-080-004

(4) Rotate the KU-Band antenna [1] facing forward and remove protective cover from KU-Band antenna [1].

SUBTASK 44-35-11-420-008

(5) Install the radome, do this task: Broadband Radome Installation, TASK 53-54-00-400-801.

SUBTASK 44-35-11-040-001

(6) Do this task to deactivate the GCS: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

J. KU-Band Antenna Installation Test

SUBTASK 44-35-11-860-005

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA

SUBTASK 44-35-11-440-002

(2) Do this task to start the Global Communications Suite: Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

NOTE: The broadband controller will reboot automatically after the download.

SUBTASK 44-35-11-700-001

(3) Do this task: Configuration Check, TASK 44-21-00-700-801.

SUBTASK 44-35-11-740-001

(4) Do a Quick Test to make sure that no faults show for the installed antenna: Global Communications Suite - Quick Test, TASK 44-35-00-700-810-001.

SUBTASK 44-35-11-710-001

(5) Do a check of the internet connectivity, do this task: Global Communications Suite Internet Connectivity - Operational Test, TASK 44-35-00-700-808-001.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

BROADBAND CONTROLLER - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Removal of the Broadband Controller

(2) Installation of the Broadband Controller.

B. The Broadband Controller is installed on the E-8 shelf in the Main Equipment Center.

TASK 44-35-12-000-801

2. Broadband Controller Removal

(Figure 401)

A. General

(1) This task includes the steps to remove the Broadband Controller (BC).

B. References

Reference	Title
20-10-07-000-801	E/E Box Removal (P/B 201)
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
24-22-00-860-812	Remove Electrical Power (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Removal

SUBTASK 44-35-12-860-002

(1) Do this task: Remove Electrical Power, TASK 24-22-00-860-812.

SUBTASK 44-35-12-860-001

(2) Open these circuit breakers and install safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA

SUBTASK 44-35-12-010-001

(3) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-35-12-910-001

> **CAUTION**
> DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(4) Before you touch the BC, do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

F. Broadband Controller Removal

SUBTASK 44-35-12-020-001

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

(1) Do this task to remove the broadband controller [1]: E/E Box Removal, TASK 20-10-07-000-801.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

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Broadband Controller Installation
Figure 401/44-35-12-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-35-12-400-801

3. Broadband Controller Installation

(Figure 401)

A. General

(1) This task includes the steps to install the Broadband Controller (BC).

B. References

Reference	Title
20-10-07-400-801	E/E Box Installation (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
44-21-00-400-801	Load Software (P/B 201)
44-21-00-700-801	Configuration Check (P/B 201)
44-35-00-040-801-001	Global Communications Suite - Deactivation (P/B 201)
44-35-00-400-803-001	Load Satellite Coverage or Portal Content (P/B 201)
44-35-00-440-801-001	Global Communications Suite - Activation (P/B 201)
44-35-00-700-804-001	Satellite Status Check (P/B 201)
44-35-00-700-808-001	Global Communications Suite Internet Connectivity - Operational Test (P/B 501)
44-35-00-700-810-001	Global Communications Suite - Quick Test (P/B 501)
44-35-00-800-805-001	eXConnect System Commissioning (P/B 201)
44-35-00-800-806-001	Set Antenna Offset Information (P/B 201)

C. Location Zones

Zone	Area
117	Electrical and Electronics Compartment - Left
118	Electrical and Electronics Compartment - Right
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Access Panels

Number	Name/Location
117A	Electronic Equipment Access Door

E. Prepare for the Installation

SUBTASK 44-35-12-860-003

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA

SUBTASK 44-35-12-010-002

(2) Open this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-35-12-910-002

> **CAUTION**
> DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(3) Before you touch the broadband controller, do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

SUBTASK 44-35-12-160-001

(4) Clean the installation area, the components that interface with the broadband controller and the adjacent area if necessary.

F. Broadband Controller Installation

SUBTASK 44-35-12-420-002

(1) Do this task to install the broadband controller [1]: E/E Box Installation, TASK 20-10-07-400-801.

SUBTASK 44-35-12-860-004

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA

SUBTASK 44-35-12-860-005

(3) Do this task to start the Global Communication Suite (GCS): Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

NOTE: The broadband controller will reboot automatically after the download.

SUBTASK 44-35-12-470-001

(4) Load the software using Compact Disc (CD), if applicable (Load Software, TASK 44-21-00-400-801).

G. Broadband Controller Installation Test

SUBTASK 44-35-12-730-001

(1) Do a configuration check to make sure that the software downloaded correctly. Do this task: Configuration Check, TASK 44-21-00-700-801.

SUBTASK 44-35-12-740-001

(2) Do a quick test of the GCS: Global Communications Suite - Quick Test, TASK 44-35-00-700-810-001.

(a) Make sure that no faults show for the installed Broadband Controller.

(b) Make sure that no Cell Modem (CM) failure codes are present that prevent an aircraft CM remote file transfer from the Panasonic Mission Control Center (MCC).

SUBTASK 44-35-12-470-002

(3) Do these steps to load Panasonic Mission Control Center (MCC) content:

(a) Contact the Panasonic MCC and request content to be staged through aircraft Cell Modem (CM) transfer.

NOTE: Panasonic MCC phone number 1-425-415-9800.

NOTE: Approximately 15 minutes are necessary for the Content transfer.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-35-12-710-002

(4) Do a Content Status Check:

(a) On the CABIN MAINTENANCE screen, open Configuration folder, then select Content Status.

1) Make sure that the Content Status screen is shown.

(b) On the Content Status screen, make sure that the Panasonic MCC remote file transfer is complete.

NOTE: If the aircraft CM file transfer fails or cannot be completed, contact the Panasonic MCC (phone number +1-425-415-9800) and request transfer for a USB device.

SUBTASK 44-35-12-470-003

(5) Load the Satellite Coverage or Portal Content using a USB device. Refer to Load Satellite Coverage or Portal Content, TASK 44-35-00-400-803-001.

NOTE: Satellite Coverage or Portal Content load is only necessary if the Content Status Check did not show the remote file transfer as complete.

(a) Do a Content Status check.

1) Make sure that the CONTENT STATUS screen shows the updated file names, part numbers, software versions, and new load/activate dates.

SUBTASK 44-35-12-860-006

(6) Set the Antenna Offset Information: Set Antenna Offset Information, TASK 44-35-00-800-806-001.

SUBTASK 44-35-12-860-007

(7) Do the eXConnect Commissioning: eXConnect System Commissioning, TASK 44-35-00-800-805-001.

SUBTASK 44-35-12-710-003

(8) Check the Satellite status: Satellite Status Check, TASK 44-35-00-700-804-001.

SUBTASK 44-35-12-710-004

(9) Do a Configuration Check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the broadband controller reports correctly.

SUBTASK 44-35-12-740-002

(10) Do the Quick Test of the GCS: Global Communications Suite - Quick Test, TASK 44-35-00-700-810-001.

(a) Make sure that no faults are reported.

SUBTASK 44-35-12-710-005

(11) Do an internet Connectivity Test: Global Communications Suite Internet Connectivity - Operational Test, TASK 44-35-00-700-808-001.

SUBTASK 44-35-12-910-003

(12) Contact the Panasonic MCC for post commissioning verification.

NOTE: MCC phone number +1-425-415-9800.

H. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-12-040-001

(1) Do this task to deactivate the GCS: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-35-12-020-003

(2) Remove all the tools. Make sure that the area is clean and clear of tools and debris.

SUBTASK 44-35-12-410-001

(3) Close this access panel:

Number	Name/Location
117A	Electronic Equipment Access Door

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

POWER SUPPLY UNIT - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Removal of the Power Supply Unit.

(2) Installation of the Power Supply Unit.

TASK 44-35-13-000-801

2. Power Supply Unit Removal

(Figure 401)

A. General

(1) This task includes the steps to remove the Power Supply Unit.

(2) The Power Supply Unit is located above the passenger ceiling panel Station 727.

B. References

Reference	Title
20-40-12-000-802	ESDS Handling for Metal Encased Unit Removal (P/B 201)
20-40-12-400-804	Conductive Dust Cap and Connector Cover Installation (P/B 201)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - 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

D. Prepare for the Removal

SUBTASK 44-35-13-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA

SUBTASK 44-35-13-010-001

WARNING

TO PREVENT INJURY, USE PROPER FALL PREVENTION METHODS AND EQUIPMENT WHEN WORKING ON TOP OF THE FUSELAGE.

(2) Do this task to get access to the power supply unit [1]: Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-35-13-910-001

WARNING

BE CAREFUL WHEN YOU MOVE THE COMPONENT. THE COMPONENT IS HEAVY. INJURIES TO PERSONS CAN OCCUR.

(3) The power supply unit is heavy. Two persons are necessary to lift the component. If it falls, injuries to persons and/or damage to equipment can occur.

SUBTASK 44-35-13-910-002

(4) If necessary, use a cabin crown access platform to access the ceiling panel and power supply unit [1].

SUBTASK 44-35-13-910-003

CAUTION

DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(5) Before you touch the power supply unit [1], do this task: ESDS Handling for Metal Encased Unit Removal, TASK 20-40-12-000-802.

E. Power Supply Unit Removal

SUBTASK 44-35-13-000-001

(1) Do these steps to remove the power supply unit [1]:

(a) Disconnect the electrical connectors [2].

(b) Put protective covers on the electrical connectors [2].

1) Do this task: Conductive Dust Cap and Connector Cover Installation, TASK 20-40-12-400-804.

(c) Remove the screw [5], washers [6], and the bonding jumper [7].

(d) Hold the power supply unit [1] in place and remove the screws [3] and washers [4].

(e) Remove the power supply unit [1].

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

AFT PASSENGER CABIN

A

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Power Supply Unit Installation
Figure 401/44-35-13-990-801 (Sheet 1 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

MODULE POWER SUPPLY UNIT

B

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Power Supply Unit Installation
Figure 401/44-35-13-990-801 (Sheet 2 of 2)

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-35-13-400-801

3. Power Supply Unit Installation

(Figure 401)

A. General

(1) This task includes the steps to install the Power Supply Unit.

(2) The Power Supply Unit is above the passenger ceiling panel Station 727.

B. References

Reference	Title
20-40-12-000-804	Conductive Dust Cap and Connector Cover Removal (P/B 201)
20-40-12-400-802	ESDS Handling for Metal Encased Unit Installation (P/B 201)
25-21-45-000-803-001	Main Ceiling Panel - Removal (P/B 401)
25-21-45-400-803-001	Main Ceiling Panel - Installation (P/B 401)
44-21-00-700-801	Configuration Check (P/B 201)
44-35-00-040-801-001	Global Communications Suite - Deactivation (P/B 201)
44-35-00-440-801-001	Global Communications Suite - Activation (P/B 201)
44-35-00-700-808-001	Global Communications Suite Internet Connectivity - Operational Test (P/B 501)
44-35-00-700-810-001	Global Communications Suite - Quick Test (P/B 501)
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-1541	Access Stand - Cabin Crown
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. Consumable Materials

Reference	Description	Specification
G50136	Compound - Corrosion Inhibiting, Non-drying Paste	BMS3-38

E. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - 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

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F. Prepare for the Installation

SUBTASK 44-35-13-860-002

(1) Make sure that these circuit breakers are open and have safety tags:

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA

SUBTASK 44-35-13-910-004

> **WARNING** BE CAREFUL WHEN YOU MOVE THE COMPONENT. THE COMPONENT IS HEAVY. INJURIES TO PERSONS CAN OCCUR.

(2) The power supply unit is heavy. Two persons are necessary to lift the component. If it falls, injuries to persons and/or damage to equipment can occur.

SUBTASK 44-35-13-010-002

> **WARNING** TO PREVENT INJURY, USE PROPER FALL PREVENTION METHODS AND EQUIPMENT WHEN WORKING ON TOP OF THE FUSELAGE.

(3) Do this task to get access to the installation location: Main Ceiling Panel - Removal, TASK 25-21-45-000-803-001.

SUBTASK 44-35-13-910-005

(4) If necessary, use a cabin crown access stand, COM-1541 to access the ceiling panel and the installation location.

SUBTASK 44-35-13-910-006

(5) Do a visual inspection:

(a) Clean the installation area, the components that interfere with the power supply unit and the adjacent area if necessary.

(b) Make sure that the electrical connectors are clean and the connector pins are not bent or broken.

SUBTASK 44-35-13-910-007

> **CAUTION** DO NOT TOUCH THE UNIT BEFORE YOU DO THE PROCEDURE FOR DEVICES THAT ARE SENSITIVE TO ELECTROSTATIC DISCHARGE. ELECTROSTATIC DISCHARGE CAN CAUSE DAMAGE TO THE UNIT.

(6) Before you touch the power supply unit [1], do this task: ESDS Handling for Metal Encased Unit Installation, TASK 20-40-12-400-802.

G. Installation Procedure

SUBTASK 44-35-13-420-001

(1) Do these steps to prepare the power supply unit [1] for installation (SWPM 20-20-00).

(a) Do the abrasive cleaning procedure on the mating surfaces of the power supply unit [1] and the screw [5].

(b) Apply a category 8 faying surface seal with corrosion inhibiting material, G50136 to the mating surfaces of the power supply unit [1] and the bracket.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

SUBTASK 44-35-13-420-002

(2) Do these steps to install the power supply unit [1]:

(a) Hold the power supply unit [1] in place on the bracket and install the screws [3] and washers [4].

(b) Install the washers [6], bonding jumper [7], and screw [5].

(c) Tighten the screws [3] and screw [5] to a maximum torque of 42.5 in-lb (4.8 N·m).

SUBTASK 44-35-13-420-003

(3) Do an electric bond check with the intrinsically safe approved bonding meter, COM-1550, between the power supply unit [1] and the bracket.

(a) Make sure the resistance is less than 0.5 milliohms.

SUBTASK 44-35-13-910-008

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

(4) Do this task to remove dust caps from the electrical connectors [2]: Conductive Dust Cap and Connector Cover Removal, TASK 20-40-12-000-804.

SUBTASK 44-35-13-420-004

(5) Install the electrical connectors [2].

(a) Make sure that the bend radius of the cables is not less than 3.0 in. (7.6 cm).

SUBTASK 44-35-13-860-003

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	9	C01956	ANTENNA/WAP PWR DC
B	8	C01957	BROADBAND ANTENNA

SUBTASK 44-35-13-440-001

(7) Power up the broadband system. Refer to Global Communications Suite - Activation, TASK 44-35-00-440-801-001.

H. Power Supply Unit Installation Test

SUBTASK 44-35-13-700-001

(1) Do a configuration check: Configuration Check, TASK 44-21-00-700-801.

(a) Make sure that the power supply reports.

SUBTASK 44-35-13-740-002

(2) Do the Quick Test: Global Communications Suite - Quick Test, TASK 44-35-00-700-810-001.

SUBTASK 44-35-13-710-001

(3) Do an internet connectivity test: Global Communications Suite Internet Connectivity - Operational Test, TASK 44-35-00-700-808-001.

(a) Make sure that no faults are reported for the installed power supply unit.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

I. Put the Airplane Back to its usual Condition

SUBTASK 44-35-13-040-001

(1) Do this task to deactivate the GCS system: Global Communications Suite - Deactivation, TASK 44-35-00-040-801-001.

SUBTASK 44-35-13-910-009

(2) Remove all the tools. Make sure the area is clean and clear of all tools and debris.

SUBTASK 44-35-13-410-001

(3) Do this task to close access panels: Main Ceiling Panel - Installation, TASK 25-21-45-400-803-001.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

BROADBAND CONTROL PANEL - REMOVAL/INSTALLATION

1. General

A. This procedure has these tasks:

(1) Broadband Control Panel Removal

(2) Broadband Control Panel Installation.

TASK 44-35-14-000-801

2. Broadband Control Panel Removal

(Figure 401)

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 44-35-14-860-001

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	8	C01984	ANTENNA/WAP PWR AC

SUBTASK 44-35-14-910-001

> **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. Broadband Control Panel Removal

SUBTASK 44-35-14-020-001

(1) Loosen the fasteners [2] that secure the broadband control panel [1] to the P5 overhead panel.

SUBTASK 44-35-14-020-002

(2) Pull the broadband control panel [1] from the P5 overhead panel.

SUBTASK 44-35-14-020-003

(3) Disconnect the electrical connector [3] from the broadband control panel [1].

SUBTASK 44-35-14-020-004

(4) Remove the broadband control panel [1] from the P5 overhead panel.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details

Broadband Control Panel Installation
Figure 401/44-35-14-990-801

ECCN 9E991 BOEING PROPRIETARY - See title page for details

TASK 44-35-14-400-801

3. Broadband Control Panel Installation

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)
44-35-00-700-808-001	Global Communications Suite Internet Connectivity - Operational Test (P/B 501)
44-35-00-700-810-001	Global Communications Suite - Quick Test (P/B 501)

C. Location Zones

Zone	Area
211	Flight Compartment - Left
212	Flight Compartment - Right

D. Broadband Control Panel Installation

SUBTASK 44-35-14-910-002

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 44-35-14-420-001

(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] into the P5 overhead panel.

(c) Turn the fasteners [2] that secure the broadband control panel [1] to the P5 overhead panel.

E. Broadband Control Panel Installation Test

SUBTASK 44-35-14-860-002

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

F/O Electrical System Panel, P6-1

Row	Col	Number	Name
A	8	C01984	ANTENNA/WAP PWR AC

SUBTASK 44-35-14-710-001

(2) Do the Quick Test of the GCS: Global Communications Suite - Quick Test, TASK 44-35-00-700-810-001.

(a) Make sure there are no displayed faults.

SUBTASK 44-35-14-710-002

(3) Do an internet Connectivity Test: Global Communications Suite Internet Connectivity - Operational Test, TASK 44-35-00-700-808-001.

ECCN 9E991 BOEING PROPRIETARY - See title page for details

F. Put the Airplane Back to Its Usual Condition

SUBTASK 44-35-14-980-001

(1) Make sure that the overhead panel P5-9 BROADBAND CONTROL PANEL switch is off.

END OF TASK

ECCN 9E991 BOEING PROPRIETARY - See title page for details