

**CHAPTER**

**34**

**NAVIGATION**



**757**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**CHAPTER 34**  
**NAVIGATION**

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**PART NUMBER: A34011-1, -112**

**NAME:** BREAKOUT BOX EQUIPMENT - ARINC 600, LINE MAINTENANCE

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A34011-1 breakout box equipment is used on all 757 airplanes. The A34011-1 breakout box equipment consists of a breakout box and various cable assemblies that are used to probe ARINC 600 airplane connectors for continuity checking and interfacing ARINC 429 digital data bus analyzer with the airplane wiring.

The A34011-112 connector kit is used on all 757 airplanes. The A34011-112 connector kit provides an optional, lower cost method than using the A34011-1 breakout box equipment. Using the A34011-112 connector kit, each connector pin to be checked is selected by the user with the aid of the Fault Isolation Manual (FIM) and appropriate wiring diagrams.

The A34011-1 breakout box equipment or A34011-112 connector kit usage varies with the equipment installed on the customer's airplane. Maintenance references include (but are not limited to) AMM 20-10-32, FIM Chapter 22, Auto Flight 22-11-00, 22-32-00, 22-41-00; FIM Chapter 23, Communications 23-11-00, 23-12-00, 23-12-00; FIM Chapter 27, Flight Controls 27-51-00; FIM Chapter 31 Indicating/Recording Systems 31-25-00, 31-41-00; FIM Chapter 32, Landing Gear 32-42-00; FIM chapter 34, Navigation 34-12-00, 34-21-00, 34-22-00, 34-25-00, 34-31-00, 34-33-00, 34-43-00, 34-45-00, 34-46-00, 34-51-00, 34-53-00, 34-55-00, 34-57-00, 34-57-00, 34-61-00; FIM Chapter 71 Power Plant EPCS Message Index; FIM Chapter 73 Engine Fuel and Control 73-21-00; and FIM Chapter 77 Engine Indicating 77-31-00, for complete usage instructions.

A34011-1 and -112 consist of:

A34011-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	BREAKOUT BOX ASSEMBLY	A34011-2
1	ADAPTER CABLE ASSEMBLY	A34011-66
1	ADAPTER CABLE ASSEMBLY	A34011-67
1	ADAPTER CABLE ASSEMBLY	A34011-68
1	ADAPTER CABLE ASSEMBLY	A34011-69
1	ADAPTER CABLE ASSEMBLY	A34011-70
1	ADAPTER CABLE ASSEMBLY	A34011-71
1	ADAPTER CABLE ASSEMBLY	A34011-72
1	ADAPTER CABLE ASSEMBLY	A34011-73



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A34011-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	ADAPTER CABLE ASSEMBLY	A34011-100
1	DATA PACKAGE	A34011-132
1	STORAGE BOX	

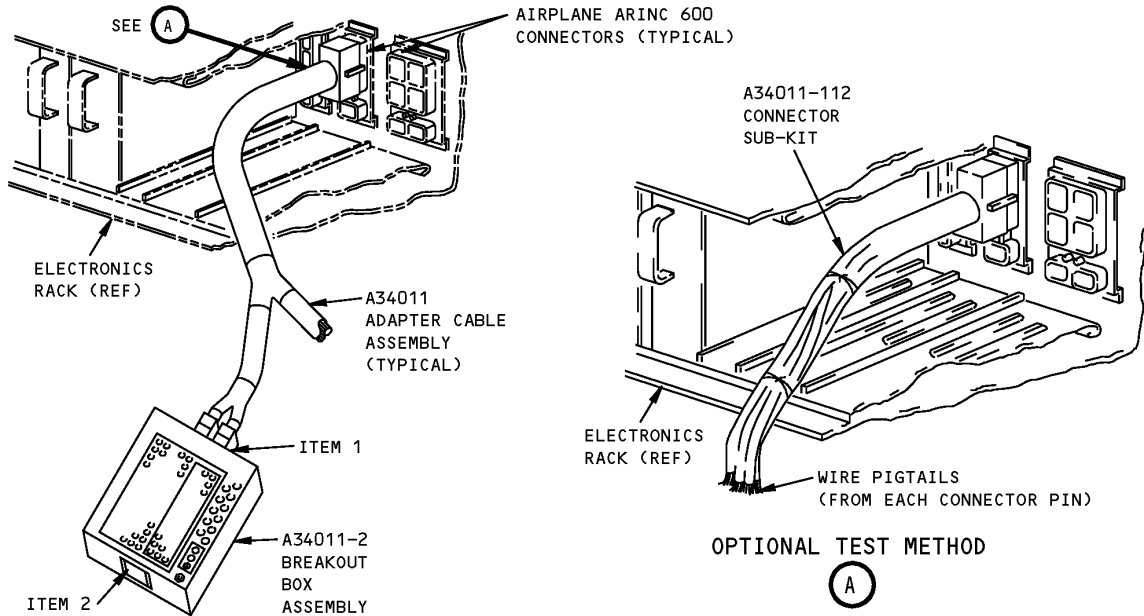
A34011-112		
QUANTITY	NOMENCLATURE	PART NUMBER
1	CONNECTOR	BKA111623
1	CONNECTOR	BKA111625
1	CONNECTOR	BKA111627
1	CONNECTOR	BKA111640
1	CONNECTOR	BKA111640-001
1	STORAGE BOX	

**WEIGHT:** A34011-1 - 25 lbs (11 kg)

**DIMENSIONS:** A34011-1 - 16 x 24 x 24 inches (406 x 610 x 610 mm)

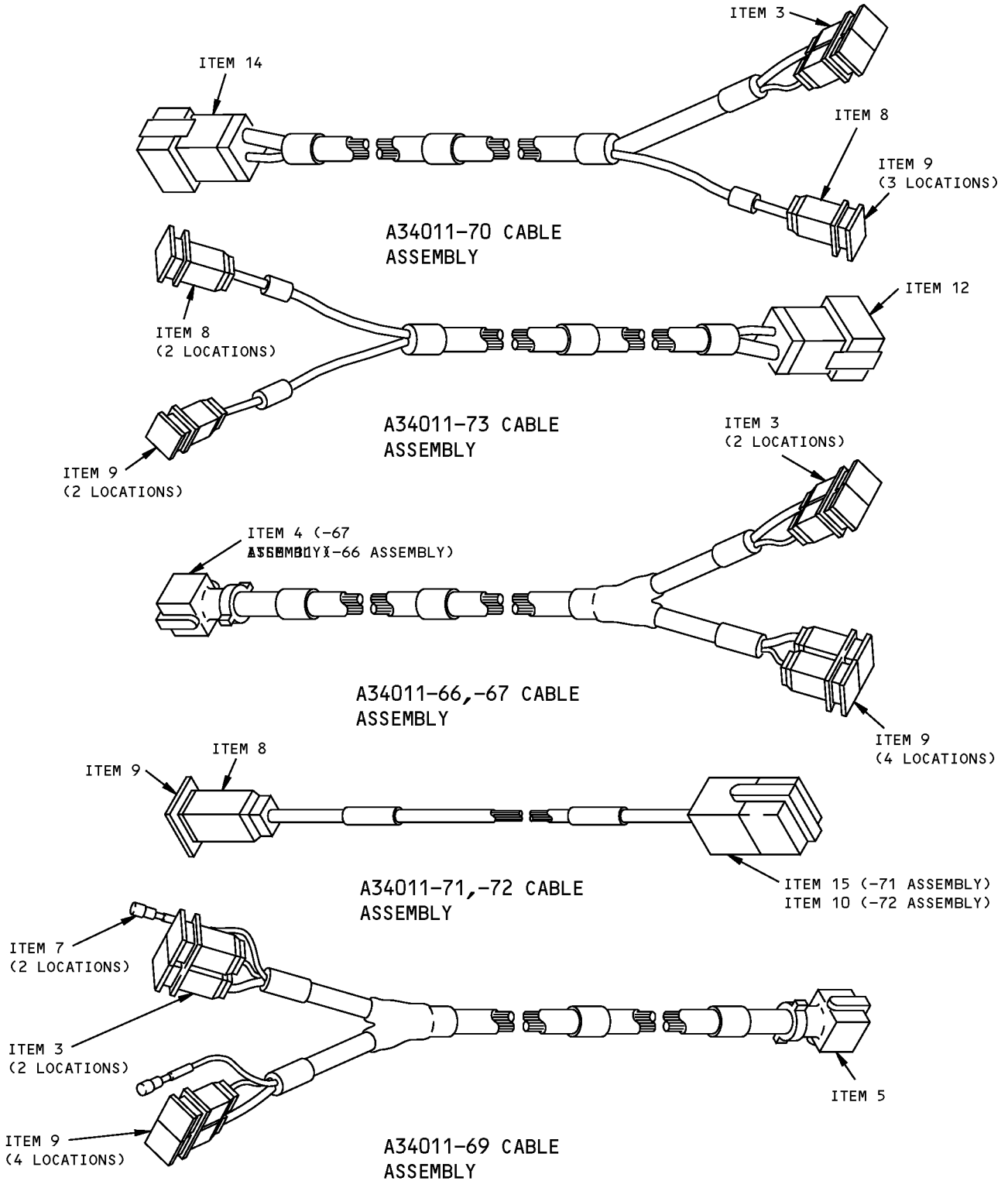
**NOTE:** A34016 replaces A34011-1 and -112 for future procurement.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



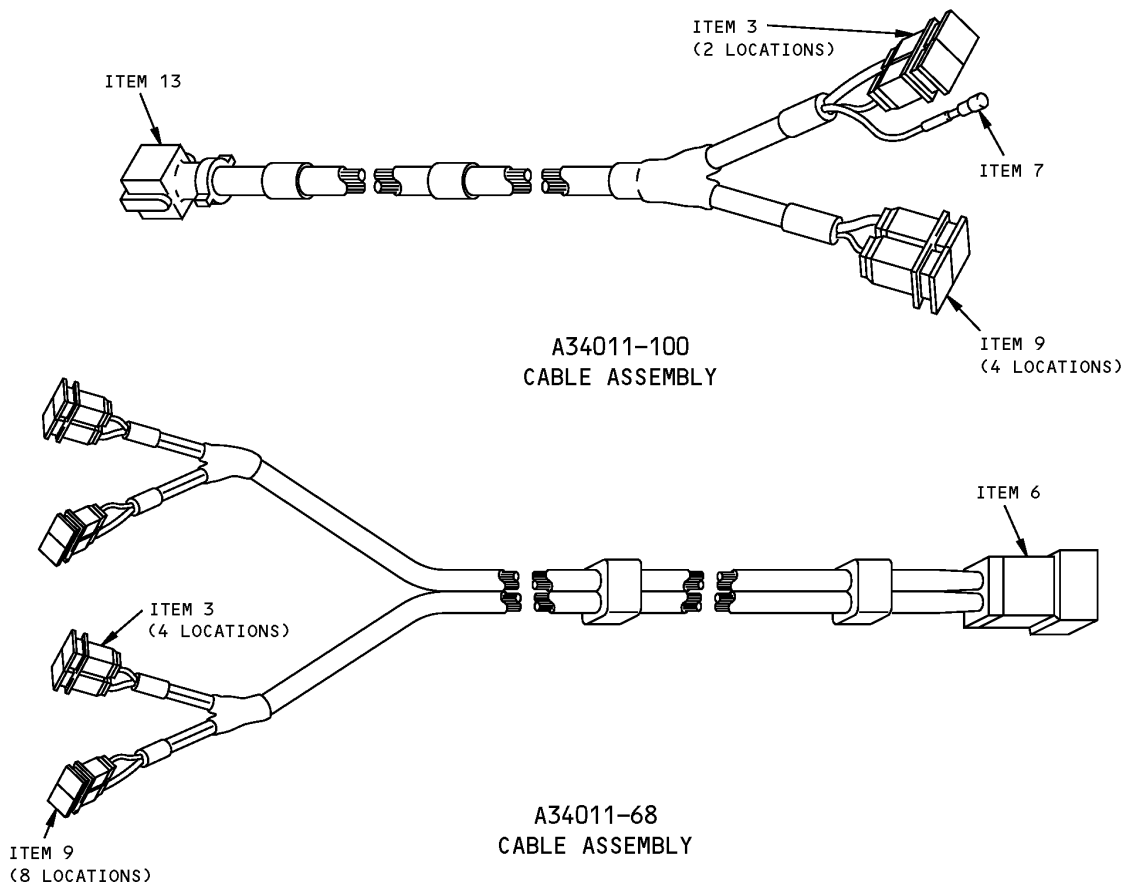
**ARINC 600, Line Maintenance Breakout Box Equipment  
Figure 1 (Sheet 1 of 3)**

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**ARINC 600, Line Maintenance Breakout Box Equipment  
Figure 1 (Sheet 2 of 3)**

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**ARINC 600, Line Maintenance Breakout Box Equipment**  
**Figure 1 (Sheet 3 of 3)**

<b>REPAIRABLE/REPLACEABLE PAR</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	DPX2MA-A106S67S-34B-0000	CONNECTOR	V71468
2	DPXAMA25W3-34P	CONNECTOR	V71468
3	DPX2MA-A106P67P-33B-1401	CONNECTOR	V71468
4	BKA111623	CONNECTOR	V71468
5	BKA111640	CONNECTOR	V71468
6	BKA111627	CONNECTOR	V71468
7	82-61	COAX CONNECTOR	V02660
8	DPXAMA25W3-33S	CONNECTOR	V71468





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REPAIRABLE/REPLACEABLE PAR			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
9	DPXA-59	DUST CAP	V71468
10	BKA111624	CONNECTOR	V71468
11	BKA111625	CONNECTOR	V71468
12	BKA111626	CONNECTOR	V71468
13	BKA111640-001	CONNECTOR	V71468
14	BKA111641	CONNECTOR	V71468
15	BKA111622	CONNECTOR	V71468



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**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A34013-1, -18**

**NAME:** TEST BOX - CONTROL PANEL POWER SUPPLY

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A34013 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34013 inclusion in the 757 ITEM is for information and historical purposes only.

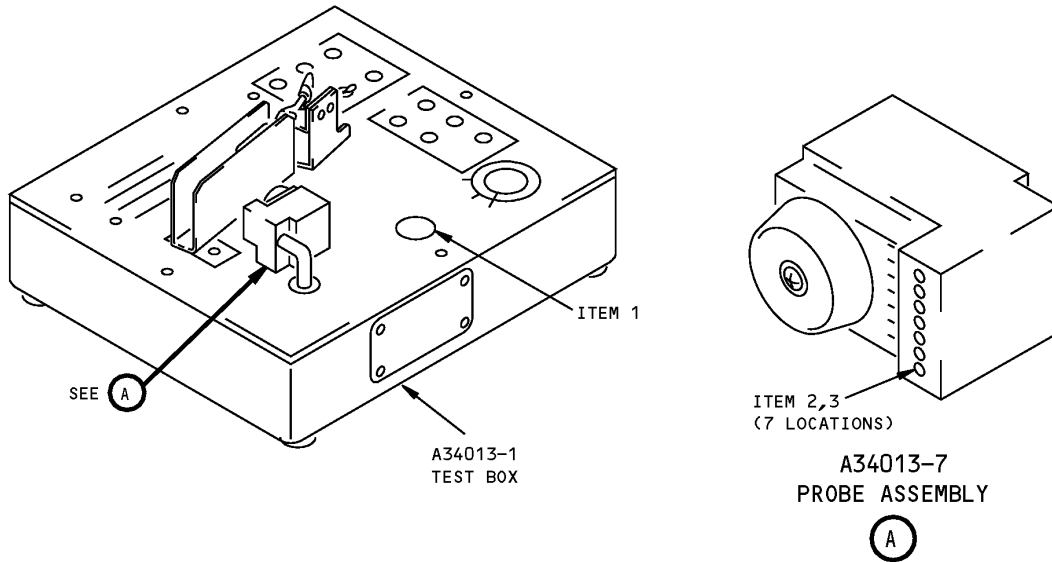
The A34013-1 test box is used during component maintenance on 757 airplanes equipped with a 285T0433 control panel power supply. The A34013-18 test box is used during component maintenance on 757 airplanes equipped with a 285T0542 or 285T0433 control panel power supply. A34013 is used to functionally test the 285T0542 or 285T0433 control panel power supply. A34013 is used in conjunction with a Keithley 173A digital multimeter (or equivalent); a 0 to 115 VAC, 400Hz, 100 milliamp AC power supply; a 100 milliamp, 2% accuracy ammeter; a 150 V, 2% accuracy AC voltmeter and a Tektronix 454 oscilloscope (or equivalent). Refer to CMM 34-09-52 and CMM 34-09-53 for complete usage instructions. A34013-1 or A34013-18 consists of a switch, resistors, banana jacks, a lamp, a fuse and electrical circuitry mounted on a panel and chassis assembly.

**WEIGHT:** 5 lbs (2.3 kg)

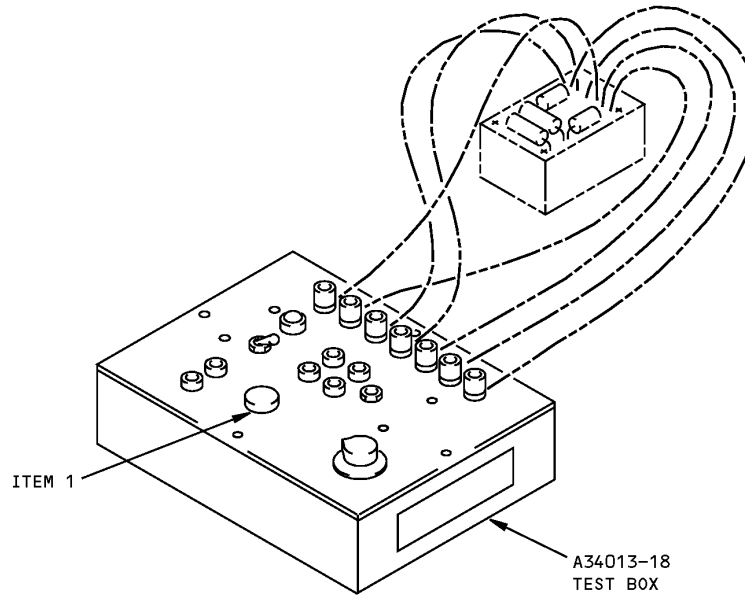
**DIMENSIONS:** 6 x 10 x 15 inches (102 x 178 x 229 mm)

**NOTE:** A34013-18 replaces A34013-1 for future procurement.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Control Panel Power Supply Test Box  
Figure 1 (Sheet 1 of 2)**



**Control Panel Power Supply Test Box  
Figure 1 (Sheet 2 of 2)**



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REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	312.250	FUSE	V75915
2	55062	PROBE RECEPTACLE	V76918
3	204057	TEST PROBE	V76918



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: C34005-1, -16,**

**NAME:** EXTENDER BOX - RADIO ALTIMETER RECEIVER TRANSMITTER

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The C34005-1 or -16 (preferred) has a limited effectivity. C34005 is used on 757 airplanes that are equipped with AlliedSignal ALA-52B radar altimeter receiver-transmitter (part number 066-50007-0101). C34005 extender box is used in place of a radio altimeter (RA) receiver-transmitter (RT). C34005 permits an external radio altitude signal input on bus 1 and/or bus 2 during warning system EFIS (electronic flight instrument system), RA system, TCAS (traffic alert and collision avoidance system), or GPWS (ground proximity warning system) maintenance system tests. Refer to AMM 34-33-00 and the current C34005 drawing for complete usage information.

C34005-1 consists of a C34005-2 extender box assembly contained in a storage case.

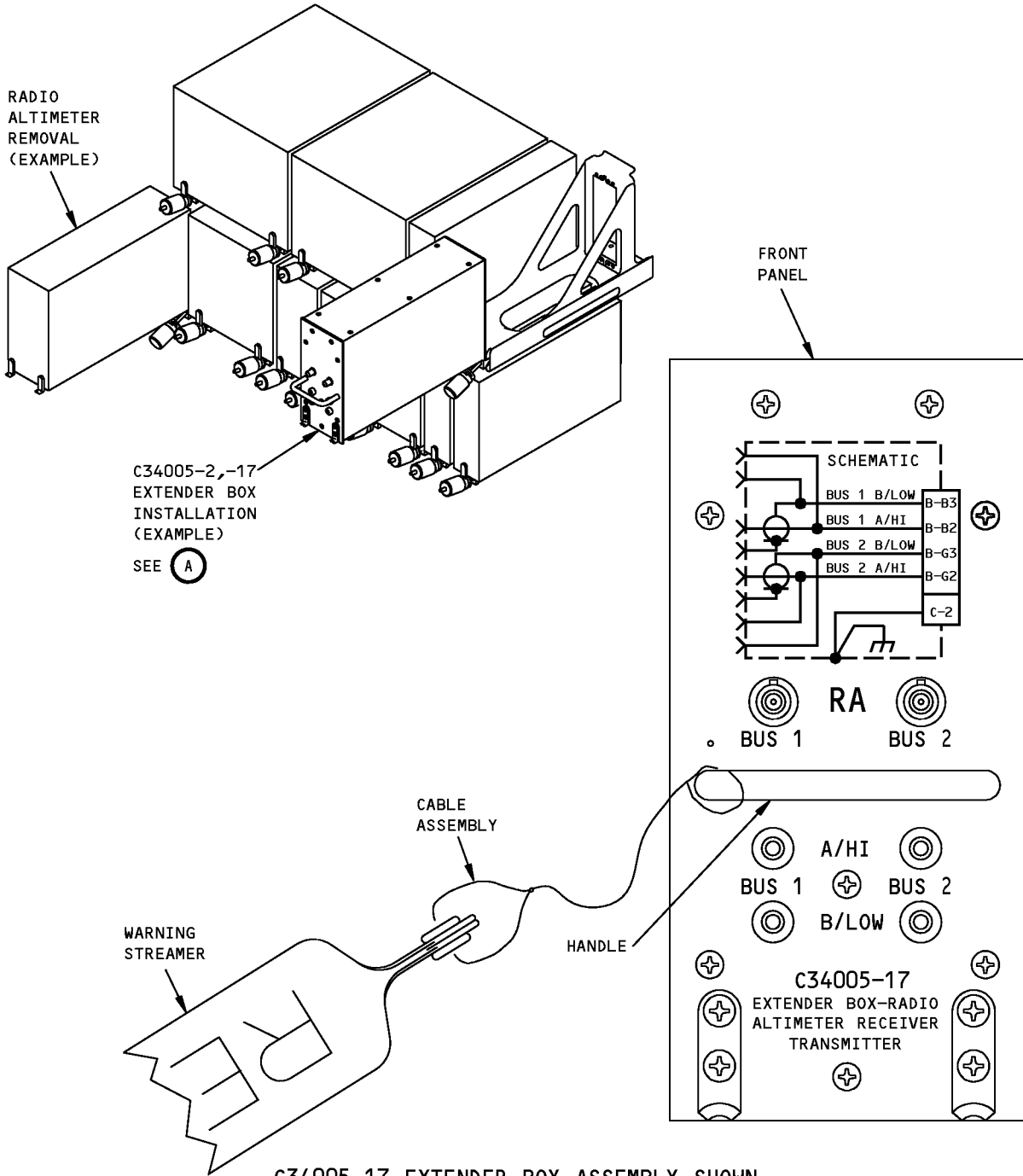
C34005-16 consists of a C34005-17 extender box assembly contained in a storage case.

**WEIGHT:** 9 lbs (4.1 kg)

**DIMENSIONS:** 7 x 15 x 19 inches (178 x 381 x 483 mm)

**NOTE:** C34005-16 replaces C34005-1 for future procurement.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



C34005-17 EXTENDER BOX ASSEMBLY SHOWN  
C34005-2 SIMILAR

**A**

L91163 S0000214218\_V2

**Radio Altimeter Receiver Transmitter Extender Box**  
**Figure 1**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: C34006-53, -57**

**NAME:** ADAPTER, TRAY - ELECTRONIC FLIGHT INSTRUMENTS SYSTEM (EFIS) SYMBOL GENERATOR SOFTWARE LOADING

**AIRPLANE MAINTENANCE:** YES

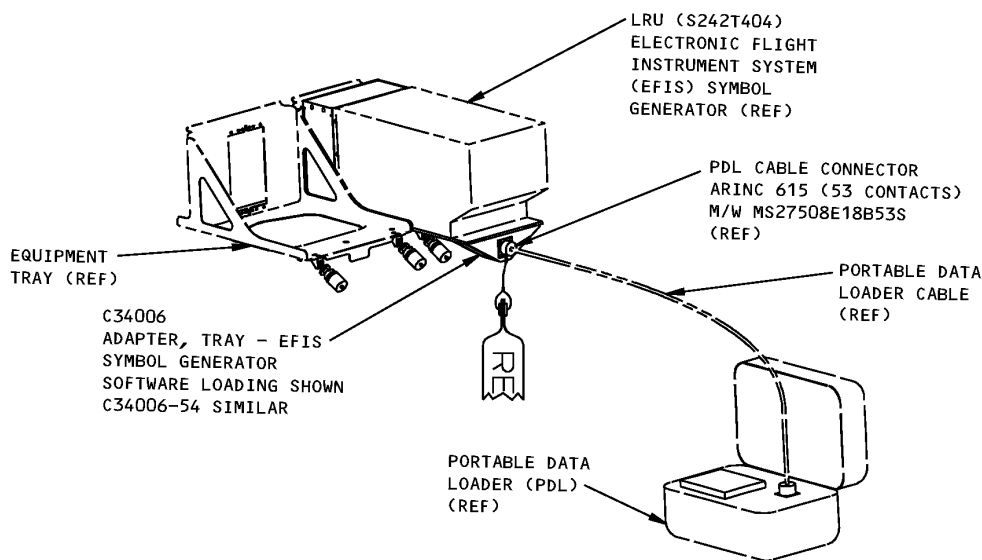
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The C34006-53 or -57 (preferred) adapter tray is used on all 757 airplanes. C34006 is used to load software into the S242T404 EFIS symbol generator. Refer to AMM 34-22-00 for complete usage instructions. The C34006-53 adapter tray consists of C34006-54 system generator load equipment contained in a storage box. The C34006-57 consists of C34006-58 system generator load equipment contained in a storage box.

**WEIGHT:** 9 lbs (4.1 kg)

**DIMENSIONS:** 8 x 10 x 19 inches (203 x 254 x 483 mm)

**NOTE:** C34006-53 supersedes C34006-1 .  
C34006-57 replaces C34006-53 for future procurement.



**EFIS Symbol Generator Software Loading Adapter Tray  
Figure 1**



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PART NUMBER: A34012-1, -19, -24

NAME: TEST FIXTURE - ANGLE OF ATTACK (AOA)

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A34012-1 or -25 (preferred) test fixtures are used on all 757 airplanes. A34012-1 or -25 is used to accurately measure the AOA sensor deflection on the airplane. Refer to AMM 34-12-00 for complete usage instructions. A34012-24 incorporates a vernier and circle which are different from those used on A34012-1. If necessary, A34012-1 may be reworked into an A34012-24.

The A34012-19 checking fixture is required to calibrate the A34012-1 or A34012-25 test fixtures. A34012-19 The test fixture is used to calibrate AOA deflection and realign the sensor, as required. When using the A34012-19 checking fixture, the allowable difference between either A34012-1 or A34012-24 and A34012-19 is five minutes of angle.

A34012-1, -24 and -19 consist of:

A34012-1 TEST FIXTURES		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FIXTURE ASSEMBLY	A34012-2

A34012-24 TEST FIXTURES		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FIXTURE ASSEMBLY	A34012-2
1	STORAGE BOX	

A34012-19 CHECKING FIXTURE		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FIXTURE ASSEMBLY	A34012-36
1	STORAGE BOX	

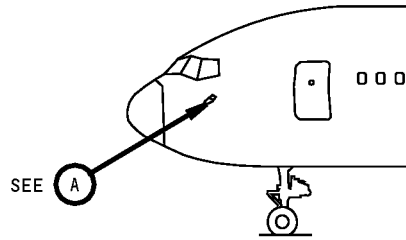
WEIGHT: A34012-1 and -24 - 3 lbs (1.4 kg)  
A34012-19 - 1 lb (0.45 kg)

DIMENSIONS: A34012-1 and -24 - 4 x 7 x 11 inches (102 x 178 x 279 mm)  
A34012-19 - 2 x 3 x 5 inches (51 x 76 x 127 mm)

NOTE: J34002 replaces A34012 for future procurement.  
A34012-24 replaces A34012-1.

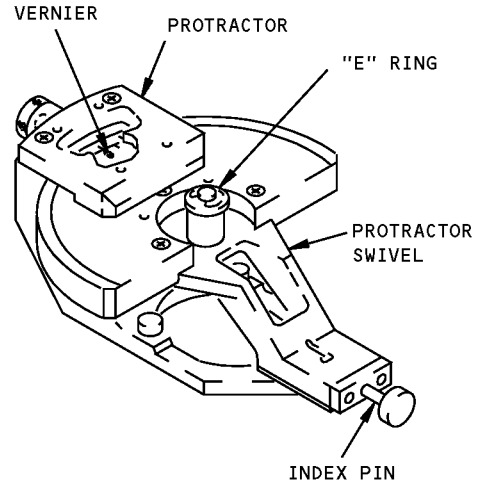
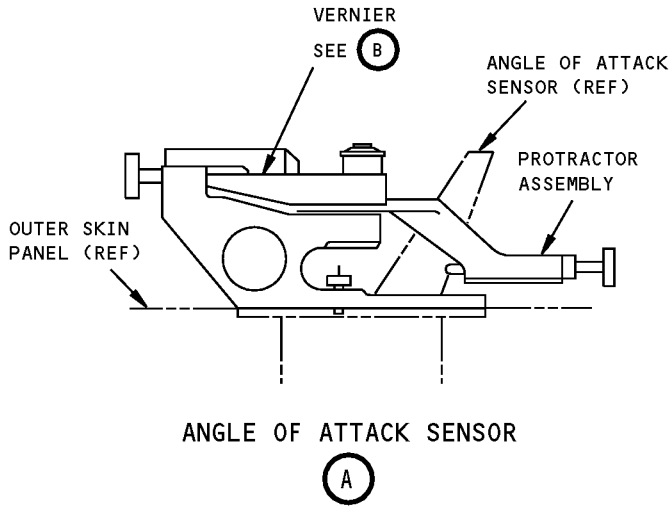


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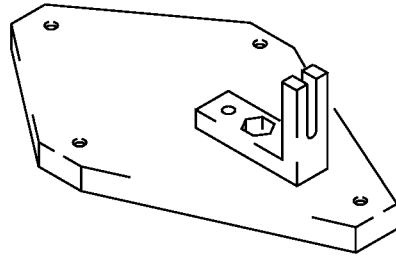
**AOA Test Fixture**  
**Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



A34012-25 FIXTURE ASSEMBLY SHOWN  
A34012-2 SIMILAR

(B)



A34012-19  
CHECKING FIXTURE

**AOA Test Fixture  
Figure 1 (Sheet 2 of 2)**

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**PART NUMBER: J34002-18, -19**

**NAME:** TEST FIXTURE - ANGLE OF ATTACK

**AIRPLANE MAINTENANCE:** YES

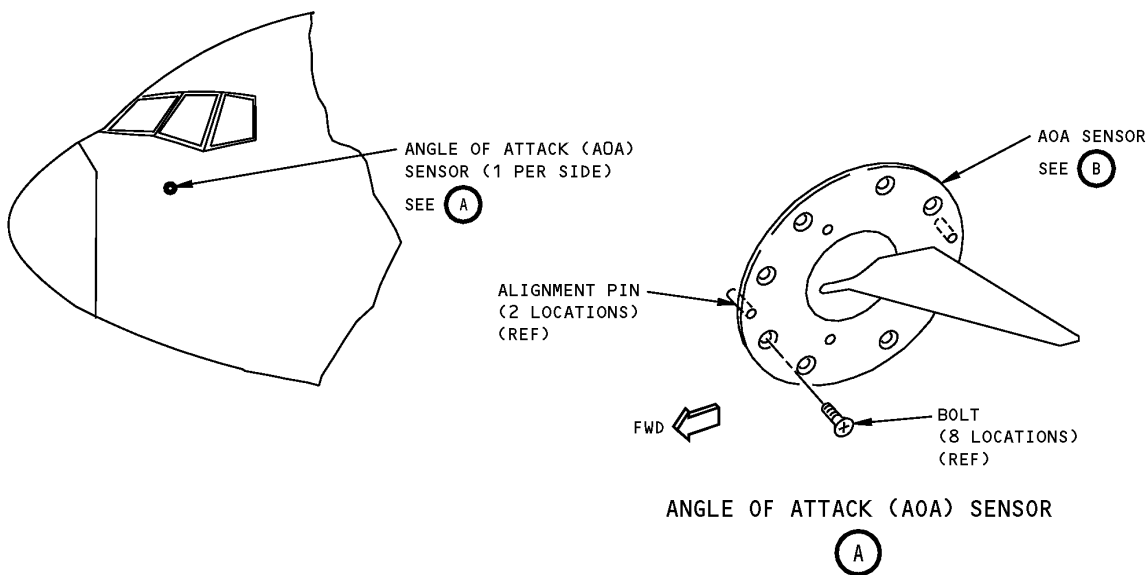
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The J34002-18 or -19 test fixture is used on all 757 airplanes. J34002 is used to accurately measure the angle of attack sensor deflection and for periodic alignment. Refer to AMM 34-12-00 and AMM 34-12-03 for complete usage instructions. J34002-18 consists of two J34002-20 fixture assemblies contained in storage box. J34002-19 consists of two J34002-21 fixture assemblies contained in storage box.

**WEIGHT:** 5 lbs (2.3 kg)

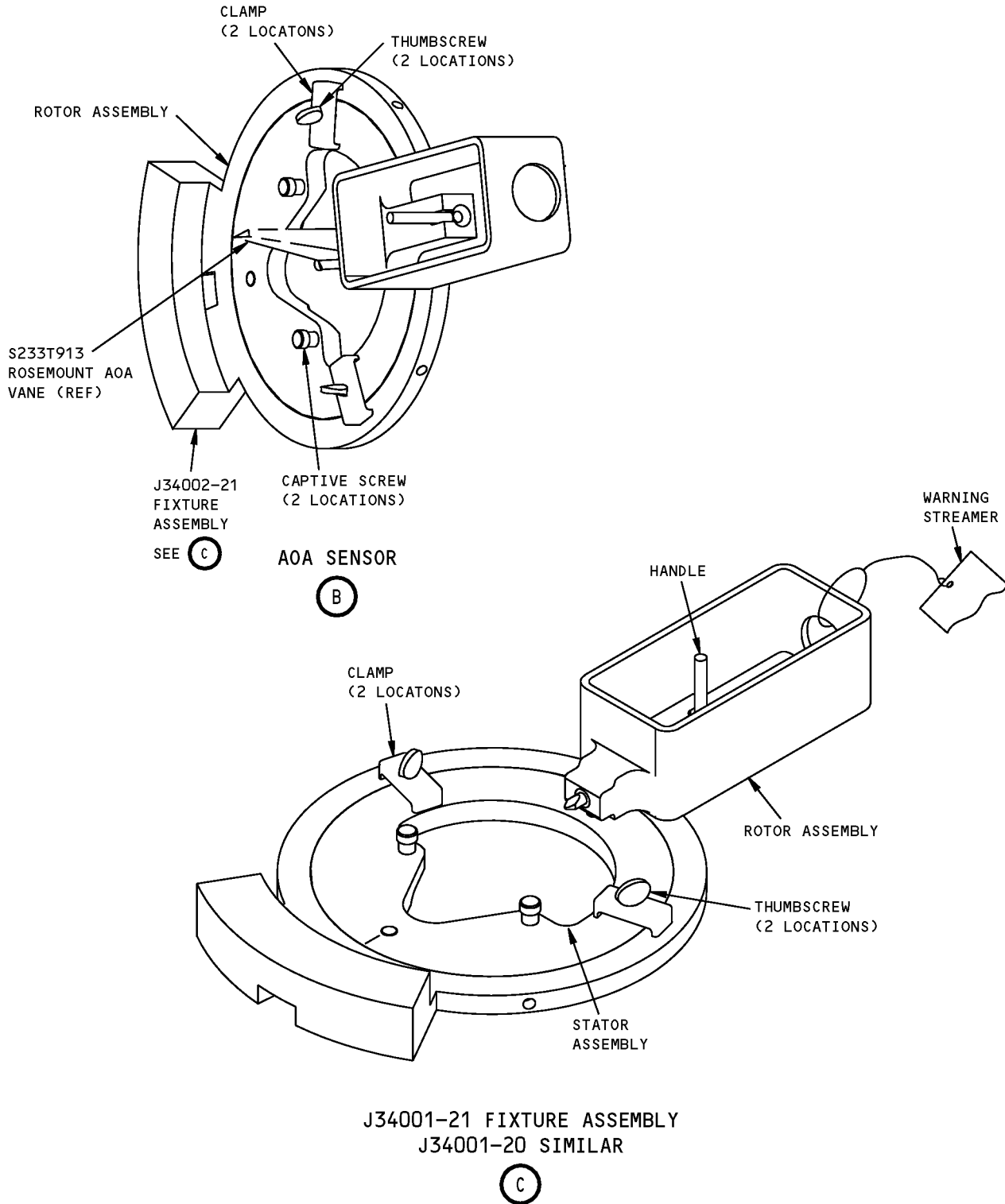
**DIMENSIONS:** 3 X 15 X 20 inches (76 x 381 x 508 mm)

**NOTE:** J34002 replaces A34012 for future procurement.  
 J34002-19 replaces J34002-18 for future procurement.  
 J34002-18 supersedes J34002-1.



**Angle Of Attack Test Fixture  
 Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Angle Of Attack Test Fixture  
Figure 1 (Sheet 2 of 2)**



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER:** A34016-1, -2, -5, -7, -8, -9, -10, -11, -16, -21, -22, -23, -24, -27, -28, -33, -34, -35

**NAME:** BREAKOUT BOX EQUIPMENT - ARINC 600, LINE MAINTENANCE

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

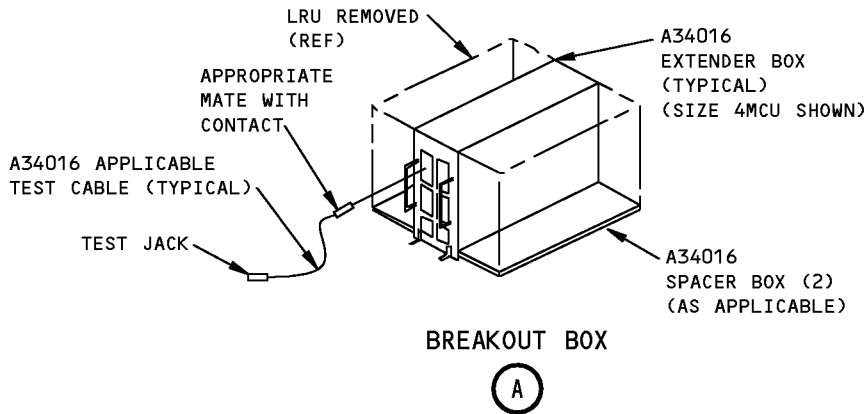
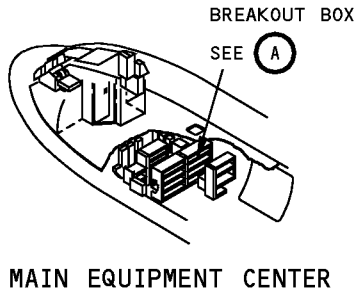
**USAGE & DESCRIPTION:** The A34016 breakout box equipment is used on all 737-300 thru -900, 747-400, 757, 767, 777 and 787 airplanes for signal and continuity checks. A34016 uses multiple breakout boxes and a few cables to analyze the various airplane systems wiring from the electronic equipment centers (ARINC 600 type rack connectors). The A34016-35 includes cable assembly/spacer equipment and is required for all trouble shooting using A34016 extender boxes. To use A34016, the applicable line replaceable unit (LRU) is removed from the electrical/electronics rack connector and replaced with the applicable breakout box and cable for a pin access. Applicable connectors, airplane maintenance manuals, fault isolation manuals or airplane schematic and wire diagrams are to be determined by the user. To determine which A34016 breakout box equipment is to be used, the A34016 drawing, Application Table "A," must be reviewed.

**WEIGHT:** A34016-35 - 22 lbs (10 kg) (cable/spacer equipment, including case)  
typical breakout box 12 lbs (5.4 kg)

**DIMENSIONS:** 7 x 13 x 16 inches (178 x 330 x 406 mm)

**NOTE:** A34016 replaces A34011 for future procurement.

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**NOTE:** THE CONTACTS ON THE FRONT PANEL OF THE A34016 EXTENDER BOXES ARE THE SAME PATTERN AS THE AIRPLANE PLUG CONNECTOR.

434893 S0000214266\_V2

**ARINC 600 Line Maintenance Breakout Box Equipment  
Figure 1 (Sheet 1 of 3)**



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### ILLUSTRATED TOOL AND EQUIPMENT MANUAL

BREAKOUT BOX APPLICATION TABLE	
EXTENDER BOX PART NUMBER	NOTES
A34016-1,(-36) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable. Mate-with BACC66F11X03 for SELCAL only. Airplane connector equipment D135.
A34016-2,(-38) EXTENDER BOX	Airplane typically has 6 or more LRU's that are applicable.
A34016-5,(-42) EXTENDER BOX	Airplane typically has 6 or more LRU's that are applicable.
A34016-7,(-44) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable. Mate-with BACC66H122 for an optional version of weather radar unit. Airplane connector equipment D159 and D1525.
A34016-8,(-46) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 3-5 LRU's that are applicable.
A34016-9,(-47) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 3-5 LRU's that are applicable.
A34016-10,(-48) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable. Mate-with BACC66H24 for an optional version of weather radar unit. Airplane connector equipment D159 and D1525. (see A34016-44)
A34016-11,(-49) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable. Mate-with BACC66H26 for S345N001 fuel quantity processor airplane connector equipment D2440. Generally for airplane line numbers 380 and on. For S345T002 FQIS, use A26007 test box.
A34016-16,(-54) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable. Mate-with BACC66H34 for camera interface unit/audio management unit. Airplane connector equipment D3651.
A34016-21,(-59) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 3-5 LRU's that are applicable. Mate-with BACC66H40 for multimode receiver. Airplane connector equipment D2939,D2941 and D2943.

ARINC 600 Line Maintenance Breakout Box Equipment  
Figure 1 (Sheet 2 of 3)



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### ILLUSTRATED TOOL AND EQUIPMENT MANUAL

BREAKOUT BOX APPLICATION TABLE	
EXTENDER BOX PART NUMBER	NOTES
A34016-22,(-60) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable. Mate-with BACC66H41 for baseband units. Airplane connector equipment D4285.
A34016-23,(-61) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable. Mate-with BACC66H26 for radio frequency unit. Airplane connector equipment D4287.
A34016-24,(-62) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable. Mate-with BACC66H26 for power supply unit. Airplane connector equipment D4283.
A34016-27,(-65) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 3-5 LRU's that are applicable. Mate-with BACC66H40 for multimode receiver. Airplane connector equipment D2939,D2941 and D2943.
A34016-28,(-67) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 3-5 LRU's that are applicable. Mate-with BACC66K33 for S242N701 EICAS computer. Airplane connector equipment D319 and D321.
A34016-33,(-72) EXTENDER BOX	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable.
A34016-34,(-73) CABLE ASSEMBLY/SPACER EQUIPMENT	Limited Applicability. Customer specified option. Airplane typically has 1-2 LRU's that are applicable. Mate-with BACC66K39 for 285T1122 yaw damper module. Airplane connector equipment D3931 and D3933.
A34016-35	Required for all troubleshooting using A34016-X extender boxes.

ARINC 600 Line Maintenance Breakout Box Equipment  
Figure 1 (Sheet 3 of 3)





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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

### PART NUMBER: C34012-2

**NAME:** Test Box - Rosemount Total Air Temperature Probe, Air Data System

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The C34012-2 test box is used on 757 airplanes equipped with the Goodrich (formerly Rosemount) total air temperature sensor part numbers 102AH2AF, 102AH2AG, 102AH2AJ, 102CP2AG, 102LA2AG, or 102LJ2AG.

C34012 is used to connect a decade resistance box in place of the total air temperature probe while performing the air data system test

Refer to the current C34012 drawing and AMM 34-12-00 for complete usage instructions.

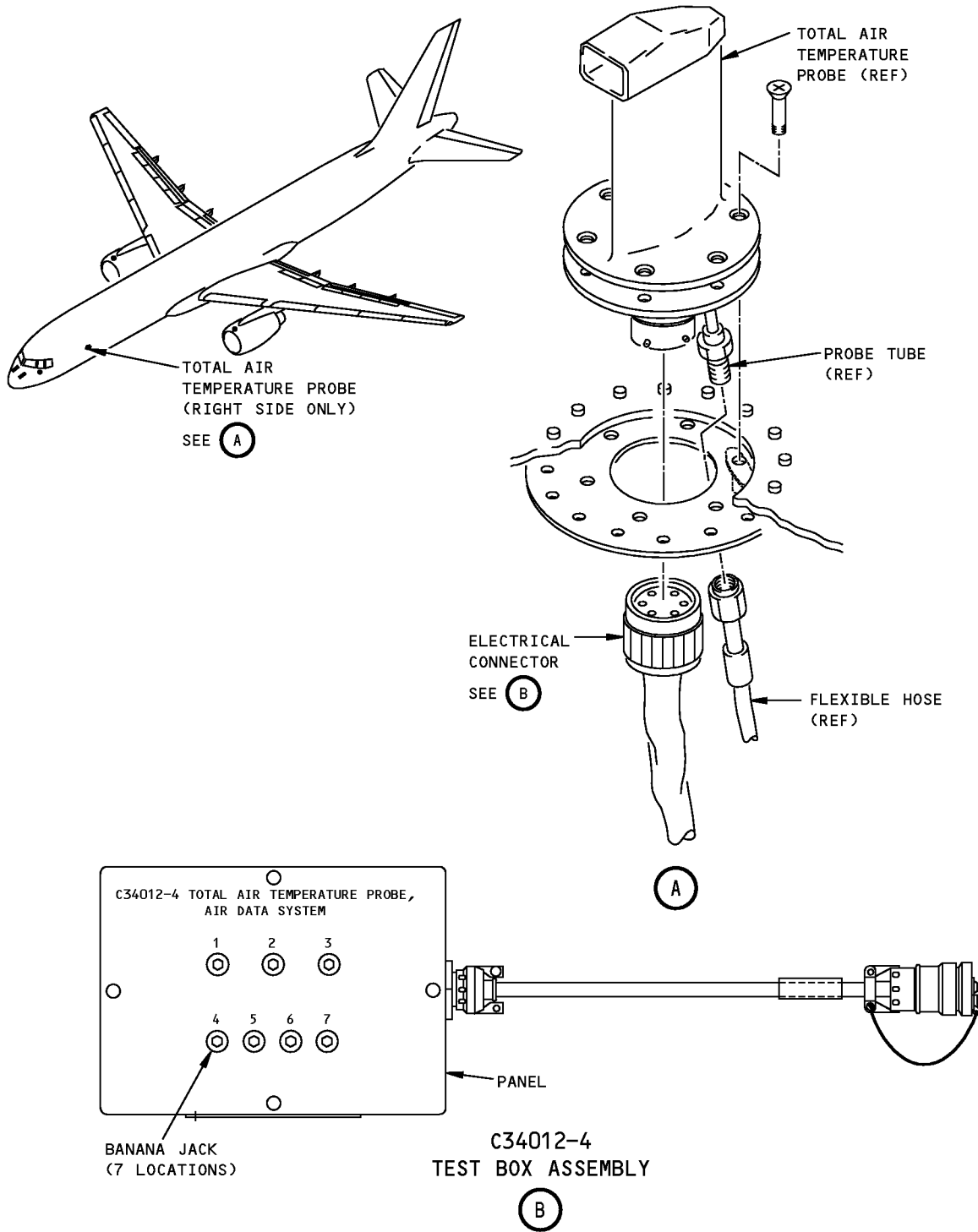
C34012-2 consists of:

C34012-2		
QUANTITY	NOMENCLATURE	PART NUMBER
1	TEXT BOX ASSEMBLY	C34012-4
1	STORAGE BOX	

**WEIGHT:** 4 lbs (1.8 kg)

**DIMENSIONS:** 5 x 5 x 10 inches (127 x 127 x 254 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



1597440 S0000295688\_V1

**Total Air Temperature Probe, Air Data System Test Box  
Figure 1**



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34008-1**

**NAME:** TEST BOX - FRONT MODULE, INSTRUMENT LANDING SYSTEM (ILS)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

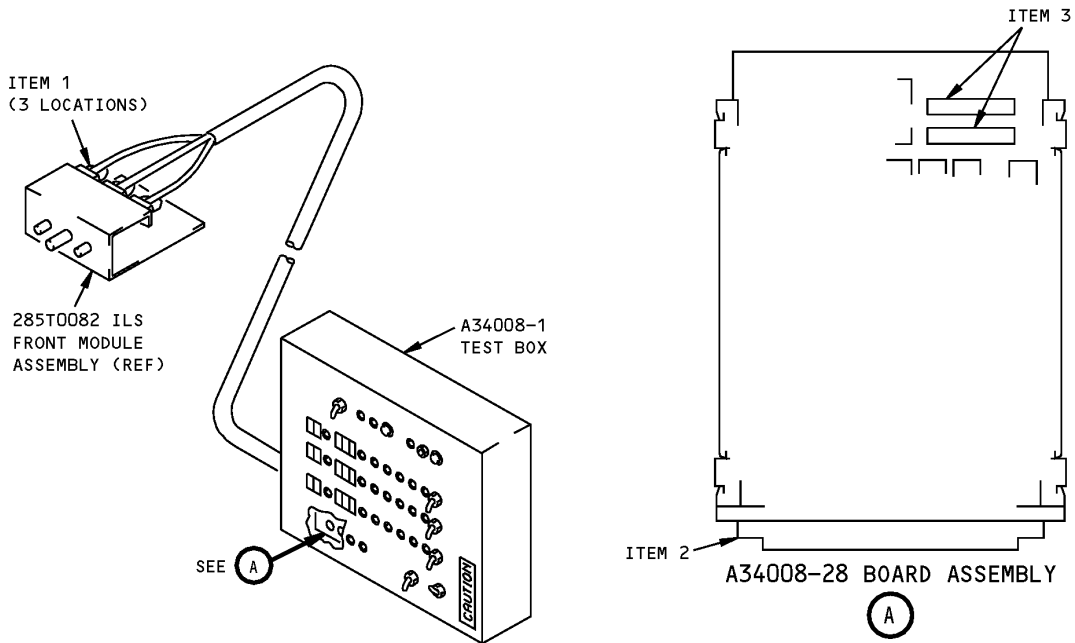
**USAGE & DESCRIPTION:** The A34008 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34008 inclusion in the 757 ITEM is for information and historical purposes only.

The A34008-1 test box is used during component maintenance on 757 airplanes typically, from line number 1 thru 21. A34008 is used only on the 757 airplanes that are equipped with ILS control panel assembly 285T0020-8, -9 or -10 and the associated 285T0082-10, -14, -16 or -17 front module assembly. A34008 is used to functionally test the 285T0082-10, -14, -16 or -17 rear module assembly. A34008 is used in conjunction with a 28 VDC, 3 Amp power supply and a 5 VDC, 3 Amp power supply. Refer to CMM 34-31-51 for complete usage instructions. A34008-1 consists of switches, resistors, connectors, LED's, lamps, potentiometers and electrical circuitry mounted on a panel and chassis assembly.

**WEIGHT:** 7 lbs (3.2 kg)

**DIMENSIONS:** 3 x 12 x 14 inches (76 x 305 x 356 mm)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



ILS Front Module Test Box  
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MDM-37PL39F	CONNECTOR	V71468
2	R636-2	EDGE CONNECTOR	V82893
3	56PR1K	POTENTIOMETER	V05721



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34007-33, -36**

**NAME:** TEST BOX - REAR MODULE AND CONTROL PANEL, INSTRUMENT LANDING SYSTEM (ILS)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A34007 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34007 inclusion in the 757 ITEM is for information and historical purposes only.

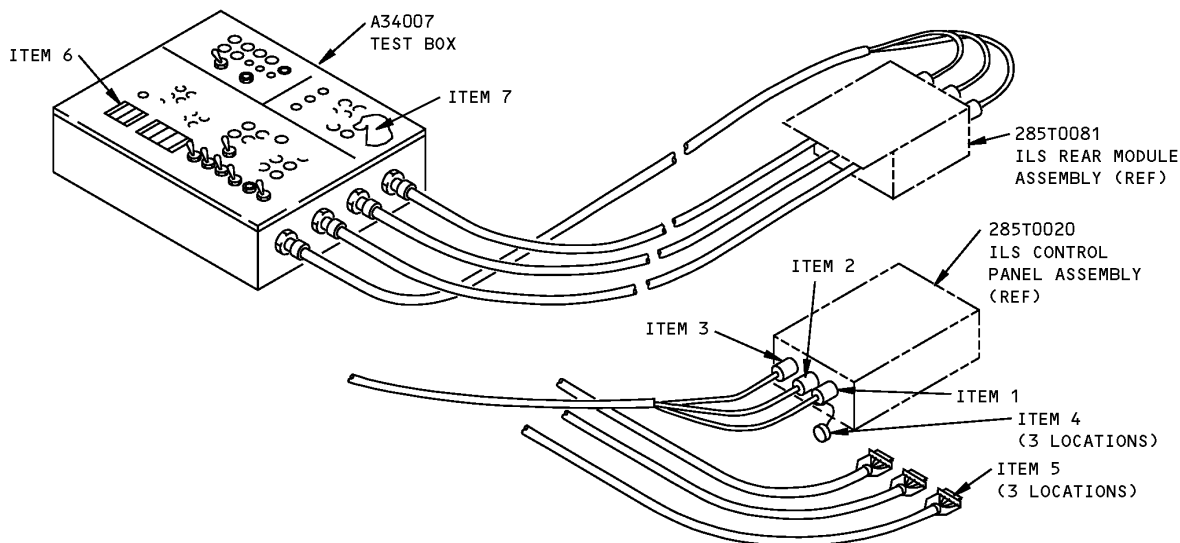
The A34007-33 or -36 test box is used during component maintenance on 757 airplanes from line number 1 thru 21. A34007 is used only on the 757 airplanes that are equipped with ILS control panel assembly 285T0020-8, -9 or -10 and the associated 285T0081-10 or -14 rear module assembly. A34007 is used to functionally test the 285T0020-14 ADF control panel assembly and the associated 285T0230-4 rear module assembly. A34007 is used in conjunction with a Fluke 8050A multimeter (or equivalent); a 0 to 115 VAC, 400Hz, AC power supply; a 28 VDC, 3 Amp power supply; a 5 VDC, 3 Amp power supply; an Interface Technology Model 429 (or equivalent) bus analyzer and a Tektronix 5441 oscilloscope (or equivalent) with two 5A18N and one 5B42 plug-ins. Refer to CMM 34-31-51 for complete usage instructions. A34007-1 consists of switches, circuit board assemblies, resistors, connectors, LED's, lamps, potentiometers and electrical circuitry mounted on a panel and chassis assembly.

**WEIGHT:** 10 lbs (4.5 kg)

**DIMENSIONS:** 5 x 12 x 15 inches (127 x 305 x 381 mm)

**NOTE:** A34007-36 replaces A34007-33 for future procurement.  
A34007-33 supersedes A34007-1.

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



ILS Rear Module And Control Panel Test Box  
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS24266R14B15S6	CONNECTOR	
2	MS24266R14B15S7	CONNECTOR	
3	MS24266R14B15S8	CONNECTOR	
4	MS27293-3	CONNECTOR CAP	
5	MDM37SL39F	CONNECTOR	V71468
6	56PR1K	POTENTIOMETER	V05721
7	R636-2	CONNECTOR	V82893



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34014-14**

**NAME:** TEST BOX - POWER SUPPLY CONTROL PANEL

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A34014 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34014 inclusion in the 757 ITEM is for information and historical purposes only.

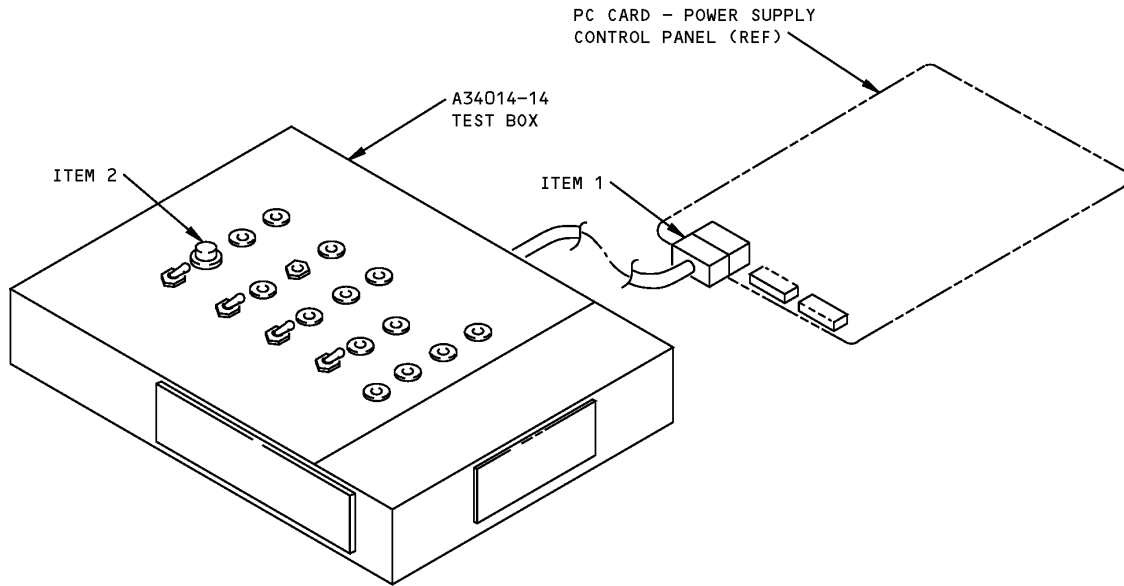
The A34014-14 test box is used during component maintenance on all 757 airplanes. A34014 is used to functionally test the 285T0552 or 285T0562 control panel power supply. A34014 is used in conjunction with a Keithley 173A digital multimeter (or equivalent); a 134 VAC, 400 Hz, 100 milliamp AC power supply; two 5 VDC power supplies; a 100 milliamp, 2% accuracy ammeter; a 150 V, 2% accuracy AC voltmeter; a Tektronix 454 oscilloscope (or equivalent); a 5 V p-p, 5 Hz +/-4%, square wave frequency generator and a Boeing B34001 test fixture. Refer to CMM 34-09-60 for complete usage instructions. A34013-14 consists of switches, resistors, banana jacks, a connector, a precision timer, a potentiometer, a relay and electrical circuitry mounted on a panel and chassis assembly.

**WEIGHT:** 5 lbs (2.3 kg)

**DIMENSIONS:** 4 x 8 x 10 inches (102 x 203 x 254 mm)

**NOTE:** A34014-14 supersedes A34014-1.

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**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Power Supply Control Panel Test Box**  
**Figure 1**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	SMDS20G5-11SL	CONNECTOR	V91637
2	507-5338-1531-610	LAMP	V96312





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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: G34004-11, -17**

**NAME:** ADJUSTMENT EQUIPMENT - WEATHER RADAR ANTENNA MOUNT

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The G34004-11 or -17 (preferred) adjustment equipment is used on all 757 airplanes. G34004 is used to adjust the pitch and roll alignment of the weather radar antenna mount relative to the airplane's reference plane. Refer to AMM 34-43-07 for complete usage instructions. The G34004-11 and -17 consist of:

G34004-11		
QUANTITY	NOMENCLATURE	PART NUMBER
1	REFERENCE EQUIPMENT	G34004-2
1	TRANSFER EQUIPMENT	G34004-12
1	PROTRACTOR	02550-01
1	STORAGE BOX	

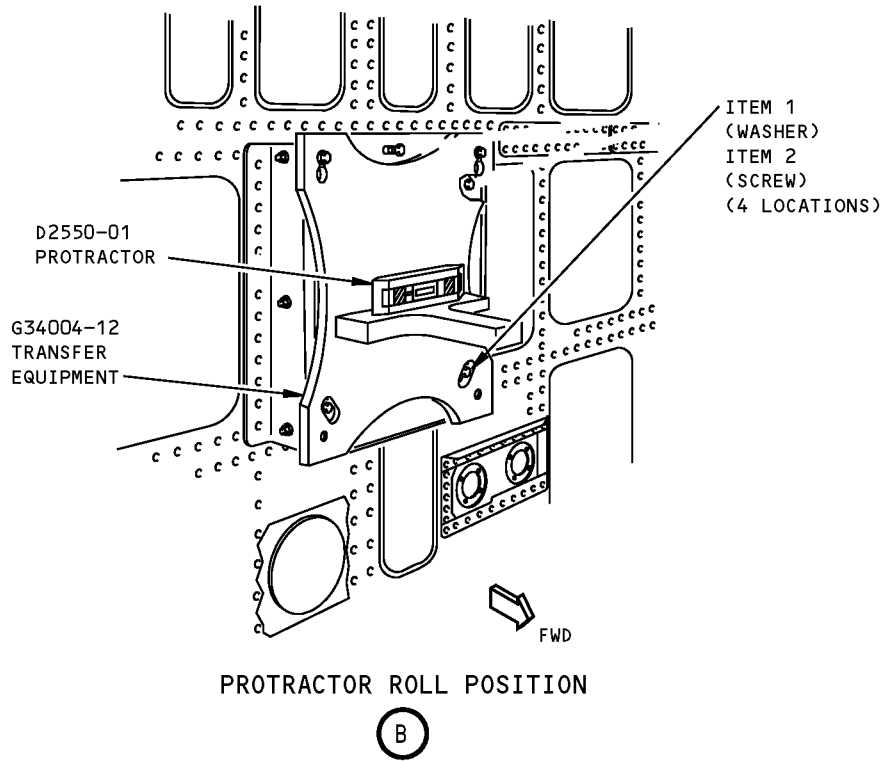
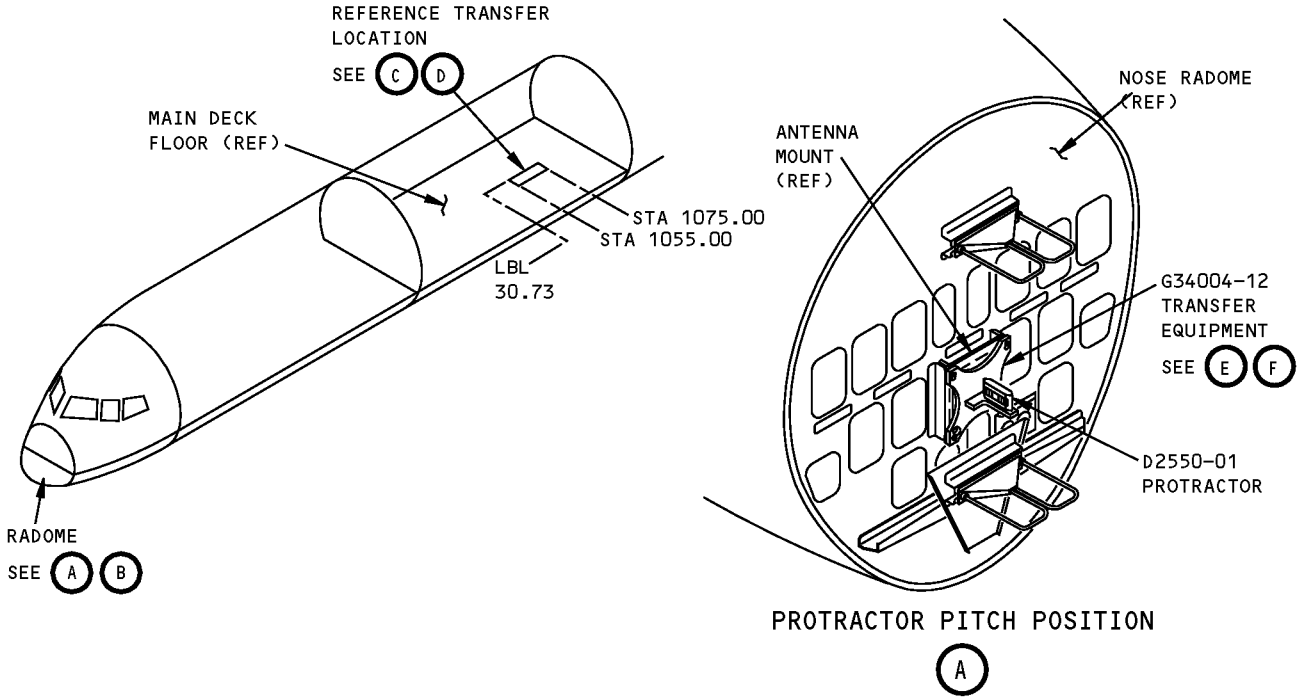
G34004-17		
QUANTITY	NOMENCLATURE	PART NUMBER
1	REFERENCE EQUIPMENT	G34004-18
1	TRANSFER EQUIPMENT	G34004-12
1	PROTRACTOR	02550-01
1	STORAGE BOX	

**WEIGHT:** 36 lbs (16 kg)

**DIMENSIONS:** 7 x 14 x 25 inches (178 x 356 x 635 mm)

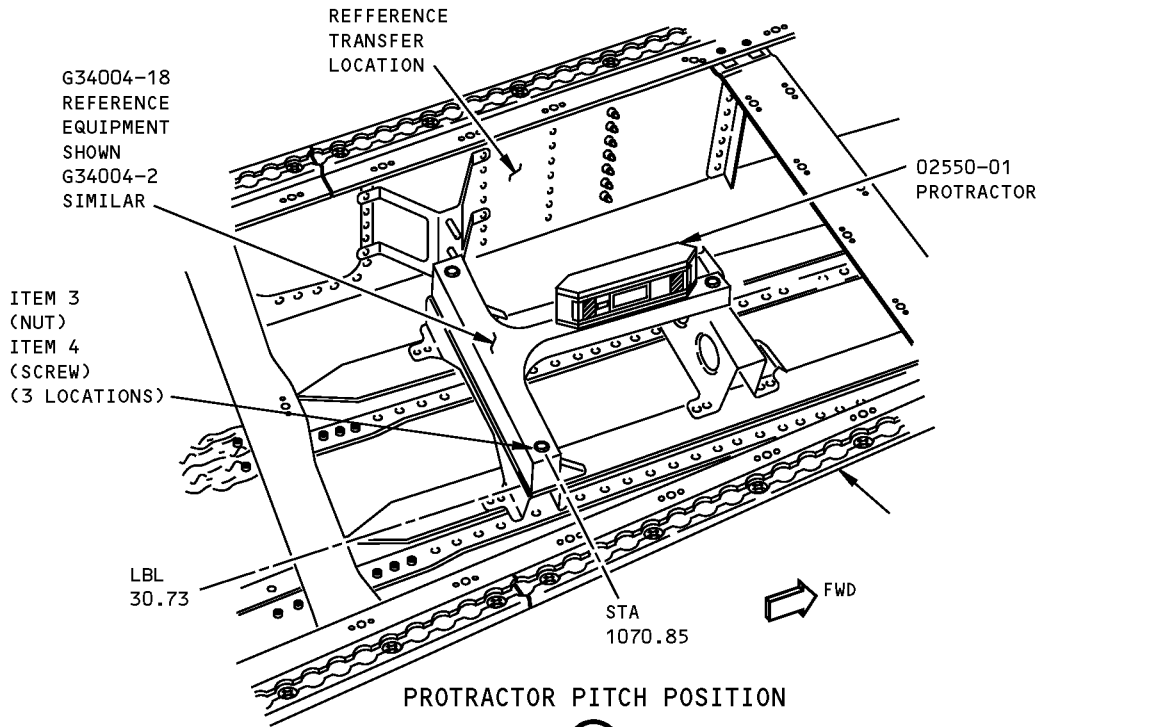
**NOTE:** G34004-17 replaces G34004-11 for future procurement.  
G34004-11 supersedes G34004-1.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

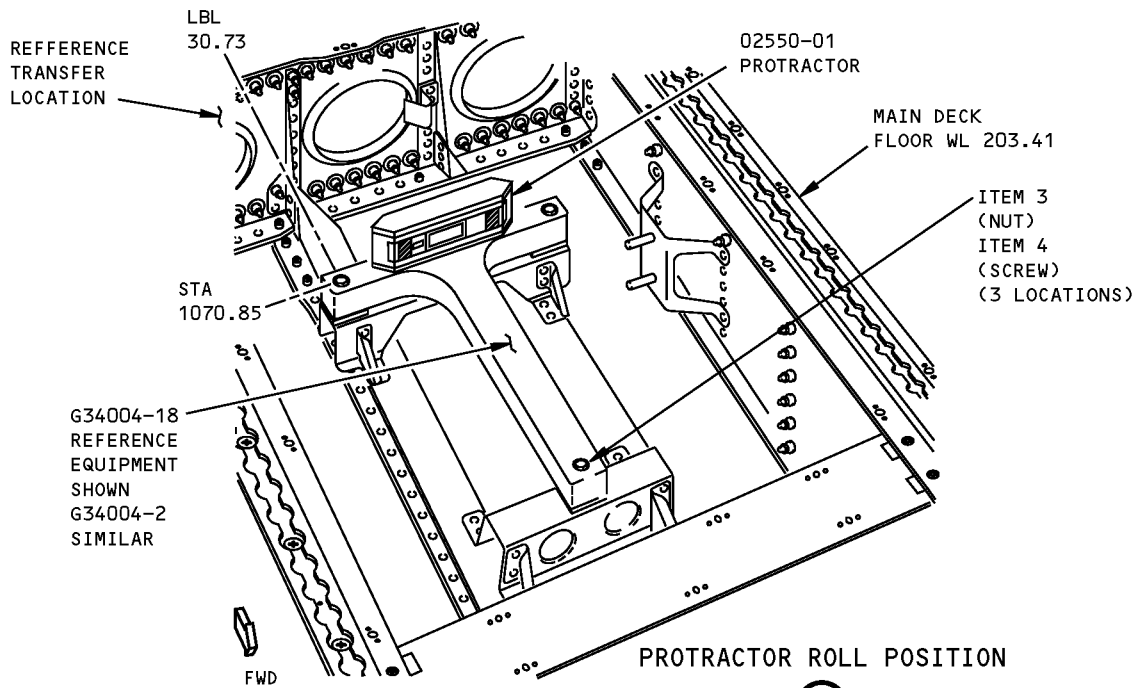


**Weather Radar Antenna Mount Adjustment Equipment  
Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



(C)



(D)

**Weather Radar Antenna Mount Adjustment Equipment  
Figure 1 (Sheet 2 of 2)**



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ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	AN960-616	WASHER	
2	NAS6606-10	SCREW	
3	MS51968-3	NUT	
4	NAS6604-20	SCREW	



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34009-29**

**NAME:** TEST BOX - REAR MODULE AND CONTROL PANEL, VERY HIGH FREQUENCY OMNIRANGE/DISTANCE MEASURING EQUIPMENT (VOR/DME)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A34009 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34009 inclusion in the 757 ITEM is for information and historical purposes only.

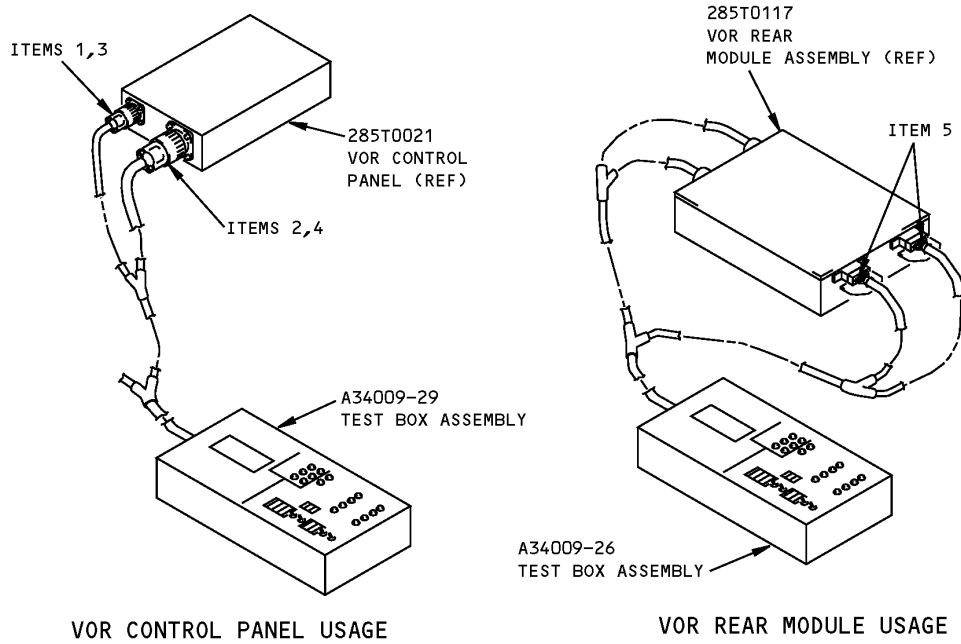
The A34009-29 test box is used during component maintenance on all 757 airplanes A34009 is used to functionally test the 285T0021-16, -17, -19 or -20 VOR control panel and the 285T0117-16, -17, -20 or -21 rear module assembly. A34009 is used in conjunction with a Fluke 8050A multimeter (or equivalent); a 0 to 130 VAC, 400Hz, AC power supply; a 28VDC, 3 Amp power supply; a 5VDC, 2 Amp power supply; an Interface Technology Model 429 (or equivalent) bus analyzer and a Tektronix 466 oscilloscope (or equivalent). The 285T0117-20 rear module assembly also requires a Boeing A34015 test box. Refer to CMM 34-51-51 for complete usage instructions. A34009-29 consists of banana jacks, switches, resistors, connectors, a transformer, a lamp and electrical circuitry mounted on a panel and chassis assembly.

**WEIGHT:** 10 lbs (4.5 kg)

**DIMENSIONS:** 5 x 12 x 25 inches (127 x 305 x 635 mm)

**NOTE:** A34009-29 supersedes A34009-26.

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



VOR/DME Rear Module And Control Panel Test Box  
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS24266R12B12SN	CONNECTOR	
2	MS24266R18B31SN	CONNECTOR	
3	MS27293-2	CONNECTOR CAP	
4	MS27293-5	CONNECTOR CAP	
5	MDM37SL39F	CONNECTOR	V71468



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34010-21**

**NAME:** TEST BOX - FRONT MODULE, VERY HIGH FREQUENCY OMNIRANGE/  
DISTANCE MEASURING EQUIPMENT (VOR/DME)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A34010 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34010 inclusion in the 757 ITEM is for information and historical purposes only.

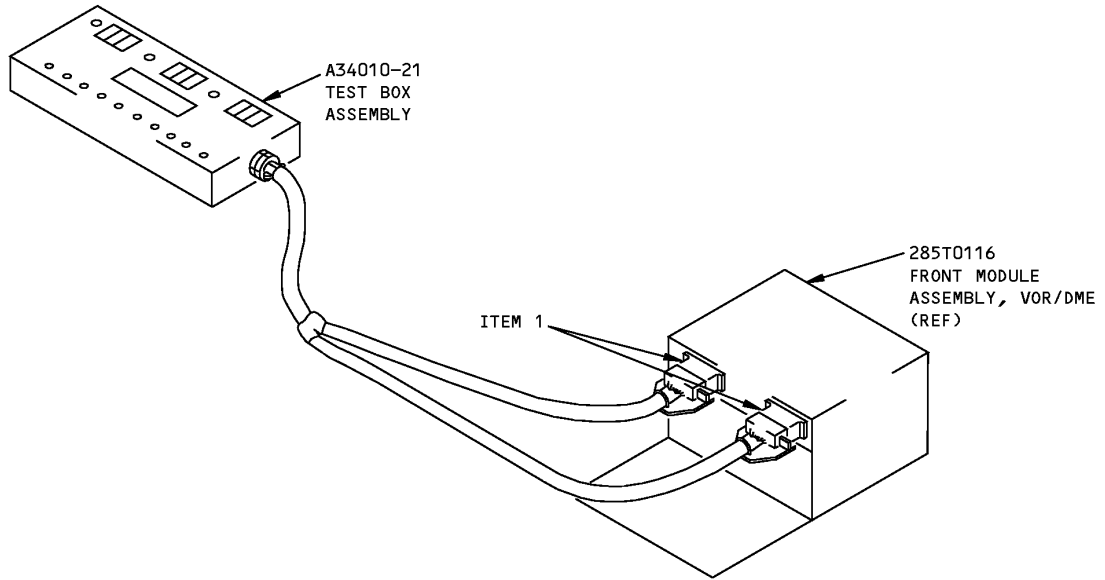
The A34010-21 test box is used during component maintenance typically, on 757 airplanes from line number 1 thru 36. A34010 is used only on the 757 airplanes that are equipped with the 285T0021-16, -17, -19 and -20 VOR/DME control panel assembly and tests the associated 285T0116-19, -20, -23, -25, -27 or -28 front module assembly. A34010 is used to functionally test the 285T0116-19, -20, -23, -25, -27 or -28 front module assembly. A34010 is used in conjunction with a 28 VDC, 3 Amp power supply, a 5 VDC, 3 Amp power supply and a Simpson 260 multimeter. Refer to CMM 34-51-51 for complete usage instructions. A34010-21 consists of switches, resistors, connectors, banana jacks, LED's, digital logic components and electrical circuitry mounted on a panel and chassis assembly.

**WEIGHT:** 5 lbs (2.3 kg)

**DIMENSIONS:** 6 x 10 x 15 inches (152 x 254 x 381 mm)

**NOTE:** A34010-21 supersedes A34010-1.

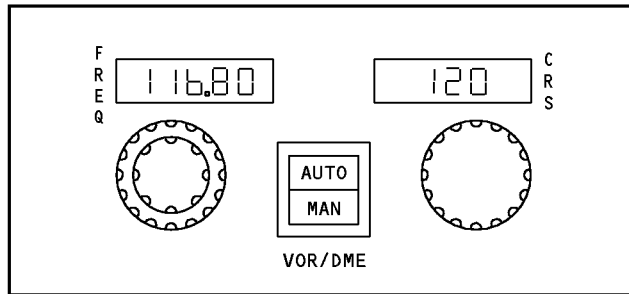
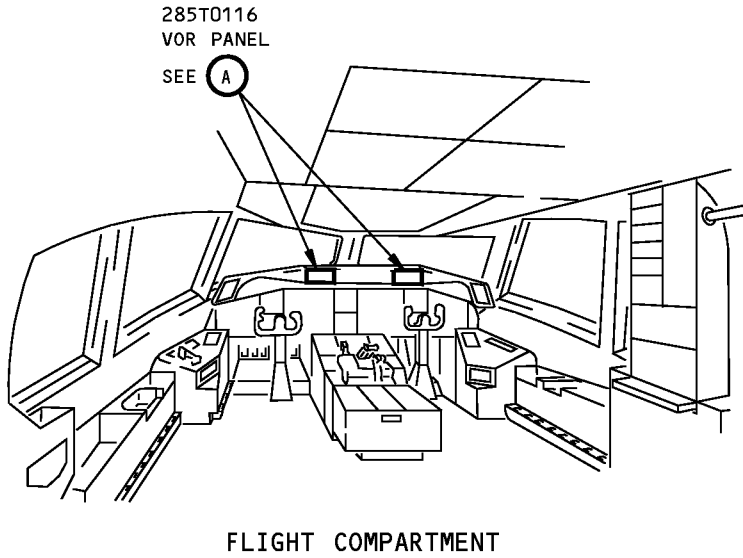
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**VOR/DME Front Module Test Box  
Figure 1 (Sheet 1 of 2)**



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ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



285T0116 VOR PANEL



**VOR/DME Front Module Test Box  
Figure 1 (Sheet 2 of 2)**



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ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MDM-37PL39F	CONNECTOR	V71468



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34003-1, -43, -46**

**NAME:** TEST BOX - REAR MODULE AND CONTROL PANEL AIR TRAFFIC CONTROL (ATC)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A34003 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34003 inclusion in the 757 ITEM is for information and historical purposes only.

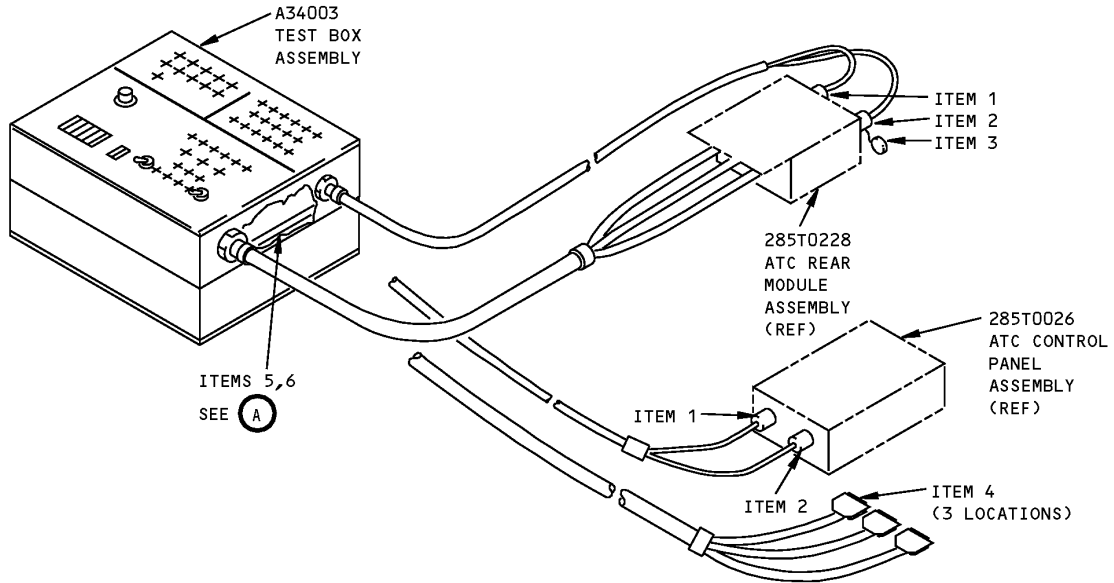
The A34003-1, -43 or -46 test box is used during component maintenance on 757 airplanes from line number 1 thru 34. A34003 is used only on the 757 airplanes that are equipped with air traffic control panel assembly 285T0026-10, -11, -13 or -14. A34003 is used to functionally test the ATC panel assembly 285T0026 and the ATC rear module assembly 285T0228. A34003 is used in conjunction with a Fluke 8050A multimeter (or equivalent); a 100 to 130 VAC, 400Hz, AC power supply; a 28VDC, 3 Amp power supply; a 5VDC, 2 Amp power supply; an Interface Technology Model 429 (or equivalent) bus analyzer; a Tektronix 466 oscilloscope (or equivalent); and a Boeing A33003-359 breakout box. Refer to CMM 34-53-51 for complete usage instructions. A34003-1, -43 or -46 consists of banana jacks, resistors, connectors, switches, potentiometers, lamps, a comparator and electrical circuitry mounted on a panel and chassis assembly.

**WEIGHT:** 10 lbs (4.5 kg)

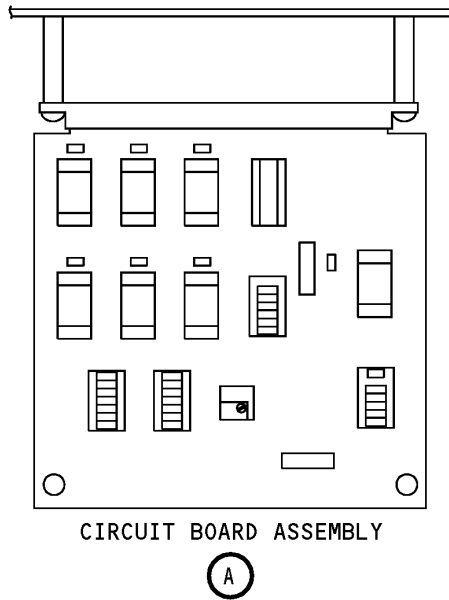
**DIMENSIONS:** 8 x 12 x 15 inches (203 x 305 x 381 mm)

**NOTE:** A34003-46 replaces A34003-43 for future procurement.  
A34003-43 replaces A34003-1 for future procurement.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Rear Module And Control Panel ATC Test Box  
Figure 1 (Sheet 1 of 2)**



**Rear Module And Control Panel ATC Test Box  
Figure 1 (Sheet 2 of 2)**



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ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS24266R16B24S7	CONNECTOR	
1	M83723/75R16247	CONNECTOR (OPTION)	
2	MS24266R16B24S8	CONNECTOR	
2	M83723/75R16248	CONNECTOR (OPTION)	
3	MS27293-4	CONNECTOR CAP	
3	M83723/59-216RC	CONNECTOR CAP (OPTION)	
4	MDM37SL39F	CONNECTOR	V71468
5	R636-2	RECEPTACLE	V82893
6	68WR10K	POTENTIOMETER	V05721



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34005-1**

**NAME:** TEST BOX - AUTOMATIC DIRECTION FINDER (ADF) FRONT MODULE ASSEMBLY

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

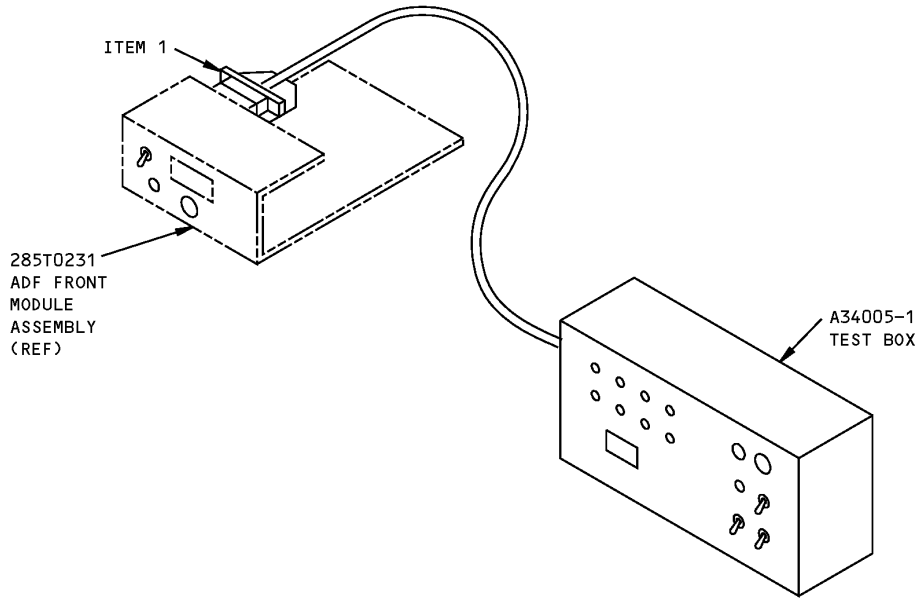
**USAGE & DESCRIPTION:** The A34005 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34005 inclusion in the 757 ITEM is for information and historical purposes only.

The A34005-1 test box is used during component maintenance on 757 airplanes from line number 1 thru 28. A34005 is used only on the 757 airplanes that are equipped with ADF control panel assembly 285T0027-14. A34005 is used to functionally test the ADF control panel assembly's 285T0231-8 or -10 front module assembly. A34005 is used in conjunction with a Fluke 8050A multimeter (or equivalent) and a 5 +/- 0.05 VDC power supply. Refer to CMM 34-57-51 for complete usage instructions. A34005-1 consists of banana jacks, resistors, connectors, a digital display, LED's and electrical circuitry mounted on a panel and chassis assembly.

**WEIGHT:** 1 lbs (0.45 kg)

**DIMENSIONS:** 3 x 5 x 10 inches (76 x 127 x 254 mm)

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**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**ADF Front Module Assembly Test Box**  
**Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MDM-37PBS	CONNECTOR	V71468



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34006-1, -21**

**NAME:** TEST BOX - AUTOMATIC DIRECTION FINDER (ADF) CONTROL PANEL AND REAR MODULE

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A34006 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34006 inclusion in the 757 ITEM is for information and historical purposes only.

The A34006-1 or -21 test box is used during component maintenance on 757 airplanes from line number 1 thru 28. A34006 is used only on the 757 airplanes that are equipped with ADF control panel assembly 285T0027-14. A34006 is used to functionally test the 285T0027-14 ADF control panel assembly and the associated 285T0230-4 rear module assembly. A34006 is used in conjunction with a Fluke 8050A multimeter (or equivalent); a 0 to 150 VAC, 0.5 Amp, 400Hz, AC power supply; a 5 VDC, 0.5 Amp power supply; an Interface Technology Model 429 (or equivalent) bus analyzer and a Tektronix 475 oscilloscope (or equivalent). Refer to CMM 34-57-51 for complete usage instructions. A34006-1 consists of switches, banana jacks, resistors, a connector, LED's and electrical circuitry mounted on a panel and chassis assembly.

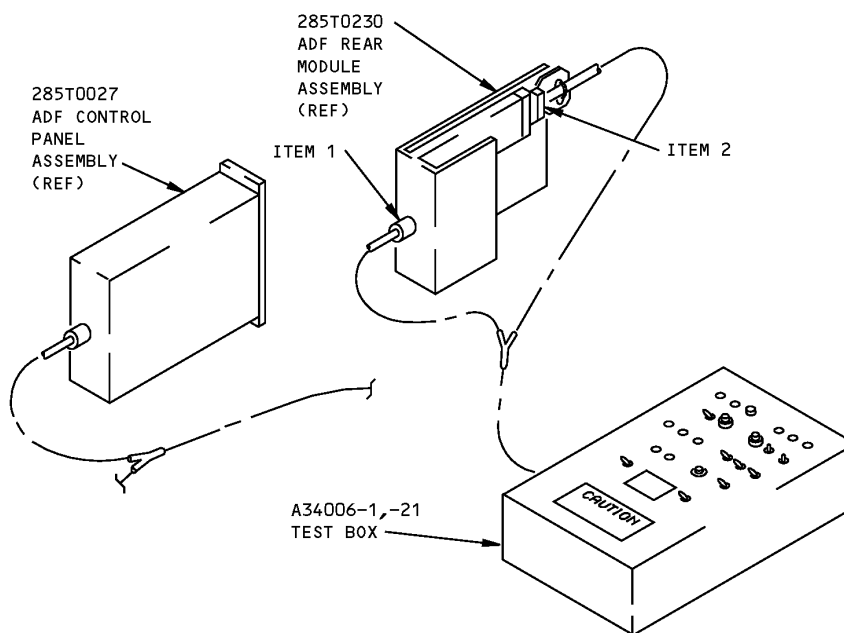
**WEIGHT:** 8 lbs (3.6 kg)

**DIMENSIONS:** 4 x 10 x 15 inches (102 x 254 x 381 mm)

**NOTE:** A34006-21 replaces A34006-1 for future procurement.



ILLUSTRATED TOOL AND EQUIPMENT MANUAL



ADF Control Panel And Rear Module Test Box  
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS24266R16B24S6	CONNECTOR	
2	MDM-37SL39	CONNECTOR	V71468



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34004-27, -30**

**NAME:** TEST BOX - FRONT MODULE, AIR TRAFFIC CONTROL (ATC)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A34004 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A34004 inclusion in the 757 ITEM is for information and historical purposes only.

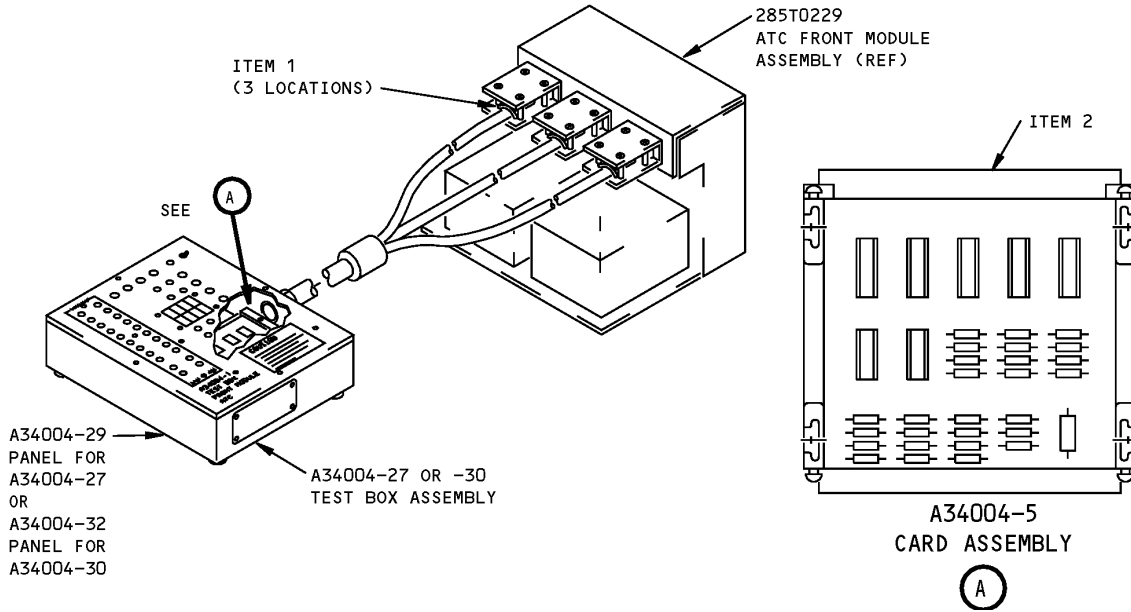
The A34004-27 or -30 test box is used during component maintenance on 757 airplanes from line number 1 thru 34. A34004 is used only on the 757 airplanes that are equipped with air traffic control panel assembly 285T0026-10, -11, -13 or -14. A34004 is used to functionally test the Air Traffic Control (ATC) panel assembly 285T0026. A34004 is used in conjunction with a Fluke 8050A multimeter (or equivalent); a 100 to 130 VAC, 400Hz, AC power supply; a 28VDC, 3 Amp power supply; a 5VDC, 2 Amp power supply; an Interface Technology Model 429 (or equivalent) bus analyzer; a Tektronix 466 oscilloscope (or equivalent); and a Boeing A33003-359 breakout box. Refer to CMM 34-53-51 for complete usage instructions. A34004-27 or -30 consists of banana jacks, resistors, connectors, switches, digital displays, LED's and electrical circuitry mounted on a panel and chassis assembly.

**WEIGHT:** 10 lbs (4.5 kg)

**DIMENSIONS:** 8 x 12 x 15 inches (203 x 305 x 381 mm)

**NOTE:** A34004-30 replaces A34004-27 for future procurement.  
A34004-27 supersedes A34004-24.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**ATC Front Module Test Box  
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MDM-37PL39F	CONNECTOR	V71468
2	R636-2	CONNECTOR	V82893



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A34015-26, -27, -35**

**NAME:** TEST BOX - POWER INTERRUPT/PULSE

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A34015-26, -27 or -35 (preferred) test box is used during component maintenance on 757 airplanes equipped with a 285T0553 Instrument Landing System (ILS) control panel, 285T0554 Very high frequency Omni Range (VOR) control panel, 285T0021 VOR control panel, 285U0037 radio communication panel module assembly or a 285T0022 audio selector panel.

The A34015-26 test box is used in conjunction with A33003-2 breakout box and A33003-19, -20 and -21 cable during test of the 285T0553 ILS control panel, per CMM 34-31-61. The A34015-26 test box is also used with A33003-2 breakout box and A33003-9 and A33003-36 test cables during test of the 285T0554 VOR control panel, per CMM 34-51-61. The A34015-26 test box is also used with A34009-29 test box during test of the 285T0021 VOR control panel, per CMM 34-51-51. The A34015-26 test box is used for alternating current (primarily 115 VAC, 400 HZ) power interrupt applications only. The A34015-26 also includes test applications for the 767 airplane.

The A34015-27 test box does the same applications as the A34015-26 test box. In addition, the A34015-27 test box is also used for 28 VDC general power interrupt applications up to 0.5 Amp interrupt capability. The A34015-27 test box is also used in conjunction with the A33003-2 breakout box and A33003-47 cable during tests of the 285U0037 radio communications panel, per CMM 23-11-20. The A34015-27 also includes test applications for the 737, 747-400/-400F and 767 airplanes.

The A34015-35 test box includes all the same applications as the A34015-26 and A34015-27 test boxes. The A34015-35 is used for general power interrupt, pulse and resistance applications involving alternating and direct current (typically) 115 VAC and 28 VDC up to 0.5 Amp between 1 and 50 milliseconds and up to 5 Amps at or above 100 milliseconds. The A34015-35 test box is also used in conjunction with the A33003-2 breakout box and A33003-35, -47 and -50 cables during tests of the 285T0022 audio selector panel, per CMM 23-51-05. The A34015-35 also includes test applications for the 737, 747-400/-400F/-400ER and 767 airplanes.

**WEIGHT:** A34015-26 and -27 - 3 lbs (1.4 kg)  
A34015-35 - 5 lbs (2.3 kg)

**DIMENSIONS:** A34015-26 and -27 - 3 x 7 x 9 inches (76 x 178 x 229 mm)  
A34015-35 - 5 x 10 x 12 inches (127 x 254 x 305 mm)



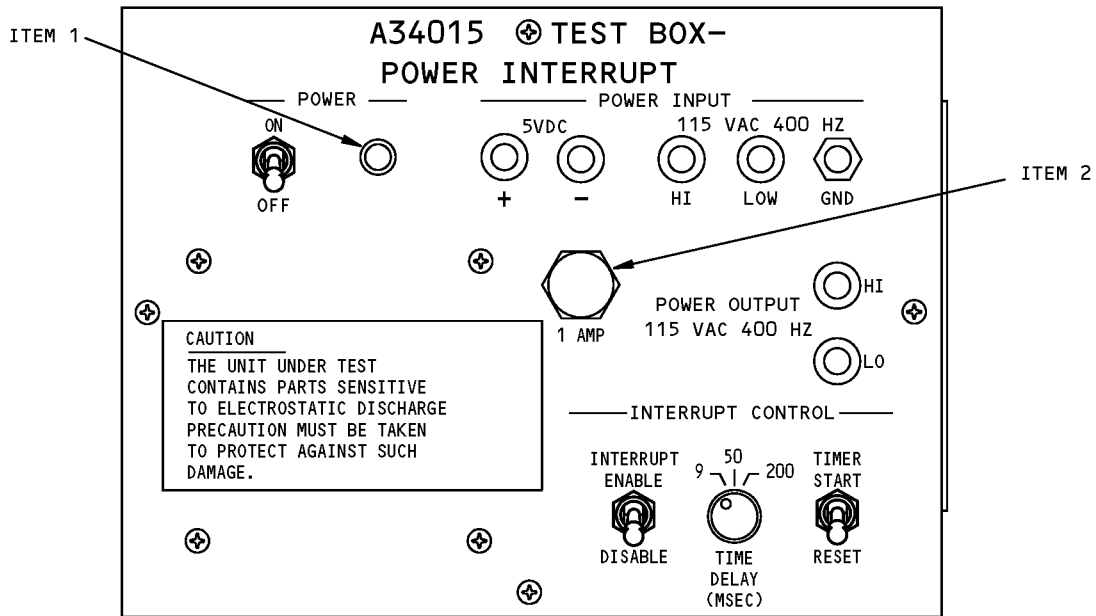
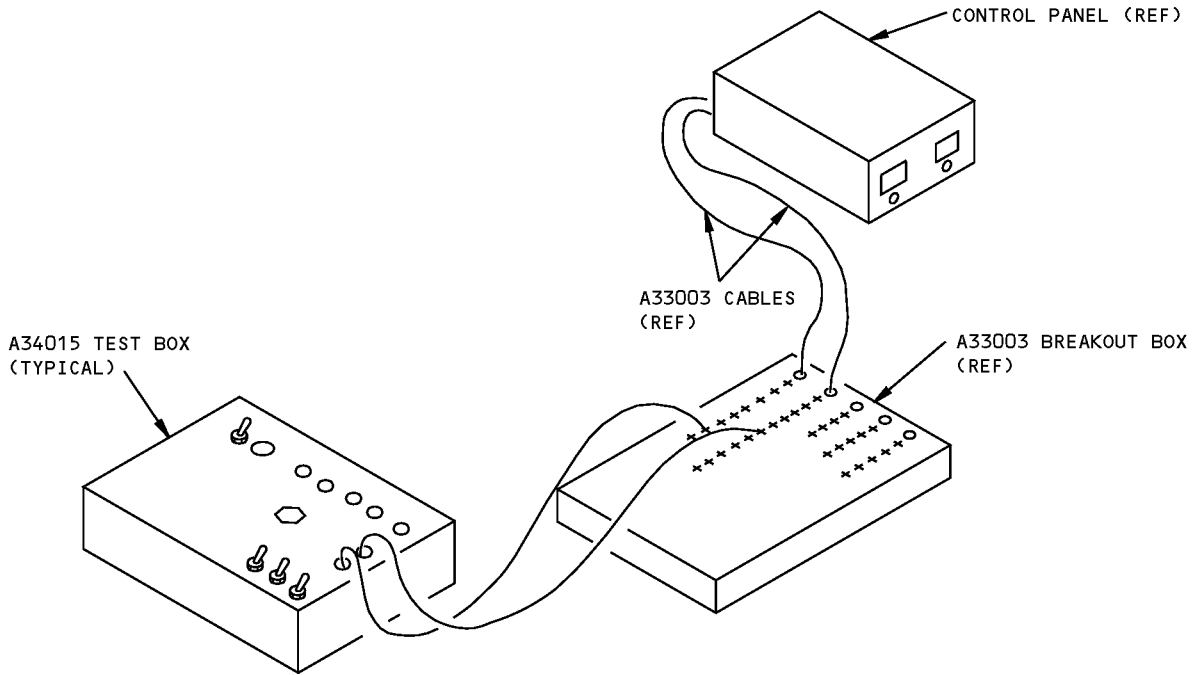
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**NOTE:**

A34015-35 replaces A34015-26 and -27 for future procurement.  
A34015-27 supersedes A34015-23.  
A34015-26 supersedes A34015-20.

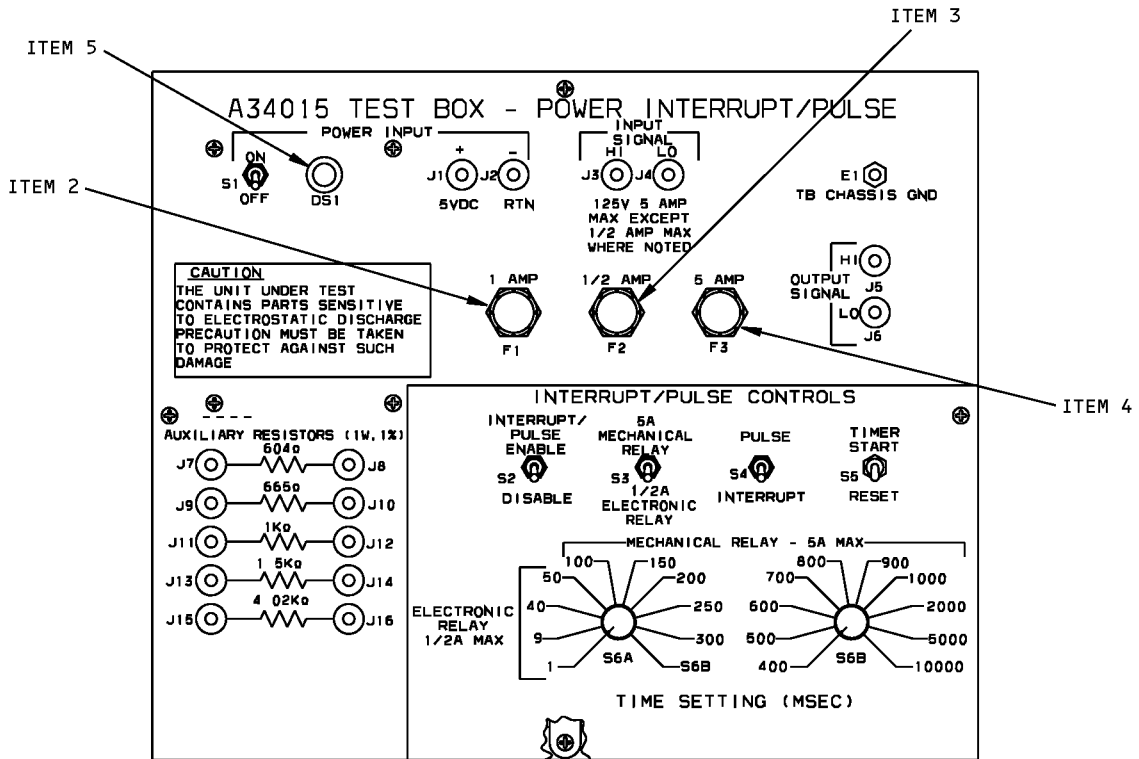
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**A34015-26,-27 TEST BOX  
(TYPICAL)**

**Power Interrupt/Pulse Test Box  
Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



A34015-35 TEST BOX

**Power Interrupt/Pulse Test Box  
Figure 1 (Sheet 2 of 2)**



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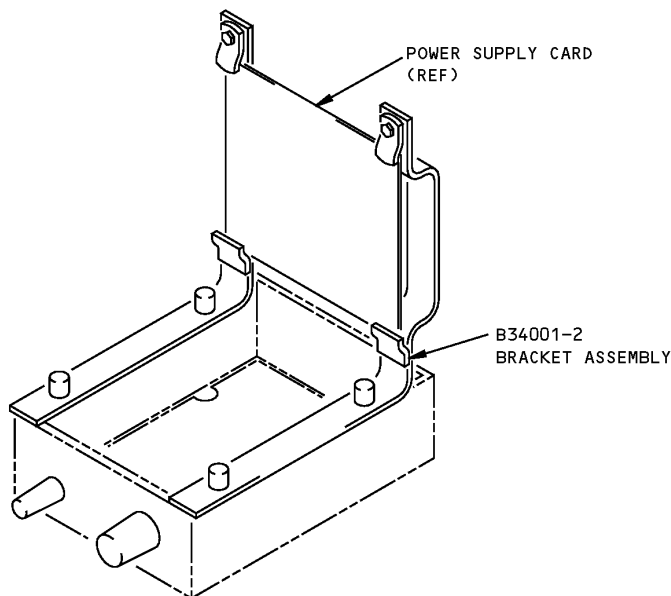
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	507-4538-0931-610	LAMP	V96312
2	312001	FUSE	V75915
3	312.500	FUSE	V75915
4	312005	FUSE	V75915
5	507-4757-3331-500	LED LAMP	V96312



## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: B34001-1****NAME:** TEST FIXTURE - POWER SUPPLY CARDS/CONTROL PANEL ASSEMBLY**AIRPLANE MAINTENANCE:** NO**COMPONENT MAINTENANCE:** YES**USAGE & DESCRIPTION:** The B34001 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The B34001 inclusion in the 757 ITEM is for information and historical purposes only.

The B34001-1 test fixture is used during component maintenance on all 757 airplanes. B34001 is used to support the instrument landing system (ILS), very high frequency omni-range (VOR), air traffic control (ATC), automatic direction finder (ADF) and dual ADF power supply cards while troubleshooting per CMM procedures. Refer to CMM 34-09-60, CMM 34-34-61, CMM 34-51-61, CMM 34-53-61, CMM 34-57-61 and CMM 34-57-62, and the current B34001 drawing for complete usage instructions. B34001-1 consists of two B34001-2 bracket assemblies contained in a storage box.

**WEIGHT:** 2 lb (0.9 kg)**DIMENSIONS:** 1 x 6 x 7 inches (25 x 152 x 178 mm)

**Power Supply Cards/Control Panel Assembly Test Fixture**  
**Figure 1**