



COMPONENT MAINTENANCE MANUAL

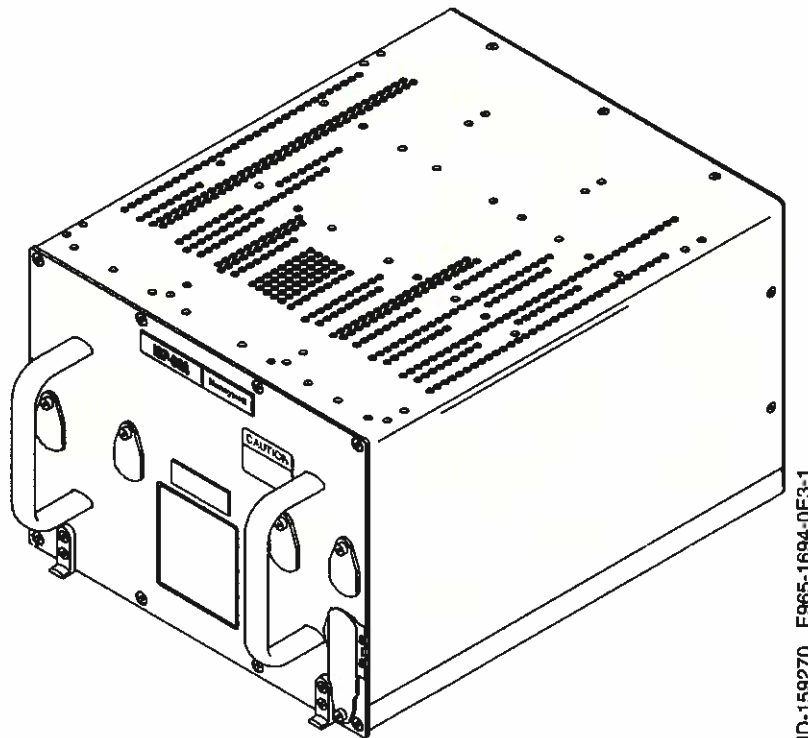
Part No. 965-1694-001

DESCRIPTION AND OPERATION

1. Description (TASK 34-48-01-870-801-A01)

A. General

- (1) The AESU is a component of the AESS. There are two AESUs in every AESS. Each AESU can hold nine LRUs. The LRUs are module assemblies that process data from various aircraft systems. Function specific CCAs are housed in the module assemblies. The processed data from the AESU supplies situational awareness to the pilot and copilot. See Figure 1 (GRAPHIC 34-48-01-99B-802-A01) for a typical AESU. Table 1 shows the leading particulars.



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Figure 1. (Sheet 1 of 1) AESU (GRAPHIC 34-48-01-99B-802-A01)

Table 1. Leading Particulars

Characteristic	Specification
Length (maximum, without handles)	12.56 in. (31,90 cm)
Length (maximum, with handles)	15.06 in. (38,25 cm)
Width (maximum)	10.27 in. (26,09 cm)
Height (maximum)	7.64 in. (19,41 cm)
Weight (maximum)	28.1 lb (12,8 kg)
Power	115 V ac, 360 to 800 Hz

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Table 1. Leading Particulars (cont)

Characteristic	Specification
Mating connector	Honeywell Part No. 440-1353-002
Cooling	30.42 lb/hr at 122 °F (13.2 kg/hr at 50 °C)

B. Chassis

- (1) The chassis of the AESU is called the configuration assembly and contains all the module assemblies. The configuration assembly is an eight-MCU ARINC 600 chassis shell. See Figure 2 (GRAPHIC 34-48-01-99B-803-A01) for the location of the module assemblies and slot assignments.
- (2) Table 2 shows the subassemblies of the AESU.

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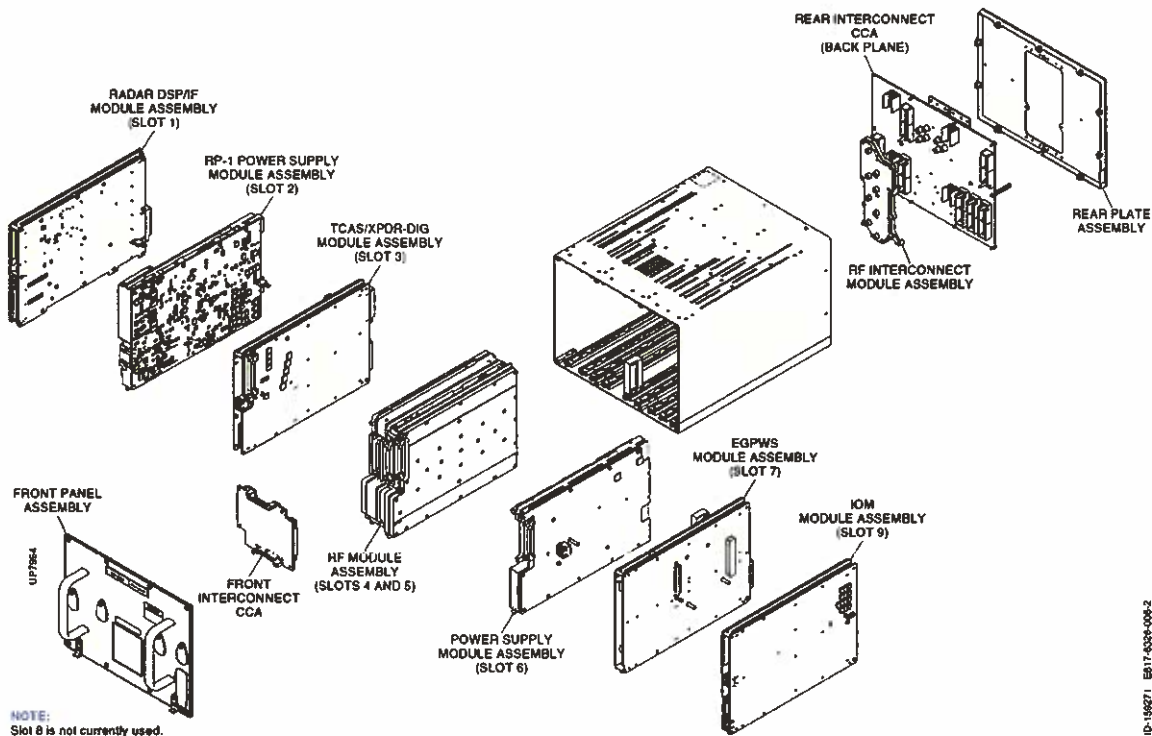
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NOTE:
Slot 8 is not currently used.

Figure 2. (Sheet 1 of 1) AESU Subassembly Locations (GRAPHIC 34-48-01-99B-803-A01)

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Table 2. Subassemblies

Part No.	Description
747-0475-001	Front panel assembly
722-4488-006	Front interconnect CCA
700-1751-008	IOM module assembly
700-1752-009	EGPWS module assembly
720-0225-005	Power supply module assembly
727-0028-004	RF module assembly
700-1750-010	TCAS/XPDR-DIG module assembly
720-0251-004	RP-1 Power supply module assembly
700-1806-007	Radar DSP/IF module assembly
727-0012-001, -002	RF interconnect module assembly
722-4484-009	Rear interconnect CCA
634-2287-002, -003	Rear plate assembly

2. Operation (TASK 34-48-01-870-802-A01)

A. General

- (1) The AESU is a component of the AESS. There are two AESUs in every system which supply necessary redundancy. One AESU is the Master, and supplies all the visual and alert outputs. The other AESU is the Slave, and is a hot standby unit.
- (2) The AESUs communicate with each other and most of the aircraft systems through the AFDX switched Ethernet. Each AESU interfaces with the aircraft systems shown in Table 3.

Table 3. AESU Interfaced Systems

Interfaced System	Function
CDS	Receives all AESS controls and supplies display data
EFIS	An alternate AESS source
FMS	Receives aircraft position and flight plan data
ADIRS	Receives AHRS data, speeds, altitudes, and GPIR parameters
MMR	Receives G/S and GPS parameters
RA	Receives radio altimeter distance to the ground
SFCC	Receives flap position and flap control system status

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Table 3. AESU Interfaced Systems (cont)

Interfaced System	Function
LGCIU	Receives landing gear position and flap control system status
FWS	Exchanges data for alert priority management and AESS source failure annunciation
OMS	Provides maintenance data continuously and through interactive protocol
DFDR	Records alert events
FDIU	Displays status
FCGC	Automatic avoidance maneuvers by the autopilot
EEC	Receives engine out status for climb performance indication
ACR	ATN/ATC network communication
CMF	Configuration management at aircraft level and data loading

B. AESU Module Assemblies

(1) General

- (a) See Figure 3 for a functional block diagram of the AESU and how it relates to the AESS. The AESU contains seven module assemblies:
 - Radar DSP/IF module assembly (slot 1)
 - RP-1 power supply module assembly (slot 2)
 - TCAS/XPDR-DIG module assembly (slot 3)
 - RF module assembly (slots 4 and 5)
 - Power supply module assembly (slot 6)
 - EGPWS module assembly (slot 7)
 - IOM module assembly (slot 9).
- (b) Slot 8 in the AESU is reserved for future growth.
- (c) Each module assembly has a CMM. The module assembly is described in detail in the appropriate CMM. Refer to the INTRODUCTION section for the publication number of each module assembly CMM.
- (d) Access to an Ethernet debug test port and a SIS part number reader port is made through the front panel.

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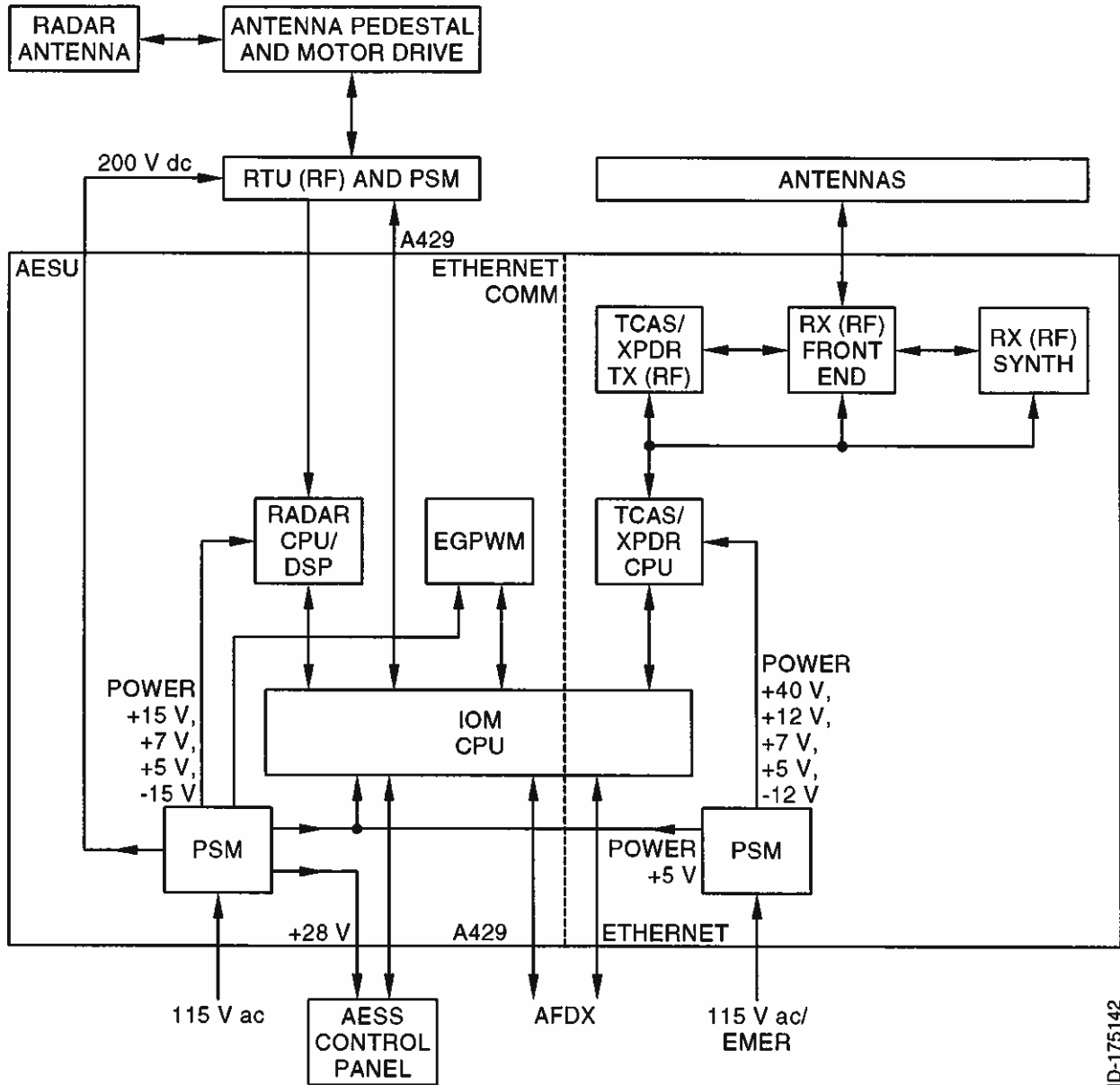
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Figure 3. (Sheet 1 of 1) AESU Functional Block Diagram (GRAPHIC 34-48-01-99B-804-A01)

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C. Radar DSP/IF Module Assembly (Slot 1)

(1) The radar DSP/IF Module Assembly (Radar DSP Module) is a line replaceable unit in the AESU. The Radar DSP Module contains two CCA:

- WX radar DSP CCA
- IF converter CCA.

(a) WX radar DSP CCA

1 The WX radar DSP CCA extracts the weather information from the data and maintains the information in a three-dimensional buffer. The WX radar DSP CCA gives weather information to the flight crew such as:

- Precipitation density
- Turbulence warnings
- Wind shear alerts.

2 The WX radar DSP CCA has the following external interfaces:

- FPGA control SPI
- Filtered IQ data
- I/O server interface
- LIDAR interface
- Debug port
- Certification port recording data.

(b) IF converter CCA

1 The IF converter CCA is the primary receive link between the R/T and the AESU. It receives the 48-MHz second IF analog signal from the R/T. The analog second IF signal is changed to a digital signal, which is used by the DSP CCA.

2 The IF converter CCA converts the weather data from the R/T into digital information. A filter FPGA controls the conversion process. The Filter FPGA is a bi-directional serial interface that operates at 50 Mbits/second.

3 The IF converter CCA:

- Supplies digital front end processing and IF control
- Digitally filters and amplifies the IF signal
- Gives a reference for the IF AGC.

D. RP-1 Power Supply Module Assembly (Slot 2)

(1) The RP-1 power supply module assembly has two modes of operation, AC operation or DC operation. It has two possible input power sources:

- 115 V ac, 360 to 800 Hz
- 28 V dc.

(2) The RP-1 Power Supply Module Assembly converts the AC or DC input voltage into the following voltages:

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- +5 V dc
 - +7 V dc
 - +15 V dc
 - -15 V dc
 - +28 V dc
 - +28 V dc control panel
 - +5 V_IOM
 - +200 V dc.
- (3) The RP-1 power supply module assembly has supervision circuits that monitor the input and output voltages and temperature. The module also contains an eight-ohm audio circuit. The audio circuit is used to amplify line level audio from the system but external to the AESU.

E. TCAS/XPDR-DIG Module Assembly (Slot 3)

- (1) The TCAS/XPDR-DIG module assembly consists of two CCA:

- EGPWM/TPL processor CCA
- Digital mezzanine CCA.

(a) EGPWM/TPL processor CCA

- 1 The EGPWM/TPL processor CCA contains the main CPU. The CPU supplies the main system interface by way of the Ethernet located on the rear interconnect module. The main system interface allows communication between the TCAS/XPDR-DIG module assembly and other functional modules in the AESU. An additional Ethernet port supplies connections to external test systems.
- 2 The EGPWM/TPL processor CCA contains a local power supply to convert the TPSM 28 V dc input to all required internal voltages. These voltages include:
 - + 5 ± 0.5 V for onboard (CCA) power
 - V for I/O
 - V for PLD
 - V for the processor core.
- 3 The EGPWM/TPL processor CCA supplies two (minimum) 100-Mbps Ethernet interfaces for:
 - DEOS debug tool and simulation/data recording
 - Intermodule communication.

(b) Digital mezzanine CCA

- 1 The digital mezzanine CCA contains the circuitry needed to do the following:
 - Decode transponder interrogations and supply modulation for transponder replies and squitters

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- Supply modulation for TCAS interrogations and decode transponder replies and squitters
- Supply TCAS phase data for bearing processing
- Supply RF function control including but not limited to; switches, synthesizers, and BIT
- Monitor DC voltages on the digital mezzanine CCA and the RF modules
- Supply a real time clock
- Supply ATE signals for production test.

F. RF Module Assembly (Slots 4 and 5)

(1) The RF module assembly consists of two module assemblies:

- Transmitter module assembly
- RF synthesizer/front end module assembly.

(a) Transmitter module assembly

- 1 The transmitter module assembly contains the transmitter CCA. It takes a modulated RF signal and amplifies it for transmission. The module contains a local power supply which converts the +7 V dc and a +V drain from the power supply module to all of the needed internal voltages. It interfaces to the other module assemblies in the AESU through the front interconnect CCA.
- 2 The transmitter module assembly has direct RF connections to the RF synthesizer/front end module assembly for routing to the antennas. It also supplies BITE monitors for the radar DSP/IF module assembly.

(b) RF synthesizer/front end module assembly

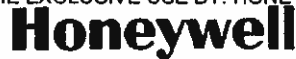
- 1 The RF synthesizer/front end module assembly contains:
 - RF synthesizer CCA
 - Front end CCA.
- 2 The RF synthesizer/front end module assembly is the interface for both the receive and transmit functions of the RF module. The interface to the antennas is through the RF interconnect module assembly.
- 3 The RF synthesizer/front end module assembly contains RF switches which direct signals to and from the top and bottom antennas. The module contains dedicated receive channels for both the TCAS and the XPDR functions. The channels contain RF filters and low noise amplifier gain stages.
- 4 In front of the low noise amplifier is a limiter to protect the inputs from high power damage. The RF synthesizer/front end module assembly contains local power supplies to convert 7 V dc from the power supply module to all of the needed internal voltages. It interfaces to the other system modules through the front interconnect CCA. The RF connections pass through the module to and from the transmitter module.

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G. Power Supply Module Assembly (Slot 6)

- (1) The power supply module assembly supplies power to the TCAS/XPDR CPU, which provides power to the TCAS:
 - TX
 - Receiver
 - XPDR.
- (2) The power supply module assembly gets power from the aircraft 115 V ac source.
- (3) The power supply module assembly may be connected to the emergency bus, and during emergency power reconfiguration, is the only AESU component connected to power. This places the entire AESU in the emergency power reconfiguration mode.
- (4) The power supply module assembly supplies the following voltages:
 - +38.5 V dc
 - +12 V dc
 - +7 V dc
 - +5 V dc
 - -12 V dc.

H. EGPWS Module Assembly (Slot 7)

- (1) The EGPWS module assembly contains two CCA:
 - IOM processor CCA
 - Mezzanine CCA.
- (a) IOM processor CCA
 - 1 The IOM processor CCA supplies the following to the AESU:
 - Boot application area - a minimum of 16 MB of nonvolatile memory arranged as a 64-bit wide data bus, with a maximum of 120-nanosecond access time.
 - Error/event logging/flight history area - a minimum of four MB of nonvolatile memory arranged as a 16-bit wide data bus, with a maximum of 120-nanosecond access time.
 - Processor work area - a minimum of 128 MB of SDRAM arranged as a 64-bit wide data bus, running at a minimum of 132 MHz.
 - 2 The IOM processor CCA has a front edge connector to supply:
 - Access to JTAG chains
 - Access to critical test signals
 - Access to an Ethernet port for debugging
 - Capability to set-up test modes
 - Capability to generate a hard reset
 - Capability to disable the watchdog circuit.

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(b) Mezzanine CCA

- 1 The mezzanine CCA has the following functions:
 - Database storage - a minimum of 640 MB of FLASH-based nonvolatile memory which has five banks (128 MB/bank) with a 32-bit wide data bus for storage. The mezzanine CCA also has 160 MB of FLASH-based nonvolatile memory arranged as an eight-bit wide data bus that has ECC capability to the database storage.
 - Application code and conversion constants for image generation - a minimum of 32 KB of nonvolatile SRAM storage, arranged as an 8-bit wide data bus.
 - Store image rasterization data - a minimum of 512 KB of synchronous SRAM arranged as a 32-bit data bus that runs at a minimum of 33 MHz.

I. IOM Module Assembly (Slot 9)

(1) The IOM module assembly is the interface from the AESU to the AESS and other aircraft systems. The IOM module assembly ties the AESU to the aircraft full duplex (ADFX) bus. The IOM module assembly contains two CCA:

- IOM processor CCA
- Communications CCA.

(a) IOM processor CCA

- 1 The IOM processor CCA interfaces to 19 discrete inputs and 15 discrete outputs. There are 12 ARINC 429 receivers and 10 ARINC 429 transmitters on the IOM processor CCA. Two RS-485 differential receivers are used to interface with two GPS time mark signals.
- 2 The IOM processor CCA supplies two isolated analog audio 600-ohm outputs.
- 3 The IOM processor CCA monitors both power supplies in the AESU. The CCA gets a power valid signal from each power supply and disables each supply if the signals are not correct.
- 4 The IOM processor CCA mates with the communications CCA over a PCI bus.

(b) Communications CCA

- 1 The communications CCA has five 100-Mbps Ethernet interfaces to make the following connections:
 - AFDX channel A
 - AFDX channel B
 - Dedicated channel data loading from AESU rear connector
 - DEOS debug tool (data loading through the AESU front panel)
 - EGPWS internal interface.

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TESTING AND FAULT ISOLATION

1. Planning Data (TASK 34-48-01-99C-801-A01)

A. Reason for the Job (Subtask 34-48-01-99C-001-A01)

- (1) Use the test procedures in this section to do tests and fault isolate the AESU.
- (2) The function of the test procedures is to find operation failures in the AESU.

B. Job Setup Data (Subtask 34-48-01-99C-002-A01)

- (1) You can use equivalent alternatives for the special tools, fixtures, equipment, and consumable materials. The user must find the equivalent alternatives.
- (2) Refer to Table 1001 for special tools, fixtures, and equipment.

Table 1001. Special Tools, Fixtures, and Equipment

Number	Name
755-0714-001	AESU test fixture, with forced air cooling (CAGE 97896)
951-040-001	AESS test platform (CAGE 97896)
998-3565-5XX	AESS ATP system software (CAGE 97896)
	Ethernet cross cable — Connects the IOM core Ethernet port and a personal computer (CAGE 97896)
	Microsoft Windows 2000 or above - AESS ATP test platform PC operating system
	Software — AESS IOM fault history parser tool diagnostic (CAGE 97896)

WARNING: BEFORE YOU USE A MATERIAL, REFER TO THE MANUFACTURERS' MATERIAL SAFETY DATA SHEETS. SOME MATERIALS CAN BE DANGEROUS.

CAUTION: DO NOT USE MATERIALS THAT ARE NOT EQUIVALENT TO MATERIALS SPECIFIED BY HONEYWELL. MATERIALS THAT ARE NOT EQUIVALENT CAN CAUSE DAMAGE TO THE EQUIPMENT AND CAN MAKE THE WARRANTY NOT APPLICABLE.

- (3) Refer to Table 1002 for consumable materials.

Table 1002. Consumable Materials

Number	Name
Not applicable	Not applicable

- (4) Refer to Table 1003 for reference data.

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Table 1003. Reference Data

Reference	Name
951-0404-001	AESS test platform
998-3565-000	AESS ATP Software Version Description Document

2. Procedure (TASK 34-48-01-700-801-A01)

A. Job Setup (Subtask 34-48-01-700-001-A01)

CAUTION: THE AIRCRAFT ENVIRONMENT SURVEILLANCE UNIT CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE ITEMS. USE INDUSTRY APPROVED PRECAUTIONS.

- (1) Obey the precautions.
- (2) The test procedure gives instructions to make the test setup.
- (3) Refer to Table 1004 for a list of test procedures that are applicable to this Honeywell publication number. Use the applicable procedure to make an analysis of the performance of the AESU.

Table 1004. Test Procedures

Procedure Part Number	Revision	Used On Part Number	Figure
965-1694-701	G	965-1694-001	Figure 1004 (GRAPHIC 34-48-01-99B-808-A01)

B. Testing of the AESU (Subtask 34-48-01-700-002-A01)

- (1) Use Figure 1004 (GRAPHIC 34-48-01-99B-808-A01) to do a test of the AESU.

C. Fault Isolation of the AESU (Subtask 34-48-01-810-001-A01)

- (1) Do fault isolation (diagnostics) on the AESU as a part of the test procedure.
- (2) Table 1005 lists the faults along with the suspect LRUs. Fault confirmation and isolation procedures are also listed for each fault.
- (3) The procedures in Paragraph 2.D. (Subtask 34-48-01-700-003-A01) are used to download the fault history from the AESU to a laptop or another type of personal computer.
- (4) Table 1006 is a fault list summary. It lists the test names, fault type, fault category, AESS consequences, and aircraft consequences of faults recorded in the AESU.

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Table 1005. Fault Data Code List

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 IOM Failure with Flight Deck Effect	AESU1		N.A.	N.A.
AESU2 IOM Failure with Flight Deck Effect	AESU2		N.A.	N.A.
AESS CP Failed	Control Panel	AESU1	N.A.	N.A.
Top TPL Antenna Sys 1 Failed	TCAS/Mode S Top Antenna 1	AESU1	Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU XPDR/TCAS Test.	Replace Top Antenna Sys 1 (refer to AMM task "removal and installation of the TCAS/XPDR Antenna") If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove Top Antenna Sys 1 and AESU1, do a check and repair the wiring from the Top Antenna Sys 1 to AESU1. Install Top Antenna Sys 1 and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU TCAS/XPDR Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
Top TPL Antenna Sys 2 Failed	TCAS/Mode S Top Antenna 2	AESU2	Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU XPDR/TCAS Test.	Replace Top Antenna Sys 2 (refer to AMM task "removal and installation of the TCAS/XPDR Antenna") If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove Top Antenna Sys 2 and AESU2, do a check and repair the wiring from the Top Antenna Sys 2 to AESU2. Install Top Antenna Sys 2 and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU TCAS/XPDR Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
Bottom TPL Antenna Sys 1 Failed	TCAS/Mode S Bottom Antenna 1	AESU1	Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU XPDR/TCAS Test.	Replace Bottom Antenna Sys 1 (refer to AMM task "removal and installation of the TCAS/XPDR Antenna") If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove Bottom Antenna Sys 1 and AESU1, do a check and repair the wiring from the Bottom Antenna Sys 1 to AESU1. Install Bottom Antenna Sys 1 and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU TCAS/XPDR Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
Bottom TPL Antenna Sys 2 Failed	TCAS/Mode S Bottom Antenna 2	AESU2	Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU XPDR/TCAS Test.	Replace Bottom Antenna Sys 2 (refer to AMM task "removal and installation of the TCAS/XPDR Antenna") If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove Bottom Antenna Sys 2 and AESU2, do a check and repair the wiring from the Bottom Antenna Sys 2 to AESU2. Install Bottom Antenna Sys 2 and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU TCAS/XPDR Test.
WADU Failed with Flight Deck Effect	WXR Antenna Drive Unit	RTU1	Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test. AND Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	N.A.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
RTU1 Failed with Flight Deck Effect	RTU1	AESU1	Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	N.A.
RTU2 Failed with Flight Deck Effect	RTU2	AESU2	Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	N.A.
AESU1 Software Compatibility Error	SOFT CONFIG ERROR	AESU1	N.A.	Reload AESU1 Softwares/databases with correct versions.
AESU2 Software Compatibility Error	SOFT CONFIG ERROR	AESU2	N.A.	Reload AESU2 Softwares/databases with correct versions.
AESU1 Hardware /Software Compatibility Error	AESU1		N.A.	Determine what version AESU1 Software Part Number and what AESU1 Hardware Part Number should be installed on the airplane. If AESU1 hardware part number is wrong, replace AESU1 (refer to AMM task "removal and installation of the AESU"). If AESU1 Software Part Number is wrong, load correct versions of AESU1 Software and Databases

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 Hardware /Software Compatibility Error	AESU2		N.A.	<p>Determine what version AESU2 Software Part Number and what AESU2 Hardware Part Number should be installed on the airplane.</p> <p>If AESU2 hardware part number is wrong, replace AESU2 (refer to AMM task "removal and installation of the AESU").</p> <p>If AESU2 Software Part Number is wrong, load correct versions of AESU2 Software and Databases</p>
AESU1 Radar 48MhzIF Signal Failure	RTU1	AESU1	<p>Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.</p>	<p>Replace RTU1 (refer to AMM task "removal and installation of the RTU")</p> <p>If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU").</p> <p>If fault continues, remove RTU1 and AESU1, do a check and repair the 48MhzIF wiring from the RTU1 to AESU1. Install RTU1 and AESU1.</p> <p>After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.</p>

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 Radar 48MhzIF Signal Failure	RTU2	AESU2	Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	Replace RTU2 (refer to AMM task "removal and installation of the RTU") If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove RTU2 and AESU2, do a check and repair the 48MhzIF wiring from the RTU2 to AESU2. Install RTU2 and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 Radar 64MhzCikData Signal Failure	RTU1	AESU1	Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	Replace RTU1 (refer to AMM task "removal and installation of the RTU") If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove RTU1 and AESU1, do a check and repair the 64MhzIF wiring from the RTU1 to AESU1. Install RTU1 and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 Radar 64MhzCikData Signal Failure	RTU2	AESU2	Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	Replace RTU2 (refer to AMM task "removal and installation of the RTU") If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove RTU2 and AESU2, do a check and repair the 64MhzIF wiring from the RTU2 to AESU2. Install RTU2 and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1/AESU2 Compatibility Error	SOFT CONFIG ERROR	AESU1	N.A.	Determine what version AESU Software Part Numbers and Database Part Numbers should be installed on the airplane. Reload the AESU(s) with the correct Software and Database versions.
AESU1 Auto Reset (e.g., Watchdog of any Module)	AUTO RESET		N.A.	N.A.
AESU2 Auto Reset (e.g., Watchdog of any Module)	AUTO RESET		N.A.	N.A.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 EGPWS Terrain Database Compatibility	SOFT CONFIG ERROR	AESU1	N.A.	Determine what version AESU Software Part Numbers and Database Part Numbers should be installed on the airplane. If AESU1 Software version is wrong, load correct version of AESU1 Software part number. If AESU1 Terrain Database version is wrong, load correct version of AESU1 Terrain Database.
AESU2 EGPWS Terrain Database Compatibility	SOFT CONFIG ERROR	AESU2	N.A.	Determine what version AESU Software Part Numbers and Database Part Numbers should be installed on the airplane. If AESU2 Software version is wrong, load correct version of AESU2 Software part number. If AESU2 Terrain Database version is wrong, load correct version of AESU2 Terrain Database.
AESU1 Failure without Flight Deck Effect	AESU1		N.A.	N.A.
AESU2 Failure without Flight Deck Effect	AESU2		N.A.	N.A.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 Terrain Database Not Valid	AESU1		N.A.	Reload the Terrain Database in AESU1. If fault continues (i.e., Load fails), replace AESU1 (refer to AMM task "removal and installation of the AESU") After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU2 Terrain Database Not Valid	AESU2		N.A.	Reload the Terrain Database in AESU2. If fault continues (i.e., Load fails), replace AESU2 (refer to AMM task "removal and installation of the AESU") After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 Envelope Mod Database Not Valid	AESU1		N.A.	Reload the Envelope Mod Database in AESU1 If fault continues (i.e., Load fails), replace AESU1 (refer to AMM task "removal and installation of the AESU") After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 Envelope Mod Database Not Valid	AESU2		N.A.	Reload the Envelope Mod Database in AESU2. If fault continues (i.e., Load fails), replace AESU2 (refer to AMM task "removal and installation of the AESU") After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 EGPWS Aircraft Config Database Not Valid	AESU1		N.A.	Reload the EGPWS Software Application in AESU1. If fault continues (i.e., Load fails), replace AESU1 (refer to AMM task "removal and installation of the AESU") After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 EGPWS Aircraft Config Database Not Valid	AESU2		N.A.	Reload the EGPWS Software Application in AESU2. If fault continues (i.e., Load fails), replace AESU2 (refer to AMM task "removal and installation of the AESU") After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 TAWS Failure with Flight Deck Effect	AESU1		Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU TAWS Test.	N.A.
AESU2 TAWS Failure with Flight Deck Effect	AESU2		Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU TAWS Test.	N.A.
AESU1 GPWS Failure with Flight Deck Effect	AESU1		N.A.	N.A.
AESU2 GPWS Failure with Flight Deck Effect	AESU2		N.A.	N.A.
AESU1 Terrain Failure with Flight Deck Effect	AESU1		N.A.	N.A.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 Terrain Failure with Flight Deck Effect	AESU2		N.A.	N.A.
AESU1 TPL Failure with Flight Deck Effect	AESU1		Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU XPDR/TCAS Test.	N.A.
AESU2 TPL Failure with Flight Deck Effect	AESU2		Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU XPDR/TCAS Test.	N.A.
AESU1 TCAS Failure with Flight Deck Effect	AESU1		Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU XPDR/TCAS Test.	N.A.
AESU2 TCAS Failure with Flight Deck Effect	AESU2		Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU XPDR/TCAS Test.	N.A.
AESU1 WXR Failure with Flight Deck Effect	AESU1		Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	N.A.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 WXR Failure with Flight Deck Effect	AESU2		Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	N.A.
RTU1 Failed without Flight Deck Effect	RTU1	AESU1	Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	N.A.
RTU2 Failed without Flight Deck Effect	RTU2	AESU2	Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	N.A.
WADU Failed without Flight Deck Effect	WXR Antenna Drive Unit	RTU1	Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test. AND Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	N.A.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 Software Error with Flight Deck Effect	AESU1		N.A.	Reload AESU1 Software. If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU2 Software Error with Flight Deck Effect	AESU2		N.A.	Reload AESU2 Software. If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 Software Error without Flight Deck Effect	AESU1		N.A.	Reload AESU1 Software. If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 Software Error without Flight Deck Effect	AESU2		N.A.	Reload AESU2 Software. If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
WADU GDM1 Auto Reset	AUTO RESET		N.A.	N.A.
WADU GDM2 Auto Reset	AUTO RESET		N.A.	N.A.
RTU1 Auto Reset	AUTO RESET		N.A.	N.A.
RTU2 Auto Reset	AUTO RESET		N.A.	N.A.
AESU1 SIS Part Number Mismatch Test	SOFT CONFIG ERROR	AESU1	N.A.	Reload AESU1 Softwares/databases with correct versions. If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 SIS Part Number Mismatch Test	SOFT CONFIG ERROR	AESU2	N.A.	Reload AESU2 Softwares/databases with correct versions. If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
RTU Cable Cross Connect Fault	RTU1	RTU2	N.A.	<p>Examine Cables from AESU1 to RTU1 and AESU2 to RTU2, swap cables if they are cross connected.</p> <p>If fault continues, remove AESU1, do a check and repair the Position Pin wiring to AESU1. Install AESU1.</p> <p>If fault continues, Remove AESU2, do a check and repair the Position Pin wiring to AESU2. Install AESU2.</p> <p>If fault continues, remove RTU1, do a check and repair the Position Pin wiring to RTU1. Install RTU1.</p> <p>If fault continues, remove RTU2, do a check and repair the Position Pin wiring to RTU2. Install RTU2.</p> <p>After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.</p>

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
RTU1 Hardware /Software Compatibility	RTU1	AESU1	N.A.	<p>Determine what version RTU1 Software Part Number and what RTU1 Hardware Part Number should be installed on the airplane.</p> <p>If RTU1 hardware part number is wrong, replace RTU1 (refer to AMM task "removal and installation of the RTU").</p> <p>If RTU1 Software Part Number is wrong, load correct versions of AESU1 WXR Software</p>
RTU2 Hardware /Software Compatibility	RTU2	AESU2	N.A.	<p>Determine what version RTU2 Software Part Number and what RTU2 Hardware Part Number should be installed on the airplane.</p> <p>If RTU2 hardware part number is wrong, replace RTU2 (refer to AMM task "removal and installation of the RTU").</p> <p>If RTU2 Software Part Number is wrong, load correct versions of AESU2 WXR Software</p>

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Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
WADU AESU1 Hardware /Software Compatibility	WXR Antenna Drive Unit	RTU1	N.A.	Determine what version WADU Software Part Number and what WADU Hardware Part Number should be installed on the airplane. If WADU hardware part number is wrong, replace WADU (refer to AMM task "removal and installation of the WADU"). If WADU Software Part Number is wrong, load correct versions of AESU1 WXR Software
WADU AESU2 Hardware /Software Compatibility	WXR Antenna Drive Unit	RTU2	N.A.	Determine what version WADU Software Part Number and what WADU Hardware Part Number should be installed on the airplane. If WADU hardware part number is wrong, replace WADU (refer to AMM task "removal and installation of the WADU"). If WADU Software Part Number is wrong, load correct versions of AESU2 WXR Software

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Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
WADU/RTU1 Power Anomaly	RTU1	WXR Antenna Drive Unit	N.A.	Replace RTU1 (refer to AMM task "removal and installation of the RTU") If fault continues, replace WADU (refer to AMM task "removal and installation of the WADU"). After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
WADU/RTU2 Power Anomaly	RTU2	WXR Antenna Drive Unit	N.A.	Replace RTU2 (refer to AMM task "removal and installation of the RTU") If fault continues, replace WADU (refer to AMM task "removal and installation of the WADU"). After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
WADU/RTU1 RF Switch Anomaly	RTU1	WXR Antenna Drive Unit	N.A.	Replace RTU1 (refer to AMM task "removal and installation of the RTU") If fault continues, replace WADU (refer to AMM task "removal and installation of the WADU"). After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
WADU/RTU2 RF Switch Anomaly	RTU2	WXR Antenna Drive Unit	N.A.	Replace RTU2 (refer to AMM task "removal and installation of the RTU") If fault continues, replace WADU (refer to AMM task "removal and installation of the WADU"). After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 AESS CP ARINC 429 Input Failure	Control Panel	AESU1	N.A.	Replace the AESS CP (refer to AMM task "removal and installation of the AESS CP") If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AESS CP and AESU1, do a check and repair the wiring from the AESS CP to AESU1. Install AESS CP and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 AESS CP ARINC 429 Input Failure	Control Panel	AESU2	N.A.	Replace the AESS CP (refer to AMM task "removal and installation of the AESS CP") If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AESS CP and AESU2, do a check and repair the wiring from the AESS CP to AESU2. Install AESS CP and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 RTU ARINC 429 Input Failure	RTU1	AESU1	Select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	Replace RTU1 (refer to AMM task "removal and installation of the RTU") If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove RTU1 and AESU1, do a check and repair the ARINC 429 wiring from the RTU1 to AESU1. Install RTU1 and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 RTU ARINC 429 Input Failure	RTU2	AESU2	Select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU WXR Test.	Replace RTU2 (refer to AMM task "removal and installation of the RTU") If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove RTU2 and AESU2, do a check and repair the ARINC 429 wiring from the RTU2 to AESU2. Install RTU2 and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 RMP 1 ARINC 429 Input Failure	AESU1	RMP-1	N.A.	Replace AESU1 (refer to AMM task "removal and installation of the AESU") If fault continues, remove RMP1 and AESU1, do a check and repair the ARINC 429 wiring from the RMP1 to AESU1. Install RMP1 and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test

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Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 RMP 2 ARINC 429 Input Failure	AESU2	RMP-2	N.A.	Replace AESU2 (refer to AMM task "removal and installation of the AESU") If fault continues, remove RMP2 and AESU2, do a check and repair the ARINC 429 wiring from the RMP2 to AESU2. Install RMP2 and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 RMP 2 ARINC 429 Input Failure	AESU1	RMP-2	N.A.	Replace AESU1 (refer to AMM task "removal and installation of the AESU") If fault continues, remove RMP2 and AESU1, do a check and repair the ARINC 429 wiring from the RMP2 to AESU1. Install RMP2 and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 RMP 1 ARINC 429 Input Failure	AESU2	RMP-1	N.A.	Replace AESU2 (refer to AMM task "removal and installation of the AESU") If fault continues, remove RMP1 and AESU2, do a check and repair the ARINC 429 wiring from the RMP1 to AESU2. Install RMP1 and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 Position Discrete Input Failure	AESU1		N.A.	Replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AESU1, do a check and repair the Position Pin wiring to AESU1. Install AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 Position Discrete Input Failure	AESU2		N.A.	Replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AESU2, do a check and repair the Position Pin wiring to AESU2. Install AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 Emergency Cancel Stuck Discrete	AESU1		N.A.	Replace the AESU1 (refer to AMM task "removal and installation of the AESU") If fault continues, remove ECP and AESU1, do a check and repair the Emergency Cancel wiring from the ECP to AESU1. Install ECP and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 Emergency Cancel Stuck Discrete	AESU2		N.A.	Replace the AESU2 (refer to AMM task "removal and installation of the AESU") If fault continues, remove ECP and AESU2, do a check and repair the Emergency Cancel wiring from the ECP to AESU1. Install ECP and AESU1. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 AFDX A No Input Data Failure	AFDX NETWORK	AESU1	N.A.	Replace AFDX Switch connected to Channel A of AESU1 (refer to AMM task "removal and installation of the AFDX NETWORK Switch") If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AFDX Switch A and AESU1, do a check and repair the AFDX wiring from the AFDX Switch A to AESU1. Install AFDX Switch A and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 AFDX A No Input Data Failure	AFDX NETWORK	AESU2	N.A.	Replace AFDX Switch connected to Channel A of AESU2 (refer to AMM task "removal and installation of the AFDX NETWORK Switch") If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AFDX Switch A and AESU2, do a check and repair the AFDX wiring from the AFDX Switch A to AESU2. Install AFDX Switch A and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 AFDX B No Input Data Failure	AFDX NETWORK	AESU1	N.A.	Replace AFDX Switch connected to Channel B of AESU1 (refer to AMM task "removal and installation of the AFDX NETWORK Switch") If fault continues, replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AFDX Switch B and AESU1, do a check and repair the AFDX wiring from the AFDX Switch B to AESU1. Install AFDX Switch B and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 AFDX B No Input Data Failure	AFDX NETWORK	AESU2	N.A.	Replace AFDX Switch connected to Channel B of AESU1 (refer to AMM task "removal and installation of the AFDX NETWORK Switch") If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AFDX Switch B and AESU2, do a check and repair the AFDX wiring from the AFDX Switch B to AESU2. Install AFDX Switch B and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU1 WXR /TAWS PSM Power Interrupt >200 ms with at least one Engine Running	POWER SUPPLY INTERRUPT		N.A.	N.A.
AESU2 WXR /TAWS PSM Power Interrupt >200 ms with at least one Engine Running	POWER SUPPLY INTERRUPT		N.A.	N.A.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 TPL PSM Power Interrupt >200 ms with at least one Engine Running	POWER SUPPLY INTERRUPT		N.A.	N.A.
AESU2 TPL PSM Power Interrupt >200 ms with at least one Engine Running	POWER SUPPLY INTERRUPT		N.A.	N.A.
AESU1 WXR /TAWS PSM No Power Input	AESU1		N.A.	<p>Remove AESU1, determine if 115VRM/400Hz is provided to AESU1 WXR/TAWS Power Supply Input.</p> <p>If power is present on the AESU1 WXR/TAWS Power Supply Input, replace AESU1 (refer to AMM task "removal and installation of the AESU").</p> <p>If power is not present on the AESU1 WXR/TAWS Power Supply Input, troubleshoot the aircraft power system, i.e., wiring, breakers, etc....</p> <p>After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.</p>

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 WXR /TAWS PSM No Power Input	AESU2		N.A.	<p>Remove AESU2, determine if 115VRM/400Hz is provided to AESU2 WXR/TAWS Power Supply Input.</p> <p>If power is present on the AESU2 WXR/TAWS Power Supply Input, replace AESU2 (refer to AMM task "removal and installation of the AESU").</p> <p>If power is not present on the AESU2 WXR/TAWS Power Supply Input, troubleshoot the aircraft power system, i.e., wiring, breakers, etc....</p> <p>After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.</p>

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 TPL PSM No Power Input	AESU1		N.A.	Remove AESU1, determine if 115VRM/400Hz is provided to AESU1 TPL Power Supply Input. If power is present on the AESU1 TPL Power Supply Input, replace AESU1 (refer to AMM task "removal and installation of the AESU"). If power is not present on the AESU1 TPL Power Supply Input, troubleshoot the aircraft power system, i.e., wiring, breakers, etc.... After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU2 TPL PSM No Power Input	AESU2		N.A.	<p>Remove AESU2, determine if 115VRM/400Hz is provided to AESU2 TPL Power Supply Input. If power is present on the AESU2 TPL Power Supply Input, replace AESU2 (refer to AMM task "removal and installation of the AESU").</p> <p>If power is not present on the AESU2 TPL Power Supply Input, troubleshoot the aircraft power system, i.e., wiring, breakers, etc....</p> <p>After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.</p>

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESS CP AESU1 ARINC 429 Input Failure	AESU1	Control Panel	N.A.	Replace the AESU1 (refer to AMM task "removal and installation of the AESU") If fault continues, replace AESS CP (refer to AMM task "removal and installation of the AESS CP"). If fault continues, remove AESS CP and AESU1, do a check and repair the wiring from the AESU1 to AESS CP. Install AESS CP and AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESS CP AESU2 ARINC 429 Input Failure	AESU2	Control Panel	N.A.	Replace the AESU2 (refer to AMM task "removal and installation of the AESU") If fault continues, replace AESS CP (refer to AMM task "removal and installation of the AESS CP"). If fault continues, remove AESS CP and AESU2, do a check and repair the wiring from the AESU2 to AESS CP. Install AESS CP and AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 UADF CDS L1 Compatibility Error	SOFT CONFIG ERROR	DU-PFD-CAPT	N.A.	Determine what version AESU1 Software Part Number and what version UADF CDS L1 configuration should be installed on the airplane. If AESU1 Software Part Number is wrong, load correct versions of AESU1 Software and Databases. If UADF CDS L1 configuration is wrong, load correct version of UADF CDS L1 configuration.
AESU2 UADF CDS L1 Compatibility Error	SOFT CONFIG ERROR	DU-PFD-CAPT	N.A.	Determine what version AESU2 Software Part Number and what version UADF CDS L1 configuration should be installed on the airplane. If AESU2 Software Part Number is wrong, load correct versions of AESU2 Software and Databases. If UADF CDS L1 configuration is wrong, load correct version of UADF CDS L1 configuration.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 AFDX A and B No Input Data Failure	AESU1	AFDX NETWORK	N.A.	Replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AESU1, do a check and repair the AFDX wiring from the AFDX Switch A and B to AESU1. Install AESU1. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.
AESU2 AFDX A and B No Input Data Failure	AESU2	AFDX NETWORK	N.A.	Replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AESU2, do a check and repair the AFDX wiring from the AFDX Switch A and B to AESU2. Install AESU2. After manipulations, select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
Both AESUs are Master	AESU1	AESU2	N.A.	Replace AESU1 (refer to AMM task "removal and installation of the AESU"). If fault continues, replace AESU2 (refer to AMM task "removal and installation of the AESU"). If fault continues, remove AESU1, do a check and repair the the AESU Position Program pin inputs. Install AESU1. If fault continues, remove AESU2, do a check and repair the the AESU Position Program pin inputs. Install AESU2. If fault continues, remove AESU1 and AESU2, do a check and repair the AFDX wiring from the AFDX Switch A and B to AESU2 and AESU1. Install AESU1 and AESU2. After manipulations, select Side 1 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test. Then select Side 2 for WXR/TAWS and XPDR/TCAS Groups on the AESS CP and then perform a Master AESU System Test.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1/AESS CP Compatibility Error	Control Panel	AESU1	N.A.	Determine what version AESU1 Software Part Number and what AESS CP Hardware Part Number should be installed on the airplane. If AESS CP Hardware Part Number is wrong, replace AESS CP (refer to AMM task "removal and installation of the AESS CP"). If AESU1 Software Part Number is wrong, load correct versions of AESU1 Software and Databases.
AESU2/AESS CP Compatibility Error	Control Panel	AESU2	N.A.	Determine what version AESU2 Software Part Number and what AESS CP Hardware Part Number should be installed on the airplane. If AESS CP Hardware Part Number is wrong, replace AESS CP (refer to AMM task "removal and installation of the AESS CP"). If AESU2 Software Part Number is wrong, load correct versions of AESU2 Software and Databases.

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Table 1005. Fault Data Code List (cont)

Failure Message Title	Primary Suspect LRU	Secondary Suspect LRU	Fault Confirmation Procedure (Only required for Latched Faults and if the fault is a possible Not Detectable Fault)	Fault Isolation Procedure (Only required when the fault messages involving an AESS LRU can not accuse a single LRU with 100%)
AESU1 UADF CDS L2 Compatibility Error	SOFT CONFIG ERROR	DU-ND-CAPT	N.A.	Determine what version AESU1 Software Part Number and what version UADF CDS L2 configuration should be installed on the airplane. If AESU1 Software Part Number is wrong, load correct versions of AESU1 Software and Databases. If UADF CDS L2 configuration is wrong, load correct version of UADF CDS L2 configuration.
AESU2 UADF CDS L2 Compatibility Error	SOFT CONFIG ERROR	DU-ND-CAPT	N.A.	Determine what version AESU2 Software Part Number and what version UADF CDS L2 configuration should be installed on the airplane. If AESU2 Software Part Number is wrong, load correct versions of AESU2 Software and Databases. If UADF CDS L2 configuration is wrong, load correct version of UADF CDS L2 configuration.

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