CHAPTER

ELECTRICAL POWER



CHAPTER 24 ELECTRICAL POWER

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PART NUMBER: A71015-107

NAME: LIFT FIXTURE - ENGINE ACCESSORY

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

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I USAGE & DESCRIPTION: The A71015-107 lift fixture is used on all 767 airplanes. A71015 contains a

manual hydraulic pump to raise and lower a hoist arm. The hoist arm

contains a swiveling head that is designed for use by a number of adapters.

A71015-107 is used to remove and install airplane components such as the heat exchanger and plenum assembly, the air cycle machine, and the air conditioning pack reheater, in conjuction with the A21001 hoist adapter; the

integrated drive generator (IDG) in conjunction with the A71013 or G24013 hoist adapter; ram air turbine (RAT) in conjunction with the B29001 safety screen adapter and the JT9D-7R4D/E engine exhaust sleeve, in conjunction

with the A78003 engine exhaust sleeve cradle. Rework A71015-93 to A71015-107 by replacing 2 BB-2HCU14A10.44 with 2 BB-2HLU14A10.44. Refer to AMM

21-51-02, AMM 21-51-03, AMM 21-51-07, AMM 24-11-01, AMM 29-21-00 and

AMM 78-11-01 for complete usage instructions.

WEIGHT: 400 lbs (181 kg)

DIMENSIONS: 30 x 50 x 90 inches (762 x 1270 x 2286 mm)

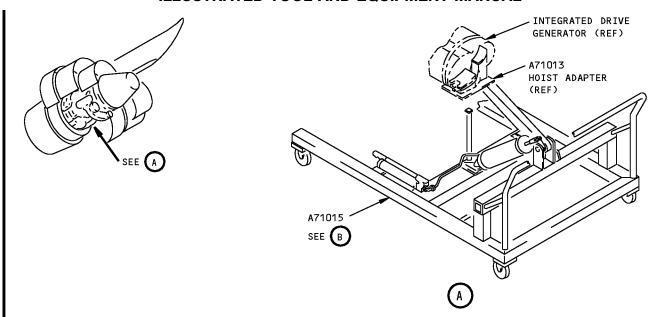
NOTE: A71015-107 supercedes A71015-93.

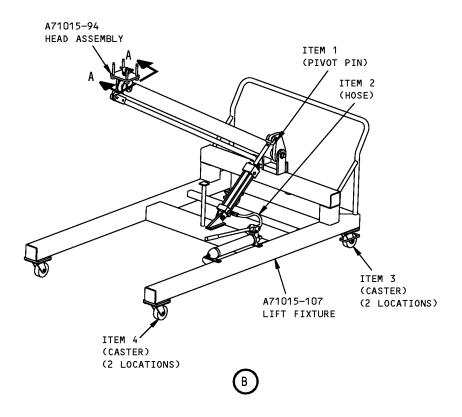
A71015-93 supersedes A71015-87.

A71015 replaces G24011 for future procurement.



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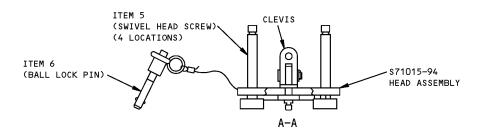
1676756 S0000306286_V1

Engine Accessory Lift Fixture Figure 1

24-00-01

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Engine Accessory Lift Fixture Head Assembly Figure 2

REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	68369	PIVOT PIN	V84561	
2	R201**0606080808-24	HOSE ASSEMBLY	V87373	
3	12PD04123SLWB01	CASTER	V96266	
4	12PD04123SL	CASTER	V96266	
5	CL-37-SHS	SWIVEL HEAD SCREW	V99862	
6	NAS1356C3C20D	BALL LOCK PIN		
6	NAS1356C2C20D	BALL LOCK PIN (OPTION)		
6	CL-6-BLPB-2.00-S	BALL LOCK PIN (OPTION)	V99862	

PART NUMBER: A24001-1, -5

NAME: HOIST EQUIPMENT - LRU'S MAIN EE BAY

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A24001-1 or -5 hoist equipment is used on all 767 airplanes. This

equipment is used for the removal and installation of the main battery or individual electrical equipment boxes in the forward electrical equipment compartment. The -1 spreader bar is used for handling the battery and the -5 pickup equipment is used for handling electrical equipment boxes. A customer supplied fishpole hoist is used to raise or lower the battery/ electrical component through the E/E access hatch. Refer to AMM 24-31-01/04 and current A24001 drawing for further usage instructions. The -1 spreader bar consists of a -2 base, a -3 web and a cable assembly. The -5 pickup equipment consists of a -6 fitting assembly and a -8 storage box

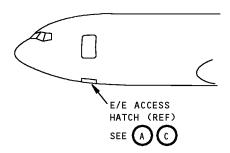
assembly.

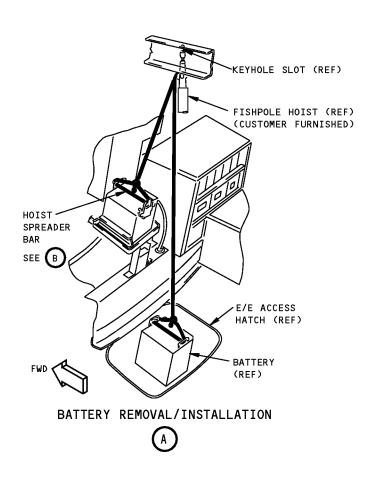
WEIGHT: A24001-5 - 1.5 lbs (0.68 kg)

DIMENSIONS: A24001-1 - 2 x 3 x 12 inches (51 x 76 x 305 mm)

A24001-5 - 2 x 3 x 4 inches (51 x 76 x 102 mm)



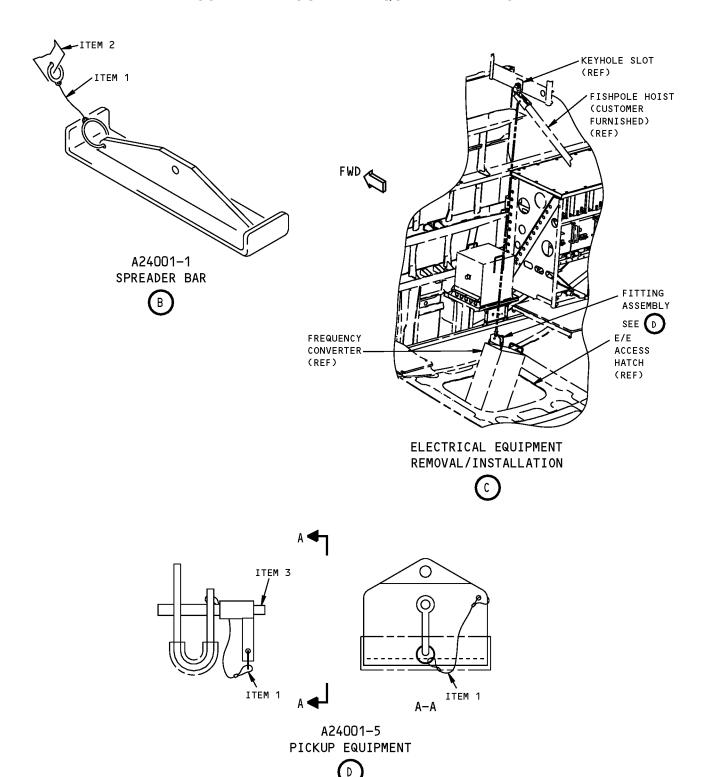




Main EE Bay LRU Hoist Equipment Figure 1 (Sheet 1 of 2)

24-00-02





Main EE Bay LRU Hoist Equipment Figure 1 (Sheet 2 of 2)

24-00-02



REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	CL-21-KA-10.0LR	CABLE ASSEMBLY	V99862	
2	A24001-4	PLACARD		
3	CL-5-BLP-L-1.5	BALL LOCK PIN	V99862	



PART NUMBER: A49006-26

NAME: HOIST EQUIPMENT - APU BATTERY

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

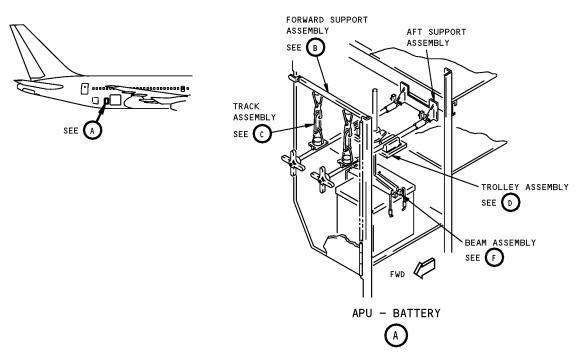
USAGE & DESCRIPTION: This tool is used to remove/install the Auxiliary Power Unit (APU) battery

from the E6 Aft Equipment Rack. The forward and aft support assemblies, fasten to the E6 rack structure while the beam assembly hooks into the battery handles. The ballscrew lift device (actuator) provides vertical movement and the track and trolley assemblies provide for horizontal

movement.

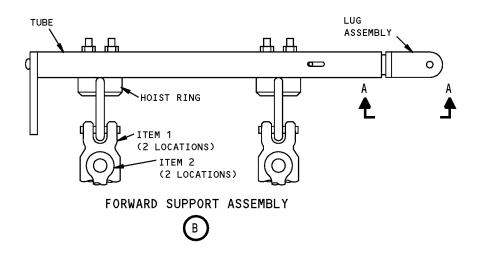
DIMENSIONS: 18 x 20 x 40 inches (457 x 508 x 1016 mm)

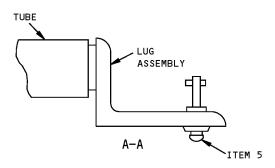
NOTE: A49006-26 replaced by A24006-1.

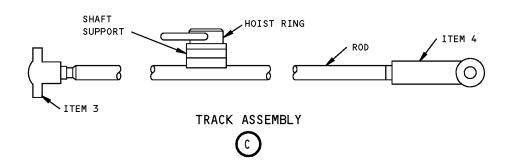


Auxiliary Power Unit Battery Hoist Equipment Figure 1 (Sheet 1 of 3)





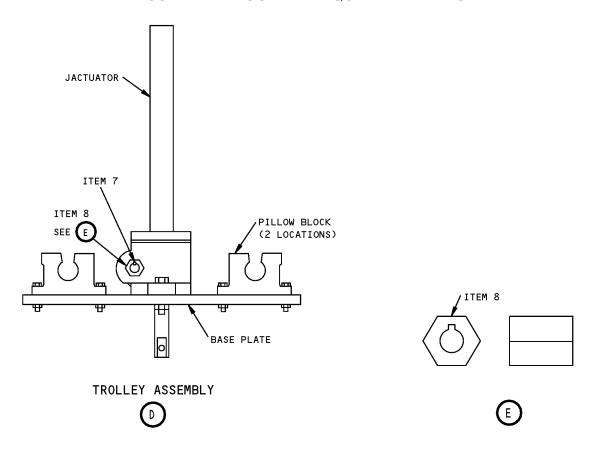


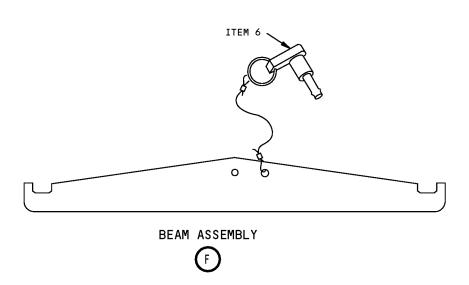


Auxiliary Power Unit Battery Hoist Equipment Figure 1 (Sheet 2 of 3)

24-00-03







Auxiliary Power Unit Battery Hoist Equipment Figure 1 (Sheet 3 of 3)

24-00-03



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	S247-1/4	DOUBLE CLEVIS LINK	
2	S210-1/2	SHACKLE	V75535
3	CL-100-HK-10	HAND KNOB	V99862
4	45309	TAPPED YOKE	
5	26S8-10	STUD	V94882
6	NAS1333C621F	BALL LOCKPIN	V82831
7	-10	GIB HEAD KEY	
8	-9	HEX	

PART NUMBER: A24006-1

NAME: HOIST EQUIPMENT - APU BATTERY

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to remove and install the Auxiliary Power Unit (APU) battery

from the E6 Aft Equipment Rack. Refer to AMM 24-31-04 for further usage instructions. This tool is used on 767-200,-300 and -400 airplanes. The forward and aft support assemblies, fasten to the E6 rack structure while the beam

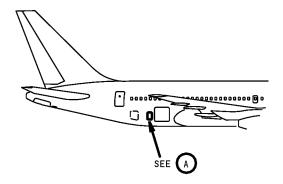
assembly hooks into the battery handles.

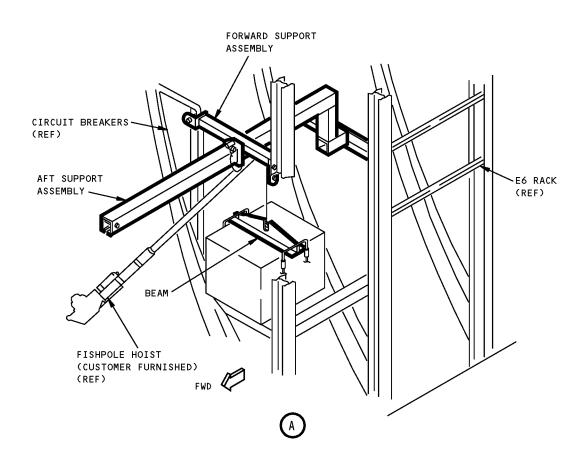
DIMENSIONS: 6 x 10 x 39 inches (152 x 254 x 991 mm)

NOTE: A24006-1 replaces A49006-26.



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APU Battery Hoist Equipment Figure 1

24-00-04

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PART NUMBER: G24006-1

NAME: SUPPORT HOOK - ENGINE POWER FEED CABLE, PW4000 ENGINE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

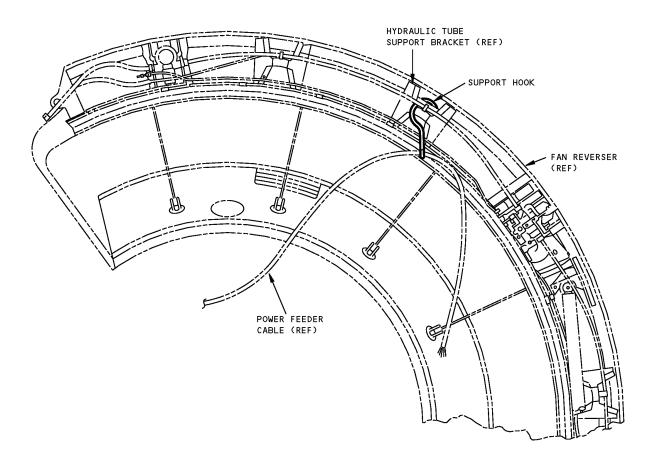
USAGE & DESCRIPTION: This tool is used to temporarily stow the electrical power feed cable while the

engine is being changed.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 13 x 5 x 3 inches (330 x 127 x 76 mm)





Engine Power Feed Cable Support Hook, PW4000 Engine Figure 1

PART NUMBER: G24011-1

NAME: HOIST SYSTEM - RB211, CF6-50 AND JT9D ENGINE ACCESSORY

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The hoist system is used to support engine accessories in conjunction with

adapters. With the RB211 and CF6-50 engines use adapter 2ME65B89603 or A71013 (preferred). With the JT9D-3 and -7 use 69ME65B00713 adapter. With the JT9D-7Q use 69ME65B00713 plus PWA28941 (fuel pump/control). Refer to AMM 24-00-02, 24-21-01 and 72-61-02 for further usage instructions. The hoist system consists of a cart assembly, a beam assembly, a support assembly, a link assembly, a hydraulic cylinder, a pump, a hose assembly and related

hardware.

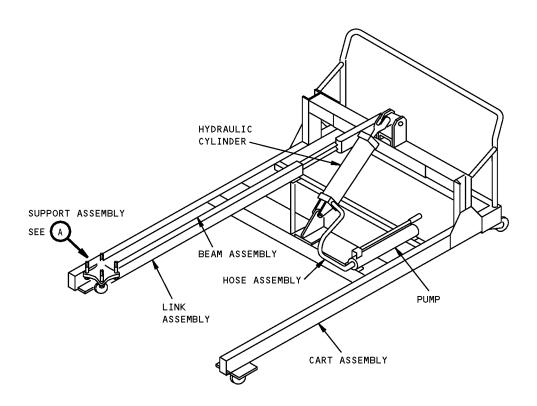
WEIGHT: 350 lbs (159 kg)

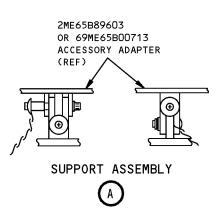
DIMENSIONS: 36 x 52 x 88 inches (914 x 1321 x 2235 mm)

NOTE: G24011 supersedes PME65B89603.

A71015 replaces G24011 for future procurement.







RB211, CF6-50 and JT9D Engine Accessory Hoist System Figure 1

PART NUMBER: 900-24999

NAME: INSPECTION PLATE - QAD

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool simulates the Integrated Drive Generator (IDG) input flange and is

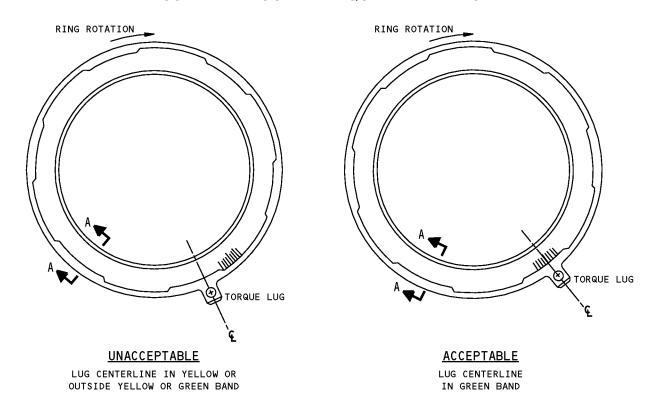
used to check the Quick Attach Detach (QAD) ADAPTER TORQUE INPUT

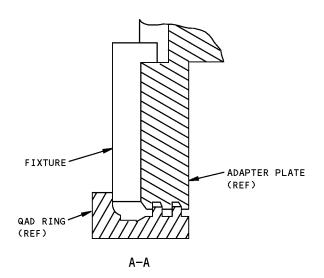
(REF AMM 24-11-03).

NOTE: This tool is a supplier proprietary item and can only be obtained from Sundstrand

Aviation Operation, 4747 Harrison Ave, P.O. Box 7002, Rockford, Illinois 61125.







QAD Inspection Plate Figure 1

PART NUMBER: F80-0-50007

NAME: WRENCH, SPECIAL TORQUE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: YES

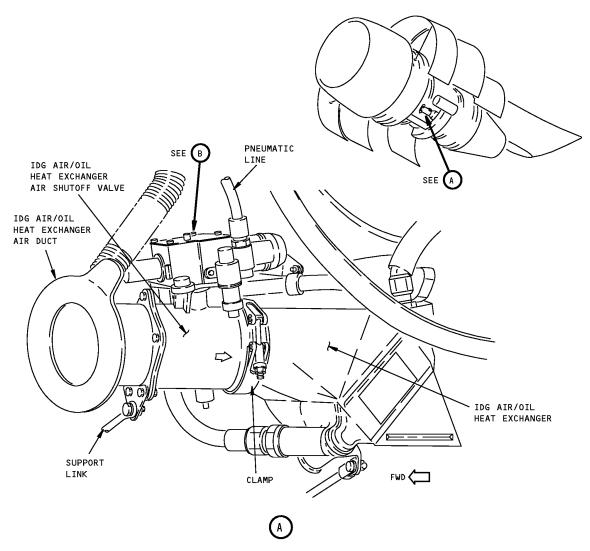
USAGE & DESCRIPTION: The F80-0-50007 special torque wrench is used on all 767 airplanes with CF6-

80A/A2 and JT9D-7R4D engines. This tool is used to remove or install the IDG heat exchanger shutoff valve filter retainer (P/N 2803799-101) on Parker Hannifin IDGS 3.5 inch shutoff valve assembly (P/Ns 2790592-101, -102,-103). Refer to CMM 24-10-01 and AMM 24-11-07 for further usage instructions.

NOTE: This tool is a supplier proprietary item and can only be obtained

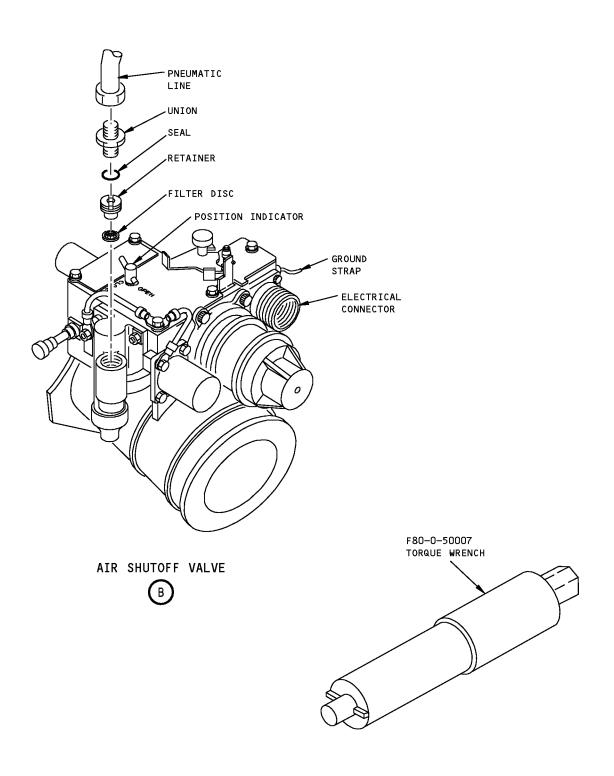
from Parker Hannifin, Irvine, California 92618.





IDG Air/Oil Heat Exchanger Air Shutoff Valve Location Figure 1





Special Torque Wrench Figure 2



PART NUMBER: G24005-24

NAME: DISPATCH EQUIPMENT - IDG, CF6-80C2 ENGINE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to prepare the engine for use with the integrated drive

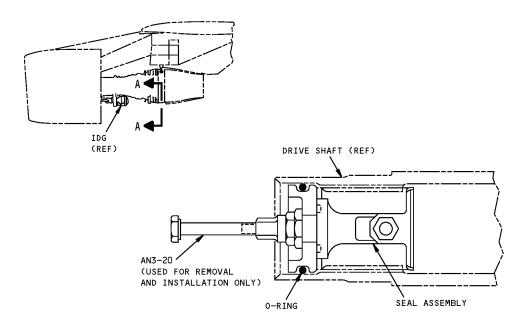
generator removed. See Maintenance Manual 24-11-01 and 24-11-17 for complete instructions. This tool consists of a cover assembly, bypass tube

assembly, cap, o-ring and seal assembly.

WEIGHT: 13 lbs (6 kg)

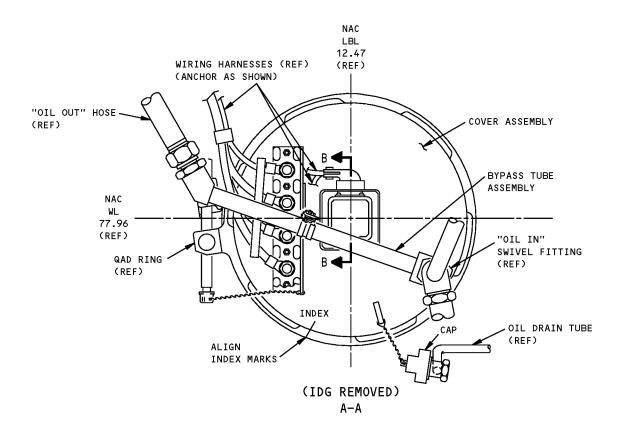
DIMENSIONS: 11 x 12 x 15 inches (279 x 305 x 381 mm)

NOTE: G24005-24 supersedes G24005-1.



IDG, CF6-80C2 Engine Dispatch Equipment Figure 1 (Sheet 1 of 2)





IDG, CF6-80C2 Engine Dispatch Equipment Figure 1 (Sheet 2 of 2)

24-10-03

PART NUMBER: G24009-1

NAME: IDG DISPATCH KIT - RB211-524 ENGINE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

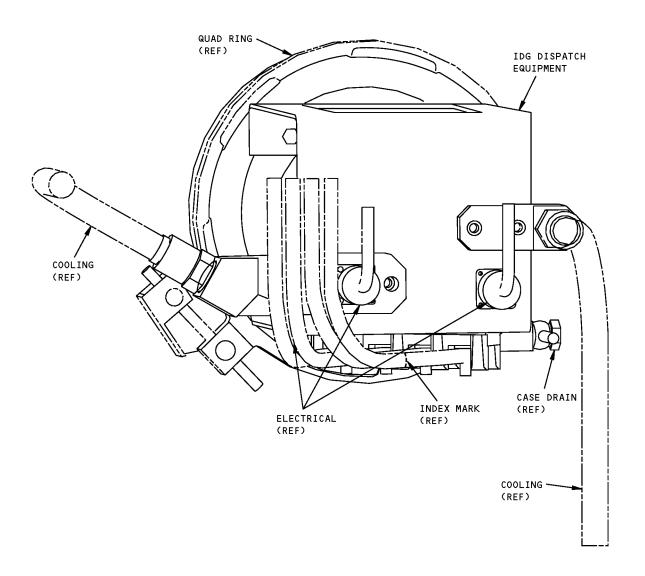
USAGE & DESCRIPTION: This tool is used to prepare the engine for use with the integrated drive

generator. This tool consists of a -5 support assembly, -8, and -13 coolant support assemblies, -10 cover plate assembly, -12 receptacle assembly and

a -3 box assembly.

DIMENSIONS: 11 x 11 x 12 inches (279 x 279 x 305 mm)





RB211-524 Engine IDG Dispatch Kit Figure 1

24-10-04

PART NUMBER: A24011-1

NAME: HOIST ADAPTER ASSEMBLY - INTEGRATED DRIVE GENERATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A24011-1 hoist adapter assembly is used on 767-400 airplanes equipped

with General Electric engines. This tool is used in conjunction with either J20009 hydraulic telescoping jack or the A20001 boom hoist and the J20002 load positioner to remove and install the integrated drive generator (IDG) from the engine. Refer to AMM 24-11-01 and current A24011 drawing for additional usage instructions. A24011-1 consists of an A24011-2 hoist adapter

and a storage box.

NOTE: For airplanes other than 767-400, refer to A71013 hoist adapter and

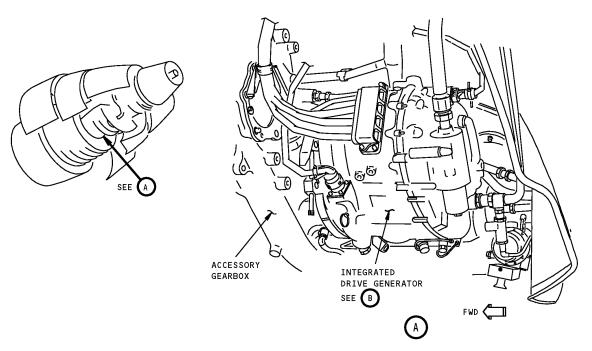
A71015 lift fixture.

WEIGHT: 49 lbs (22 kg)

DIMENSIONS: 8 x 14 x 22 inches (203 x 356 x 559 mm)

NOTE: A24011-1 replaces J24002-73 for future procurement.

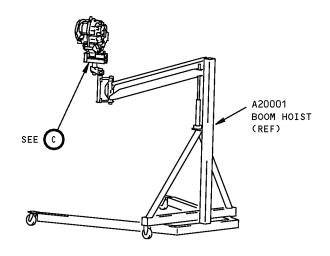


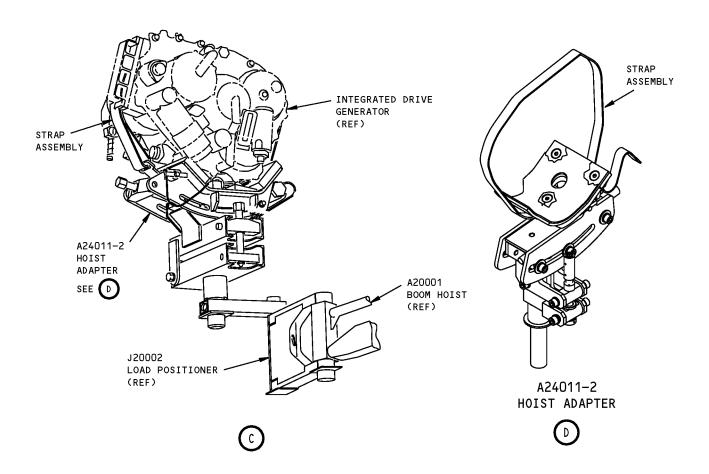


Integrated Drive Generator Hoist Adapter Assembly Figure 1 (Sheet 1 of 2)



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Integrated Drive Generator Hoist Adapter Assembly Figure 1 (Sheet 2 of 2)

24-10-05



PART NUMBER: G24013-1

NAME: ACCESSORY ADAPTER - HOIST SYSTEM RB211 AND CF6-50 ENGINES

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used in conjunction with G24011 to provide for support of the

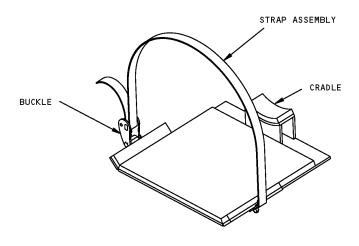
integrated drive generator (IDG) on RB211 engine and the constant speed drive and generator for CF6-50 engine. Refer to AMM 24-11-00 for further usage instructions. This tool consists of a cradle assembly and a storage box assembly. The cradle assembly consists of a cradle, a strap assembly, a

buckle and related hardware.

DIMENSIONS: 5 x 15 x 18 inches (127 x 381 x 457 mm)

NOTE: A71013 replaces G24013 for future procurement.

G24013 replaces 2ME65B89603 for future procurement.



CRADLE ASSEMBLY

Hoist System RB211 and CF6-50 Engines Accessory Adapter Figure 1



PART NUMBER: 2ME65B89603

NAME: ACCESSORY ADAPTER - HOIST SYSTEM, RB211-524, CF6-50 ENGINES

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

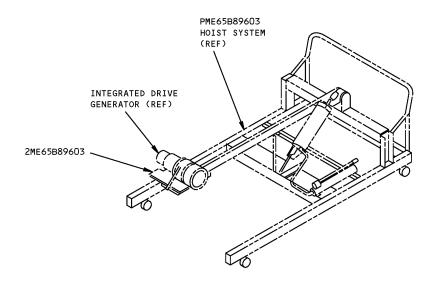
USAGE & DESCRIPTION: This tool is used to provide for support of the integrated drive generators for

RB211 engine and the constant speed drive and generator for the CF6-50 engine, during accessory installation. The adapter is used with and mounts to PME65B89603 accessory hoist system. The accessory adapter is a steel welded tray incorporating strap tie loops, attachment provisions to the hoist

system, and neoprine padding on the accessory contact surface.

NOTE: A71013 replaces 2ME65B89603 for future procurement.

G24013 replaces 2ME65B89603 for future procurement.



Hoist System RB211-524 and CF6-50 Engines Accessory Adapter Figure 1

PART NUMBER: A24012-1

NAME: DISPATCH KIT - INTEGRATED DRIVE GENERATOR, PRATT AND WHITNEY

ENGINES

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: A24012-1 is used on all 767 airplanes with PW4000 and JT9D-7R4 D/Egines

installed. A24012-1 allows the airplane to be flown when an engine's integrated drive generator has been removed. The A24012-1 dispatch kit consists of a -2 dispatch assembly and a -3 seal assembly. The -2 contains the frame assembly, connector assembly and connecting hardware. The -3 seal assembly contains o-ring seals and a special Pratt and Whitney 776441

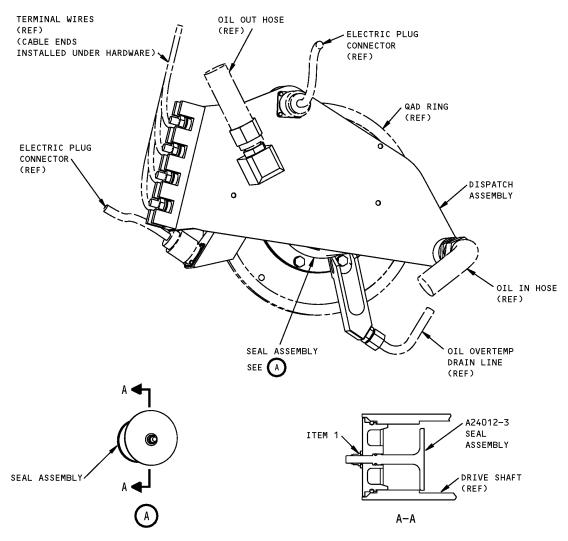
nut. The dispatch kit is contained in a storage box.

WEIGHT: 25 lbs (11 kg)

DIMENSIONS: 15 x 15 x 18 inches (381 x 381 x 457 mm)

NOTE: A24012-1 replaces G24007-1 for future procurement.





Integrated Drive Generator, Pratt and Whitney Engines, Dispatch Kit Figure 1

REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE		
1	776441	NUT	V3B116		

PART NUMBER: J24015-1

NAME: Pressure Test Equipment - Engine Generators

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The J24015-1 pressure test equipment is used on all 767 airplanes. J24015

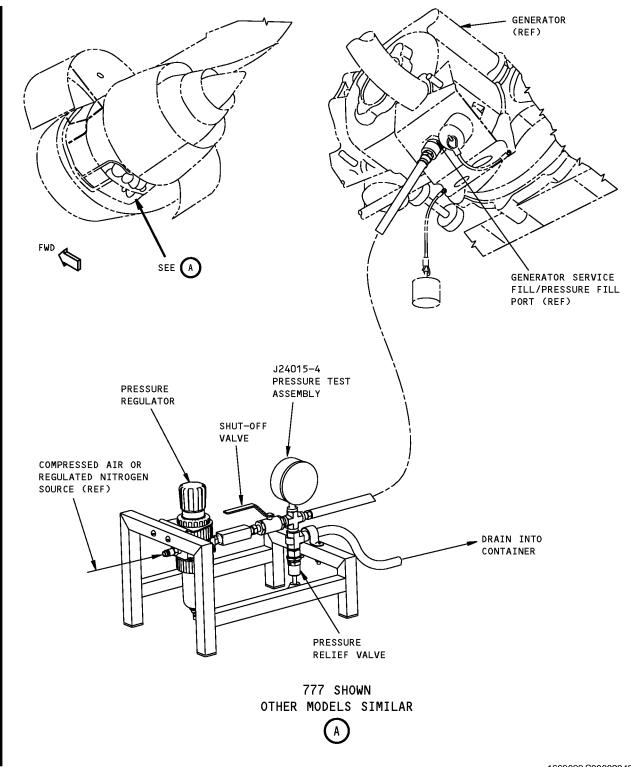
applies compressed air or nitrogen to the integrated drive generator (IDG) oil system through the IDG pressure fill fitting. The pressure is monitored for a pressure decrease. A continuous decrease in pressure indicates a leak in the system. Refer to the current J24015 drawing and AMM 24-11-00 for complete usage instructions. J24015-1 consists of a J24015-4 pressure test

assembly contained in a storage box.

WEIGHT: 21 lbs (10 kg)

DIMENSIONS: 12 x 15 x 18 inches (305 x 381 x 457 mm)





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Engine Generators Pressure Test Equipment Figure 1

24-10-09

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PART NUMBER: A24004-1, -2

NAME: TEST RELAY - ISOLATION REQUEST, POWER DISTRIBUTION SYSTEM

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: To test AC power system switching in autoland mode. The tool consists of 2

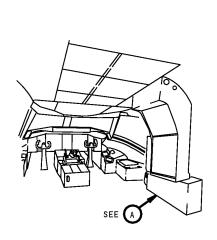
plug-in test relay assemblies. The -1 relay is used on airplanes with

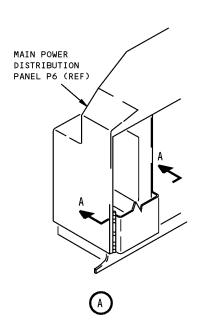
BACR13CF relay. The -2 relay is used on airplanes with BACR13CG relay. The -2 is also used on 757 airplanes with BACR13CG relay. Refer to AMM 24-22-00 for further usage instructions. The -1 consists of a -3 test relay

assembly. The -2 consists of a -4 test relay assembly. Both -1 and -2 have

storage boxes.

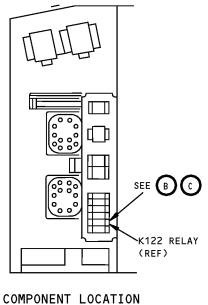
DIMENSIONS: 3 x 5 x 6 inches (76 x 127 x 152 mm)



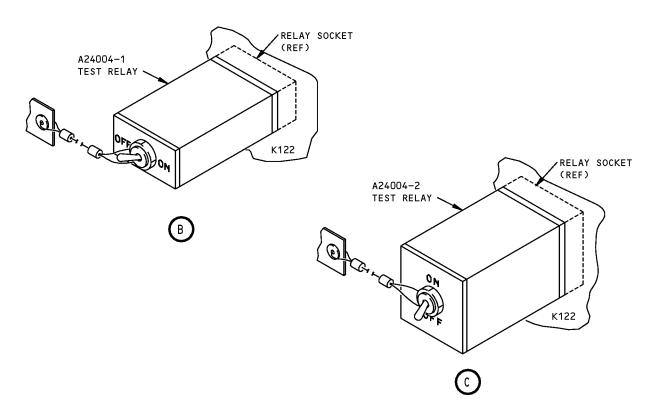


Power Distribution System Isolation Request Test Relay Figure 1 (Sheet 1 of 2)





COMPONENT LOCATION A-A



Power Distribution System Isolation Request Test Relay Figure 1 (Sheet 2 of 2)

24-20-01

PART NUMBER: A24008-19, -27, -37

NAME: TEST BOX - HYDRAULIC MOTOR DRIVEN GENERATOR CONTROL UNIT

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A24008-19, -27, and -37 test boxes are used on 767 airplanes that are

equipped with Abex (part numbers 21428 or 21428-01) generator control units (GCU) used for controlling the Abex 5KVA hydraulic motor driven generators (HMG). The A24008 is used to simulate hydraulic motor driven generator control unit operation. Refer to AMM 24-25-00 and current A24008 drawing for additional usage instructions. A24008-19 consists of an A24008-20 test box assembly contained in a storage box. A24008-27 consists of an A24008-28 test box assembly contained in storage box. A24008-37 consists of an A24008-38

test box assembly contained in a storage box.

WEIGHT: A24008-19, -27 - 5 lbs (2.3 kg)

A24008-37 - 12 lbs (5.4 kg)

DIMENSIONS: A24008-19, -27 - 3 x 5 x 7 inches (76 x 127 x 178 mm)

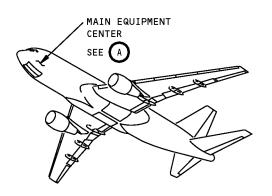
A24008-37 - 4 x 10 x 17 inches (102 x 254 x 432 mm)

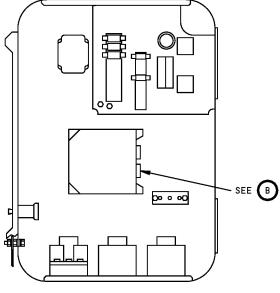
NOTE: A24008-37 replaces A24008-19 and A24008-27 for future procurement.

A24008-19 supercedes A24008-1.



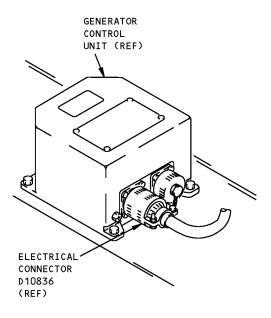
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HYDRAULIC GENERATOR POWER PANEL P65



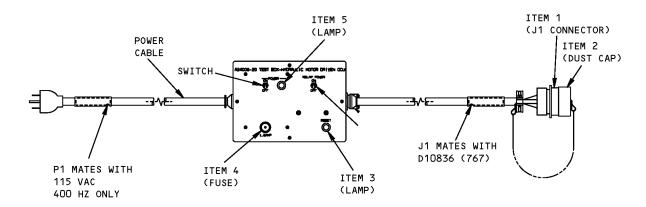


HYDRAULIC MOTOR DRIVEN GENERATOR CONTROL UNIT

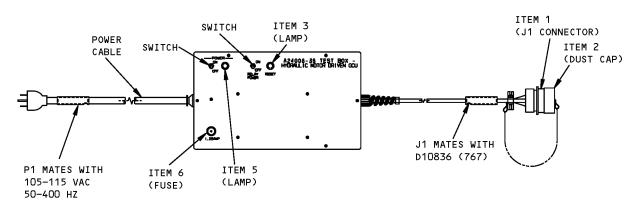


Hydraulic Motor Driven Generator Control Unit Test Box Figure 1 (Sheet 1 of 2)





A24008-20 TEST BOX SHOWN A24008-28 SIMILAR



A24008-38 TEST BOX

Hydraulic Motor Driven Generator Control Unit Test Box Figure 1 (Sheet 2 of 2)

24-20-02



REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	M83723/83R1624	CONNECTOR		
2	M83723/60-116AC	CAP, DUST		
3	507-4761-3331-500	LAMP, 28V DC	V83330	
4	31201-5	FUSE	V75915	
5	507-5337-0931-670	LAMP	V83330	
6	3121.25	FUSE	V83330	



PART NUMBER: A49002-1, -2

NAME: LIFTING EYE - APU GENERATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

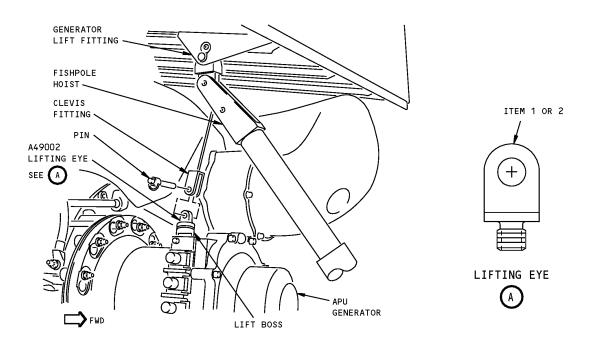
USAGE & DESCRIPTION: The A49002-1 is used on 767-200, -300 airplanes with a helicoil insert in the lift

boss of the generator (3/8-24UNF threads). The A49002-2 is used on 767-200, -300, -400 airplanes with a stainless steel insert in the lift boss of the generator (3/8-16UNF threads). A49002-1 and -2 is used in conjunction with a fishpole hoist as a lift point for removal/installation of the APU generator. Refer to

AMM 24-21-01 for complete usage instructions.

WEIGHT: 0.5 lbs (0.2 kg)

DIMENSIONS: 1 x 1.5 inches (25 x 38 mm)



APU Generator Lifting Eye Figure 1

REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE		
1	A49002-1	LIFTING EYE			
2	A49002-2	LIFTING EYE			

PART NUMBER: A24005-1

NAME: LOAD BANK - DC GENERATION SYSTEM

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to load the Transformer Rectifier Unit (TRU) during test of

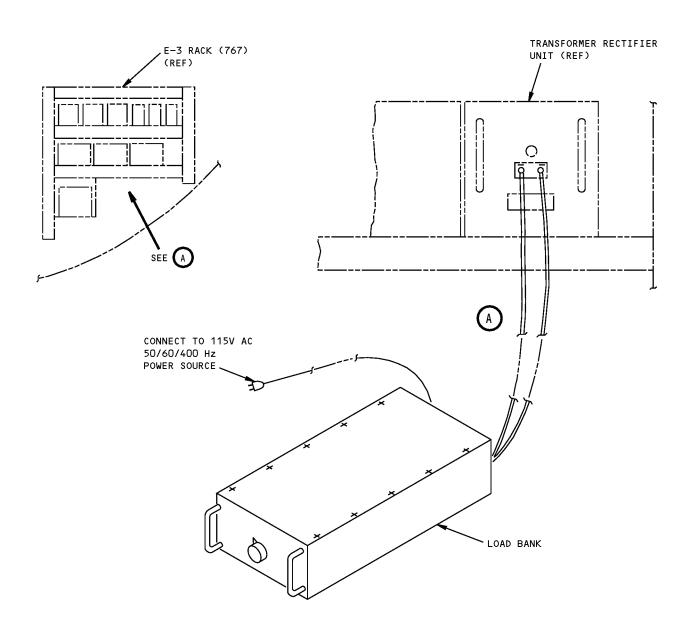
the DC generation system. Refer to AMM 24-30-00 for further usage

instructions.

WEIGHT: 15 lbs (7 kg)

DIMENSIONS: 8 x 14 x 27 inches (203 x 356 x 686 mm)





DC Generation System Load Bank Figure 1

24-30-01

PART NUMBER: F70284-1

NAME: WEAR GAGE SET - GROUND POWER PLUG AND RECEPTACLE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This gage set is used to check for wear on the pins and sockets of the ground

power plug and receptacle. The tool measures a disengagement force of 10 lbs. for each large pin socket and 5 lbs. for each small pin socket on the ground power plug. On the ground power receptacle, the gage acts as a go/no-go gage by fitting over the receptacle pins. The receptacle pins are worn if the gage will fit over the pins. The tool set consists of two gage assemblies

and a scale with 5 lb. and 10 lb. increments.

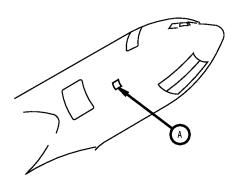
WEIGHT: 4 lbs (1.8 kg)

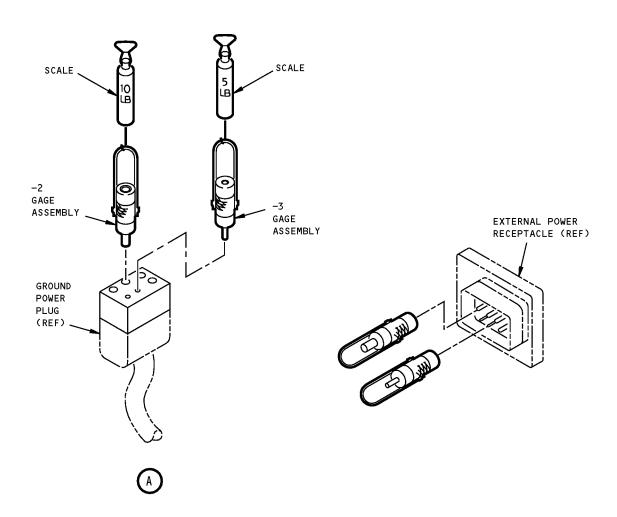
DIMENSIONS: 4 x 7 x 13 inches (102 x 178 x 330 mm)

NOTE: F70284-1 supercedes SE24-4001



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Ground Power Plug and Receptacle Wear Gage Set Figure 1

PART NUMBER: A24007-1

NAME: SUPPORT - ELECTRICAL GROUND POWER CABLE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to relieve the strain on the external power receptacle by

supporting the ground power cable. Refer to AMM 24-41-00 and AMM 24-22-00 for further usage instructions. This tool is used on all 767 airplanes. This

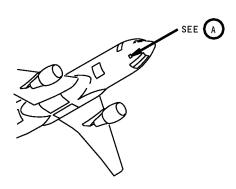
tool consists of a support assembly and a storage box assembly.

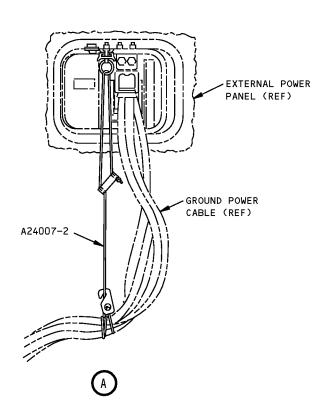
WEIGHT: 1 lb (0.45 kg)

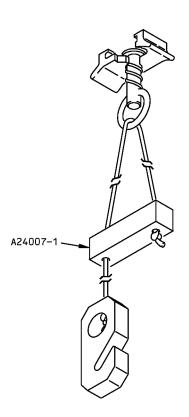
DIMENSIONS: 8 x 8 x 2 inches (203 x 203 x 51 mm)



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Electrical Ground Power Cable Support Figure 1

24-40-02

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