

CHAPTER

31

**INDICATING/
RECORDING SYSTEM**



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ILLUSTRATED TOOL AND EQUIPMENT MANUAL

CHAPTER 31 INDICATING/RECORDING SYSTEM

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PART NUMBER: A31008-1

NAME: TEST CABLE - WARNING ELECTRONIC UNIT (WEU) POWER SUPPLY

AIRPLANE MAINTENANCE: NO

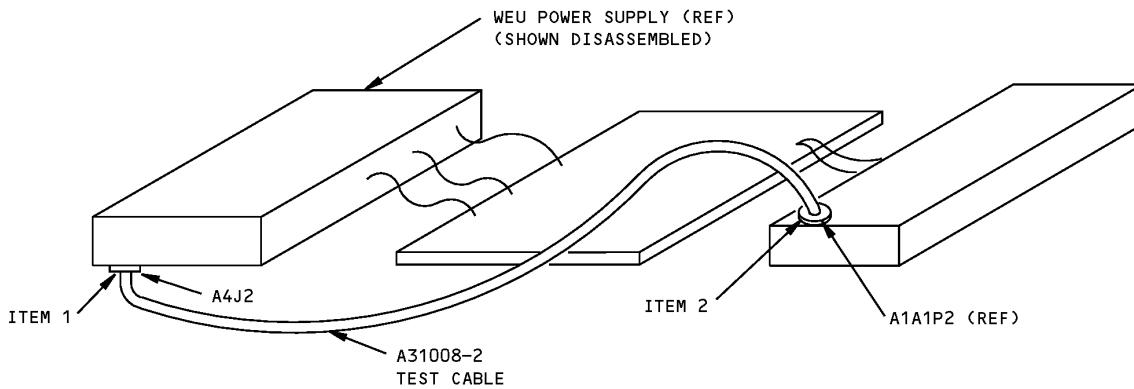
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A31008 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A31008 inclusion in the 757 ITEM is for information and historical purposes only.

The A31008-1 test cable is used during component maintenance on all 757 airplanes. A31008 is used to reconnect the WEU power supply circuitry between printed circuit cards after it has been disassembled. Refer to CMM 31-51-20 for complete usage instructions. A31008-1 consists of an A31008-2 cable assembly contained in a storage box

WEIGHT: 2 lbs (0.9 kg)

DIMENSIONS: 2 x 5 x 5 inches (51 x 127 x 127 mm)



**WEU Power Supply Test Cable
Figure 1**



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REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	DAMM15S	CONNECTOR	V71468
2	DAMM15P	CONNECTOR	V7146



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PART NUMBER: A31010-1

NAME: BREAKOUT BOX - POWER SUPPLY UNIT, WARNING ELECTRONICS UNIT (WEU)

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

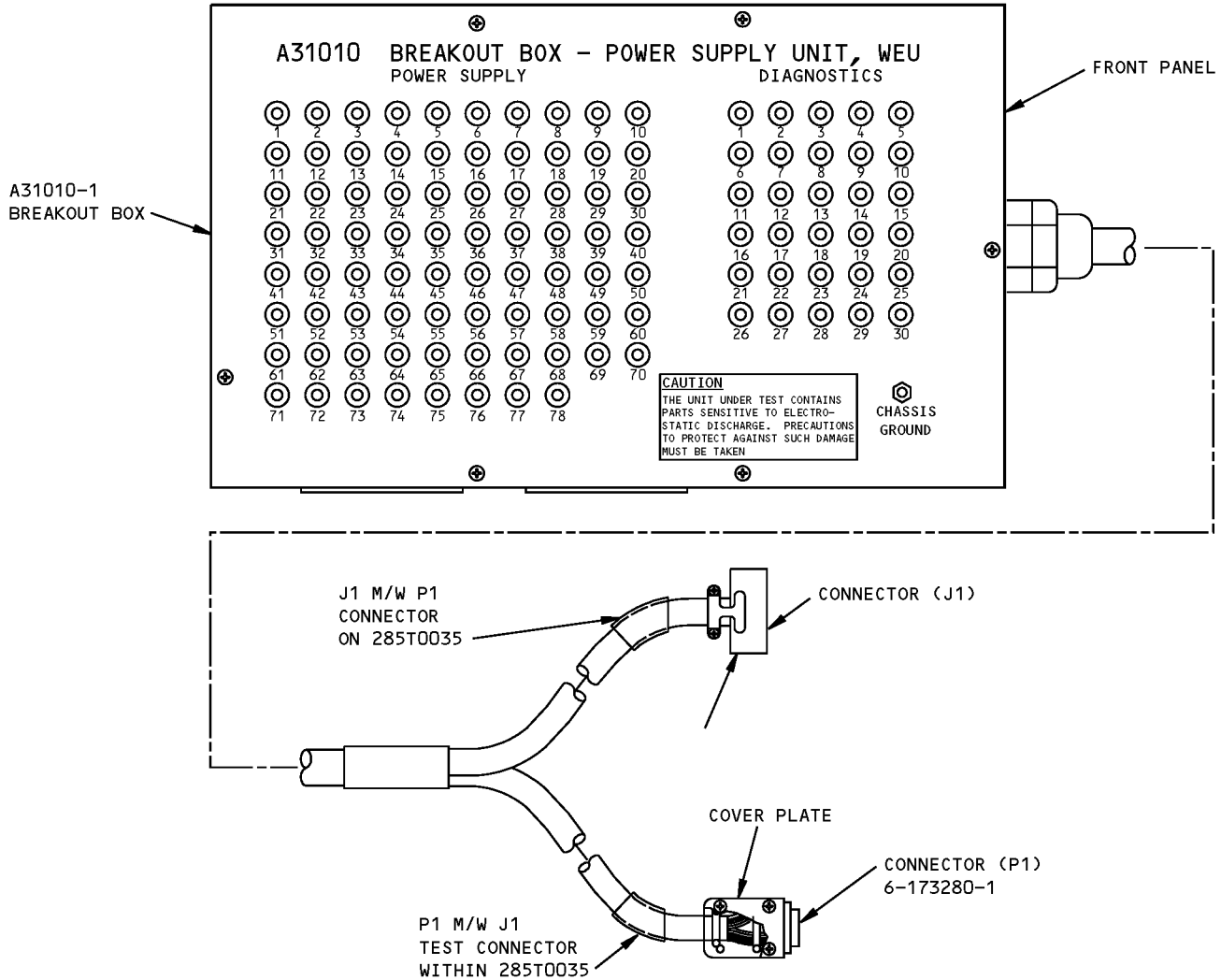
USAGE & DESCRIPTION: The A31010 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A31010 inclusion in the 757 ITEM is for information and historical purposes only.

The A31010-1 breakout box is used during component maintenance on 757 airplanes from line number 760 and on. A31010 is used to bench test the warning electronic unit power supply. Refer to CMM 31-51-21 for complete usage instructions. A31010-1 consists of a connector, banana jacks and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 5 lbs (2.3 kg)

DIMENSIONS: 5 x 11 x 17 inches (127 x 279 x 432 mm)

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WEU Power Supply Unit Breakout Box
Figure 1



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PART NUMBER: A31007-1, -30, -49, -59

NAME: ADAPTER CABLE - TESTER, DIGITAL FLIGHT RECORDER SYSTEM

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A31007 adapter cables are used to adapt the flight data recorder tester to the airplane's digital flight recorder system connector (D761 on the P61 panel) when using Sundstrand (Allied-Signal) or Teledyne testers on all 757 airplanes. Refer to the current A31007 drawing and AMM 31-31-00, AMM 31-31-05, AMM 31-31-08, AMM 31-31-09, AMM 31-31-10, AMM 31-31-13, AMM 31-31-14, AMM 31-31-15 and AMM 31-31-18 for complete usage instructions.

A31007-1 adapter cable is used in conjunction with Teledyne testers 2222786, 2227295 or 2225302 for reading Digital Flight Data Acquisition Unit (DFDAU) output (to Digital Flight Data Recorder (DFDR)) data of the flight recorder system test receptacle D761.

A31007-30 adapter cable is used in conjunction with Sundstrand (Allied-Signal) tester 981-6301-002 to route data from the flight recorder system test receptacle D761.

A31007-49 adapter cable is used in conjunction with Sundstrand (Allied-Signal) tester 981-6301-002 to route data from the flight recorder system test receptacle D761.

A31007-59 adapter cable is used with a 2229738 or a 2229738-1 Teledyne DFDAU tester to route data from the flight recorder system test receptacle D761.

A31007-1 consists of a A31007-2 cable assembly contained in a storage box.

A31007-30 consists of a A31007-32 cable assembly contained in a storage box.

A31007-49 consists of a A31007-35 cable assembly contained in a storage box.

A31007-59 consists of a A31007-60 cable assembly contained in a storage box.

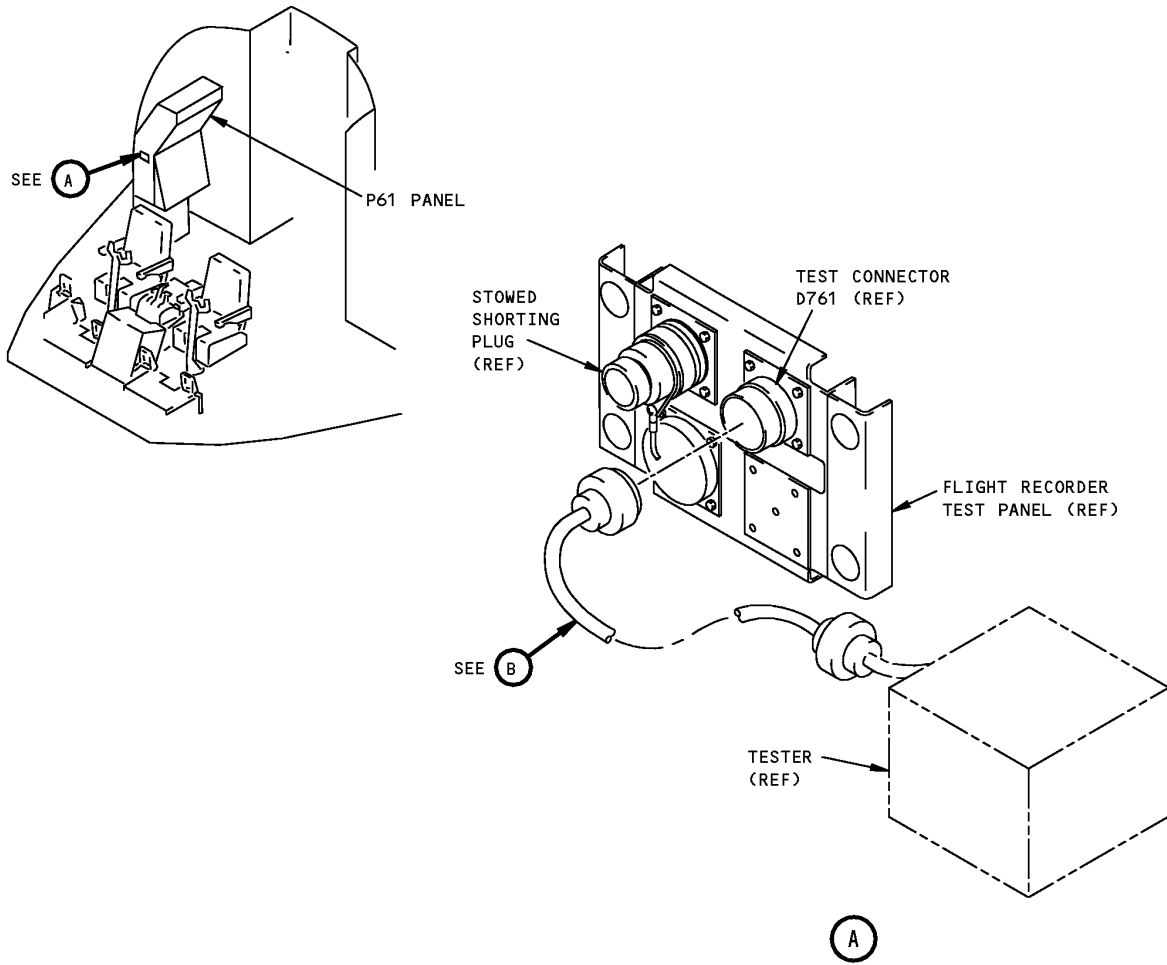
WEIGHT: 2 lbs (0.9 kg)

DIMENSIONS: 4 x 8 x 8 inches (102 x 203 x 203 mm)

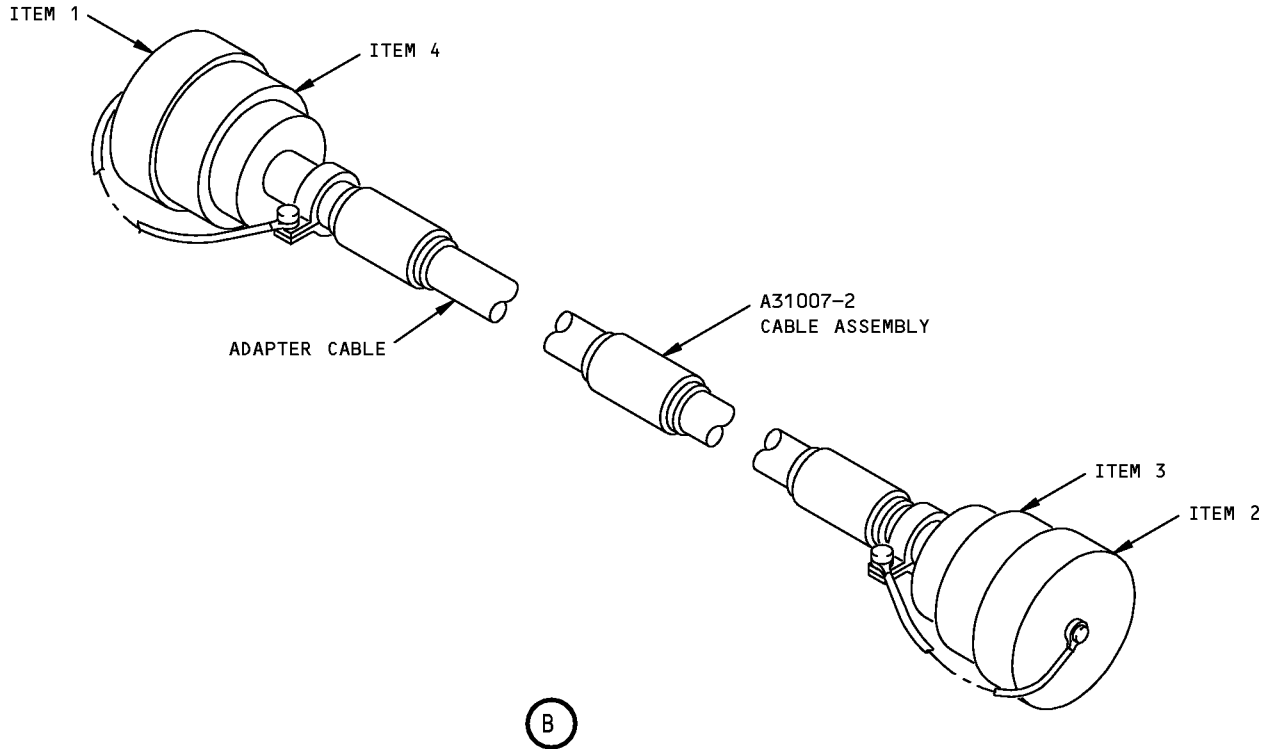
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NOTE:

A31007-59 supersedes A31007-11.
A31007-30 supersedes A31007-16.
A31007-49 replaces A31007-30 for future procurement.



**Digital Flight Recorder System Tester Adapter Cable
Figure 1 (Sheet 1 of 2)**



Digital Flight Recorder System Tester Adapter Cable
Figure 1 (Sheet 2 of 2)



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REPAIRABLE/REPLACEABLE PARTS * ^[1]			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	M83723/59-214AC	DUST CAP	
2	M83723/60-222AC	DUST CAP	
3	M83723/71R2255N	CONNECTOR	
4	M83723/76R1415N	CONNECTOR	

*^[1] A31007-2 CABLE ASSEMBLY ONLY, USED ON A31007-1 ADAPTER CABLE.



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PART NUMBER: B31001-1

NAME: CABLE - ADAPTER, BUS ANALYZER, ARINC 429

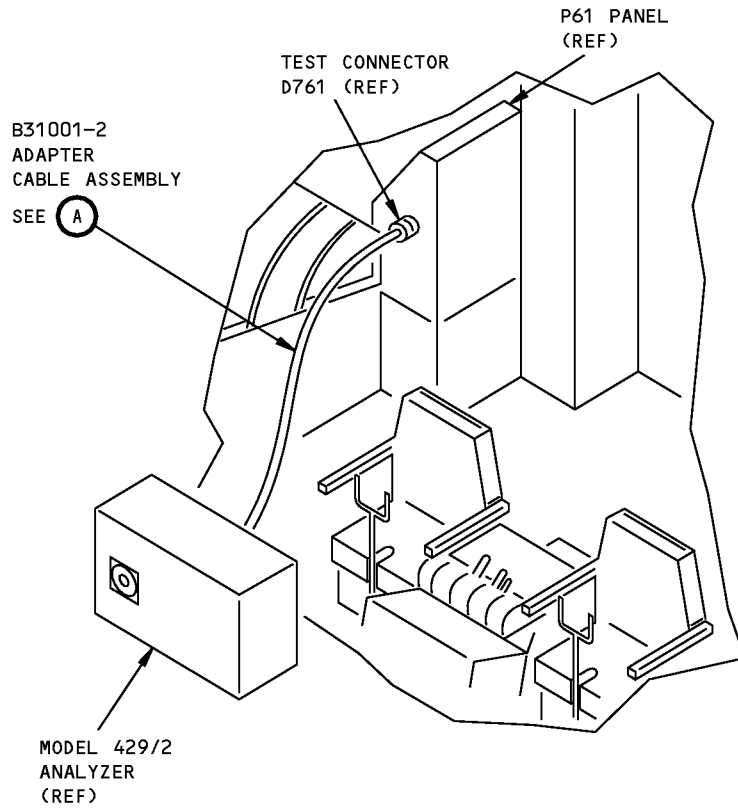
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B31001-1 cable has a limited use on 757 airplanes that incorporate Engineering Change Memo 3141MP5010 (NC901-NC950, NB061-NB070 and ND001-ND010). B31001 is used to adapt the ARINC 429 bus analyzer to the D761 digital flight recorder system test connector. Refer to AMM 31-31-00 and the current B31001 drawing for complete usage instructions. B31001-1 consists of a B31001-2 cable assembly contained in a storage box.

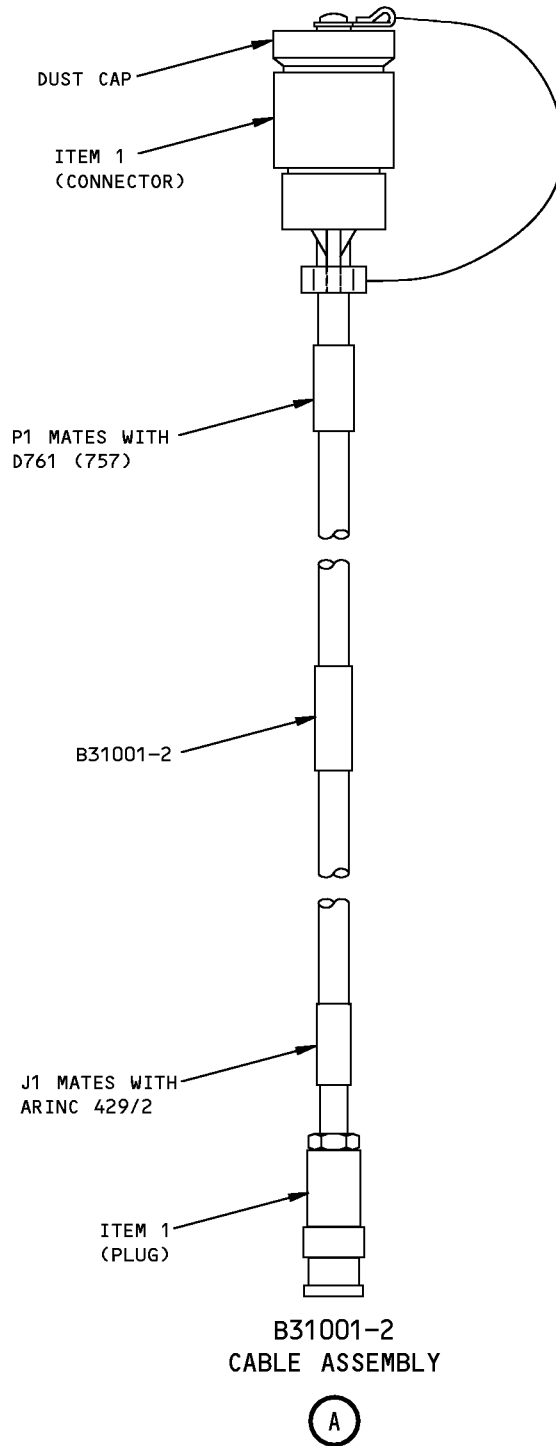
WEIGHT: 2 lbs (0.9 kg)

DIMENSIONS: 4 x 8 x 8 inches (102 x 203 x 203 mm)



**ARINC 429 Bus Analyzer Adapter Cable
Figure 1 (Sheet 1 of 2)**

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ARINC 429 Bus Analyzer Adapter Cable
Figure 1 (Sheet 2 of 2)



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REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	3600	CABLE PLUG	
2	M83723/76R1415	CONNECTOR	



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PART NUMBER: A31003-33, -34

NAME: TEST BOX - POWER SUPPLY, WARNING ELECTRONIC UNIT (WEU)

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A31003 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A31003 inclusion in the 757 ITEM is for information and historical purposes only.

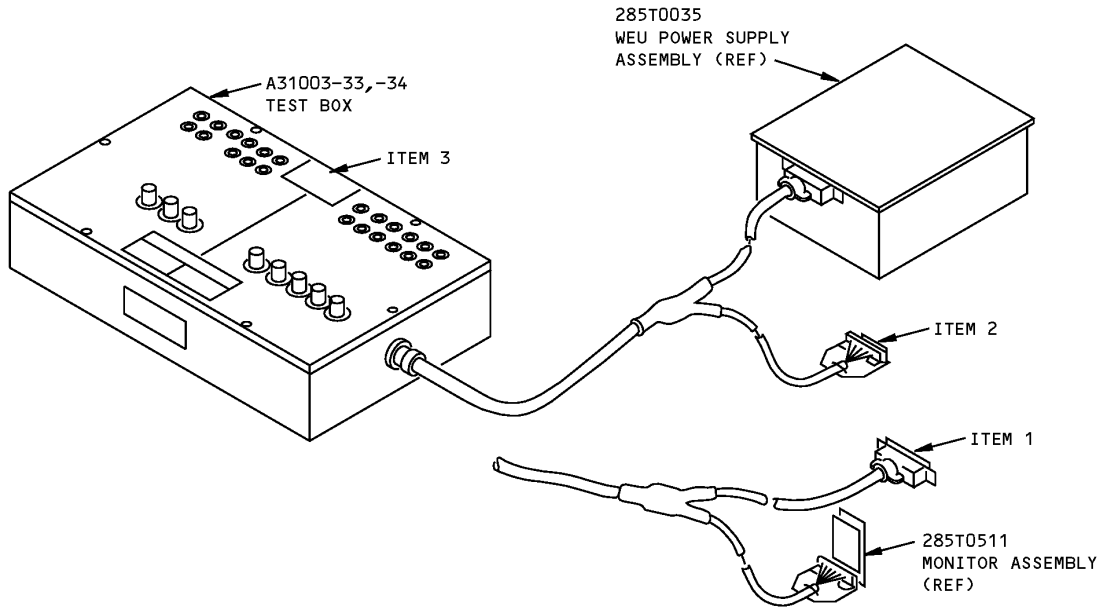
The A31003-33 or -34 test box is used during component maintenance on all 757 airplanes. A31003-33 is used on airplanes with WEU's with dash numbers less than 285T0035-11. A31003-34 is used on airplanes with WEU's with dash numbers 285T0035-11 or greater. A31003 is used to test the warning electronic unit power supply and monitor assembly. Refer to CMM 31-51-20 for complete usage instructions. A31003-33 or -34 consists of banana jacks, resistors, a connector, switches, potentiometers, a lamp, a fuse, regulators, rectifiers, transformers and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 9 lbs (4.1 kg)

DIMENSIONS: 5 x 11 x 17 inches (127 x 279 x 452 mm)

NOTE: A31003-33 supersedes A31003-25.
A31003-34 supersedes A31003-29.

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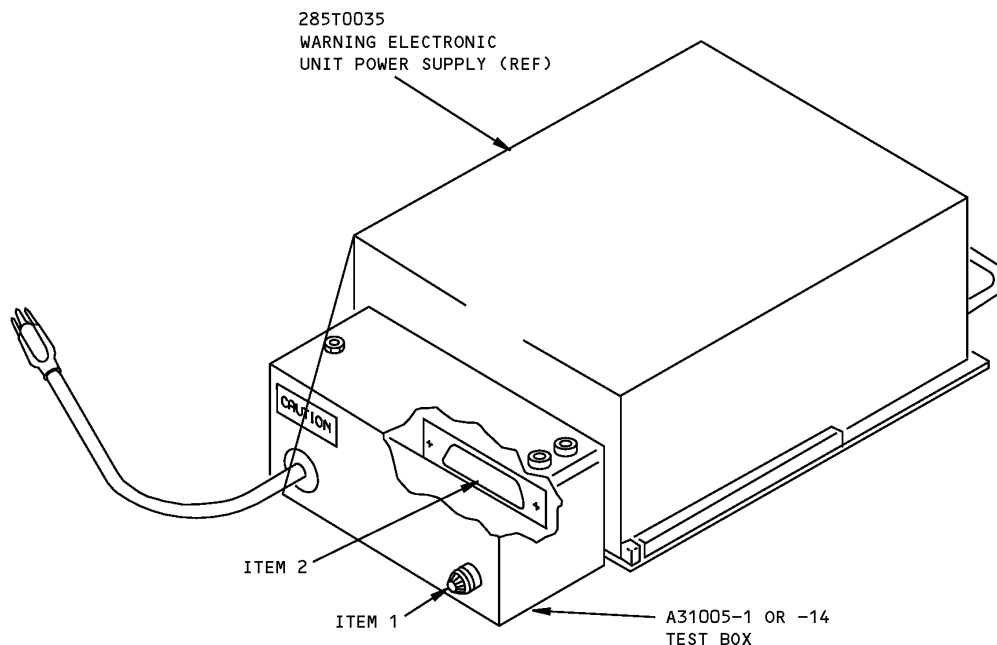
WEU POWER SUPPLY TEST BOX
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	DDMAM-78S	CONNECTOR	V71468
2	MDM-25PL39B	CONNECTOR	V71468
3	312003	FUSE	V75915

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PART NUMBER: A31005-1, -14**NAME:** TEST BOX - NOISE, WARNING ELECTRONIC UNIT (WEU) POWER SUPPLY**AIRPLANE MAINTENANCE:** NO**COMPONENT MAINTENANCE:** YES**USAGE & DESCRIPTION:** The A31005 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A31005 inclusion in the 757 ITEM is for information and historical purposes only.

The A31005-1 or -14 test box is used during component maintenance on all 757 airplanes. A31005 is used to perform a noise test on the warning electronic unit power. Refer to CMM 31-51-20 for complete usage instructions. A31005-1 or -14 consists of banana jacks, resistors, a fuse, a connector, a power cord and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 2 lbs (0.9 kg)**DIMENSIONS:** 3 x 3 x 5 inches (76 x 76 x 127 mm)**NOTE:** A31005-14 replaces A31005-1 for future procurement.

WEU Power Supply Noise Test Box
Figure 1



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REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	313005	FUSE	V75915
2	DDMAM-78S	CONNECTOR	V71468

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PART NUMBER: A31006-7

NAME: SHORTING MODULE - MASTER WARNING PRINTED CIRCUIT ASSEMBLY

AIRPLANE MAINTENANCE: YES

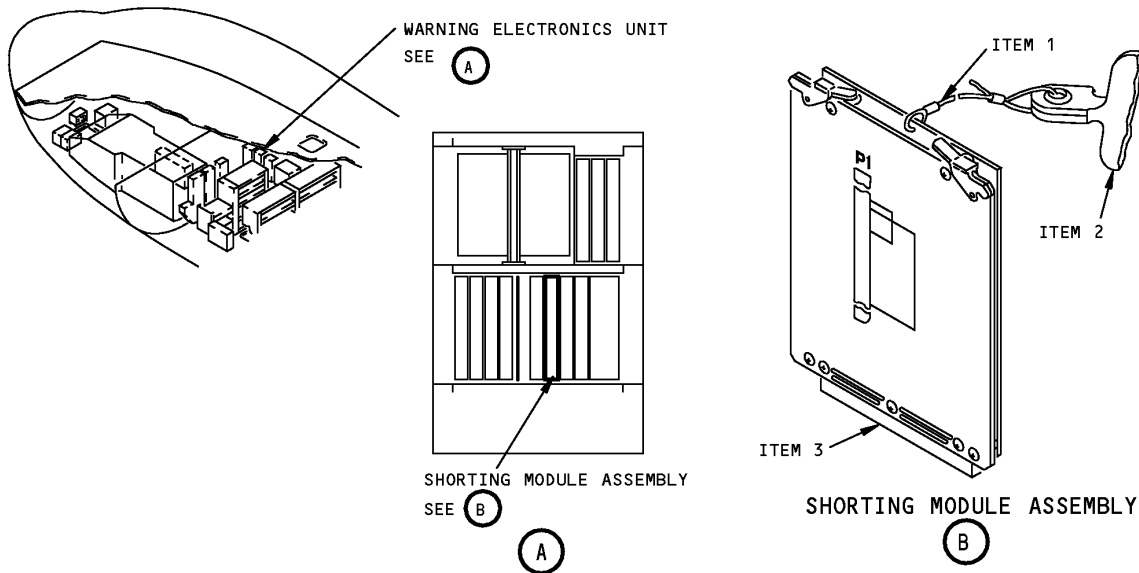
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A31006-7 shorting module is used on all 757 airplanes. A31006 places a ground on the output voltage circuit of the warning electronic unit power supply. The short circuit to ground causes a fault output signal from the warning electronic power supply. A31006-7 consists of a A31006-8 shorting module assembly contained in a storage box.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 1 x 6 x 8 inches (24 x 152 x 203 mm)

NOTE: A31006-7 supersedes A31006-5.



Master Warning Printed Circuit Assembly Shorting Module
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-22-KA-10.0-LR	LANYARD	V99862



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REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
2	NAS1756-24	WARNING STREAMER	
3	300044-001	CONNECTOR	V03877

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PART NUMBER: A31004-1

NAME: BREAKOUT BOX - POWER SUPPLY AND MONITOR, WARNING ELECTRONICS UNIT (WEU)

AIRPLANE MAINTENANCE: NO

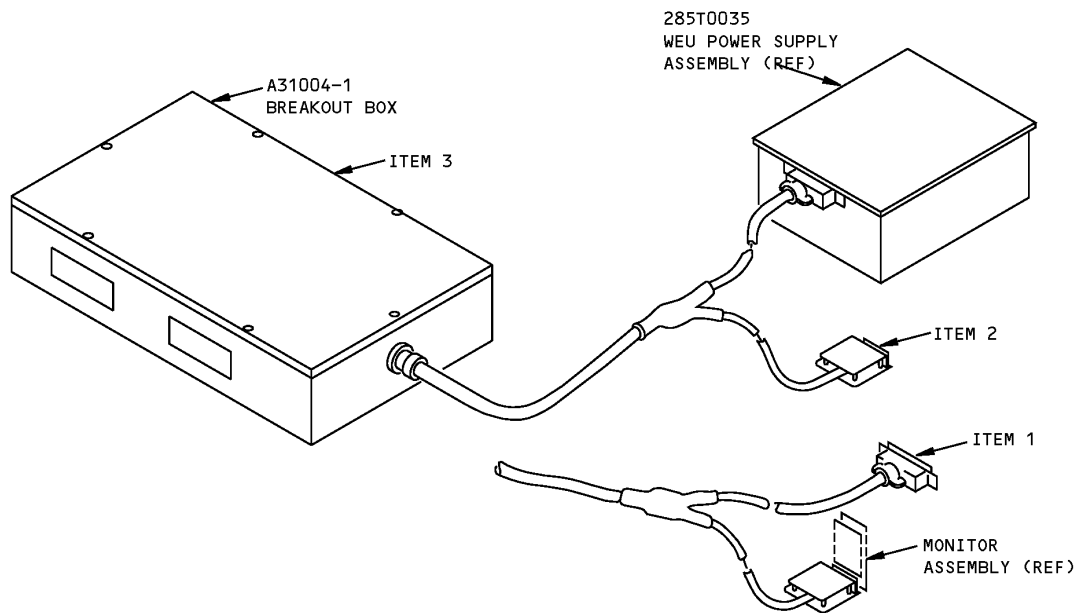
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A31004 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A31004 inclusion in the 757 ITEM is for information and historical purposes only.

The A31004-1 breakout box is used during component maintenance on all 757 airplanes. A31004 is used to test the warning electronic unit power supply and monitor assembly. Refer to CMM 31-51-20 for complete usage instructions. A31004-1 consists of banana jacks, connectors, and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 5 lbs (2.3 kg)

DIMENSIONS: 5 x 11 x 17 inches (127 x 279 x 452 mm)



WEU Power Supply And Monitor Breakout Box
Figure 1



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REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	DDMAM-78S	CONNECTOR	V71468
2	MDM25PL39B	CONNECTOR	V71468