CHAPTER

27

FLIGHT CONTROLS

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2	Sep 20/2006	1	Sep 20/2006	2	Sep 20/2006
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A 2	Sep 20/2008	3	Sep 20/2006	R 3	Sep 20/2008
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R 3	Sep 20/2008	2	Sep 20/2006	2	Sep 20/2006
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PART NUMBER: A27038-1, -6, -10

NAME: BREAKOUT BOX - PRINTED CIRCUIT CARD

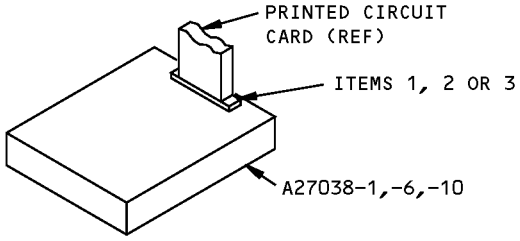
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool consists of three assemblies that are used to functional test printed circuit cards having common connectors. The -1 breakout box assembly tests cards with 66-pin connectors, the -6 tests cards with 114-pin connectors, and the -10 tests cards with 41-pin connectors. Refer to breakout box B27018 for usage of A27038-10 to test flap slat electronic unit.

WEIGHT:
A27038-1 - 2 lbs
A27038-6 - 3 lbs
A27038-10 - 4 lbs

DIMENSIONS:
A27038-1 - 2 x 7 x 11 inches
A27038-6 - 3 x 12 x 12 inches
A27038-10 - 2 x 7 x 7 inches



Printed Circuit Card Breakout Box
Figure 1

REAPIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	300052-001	CONNECTOR	V03877
2	300206-001	CONNECTOR	V03877
3	300055-001	CONNECTOR	V03877

PART NUMBER: A27039-1, -19, -26, -27

NAME: BREAKOUT BOX - BENCH TEST

AIRPLANE MAINTENANCE: NO

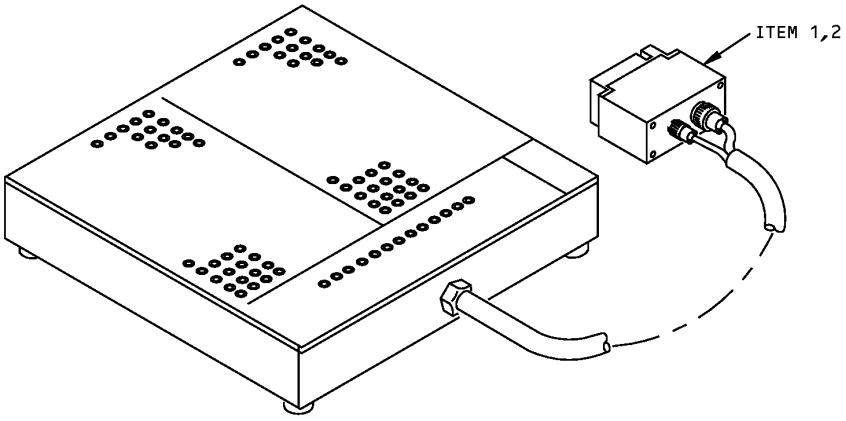
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool consists of two breakout boxes that are used to functionally test electronic equipment having ARINC 600 connectors. Breakout box A27039-1 and -26 are used for ARINC 600 size 2 connectors and A27039-19 and -27 are used for ARINC 600 size 1 connectors.

WEIGHT: A27039-1, -26 - 10 lbs (4.5 kg)
A27039-19, -27 - 8 lbs (3.6 kg)

DIMENSIONS: A27039-1, -26 - 3 x 17 x 17 inches (76 x 432 x 432 mm)
A27039-19, -27 - 3 x 12 x 12 inches (76 x 305 x 305 mm)

NOTE: A27039-26 and -27 replaces -1 and -19 respectively, for further procurement. A27039-19 tool supersedes A27039-9.



Bench Test Breakout Box
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	BKAD1-125-30001	CONNECTOR	V71468
2	BKAD2-313-30001 S612MG13W2 P0001	CONNECTOR (OPT TO BKAD2-313-30001)	V71468 V59610

PART NUMBER: A27030-66

NAME: TEST BOX - POWER SUPPLY, CONTROL SYSTEM ELECTRONICS UNIT

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

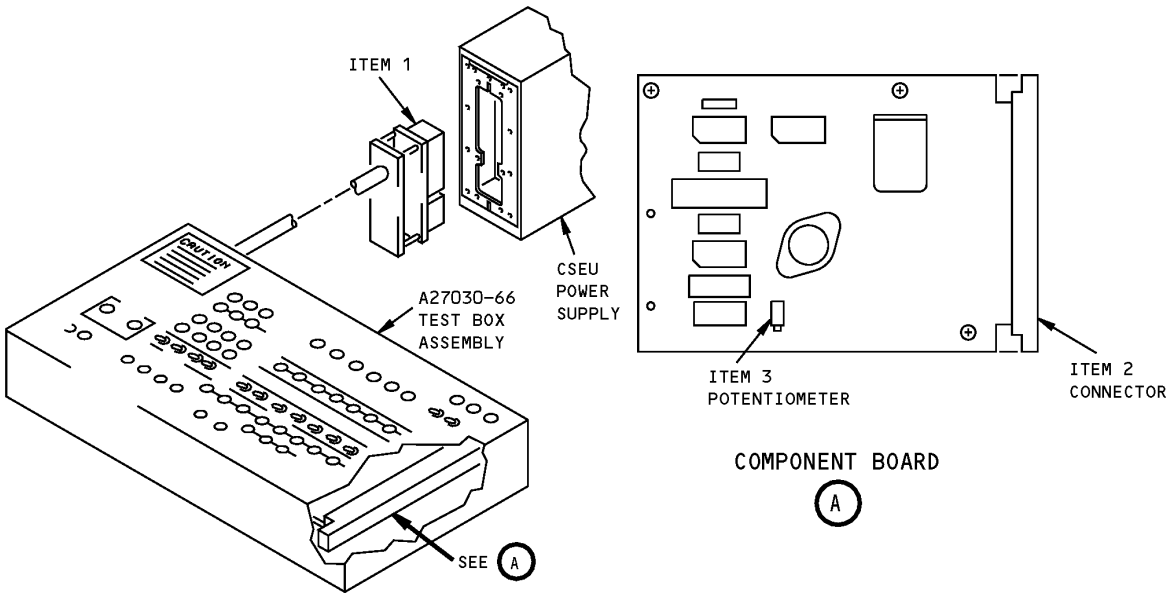
USAGE & DESCRIPTION: The A27030 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A27030 inclusion in the 757 ITEM is for information and historical purposes only.

The A27030-66 test box is used during component maintenance on 757 passenger airplanes equipped with the 285T0017-1XX series control system electronics unit (CSEU) but not the 285T0017-2XX and on series CSEU. The reference equipment numbers are M536, M537, M538 and M539. A27030 is used for a functional test of the power supply. Refer to CMM 27-09-56 and CMM 27-09-57 for complete usage instructions. A27030-66 consists of banana jacks, lamps, switches, connectors, a fan and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 10 lbs (4.5 kg)

DIMENSIONS: 5 x 17 x 20 inches (127 x 431 x 508 mm)

NOTE: A27030-66 supersedes A27030-51.



Control System Electronics Unit Power Supply Test Box
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	BKAE2-313-30001	CONNECTOR	V71468
2	R636-2	CONNECTOR	V82893
3	68W-100K	TRIM POTENTIOMETER	V05721

PART NUMBER: A27045-16

NAME: TEST BOX - NOISE, CONTROL SYSTEM ELECTRONICS UNIT (CSEU) POWER SUPPLY

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

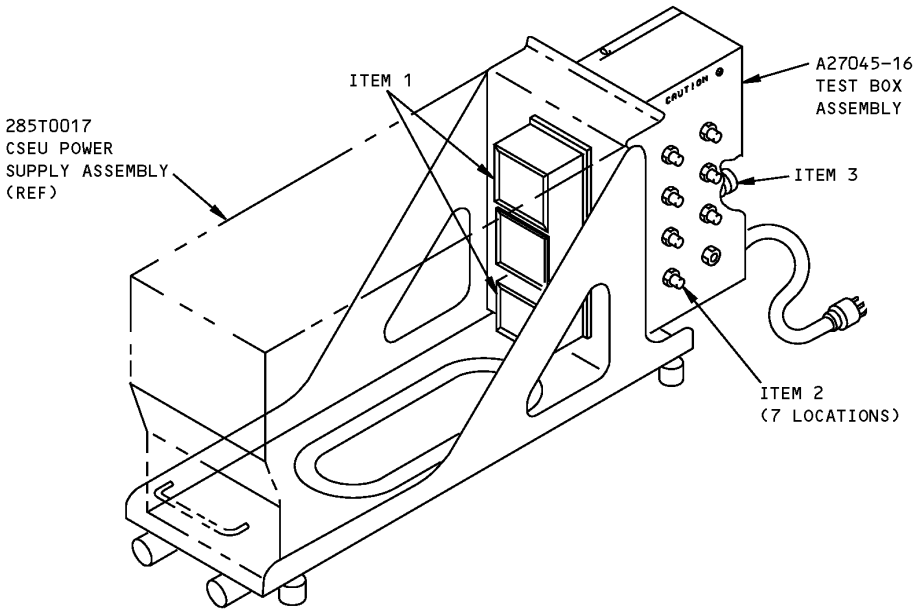
USAGE & DESCRIPTION: The A27045 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A27045 inclusion in the 757 ITEM is for information and historical purposes only.

The A27045-16 test box is used during component maintenance on 757-200 airplanes only. A27045 is used on airplanes which use the 285T0017-1XX series CSEU but not the 285T0017-2XX and on series CSEU. Reference equipment numbers are M536, M537, M538 and M539. A27045 is used to test for noise in the 286T0017-1XX series CSEU. Refer to CMM 27-09-56 and CMM 27-09-57 for complete usage instructions. A27045-16 consists of a printed circuit board, test jacks, resistors, a connector, a fuse and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 8 lbs (3.6 kg)

DIMENSIONS: 4 x 9 x 22 inches (102 x 229 x 559 mm)

NOTE: A27045-16 supersedes A27045-1.



Test Box - Noise, CSEU Power Supply
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	BKAE2-313-30001	CONNECTOR	V71468
2	131-0258-00	TEST JACK	V80009
3	313002	FUSE	V75915

PART NUMBER: A27053-26, -29

NAME: TEST BOX - MONITOR, CONTROL SYSTEM ELECTRONICS UNIT (CSEU) POWER SUPPLY

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

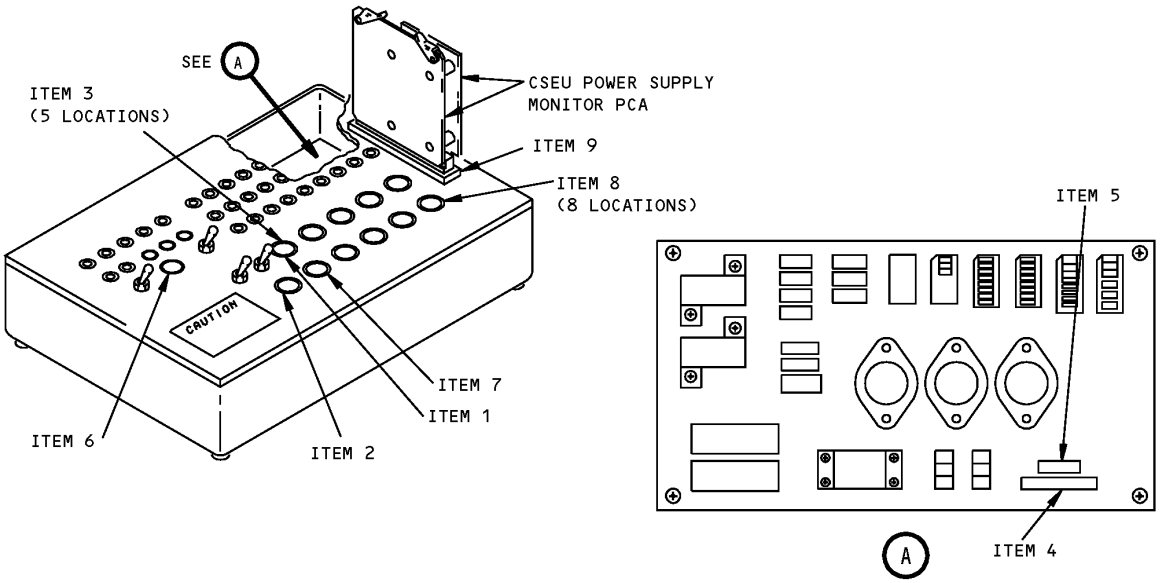
USAGE & DESCRIPTION: The A27053 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A27053 inclusion in the 757 ITEM is for information and historical purposes only.

The A27053-26 or -29 test box is used during component maintenance on 757-200 airplanes only. A27053 is used on airplanes which use the 285T0017-1XX series CSEU but not the 285T0017-2XX and on series CSEU. Reference equipment numbers are M536, M537, M538 and M539. A27053 is used to test the CSEU monitor printed circuit card. Refer to CMM 27-09-56 and CMM 27-09-57 for complete usage instructions. A27053-26 or -29 consists of banana jacks, resistors, a connector, switches, potentiometers, a lamp and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 10 lbs (4.5 kg)

DIMENSIONS: 3 x 10 x 14 inches (76 x 254 x 356 mm)

NOTE: A27053-29 replaces A27053-26 for future procurement.



CSEU Power Supply Monitor Test Box
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	PS-57	WAFER	V99942
2	PA-221	SWITCH	V99942
3	PA-513	SWITCH	V99942
4	78PR100K	POTENTIOMETER	V80740
5	89XR10K	POTENTIOMETER	V80740
6	312 001	FUSE	V75915
7	7286R10K	POTENTIOMETER	V80740
8	7286R500	POTENTIOMETER	V80740
9	300052-003	CONNECTOR	V03877

PART NUMBER: A27052-1

NAME: TEST BOX - REGULATOR, CONTROL SYSTEM ELECTRONICS UNIT (CSEU) POWER SUPPLY

AIRPLANE MAINTENANCE: NO

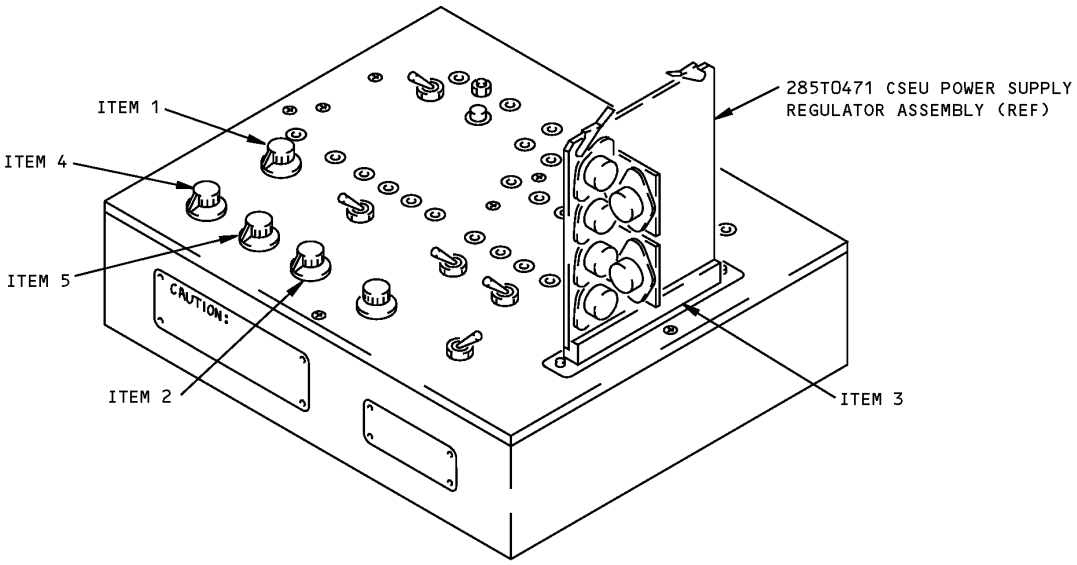
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27052 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A27052 inclusion in the 757 ITEM is for information and historical purposes only.

The A27052-1 test box is used during component maintenance on 757-200 airplanes only. A27052 is used on airplanes which use the 285T0017-1XX series CSEU but not the 285T0017-2XX and on series CSEU. Reference equipment numbers are M536, M537, M538 and M539. A27052 is used to test the regulator card of the CSEU power supply. Refer to CMM 27-09-56 and CMM 27-09-57 for complete usage instructions. A27052-1 consists of banana jacks, resistors, a connector, switches, potentiometers, a lamp and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 9 lbs (4.1 kg)

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



CSEU Power Supply Regulator Test Box
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	7286R20KL.25	POTENTIOMETER	V32997
2	VWS200	POTENTIOMETER	V32997
3	300052-003	CONNECTOR	V03877
4	VWS50	POTENTIOMETER	V32997
5	7286R1KL.25	POTENTIOMETER	V32997

PART NUMBER: A27044-53

NAME: TEST BOX - CONVERTER, CONTROL SYSTEM ELECTRONICS UNIT (CSEU) POWER SUPPLY

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

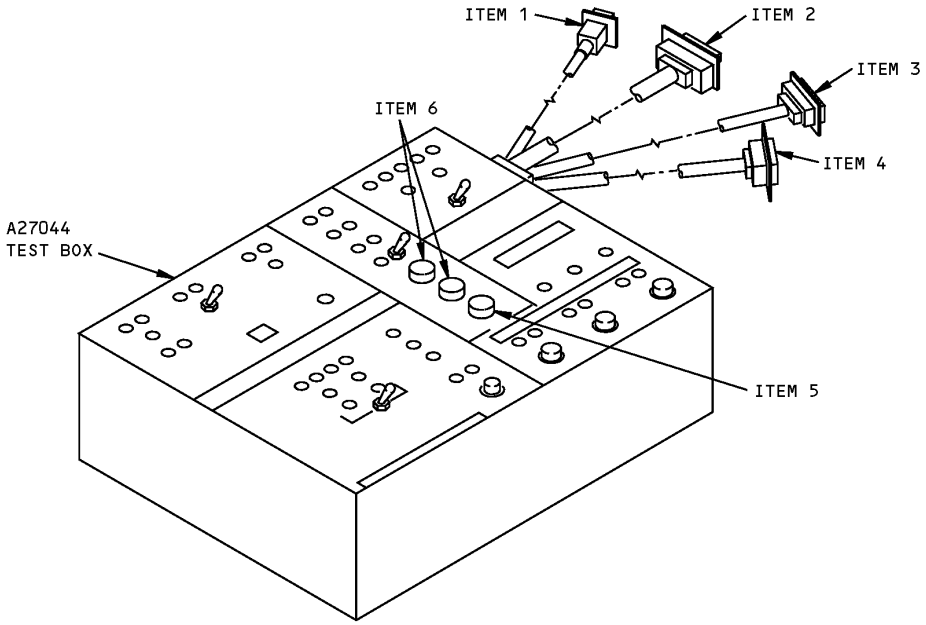
USAGE & DESCRIPTION: The A27044 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A27044 inclusion in the 757 ITEM is for information and historical purposes only.

The A27044-53 test box is used during component maintenance on 757-200 airplanes only. A27044 is used on airplanes which use the 285T0017-1XX series CSEU but not the 285T0017-2XX and on series CSEU. A27044 is used to test the CSEU power supply filter, chopper/regulator/filter and converter assemblies. Refer to CMM 27-09-56 and CMM 27-09-57 for complete usage instructions. A27044-53 consists of switches, transformers, a relay, a fan, resistors, potentiometers, connectors and electrical circuitry mounted on a panel and chassis assembly.

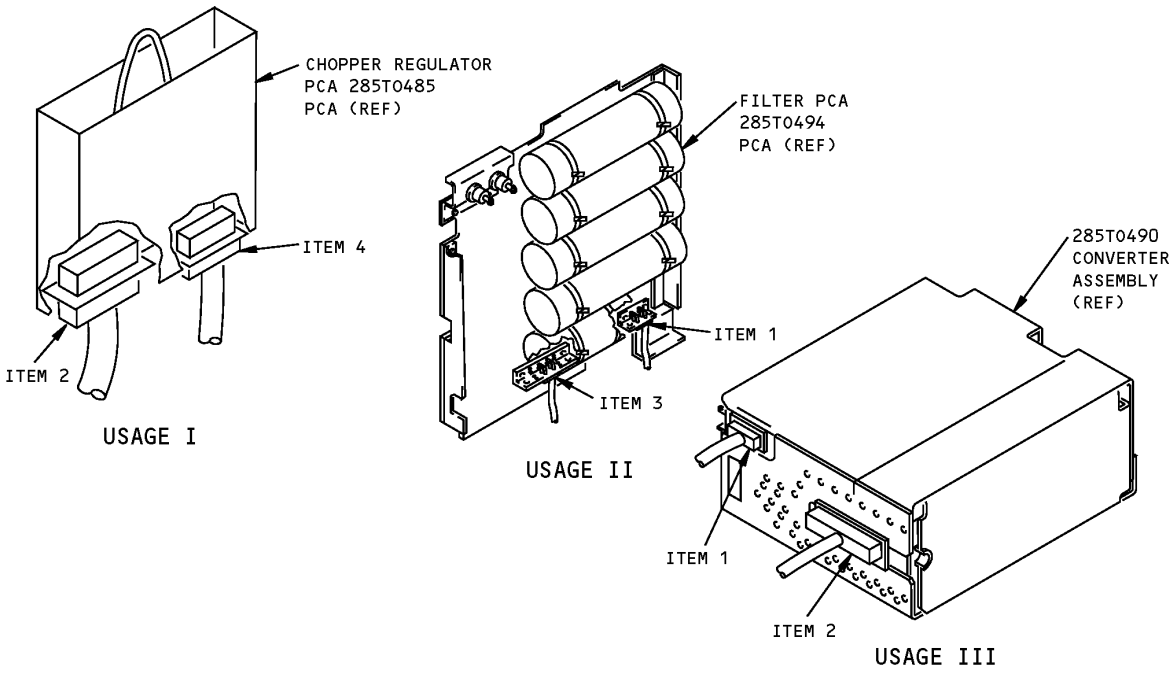
WEIGHT: 15 lbs (7 kg)

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

NOTE: A27044-53 supersedes A27044-44.



CSEU Power Supply Converter Test Box
Figure 1 (Sheet 1 of 2)



CSEU Power Supply Converter Test Box
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	DEMA-9S	P1 CONNECTOR	V71468
2	DCMA-37P	P2 CONNECTOR	V71468
3	DBMA-25P	P3 CONNECTOR	V71468
4	DBMA-25S	P4 CONNECTOR	V71468
5	312.200	0.2 AMP FUSE	V75915
6	312003	3 AMP FUSE	V75915

PART NUMBER: A27059-1

NAME: BREAKOUT BOX - CHOPPER/REGULATOR/FILTER

AIRPLANE MAINTENANCE: NO

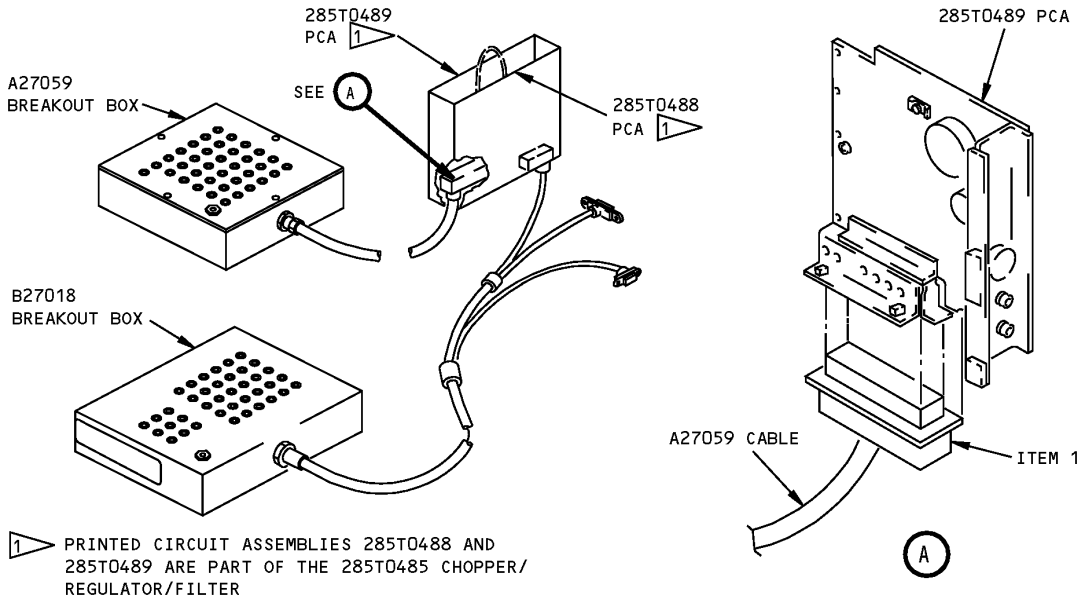
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27059 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A27059 inclusion in the 757 ITEM is for information and historical purposes only.

The A27059-1 breakout box is used during component maintenance on 757-200 airplanes only. A27059 is used on airplanes which use the 285T0017-1XX series CSEU but not the 285T0017-2XX and on series CSEU. Reference equipment numbers are M536, M537, M538 and M539. A27059 is used to test the in conjunction with the B27018 flap slat electronic unit//control system electronic unit (FSEU/CSEU) power supply breakout box to test the 285T0485 CSEU chopper/regulator printed wire assembly (PWA). Refer to CMM 27-09-56 and CMM 27-09-57 for complete usage instructions. A27059-1 consists of banana jacks, connectors and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 5 lbs (2.3 kg)

DIMENSIONS: 4 x 10 x 10 inches (102 x 254 x 254 mm)



Chopper/Regulator/Filter Breakout Box
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	DCC-37P	P1 CONNECTOR	V74868

PART NUMBER: B27018-19

NAME: BREAKOUT BOX - POWER SUPPLY, FLAP/SLAT ELECTRONICS UNIT/ CONTROL SYSTEM ELECTRONICS UNIT (FSEU/CSEU)

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B27018 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The B27018 inclusion in the 757 ITEM is for information and historical purposes only.

The B27018-19 breakout box is used during component maintenance on all 757 airplanes. B27018 is used to test the 285T0017 CSEU power supply unit and the 285N0021 FSEU power supply assembly.

For testing the 285T0017 CSEU, B27018 is used in conjunction with a Fluke 8050A digital multimeter (or equivalent); a Tektronix 466 oscilloscope (or equivalent); a Simpson 260 multimeter (or equivalent); a 120 VAC in, 140 VAC out, 250 KVA minimum, Powerstat, type VS3, PN 116B or equivalent, variable transformer; a 115 VAC, 400 Hz, isolation transformer, PN 4C53, Sterling Transformer (or equivalent); a 0-100 VDC, PN 6443B Hewlett Packard DC power supply (or equivalent); a 0-30 VDC, 500 mA, DC power supply and a Clarostat Model 240-C power Decade Resistance Box and Boeing B27018 and A27038 breakout boxes. Refer to CMM 27-09-56 for complete usage instructions.

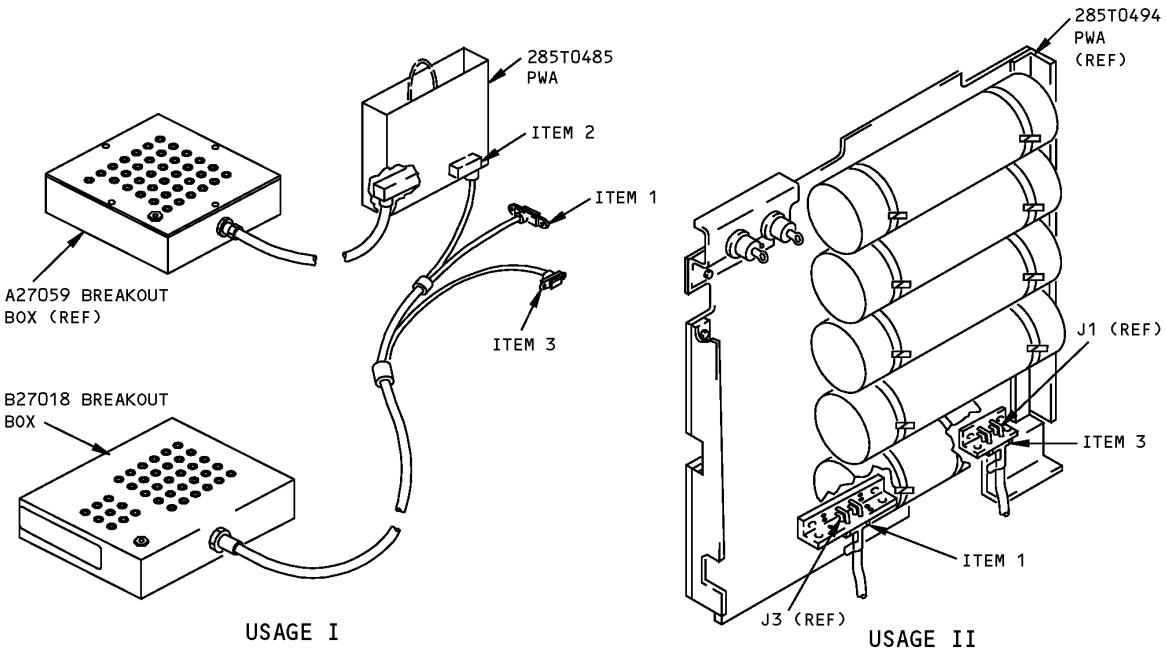
For testing the 285N0021 FSEU, B27018 is used in conjunction with two Keithley 173A digital multimeters (or equivalent); a Tektronix 466 oscilloscope (or equivalent); a Simpson 260 multimeter (or equivalent); a 0-125 VAC, 400 Hz, isolated variable transformer; a 0-75 VDC, constant voltage/ constant current DC power supply; a Clarostat Model 240-C power Decade Resistance Box and Boeing B27017 and A27038 breakout boxes. Refer to CMM 27-51-57 for complete usage instructions.

B27018-19 consists of a 34 pin breakout box and three connector cable assemblies.

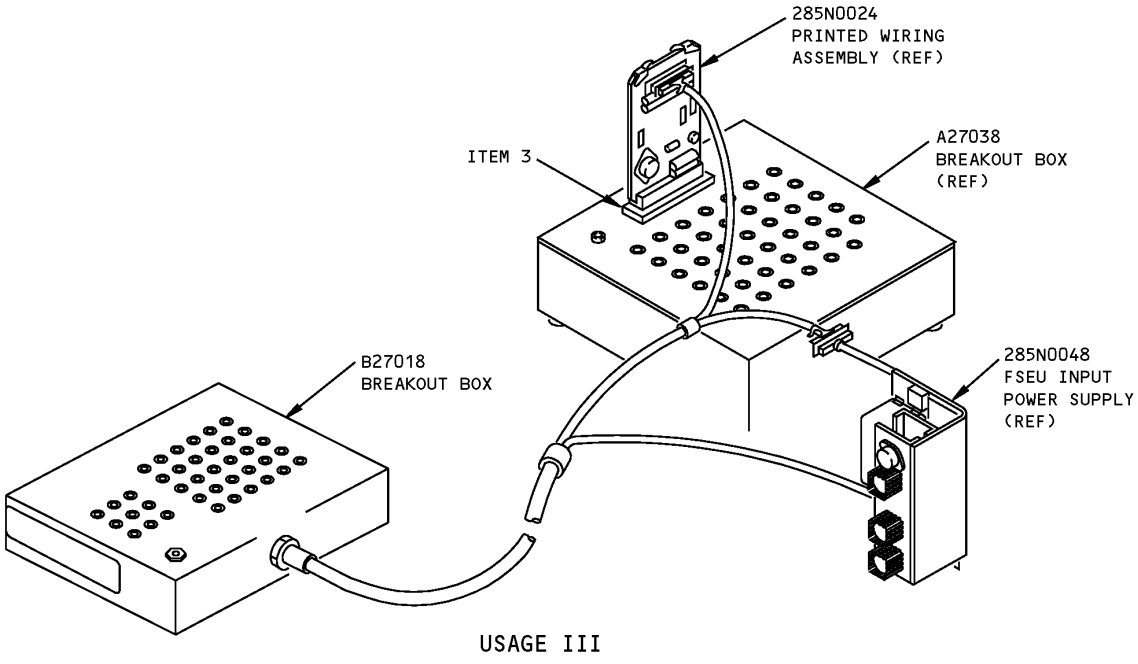
WEIGHT: 4 lb (1.8 kg)

DIMENSIONS: 4 x 10 x 12 inches (102 x 254 x 305 mm)

NOTE: B27018-19 supersedes B27018-1.



FSEU/CSEU Power Supply Breakout Box
Figure 1 (Sheet 1 of 2)



FSEU/CSEU Power Supply Breakout Box
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	DBC-25P	P1 CONNECTOR	V74868
2	DBC-25S	P2 CONNECTOR	V74868
3	DE-9S	P3 CONNECTOR	V74868

PART NUMBER: A27063-88, -91

NAME: BREAKOUT BOX EQUIPMENT - POSITION SENSORS, FLIGHT CONTROLS RIGGING

AIRPLANE MAINTENANCE: YES

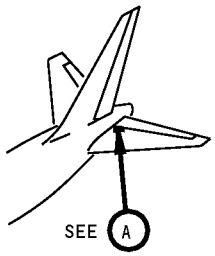
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The breakout box and cable assemblies are used on the airplane to adjust position sensors during rigging of the flight control system and components. There are four options available for adjusting the position sensors. Three of the options use A27062 equipment, as illustrated in Figure 2. Cable assemblies are used to connect the breakout in options I, II and III. The fourth option does not use special tools. It adjusts the transmitter until the position indicator arrow aligns with the mid-scale mark of the position indicator on the EICAS display. The A27063-91 breakout box equipment consists of a -2 breakout box, a -123 data package, a -83 usage placard and various cable assemblies determined by the model applicability, all contained in a storage box. The A27063-88 breakout equipment consists of a -2 breakout box, a -122 data package, a -89 contents placard, a -83 usage placard and various cable assemblies determined by the model applicability, all contained in a storage box.

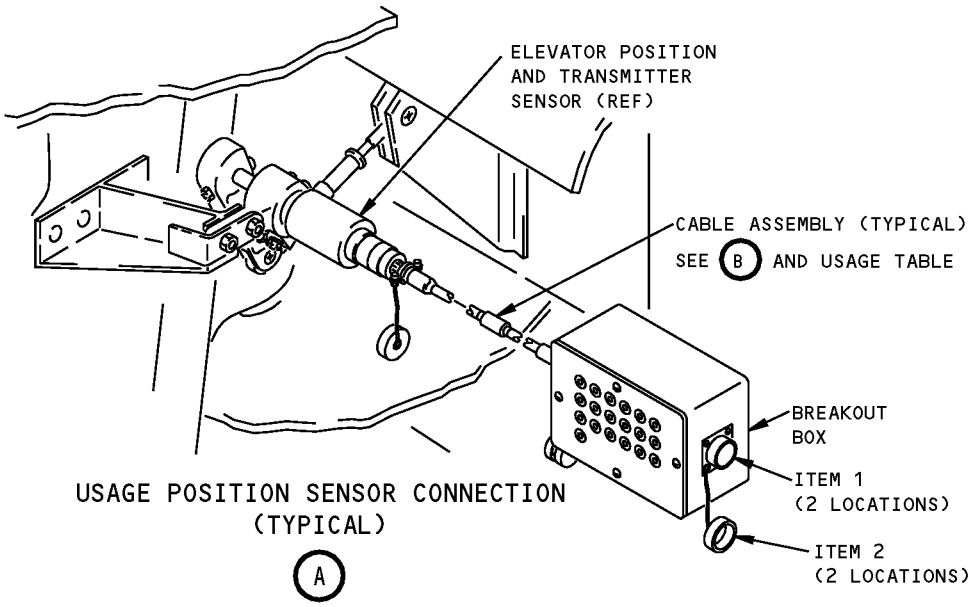
WEIGHT: 15 lbs (7 kg)

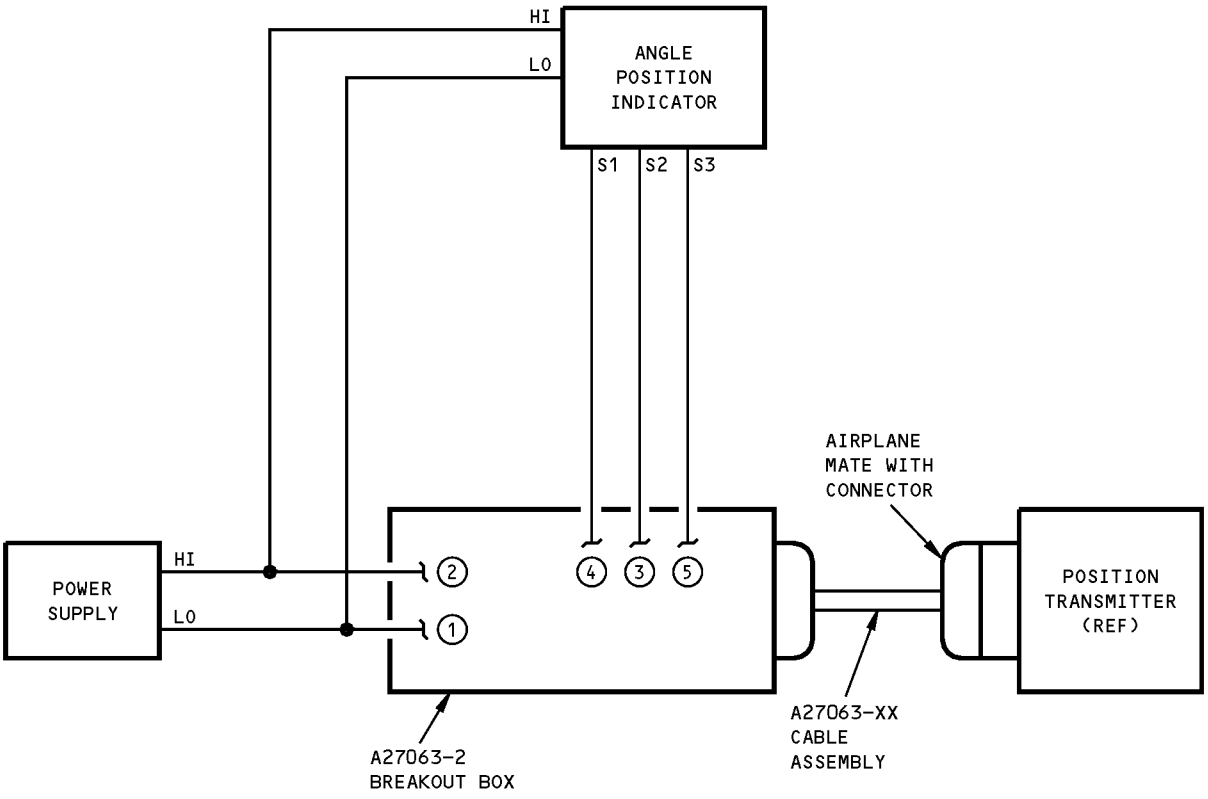
DIMENSIONS: 10 x 20 x 20 inches (254 x 508 x 508 mm)

NOTE: A27063-91 replaces A27063-88 for future procurement.
A27063-88 supersedes A27063-42.

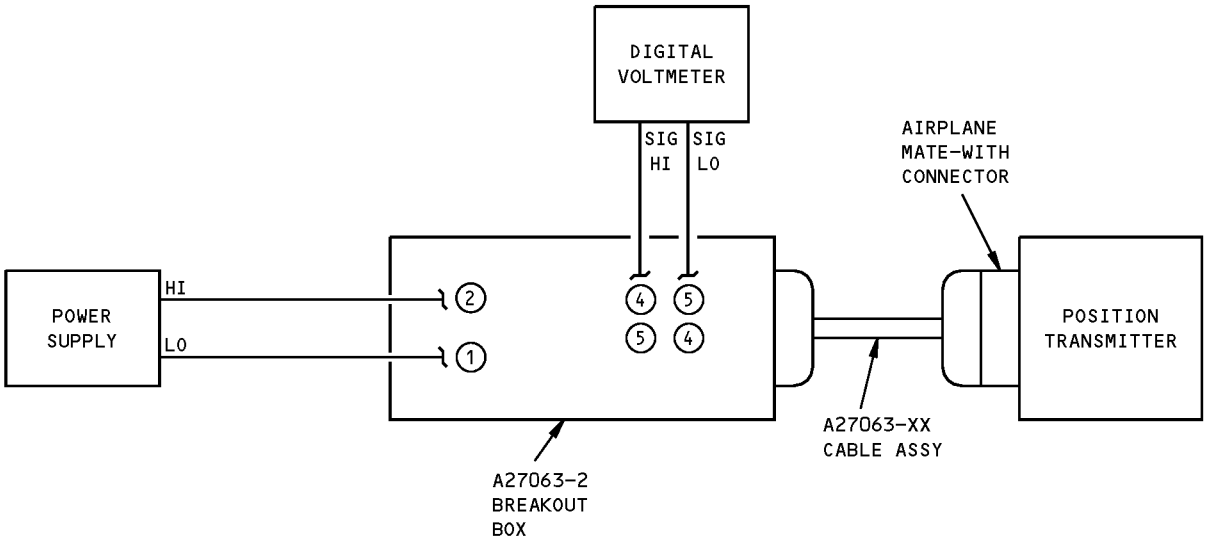


Position Sensor Connection Location
Figure 1

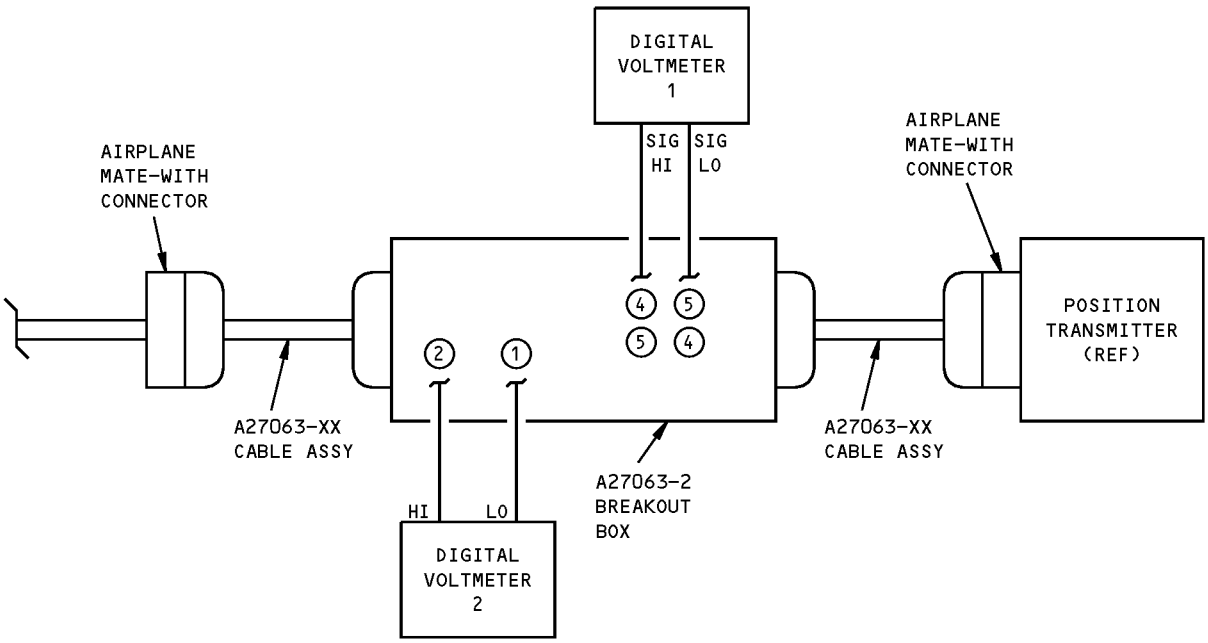




Flight Controls Rigging Position Sensors Breakout Box Equipment Usage
Figure 2 (Sheet 1 of 2)

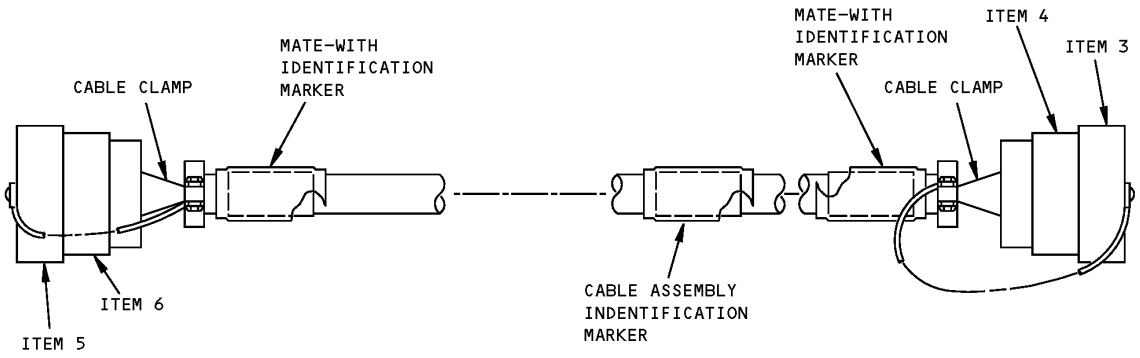


OPTION II



OPTION III

Flight Controls Rigging Position Sensors Breakout Box Equipment Usage
Figure 2 (Sheet 2 of 2)



Flight Controls Rigging Position Sensors Breakout Box Cable Assemblies
Figure 3

CABLE ASSEMBLY USAGE TABLE

POSITION SENSOR	AIRPLANE MATE-WITH CONNECTOR	AMM REF	CABLE ASSEMBLY NUMBER	
			OPTION I AND II	OPTION III
AILERON POSITION TRANSMITTER, LEFT AILERON POSITION TRANSMITTER, RIGHT	D2104 D2066	27-18	-19	-18,-19
AUTOPILOT LATERAL CONTROL SERVO, LEFT AUTOPILOT LATERAL CONTROL SERVO, CENTER AUTOPILOT LATERAL CONTROL SERVO, RIGHT	D25 D45 D65	27-11 22-12	-41	-40,-41
AUTOPILOT ROLLOUT GUIDANCE SERVO, LEFT AUTOPILOT ROLLOUT GUIDANCE SERVO, CENTER AUTOPILOT ROLLOUT GUIDANCE SERVO, RIGHT	D31 D51 D71	27-21 22-13	-41	-40,-41
ELEVATOR FEEL UNIT TRANSDUCER, LEFT ELEVATOR FEEL UNIT TRANSDUCER, CENTER ELEVATOR FEEL UNIT TRANSDUCER, RIGHT	D913 D833 D831	27-31 22-12	-27	-26,-27
ELEVATOR POSITION TRANSMITTER, LEFT MELEVATOR POSITION TRANSMITTER, RIGHT	D2066 D2106	27-31 27-38	-19	-18,-19
ELEVATOR ASYMMETRY LIMITER ACTUATOR	D689	27-31	-29	-28,-29
FLAP POSITION SENSOR, LEFT FLAP POSITION SENSOR, RIGHT	D1251	27-58	-84 ARINC 429 METHOD	
FLAP CONTROL LEVER POSITION TRANSMITTER	D1810	27-51, 27-58	-21	-20,-21
	D1251	27-58	-84 ARINC 429 METHOD	
FLAP PDU POSITION SENSOR	D1906	27-51,	-29	-28,-29
	D1251	27-58	-84 ARINC 429 METHOD	
RUDDER POSITION TRANSMITTER	D1742	27-21	-19	-18,-19
RUDDER RATIO CHANGER TRANSDUCER	D715 D717	27-21	-27	-26,-27
SLAT POSITION SENSOR, LEFT SLAT POSITION SENSOR, RIGHT	D1251	27-58	-84 ARINC 429 METHOD	
SLAT PDU POSITION SENSOR	D1712	27-81,	-31	-30,-31
	D1251	27-58	-84 ARINC 429 METHOD	
CAPT CONTROL WHEEL SPOILER TRANSDUCER	D623 D625 D627	27-61	-21 OPTION: -95	-20,-21 OPTION: -94,-95
F/O CONTROL WHEEL SPOILER TRANSDUCER	D629 D631 D633	27-61	-21 OPTION: -95	-20,-21 OPTION: -94,-95

Cable Assemby Usage Table
Figure 4 (Sheet 1 of 3)

CABLE ASSEMBLY USAGE TABLE

POSITION SENSOR	AIRPLANE MATE-WITH CONNECTOR	AMM REF	CABLE ASSEMBLY NUMBER	
			OPTION I AND II	OPTION III
SPOILER PCA POSITION TRANSDUCER, 1	D641	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 2	D643	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 3	D645	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 4	D647	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 5	D649	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 6	D651	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 7	D653	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 8	D655	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 9	D657	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 10	D659	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 11	D661	27-61	-39	-38,-39
SPOILER PCA POSITION TRANSDUCER, 12	D663	27-61	-39	-38,-39
SPOILER/SPEEDBRAKE TRANSDUCER, 1	D871	27-61	-21	-20,-21
	D875	27-62	-33	-32,-33
SPOILER/SPEEDBRAKE TRANSDUCER, 2	D877	27-61	-21	-20,-21
	D881	27-62	-33	-32,-33
SPOILER/SPEEDBRAKE TRANSDUCER, 3	D873	27-61	-21	-20,-21
	D879	27-62	-33	-32,-33
THROTTLE LEVER ANGLE (TLA) RESOLVER, ROLLS ROYCE ENGINES	D4734	73-21 76-11	-77	-76,-77
THROTTLE LEVER ANGLE (TLA) RESOLVER PRATT AND WHITNEY ENGINES	D4736	73-21 76-11	-23 OPTION -97	-22,-23 OPTION -96,-97
	D5328	73-21 76-11	-23 OPTION -97	-22,-23 OPTION -96,-97
	D4734	73-21 76-11	-23 OPTION -97	-22,-23 OPTION -96,-97
	D5326	73-21 76-11		-22,-23 OPTION -96,-97

Cable Assemby Usage Table
Figure 4 (Sheet 2 of 3)

CABLE ASSEMBLY USAGE TABLE

POSITION SENSOR	AIRPLANE MATE-WITH CONNECTOR	AMM REF	CABLE ASSEMBLY NUMBER	
			OPTION I AND II	OPTION III
THRUST REVERSER POSITION FEEDBACK LVDT	D5534J	78-34	-27	-26,-27
	D5536J	78-34	-27	-26,-27
	D5434J	78-34	-27	-26,-27
	D5436J	78-34	-27	-26,-27
CONTROL WHEEL POSITION TRANSDUCER	D1491	27-11, 11-31	-19	-18,-19
CONTROL COLUMN POSITION TRANSDUCER	D1493	27-31, 31-31	-19	-18,-19
RUDDER PEDAL POSITION TRANSDUCER	D1495	27-21, 31-31	-19	-18,-19
F/O CONTROL WHEEL POSITION TRANSDUCER	D4019	27-11, 31-31	-19	-18,-19
F/O CONTROL COLUMN POSITION TRANSDUCER	D4017	27-31, 31-31	-21	-18,-19
CAPT CONTROL COLUMN POSITION TRANSDUCER	D4043	27-31, 31-31	-19	-20,-21
CAPT CONTROL WHEEL FORCE TRANSDUCER	D4047	27-11, 31-31	-21	-20,-21
F/O CONTROL COLUMN FORCE TRANSDUCER	D4045	27-31, 31-31	-21	-20,-21
F/O CONTROL WHEEL FORCE TRANSDUCER	D4049	27-11, 31-31	-21	-20,-21

Cable Assemby Usage Table
Figure 4 (Sheet 3 of 3)

A27063-2 BREAKOUT BOX ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS27294-6	DUST CAP	
OPTION:	M83723/60-122AC	DUST CAP	
2	MS24264R22	CONNECTOR	
OPTION:	M83723/83R2219N	CONNECTOR	

A27063-18 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27295-1	DUST CAP	
OPTION:	M83723/60-210AC	DUST CAP	
6	MS24264R10B5PN	CONNECTOR	
OPTION:	M83723/72R105N	CONNECTOR	

A27063-19 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27293-1	DUST CAP	
OPTION:	M83723/59-210AC	DUST CAP	
6	MS24266R10B5SN	CONNECTOR	
OPTION:	M83723/72R10SN	CONNECTOR	

A27063-20 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	

A27063-20 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27293-2	DUST CAP	
OPTION:	M83723/59-212AC	DUST CAP	
6	MS24266R12B12PN	CONNECTOR	
OPTION:	M83723/76R1212N	CONNECTOR	

A27063-21 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27295-2	DUST CAP	
OPTION:	M83723/60-212AC	DUST CAP	
6	MS24264R12B12SN	CONNECTOR	
OPTION:	M83723/71R1212N	CONNECTOR	

A27063-22 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27293-2	DUST CAP	
OPTION:	M83723/59-212AC	DUST CAP	
6	MS24266R12B12P6	CONNECTOR	
OPTION:	M83723/76R12126	CONNECTOR	

A27063-23 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27295-2	DUST CAP	
OPTION:	M83723/60-212AC	DUST CAP	
6	MS24264R12B12S6	CONNECTOR	
OPTION:	M83723/71R12126	CONNECTOR	

A27063-26 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27292-3	DUST CAP	
OPTION:	M83723/59-114AC	DUST CAP	
6	MS24266R14T7PN	CONNECTOR	
OPTION:	M83723/87R147N	CONNECTOR	

A27063-27 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27294-3	DUST CAP	
OPTION:	M83723/60-114AC	DUST CAP	
6	MS24264R14T7SN	CONNECTOR	
OPTION:	M83723/82R147N	CONNECTOR	

A27063-28 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27294-3	DUST CAP	
OPTION:	M83723/60-114AC	DUST CAP	
6	MS24264R14T7PN	CONNECTOR	
OPTION:	M83723/83R147N	CONNECTOR	

A27063-29 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27292-3	DUST CAP	
OPTION:	M83723/59-114AC	DUST CAP	
6	MS24264R14T7SN	CONNECTOR	
OPTION:	M83723/86R147N	CONNECTOR	

A27063-30 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	S27294-3	DUST CAP	
OPTION:	M83723/60-114AC	DUST CAP	
6	MS24264R14T7P6	CONNECTOR	
OPTION:	M83723/83R1476	CONNECTOR	

A27063-31 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27292-3	DUST CAP	
OPTION:	M83723/59-114AC	DUST CAP	
6	MS24266R14T7S6	CONNECTOR	
OPTION:	M83723/86R1476	CONNECTOR	

A27063-32 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27293-3	DUST CAP	
OPTION:	M83723/59-214AC	DUST CAP	
6	MS24266R14B15PN	CONNECTOR	
OPTION:	M83723/76R1415N	CONNECTOR	

A27063-33 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27295-3	DUST CAP	
OPTION:	M83723/60-214AC	DUST CAP	
6	MS24266R14B15SN	CONNECTOR	
OPTION:	M83723/71R1415N	CONNECTOR	

A27063-38 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27294-4	DUST CAP	
OPTION:	M83723/60-116AC	DUST CAP	
6	MS24264R16T10PN	CONNECTOR	
OPTION:	M83723/83R1610N	CONNECTOR	

A27063-39 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27292-4	DUST CAP	
OPTION:	M83723/59-116AC	DUST CAP	
6	MS24264R16T10SN	CONNECTOR	
OPTION:	M83723/83R16T10SN	CONNECTOR	

A27063-40 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27294-6	DUST CAP	
OPTION:	M83723/60-122AC	DUST CAP	
6	MS24264R22T19PN	CONNECTOR	
OPTION:	M83723/83R2219N	CONNECTOR	

A27063-41 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
6	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	

A27063-76 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27293-1	DUST CAP	
OPTION:	M83723/59-210AC	DUST CAP	
6	MS24266R10B195P	CONNECTOR	
OPTION:	M83723/76R105N	CONNECTOR	

A27063-77 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27295-1	DUST CAP	
OPTION:	M83723/60-210AC	DUST CAP	
6	MS24266R10B5S	CONNECTOR	
OPTION:	M83723/71R105N	CONNECTOR	

A27063-84 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27293-1	DUST CAP	
OPTION:	M83723/59-210AC	DUST CAP	
6	MS24266R10B5P7	CONNECTOR	
OPTION:	M83723/76R1057	CONNECTOR	

A27063-94 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27293-2	DUST CAP	
OPTION:	M83723/59-212AC	DUST CAP	
6	MS24266R12B12PN	CONNECTOR	
OPTION:	M83723/76R1212N	CONNECTOR	

A27063-95 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27295-2	DUST CAP	
OPTION:	M83723/60-212AC	DUST CAP	
6	MS24266R12B12SN	CONNECTOR	
OPTION:	M83723/71R1212N	CONNECTOR	

A27063-96 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27293-2	DUST CAP	
OPTION:	M83723/59-212AC	DUST CAP	
6	MS24264R12B12P6	CONNECTOR	
OPTION:	M83723/76R12126	CONNECTOR	

A27063-97 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	MS27292-6	DUST CAP	
OPTION:	M83723/59-122AC	DUST CAP	
4	MS24266R22T19SN	CONNECTOR	
OPTION:	M83723/86R2219N	CONNECTOR	
5	MS27295-2	DUST CAP	
OPTION:	M83723/60-212AC	DUST CAP	
6	MS24266R12B12S6	CONNECTOR	
OPTION:	M83723/71R12126	CONNECTOR	

PART NUMBER: B20002-1

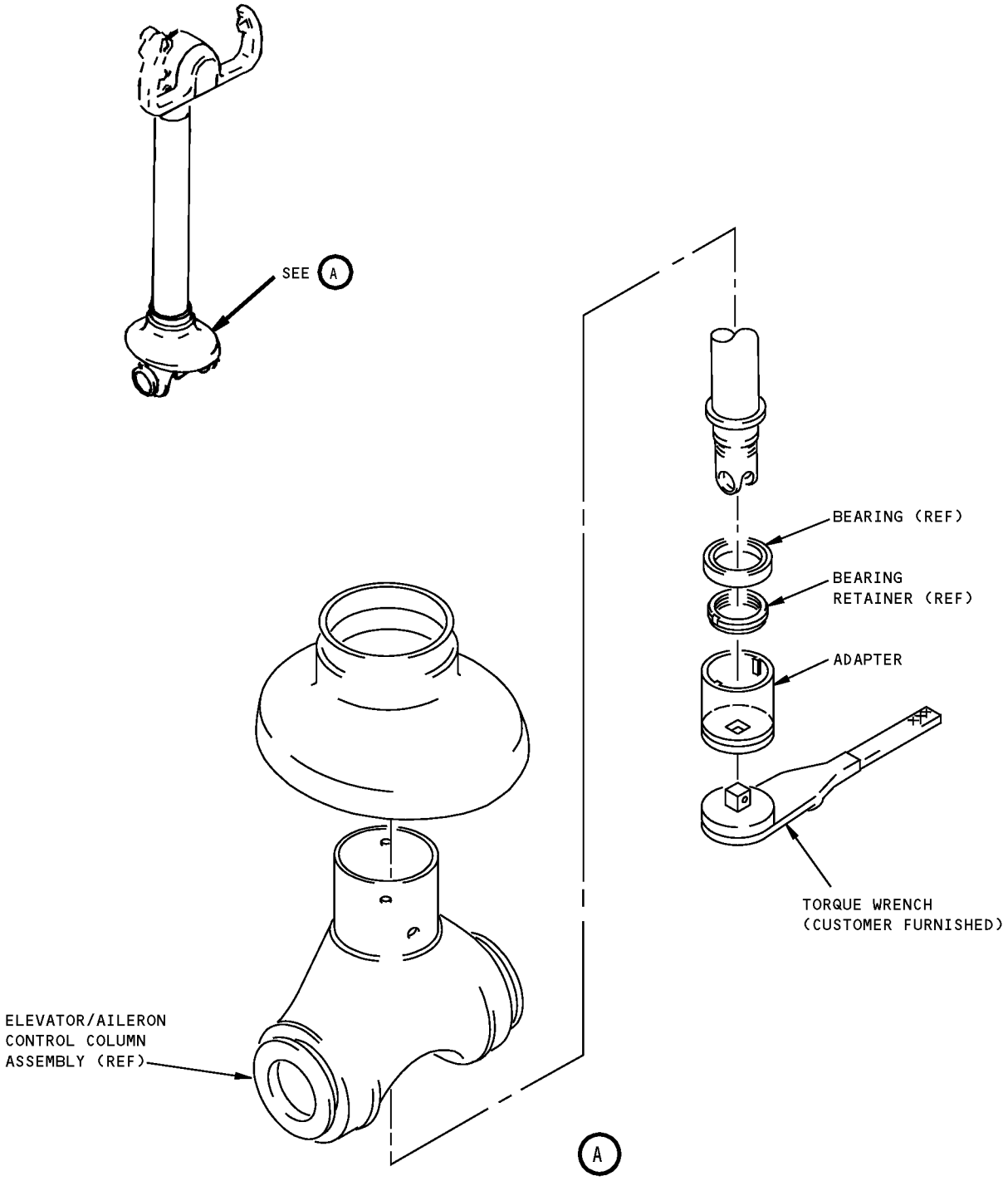
NAME: TORQUE ADAPTER - SOCKET TYPE

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used for installation/removal of the SL2778-1 bearing retainer, aileron and elevator control. Refer to CMM 27-09-21 for complete usage instructions.

DIMENSIONS: 2.0 diameter x 3 inches (51 mm diameter x 76 mm)



Socket Type Torque Adapter
Figure 1

PART NUMBER: A27081-1

NAME: READOUT AND CONTROL EQUIPMENT - FUNCTIONAL TEST STAND

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

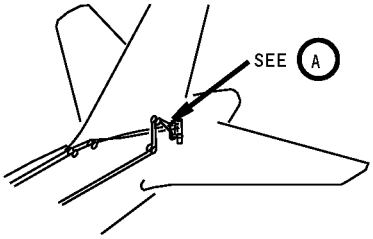
USAGE & DESCRIPTION: The A27081-1 readout and control equipment is used during component maintenance on all 757 airplanes. The A27081 is used during testing of the 251N2241 elevator feel and centering unit. The A27081 readout and control equipment is used in conjunction with A27041 test equipment (a test stand), an X-Y recorder (Allen Datagraph Model 925E or equivalent), torque and angular measurement transducers, a hydraulic test stand capable of delivering constant pressure of 190-210 psi and 2050-2150 psi, an AC power supply (25.75-26.25 VAC, 380-420 Hz, single phase), and a phase angle voltmeter (accuracy 0.05%). The A27081 readout and control equipment is also used on 737 and 767 airplane components and includes the A27091-8 and -10 cable assemblies that are not required for use on the 757 application. The A27081 drawing includes calibration and certification procedures. Refer to CMM 27-31-10 and the current A27081 drawing for complete instructions.

A27081-1 consists of:

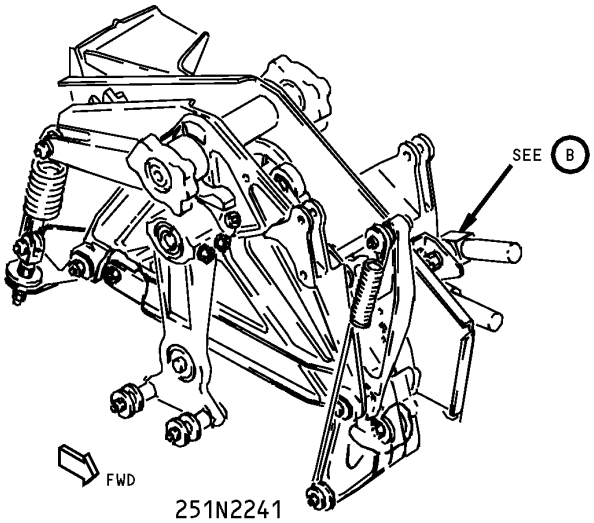
QUANTITY	NOMENCLATURE	PART NUMBER
1	TEST BOX ASSEMBLY	A27081-3
1	CABLE ASSEMBLY	A27081-7
1	CABLE ASSEMBLY	A27081-8
1	CABLE ASSEMBLY	A27081-9
1	CABLE ASSEMBLY	A27081-10
1	STORAGE BOX	

WEIGHT: 10 lbs

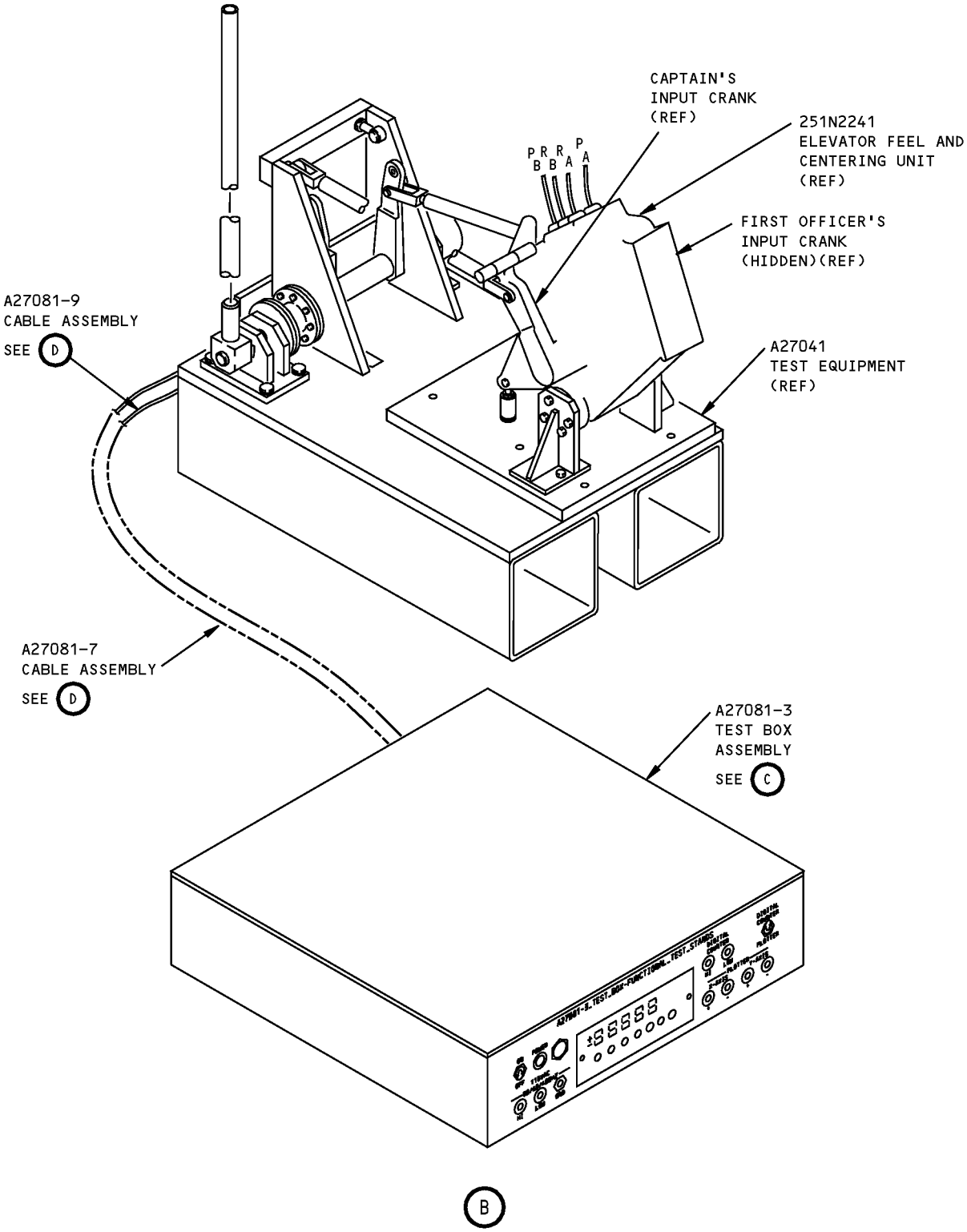
DIMENSIONS: 15 x 15 x 5 inches



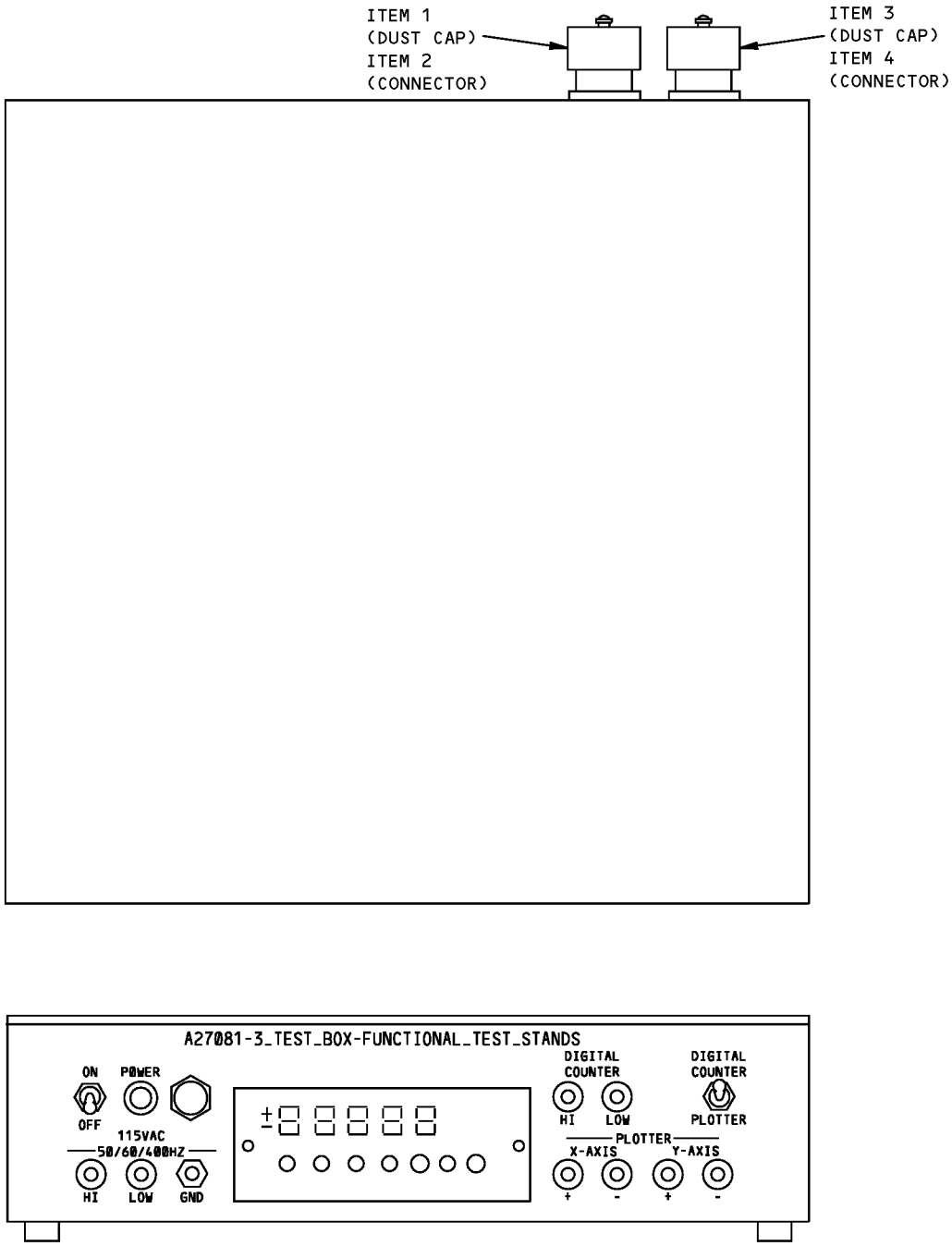
Elevator Control Feel and Centering Assembly
Figure 1 (Sheet 1 of 2)



Elevator Control Feel and Centering Assembly
Figure 1 (Sheet 2 of 2)



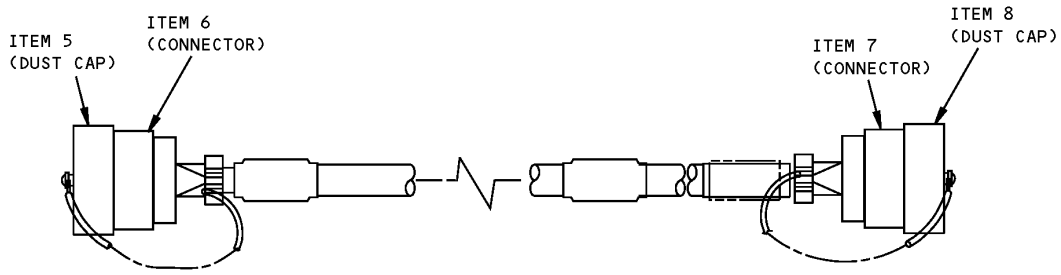
Functional Test Stand Readout and Control Equipment
Figure 2 (Sheet 1 of 3)



A27081-3
TEST BOX ASSEMBLY

C

Functional Test Stand Readout and Control Equipment
Figure 2 (Sheet 2 of 3)



Functional Test Stand Readout and Control Equipment
Figure 2 (Sheet 3 of 3)

A27081-3 BREAKOUT BOX ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	M83723/60-112AC	DUST CAP	
2	M83723/83R1212N	CONNECTOR	
3	M83723/60-110AC	DUST CAP	
4	M83723/83R105N	CONNECTOR	

A27081-7 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
5	M83723/59-110AC	DUST CAP	
6	M83723/86R105N	CONNECTOR	
7	MS3106A-14S-5S	DUST CAP	
8	MS25042-14D	CONNECTOR	

A27081-8 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
5	M83723/59-110AC	DUST CAP	
6	M83723/86R105N	CONNECTOR	
7	MS3106A-10SL-4S	DUST CAP	
8	MS25042-10D	CONNECTOR	

A27081-9 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
5	M83723/59-112AC	DUST CAP	
6	M83723/86R1212N	CONNECTOR	
7	MS3106A-14S-5S	DUST CAP	
8	MS25042-14D	CONNECTOR	

A27081-10 CABLE ASSEMBLY			
REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
5	M83723/59-112AC	DUST CAP	
6	M83723/86R1212N	CONNECTOR	
7	MS3106A-14S-6S	DUST CAP	
8	MS25042-14D	CONNECTOR	

PART NUMBER: B27065-1, -2, -9, -12

NAME: LOCK SET - CIRCUIT BREAKER

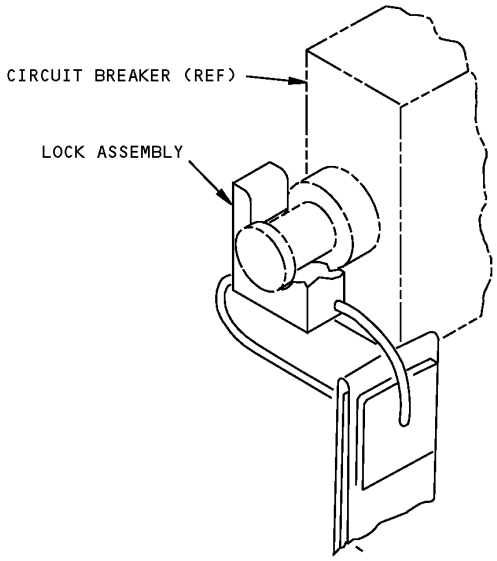
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27065-1,-2,-9,-12 lock sets contain lock assemblies used to lock circuit breakers in the open position during maintenance procedures. Contents and application of the lock sets are shown be low.

B27065 LOCK SET	CONTENTS	APPLICATION
-1	(1) B27065-3 LOCK ASSEMBLY	233N5206 - PANEL ASSEMBLY - CIRCUIT BREAKER, P11-2
-2	(4) B27065-3 LOCK ASSEMBLIES	P11 PANEL, CABIN PRESSURE CIRCUIT BREAKERS. AUTO - LEFT, AUTO - RIGHT, MANUAL AND SELECTOR
-9	(3) B27065-3 LOCK ASSEMBLIES	P11-2, C4061 - RAT CONTROL P11-2, C4216 - RAT AUTO P6, C4062 - RAT MANUAL
-12	(1) B27065-13 LOCK ASSEMBLY	233N5206 - PANEL ASSEMBLY - CIRCUIT BREAKER, P11-2 P11 PANEL, CABIN PRESSURE CIRCUIT BREAKERS. AUTO-LEFT, AUTO-RIGHT, MANUAL AND SELECTOR P11-2, C4061 - RAT CONTROL P11-2, C4216 - RAT AUTO P6, C4062 - RAT MANUAL

NOTE: B27065-12 replaces B27065-1, -2 and -9 for future procurement.
B27065-2 supersedes A27010-19.
B27065-9 supersedes B27020-11.



Circuit Breaker Lock Set
Figure 1

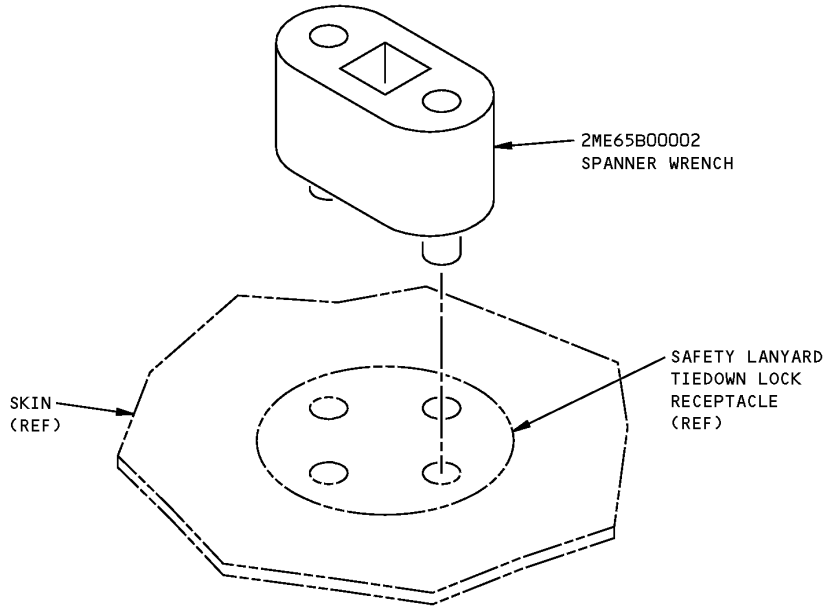
PART NUMBER: 2ME65B00002

NAME: WRENCH - SPANNER, SAFETY LANYARD, TIE DOWN LOCKS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The 2ME65B00002 spanner wrench is used on all 757 model airplanes. This tool is used to adjust safety lanyard tie down lock receptacles to be flush with the skin on wing and stabilizer. The tool is a steel spanner wrench approximately 1 inch by 1/2 inch. It has a 1/4 square drive and two pins which engage wrench holes in the tie down receptacle.



Safety Lanyard Tie down Lock Spanner Wrench
Figure 1

PART NUMBER: B27079-19

NAME: TEST BOX - POWER SUPPLY, CONTROL SYSTEM ELECTRONICS UNIT (CSEU)

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

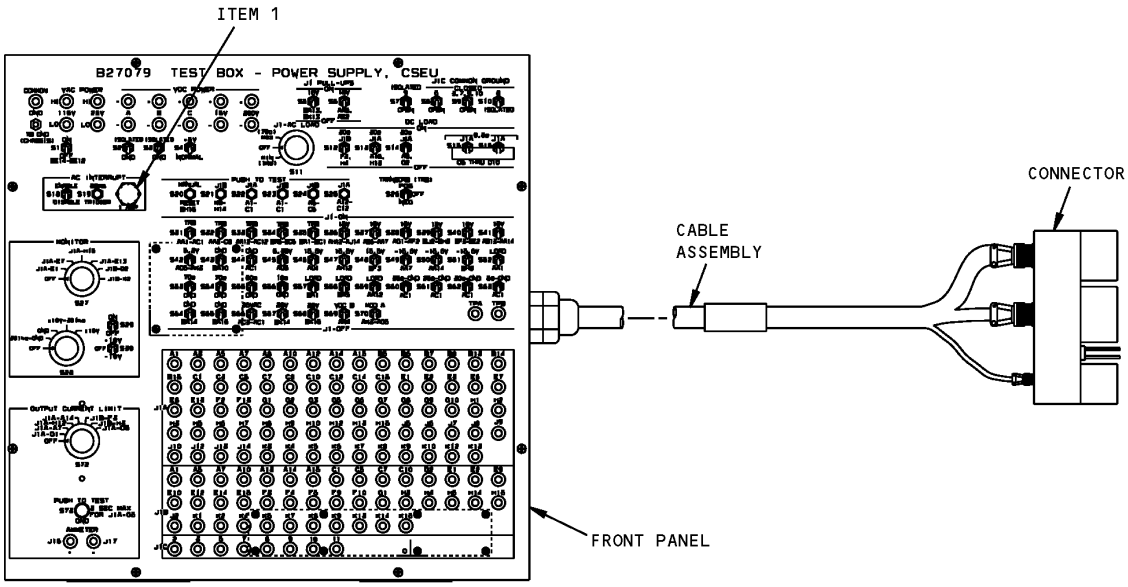
USAGE & DESCRIPTION: The B27079 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The B27079 inclusion in the 757 ITEM is for information and historical purposes only.

The B27079-19 test box has a limited effectivity on 757 airplanes equipped with a 285T0017-201/-201 MOD A CSEU power supply. B27079 is used to bench test the 285T0017-201 and -201 MOD a CSEU power supply assemblies. Refer to CMM 27-09-58 for complete usage instructions. B27079-19 consists of connectors, switches, resistors, banana jacks and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 10 lb (4.5 kg)

DIMENSIONS: 5 x 18 x 22 inches (127 x 457 x 559 mm)

NOTE: B27079-19 supersedes B27079-1.



CSEU Power Supply Test Box
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	312001	FUSE	V7E222

PART NUMBER: B27010-5

NAME: LOCK - AILERON ACTUATOR

AIRPLANE MAINTENANCE: YES

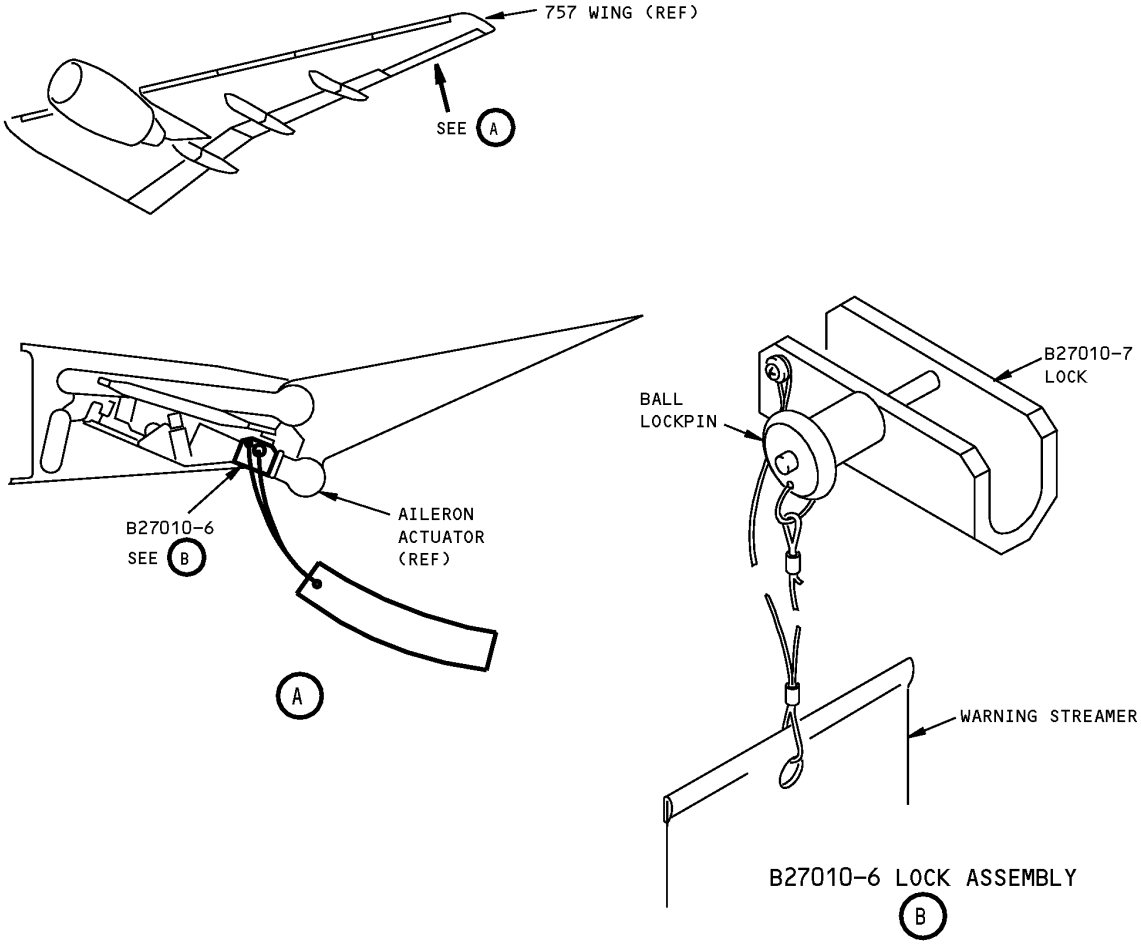
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is a clamp and ball lockpin assembly that is used to secure the aileron actuator in the extended position during maintenance procedures. The tool prevents accidental aileron actuation. Refer to AMM 27-11-20 for complete instructions.

WEIGHT: 2 lbs (1 kg)

DIMENSIONS: 4 x 9 x 12 inches (102 x 229 x 305 mm)

NOTE: B27010-5 supersedes -1.



Aileron Actuator Lock
Figure 1

PART NUMBER: B27012-1

NAME: REMOVE/INSTALL SLING EQUIPMENT - AILERON

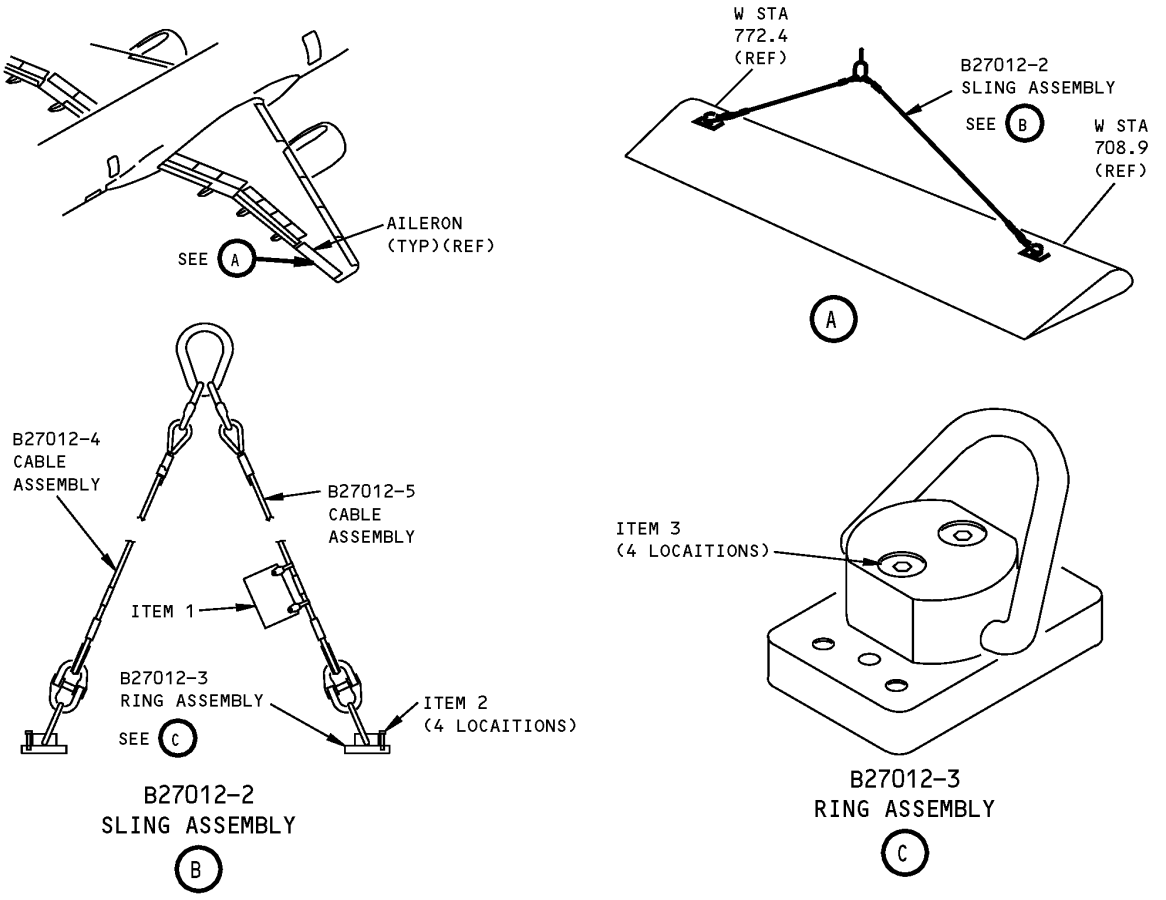
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used with overhead lifting equipment to remove/install ailerons during maintenance operations. The tool fastens onto the aileron. Refer to AMM 27-11-21 for complete usage instructions.

WEIGHT: 10 lbs (4.5 kg)

DIMENSIONS: 4 x 10 x 12 inches (102 x 254 x 305 mm)



Aileron Removal/Installation Sling Equipment
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	F70308-2	PROOF LOAD TAG	
2	MS16996-26	CAP SCREW	
3	MS16996-31	CAP SCREW	

PART NUMBER: A27021-29, -69, -97, -98

NAME: ADAPTER EQUIPMENT - CONTROL WHEEL

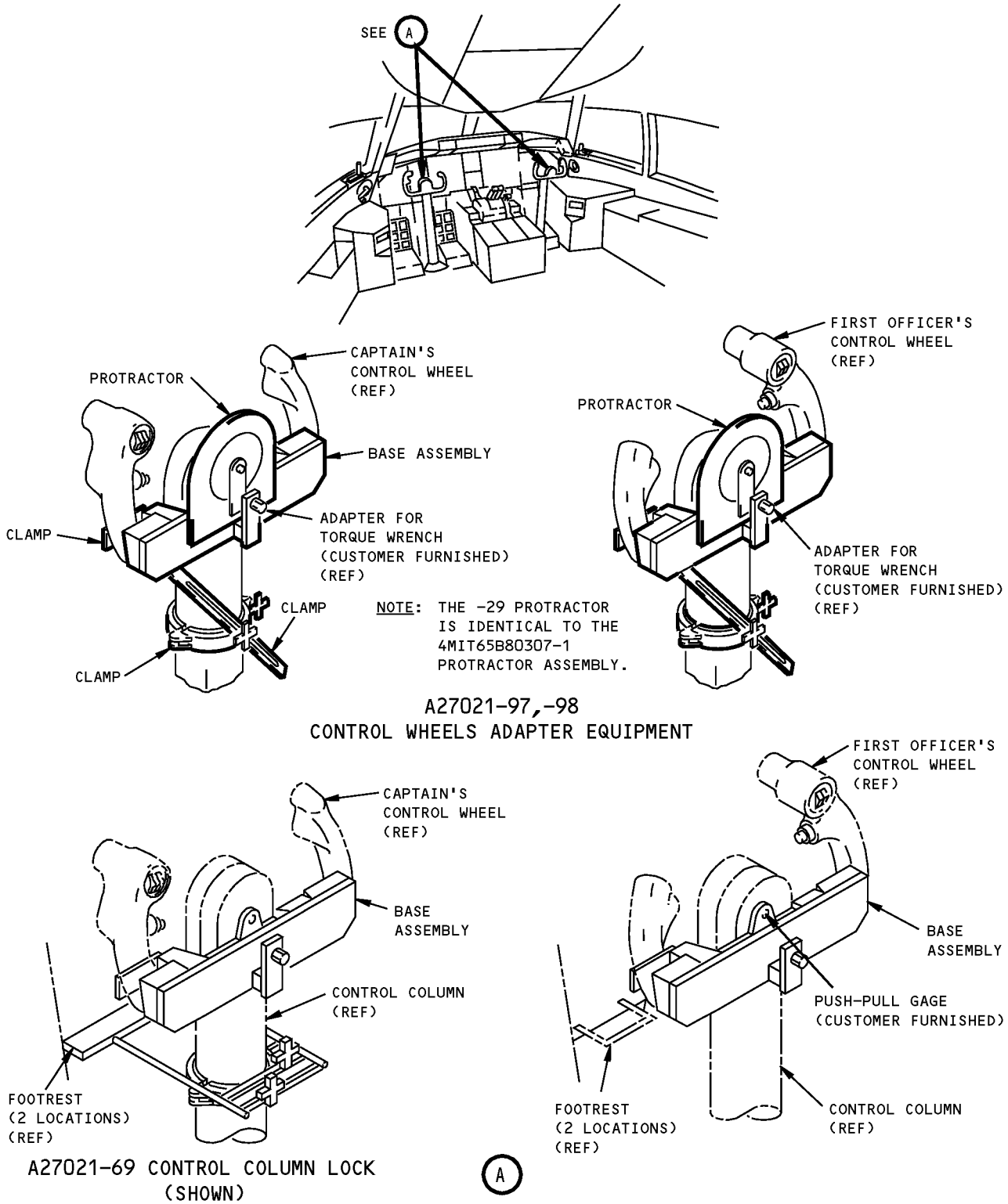
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The adapter equipment is used to lock the control wheel in any attitude, and provide a means of attaching a protractor and torque wrench. The base assemblies attach to the pilot and copilot control wheels and are used as adapters for equipment to check the force and angular movement of the wheels and control columns. The A27021-69 control column lock is used in conjunction with the A27021-81, -99 and CL-2-HK-2 and holds either the pilot or copilot columns alternately during overide assembly travel functional test (Ref MM 27-31). The A27021-29 protractor kit is used for the A27021-97, -98 adapter equipment for the 757 airplane. The protractor kit may also be used to measure brake pedal travel. The A27021-98 is applicable on both 757/767 airplanes.

DIMENSIONS:
A27021-98 - 8 x 14 x 20 inches (203 x 356 x 508 mm)
A27021-97 - 8 x 14 x 20 inches (203 x 356 x 508 mm)
A27021-69 - 1 x 13 x 20 inches (25 x 330 x 508 mm)
A27021-29 - 4 x 8 x 8 inches (102 x 203 x 203 mm)

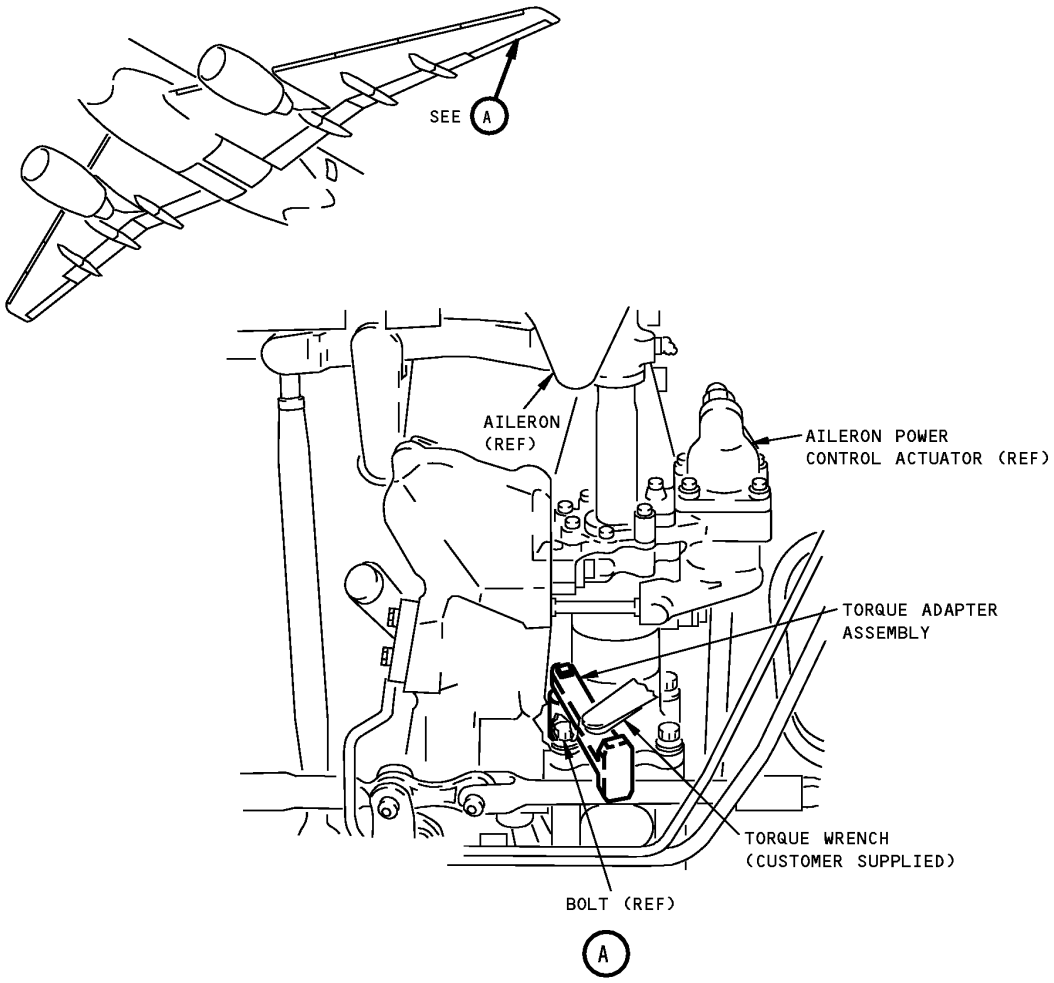
NOTE:
A27021-98 supersedes A27021-83, -64, -55
A27021-97 supersedes A27021-82, -63, -43



Control Wheel Adapter Equipment
Figure 1

PART NUMBER: B27033-1

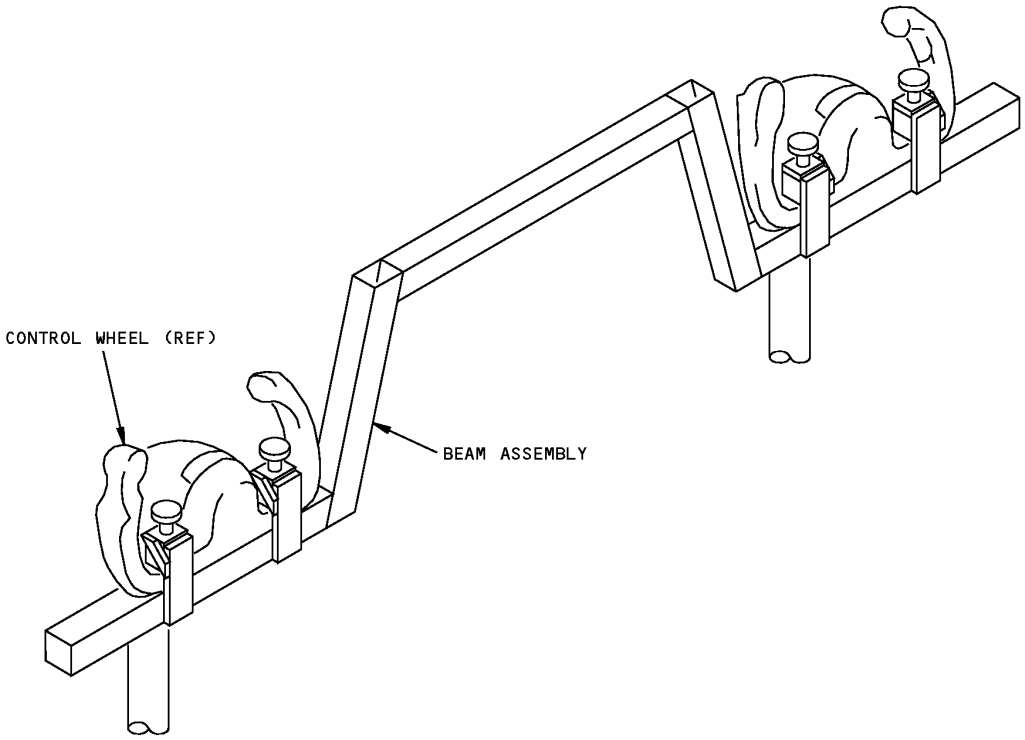
NAME:	TORQUE ADAPTER - AILERON POWER CONTROL UNIT INSTALLATION
AIRPLANE MAINTENANCE:	YES
COMPONENT MAINTENANCE:	NO
USAGE & DESCRIPTION:	This tool is used to provide accurate torque capability to a limited access area.
WEIGHT:	0.5 lb (0.2 kg)
DIMENSIONS:	1 x 2.5 x 4.5 inches (25 x 63 x 114 mm)



Aileron Power Control Unit Installation Torque Adapter
Figure 1

PART NUMBER: B27049-1

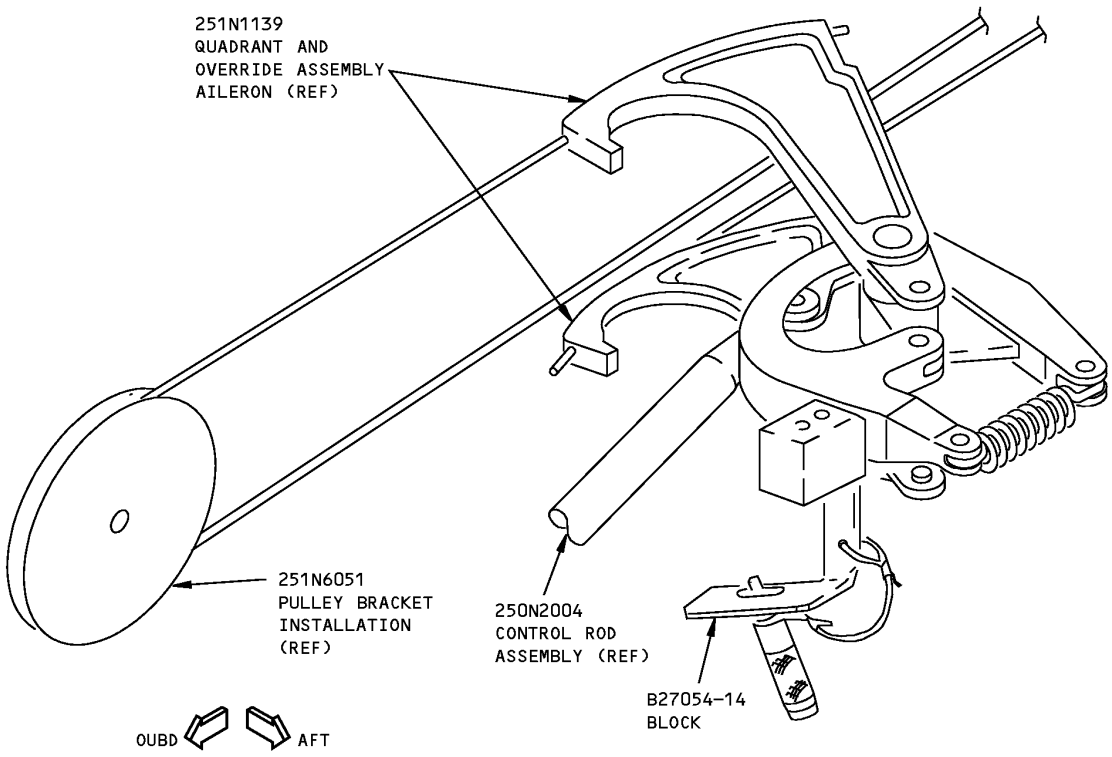
NAME:	RIGGING BEAM - CONTROL WHEELS
AIRPLANE MAINTENANCE:	YES
COMPONENT MAINTENANCE:	YES
USAGE & DESCRIPTION:	This beam assembly holds the aileron control wheels in neutral position during rigging operations. Refer to AMM 27-11 for complete usage instructions.
WEIGHT:	8 lbs (3.6 kg)
DIMENSIONS:	2 x 14 x 60 inches (51 x 356 x 1524 mm)



Control Wheels Rigging Beam
Figure 1

PART NUMBER: B27054-14

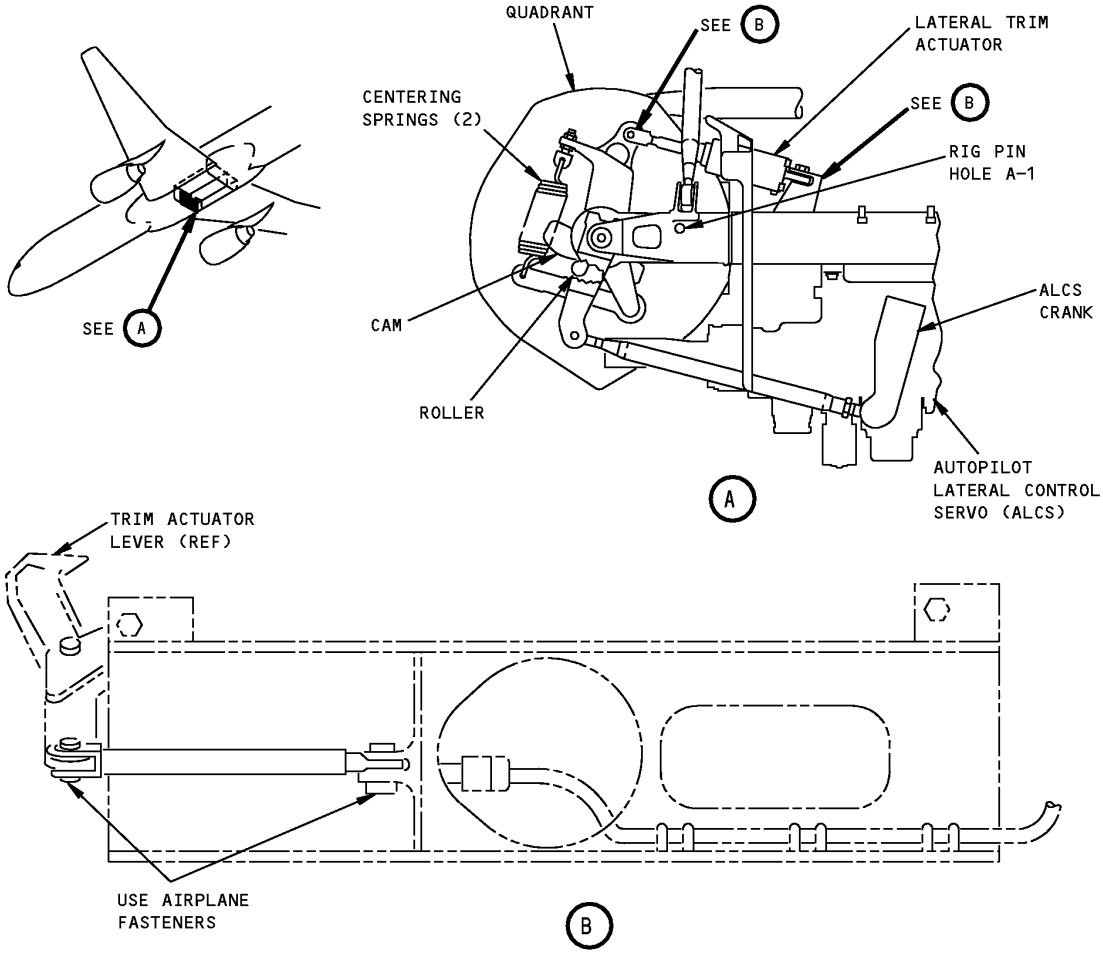
NAME:	BLOCK - AILERON PCU LEAK TEST
AIRPLANE MAINTENANCE:	YES
COMPONENT MAINTENANCE:	NO
USAGE & DESCRIPTION:	This tool is used to block aileron linkage of a rigged pilots' control wheel in the neutral position as determined by pilots' control wheel position gage. Refer to AMM 29-11-00 for complete usage information.
WEIGHT:	1 lb (0.45 kg)
DIMENSIONS:	4 x 7 x 10 inches (102 x 178 x 254 mm)
NOTE:	B27054-14 supersedes B27054-6. B27054-6 supersedes B27054-1.



Aileron PCU Leak Test Block
Figure 1

PART NUMBER: A27088-6, -13

NAME:	LINK - DUMMY TRIM ACTUATOR, AILERON
AIRPLANE MAINTENANCE:	YES
COMPONENT MAINTENANCE:	NO
USAGE & DESCRIPTION:	This tool is used for dispatching of an airplane with an inoperative aileron trim system covered in document D630N002 "Dispatch Deviations Guide".
WEIGHT:	1 lb (0.45 kg)
DIMENSIONS:	2 x 2 x 10 inches (51 x 51 x 254 mm)
NOTE:	A27088-13 replaces -6 for future procurement. A27088-6 supersedes A27088-1



Aileron Dummy Trim Actuator Link
Figure 1

PART NUMBER: 4MIT65B80307-1

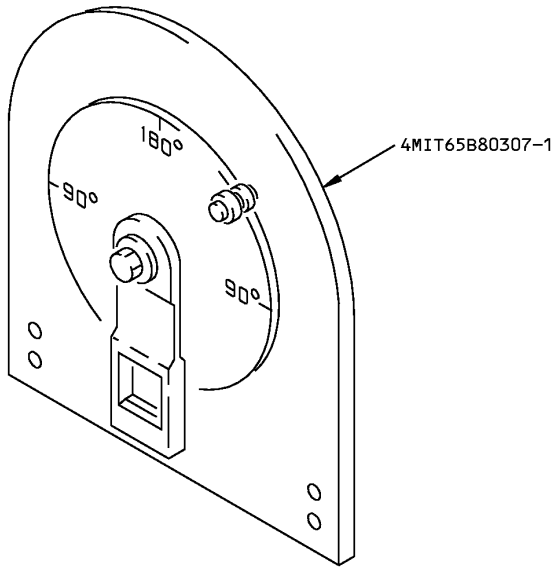
NAME: PROTRACTOR ASSEMBLY - CONTROL COLUMN

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to measure angular movement of various components of the control system. The protractor can be read accurately to within 1/2 degree. This tool is similar to the A27021-29 protractor kit and can be used with A27021 adapter equipment.

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



Control Column Protractor Assembly
Figure 1

PART NUMBER: F80212-19

NAME: CHECK ADAPTER - RUDDER PEDAL FORCE

AIRPLANE MAINTENANCE: YES

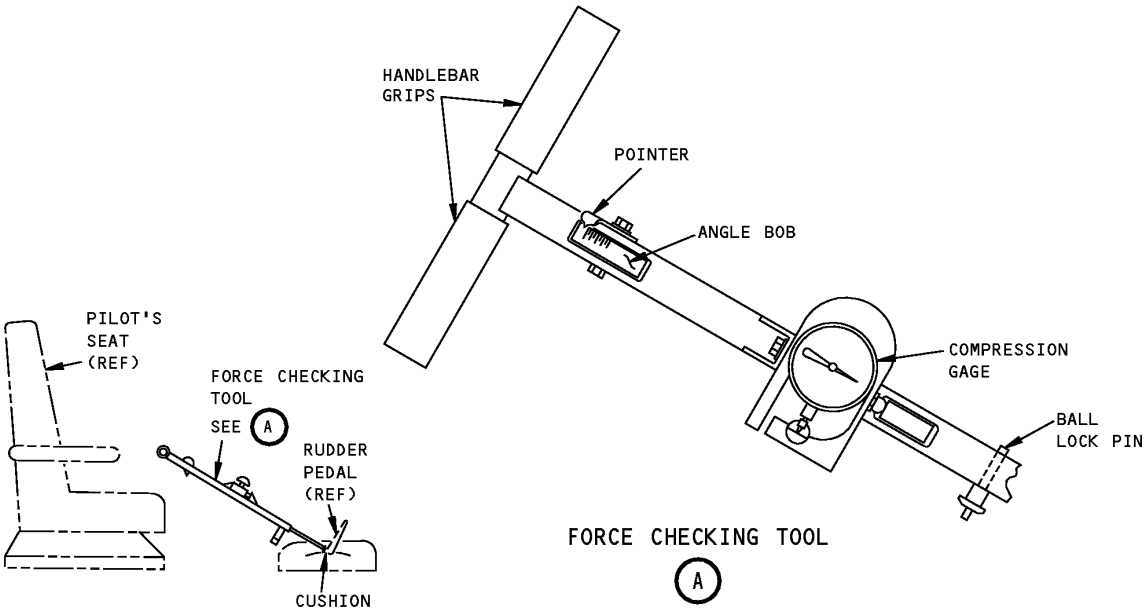
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to check the force required to move the rudder pedals. Refer to AMM 27-21-00 for further usage instructions. The -19 consists of a -20 gauge assembly and a box assembly. The -19 rudder pedal gauge assembly is a pogo-stick type arrangement featuring a handle assembly and an extention assembly. The handle assembly is a tube equipped with a T-shaped handle, an angle measuring device, a compression gauge, and a foot brace. The extension assembly is a tubular shaft equipped with two plates, one cushioned to interface with the rudder pedal on one cushioned to interface with the rudder pedal on one end, and telescoping through the lower end of the handle assembly, to contact the compression gauge on the other. The ball lock pin on a lanyard is used to hold the two assemblies to each other when the tool is not in use.

WEIGHT: 8 lbs (3.6 kg)

DIMENSIONS: 8 x 10 x 30 inches (203 x 254 x 762 mm)

NOTE: F80212-19 supersedes F80212-1 and F80147.



Rudder Pedal Force Check Adapter
Figure 1

PART NUMBER: B27013-19, -20

NAME: LOCK EQUIPMENT - RUDDER POWER CONTROL UNIT

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: B27013-20 lock equipment is used on all 757 airplanes. B27013-19 lock equipment is used on 757 line numbers 1 through 1014. B27013-20 lock equipment consists of B27013-14 and B27013-21 lock assemblies. B27013-19 consists of B27013-14 and B27013-3 lock assemblies. B27013-3 and B27013-21 lock assemblies are similar in function and appearance. B27013-21 replaces B27013-3 due to a engineering change beginning line number 1015. The B27013-3 and B27013-21 lock assemblies prevent inadvertent operation of rudder controls. B27013-14 is used to support the rudder in the hard right position. To prevent structural damage from occurring when using the B27013 lock equipment, it is important to note that B27013-21 or B27013-3 is installed before B27013-14. B27013-14 is removed before B27013-21 or B27013-3. B27013 lock equipment is used with the A09003 nose gear towing lever lockpin. Refer to AMM 27-21-20 for complete usage information.

B27013 lock equipment consists of:

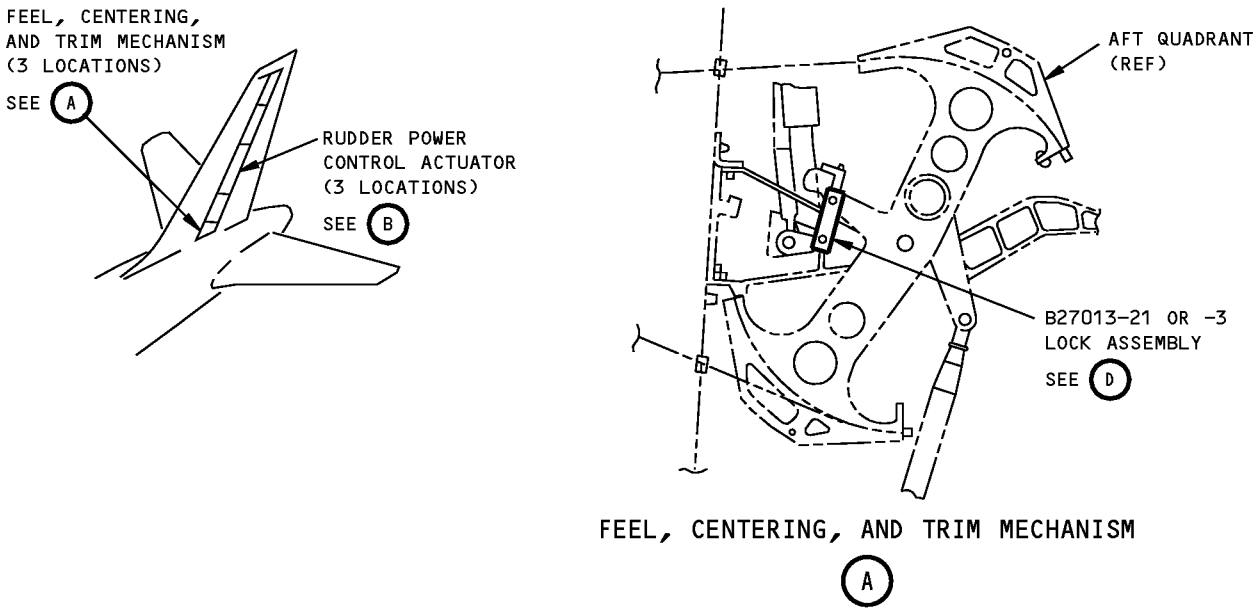
B27013-19		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	LOCK ASSEMBLY	B27013-3
1	LOCK ASSEMBLY	B27013-14
1	STORAGE BOX	

B27013-20		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	LOCK ASSEMBLY	B27013-21
1	LOCK ASSEMBLY	B27013-14
1	STORAGE BOX	

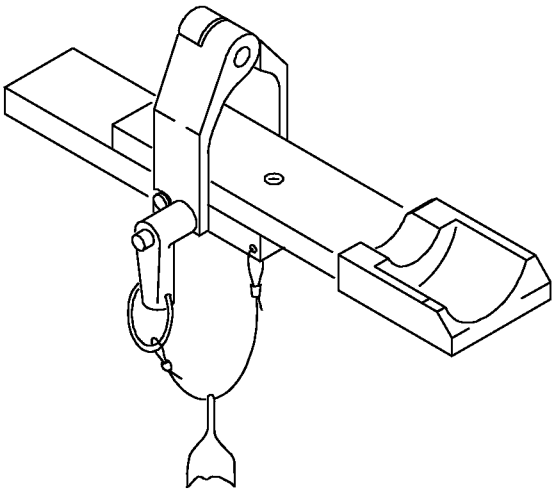
WEIGHT: 2 lbs (0.9 kg)

DIMENSIONS: 6 x 12 x 12 inches (152 x 305 x 305 mm)

NOTE: B27013-20 replaces B27013-19 for future procurement.
B27013-19 supersedes B27013-13.

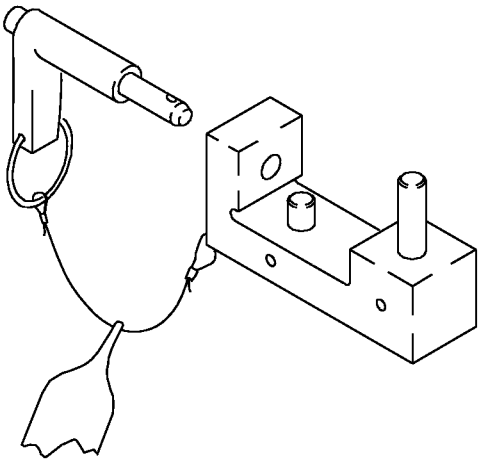


Rudder PCU Lock Equipment
Figure 1 (Sheet 1 of 2)



B27013-14
LOCK ASSEMBLY

C



B27013-3 LOCK ASSEMBLY SHOWN
B27013-21 SIMILAR

D

Rudder PCU Lock Equipment
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27005-35

NAME: SLING EQUIPMENT - RUDDER

AIRPLANE MAINTENANCE: YES

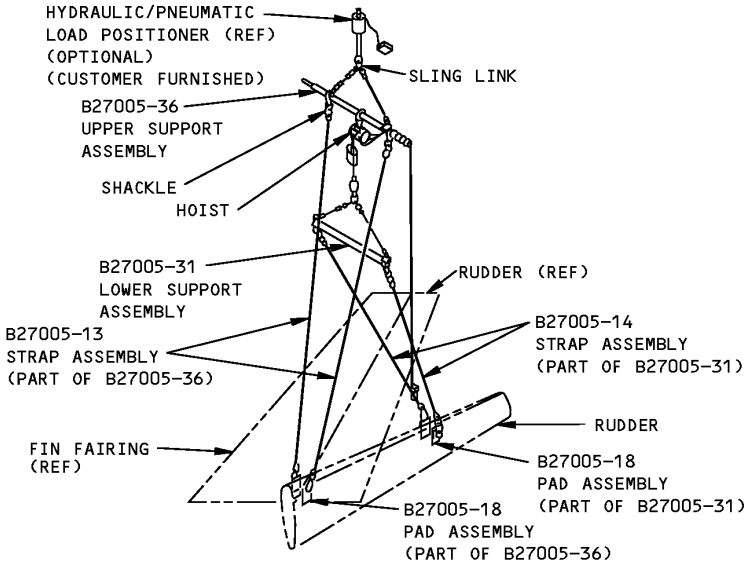
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool consists of two spreader bar assemblies, a hoist, shackles, straps and attaching pads. It is used during rudder removal/installation procedures.

WEIGHT: 190 lbs (86 kg)

DIMENSIONS: 24 x 36 x 110 inches (610 x 914 x 2794 mm)

NOTE: B27005 replaced by B27066
B27005-30 replaced by B27005-35
B27005-30 supersedes B27005-1



Rudder Sling
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	F70308-15	PROOF LOAD TAG	

PART NUMBER: B27029-1

NAME: LUG SPANNER - TORQUE ADAPTER, RUDDER JACKSHAFT

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

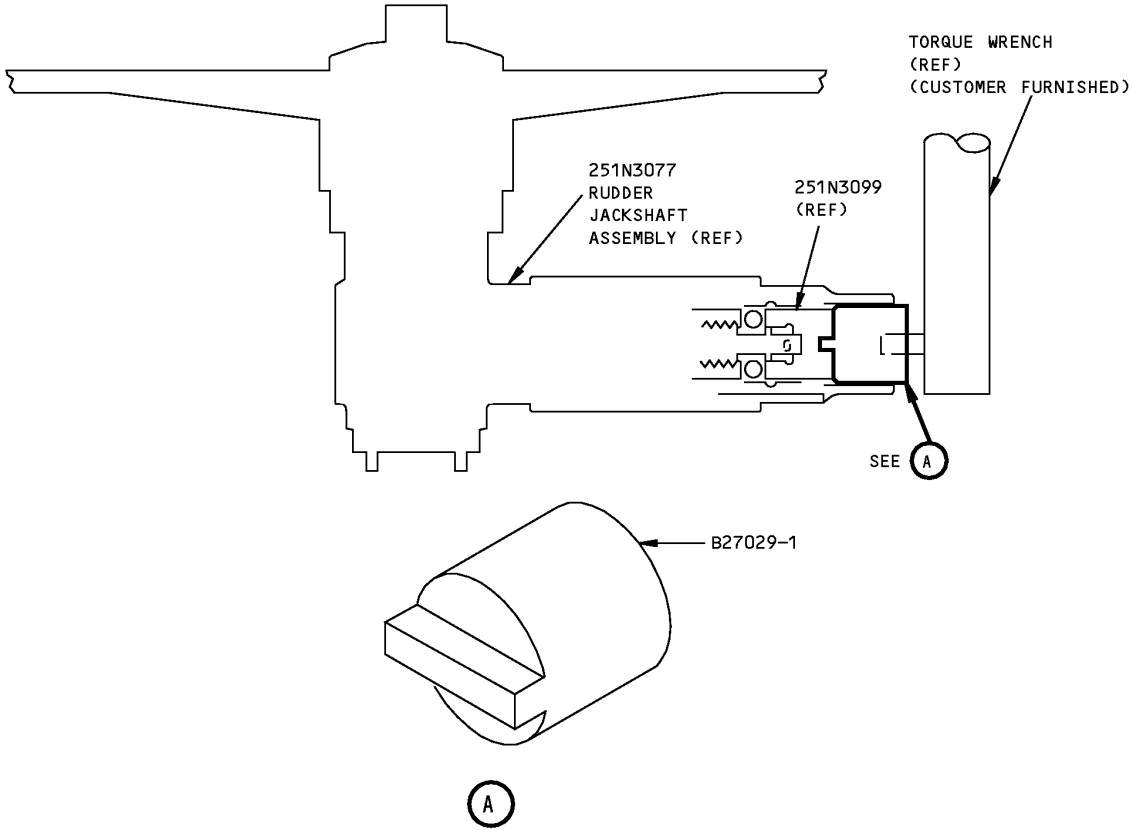
USAGE & DESCRIPTION: The B27029–1 Lug Spanner is used on all 757 model airplanes. This tool is a steel wrench adapter that is used with a custmer supplied 3/8-inch square drive torque wrench to torque the rudder jackshaft bearing retainer nut 251N3099. Refer to CMM 27-21-50 for complete usage information.

The B27029 consists of:

B27029–1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	LUG SPANNER	B27029–2
1	STORAGE BOX ASSEMBLY	F70313–1

WEIGHT: 0.2 lb (0.1 kg)

DIMENSIONS: 2 x 4 x 4 inches (51 x 102 x 102 mm)



Rudder Jackshaft Lug Spanner Torque Adapter
Figure 1

PART NUMBER: B27045-5, -12

NAME: HANDLE - OUTPUT ARM, RUDDER RATIO CHANGER

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27045 Handle - Output Arm is used on all 757 airplane models. This tool establishes center distance for shimming ratio changer clevis and rotate crank. Refer to AMM 27-21-12 for complete usage instructions. The B27045-12 tool simplifies tool usage.

The B27045 consists of:

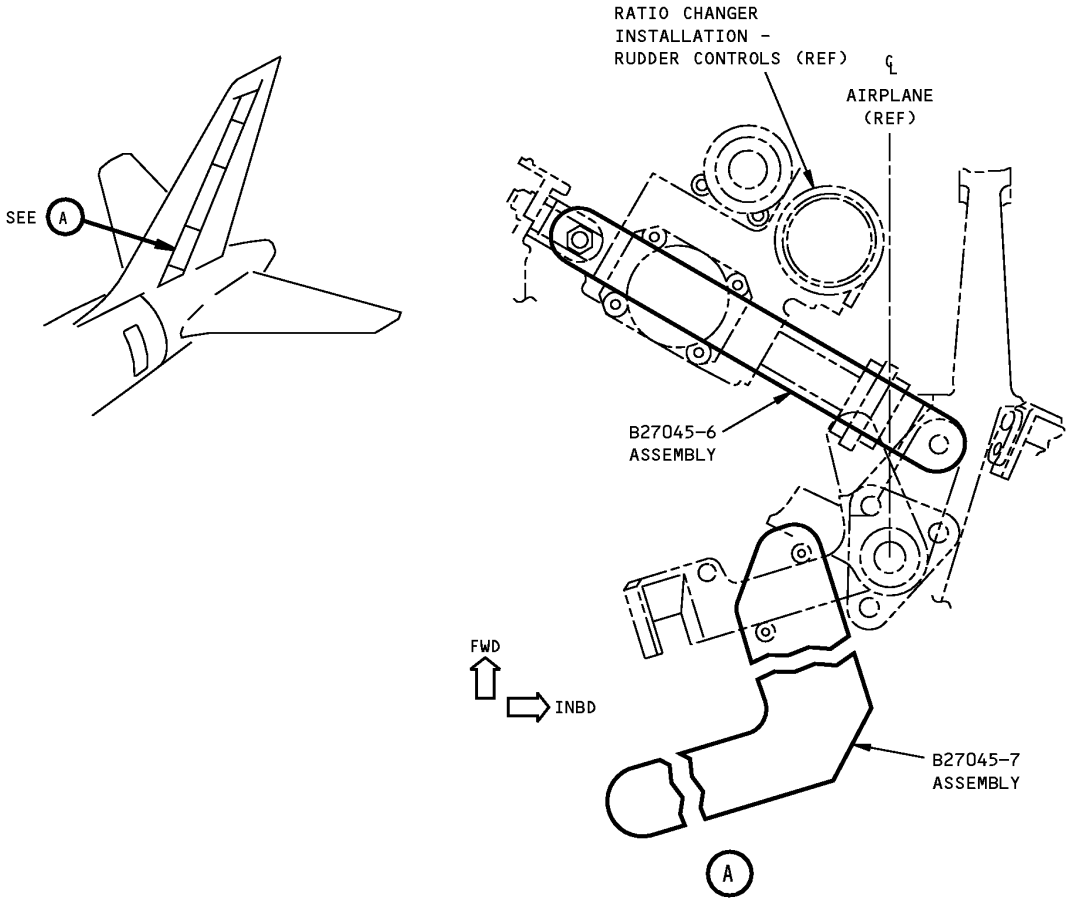
B27045-5		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	SHIM GAGE ASSEMBLY	B27045-6
1	HANDLE ASSEMBLY	B27045-7
1	STORAGE BOX ASSEMBLY	B27045-10

B27045-12		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	HANDLE ASSEMBLY	B27045-7
1	STORAGE BOX ASSEMBLY	B27045-13

WEIGHT: B27045-5 - 3 lbs (1.4 kg)
B27045-12 - 2 lbs (0.9 kg)

DIMENSIONS: B27045-5 - 2 x 10 x 10 inches (51 x 254 x 254 mm)
B27045-12 - 1 x 6 x 10 inches (25 x 152 x 254 mm)

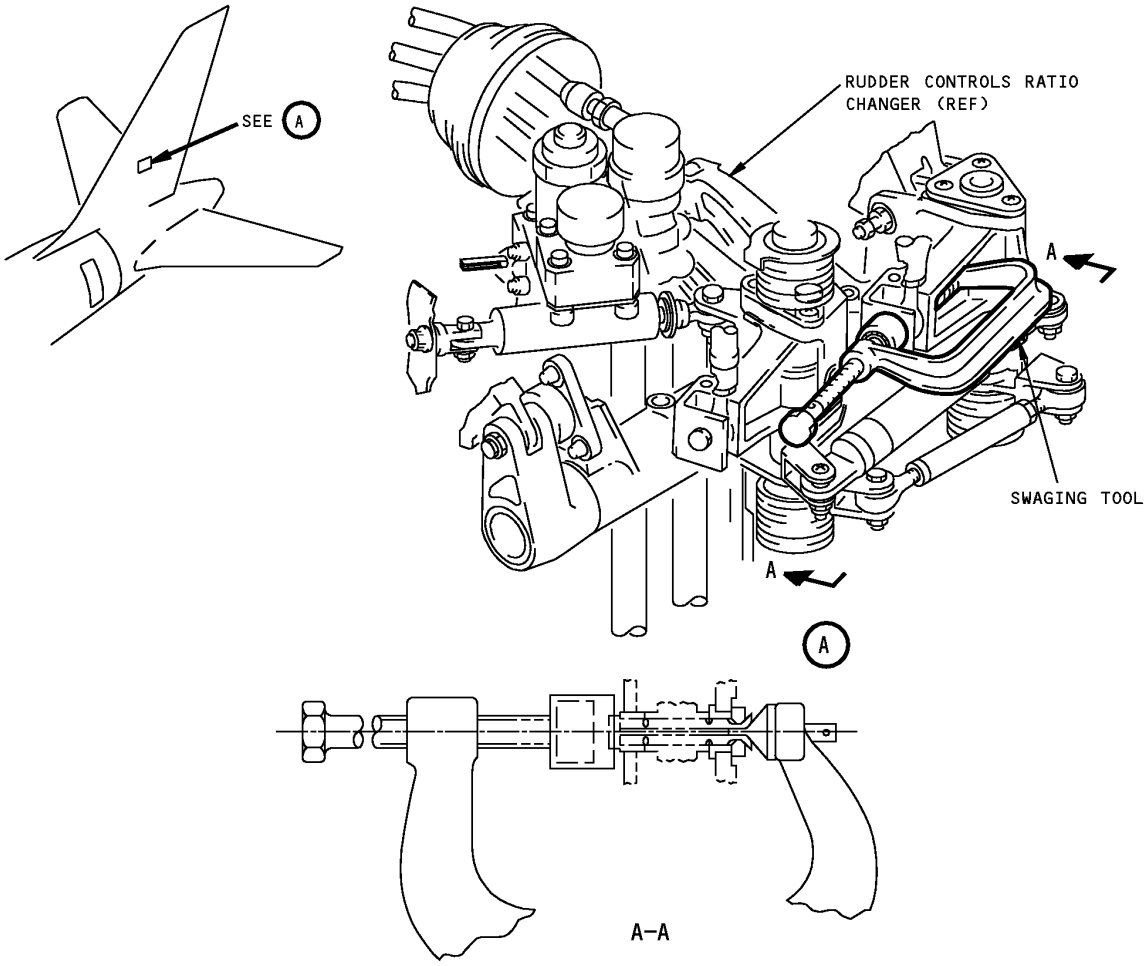
NOTE: B27045-12 replaces B27045-5 for future procurement
B27045-5 supersedes B27045-1



Output Arm, Rudder Ratio Changer Handle
Figure 1

PART NUMBER: B27046-6

NAME:	SWAGING TOOL - RUDDER CONTROLS RATIO CHANGER SHEAR PIN
AIRPLANE MAINTENANCE:	YES
COMPONENT MAINTENANCE:	NO
USAGE & DESCRIPTION:	Tool is used to swage rudder ratio changer shear pin while on the changer assembly. Refer to AMM 27-21-12 for complete usage instructions.
WEIGHT:	1 lb (0.45 kg)
DIMENSIONS:	3 x 6 x 8 inches (76 x 152 x 203 mm)
NOTE:	B27046-6 supersedes B27046-1



Rudder Controls Ratio Changer Shear Pin Swaging Tool
Figure 1

PART NUMBER: A27083-1

NAME: TEST BOX - ANALOG PRINTED CIRCUIT, RUDDER RATIO

AIRPLANE MAINTENANCE: NO

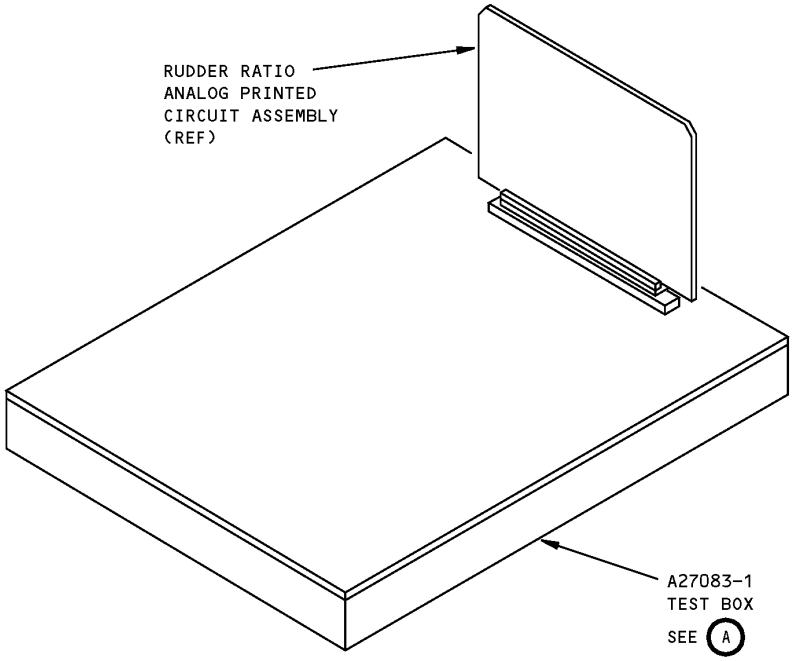
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27083 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A27083 inclusion in the 757 ITEM is for information and historical purposes only.

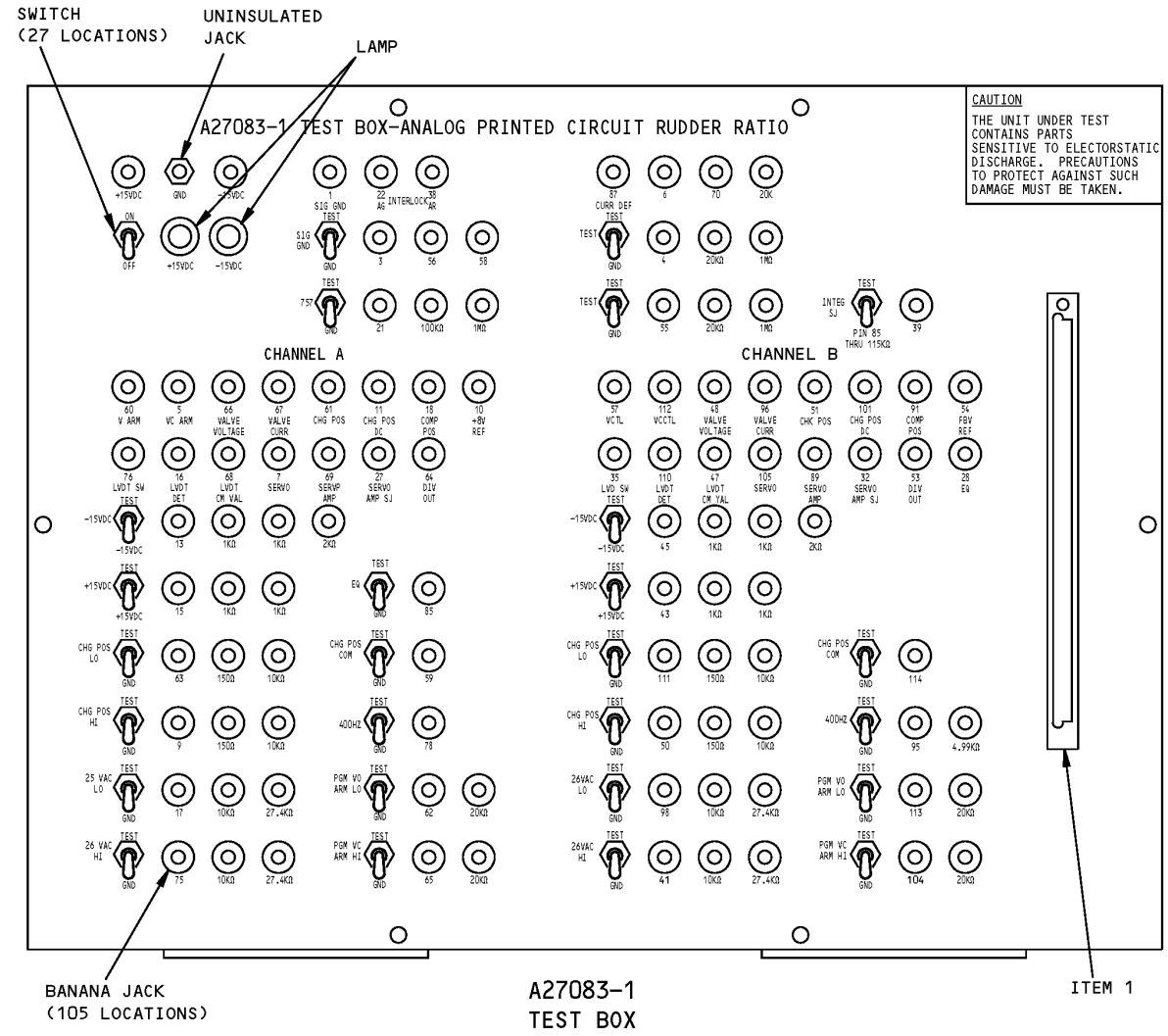
The A27083-1 test box is used during component maintenance on 757-200 airplanes prior to line number 1017. A27083 is used to test the rudder ratio analog printed circuit assembly (PCA). Reference equipment numbers are M528 and M529, 285T0014 rudder ratio changer modules (RRCM). Refer to CMM 27-21-34 for complete usage instructions. A27083-1 consists of switches, banana jacks, a connector and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 10 lbs (4.5 kg)

DIMENSIONS: 4 x 13 x 17 inches (102 x 330 x 432 mm)



Rudder Ratio Analog Printed Circuit Test Box
Figure 1 (Sheet 1 of 2)

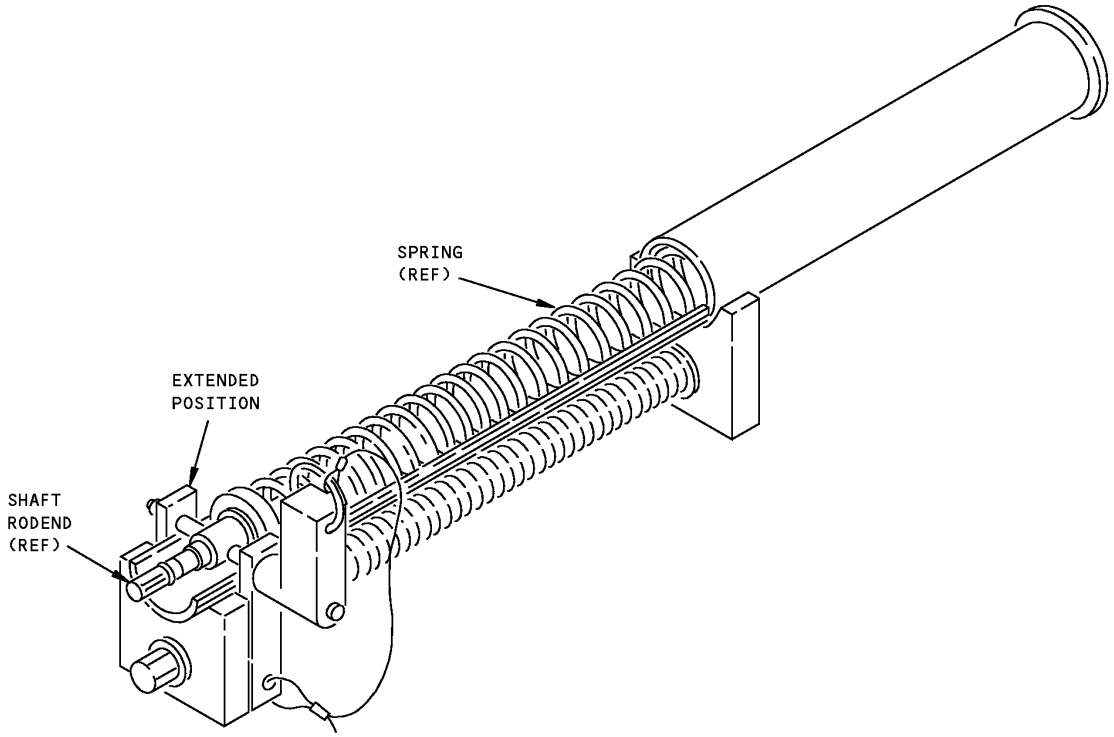


Rudder Ratio Analog Printed Circuit Test Box
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	300206-001	J1 CONNECTOR	V03877

PART NUMBER: B27053-1

NAME:	FIXTURE - SPRING INSTALLATION AND REMOVAL, RUDDER NEUTRAL SHIFT ROD
AIRPLANE MAINTENANCE:	NO
COMPONENT MAINTENANCE:	YES
USAGE & DESCRIPTION:	This tool consists of a compressing fixture used to install and remove the spring on the neutral shift rod assembly of the rudder control. Refer to CMM 27-21-57 for complete usage instructions.
WEIGHT:	5 lbs (2.3 kg)
DIMENSIONS:	6 x 6 x 20 inches (152 x 152 x 508 mm)



Rudder Neutral Shift Rod Spring Installation and Removal Fixture
Figure 1

PART NUMBER: B27064-1, -2

NAME: TORQUE EQUIPMENT - RUDDER PEDAL ADJUSTMENT

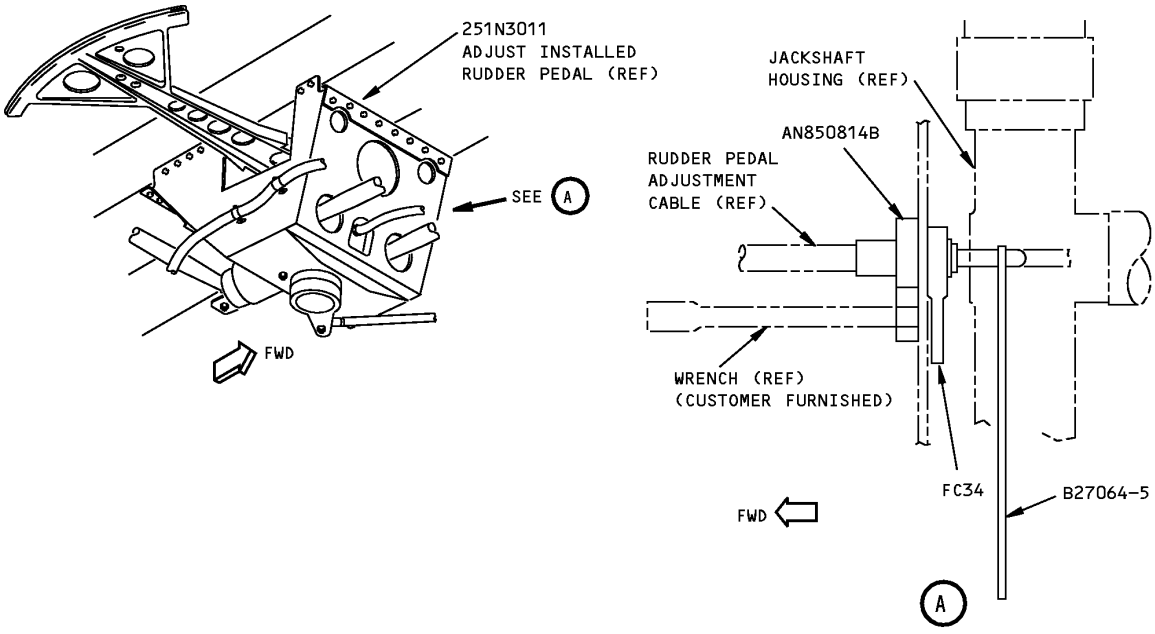
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: When installing the rudder pedal adjustment crank, a B27064-1 or -2 tool is used to hold the universal joint in position to attach and tighten the rudder pedal adjustment shaft retaining nut. B27064-1 includes one AN850814B 7/8 flare nut wrench, one FC34A 1 1/16 crowfoot wrench and a -5 alignment tool, all contained in a storage box. AN850814B and FC34A have been substituted for "the obsolete tools for future procurement" FRH280 and AC34, respectively. The B27064-2 includes only the the -5 alignment tool, contained in a storage box. The AN850814B flare nut wrench and FC34A 1 1/16 crowfoot wrench are customer furnished on the F80264-2. Refer to AMM 27-21-03 and AMM 27-21-05 for complete instructions.

WEIGHT: B27064-1 - 2 lbs (0.9 kg)
B27064-2 - 1 lb (0.45 kg)

DIMENSIONS: B27064-1 - 1 x 3 x 7 inches (25 x 76 x 178 mm)
B27064-2 - 1 x 0.5 x 7 inches (25 x 13 x 178 mm)



Rudder Pedal Adjustment Torque Equipment
Figure 1

PART NUMBER: B27066-36

NAME: SLING EQUIPMENT - RUDDER

AIRPLANE MAINTENANCE: YES

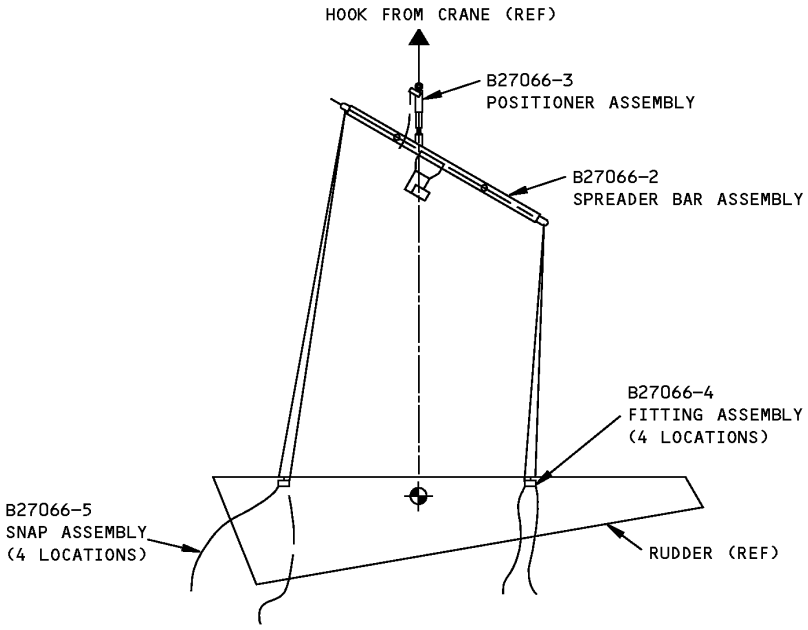
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: Used to remove and/or install rudder. Refer to AMM 27-21-21 for additional usage information. This tool consists of a B27066-2 spreader bar assembly, B27066-3 positioning assembly, B27066-4 fitting assembly and a B27066-5 snap assembly contained in a B27066-6 box assembly.

WEIGHT: B27066-2 assembly - 435 lbs (197 kg)
Boxed assemblies without box - 65 lbs (29 kg)

DIMENSIONS: B27066-2 assembly - 131 x 33 x 42 inches (3327 x 838 x 1067 mm)
Boxed assembly - 26 x 14 x 6 inches (660 x 356 x 152 mm)

NOTE: B27066-36 supersedes B27066-1.
B27066 replaces B27005.



Rudder Sling Equipment
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	MS16998-46	BOLT	
2	CL-42-KH-12.OLR	LANYARD	

PART NUMBER: B29006-1

NAME: SIMULATOR - YAW DAMPER/STABILIZER TRIM MODULE

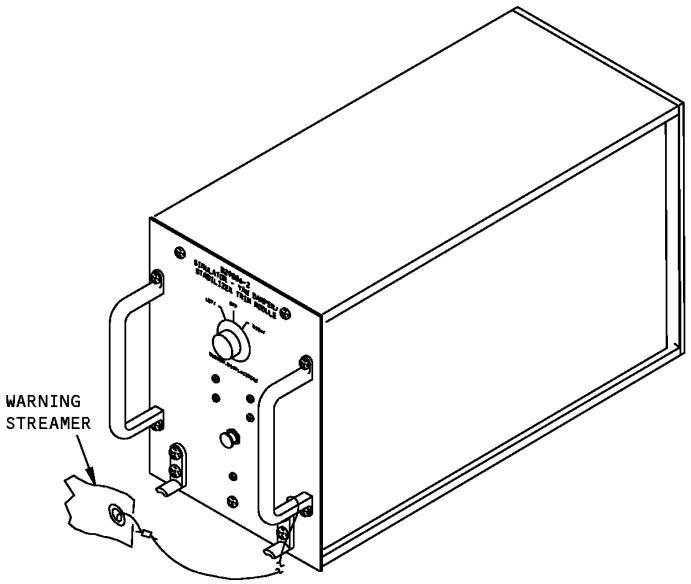
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This simulator is used in place of yaw damper/stabilizer trim modules when performing the test which requires the yaw damper servo input for rudder displacement. Refer to AMM 27-21-00 and AMM 29-11-00 for further usage information. The simulator is used on 757 airplanes equipped with 285T1122 yaw damper/ stabilizer trim module (YSM) only. The simulator consists of two yaw damper/stabilizer trim modules (YSM) simulator assemblies and a case assembly.

WEIGHT: 23 lbs (10 kg)

DIMENSIONS: 9 x 20 x 25 inches (229 x 508 x 635 mm)



YAW DAMPER/STABILIZER SIMULATOR ASSEMBLY

Yaw Damper / Stabilizer Trim Module Simulator
Figure 1

PART NUMBER: A27124-1

NAME: FORCE EQUIPMENT - RUDDER FREEPLAY CHECK

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27124-1 force equipment is used on all 757 airplanes, all 767 airplanes and all 777 airplanes.

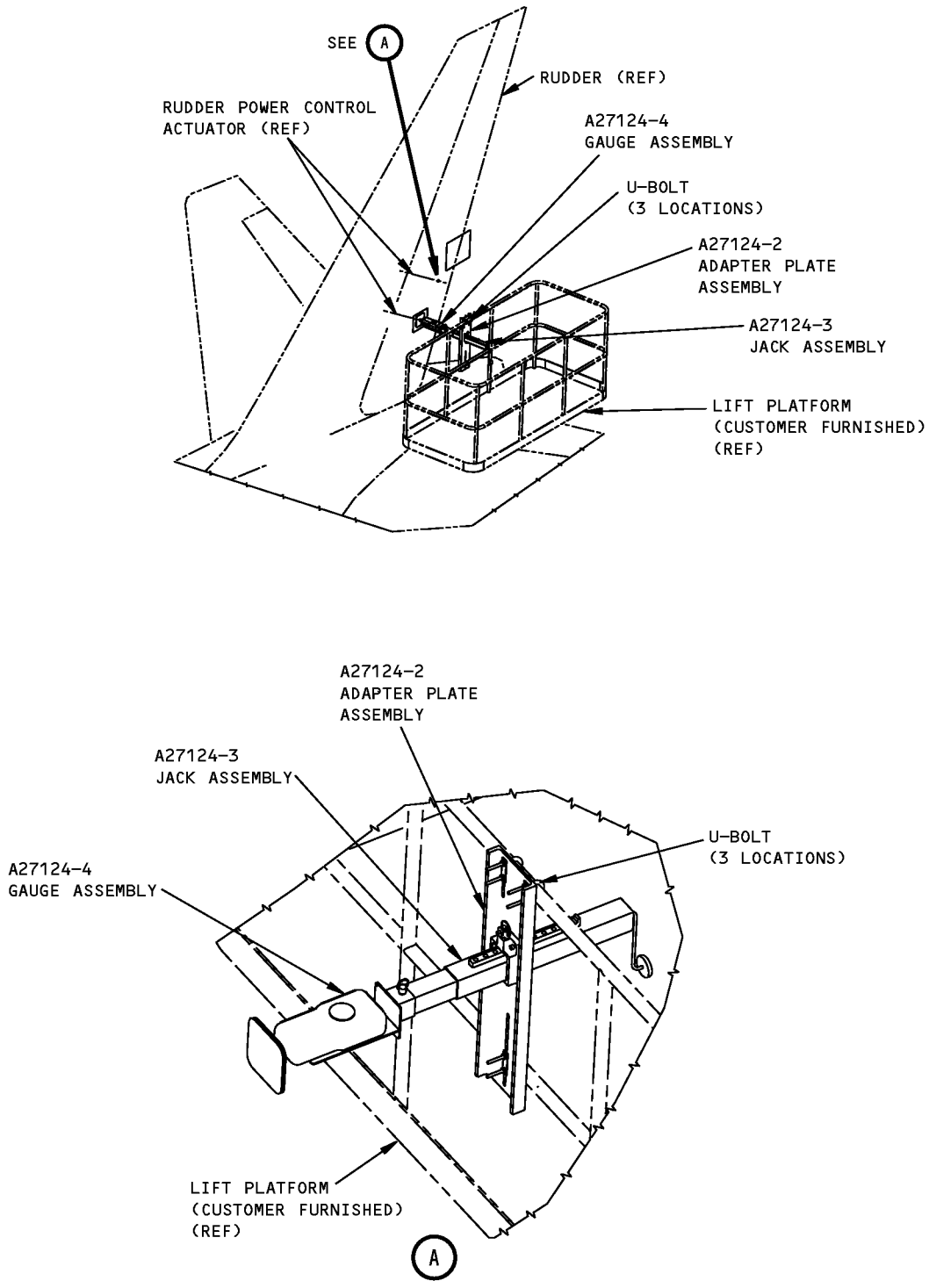
A27124 is used to apply a constant force to the rudder to measure the freeplay of the rudder actuators. Refer to the current A27124 drawing and AMM 27-02-00 for complete usage.

A27124-1 consists of:

A27124-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	ADAPTER PLATE ASSEMBLY	A27124-2
1	JACK ASSEMBLY	A27124-3
1	GAUGE ASSEMBLY	A27124-4
3	U-BOLT	30555T42
3	U-BOLT	30555T43
3	U-BOLT	30555T44
1	STORAGE BOX	

WEIGHT: 30 lbs (14 kg)

DIMENSIONS: 6 x 15 x 26 inches (152 x 381 x 660 mm)



1597789 S0000296308_V1

Rudder Freeplay Check Force Equipment
Figure 1

PART NUMBER: B27009-12

NAME: LOCK-OUT EQUIPMENT - POWER CONTROL ACTUATOR, ELEVATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

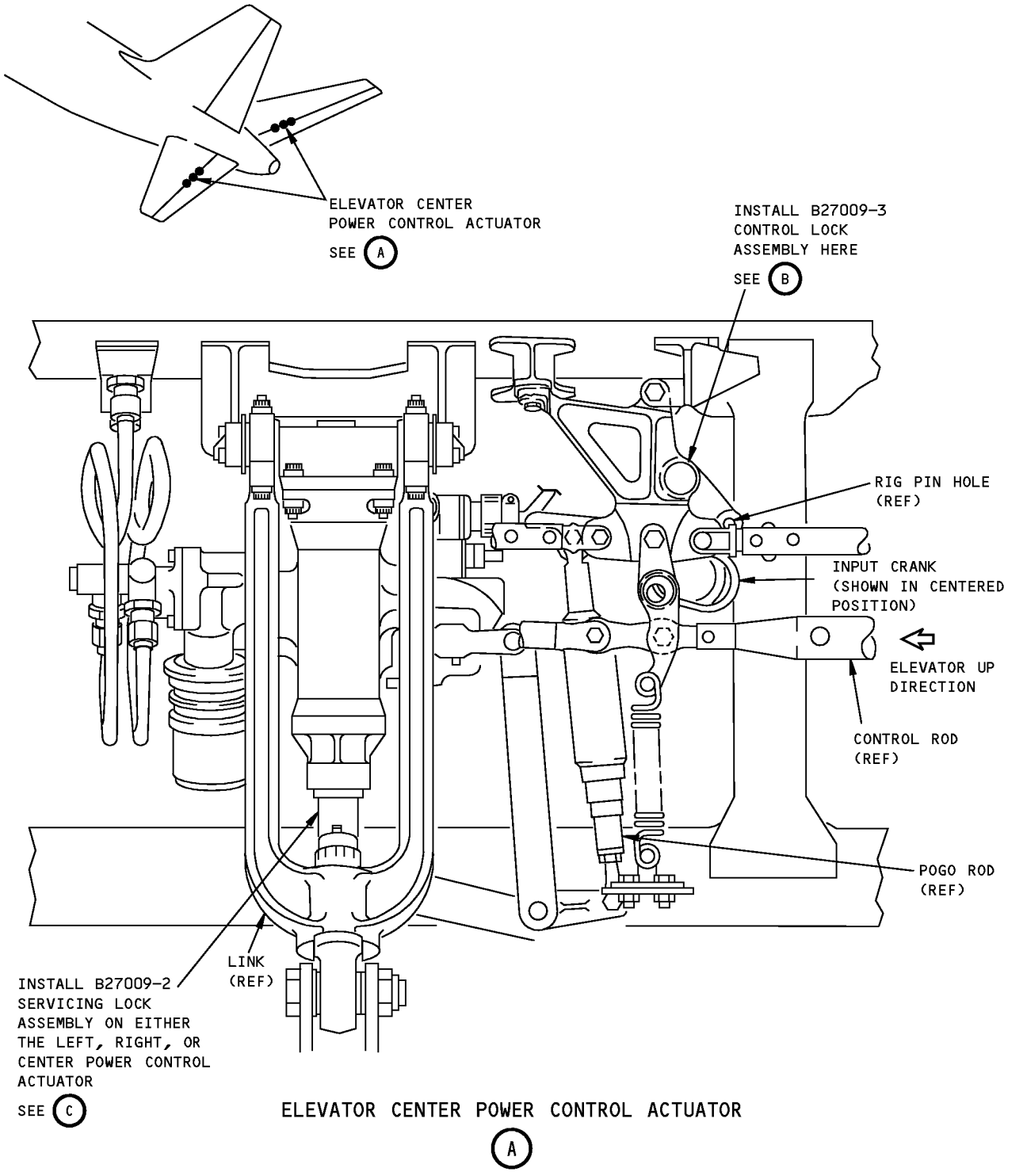
USAGE & DESCRIPTION: B27009-12 lock-out equipment is used on all 757 airplanes. B27009 control lock assemblies safety the elevator control system. B27009 is used in conjunction with a customer-furnished B27032 pogo rod compressor. B27009 consists of two lock assemblies; the B27009-2 servicing lock assembly positions the elevator "full up" for system servicing, and the B27009-3 control lock assembly secures the elevator control against accidental operation. Refer to AMM 12-21-04, AMM 27-31-05, AMM 27-31-06 and the current B27009 drawing for complete usage instructions. B27009-12 consists of:

B27009-12		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	SERVICING LOCK ASSEMBLY	B27009-2
1	CONTROL LOCK ASSEMBLY	B27009-3
1	STORAGE BOX	

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 4 x 10 x 12 inches (102 x 254 x 305 mm)

NOTE: B27009-12 supersedes B27009-1



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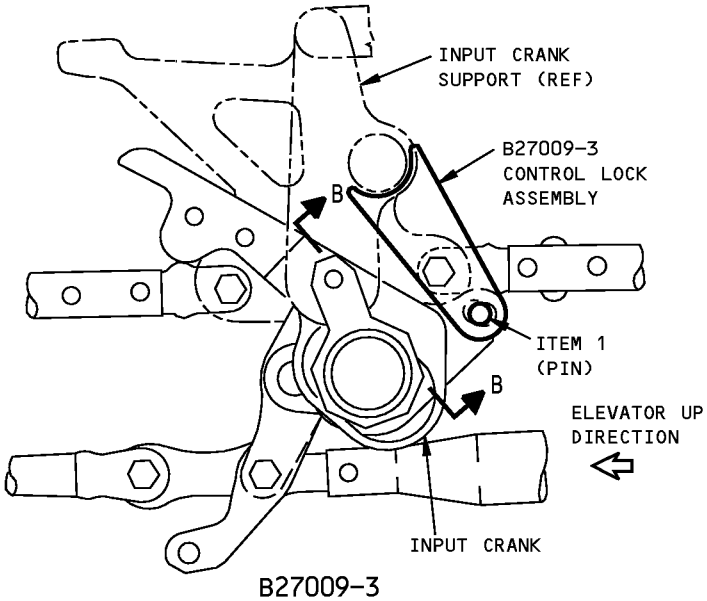
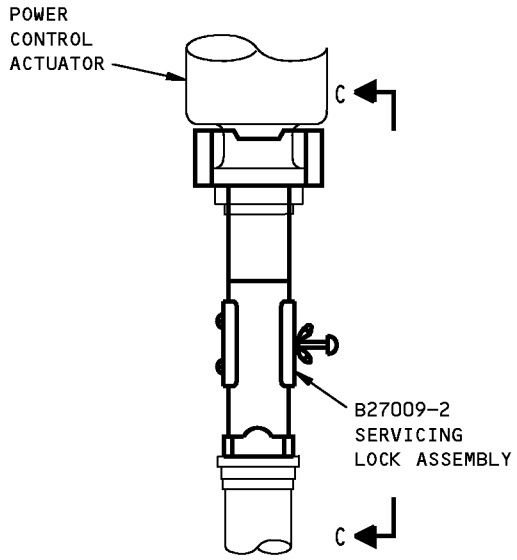
Elevator Power Control Actuator Lock-Out Equipment
Figure 1 (Sheet 1 of 2)

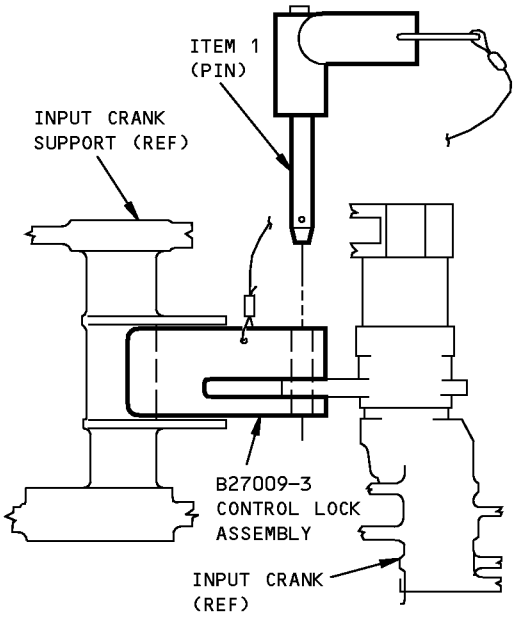


B27009-3
CONTROL LOCK ASSEMBLY
(POWER CONTROL ACTUATOR LINKAGE IN UP POSITION)



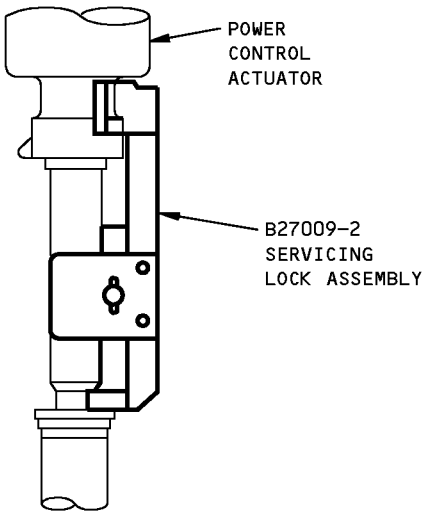
B27009-2
LOCK ASSEMBLY
(POWER CONTROL ACTUATOR EXTENDED)

B 1



B-B

C 1



C-C

1 INSTALL LOCK ASSEMBLY B27009-3 BEFORE B27009-2

L90897 S0000215910_V2

Elevator Power Control Actuator Lock-Out Equipment
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	NAS1335C5C1.5D	BALL LOCKPIN	

PART NUMBER: B27021-1

NAME: REMOVAL/INSTALLATION SLING - ELEVATOR

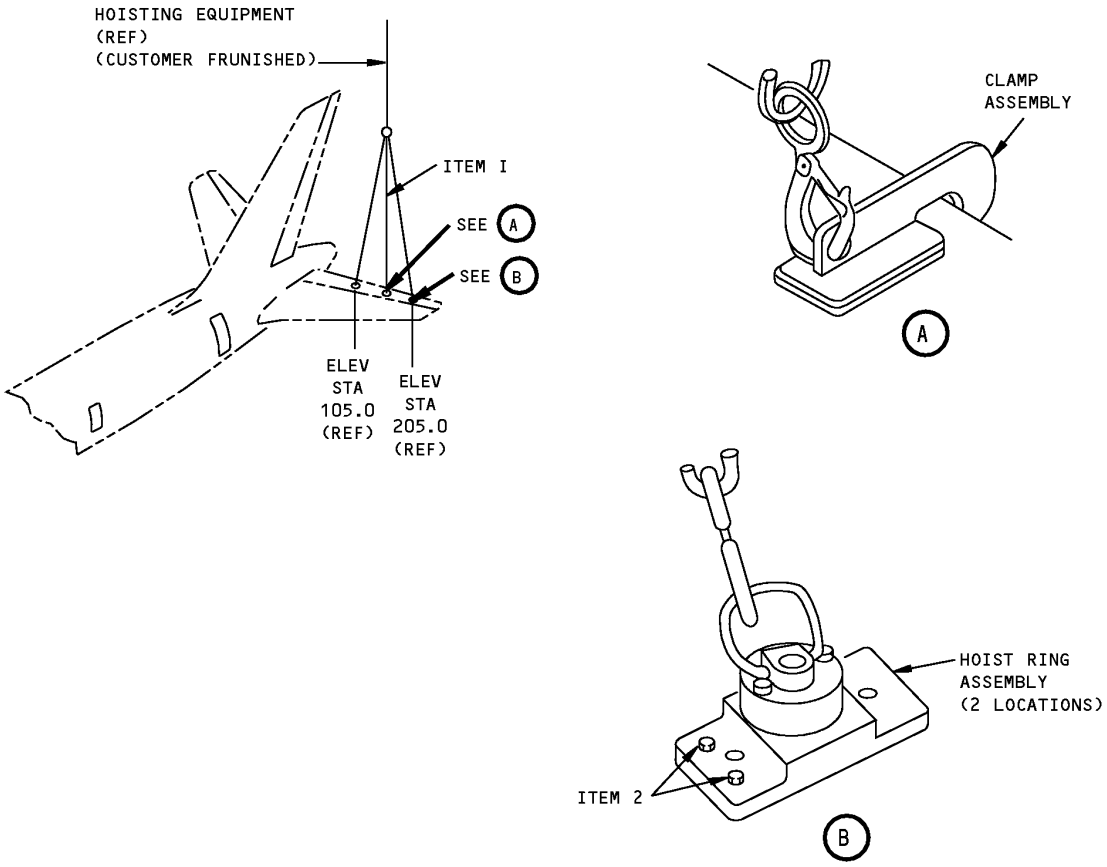
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This sling equipment consists of a shackle, three cables, two hoist ring assemblies and one clamp assembly. The hoist ring assemblies fasten into the elevator and the clamp assembly fastens onto the elevator aft end surface during elevator removal/installation operation. Refer to AMM 27-31-01 for further usage information.

WEIGHT: 20 lbs (9 kg)

DIMENSIONS: 12 x 12 x 24 inches (305 x 305 x 610 mm)



Elevator Removal/Installation Sling
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	F70308-15	PROOF LOAD TAG	
2	NAS1304-10	BOLT	

PART NUMBER: B27024-1

NAME: REMOVAL/INSTALLATION FIXTURE - NEUTRAL SHIFT ROD SPRING

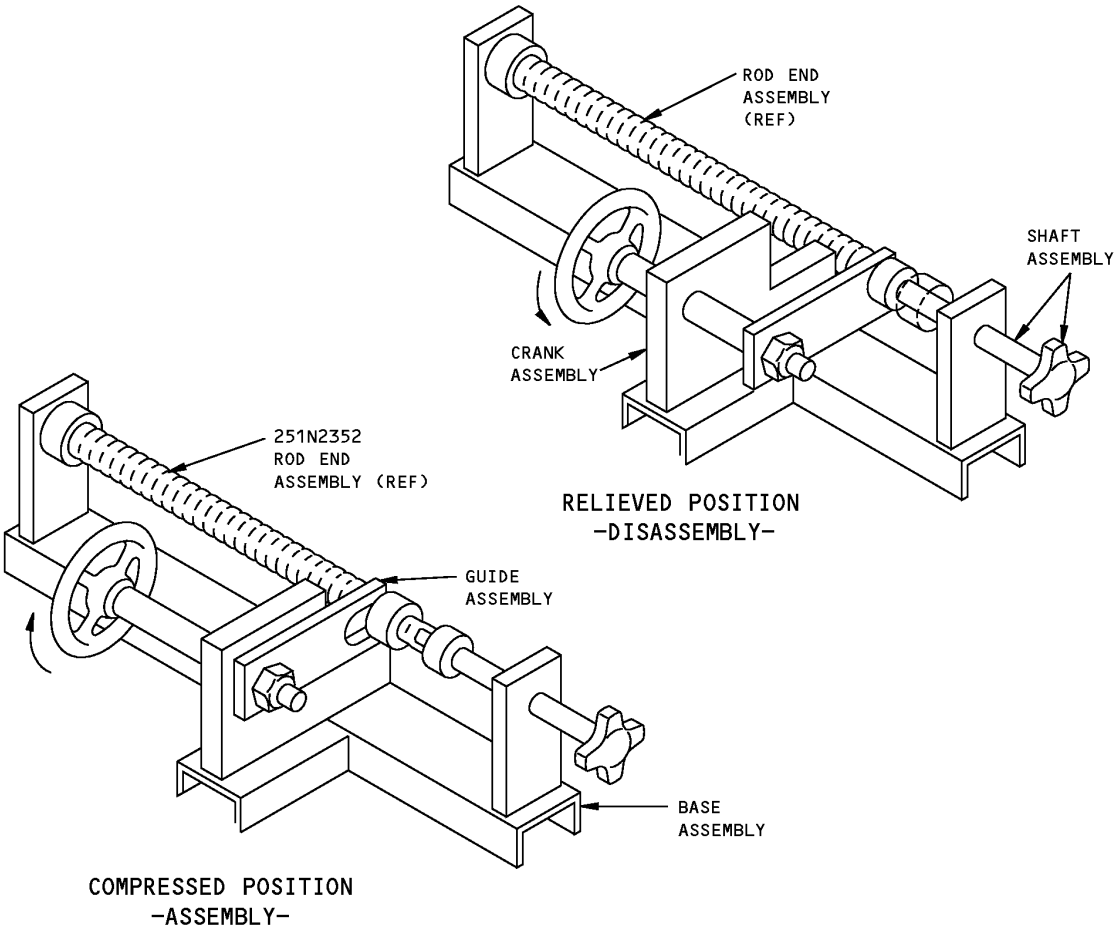
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B27024–1 is used on all 757 model airplanes. This tool consists of four major components; a base assembly, crank assembly, guide assembly and shaft assembly. The shaft assembly locates and secures the elevator control inner rod end assembly as the guide and crank assemblies compress/ relieve the spring tension. Refer to CMM 27-31 for further usage instructions.

WEIGHT: 15 lbs (7 kg)

DIMENSIONS: 7 x 9 x 20 inches (178 x 229 x 508 mm)



Neutral Shift Rod Elevator Spring Removal / Installation Fixture
Figure 1

PART NUMBER: B27022-4, -16

NAME: HOLDING TOOL - ELEVATOR CABLE TENSION REGULATOR RIGGING

AIRPLANE MAINTENANCE: YES

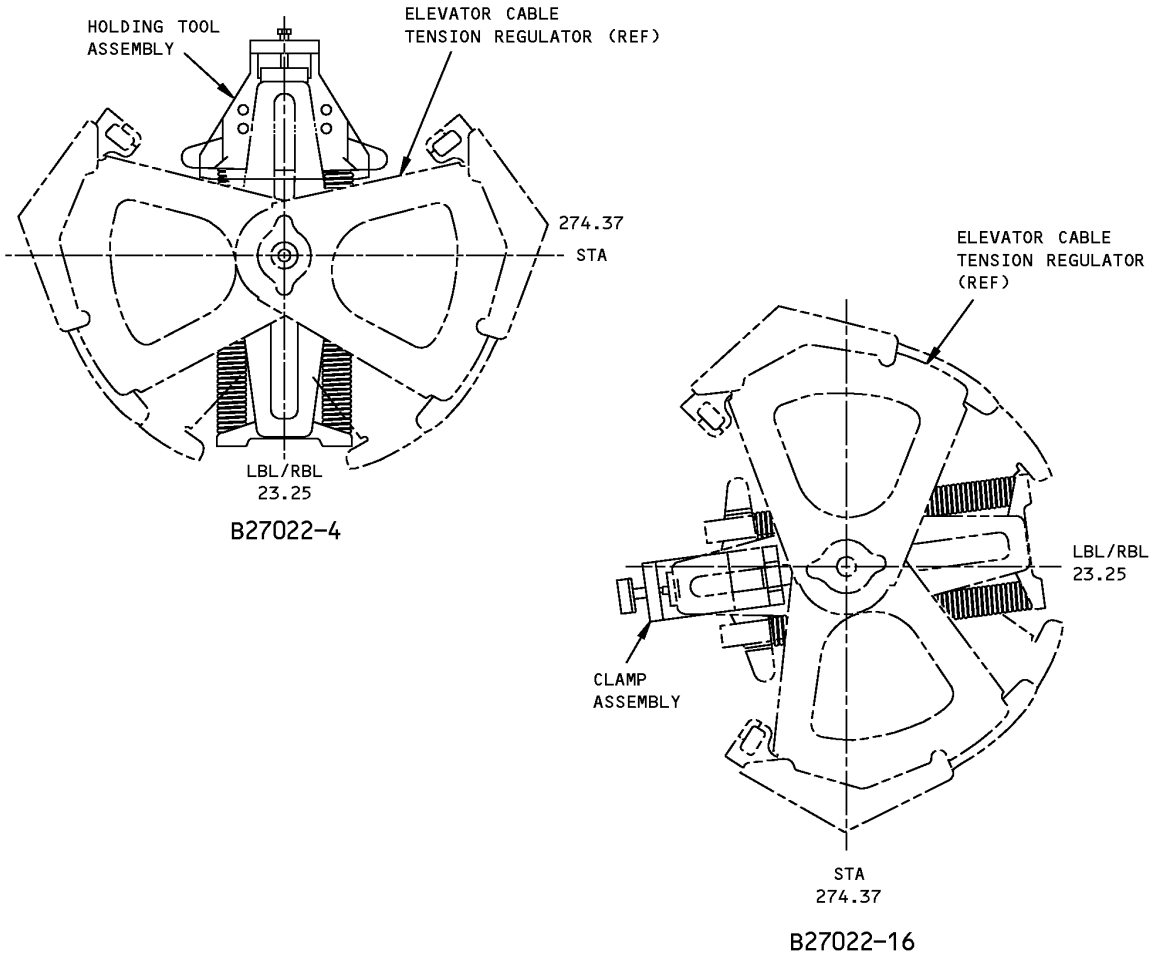
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27022-4 tool is applicable to 757 airplanes with S251N261-3 tension regulator. The B27022-16 tool is applicable to 757 airplanes with S251N261-4 tension regulator. This tool holds the cable tension regulator in the mid position when cables are stretched during elevator rigging. The lock prevents relative motion between the center support and the spring ends. Refer to AMM 27-31-00 and AMM 27-31-12 for further usage instructions. The B27022-4 tool consists of a holding tool assembly and a box assembly. The B27022-16 tool consists of a clamp assembly and a box assembly.

WEIGHT: 2 lbs (0.9 kg), each rigging tool

DIMENSIONS: B27022-4 - 3 x 7 x 9 inches (76 x 178 x 229 mm)
B27022-16 - 2 x 3 x 6 inches (51 x 76 x 152 mm)

NOTE: B27022-4 supersedes B27022-1



Elevator Cable Tension Regulator Rigging Holding Tool
Figure 1

PART NUMBER: B27023-47

NAME: RIGGING BLOCK EQUIPMENT - ELEVATOR AFT QUADRANT

AIRPLANE MAINTENANCE: YES

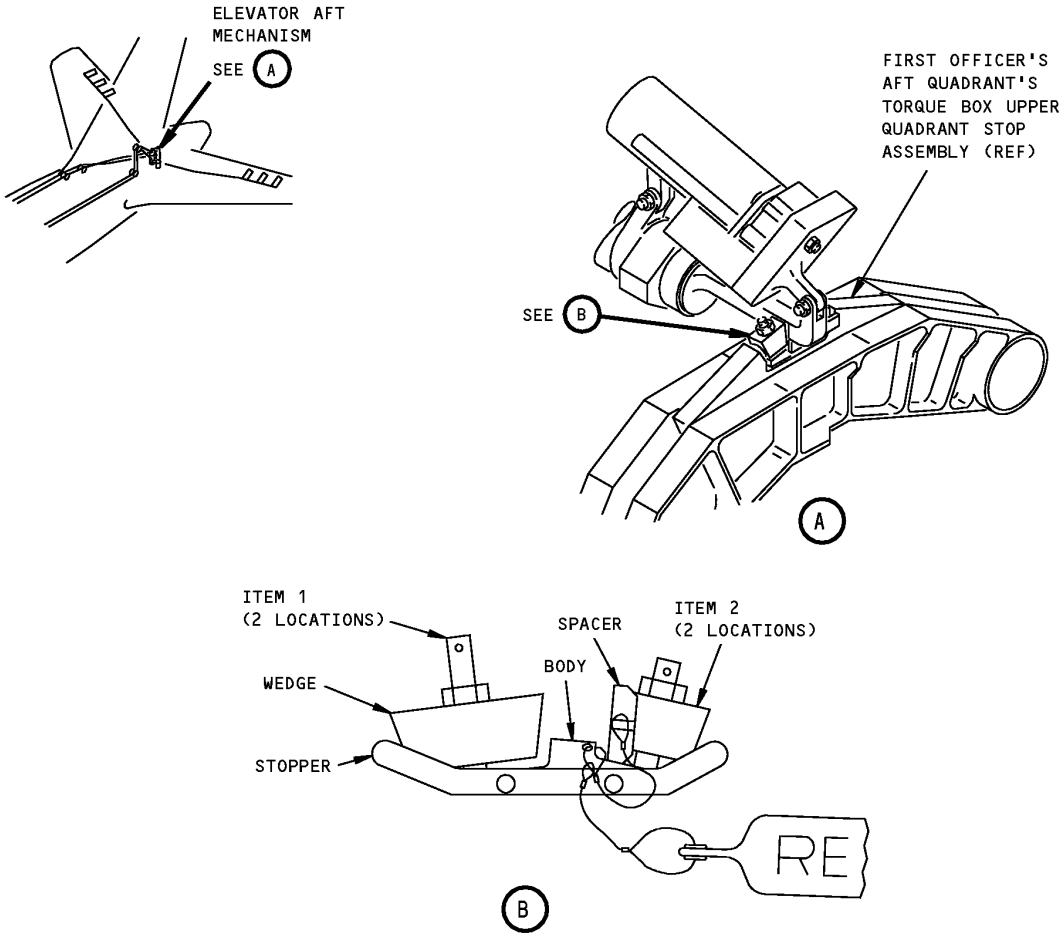
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This equipment is used to block the first officer's aft quadrant during the elevator control system functional test. The B27023-47 equipment consists of a storage box assembly and two rigging block assemblies. They are the B27023-48 rigging block assembly used for the neutral position and the B27023-49 used for the 5 degree up position.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 1 x 4 x 8 inches (28 x 102 x 203 mm) (each tool)

NOTE:
B27023-47 supersedes B27023-31
B27023-31 supersedes B27023-14, -30
B27023-14, -30 supersedes B27023-1, -18
B27023-14, -18 supersedes B27023-1, -7



Elevator Aft Quaudrant Rigging Block Equipment
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR NO.**
1	AN315-4R	HEX NUT	
2	MS16562-4	SPRING PEN	

PART NUMBER: B27031-16

NAME: CHECKING FIXTURE - ELEVATOR POGO ROD ASSEMBLY

AIRPLANE MAINTENANCE: NO

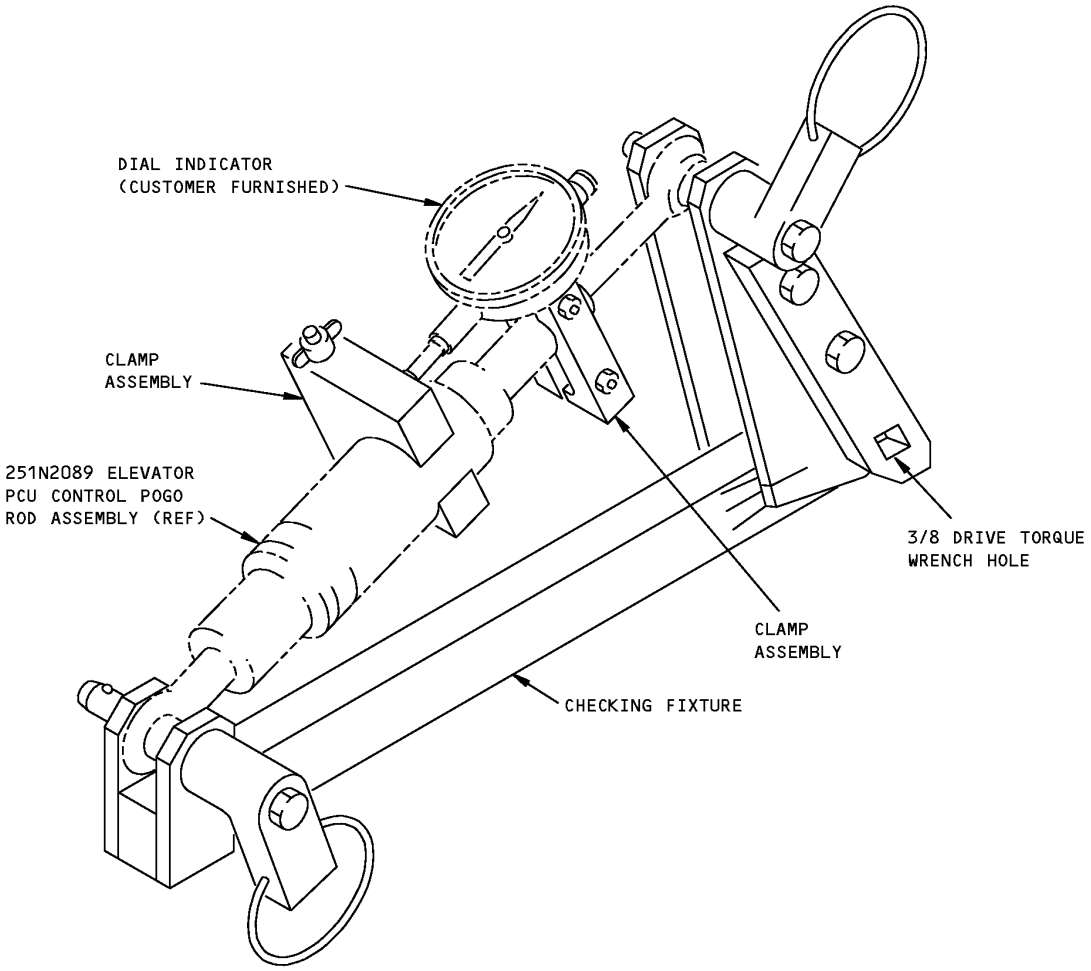
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to measure the breakout tension and compression torque (torque required to overcome the elevator pogo rod internal spring) and torque required for full travel of the pogo rod. See CMM 27-31-05 for further usage information.

WEIGHT: 2 lbs (1 kg)

DIMENSIONS: 2 x 6 x 12 inches

NOTE: B27031-16 supercedes B27031-1



Elevator Pogo Rod Assembly Checking Fixture
Figure 1

PART NUMBER: B27032-9

NAME: COMPRESSOR - ELEVATOR PCU POGO ROD

AIRPLANE MAINTENANCE: YES

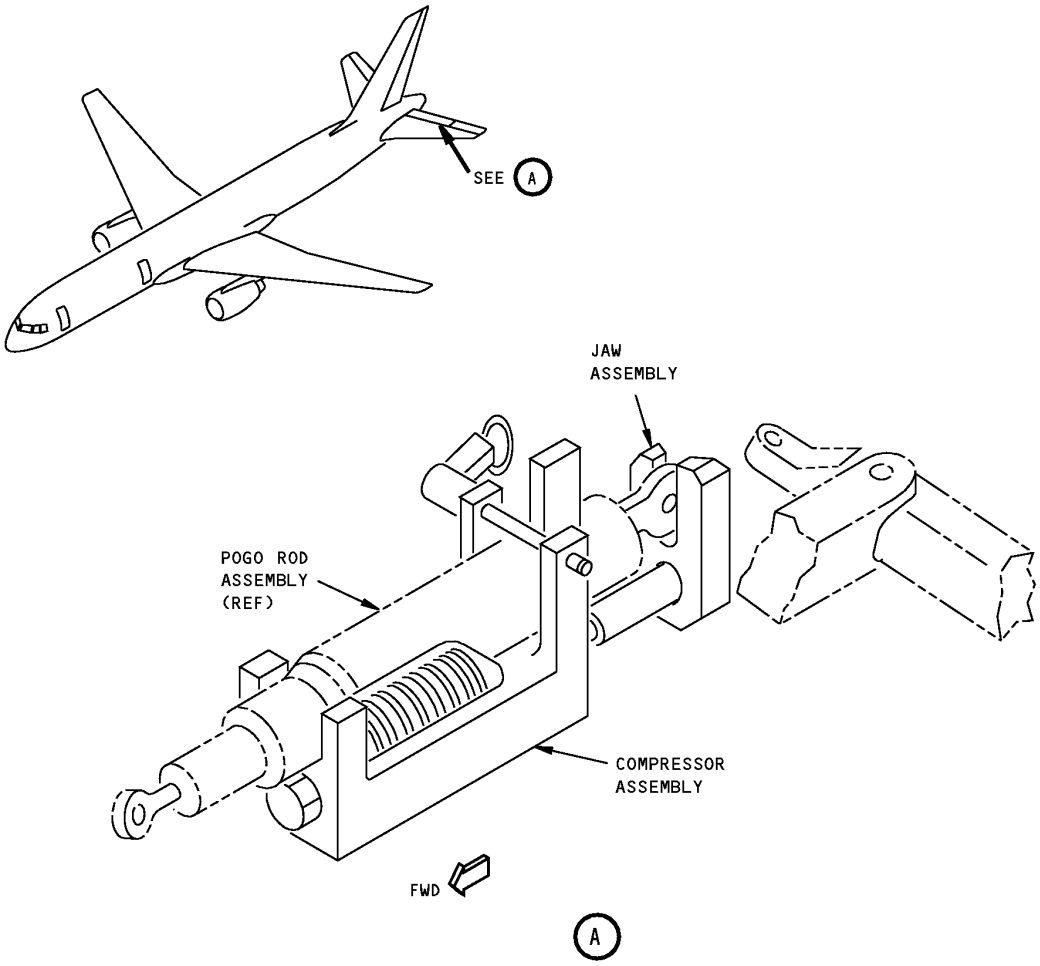
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to compress or extend and hold the elevator PCU pogo rod during control system internal leakage checks. This is a maintenance requirement to be performed during ''C'' Check. This tool must be used with the elevator control system locked in the full up position and with too B27009-3 in place. See AMM 27-31-05 for futher usage information.

WEIGHT: 2 lbs (1 kg)

DIMENSIONS: 4 x 6 x 10 inches (102 x 153 x 256 mm)

NOTE: B27032-9 supersedes B27032-1



Elevator PCU Pogo Rod Compressor
Figure 1

PART NUMBER: B27039-13

NAME: RIGGING EQUIPMENT - ELEVATOR AND STABILIZER TRIM SYSTEMS CONTROL INSTALLATION

AIRPLANE MAINTENANCE: YES

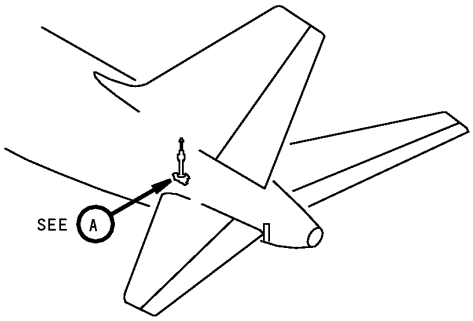
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: B27039-13 is used on all 757 airplanes. B27039-13 is used to establish a set dimension to the horizontal stabilizer jack + or - 0.01 inch. The gage assembly is placed against the ballscrew so that the bolt heads are on the shoulders of the upper and lower stop. To guard against preloading, the gage plate should be able to be inserted between the bolt head of the gage assembly and on the shoulder of the upper stop. The B27039-13 rigging equipment consists of a -2, -3, -14, -15, -16 and a -17 gage assembly contained in a storage box. Refer to AMM 22-12-04, AMM 23-38-02, AMM 27-31-00, AMM 27-31-02, AMM 27-31-15, AMM 27-31-16, AMM 27-31-17, AMM 27-31-18. AMM 27-31-19, AMM 27-31-21, AMM 27-38-00, AMM 27-41-00, AMM 27-41-05, AMM 27-41-07, AMM 27-41-10, and AMM 27-48-00 for complete usage instuctions.

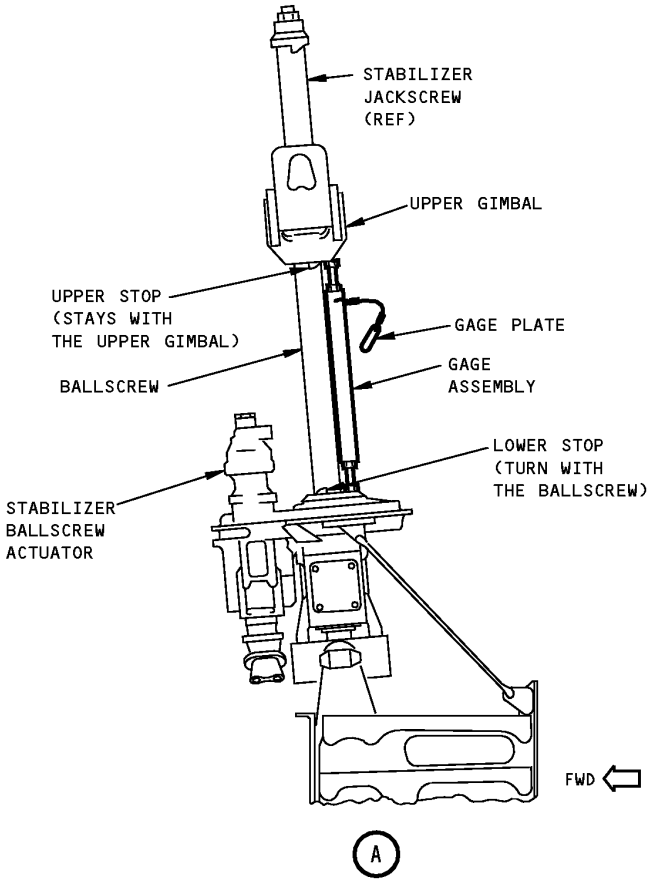
WEIGHT: 5 lbs (2.3 kg)

DIMENSIONS: 3 x 9 x 20 inches (76 x 229 x 508 mm)

NOTE: B27039-13 supersedes B27039-8.



Elevator and Stabilizer Trim Systems Control Installation Rigging Equipment
Figure 1 (Sheet 1 of 2)



Elevator and Stabilizer Trim Systems Control Installation Rigging Equipment
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27040-1

NAME: RIGGING BUSHING - ELEVATOR CONTROL CRANK AND SHAFT ASSEMBLY

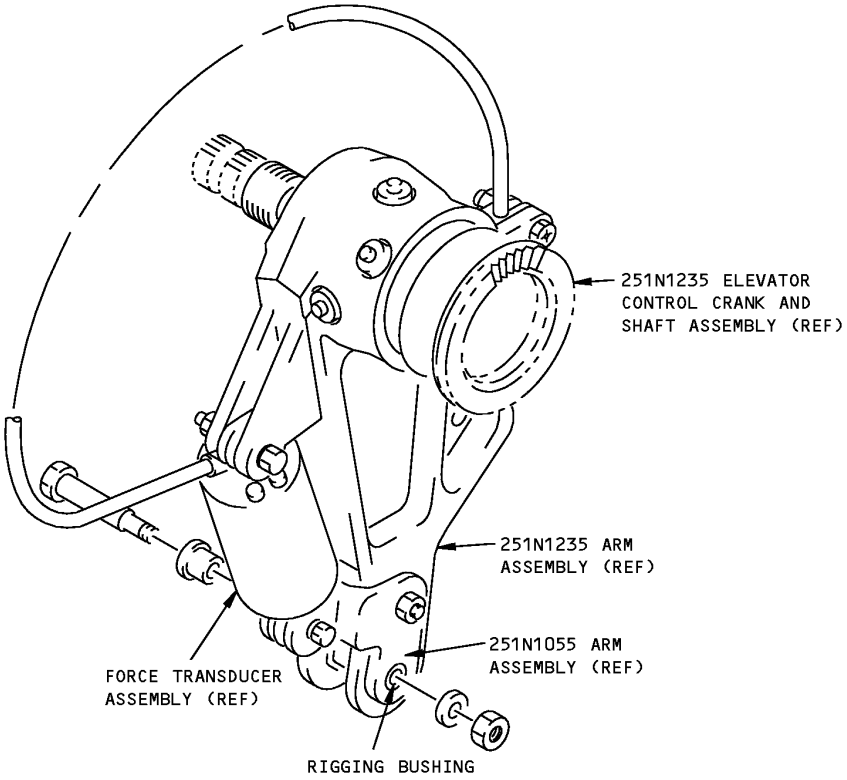
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool consists of a bushing that is used during rigging of the force transducer. The bushing is used to center the travel limts of the 251N1055 arm assembly in the elevator control crank and shaft assembly. See CMM 27-31-36 for further usage information.

WEIGHT: 0.11 oz (3 g)

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



Elevator Control Crank and Shaft Assembly Rigging Bushing
Figure 1

PART NUMBER: B27063-1, -10

NAME: CABLE TENSION RELIEF HOLDER - ELEVATOR CABLE TENSION REGULATOR

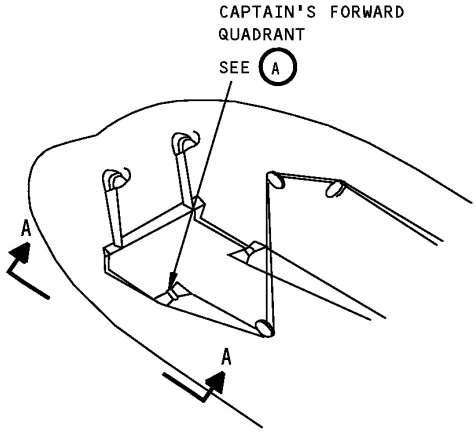
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

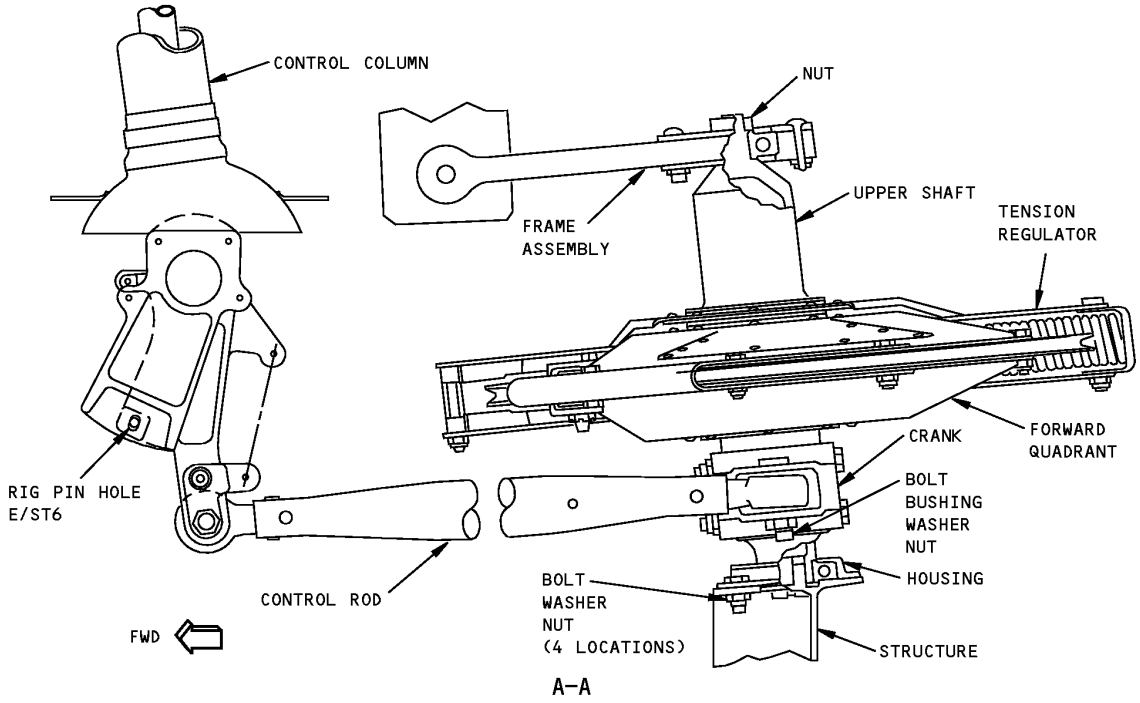
USAGE & DESCRIPTION: B27063-1 or -10 are used on all 757 airplanes. B27063-1 is used on airplanes that incorporated the S251N261-3 tension regulator. B27063-10 is used on airplanes that incorporated the S251N261-4 tension regulator. The B27063 tools are used to block tension regulator springs and are installed before relieving cable tension loads. B27063 tools are used in conjunction with the B20003-1 rigging pin to remove and install the forward quadrant/tension regulator for the elevator control system. Refer to AMM 27-31-00 and 27-31-12 for complete usage instructions. B27063-1 consists of two -2 holder assemblies contained in a storage bag. B27063-10 consists of two -7 block assemblies contained in a storage bag. The -2 holder assembly and -7 block assembly perform the same function and are similar in appearance.

WEIGHT: 1 lb (0.45 kg)

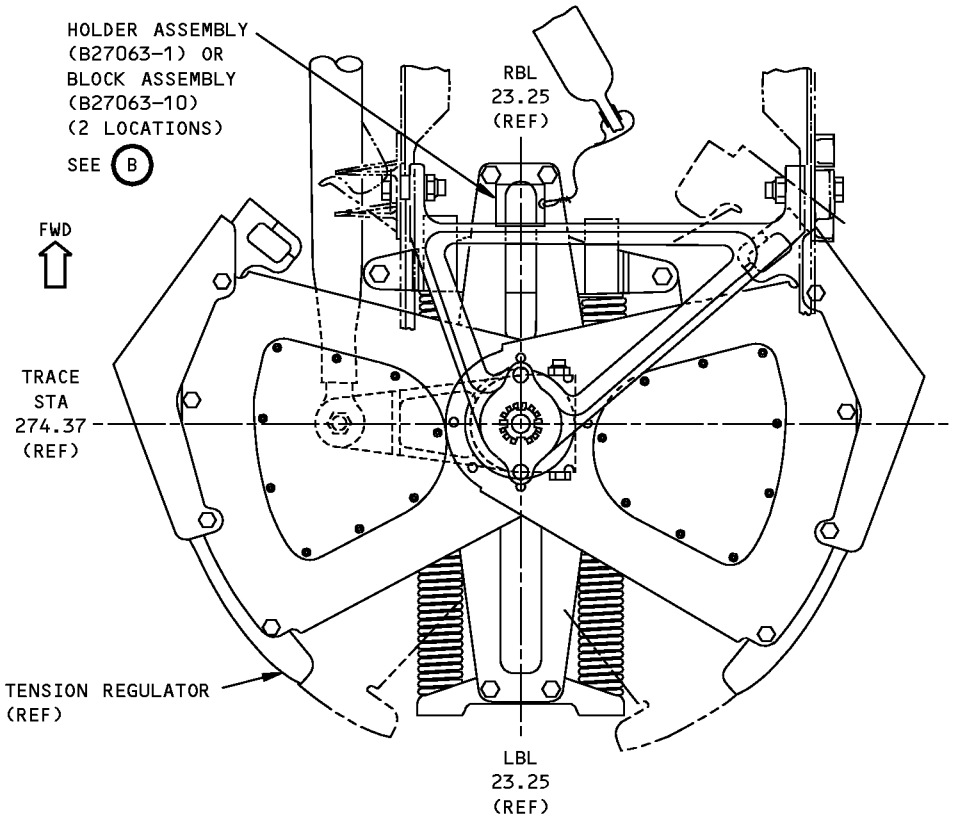
DIMENSIONS: 2 x 3 x 4 inches (51 x 76 x 102 mm)



Elevator Cable Tension Regulator Cable Tension Relief Holder
Figure 1 (Sheet 1 of 3)

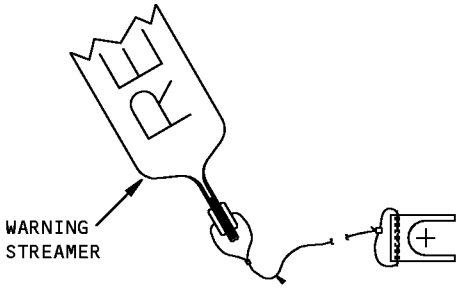


Elevator Cable Tension Regulator Cable Tension Relief Holder
Figure 1 (Sheet 2 of 3)



B27063-1
(B27063-10 SIMILAR)

(A)



B27063-7 BLOCK ASSEMBLY
(B27063-2 HOLDER ASSEMBLY SIMILAR)

(B)

Elevator Cable Tension Regulator Cable Tension Relief Holder
Figure 1 (Sheet 3 of 3)

PART NUMBER: B27043-1

NAME: JIG EQUIPMENT - ELEVATOR FEEL AND CENTERING UNIT

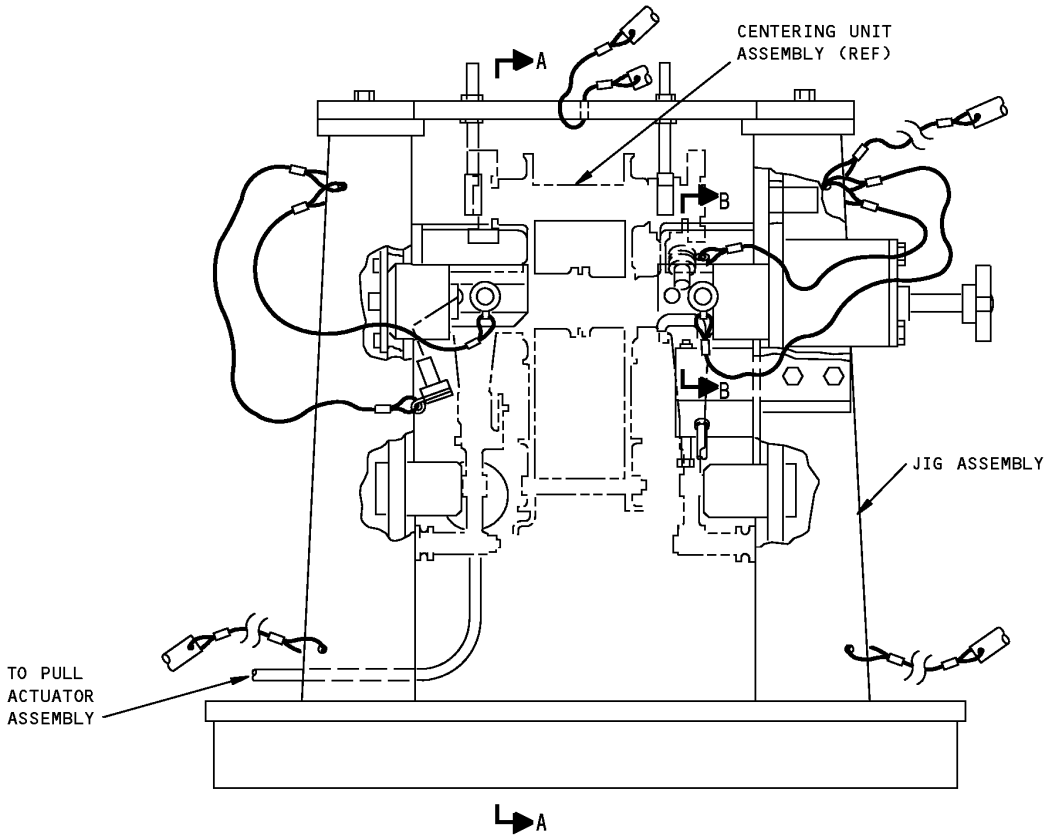
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

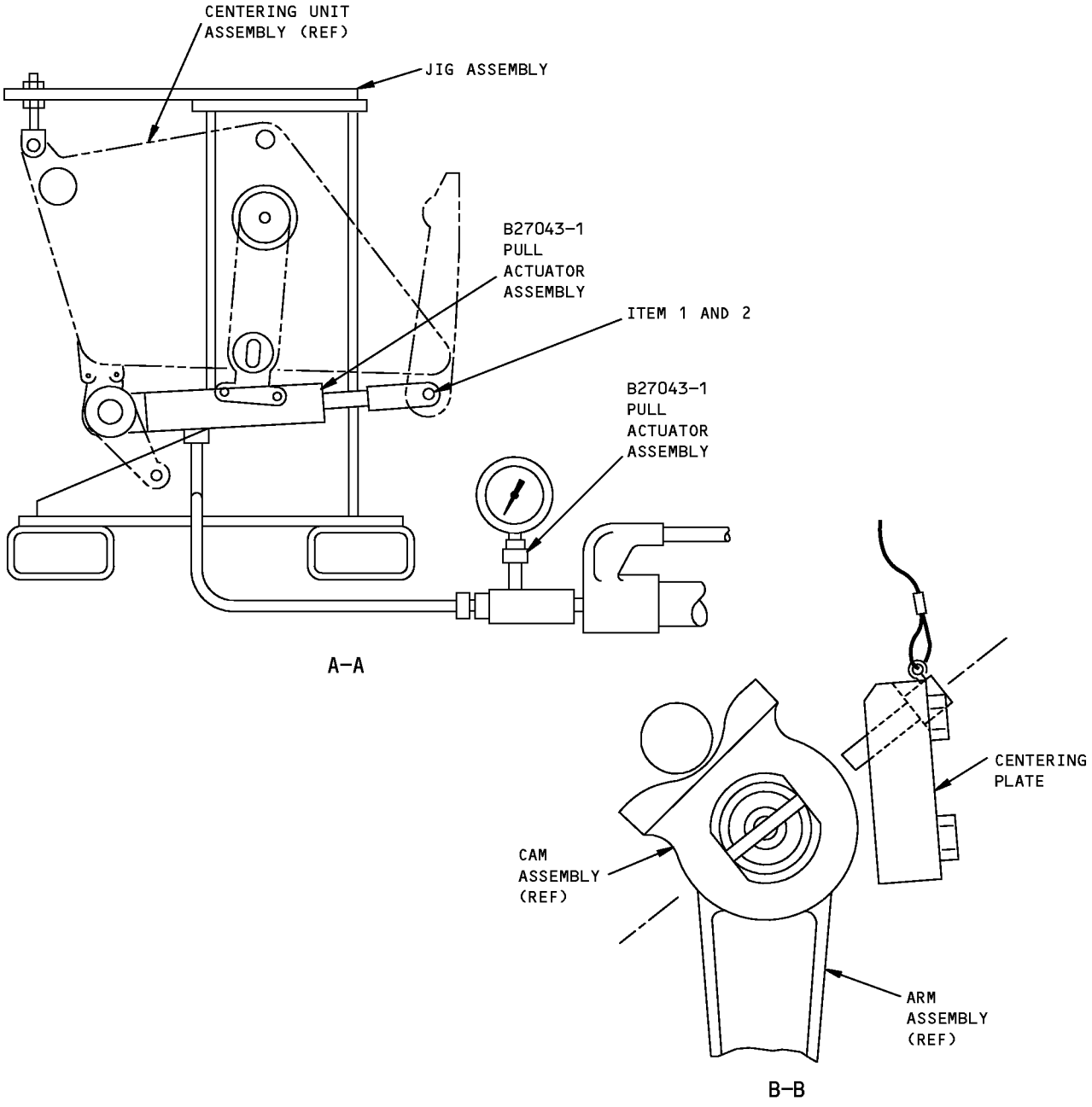
USAGE & DESCRIPTION: This jig equipment is used to assist the assembly, drilling and adjustment of the elevator feel and centering unit. The B27043-1 consists of a -2 jig assembly and a -34 pull actuator assembly contained in a storage box. A customer furnished dial indicator with a magnetic stand is also required. Refer to CMM 27-31-10 for complete usage instructions.

WEIGHT: 190 lbs (86 kg)

DIMENSIONS: 16 x 22 x 24 inches (406 x 559 x 610 mm)



Elevator Feel and Centering Unit Jig Equipment
Figure 1 (Sheet 1 of 2)



Elevator Feel and Centering Unit Jig Equipment
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	AN6-13A	BOLT	
2	MS51968-8	NUT	

PART NUMBER: A27041-176

NAME: TEST EQUIPMENT - ELEVATOR FEEL AND CENTERING UNIT

AIRPLANE MAINTENANCE: NO

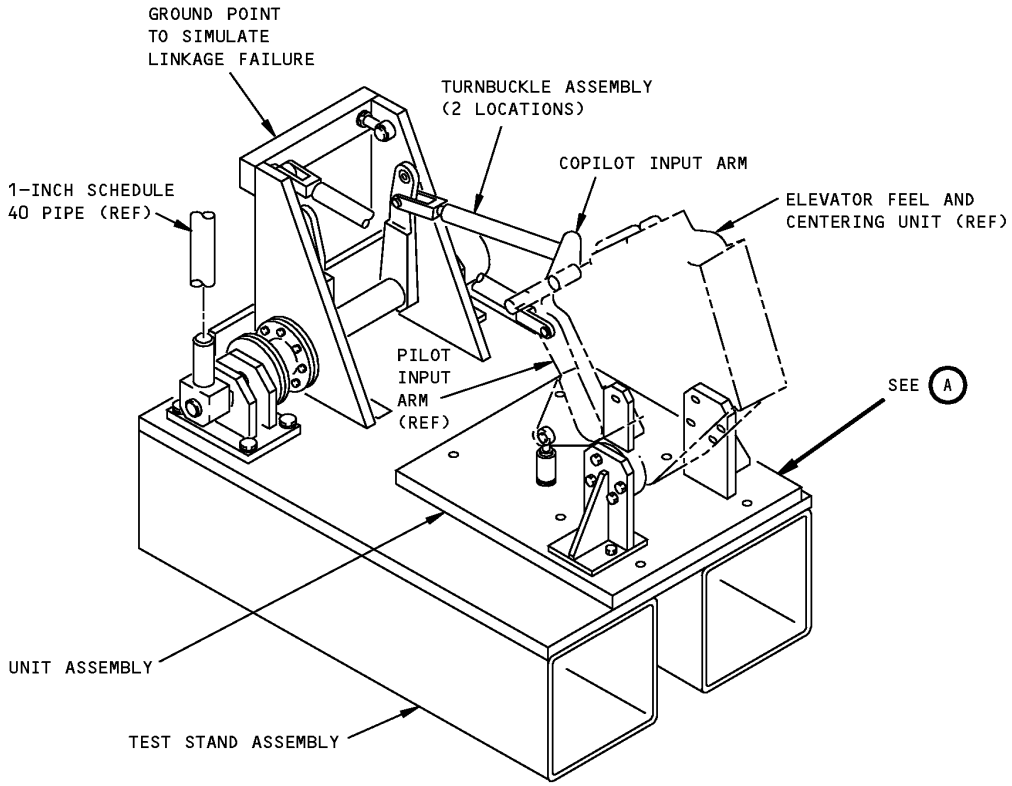
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to functionally test the elevator feel and centering unit. Refer to CMM 27-31-10 for complete usage instructions. This tool consists of a -178 test stand assembly, a -35 unit assembly and two -38 turnbuckle assemblies. The test equipment is used in conjunction with the A27081 test set.

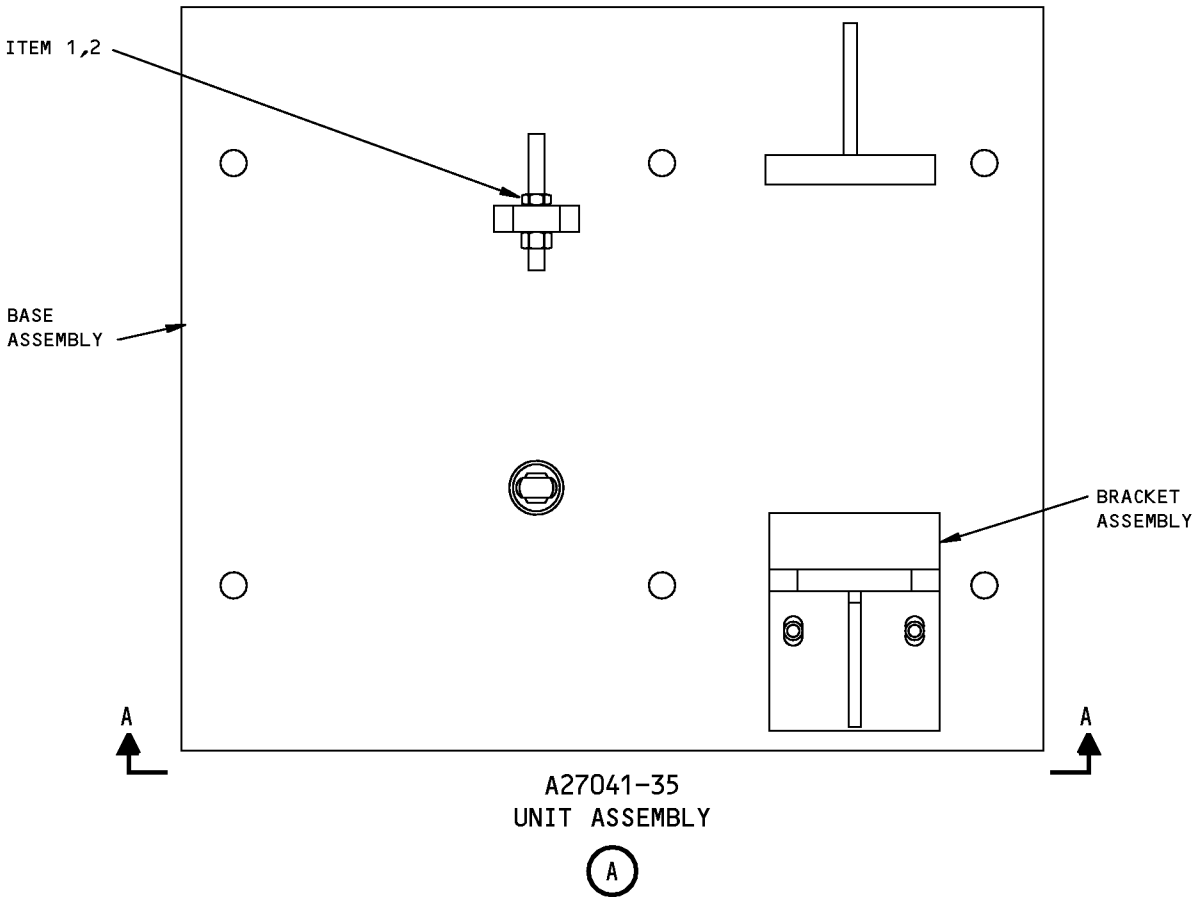
WEIGHT: 425 lbs (193 kg)

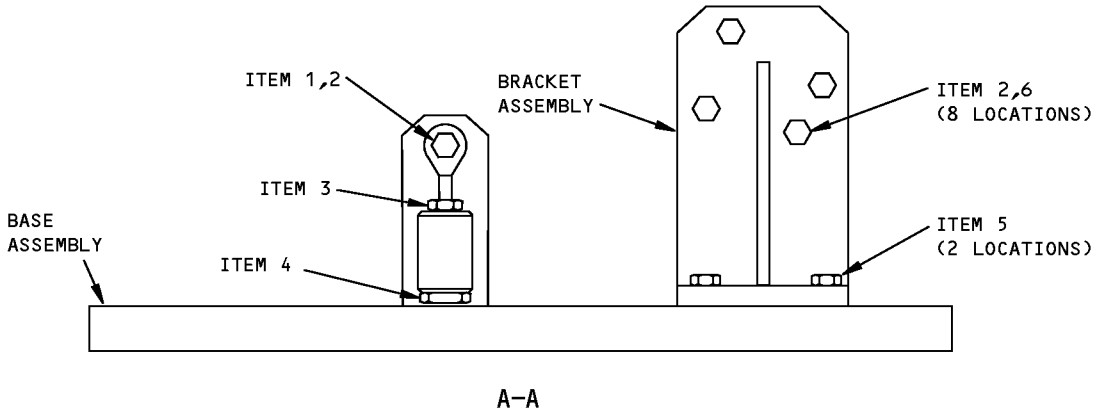
DIMENSIONS: 24 x 24 x 34 inches (610 x 610 x 864 mm)

NOTE: A27041-176 supersedes -169, -141, -140 and -33.



Elevator Feel and Centering Unit Test Equipment
Figure 1 (Sheet 1 of 2)





Elevator Feel and Centering Unit Test Equipment
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	AN4-C12	BOLT	
2	MS21044-C4	NUT	
3	AN316-4L	NUT	
4	AN316-8R	NUT	
5	AN5-6	BOLT	
6	AN4-C11	BOLT	

PART NUMBER: A27035-1

NAME: ADAPTER - RUDDER/ELEVATOR FEEL ACTUATOR CYLINDER

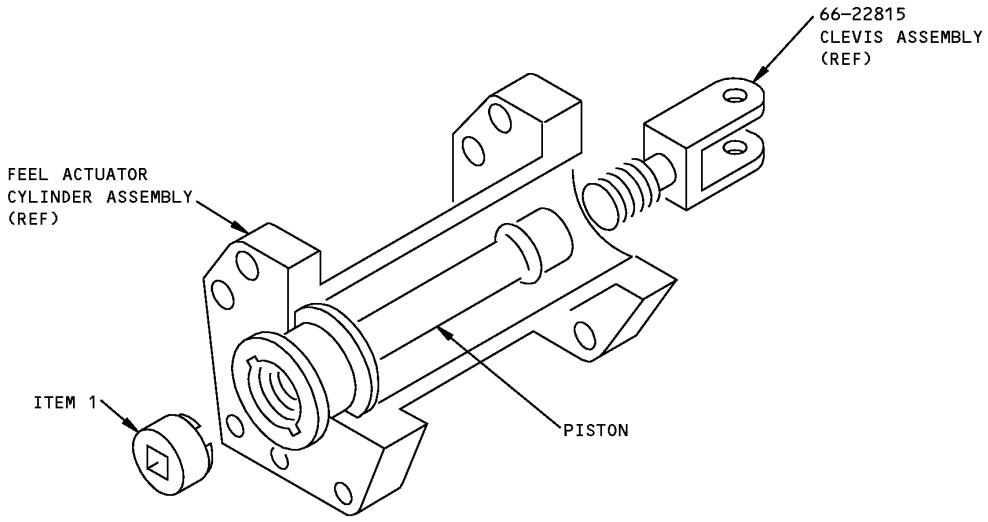
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is a steel torque wrench adapter that is used with a customer-supplied 3/8-inch square drive torque wrench (260-280 in-lb) to secure the feel actuator cylinder piston to the actuator clevis assembly.

WEIGHT: 0.125 lb (0.157 kg)

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



Rudder/Elevator Feel Actuator Cylinder Adapter
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	-1	ADAPTER	

PART NUMBER: F80085-1, -12

NAME: TEST FIXTURE - CYLINDER ASSEMBLY, FEEL ACTUATOR

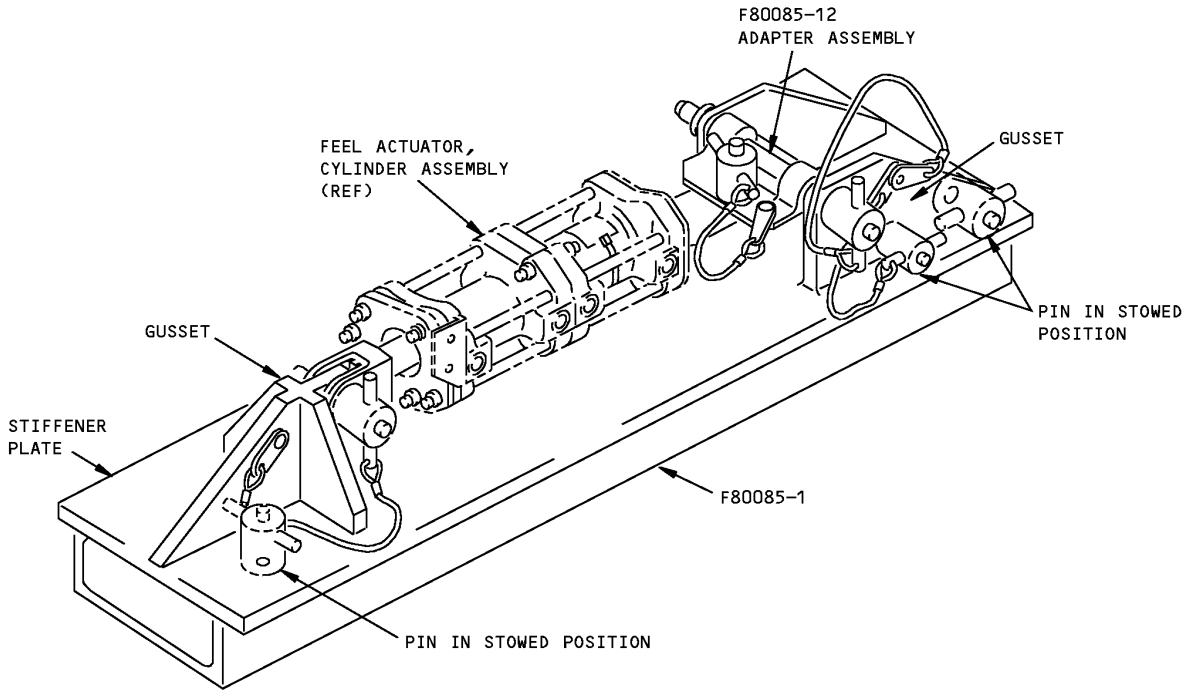
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The F80085-1 fixture plus -12 adapter assembly is used to hold the feel actuator cylinder at a fixed center distance, and to allow the body of the unit to move freely during functional test. The tool consists of steel upright gussets with ball lockpins mounted at each end of the stiffener plate.

WEIGHT: 43 Lbs (20 kg)

DIMENSIONS: 5.5 x 7 x 25 inches (140 x 178 x 635 mm)



Feel Actuator Cylinder Assembly Test Fixture
Figure 1

PART NUMBER: B27060-1

NAME: SPRING REMOVAL/INSTL SET - DECENTERING, ELEVATOR CONTROLS

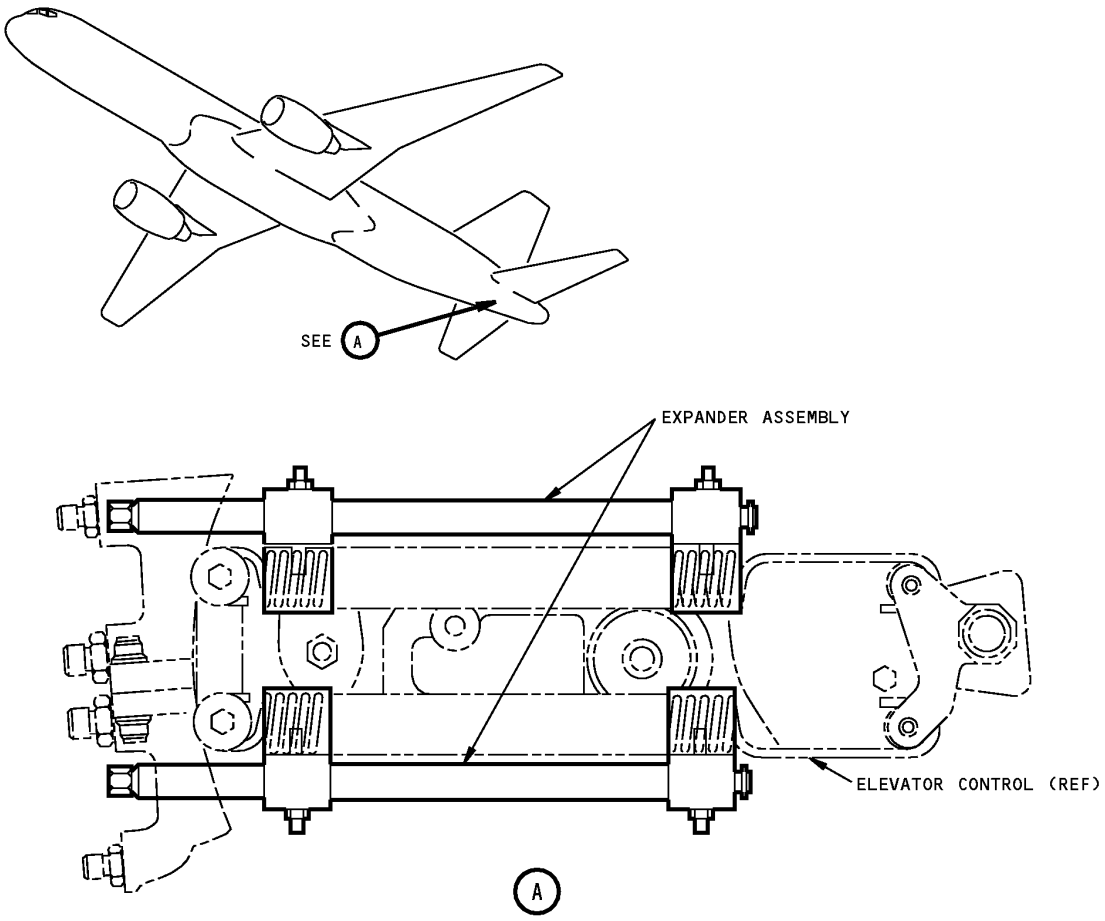
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to remove or install the elevator feel unit decentering springs. The tool consists of two expander assys, which hold the spring during removal and installation. Refer to AMM 27-31-17 for further usage information.

WEIGHT: 10 lbs (4.5 kg)

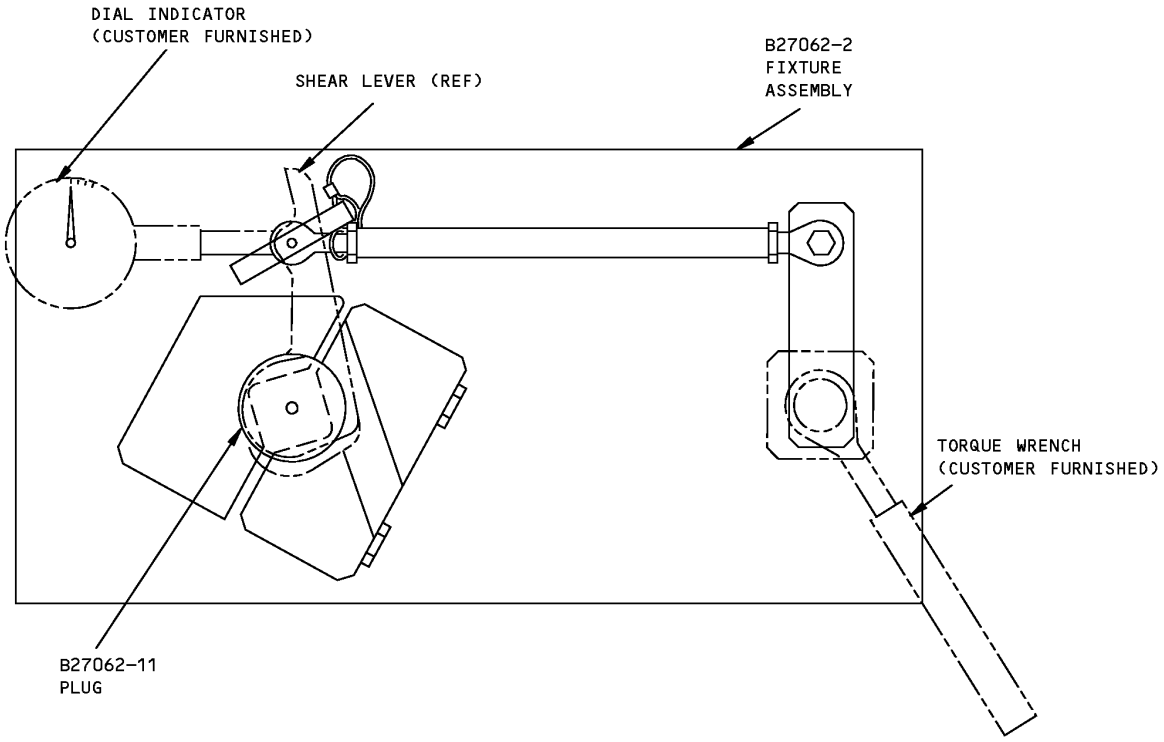
DIMENSIONS: 18 x 12 x 6 inches (457 x 305 x 152 mm) (with storage box)



Elevator Controls Decentering Spring Removal/Installation Set
Figure 1

PART NUMBER: B27062-1

NAME:	TEST FIXTURE - SHEAR LEVER, ELEVATOR PCU
AIRPLANE MAINTENANCE:	NO
COMPONENT MAINTENANCE:	YES
USAGE & DESCRIPTION:	The tool is used to hold the shear lever assembly while performing hysteresis check. The tool consists of a fixture assembly, plug, and box assembly. Refer to CMM 27-31-04 for further usage information.
WEIGHT:	45 lb (20 kg)
DIMENSIONS:	8 x 14 x 24 inches (203 x 356 x 610 mm)



Elevator PCU Shear Lever Test Fixture
Figure 1

PART NUMBER: B27061-1

NAME: TEST BOX - RUDDER/ELEVATOR PCU MONITOR SYSTEM

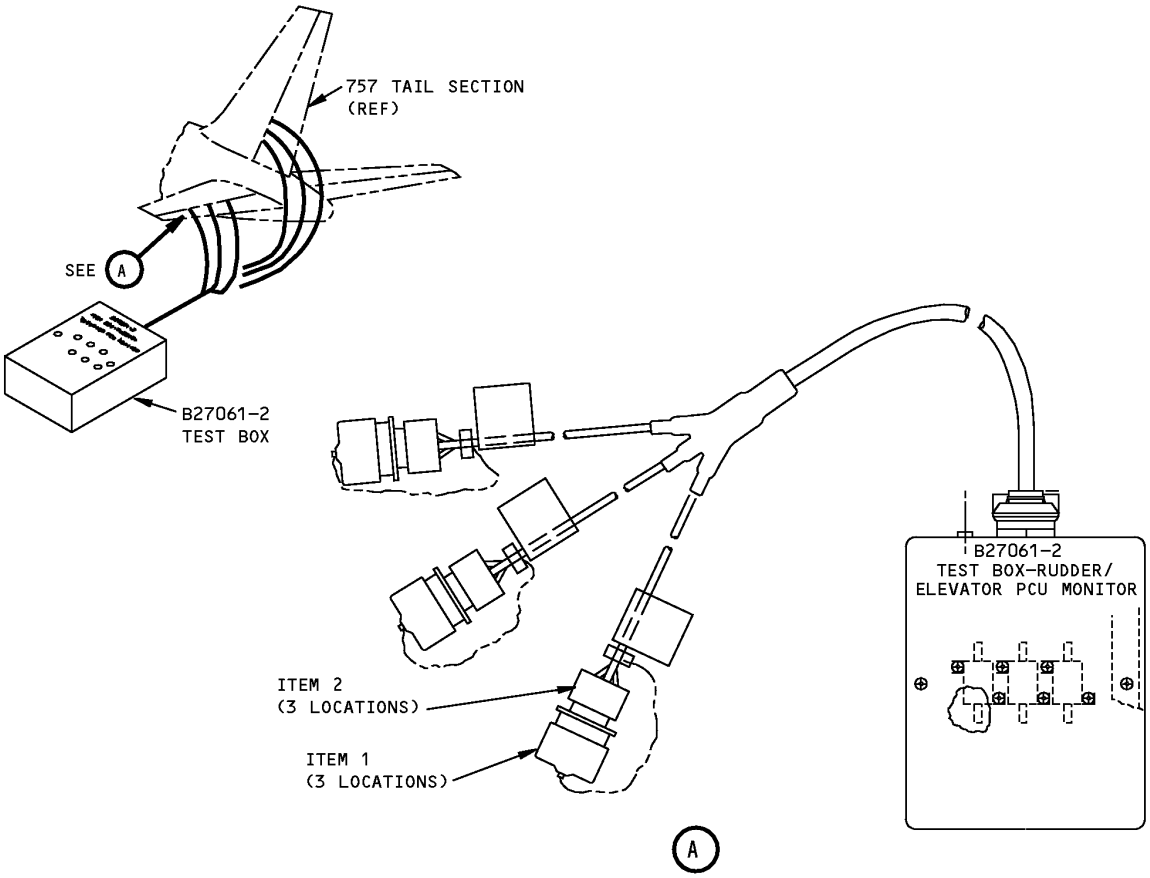
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The test box is used to simulate PCU monitor sensors during test of the rudder/elevator PCU monitor system per Maintenance Manual procedures. Refer to AMM 27-21-00 and 27-31-00 for further usage instructions.

WEIGHT: 3 lb (1.4 kg)

DIMENSIONS: 12 x 8 x 6 inches (305 x 203 x 152 mm)

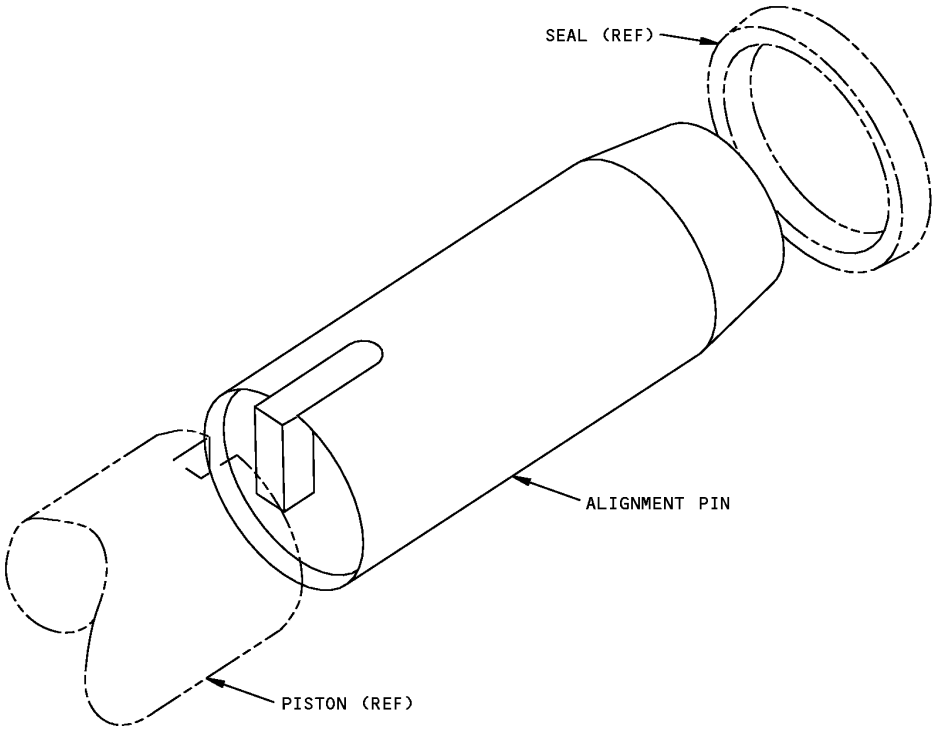


Rudder/Elevator PCU Monitor System Test Box
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	M83723/60-112AC	CAP	
2	M83723/83R123N	CONNECTOR	

PART NUMBER: B27070-1

NAME:	ALIGNMENT PIN - FEEL ACTUATOR PISTON
AIRPLANE MAINTENANCE:	NO
COMPONENT MAINTENANCE:	YES
USAGE & DESCRIPTION:	Use to align piston during installation of seals in feel actuator assemblies. This tool consists of a B27070-2 pin assembly located in a B27070-5 box assembly. Refer to CMM 27-31-15 for further usage information.
WEIGHT:	1.5 lbs (0.7 kg) (excluding box)
DIMENSIONS:	1 x 1 x 2 inches (25 x 25 x 51 mm) (excluding box)



Feel Actuator Piston Alignment Pin
Figure 1

PART NUMBER: B27068-1

NAME: TEST EQUIPMENT - ELEVATOR CONTROL NEUTRAL SHIFT SPRING

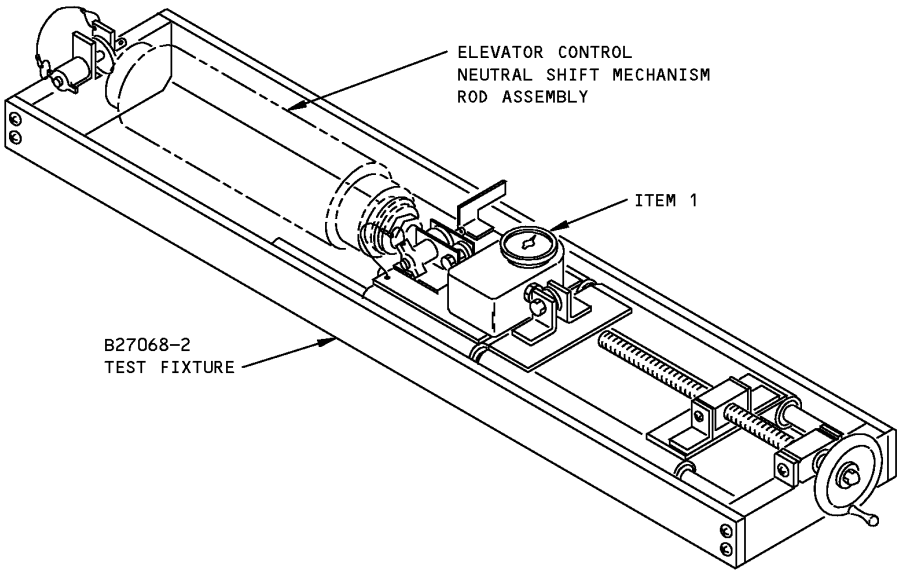
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This test equipment is used to measure compression/extension forces of the neutral shift spring. It consists of a fixture assembly, a dial indicator, a gage, a clamp, and a storage box. Refer to CMM 27-31-34 for further usage information.

WEIGHT: 35 lbs(16 kg)

DIMENSIONS: 5 x 8 x 45 inches (127 x 203 x 1143 mm)



Elevator Control Neutral Shift Spring Test Equipment
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	816101-1	GAGE	

PART NUMBER: B27071-34, -51

NAME: TEST BOX - ELEVATOR HARDOVER TEST

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27071 Elevator Hardover Test Box is used on all 757 model airplanes. This test box is used in the elevator hardover test to control an auto pilot control servo. This is accomplished by attaching the test box cable to the servo. The test box then provides the necessary signals to the servo instead of a flight control computer (FCC). The hardover test using this test box moves the elevator by means of powering one servo at a time. Refer to AMM 27-31-00 for further usage instructions.

The B27071 consists of:

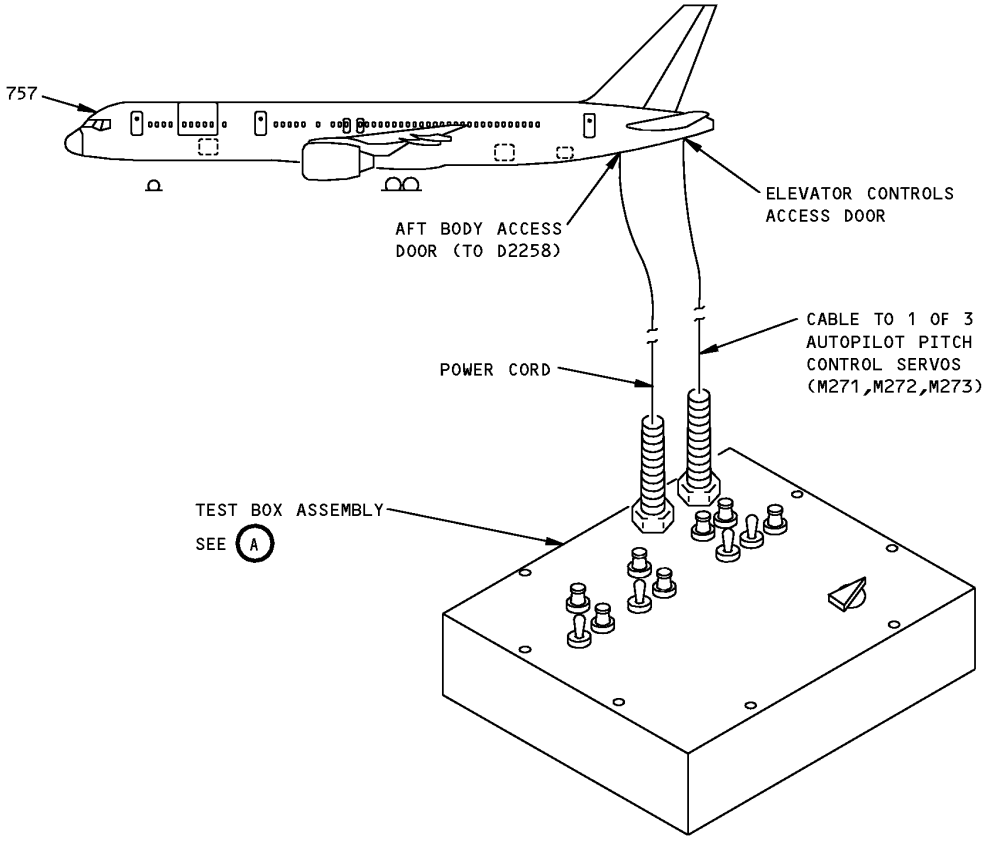
B27071-34		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	TEST BOX ASSEMBLY	B27071-35
1	STORAGE BOX ASSEMBLY	B27071-36

B27071-51		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	TEST BOX ASSEMBLY	B27071-52
1	STORAGE BOX ASSEMBLY	B27071-53

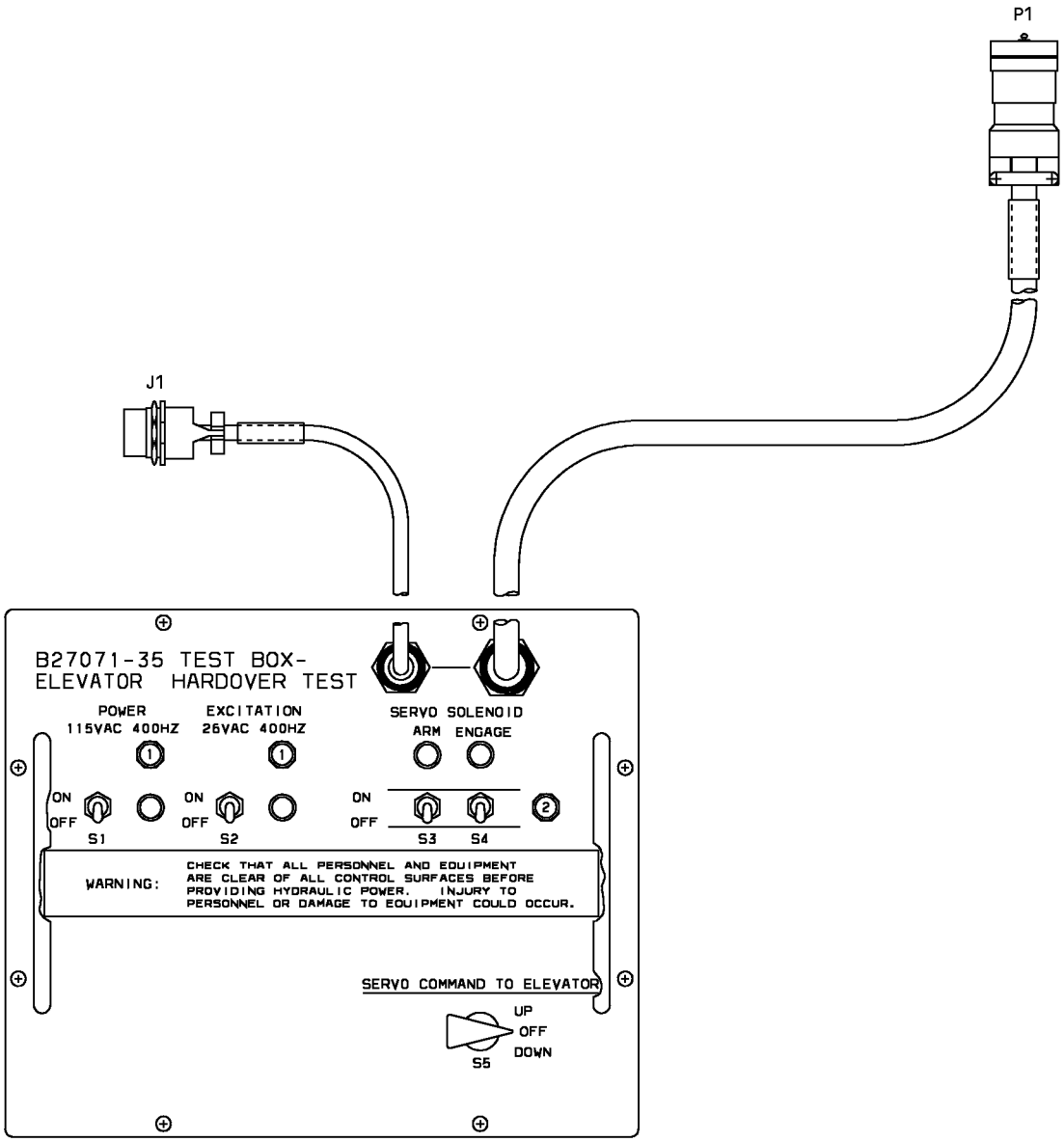
WEIGHT: 5 lbs (2.3 kg)

DIMENSIONS: 5 x 10 x 12 inches (127 x 254 x 305 mm)

NOTE: B27071-34 supersedes B27071-18 and B27071-1.
B27071-51 replaces B27071-34 for future procurement.



Elevator Hardover Test Box
Figure 1 (Sheet 1 of 2)



TEST BOX ASSEMBLY
A

Elevator Hardover Test Box
Figure 1 (Sheet 2 of 2)

PART NUMBER: A27113-1

NAME: CHECK EQUIPMENT - BREAKOUT TORQUE, ELEVATOR CONTROLS OVERRIDE

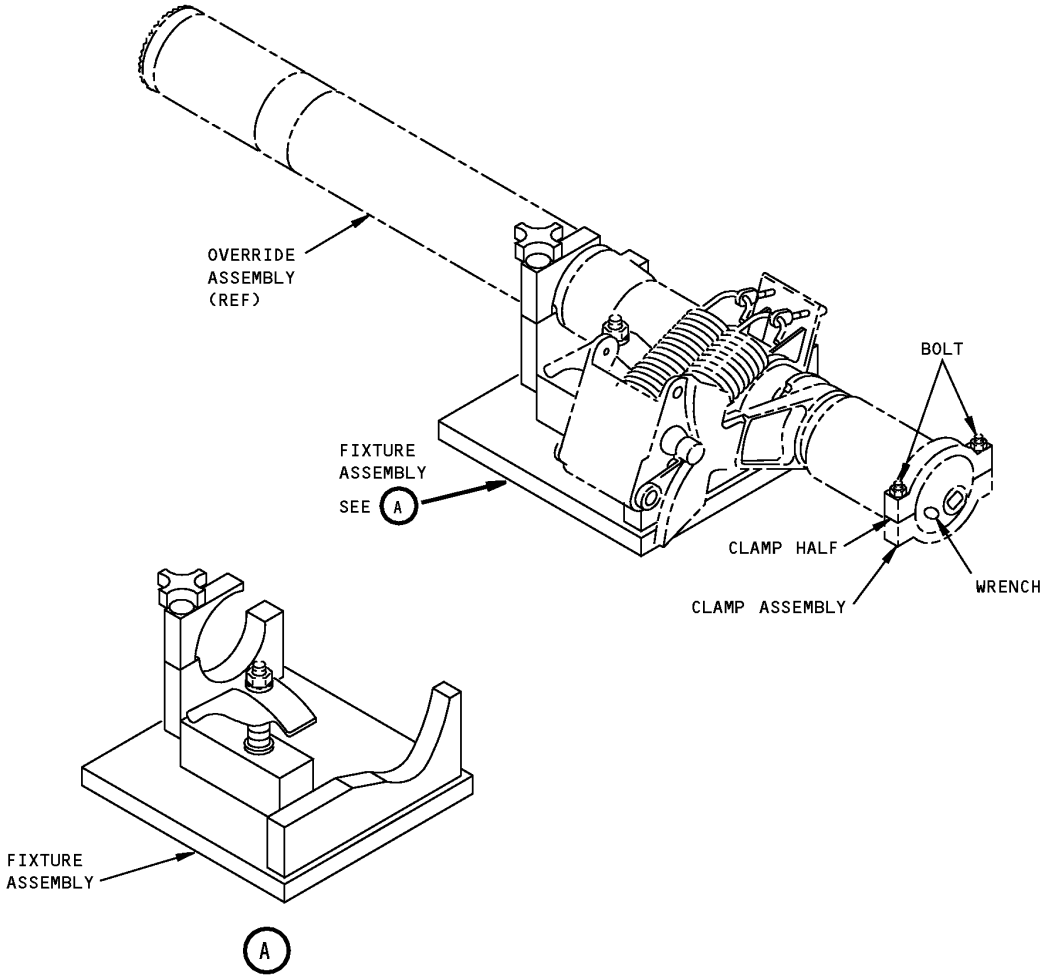
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to hold or clamp the override assembly while the override torque is being checked. Refer to CMM 27-31-35 for further usage instructions. This tool consists of a A27113-2 fixture assembly, a A27113-3 clamp assembly, a A27113-4 clamp half, a A27113-5 wrench, two NAS6604-12 bolts and a storage box assembly.

WEIGHT: 26 lbs (12 kg)

DIMENSIONS: 7 x 9 x 9 inches (178 x 229 x 229 mm)



Breakout Torque Elevator Controls Override Check Equipment
Figure 1

PART NUMBER: A27092-84, -106,

NAME: ACTUATOR/DEACTUATOR SET - PROXIMITY SENSORS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: Either the A27092-84 or A27092-106 (preferred) actuator/deactuator set are used on all 757 airplanes. A27092 is used to actuate or deactuate 10-61226, S283T006 or 60B40018 specification proximity sensors during sensor test procedures. The actuator assembly switches "on" proximity sensors, the deactuator set switches them "off". A27092 is used in the flight controls, indicating recording, landing gear and door systems. Refer to AMM 27-32-00, AMM 31-51-00, AMM 32-09-02, AMM 32-09-07, AMM 32-42-00, AMM 32-61-00, AMM 32-61-02, AMM 34-16-00 and the current A27092 drawing for complete instructions. A27092-84 and -106 consist of:

A27092-84		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	ACTUATOR ASSEMBLY	A27092-26
1	ACTUATOR ASSEMBLY	A27092-27
1	ACTUATOR ASSEMBLY	A27092-29
4	ACTUATOR ASSEMBLY	A27092-31
4	DEACTUATOR ASSEMBLY	A27092-32
4	ACTUATOR ASSEMBLY	A27092-33
4	DEACTUATOR ASSEMBLY	A27092-34
1	DEACTUATOR ASSEMBLY	A27092-62
1	DEACTUATOR ASSEMBLY	A27092-63
1	DEACTUATOR ASSEMBLY	A27092-64
4	ACTUATOR (MAGNET) ASSEMBLY	A27092-85
1	STORAGE BOX	

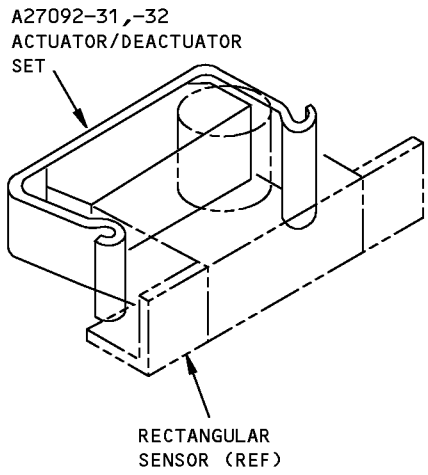
A27092-106		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	ACTUATOR ASSEMBLY	A27092-26
1	ACTUATOR ASSEMBLY	A27092-27
1	ACTUATOR ASSEMBLY	A27092-29
10	ACTUATOR ASSEMBLY	A27092-31
10	DEACTUATOR ASSEMBLY	A27092-32

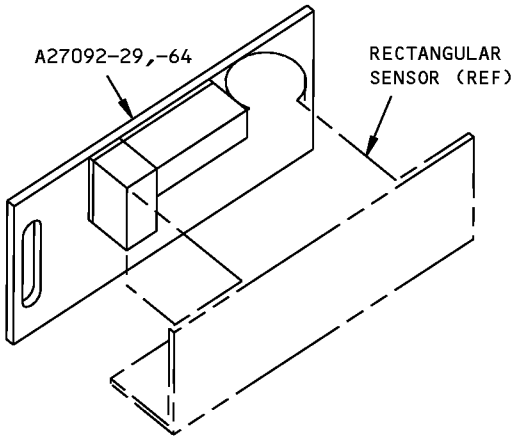
A27092-106		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
4	ACTUATOR ASSEMBLY	A27092-33
4	DEACTUATOR ASSEMBLY	A27092-34
1	DEACTUATOR ASSEMBLY	A27092-62
1	DEACTUATOR ASSEMBLY	A27092-63
6	DEACTUATOR ASSEMBLY	A27092-64
4	ACTUATOR (MAGNET) ASSEMBLY	A27092-85
1	STORAGE BOX	

WEIGHT: A27092-106 - 15 lbs (7 kg)
A27092-84 - 10 lbs (4.5 kg)

DIMENSIONS: 6 x 20 x 20 inches, (152 x 508 x 508 mm)

NOTE: A27092-106 replaces A27092-84 for future procurement.
A27092-84 supersedes A27092-61.
A27092 replaces G32002 for future procurement.





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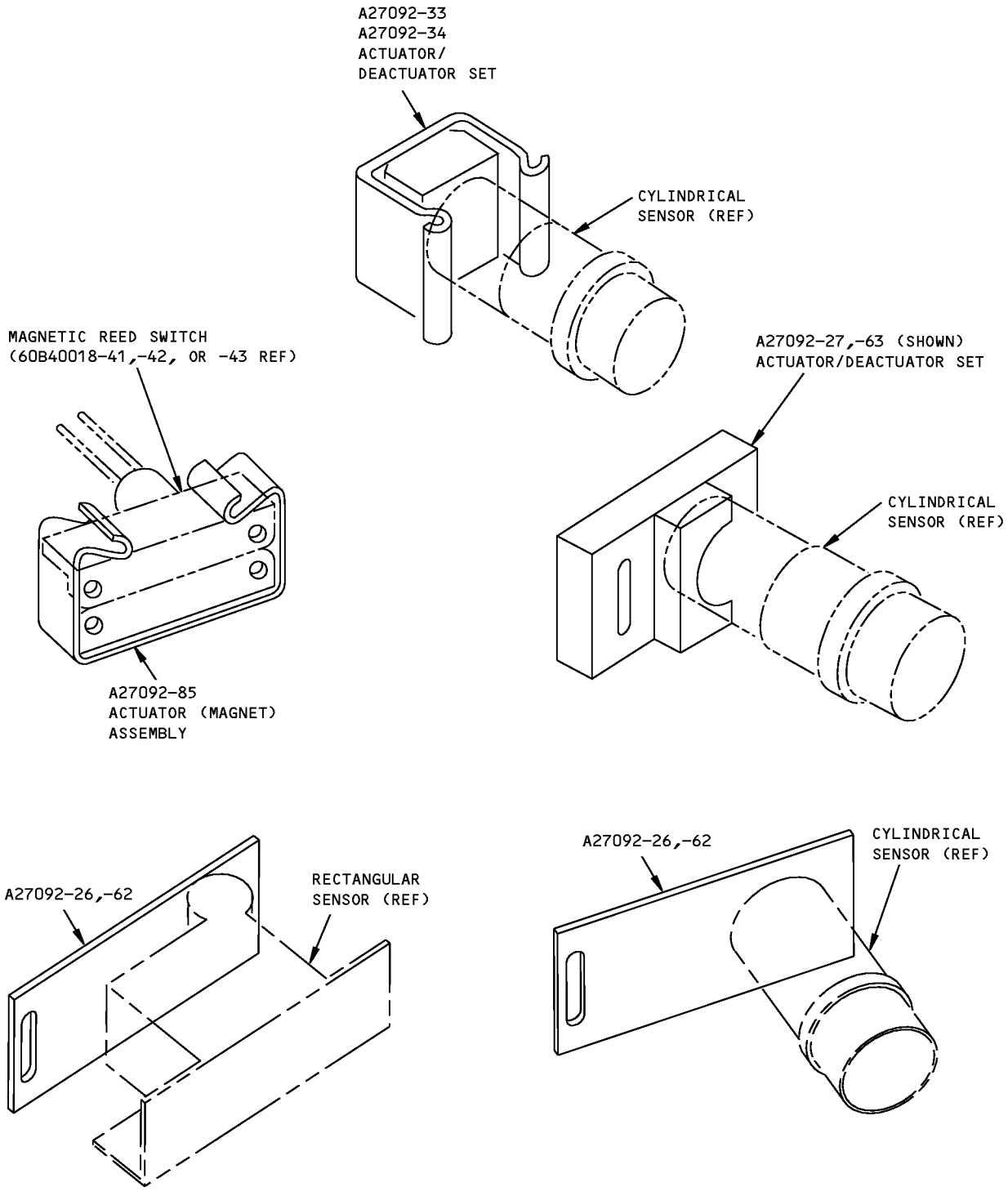
Proximity Sensors Actuator/Deactuator Set
Figure 1 (Sheet 1 of 2)



Proximity Sensors Actuator/Deactuator Set
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27069-1

NAME: SOCKET SET - SLEEVE RETAINER NUT, HORIZONTAL STABILIZER, FIXED TRAILING EDGE

AIRPLANE MAINTENANCE: YES

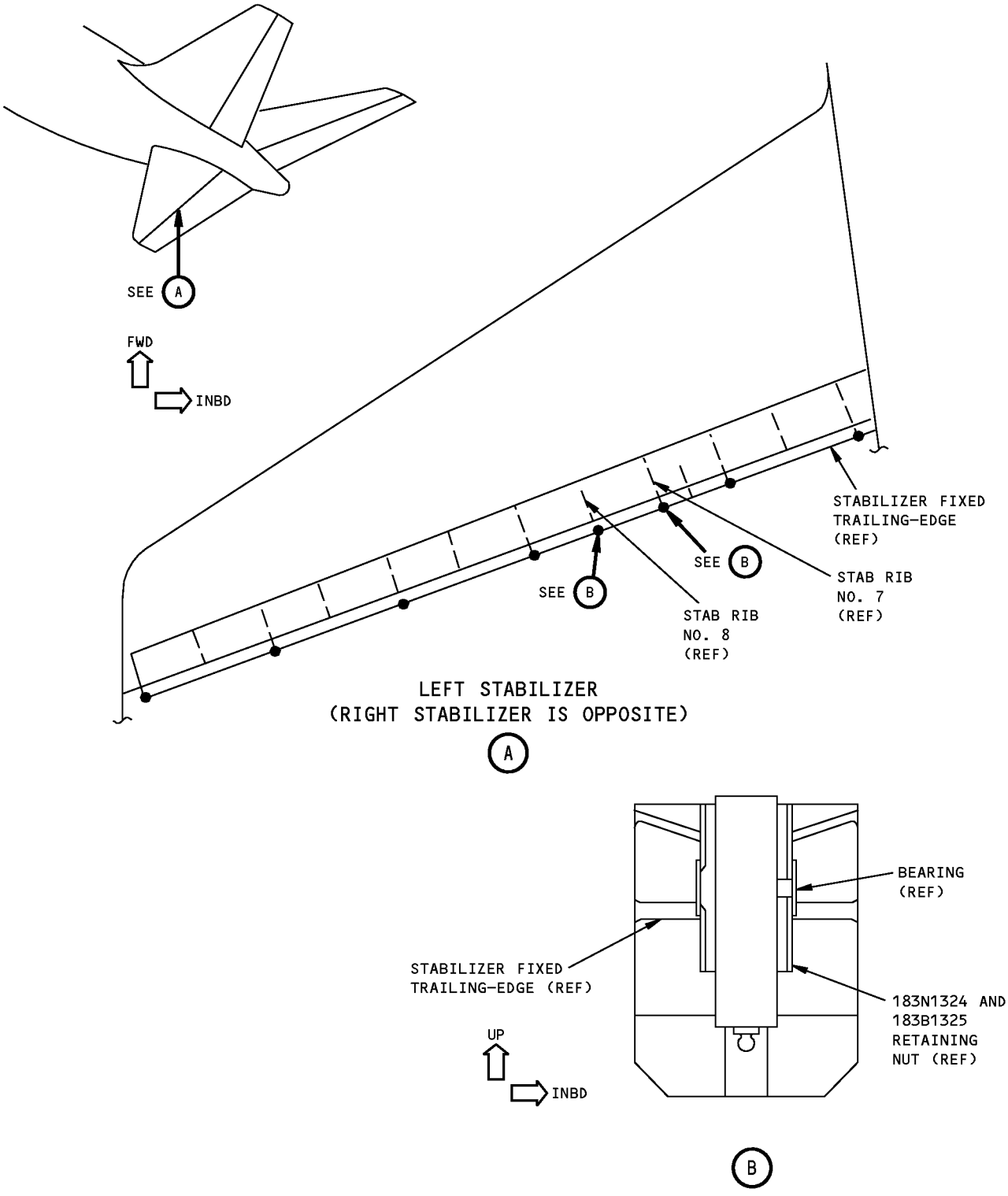
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27069-1 socket set is used on all 757 airplanes. B27069 is used in conjunction with a customer-furnished 3/4-inch drive wrench. B27069 is used to remove the 183N1324 and 183N1325 retaining nuts during replacement of the elevator trailing edge bearings. Refer to AMM 27-31-01 for complete usage instructions. B27069-1 consists of:

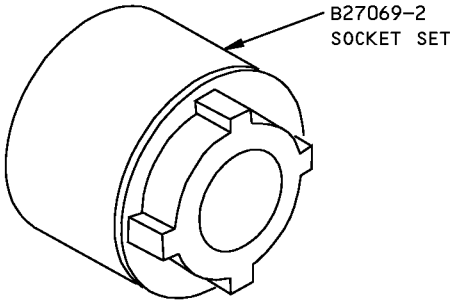
B27069-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	SOCKET	B27069-2
1	SOCKET	B27069-3
1	STORAGE BOX	

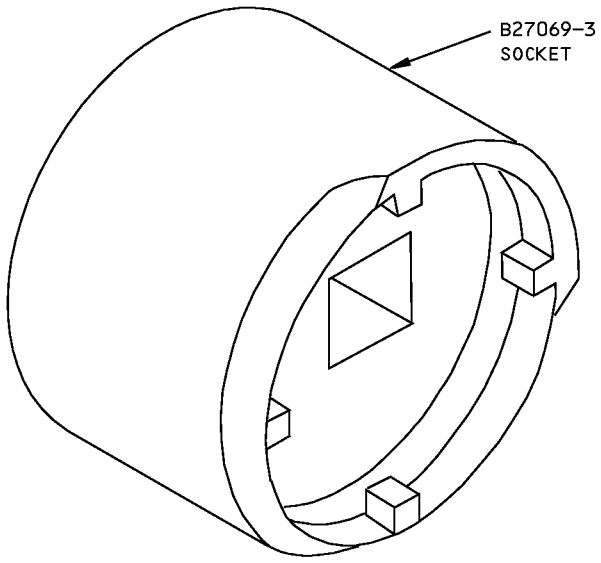
WEIGHT: 7 lbs (3.2 kg)

DIMENSIONS: 3 x 4 x 5 inches (76 x 102 x 127 mm)



Horizontal Stabilizer, Fixed Trailing Edge, Sleeve Retainer Nut Socket Set
Figure 1 (Sheet 1 of 2)





Horizontal Stabilizer, Fixed Trailing Edge, Sleeve Retainer Nut Socket Set
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27011-79

NAME: INSTALLATION/REMOVAL EQUIPMENT - HORIZONTAL STABILIZER JACKSCREW

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27011-79 installation/removal equipment is used on all 757 airplanes.

B27011-79 contains B27011-85 support equipment. B27011-85 is an adjustable beam assembly that locks into the airplane structure to support the horizontal stabilizer.

B27011-79 also contains B27011-84 sling equipment. B27011-84 is used to remove or install the stabilizer ballscrew actuator. The B27011-84 sling equipment is used in conjunction with a customer-furnished fishpole hoist to remove or install the stabilizer ballscrew actuator.

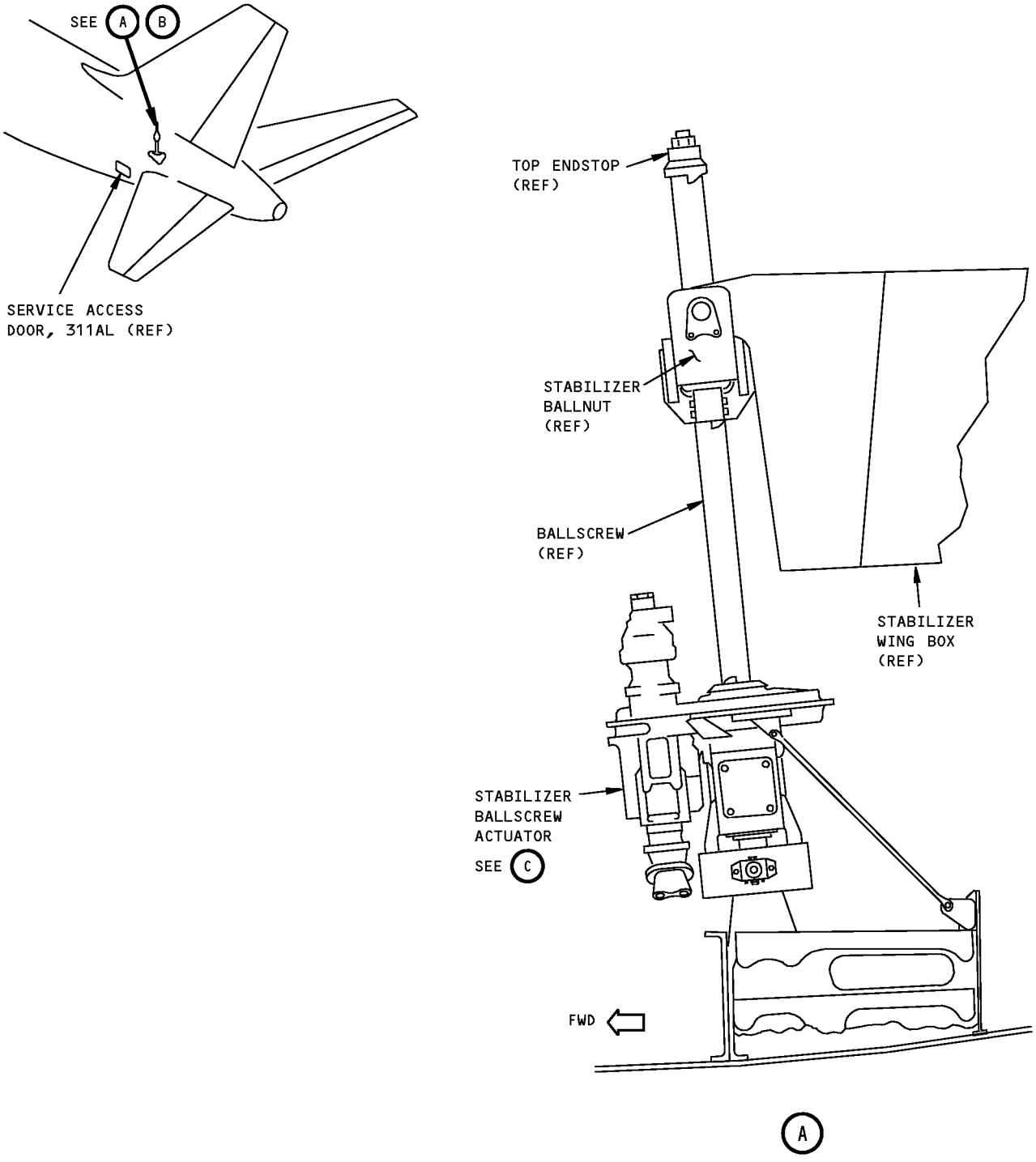
Refer to AMM 27-41-10 and AMM 27-41-14 for complete usage instructions.

B27011-79 consists of B27011-84 sling equipment contained in storage box one and B27011-85 support equipment contained in storage box two.

WEIGHT: 80 lbs (36 kg)

DIMENSIONS: B27011-84 - 12 x 26 x 26 inches (305 x 660 x 660 mm)
B27011-85 - 12 x 12 x 48 inches (305 x 305 x 1219 mm)

NOTE: B27011-79 supersedes B27011-28.



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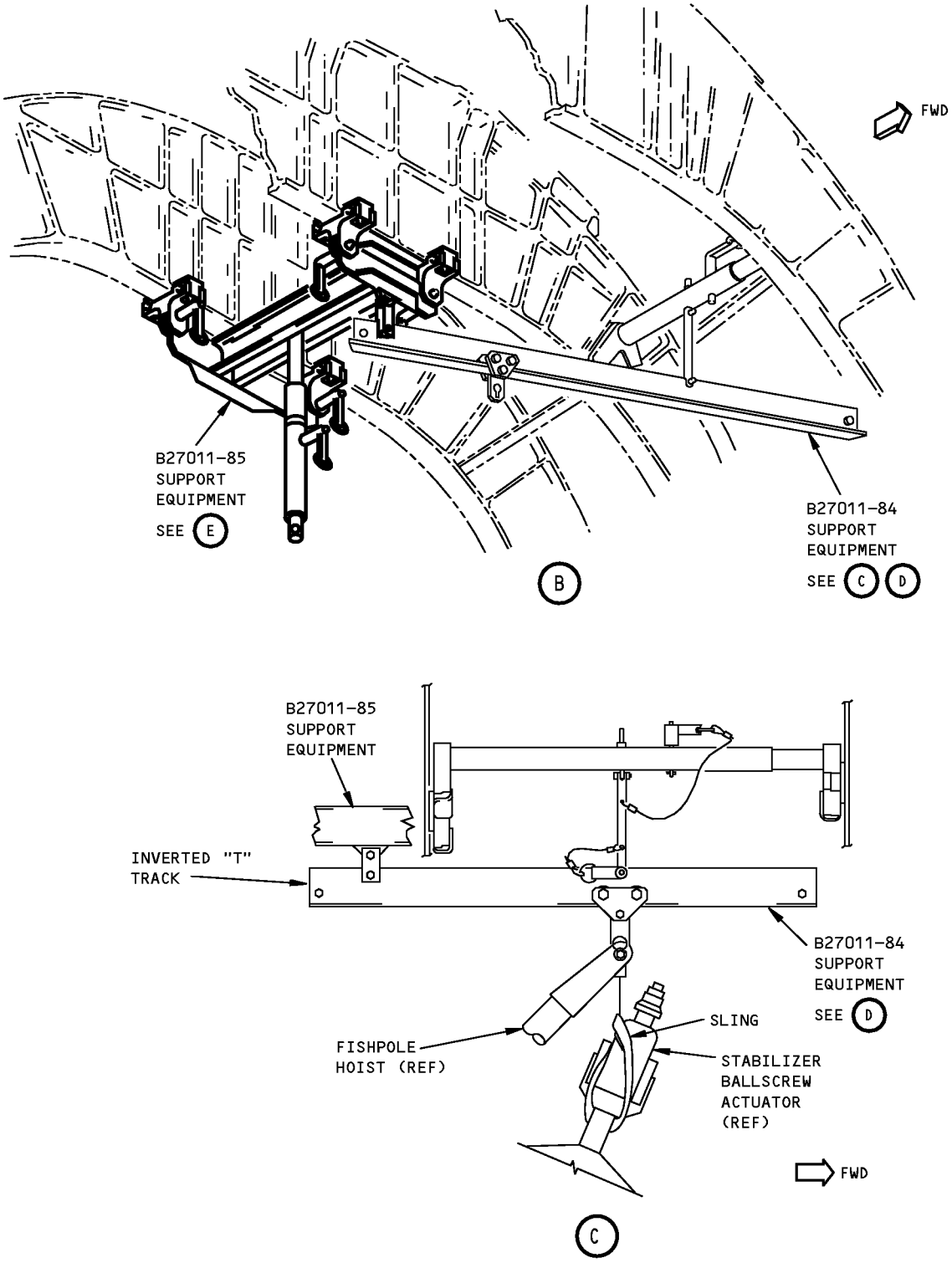
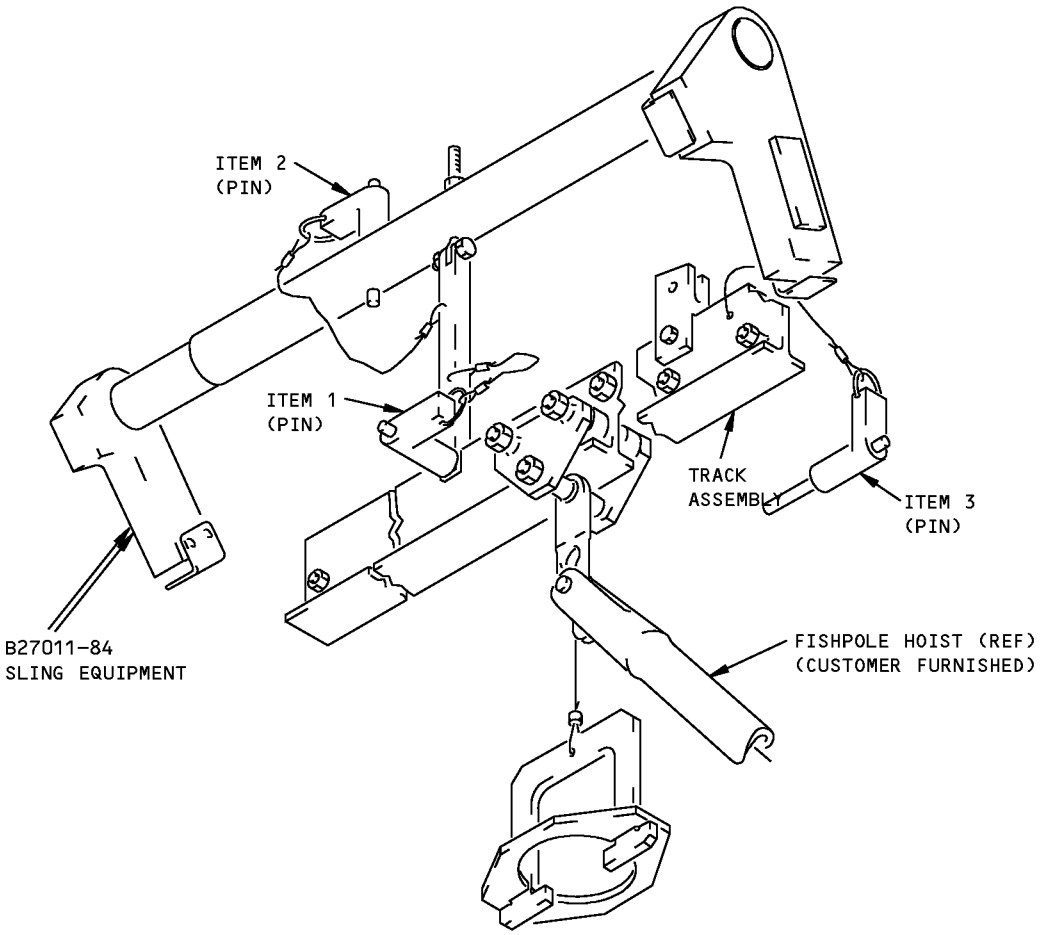
Horizontal Stabilizer Jackscrew Installation/Removal Equipment
Figure 1 (Sheet 1 of 4)



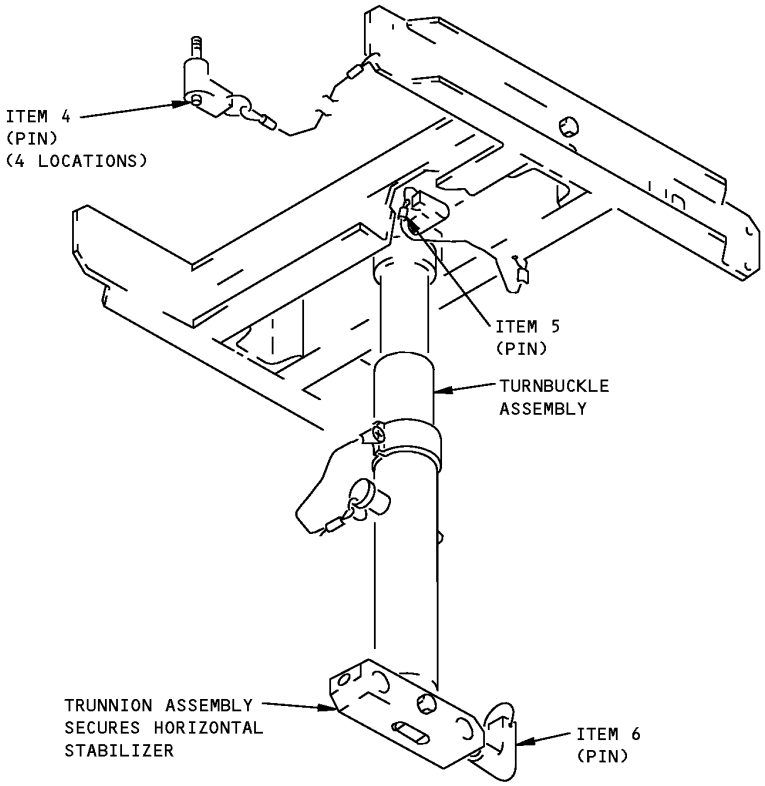
Horizontal Stabilizer Jackscrew Installation/Removal Equipment
Figure 1 (Sheet 2 of 4)



STABILIZER JACKSCREW REMOVAL/INSTALLATION

D

Horizontal Stabilizer Jackscrew Installation/Removal Equipment
Figure 1 (Sheet 3 of 4)



Horizontal Stabilizer Jackscrew Installation/Removal Equipment
Figure 1 (Sheet 4 of 4)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	NAS1334S5S7D	BALL LOCK PIN	
2	NAS1334S5S16D	BALL LOCK PIN	
3	NAS1336C5C12D	BALL LOCK PIN	
4	NAS1335C5C08D	BALL LOCK PIN	
5	NAS1336C5C16D	BALL LOCK PIN	
6	NAS1336C5C19D	BALL LOCK PIN	

PART NUMBER: B27034-1

NAME: CHECKING EQUIPMENT - JACKSCREW BACKLASH, HORIZONTAL STABILIZER

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27034-1 checking equipment is used on all 757 airplanes.

B27034-1 contains a B27034-6 load assembly. The B27034-6 load assembly is used in conjunction with a customer-furnished B27011 installation/removal equipment to apply a reversing 600 pound load to the horizontal stabilizer structure.

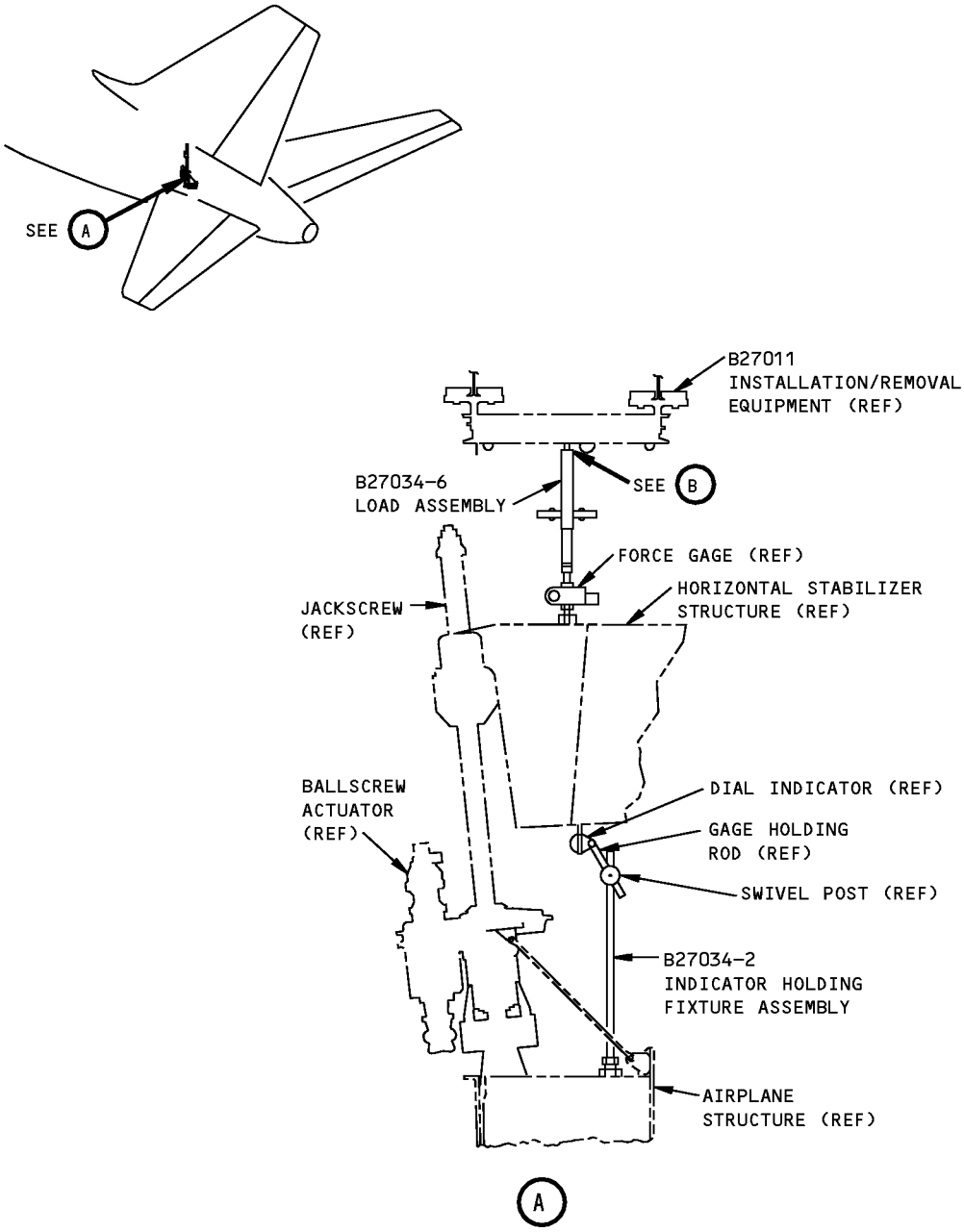
B27034-1 contains a B27034-2 indicator holding fixture assembly. The B27034-2 indicator holding fixture assembly is a dial indicator fixture which mounts to the aircraft structure and measures movement of the horizontal stabilizer when under the 600 pound reversing load. This movement represents the total lash of the horizontal stabilizer trim screw installation.

Refer to AMM 27-41-10 for complete usage instructions. B27034-1 consists of:

B27034-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	INDICATOR HOLDING FIXTURE ASSEMBLY	B27034-2
1	LOAD ASSEMBLY	B27034-6
1	STORAGE BOX	

WEIGHT: 12 lbs (5.4 kg)

DIMENSIONS: 3 x 7 x 26 inches (76 x 178 x 660 mm)



Horizontal Stabilizer Jackscrew Backlash Checking Equipment
Figure 1

PART NUMBER: B27047-1

NAME: PIN PULLER SET - STABILIZER TRIM TRUNNION

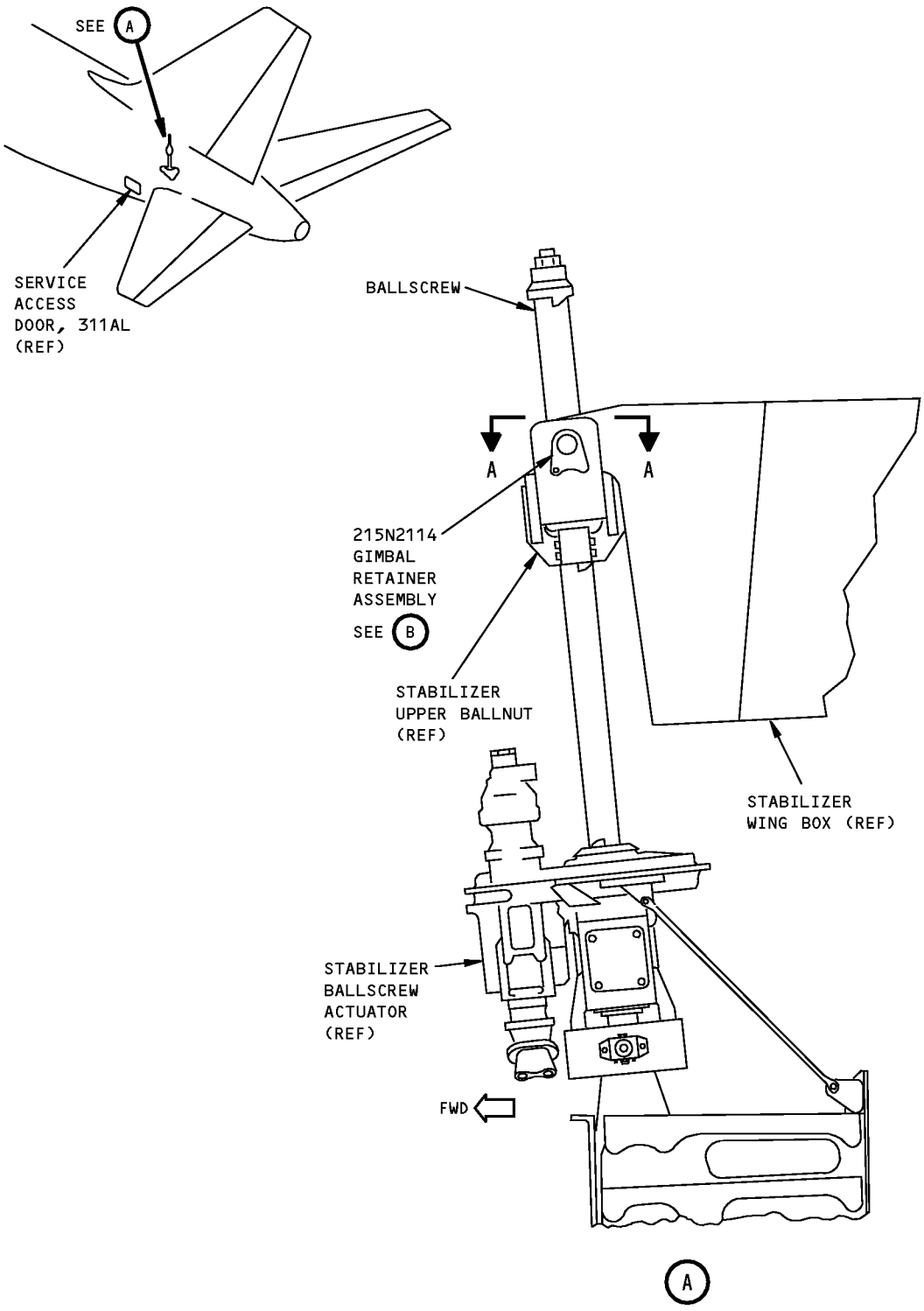
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

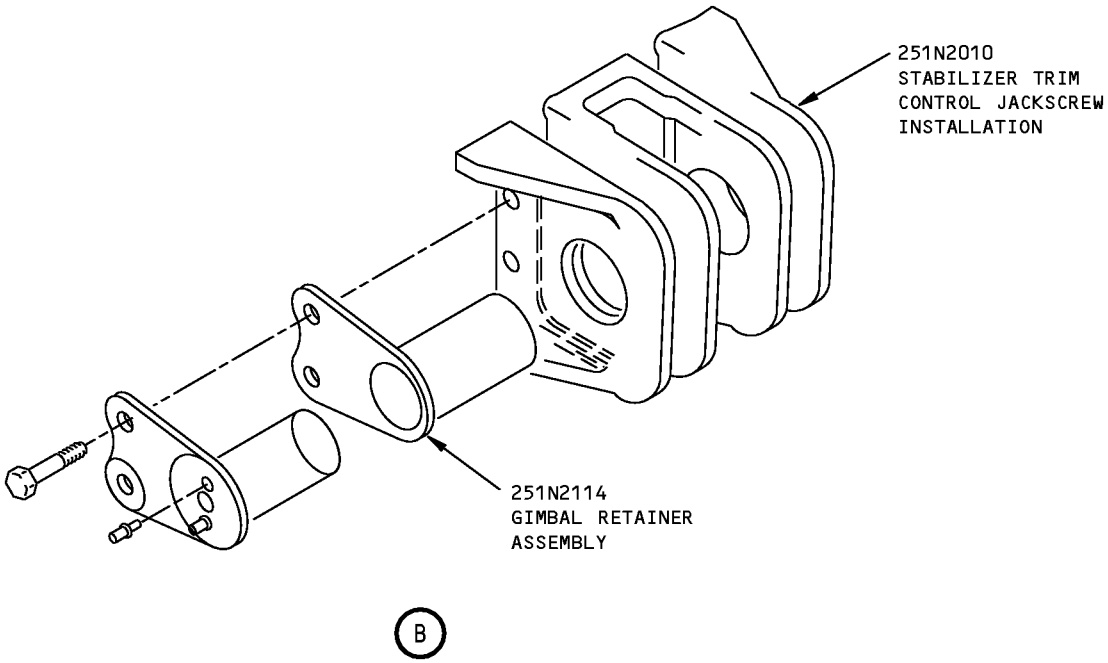
USAGE & DESCRIPTION: The B27047-1 pin puller set is used on all 757 airplanes. B27047 is used in conjunction with a customer-furnished slide hammer to remove the 251N2114 upper gimbal retainer assemblies (upper trunnion pins) during removal of the stabilizer trim actuator. Refer to the current B27047 drawing and AMM 27-41-10 for complete usage instructions. The B27047-1 consists of a B27047-2 spool and B27047-3 retainer, both contained in a storage box.

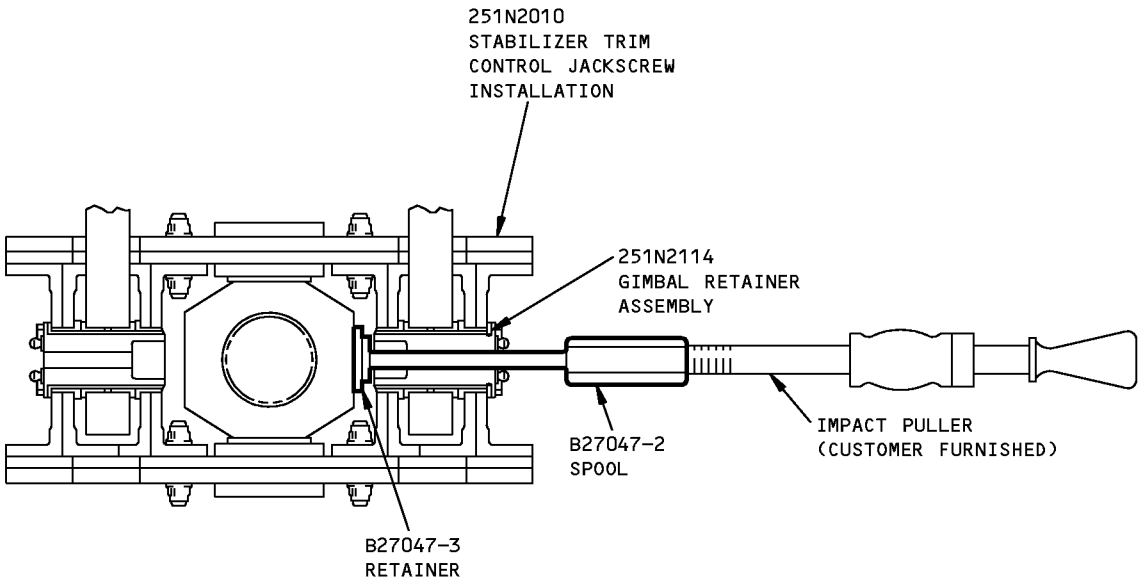
WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 1 x 1 x 7 inches (25 x 25 x 178 mm)



Stabilizer Trim Trunnion Pin Puller Set
Figure 1 (Sheet 1 of 2)





Stabilizer Trim Trunnion Pin Puller Set
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27051-1

NAME: SLEEVE - SEAL PROTECTOR, BULL GEAR, HORIZONTAL STABILIZER TRIM

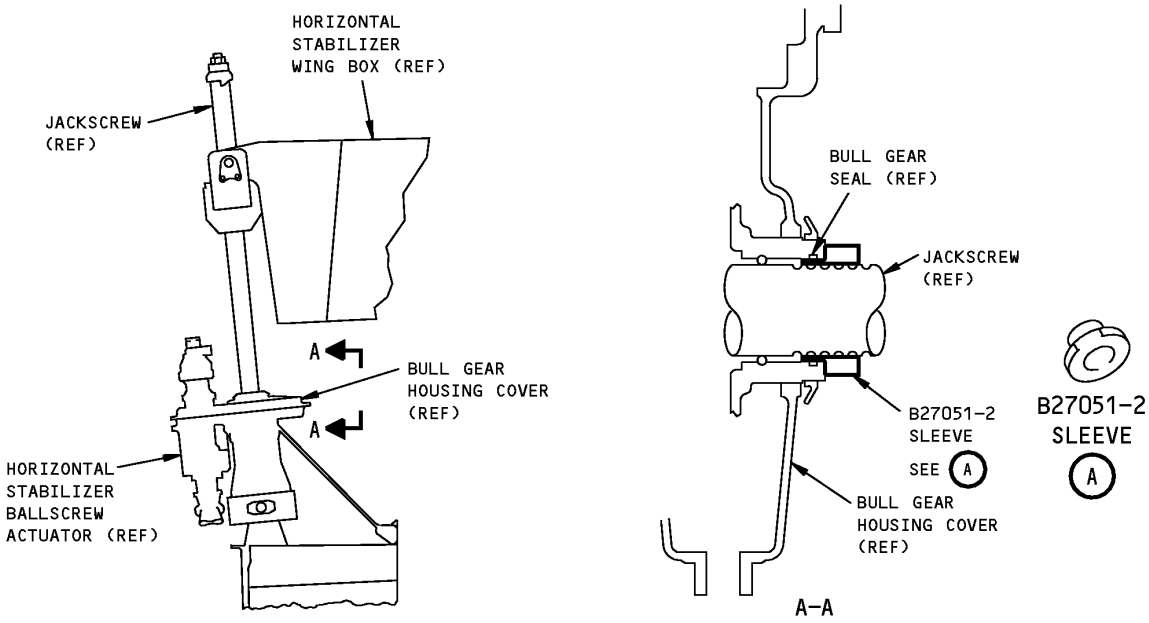
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B27051-1 sleeve is used during component maintenance on all 757 airplanes. B27051 is used to protect the bull gear seal from the horizontal stabilizer jackscrew threads, during bull gear installation. Refer to CMM 27-41-05 for complete usage instructions. B27051-1 consists of a B27051-2 sleeve (made from nickel-aluminum bronze) contained in a storage box.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 1 x 2 inch diameter (25 x 51 mm diameter)



Horizontal Stabilizer Trim Bull Gear Seal Protector Sleeve
Figure 1

PART NUMBER: B27050-28

NAME: TOOL SET - STABILIZER TRIM DRIVE

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

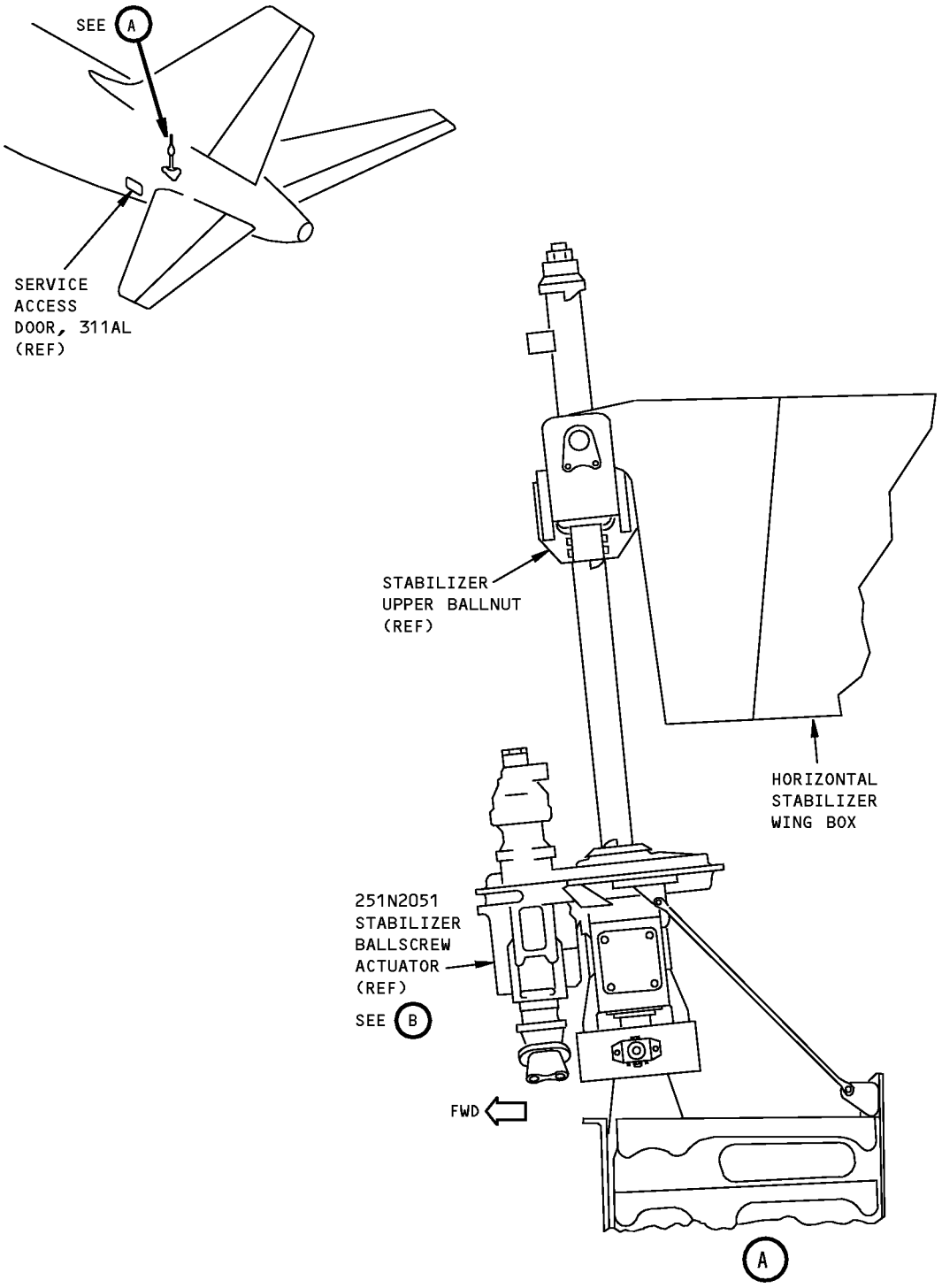
USAGE & DESCRIPTION: The B27050-28 tool set is used during component maintenance on all 757 airplanes. B27050-28 is used for disassembling and assembling the 251N2051 stabilizer trim actuator assembly. Refer to the current B27050 drawing and CMM 27-41-05 for complete usage instructions. B27050-28 consists of:

B27050-28		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	ALIGNMENT PLUG	B27050-2
1	INPUT CRANK ASSEMBLY	B27050-29
1	CLAMP ASSEMBLY	B27050-30
1	STOP ASSEMBLY	B27050-8
1	ROD ASSEMBLY	B27050-9
1	TUBE ASSEMBLY	B27050-10
1	SUPPORT	B27050-11
1	BOLT	NAS551-4
1	ELBOW	NAS552-4
1	GASKET	MS28778-4
1	PACKING	MS28775-011
1	STORAGE BOX	

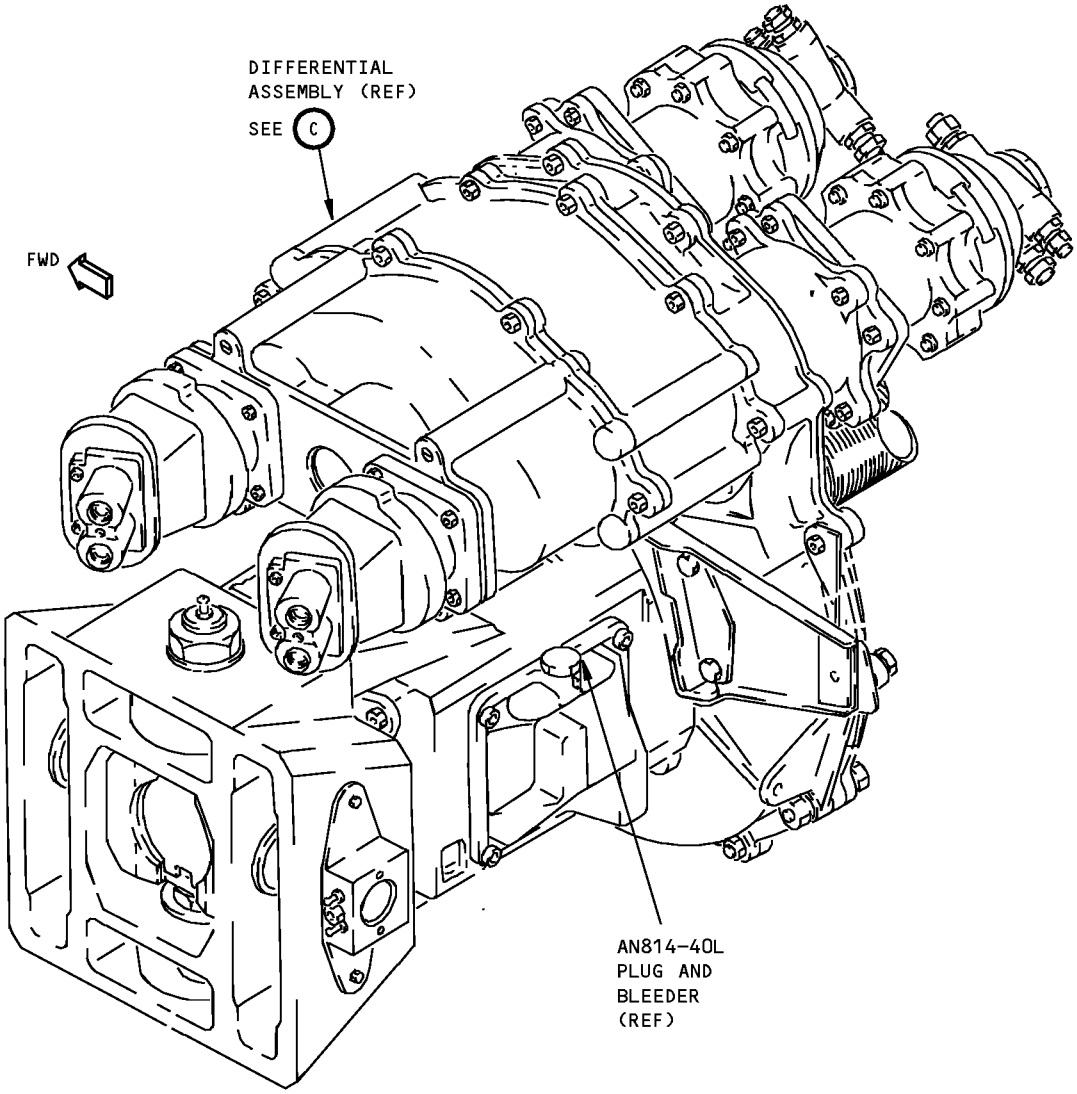
WEIGHT: 20 lbs (9 kg)

DIMENSIONS: 8 x 18 x 20 inches (203 x 457 x 508 mm)

NOTE: B27050-28 supersedes B27050-24.

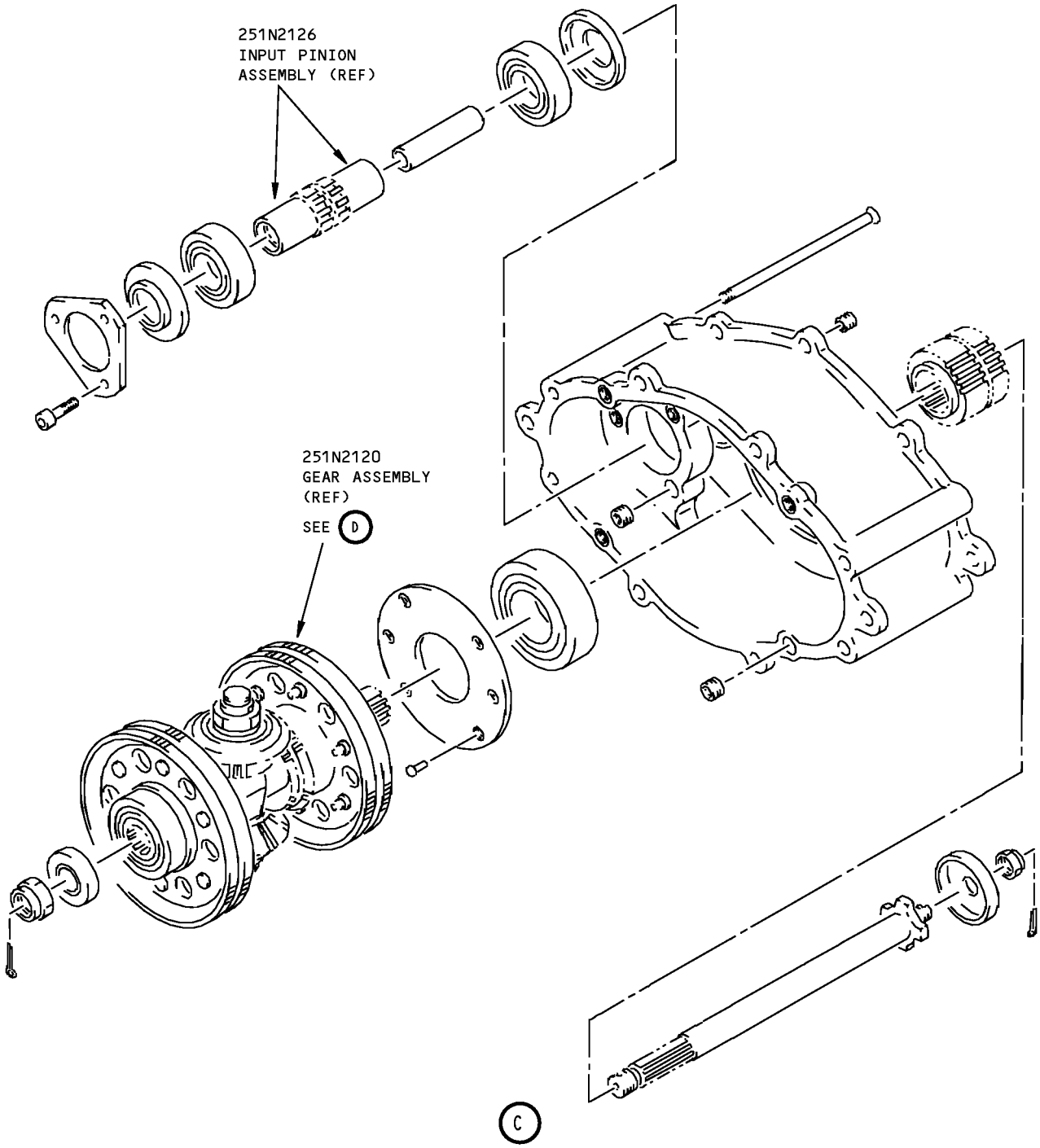


Stabilizer Trim Drive Tool Set
Figure 1 (Sheet 1 of 6)

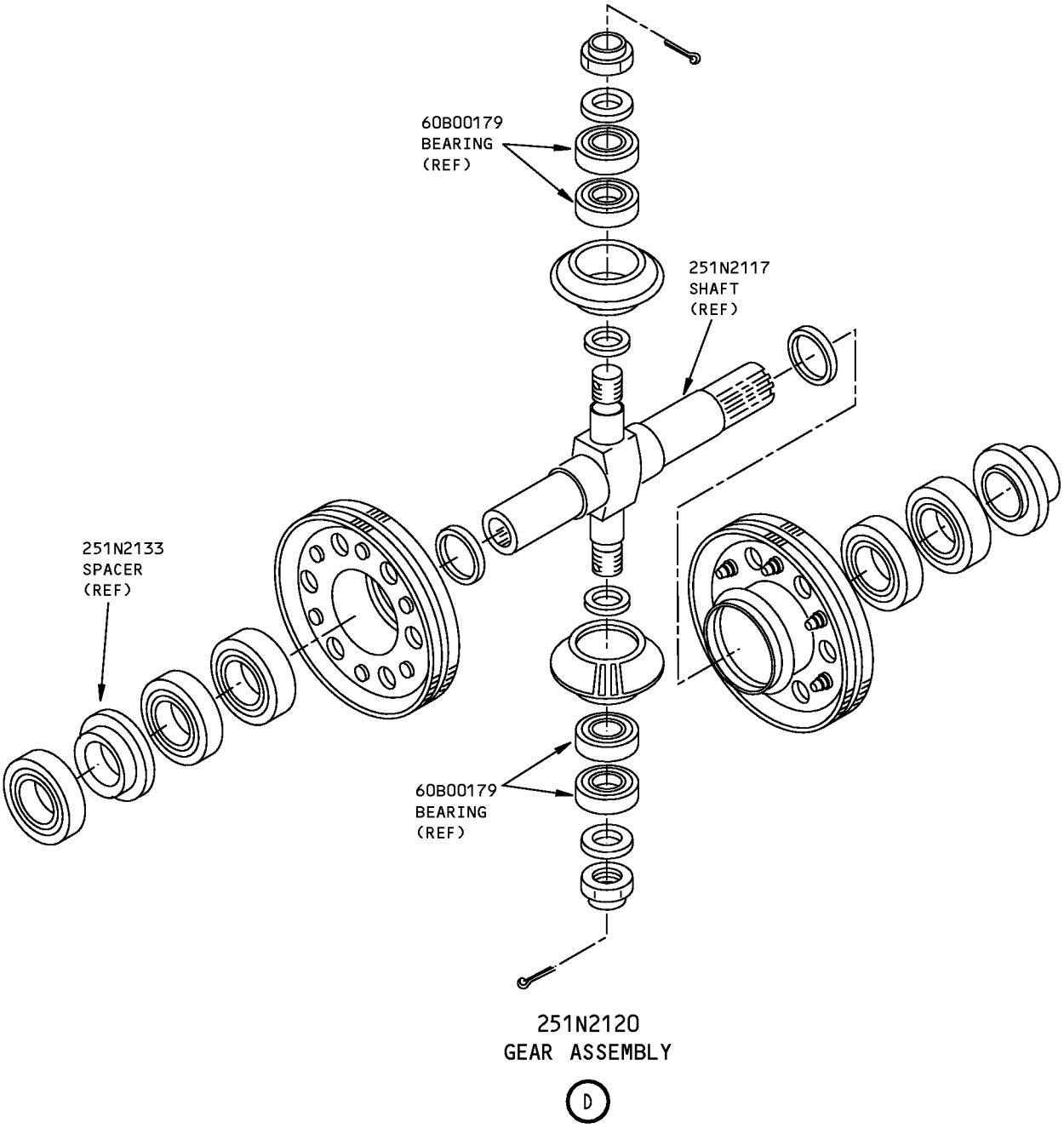


STABILIZER BALLSCREW ACTUATOR
B

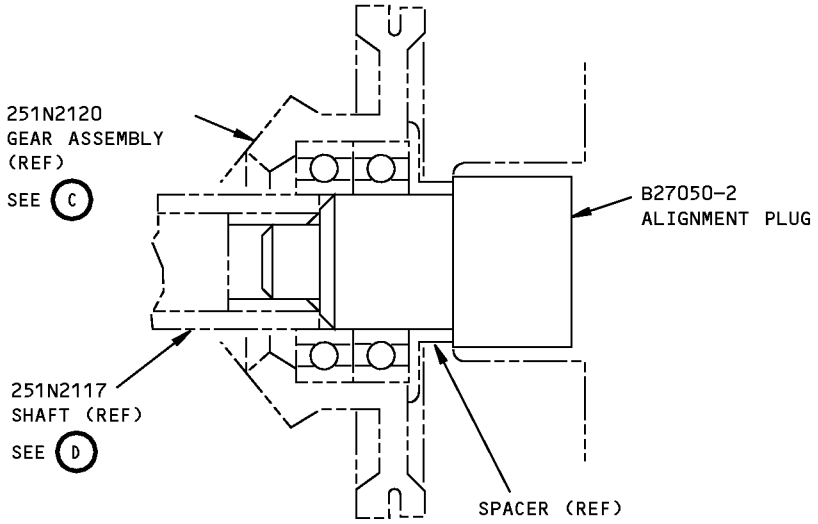
Stabilizer Trim Drive Tool Set
Figure 1 (Sheet 2 of 6)



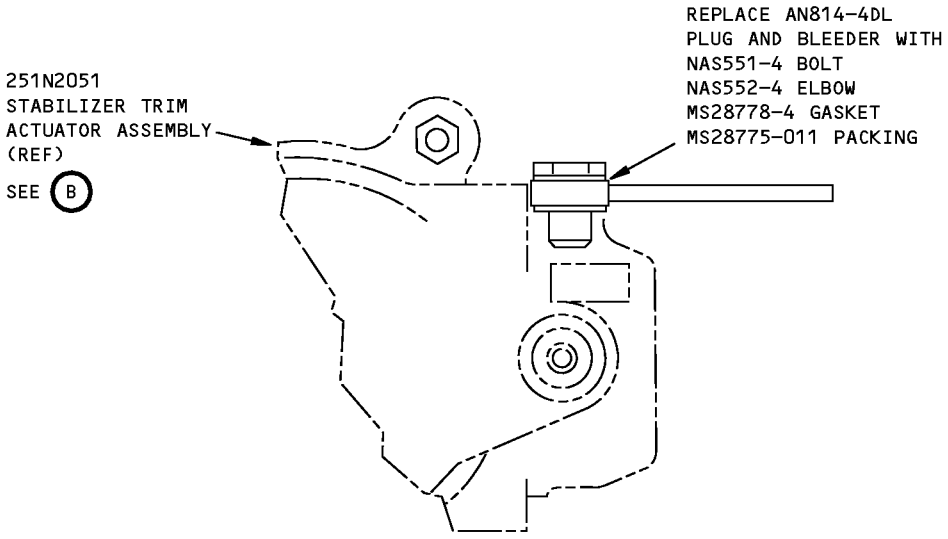
Stabilizer Trim Drive Tool Set
Figure 1 (Sheet 3 of 6)



Stabilizer Trim Drive Tool Set
Figure 1 (Sheet 4 of 6)

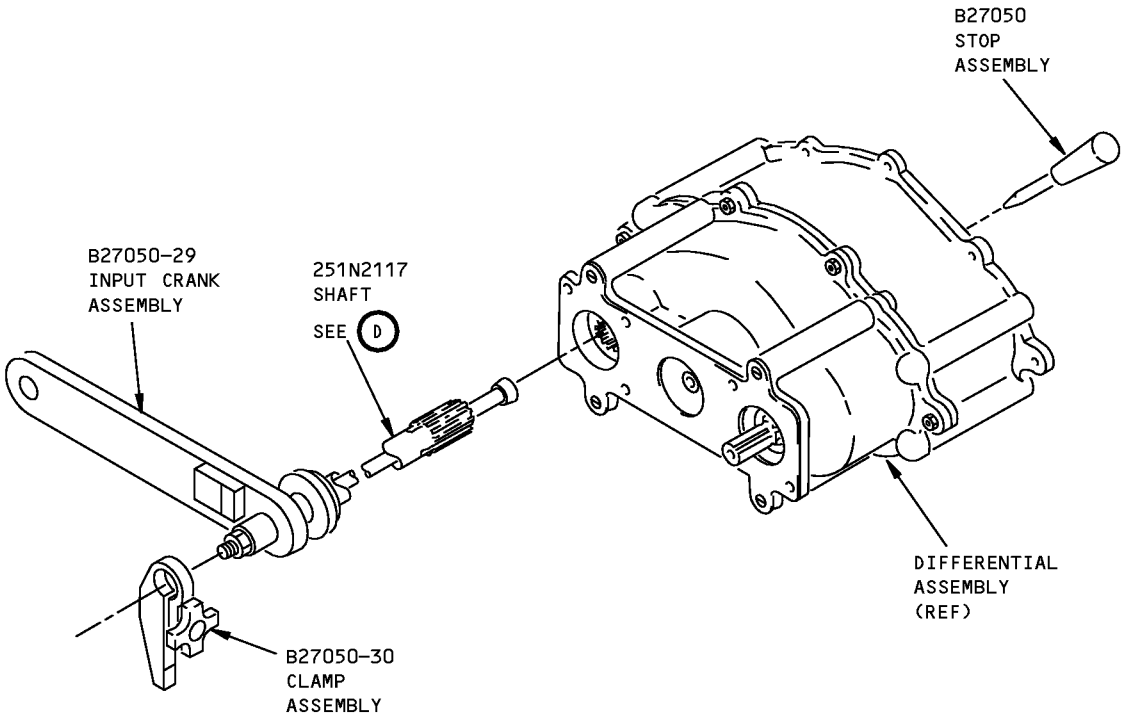


DIFFERENTIAL GEAR ALIGNMENT PLUG

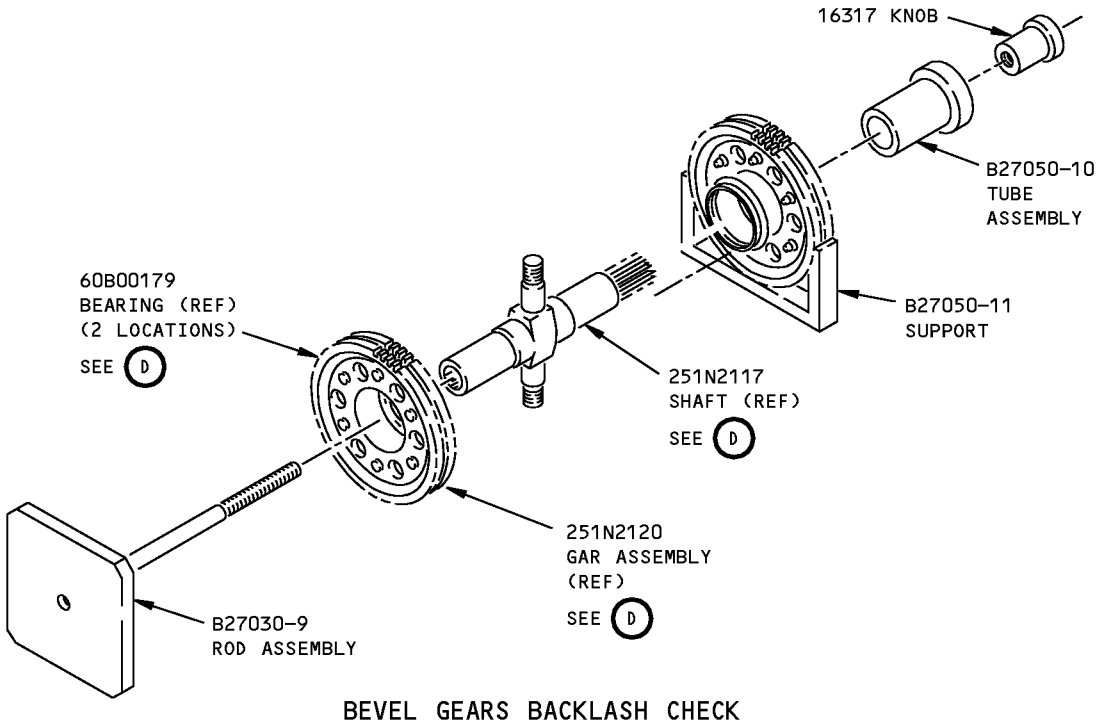


TEST ADAPTER - DRIVE MECHANISM STABLIZER TRIM

Stabilizer Trim Drive Tool Set
Figure 1 (Sheet 5 of 6)



INPUT PINION TO GEAR BACKLASH CHECK



BEVEL GEARS BACKLASH CHECK

Stabilizer Trim Drive Tool Set
Figure 1 (Sheet 6 of 6)

PART NUMBER: B27052-70

NAME: TEST EQUIPMENT - STABILIZER TRIM DRIVE MECHANISM

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

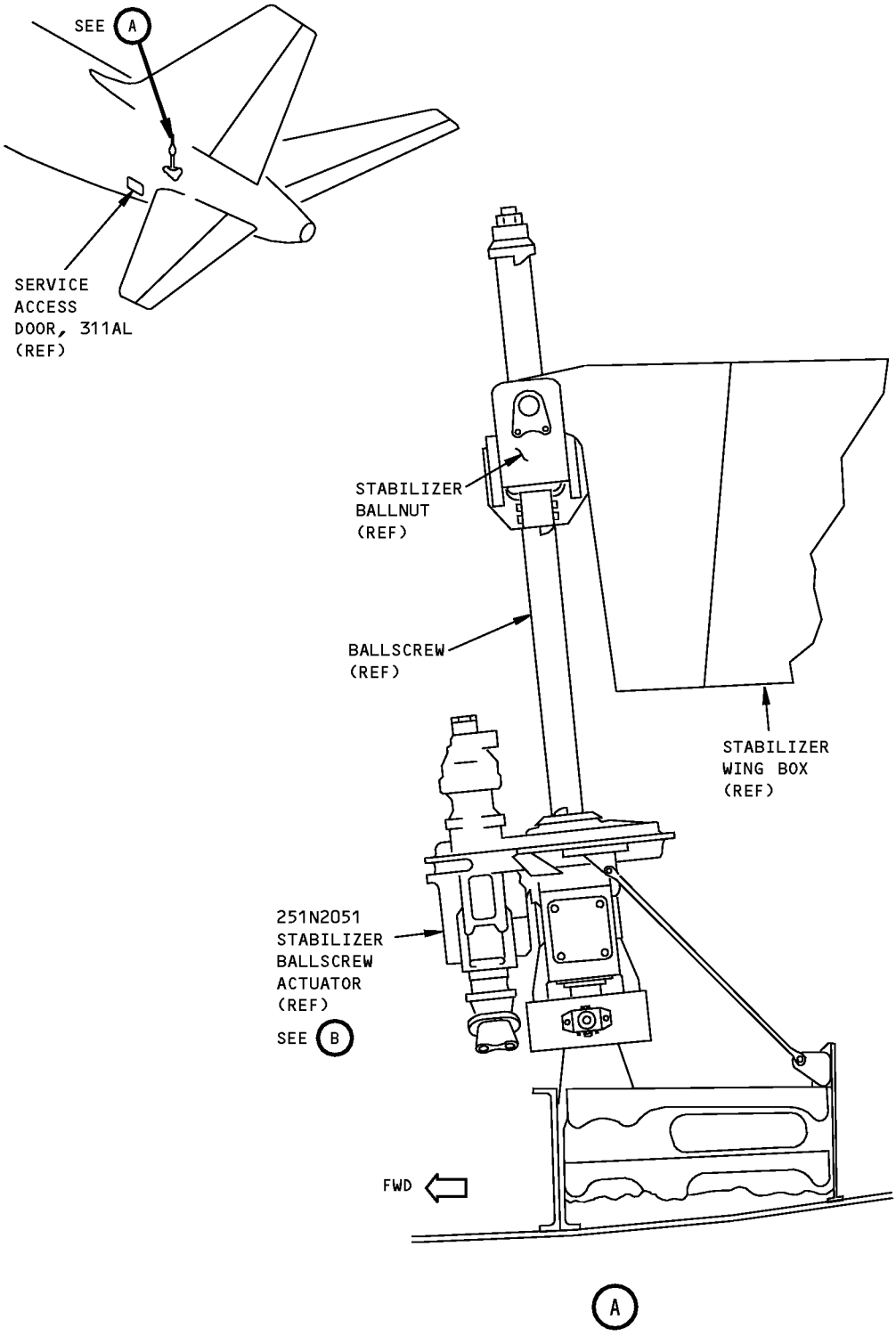
USAGE & DESCRIPTION: The B27052-70 test equipment is used during component maintenance on all 757 airplanes. B27052 is used to hold the stabilizer trim drive mechanism during functional test. B27052-70 is used in conjunction with a B27050-28 tool set, a B27051-1 seal protector sleeve and a 15 psi regulated air supply. An incidental note on the B27052-70 tool is that it includes a "A27072-29 drive assembly" component, which is part of a 767/777 airplane, A27072-55 test fixture equipment overhaul tool. Refer to CMM 27-41-05 for complete usage instructions. B27052-70 consists of:

B27052-70		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	DRIVE ASSEMBLY	A27072-29
1	FIXTURE ASSEMBLY	B27052-2
1	DRIVE ADAPTOR ASSEMBLY	B27052-7
1	LOCK ADAPTOR ASSEMBLY	B27052-8
2	LOWER PIN ASSEMBLY	B27052-9
2	UPPER PIN ASSEMBLY	B27052-10
1	LOCK ASSEMBLY	B27052-11
1	STORAGE BOX ASSEMBLY	B27052-69

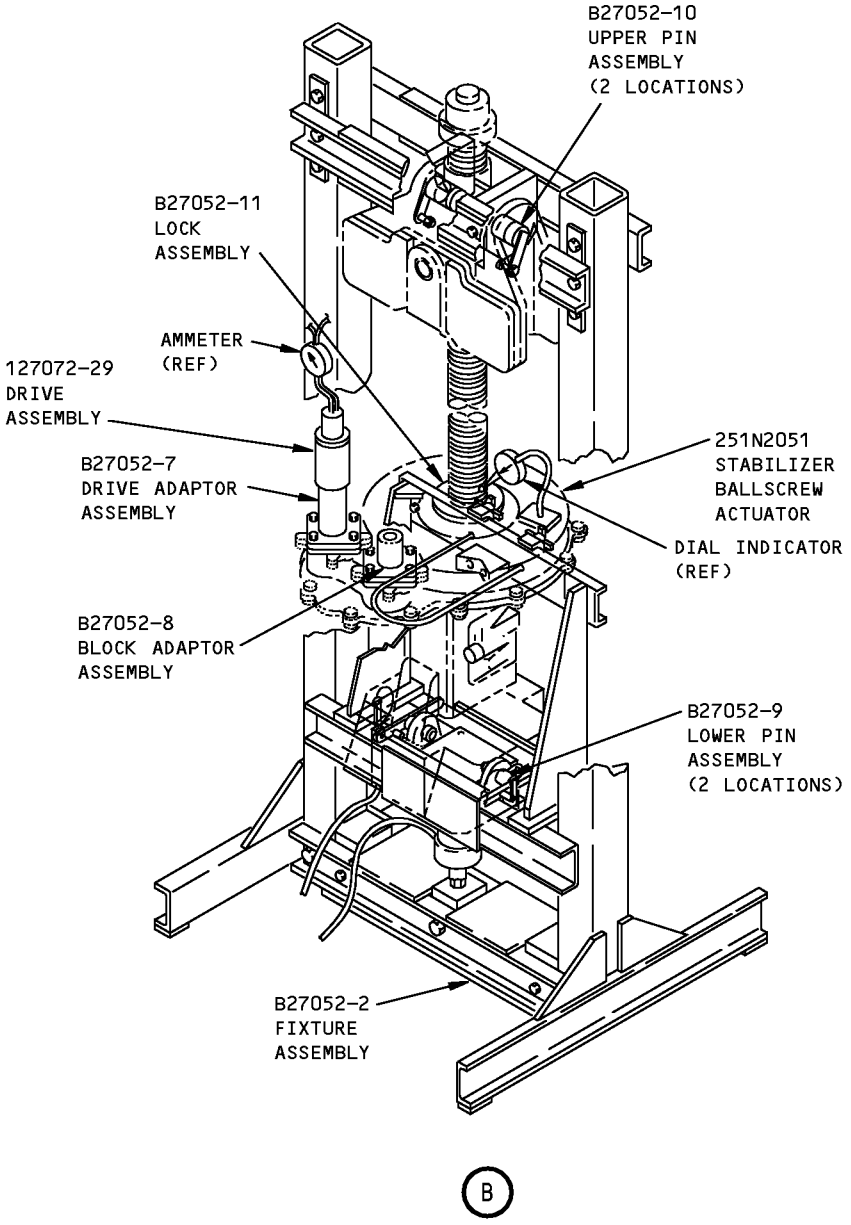
WEIGHT: 400 lbs (181 kg)

DIMENSIONS: 30 x 40 x 70 inches (762 x 1016 x 1778 mm)

NOTE: B27052-70 supersedes B27052-66.



Stabilizer Trim Drive Mechanism Test Equipment
Figure 1 (Sheet 1 of 2)



Stabilizer Trim Drive Mechanism Test Equipment
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27008-1

NAME: LOCK - TRAILING EDGE FLAP, POWER DRIVE UNIT

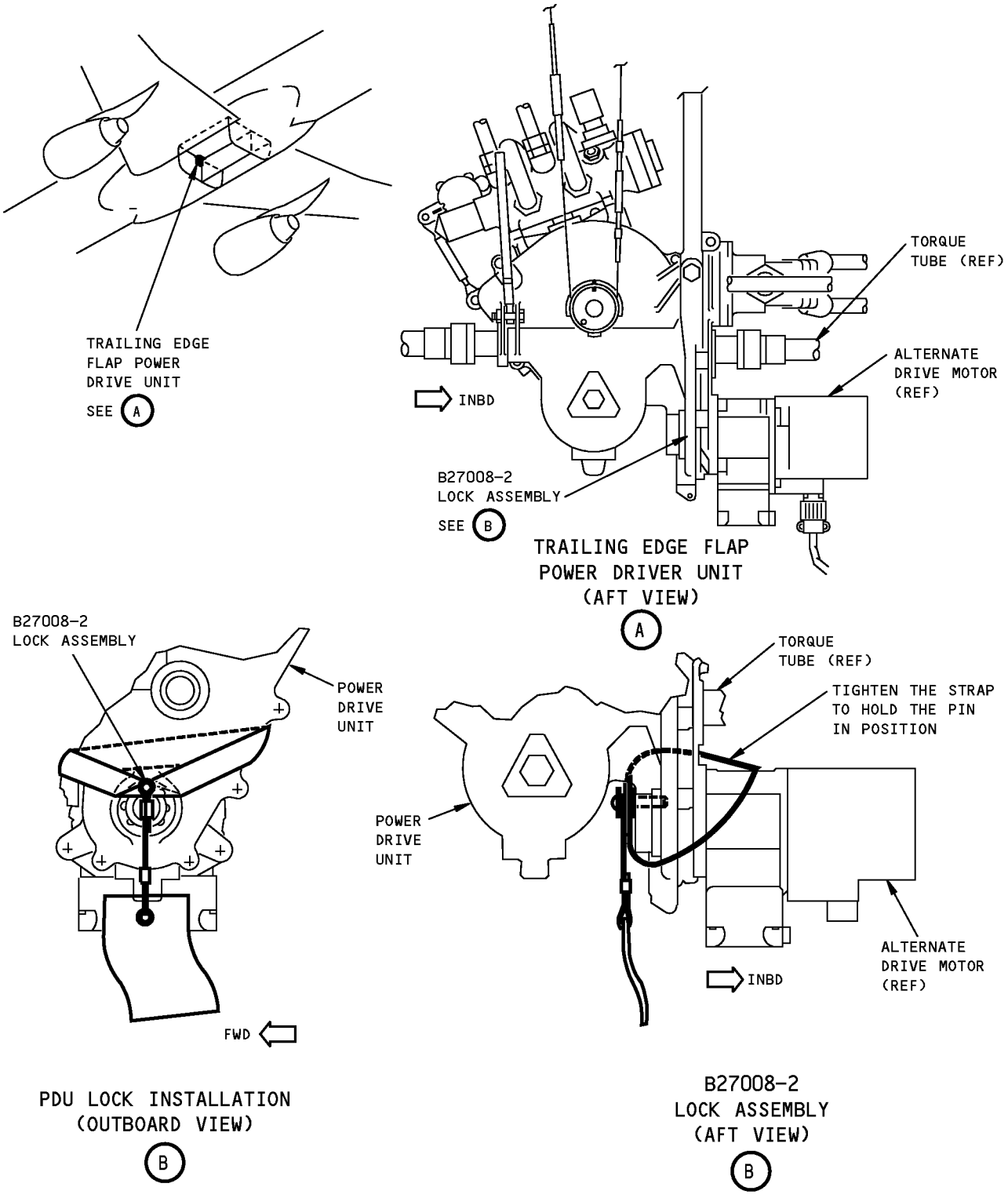
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B27008-1 lock is used on all 757 airplanes. B27008 is used to prevent accidental operation of inboard or outboard trailing edge flaps during maintenance. B27008 secures the flaps in an extended position. B27008 is a pin and strap assembly. The pin locks the flap power drive unit and the strap holds the pin in place. Refer to AMM 12-21-08, AMM 27-01-00, AMM 27-51-00, AMM 27-51-02, AMM 27-51-03, AMM 27-51-06, AMM 27-51-07, AMM 27-51-08, AMM 27-51-09, AMM 27-51-10, AMM 27-51-11, AMM 27-51-12, AMM 27-51-13, AMM 27-51-14, AMM 27-51-15, AMM 27-51-17, AMM 27-51-18, AMM 27-51-21, AMM 27-51-22, AMM 27-51-23, AMM 27-51-25, AMM 27-51-26, AMM 27-51-27, AMM 27-51-28, AMM 27-51-29, AMM 27-51-30, AMM 27-51-31, AMM 27-51-32, AMM 27-51-34, AMM 27-58-01, AMM 27-58-03, AMM 27-81-00, AMM 27-81-01, AMM 27-81-02, AMM 27-81-06, AMM 27-81-07, AMM 27-81-10, AMM 27-81-12, AMM 27-81-15, AMM 27-81-18, AMM 27-81-20, AMM 27-81-41, AMM 27-81-42, AMM 27-88-01 and CMM 27-51-17 for complete usage instructions. B27008-1 consists of a B27008-2 lock assembly contained in a storage box.

WEIGHT: 1 lb (0.45 kg)

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



Power Drive Unit Trailing Edge Flap Lock
Figure 1

PART NUMBER: B27014-20

NAME: LOCK EQUIPMENT - OUTBOARD TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

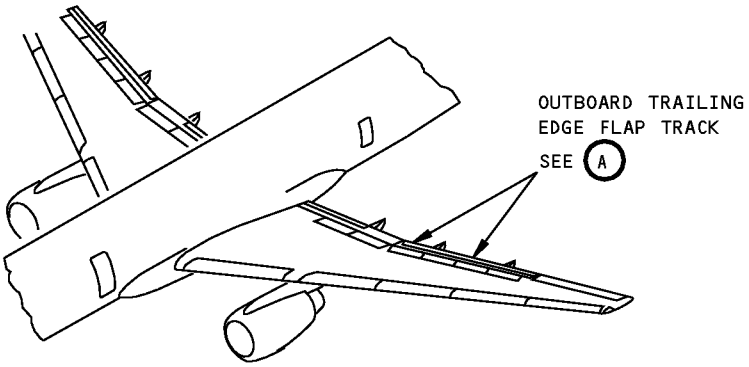
USAGE & DESCRIPTION: The B27014-20 lock equipment is used on all 757 airplanes. B27014 secures the flap carriage to the flap track when removing or installing the ball screw. The B27014 lock equipment is used with a customer-furnished fishpole hoist. Refer to AMM 27-51-21 for complete usage instructions. B27014-20 consists of:

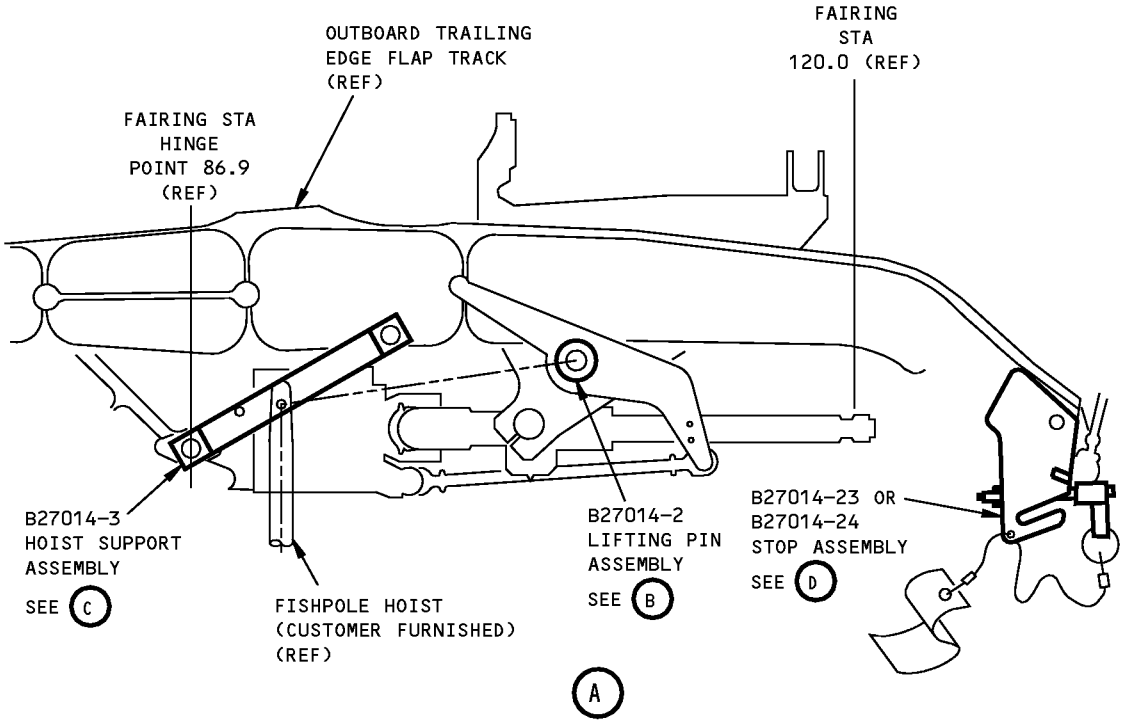
B27014-20		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
2	LIFTING PIN ASSEMBLY	B27014-2
2	HOIST SUPPORT ASSEMBLY	B27014-3
1	STOP ASSEMBLY	B27014-23
1	STOP ASSEMBLY	B27014-24
1	STORAGE BOX	

WEIGHT: 20 lbs (9 kg)

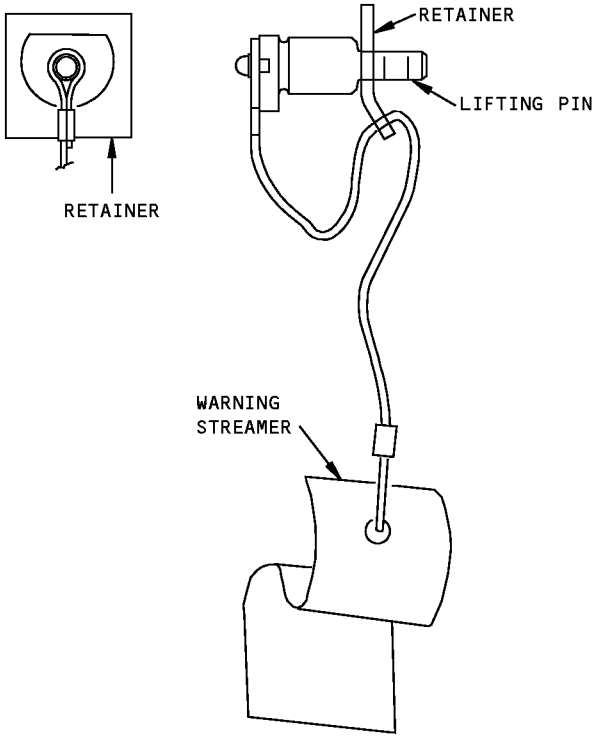
DIMENSIONS: 6 x 12 x 24 inches (152 x 305 x 610 mm)

NOTE: B27014-20 supersedes B27014-1.



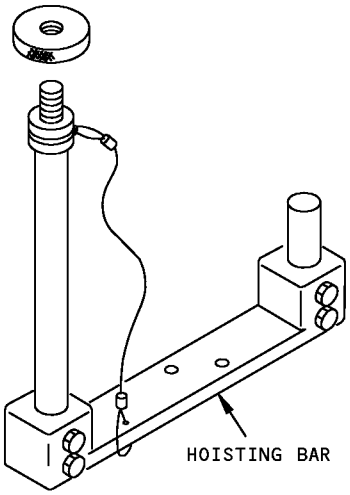


Outboard Trailing Edge Flap Lock Equipment
Figure 1 (Sheet 1 of 2)



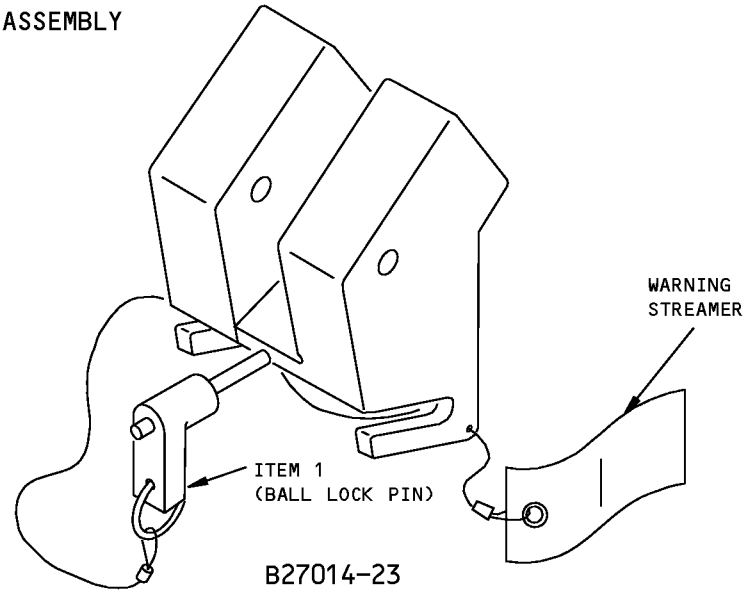
B27014-2
LIFTING PIN ASSEMBLY

B



B27014-3
HOIST SUPPORT ASSEMBLY

C



B27014-23
OUTBOARD STOP ASSEMBLY
B27014-24 INBOARD STOP ASSEMBLY

D

Outboard Trailing Edge Flap Lock Equipment
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	NAS1336C5C35D	BALL LOCK PIN	

PART NUMBER: B27016-37

NAME: LOCK EQUIPMENT - INBOARD TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

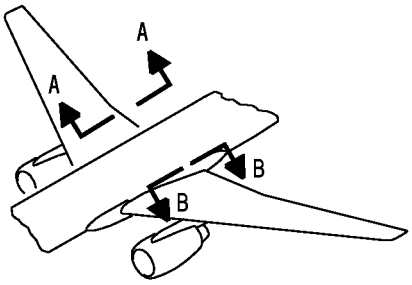
USAGE & DESCRIPTION: B27016-37 is used on all 757 airplanes. B27016-37 is used in conjunction with B27008-1 trailing edge power drive unit lock to remove the ballscrew of the inboard trailing edge flap. B27016-37 is used to secure the flap track carriage to the flap track. Refer to AMM 27-51-11 for complete usage instructions. B27016-37 consists of:

B27016-37		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	SUPPORT ASSEMBLY	B27016-2
1	SUPPORT ASSEMBLY (OPPOSITE-2)	B27016-3
1	STRAP	B27016-24
2	STRAP	B27016-25
1	INBOARD STOP ASSEMBLY	B27016-38
1	OUTBOARD STOP ASSEMBLY	B27016-39
1	STORAGE BOX	

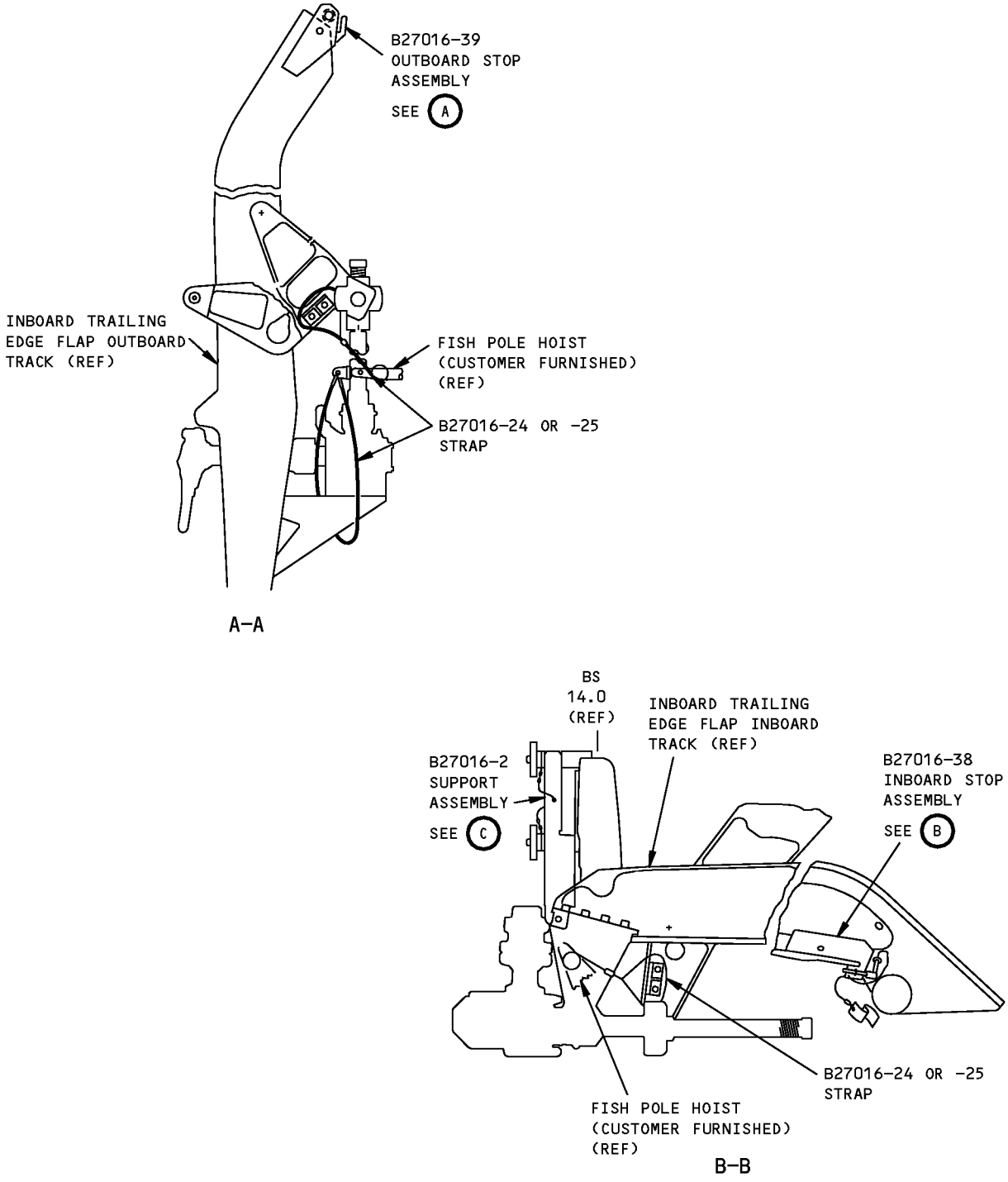
WEIGHT: 32 lbs (15 kg)

DIMENSIONS: 6 x 12 x 24 inches (152 x 305 x 610 mm)

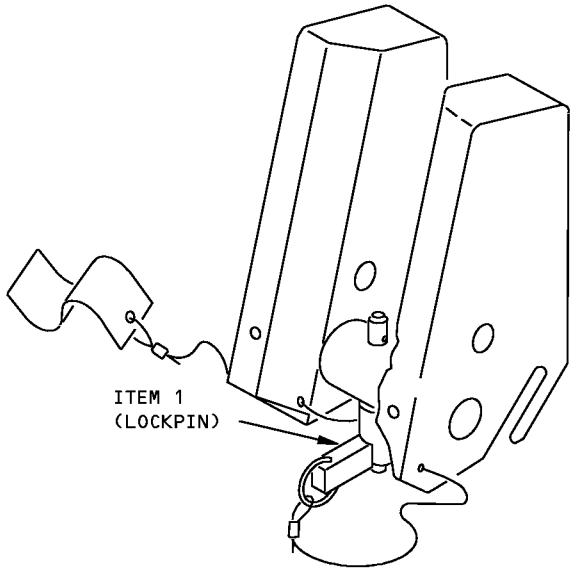
NOTE: B27016-37 supersedes B27016-1 for future procurement.



Inboard Trailing Edge Flap Lock Equipment
Figure 1 (Sheet 1 of 3)

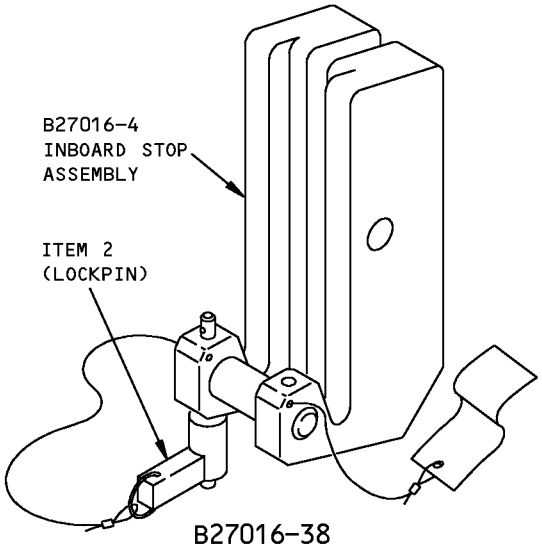


Inboard Trailing Edge Flap Lock Equipment
Figure 1 (Sheet 2 of 3)



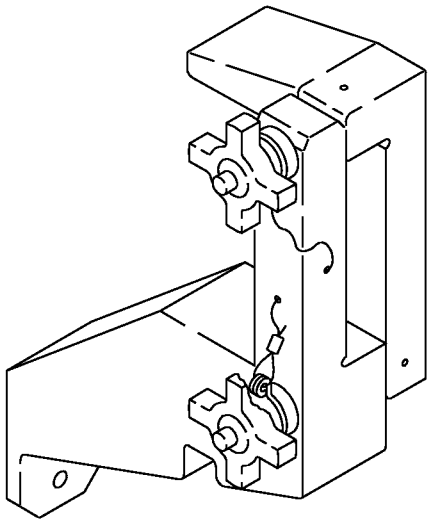
B27016-39
OUTBOARD STOP ASSEMBLY

A



B27016-38
INBOARD STOP ASSEMBLY

B



B27016-2 SUPPORT ASSEMBLY
(B27016-3 OPPOSITE)

C

Inboard Trailing Edge Flap Lock Equipment
Figure 1 (Sheet 3 of 3)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1335C5C1.6D	BALL LOCK PIN	
2	NAS1334C5C2.0D	BALL LOCK PIN	

PART NUMBER: B27025-42

NAME: SLING EQUIPMENT - INBOARD/OUTBOARD AFT FLAP

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27025-42 sling equipment is used on all 757 airplanes. B27025 is used with a customer-furnished overhead lift for the removal or installation of the inboard or outboard aft flaps.

To remove the inboard aft flap, the flap is positioned to 34 degrees and removed with a combination of the B27025-43 sling assembly, two B27025-4 cable assemblies, a B27025-6 hold assembly (inboard side) and a B27025-7 hold assembly (outboard side). Refer to the current B27025 drawing and AMM 27-50-12 for complete usage instructions.

To remove the outboard aft flap, the flap is positioned to 60 degrees and removed with a combination of the B27025-43 sling assembly, two B27025-4 cable assemblies and two B27025-44 hold assemblies. Refer to the current B27025 drawing and AMM 27-50-22 for complete usage instructions.

B27025-42 supersedes B27025-1. B27025-1 may be reworked into a B27025-42 configuration by adding a B27072-1 adapter kit. B27072-1 consists of two B27072-2 flap sling assemblies contained in a storage box. The B27072-1 flap sling assemblies are used for removal and installation of the aft outboard flaps.

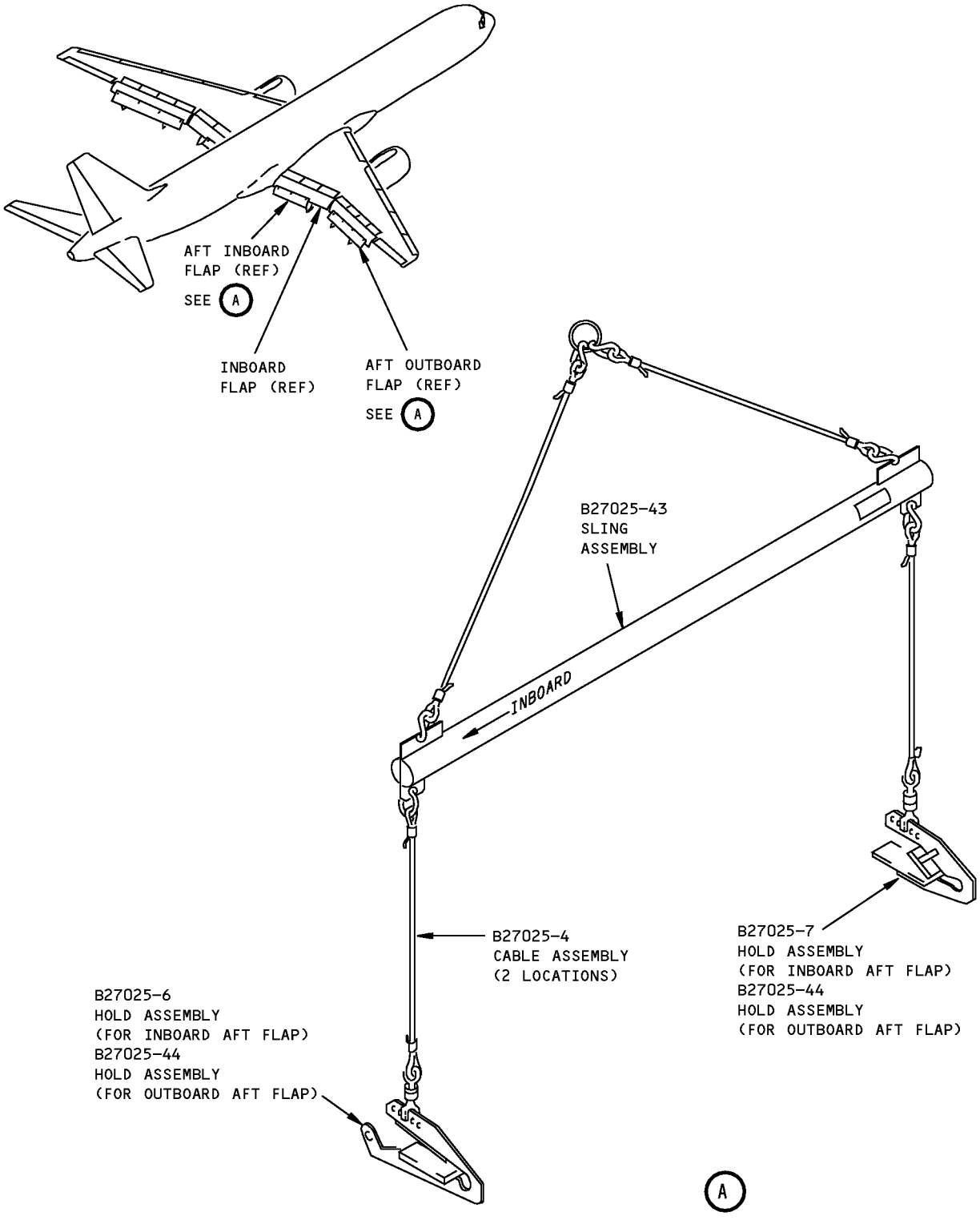
B27025-42 consists of:

B27025-42		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	SLING ASSEMBLY	B27025-43
2	CABLE ASSEMBLY	B27025-4
1	FLAP HOLD ASSEMBLY	B27025-6
1	FLAP HOLD ASSEMBLY	B27025-7
2	FLAP HOLD ASSEMBLY	B27025-44
1	STORAGE BOX	

WEIGHT: 200 lbs (91 kg)

DIMENSIONS: 6 x 36 x 140 inches (152 x 914 x 3556 mm)

NOTE: B27025-42 supersedes B27025-1.



Inboard/Outboard Aft Flap Sling Equipment
Figure 1

PART NUMBER: B27027-1

NAME: PRESSURE FITTING - FLAP TRANSMISSION, TRAILING EDGE

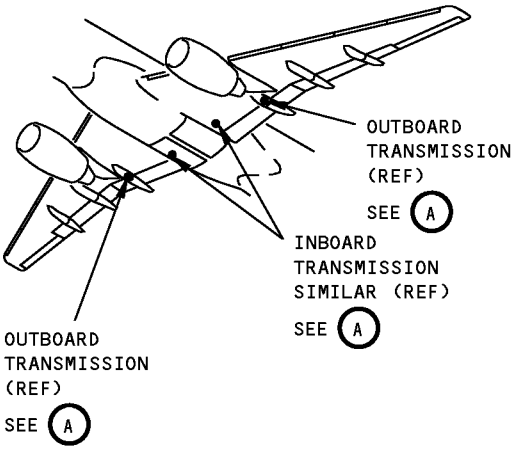
AIRPLANE MAINTENANCE: NO

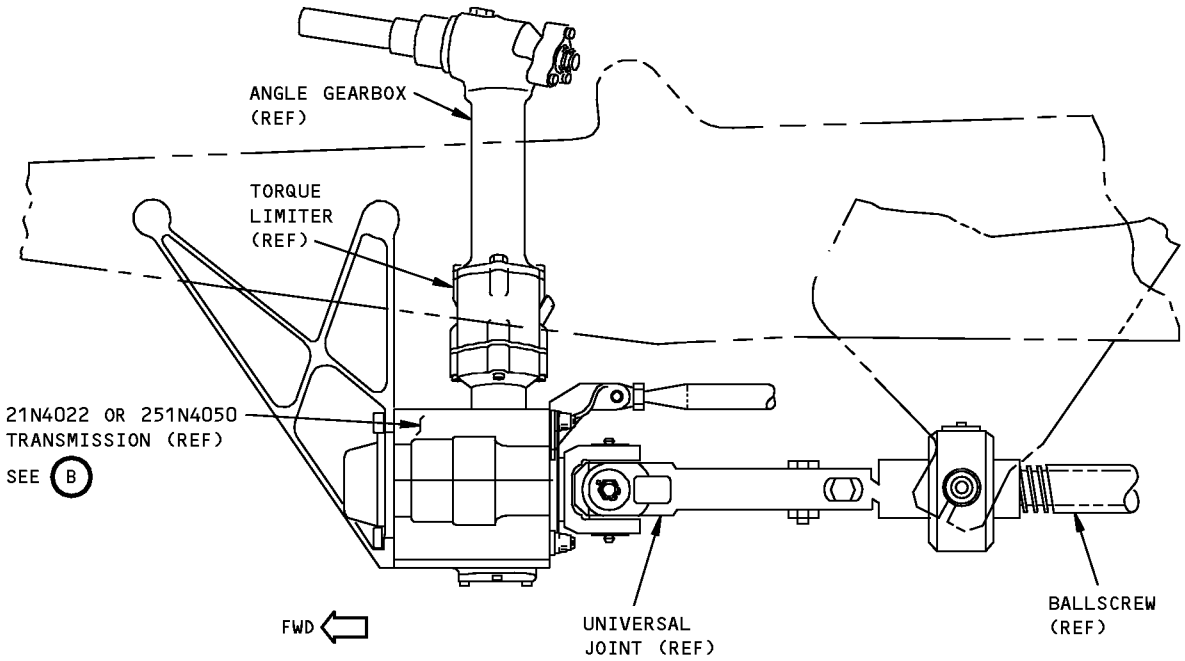
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B27027-1 pressure fitting is used during component maintenance on all 757 airplanes. B27027 is a pneumatic fitting that replaces one MS9953-07 plug. B27027 allows pressurizing the 251N4022 or 251N4050 trailing edge flap transmission assembly for pressure testing. Refer to CMM 27-51-13 for complete usage instructions. B27027-1 consists of a B27027-2 fitting assembly contained in a storage box.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 2 x 9 x 11 inches (51 x 229 x 279 mm)

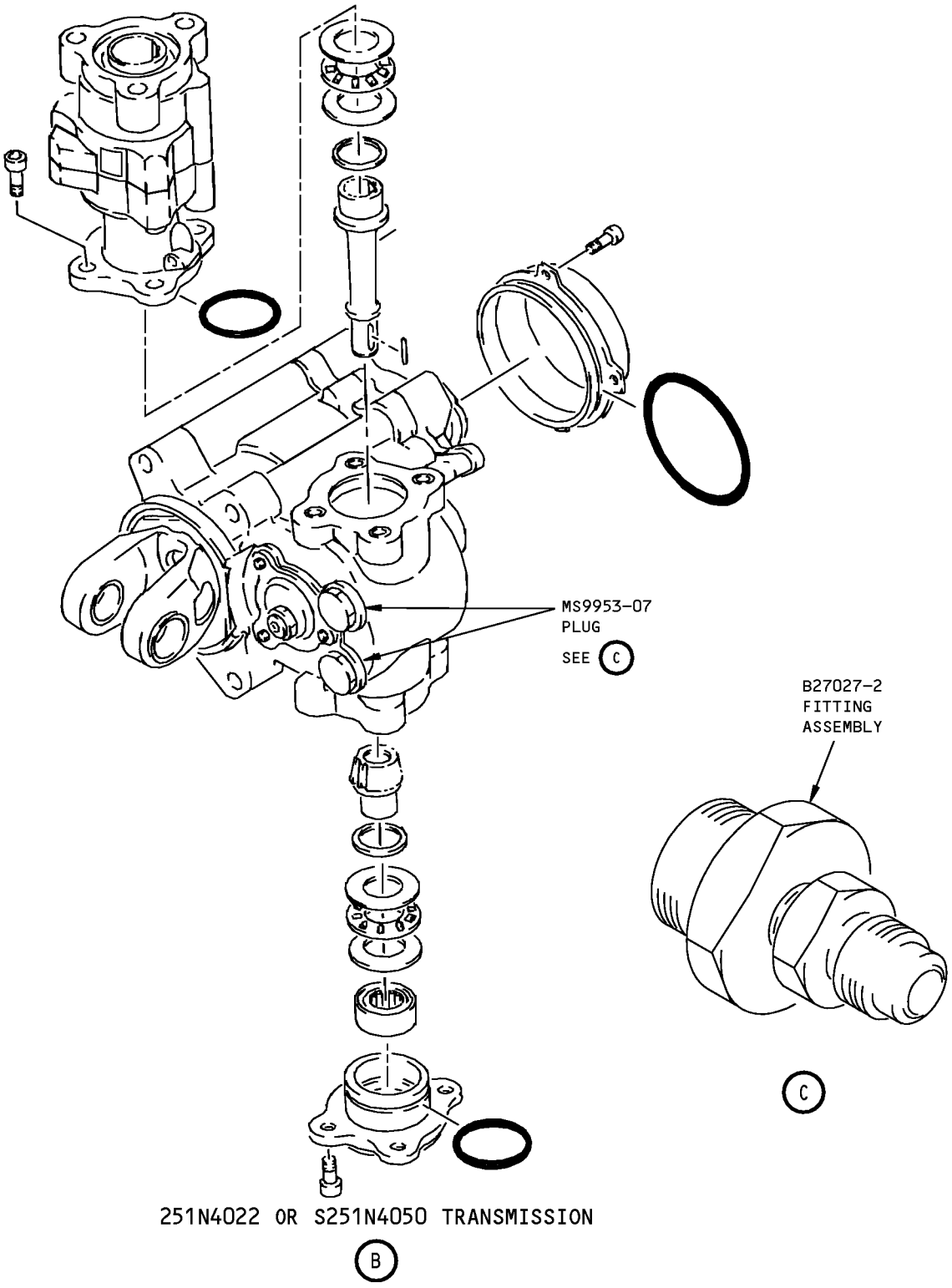




OUTBOARD TRANSMISSION

A

Trailing Edge Flap Transmission Pressure Fitting
Figure 1 (Sheet 1 of 2)



Trailing Edge Flap Transmission Pressure Fitting
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27026-60

NAME: SLING - TRAILING EDGE FLAPS, INBOARD, OUTBOARD

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27026-60 sling is used on all 757 airplanes. B27026 is used in conjunction with a customer-furnished hoist. B27026 supports and positions the inboard and outboard trailing edge flaps during installation and removal.

The B27026-61 outboard sling assembly is used with a B27026-63 bridle assembly and two B27026-88 pad assemblies for removal and installation of the outboard trailing edge flap. Refer to AMM 27-51-14 for complete usage instructions.

The B27026-62 inboard sling assembly is used with a B27026-63 bridle assembly, a B27026-65 strap assembly, a B27026-84 pad assembly, and a B27026-92 hook assembly for removal and installation of the inboard trailing flap. Refer to AMM 27-51-02 for complete usage instructions.

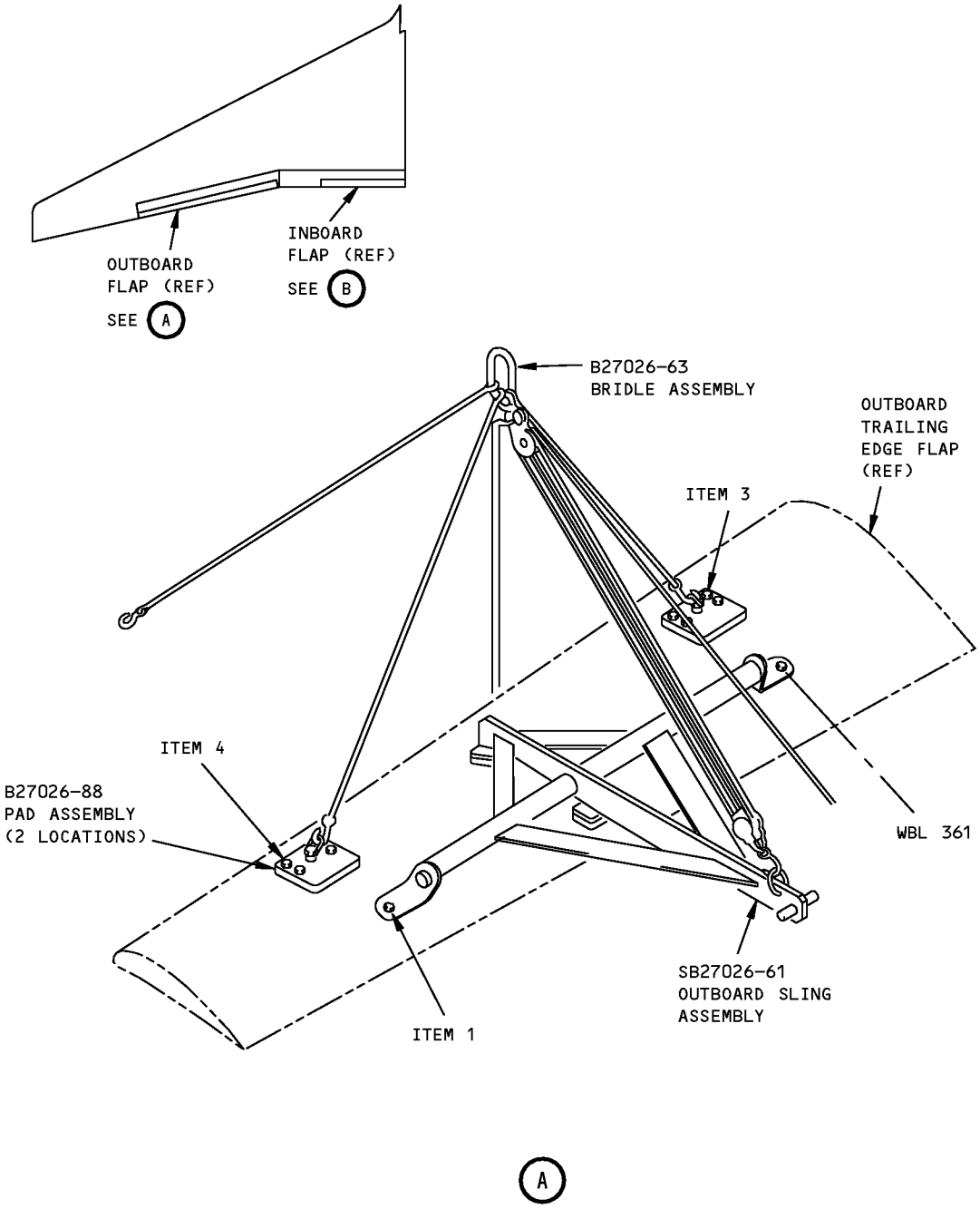
B27026-60 consists of B27026-61 outboard sling assembly and a B27026-62 inboard sling assembly without a storage box. B27026-60 also contains:

B27026-60		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
2	PAD ASSEMBLY	B27026-88
1	PAD ASSEMBLY	B27026-84
1	HOOK ASSEMBLY	B27026-92
1	BRIDLE ASSEMBLY	B27026-63
1	STRAP ASSEMBLY	B27026-65
1	STORAGE BOX	

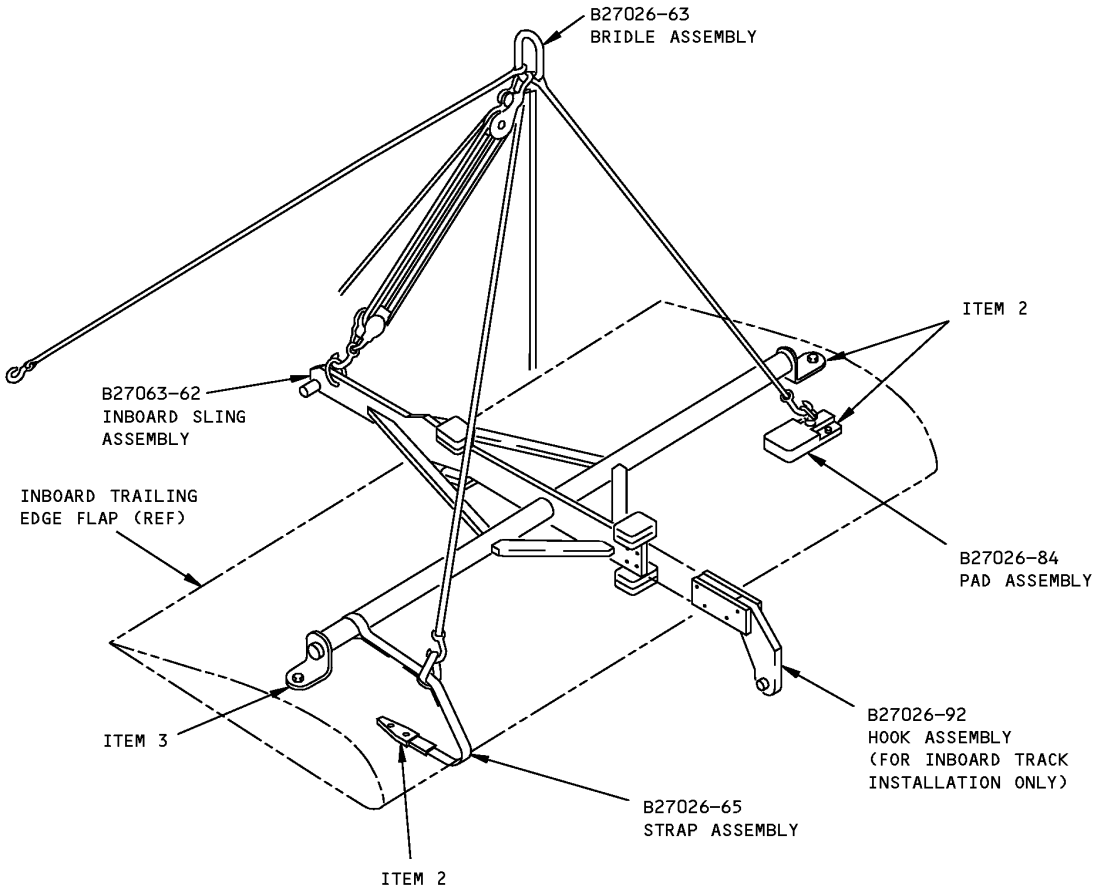
WEIGHT: 460 lbs (209 kg)

DIMENSIONS: 18 x 60 x 160 inches (457 x 1524 x 4064 mm)

NOTE: B27026-60 supersedes B27026-1.
B27078 replaces B27026 for future procurement.



Inboard and Outboard Trailing Edge Flaps Sling
Figure 1 (Sheet 1 of 2)



Inboard and Outboard Trailing Edge Flaps Sling
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	NAS6603-15	BOLT	
2	NAS6603-17	BOLT	
3	NAS6603-18	BOLT	
4	NAS601-3	SCREW	

PART NUMBER: B27028-1

NAME: TEST EQUIPMENT - TORQUE LIMITER, TRANSMISSION TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: NO

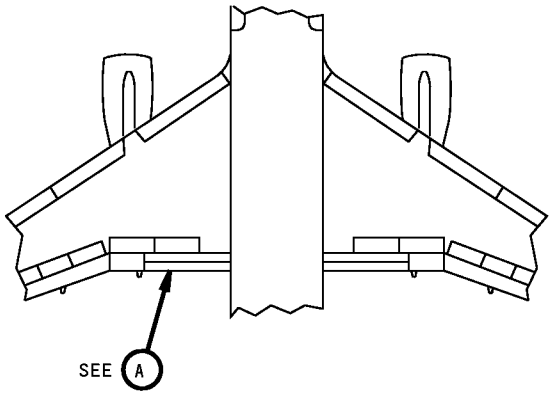
COMPONENT MAINTENANCE: YES

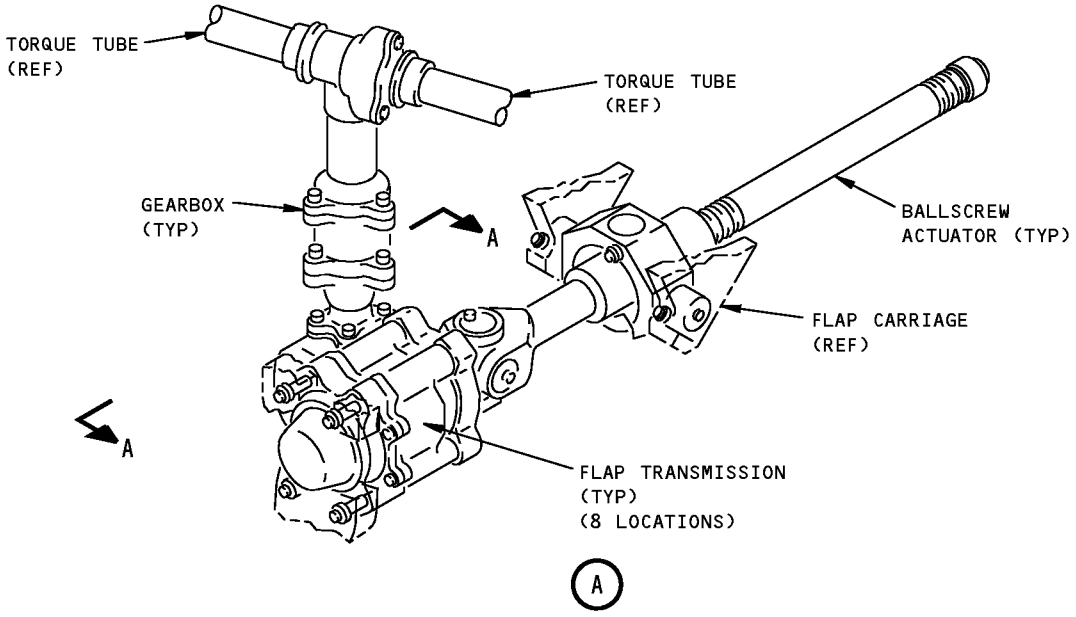
USAGE & DESCRIPTION: B27028-1 test equipment is used during component maintenance on 757 airplanes manufactured prior to line number 797 and if Service Bulletin 757-27A0127 has not been incorporated. B27028 is used to attach the 251N4162 or 251N4163 torque limiter assembly to a stationary platform to apply and measure either input or output torque. Refer to the current B27028 drawing, CMM 27-51-12 or CMM 27-51-13 for complete usage instructions. B27028-1 consists of:

B27028-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	BASE ASSEMBLY	B27028-2
1	HOUSING ASSEMBLY	B27028-6
1	EXTERNAL SPLINE	B27028-7
1	INTERNAL SPLINE	B27028-8
1	PLATE	B27028-9
1	STOP	B27028-10
3	BOLT	AN4-13A
3	BOLT	AN4-57A
3	NUT	MS35691-37
1	STORAGE BOX	

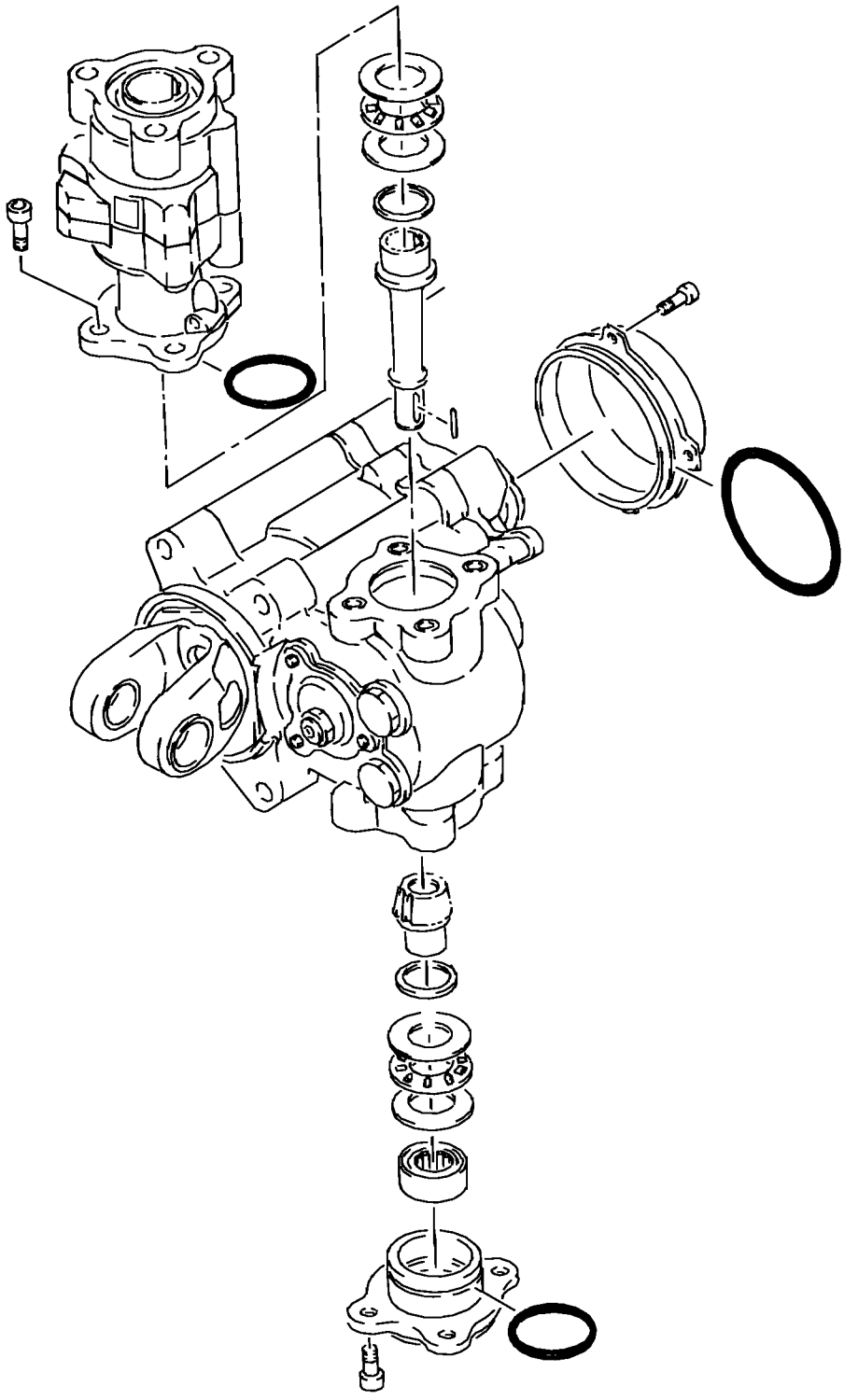
WEIGHT: 15 lbs (7 kg)

DIMENSIONS: 7 x 10 x 12 inches (178 x 254 x 305 mm)

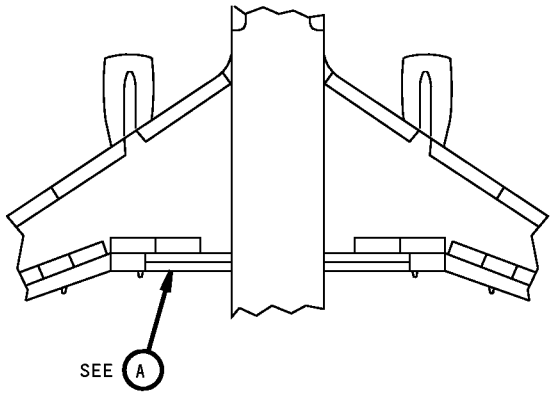


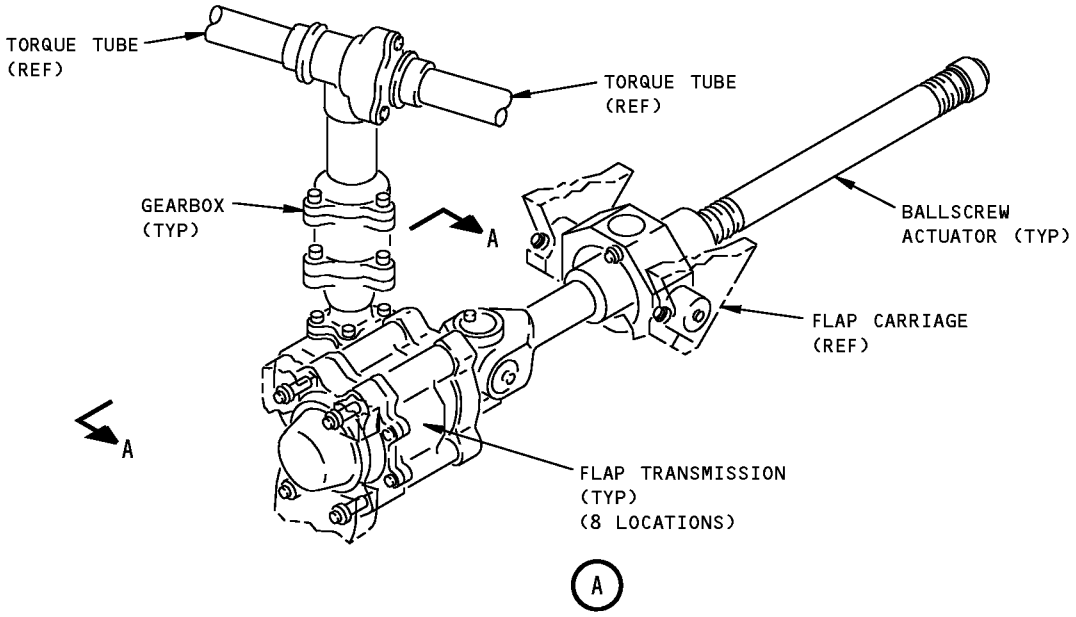


Transmission Trailing Edge Flap Torque Limiter Test Equipment
Figure 1 (Sheet 1 of 3)



Transmission Trailing Edge Flap Torque Limiter Test Equipment
Figure 1 (Sheet 2 of 3)





Transmission Trailing Edge Flap Torque Limiter Test Equipment
Figure 1 (Sheet 3 of 3)

PART NUMBER: B27037-1

NAME: FIXTURE - TRAILING EDGE FLAP TRANSMISSION TORQUE LIMITER

AIRPLANE MAINTENANCE: NO

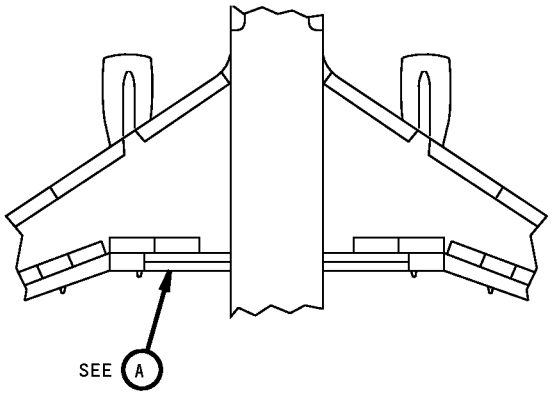
COMPONENT MAINTENANCE: YES

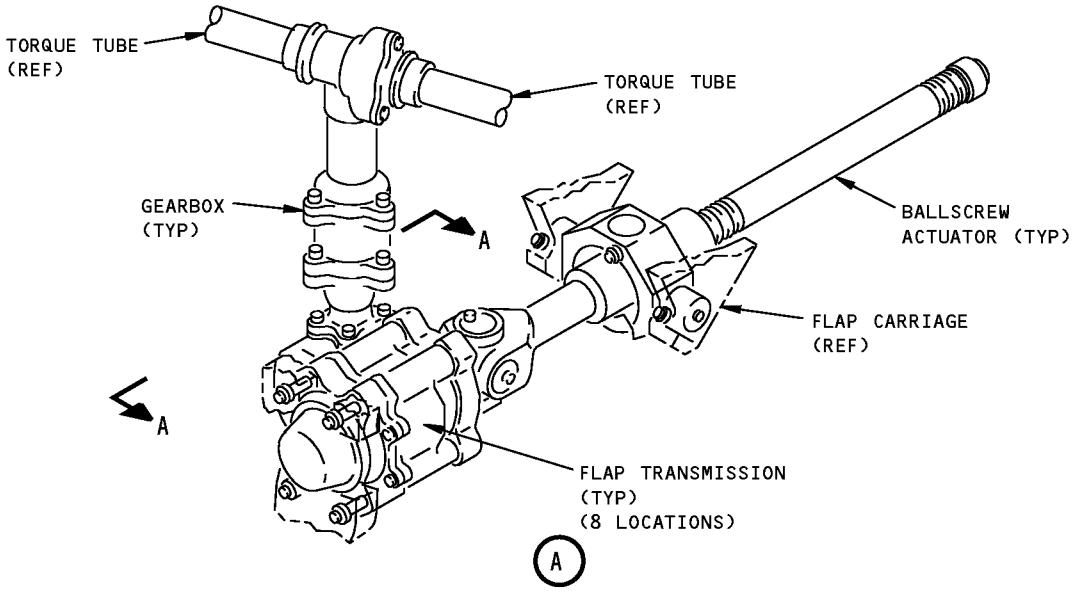
USAGE & DESCRIPTION: The B27037-1 fixture is used during component maintenance on all 757 airplanes. B27037 is used to apply an axial load on the 251N4161 torque limiter plate stack as measurements are made to determine a proper shim thickness. Refer to CMM 27-51-13 for complete usage instructions. B27037-1 consists of:

B27037-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	LEVER	B27037-2
1	BASE	B27037-3
1	FITTING	B27037-9
1	PAD	B27037-10
1	SPRING PIN	MS16562-235
1	SPRING PIN	MS16562-237

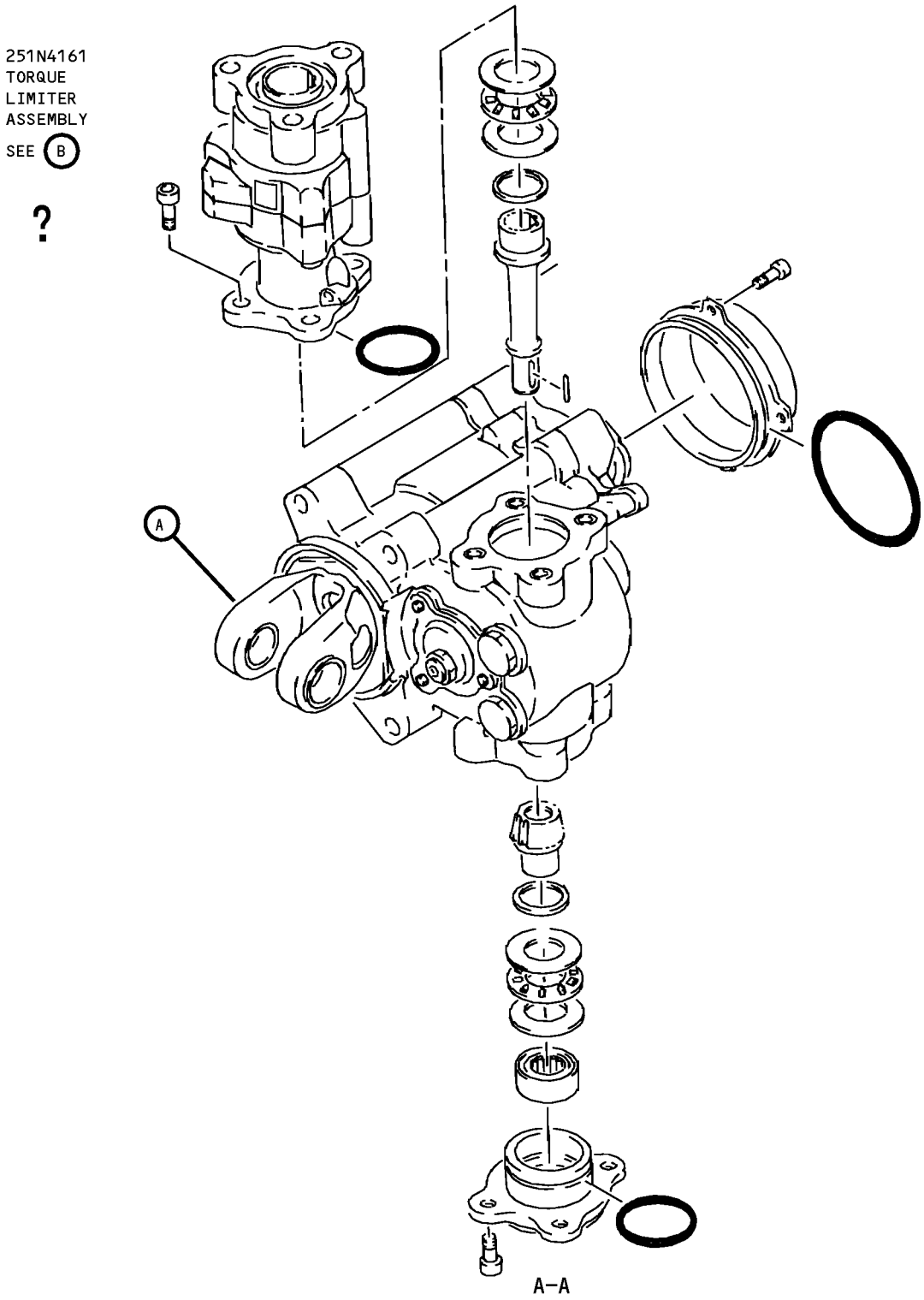
WEIGHT: 19 lbs (9 kg)

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

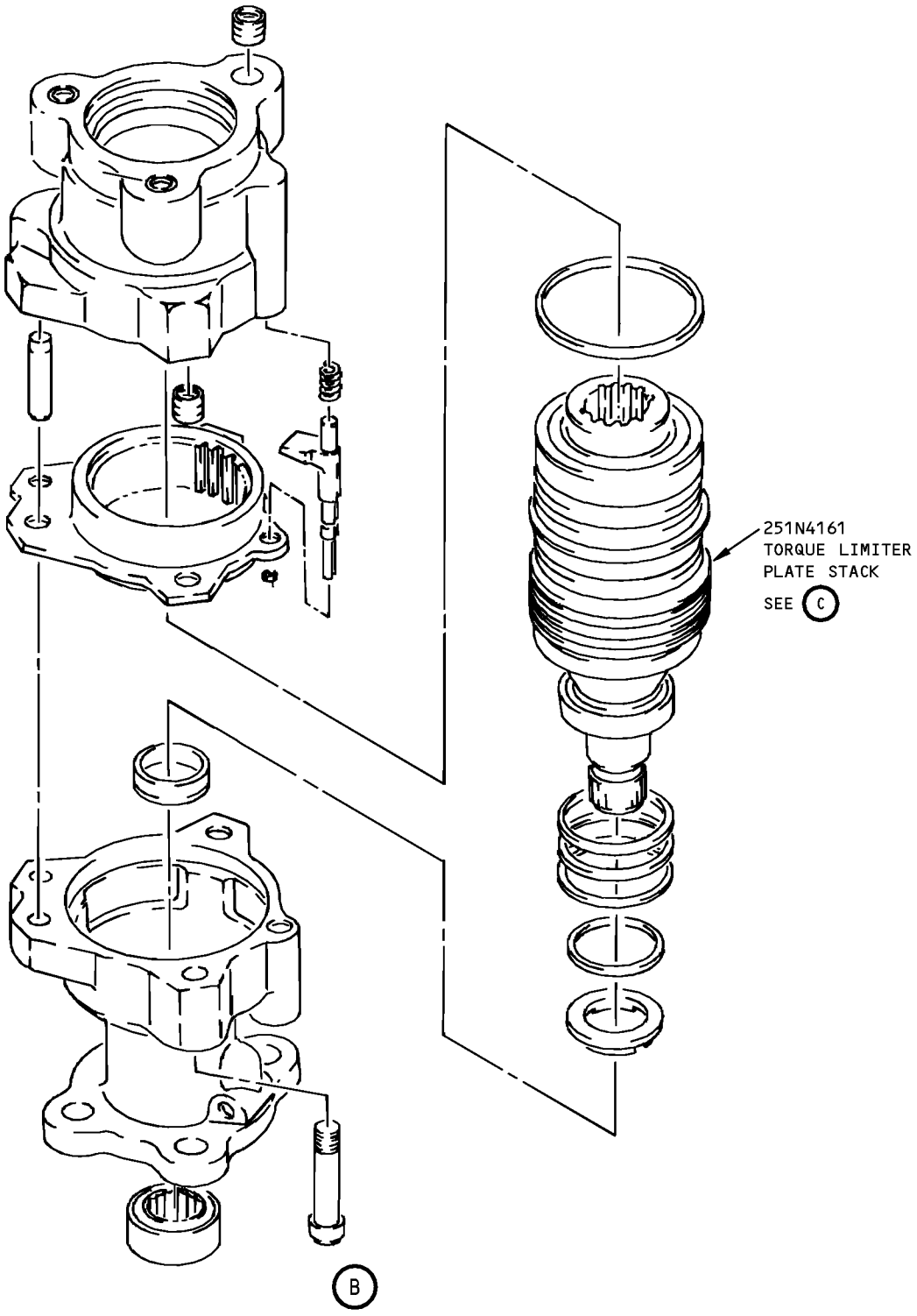




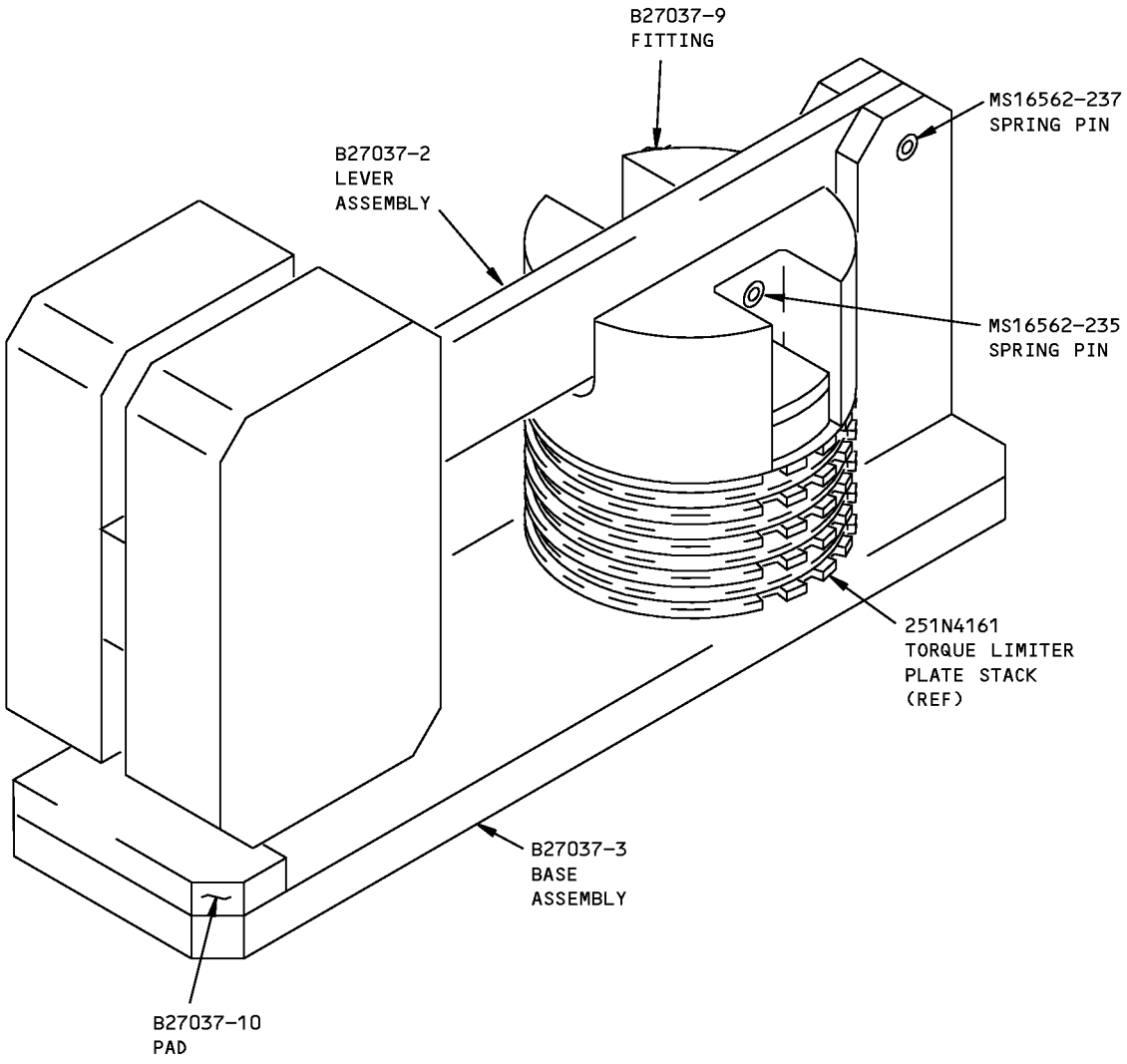
Trailing Edge Flap Transmission Torque Limiter Fixture
Figure 1 (Sheet 1 of 4)



Trailing Edge Flap Transmission Torque Limiter Fixture
Figure 1 (Sheet 2 of 4)



Trailing Edge Flap Transmission Torque Limiter Fixture
Figure 1 (Sheet 3 of 4)



Trailing Edge Flap Transmission Torque Limiter Fixture
Figure 1 (Sheet 4 of 4)

PART NUMBER: B27017-1

NAME: TEST BOX - POWER SUPPLY, FLAP SLAT ELECTRONIC UNIT (FSEU)

AIRPLANE MAINTENANCE: NO

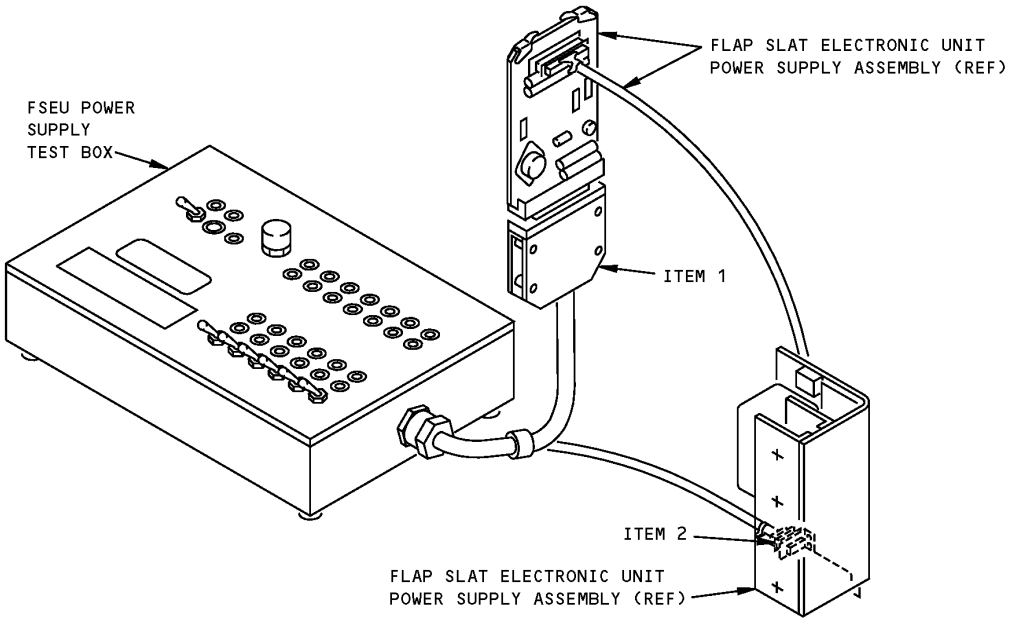
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B27017 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The B27017 inclusion in the 757 ITEM is for information and historical purposes only.

The B27017-1 test box is used during component maintenance on all 757 airplanes. B27017 is used to test the 285N0021-2 or -3 FSEU power supply assembly. B27017 is used in conjunction with a Keithley 173A digital multimeter (or equivalent); a Tektronix 466 oscilloscope (or equivalent); a Simpson 260 multimeter (or equivalent); a 0-125 VAC, 400 Hz, isolated variable transformer (variac); a 0-75 VDC, constant voltage/constant current DC power supply and Boeing B27018 and A27038 breakout boxes. Refer to CMM 27-51-57 for complete usage instructions. B27017-1 consists of connectors, switches, resistors, banana jacks, a lamp, a fuse and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 10 lb (4.5 kg)

DIMENSIONS: 3 x 8 x 12 inches (76 x 203 x 305 mm)



FSEU Power Supply Test Box
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	300055-003	CONNECTOR	V03877
2	DEMA-95	CONNECTOR	V71468

PART NUMBER: B27038-1, -13, -26, -37

NAME: TEST AND OVERHAUL EQUIPMENT - ANGLE TEE GEARBOX, TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B27038-1, -13, -26 and -37 test and overhaul equipment are all used during component maintenance on all 757 airplanes.

There are two flaps on each wing, an inboard flap and an outboard flap. Each flap consists of a main flap and an aft flap. The flaps are positioned by two ballscrew actuators attached to each flap. The ballscrews are driven with torque tubes through a system of transmissions and gearboxes. The B27038 test and overhaul equipment is used in conjunction with a customer-furnished dial indicator to measure the bevel gear backlash in the gearboxes.

B27038-1 is used to measure the bevel gear backlash of the 251N4218, 012N8330, 012N8792, 251N4204, 012N8330 and 012N8792 inboard and outboard Tee gearbox assemblies on the outboard flap. Refer to the current B27038 drawing, CMM 27-51-29 and CMM 27-51-33 for complete usage instructions.

B27038-13 is used to measure the bevel gear backlash of the 251N4241 inboard Tee gearbox assembly on the inboard flap. Refer to the current B27038 drawing and CMM 27-51-30 for complete usage instructions.

B27038-26 is used to measure the bevel gear backlash of the 251N4222, 012N8330 and 012N8706 outboard Tee gearbox assembly on the inboard flap. Refer to the current B27038 drawing and CMM 27-51-32 for complete usage instructions.

B27038-37 is used to measure the bevel gear backlash of the 251N4080 and 012N8792 angle gearbox assembly. Refer to the current B27038 drawing and CMM 27-51-27 for complete usage instructions.

B27038-1, -13, -26 and -37 consist of:

B27038-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	BASE ASSEMBLY	B27038-2
1	COUPLING SPLINE WRENCH	B27038-33*[1]
1	GEAR SPLINE WRENCH ASSEMBLY	B27038-10*[1]
1	GEAR SPLINE WRENCH ASSEMBLY	B27038-23*[1]

B27038-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	HAND KNOB	CL-10-HK-2
3	BOLT	AN4-13A
6	WASHER	AN960-416
3	NUT	MS35691-5
1	STORAGE BOX	

*[1] B27038-10, B27038-23 AND B27038-33 ARE USED ON MULTIPLE ASSEMBLIES. FINAL QUANTITY IS AT USER'S DISCRETION.

B27038-13		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	BASE ASSEMBLY	B27038-14
1	COUPLING SPLINE WRENCH	B27038-33*[1]
1	GEAR SPLINE WRENCH ASSEMBLY	B27038-23*[1]
1	HAND KNOB	CL-10-HK-2
2	BOLT	AN6-15A
4	WASHER	AN960-616
2	NUT	MS35691-12
1	STORAGE BOX	

*[1] B27038-10, B27038-23 AND B27038-33 ARE USED ON MULTIPLE ASSEMBLIES. FINAL QUANTITY IS AT USER'S DISCRETION.

B27038-26		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	BASE ASSEMBLY	B27038-27
1	COUPLING SPLINE WRENCH	B27038-33*[1]
1	GEAR SPLINE WRENCH ASSEMBLY	B27038-10*[1]
1	HAND KNOB	CL-10-HK-2
2	BOLT	AN4-14A
4	WASHER	AN960-416
2	NUT	MS35691-5
1	STORAGE BOX	

*[1] B27038-10, B27038-23 AND B27038-33 ARE USED ON MULTIPLE ASSEMBLIES. FINAL QUANTITY IS AT USER'S DISCRETION.

B27038-37		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	BASE ASSEMBLY	B27038-38

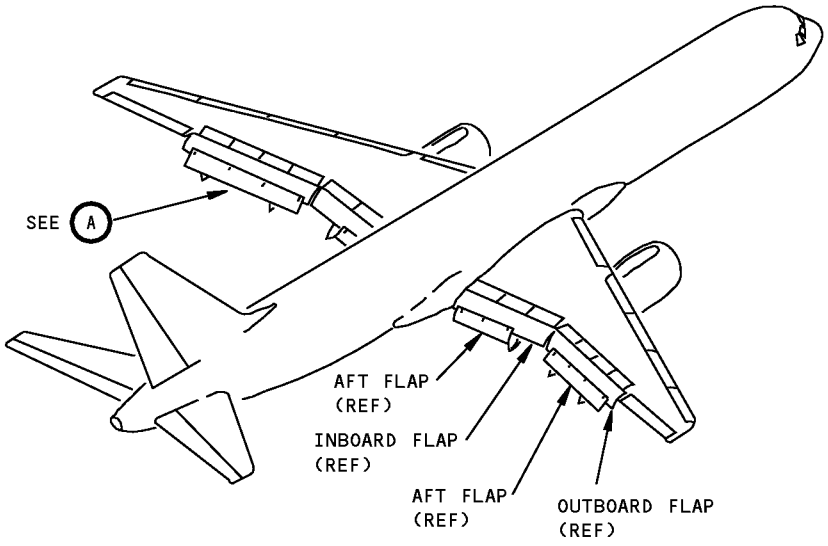
B27038-37		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	LOCK ASSEMBLY	B27038-39
1	ADAPTER ASSEMBLY	B27038-40
4	WASHER	AN960-416L
1	NUT	MS35650–3252
1	PAN HEAD SCREW	NAS600-7P
1	BOLT	NAS6604-3
2	BOLT	NAS6604-8
1	BOLT	NAS6604-12
1	STORAGE BOX	

WEIGHT:

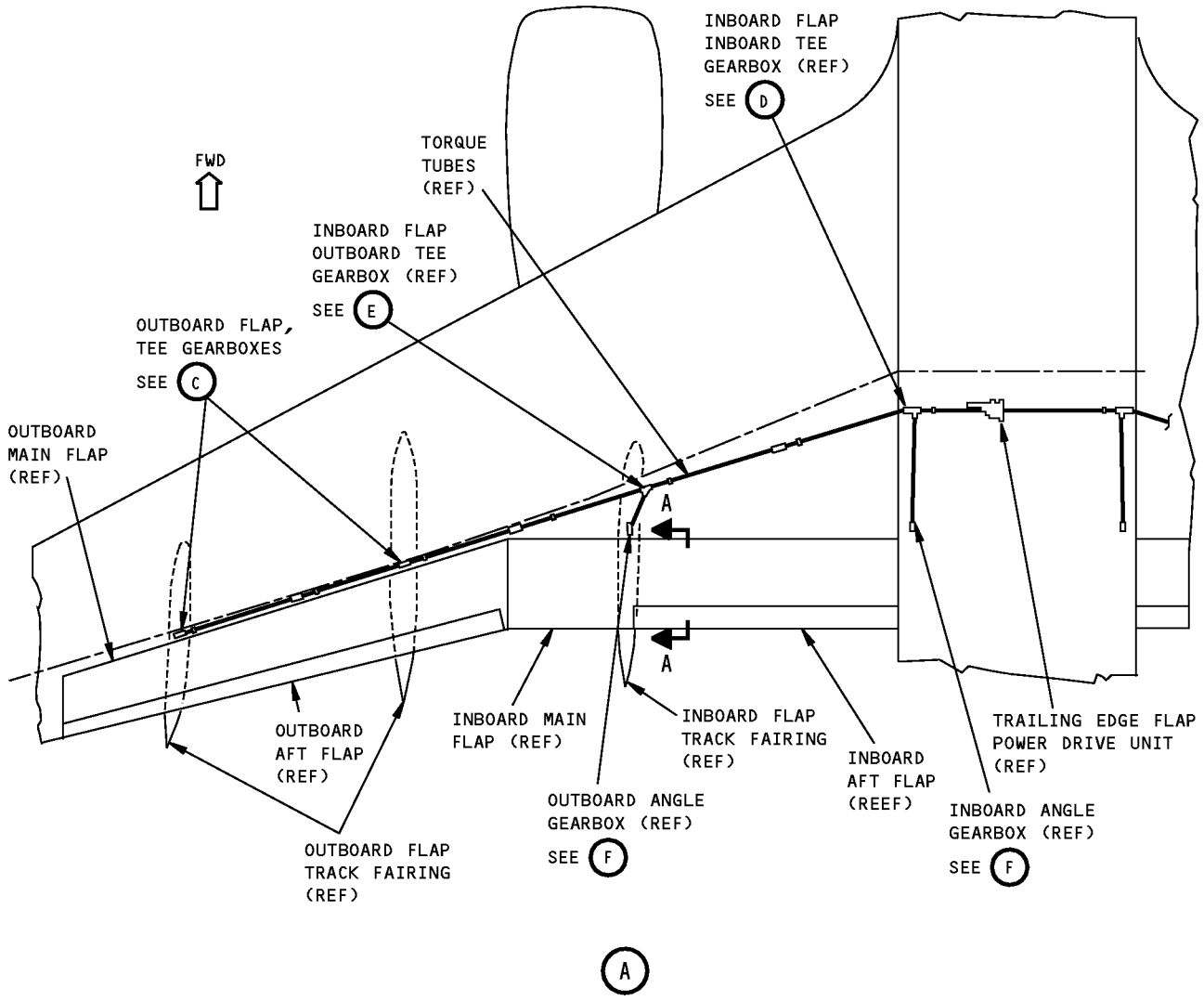
B27038-1 - 7 lbs (3.2 kg)
B27038-13 - 10 lbs (4.5 kg)
B27038-26 - 12 lbs (5.4 kg)
B27038-37 - 14 lbs (6.4 kg)

DIMENSIONS:

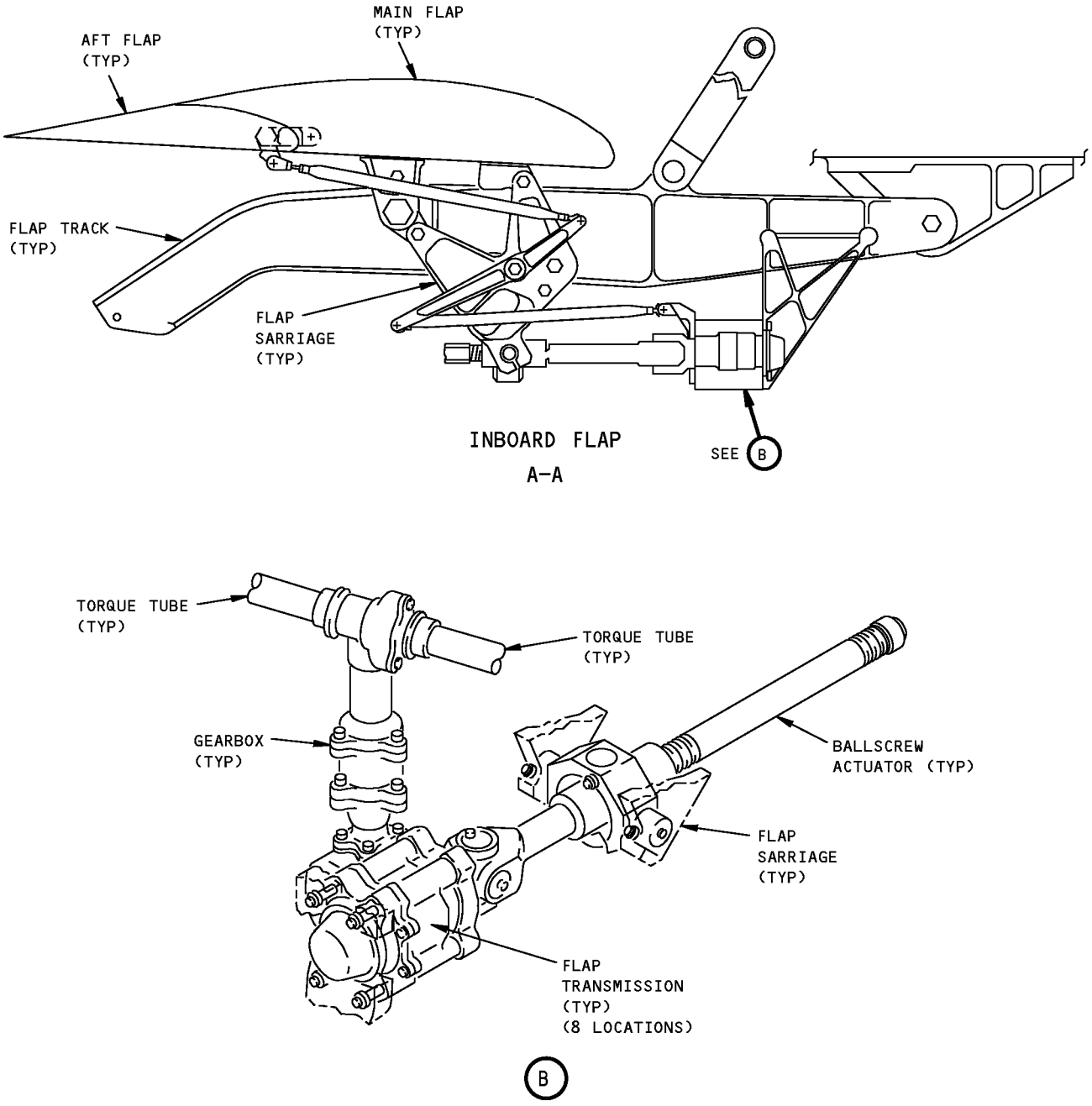
B27038-1 - 9 x 12 x 14 inches (229 x 305 x 356 mm)
B27038-13 - 10 x 12 x 16 inches (254 x 305 x 406 mm)
B27038-26 - 8 x 14 x 16 inches (203 x 356 x 406 mm)
B27038-37 - 5 x 7 x 22 inches (127 x 178 x 559 mm)



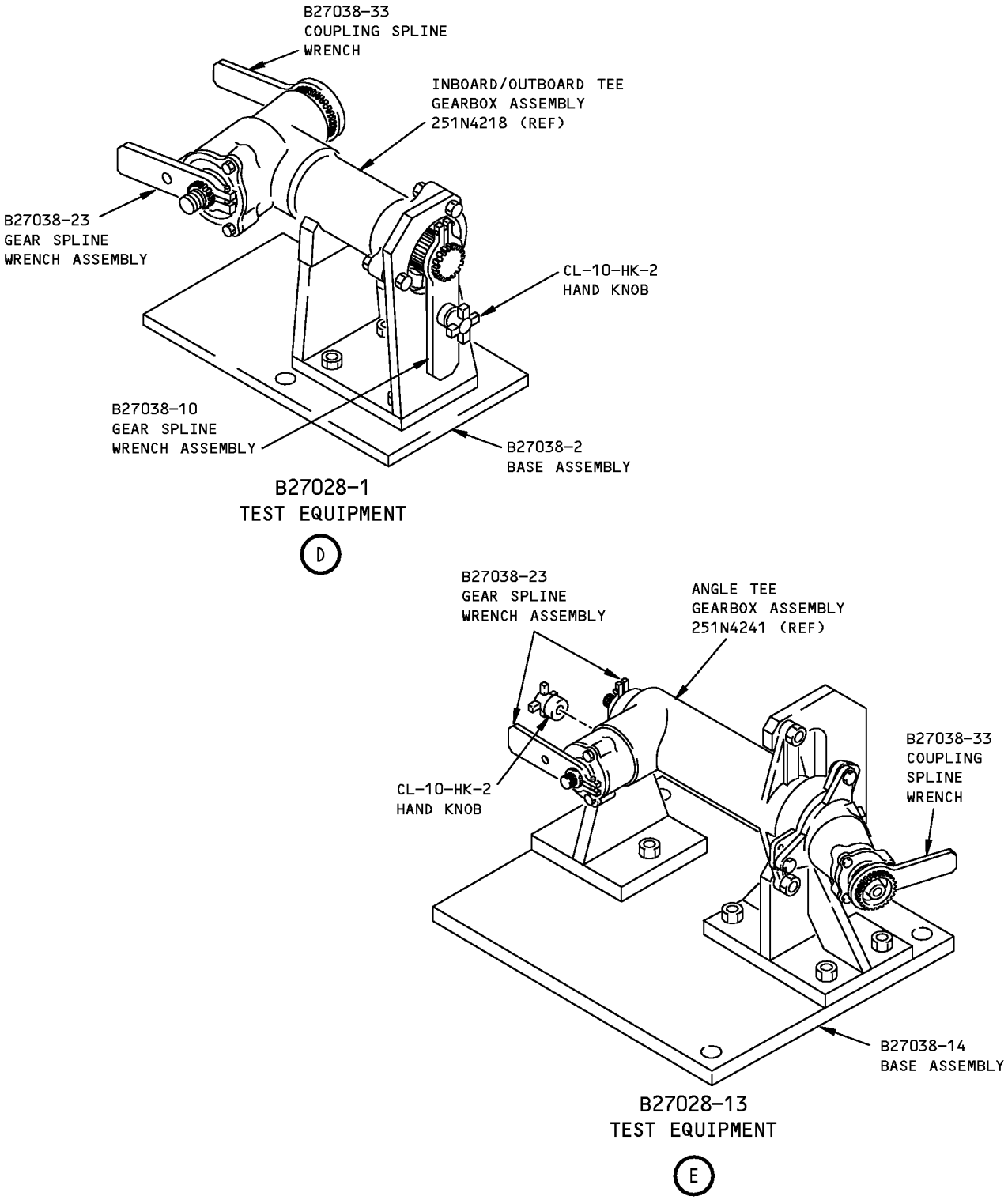
Trailing Edge Flap Angle Tee Gearbox Test And Overhaul Equipment
Figure 1 (Sheet 1 of 5)



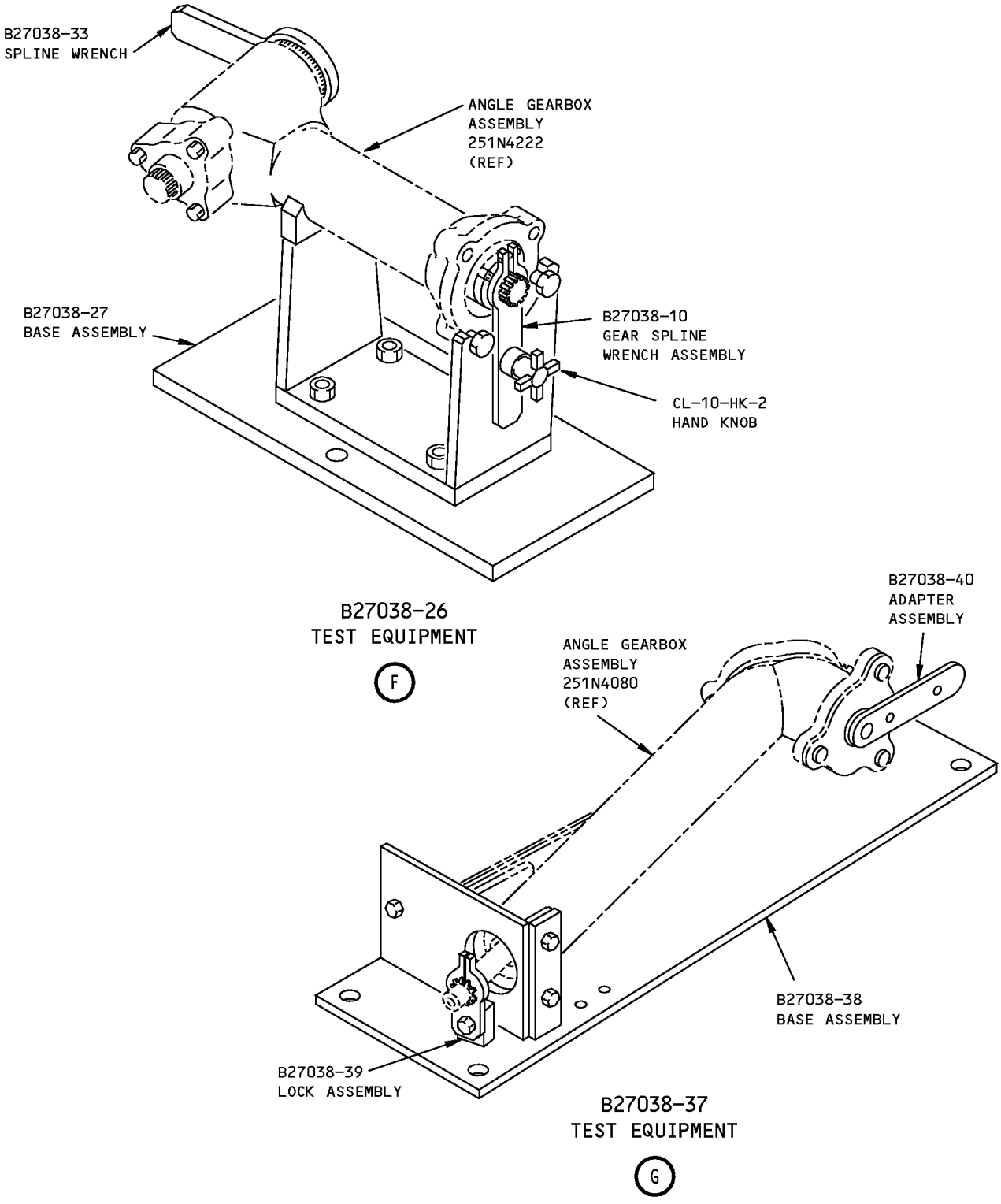
Trailing Edge Flap Angle Tee Gearbox Test And Overhaul Equipment
Figure 1 (Sheet 2 of 5)



Trailing Edge Flap Angle Tee Gearbox Test And Overhaul Equipment
Figure 1 (Sheet 3 of 5)



Trailing Edge Flap Angle Tee Gearbox Test And Overhaul Equipment
Figure 1 (Sheet 4 of 5)



Trailing Edge Flap Angle Tee Gearbox Test And Overhaul Equipment
Figure 1 (Sheet 5 of 5)

PART NUMBER: B27042-1

NAME: OVERHAUL AND TEST EQUIPMENT - OUTBOARD TEE GEARBOX, INBOARD FLAP

AIRPLANE MAINTENANCE: NO

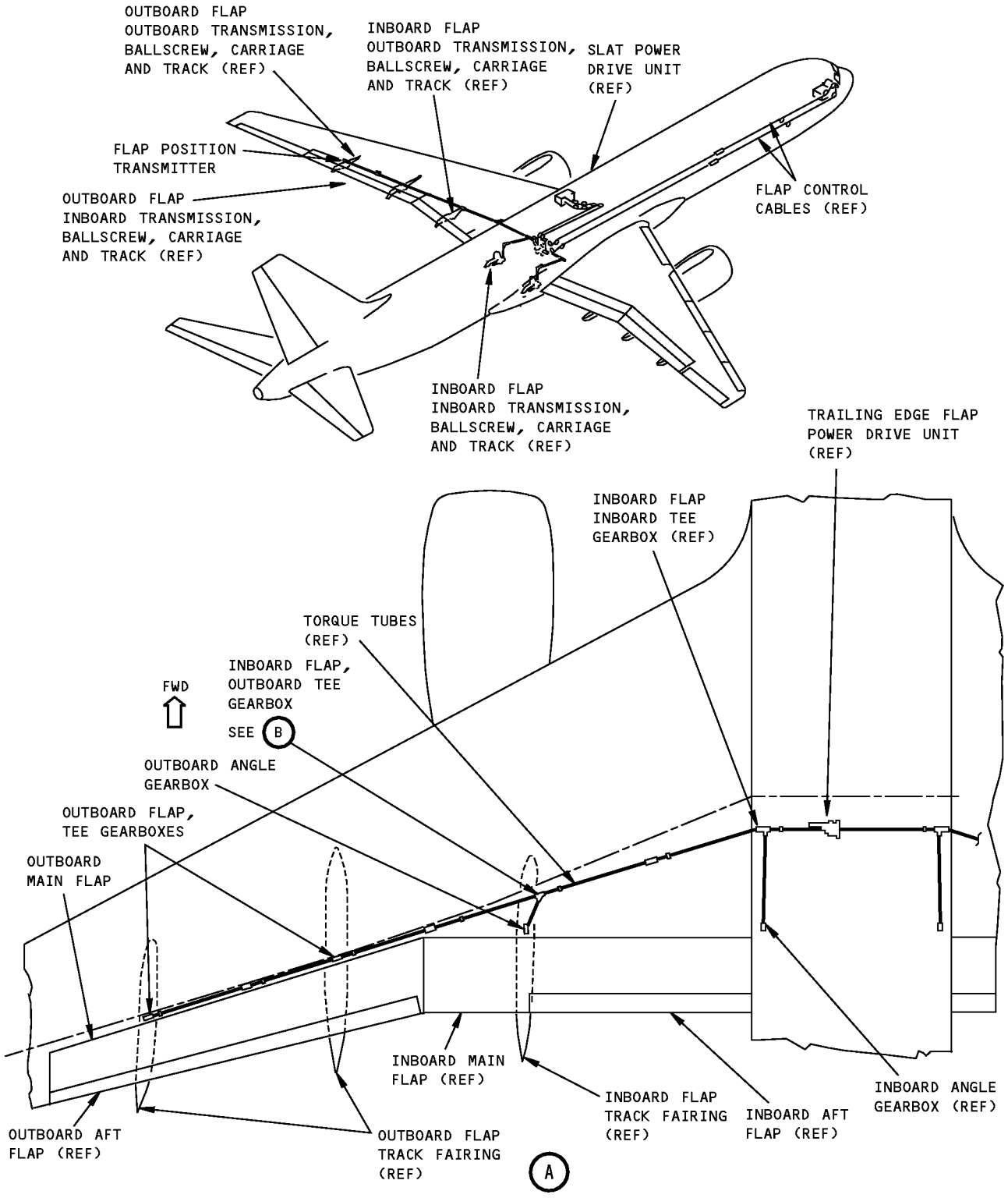
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B27042-1 overhaul and test equipment is used during component maintenance on all 757 airplanes. B27042 is used to hold the flap tee gearbox assembly during assembly/disassembly and gear backlash tests. B27042 is used in conjunction with a customer-furnished torque wrench and dial indicator during gear backlash tests. Refer to CMM 27-51-28 for complete usage instructions. B27042-1 consists of:

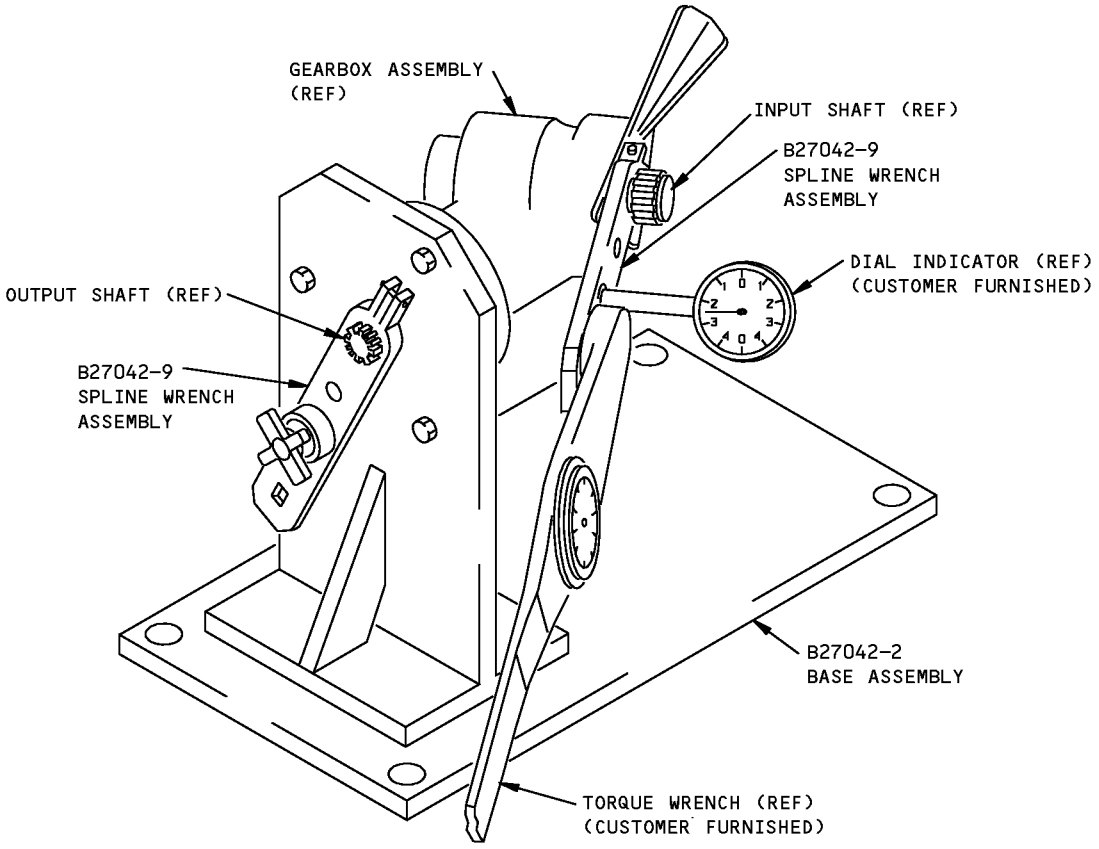
B27042-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	BASE ASSEMBLY	B27042-2
1	SPLINE WRENCH ASSEMBLY	B27042-9
1	HAND KNOB	CL-10-HK-2
3	BOLT	AN4-11A
6	WASHER	AN960-416
3	NUT	MS21044N4
4	NUT	MS35691-5
1	STORAGE BOX	

WEIGHT: 12 lbs (5.4 kg)

DIMENSIONS: 7 x 9 x 12 inches (178 x 229 x 305 mm)



Inboard Flap Outboard Tee Gearbox Overhaul And Test Equipment
Figure 1 (Sheet 1 of 2)



Inboard Flap Outboard Tee Gearbox Overhaul And Test Equipment
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27030-125

NAME: RIGGING BAR EQUIPMENT - INBOARD AND OUTBOARD FLAPS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27030-125 rigging bar equipment is used on all 757 airplanes. The B27030 is used for adjustment or test for correct rigging of the inboard and outboard flaps. B27030-125 consists of four different rigging bars, B27030 - 126,-127, -128 and -129.

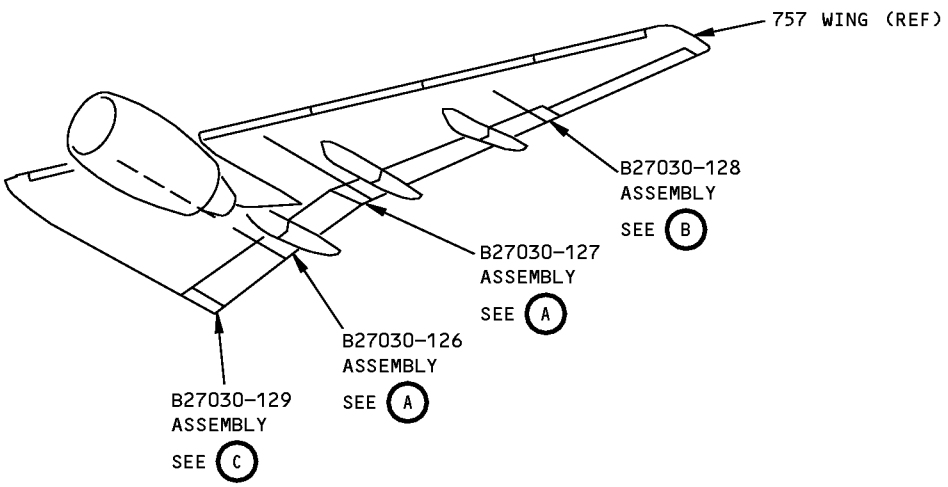
The B27030-126 rigging bar is used for the outboard end of the inboard flaps. The B27030-129 rigging bar is used for the inboard end of the inboard flaps. For the B27030-126 and -129 usage, refer to AMM 27-51-02 for complete instructions.

The B27030-127 rigging bar is used for the inboard end of the outboard flaps. The B27030-128 rigging bar is used for the outboard end of the outboard flaps. For the B27030-127 and -128 usage, refer to AMM 27-51-14 for complete instructions.

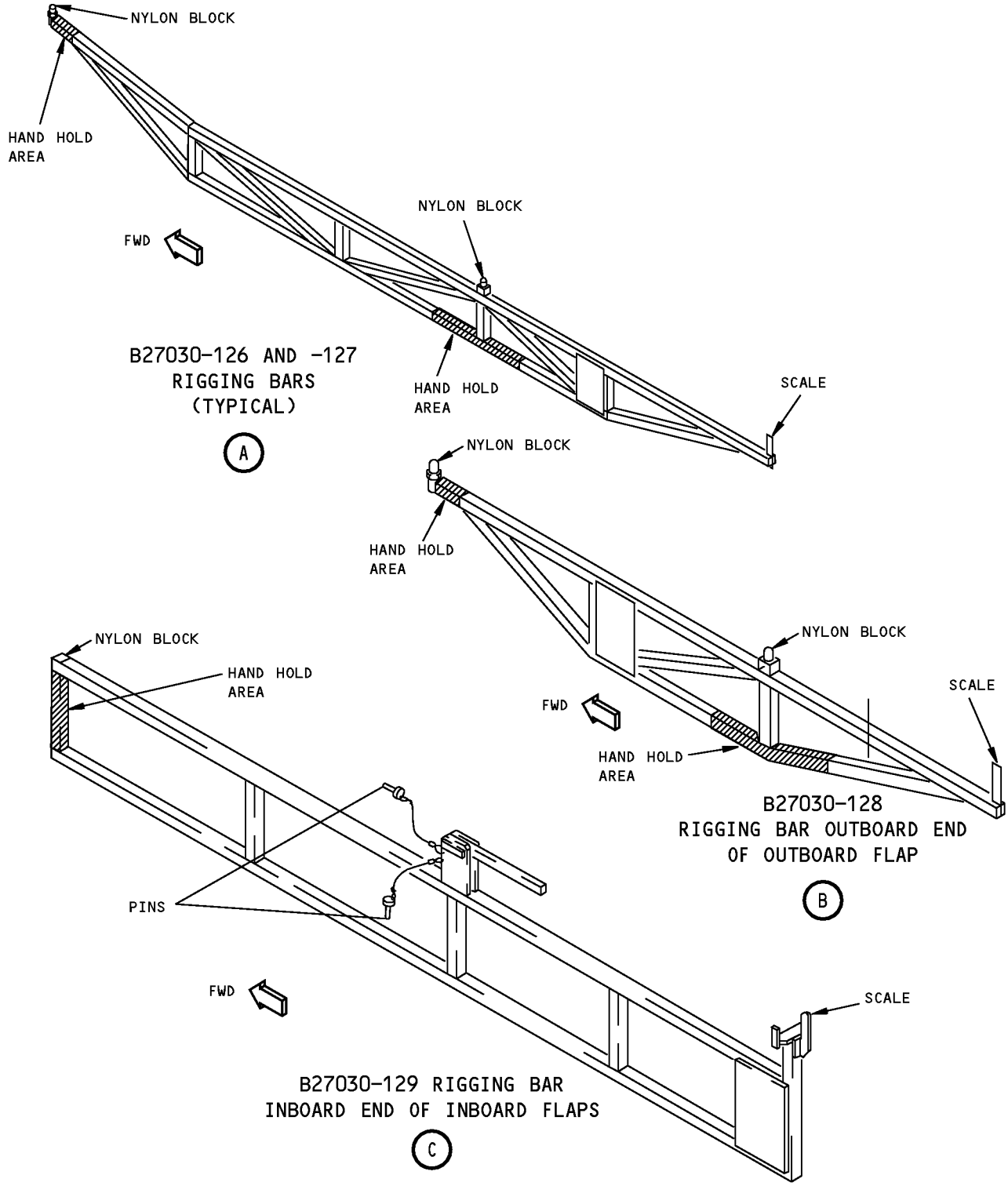
WEIGHT:
B27030-126 45 lbs (20 kg)
B27030-127 35 lbs (16 kg)
B27030-128 25 lbs (11 kg)
B27030-129 30 lbs (14 kg)

DIMENSIONS:
B27030-126 6 x 25 x 218 inches (152 x 635 x 5537 mm)
B27030-127 6 x 20 x 160 inches (152 x 508 x 4064 mm)
B27030-128 6 x 19 x 115 inches (152 x 483 x 2921 mm)
B27030-129 6 x 30 x 160 inches (152 x 762 x 4064 mm)

NOTE: B27030-125 supersedes B27030-112.



Inboard And Outboard Flaps Rigging Bar Equipment
Figure 1 (Sheet 1 of 2)



Inboard And Outboard Flaps Rigging Bar Equipment
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27035-63

NAME: TEST EQUIPMENT - TRAILING EDGE FLAP TRANSMISSION, AFT U-JOINT AND BALLSCREW

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

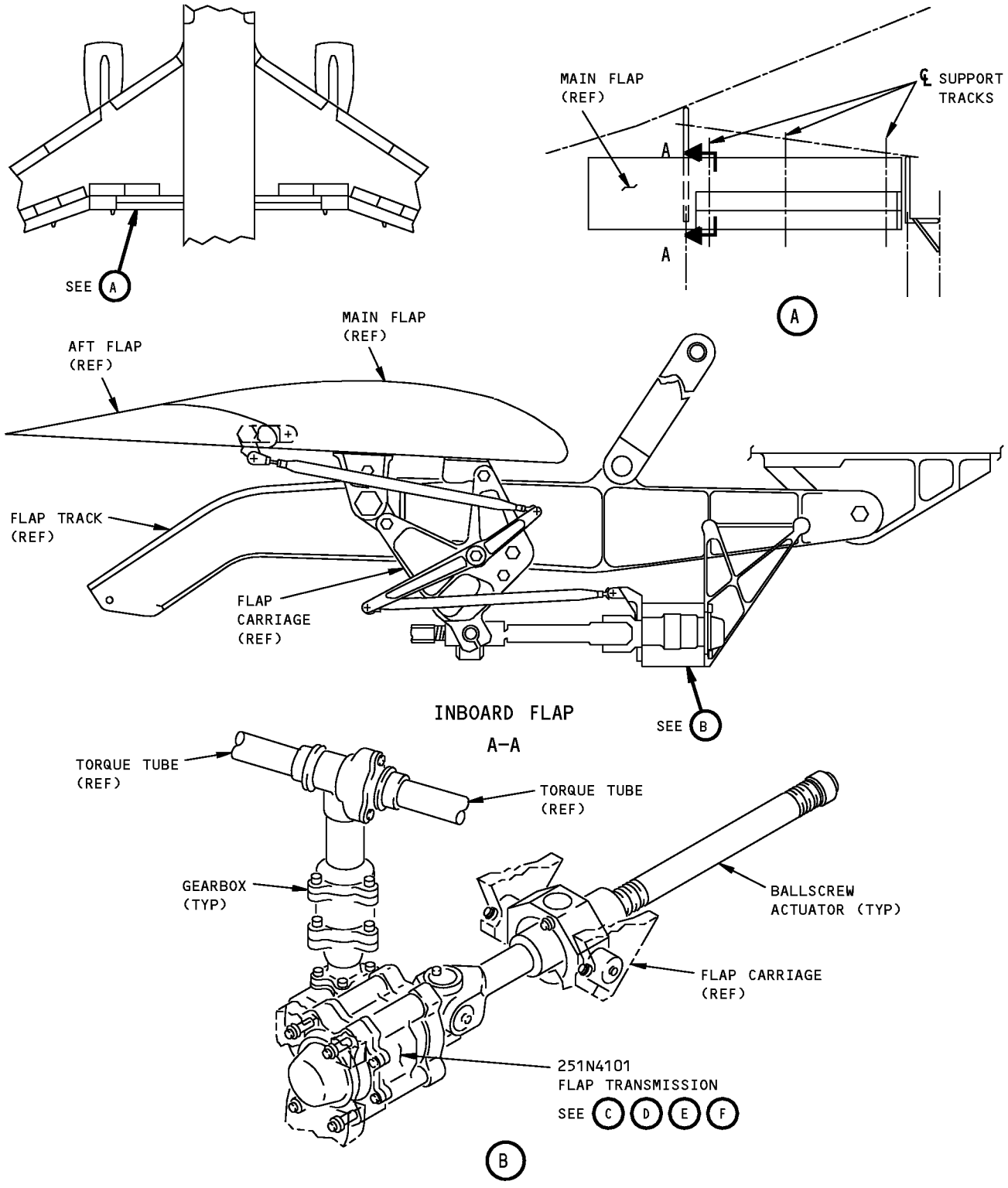
USAGE & DESCRIPTION: The B27035-63 test equipment is used during component maintenance on all 757 airplanes. B27035 is used to hold the trailing edge flap transmission, aft U-joint and ballscrew assembly during functional test. Refer to CMM 27-51-12 and CMM 27-51-13 for complete usage instructions. B27035-63 consists of:

B27035-63		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	TEST FIXTURE ASSEMBLY	B27035-64
1	JAW ASSEMBLY	B27035-17
1	JAW	B27035-19
2	COLLAR	B27035-33
1	ADAPTER ASSEMBLY	B27035-34
1	LOCK ASSEMBLY	B27035-35
1	PROTRACTOR ASSEMBLY	B27035-48
1	PUMP ASSEMBLY	B27035-49
2	WASHER	AN960-416
4	WASHER	AN960-716
4	BOLT	NAS1307-129
4	NUT	NAS1804-7
4	BOLT	NAS6704-11
2	LOAD CELL	LH-2506
1	STORAGE BOX	

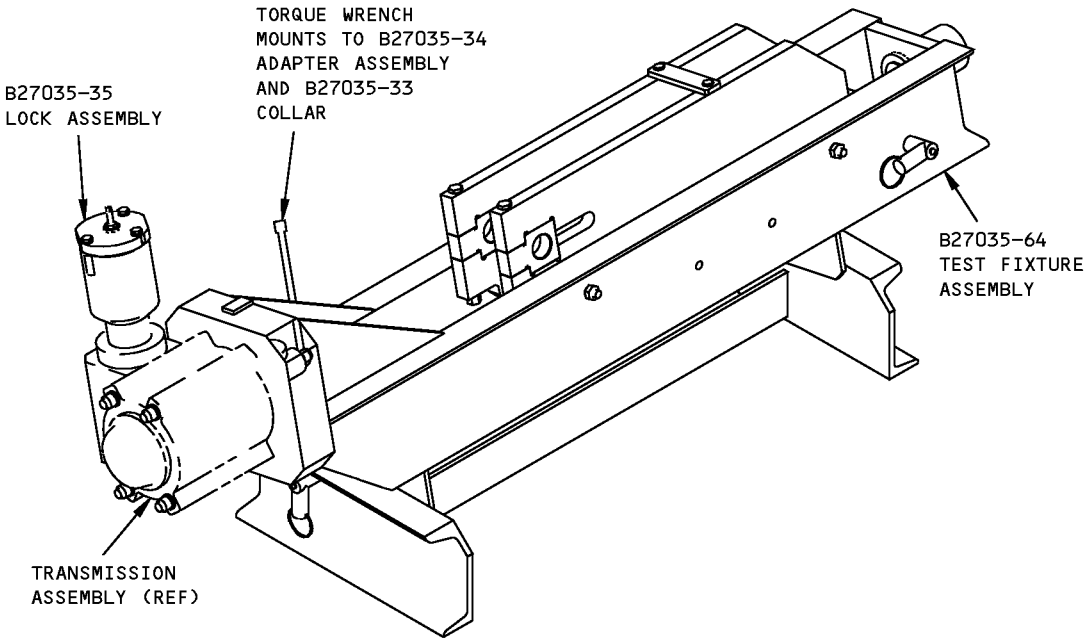
WEIGHT: 210 lbs (95 kg)

DIMENSIONS: 15 x 18 x 50 (381 x 457 x 1270 mm)

NOTE: B27035-63 supersedes B27035-46.



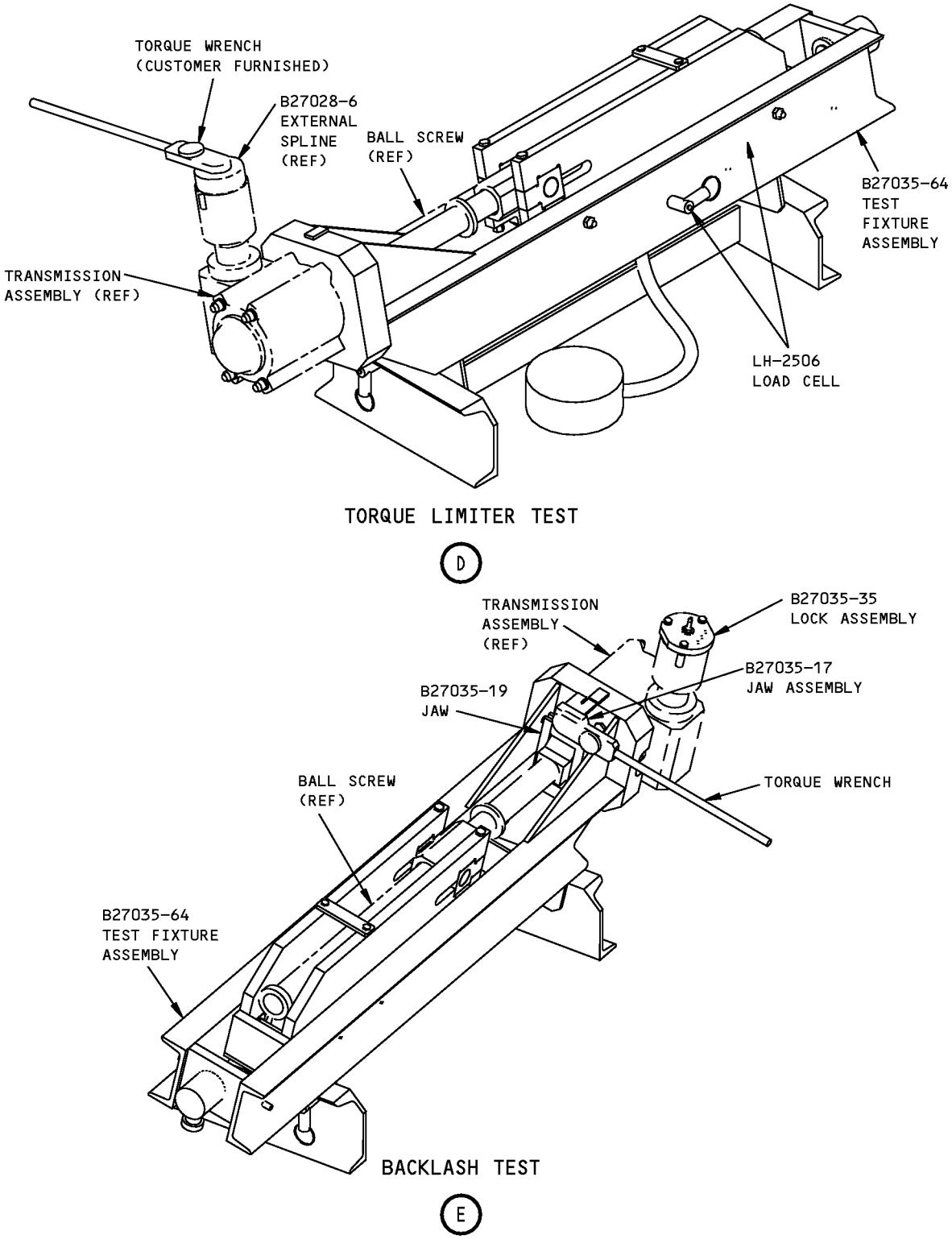
Aft U-Joint and Ballscrew Trailing Edge Flap Transmission Test Equipment
Figure 1 (Sheet 1 of 4)



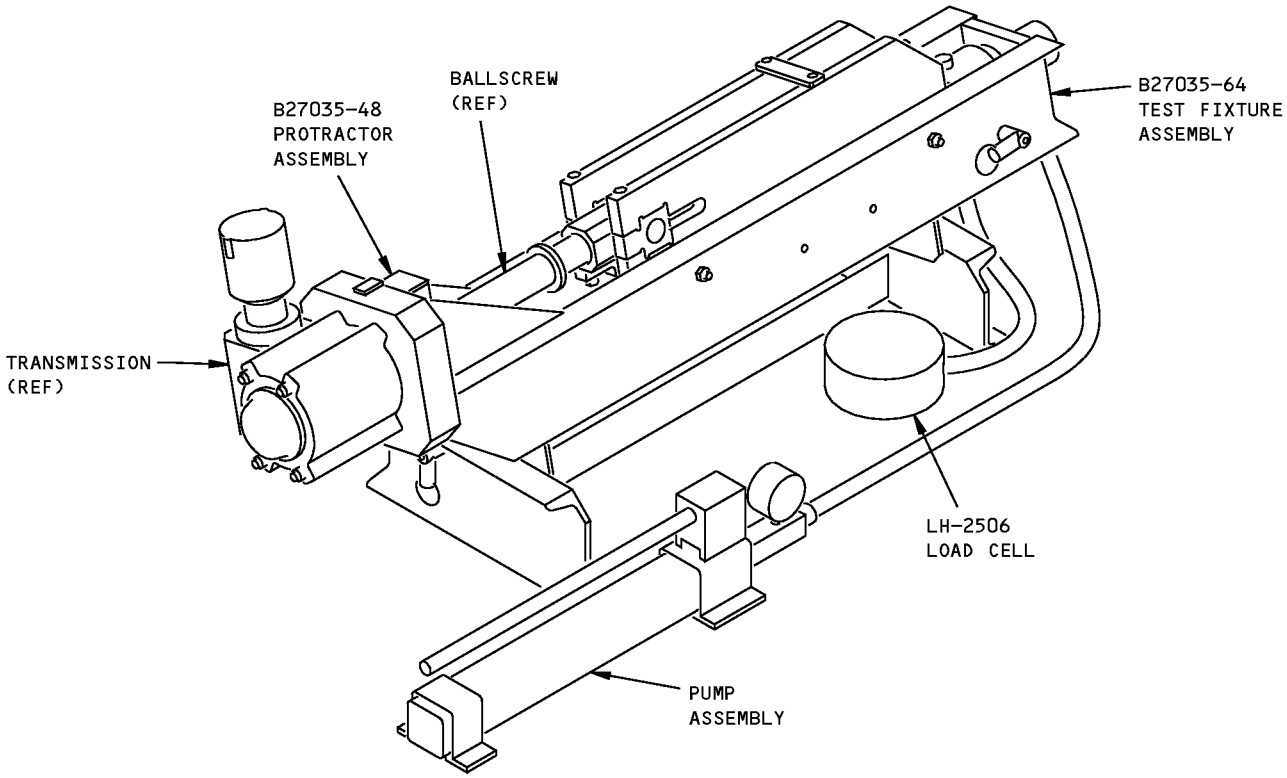
BACKLASH TEST AND TEST FIXTURE ADJUSTMENT

C

Aft U-Joint and Ballscrew Trailing Edge Flap Transmission Test Equipment
Figure 1 (Sheet 2 of 4)



Aft U-Joint and Ballscrew Trailing Edge Flap Transmission Test Equipment
Figure 1 (Sheet 3 of 4)



Aft U-Joint and Ballscrew Trailing Edge Flap Transmission Test Equipment
Figure 1 (Sheet 4 of 4)

PART NUMBER: F70300-1

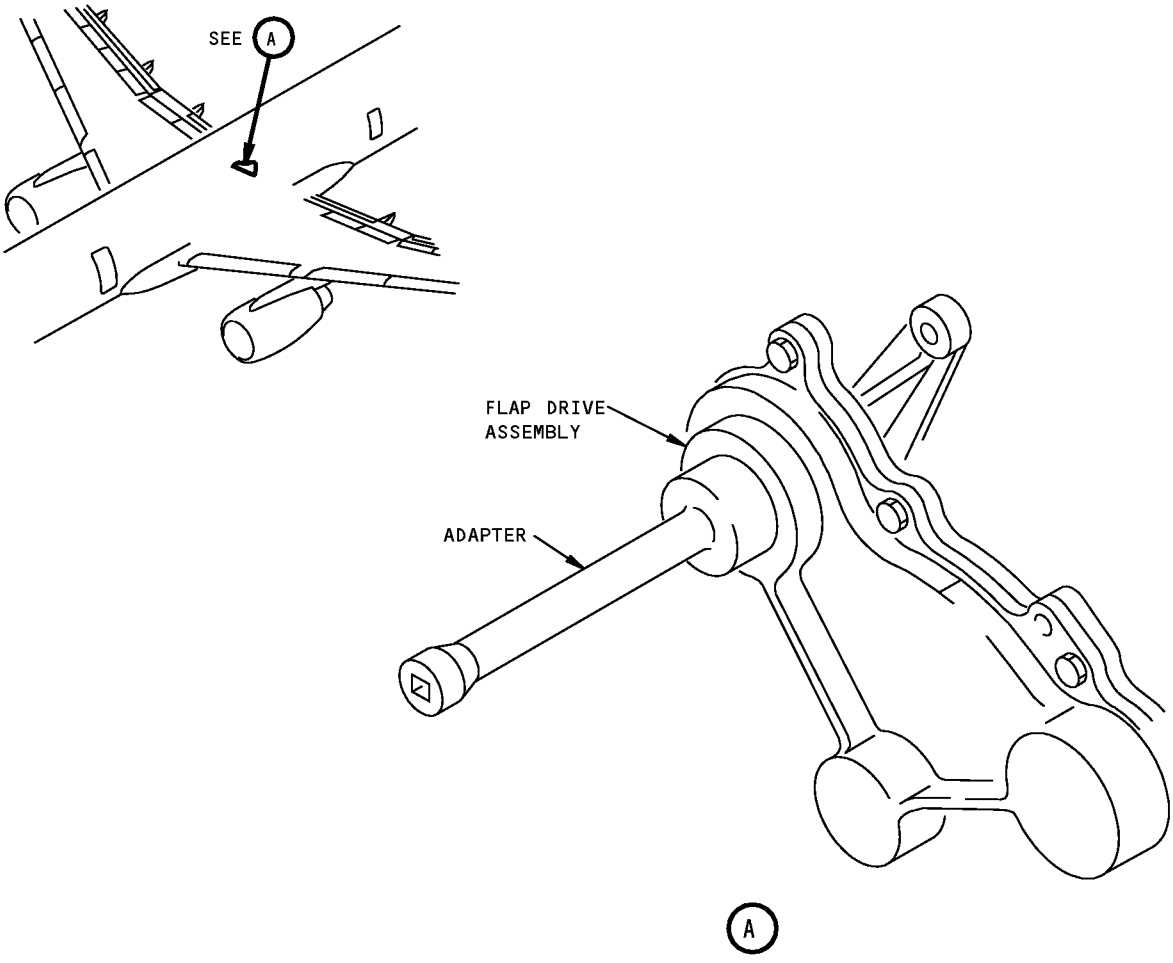
NAME: FLAP DRIVE ADAPTER

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The F70300-1 flap drive adapter is used on all 757 airplanes. F70300 fits on the external spline of the flap torque tube. F70300 is used with a customer-furnished 1/2-inch drive, air motor to extend or retract trailing edge flaps when airplane power is not available. Refer to AMM 27-51-22 for usage instructions. F70300-1 is a modified 1/2-inch square drive extension bar with splined sleeve weldment.

DIMENSIONS: 3 x 11 inches (76 x 279 mm)



Flap Drive Adapter
Figure 1

PART NUMBER: A27036-16

NAME: TEST BOX - FLAP/SLAT ELECTRONIC UNIT (FSEU) POWER SUPPLY/YAW DAMPER ELECTRO MAGNETIC INTERFERENCE (EMI) FILTER

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

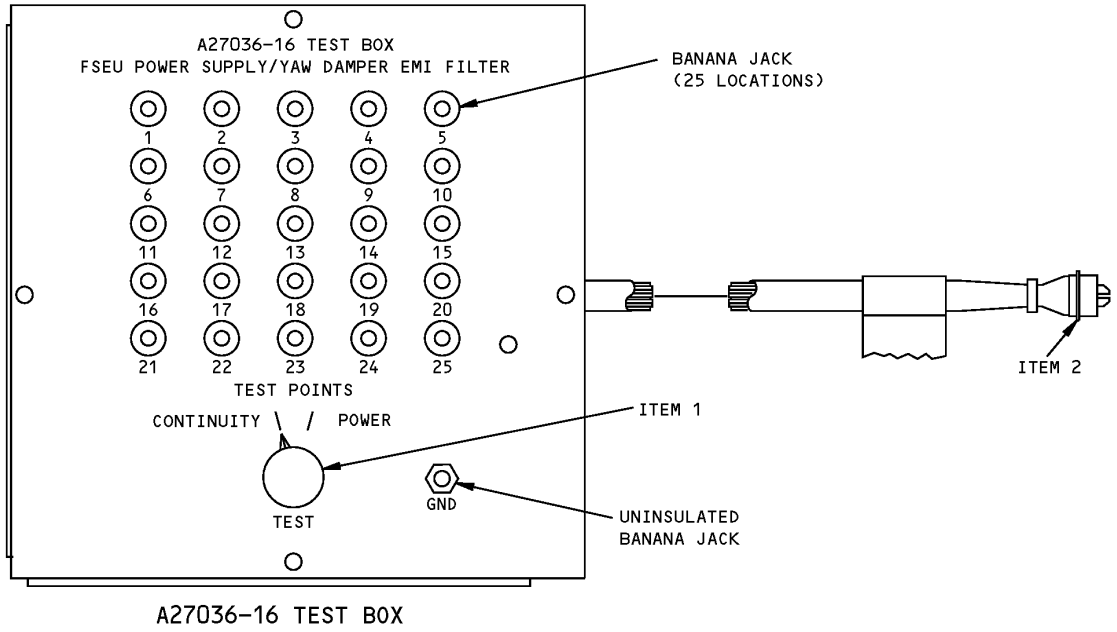
USAGE & DESCRIPTION: The A27036 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A27036 inclusion in the 757 ITEM is for information and historical purposes only.

The A27036-16 test box is used during component maintenance on 757-200 airplanes only. The applicability to test 285T0374 is limited to 757-200 airplanes prior to line number 200, except line numbers 196 and 198. A27036-16 is used as a breakout box to test the FSEU power supply, 285T0286. Refer to CMM 27-51-65 for complete usage instructions. A27036-16 is also used as a breakout box to test the yaw damper EMI filter assembly, 285T0374. Refer to CMM 22-21-65 for complete usage instructions. A27036-16 consists of switches, connectors and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 2 lbs (0.9 kg)

DIMENSIONS: 6 x 10 x 14 inches (152 x 254 x 356 mm)

NOTE: A27036-16 replaced by B22002-1 for future procurement.



FSEU Power Supply/Yaw Damper EMI Filter Test Box
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	PS119	SWITCH	V71950
2	DB-25P	CONNECTOR	V71468

PART NUMBER: B57001-1, -23

NAME: INSTALLATION/REMOVAL EQUIPMENT - TORQUE TUBE, INBOARD TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: YES

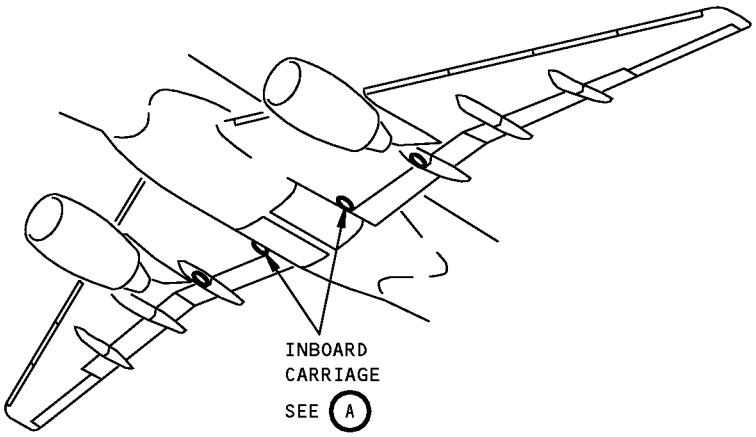
USAGE & DESCRIPTION: The B57001-1 or -23 installation/removal equipment is used on all 757 airplanes. B57001 is used to hold spacers and bolts in position for installation in torque tubes of the carriage and inboard trailing edge flaps. Refer to the current B57001 drawing, AMM 27-51-05 and CMM 57-53-43 for complete usage instructions. B57001-23 consists of:

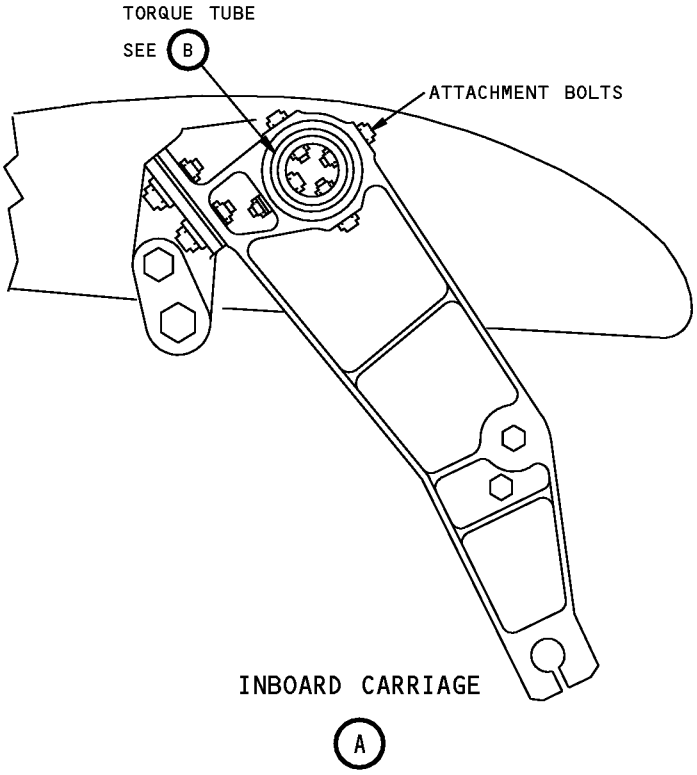
B57001-23		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	HOLDER ASSEMBLY	B57001-2
1	DRIVER ASSEMBLY	B57001-16
1	TUBE LOCATOR	B57001-13
2	SPACER LOCATOR	B57001-14
1	HOLDER ASSEMBLY	B57001-17
1	TORQUE DRIVER	HTS-6
1	STORAGE BOX	

WEIGHT: 20 lbs (9 kg)

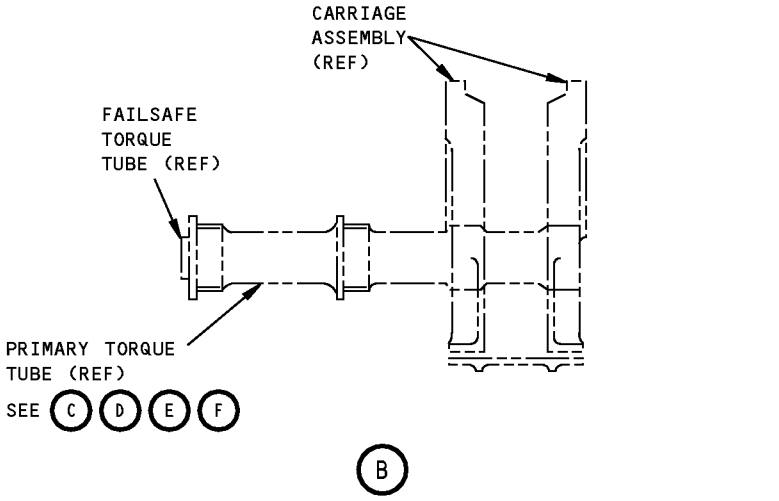
DIMENSIONS: 4 x 16 x 21 inches (102 x 406 x 533 mm)

NOTE: B57001-23 replaces B57001-1 for future procurement

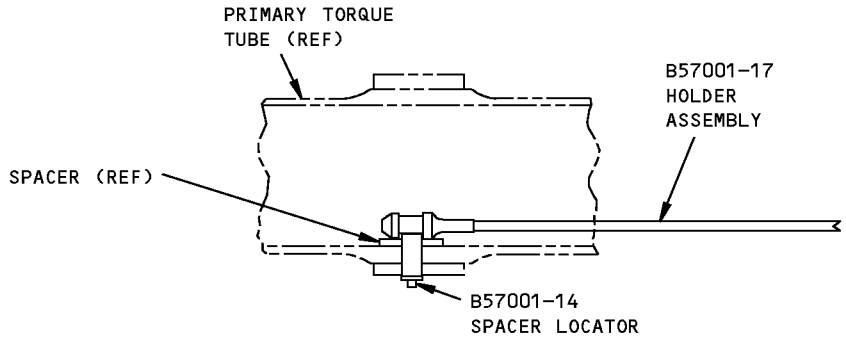




Inboard Trailing Edge Flap Torque Tube Installation/Removal Equipment
Figure 1 (Sheet 1 of 3)

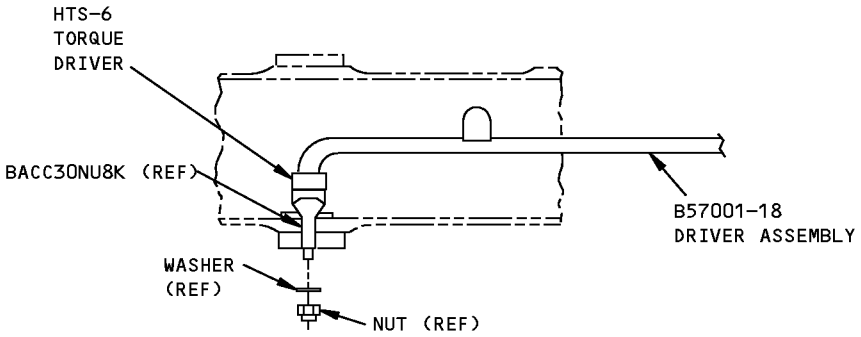


Inboard Trailing Edge Flap Torque Tube Installation/Removal Equipment
Figure 1 (Sheet 2 of 3)



SPACER LOCATION
AND
INSTALLATION/REMOVAL

E



MOUNT BOLT FASTENING

F

Inboard Trailing Edge Flap Torque Tube Installation/Removal Equipment
Figure 1 (Sheet 3 of 3)

PART NUMBER: B27055-1

NAME: CLAMP SET - TRAILING EDGE FLAP TORQUE TUBE

AIRPLANE MAINTENANCE: YES

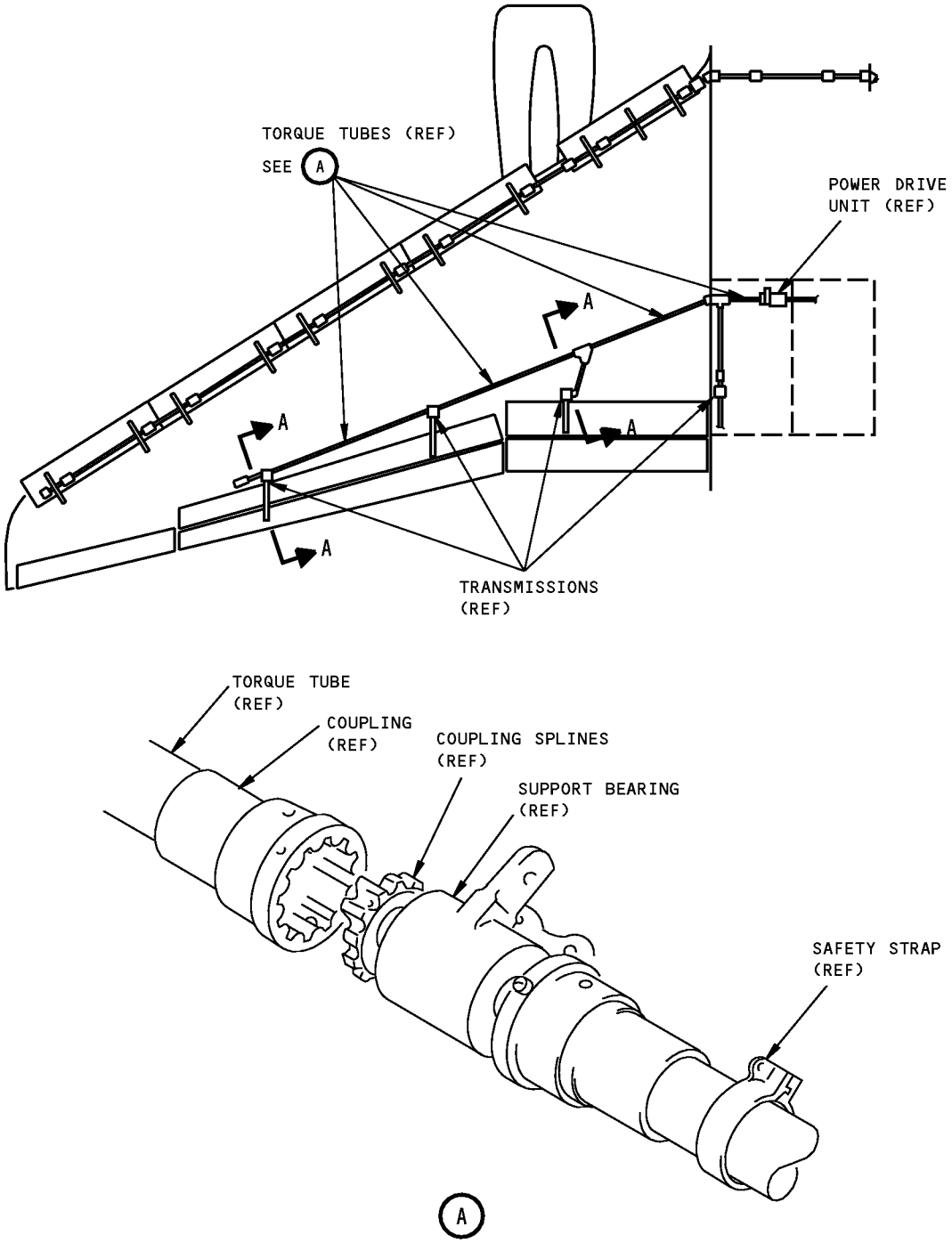
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27055-1 clamp set is used on all 757 airplanes. B27055 is used to clamp used to clamp the trailing edge flap torque tubes during maintenance to prevent rotation and to avoid re-rigging. Refer to AMM 27-51-00, AMM 27-51-02, AMM 27-51-06, AMM 27-51-07, AMM 27-51-08, AMM 27-51-09, AMM 27-51-10, AMM 27-51-14, AMM 27-51-17, AMM 27-51-18, AMM 27-51-25, AMM 27-51-26, AMM 27-51-28, AMM 27-51-29 and AMM 27-51-34 for complete usage instructions. B27055-1 consists: of three B27055-2 clamp assemblies and two B27055-3 clamp assemblies, both contained in a storage box.

B27055-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
3	CLAMP ASSEMBLIES	B27055-2
2	CLAMP ASSEMBLIES	B27055-3
1	STORAGE BOX	

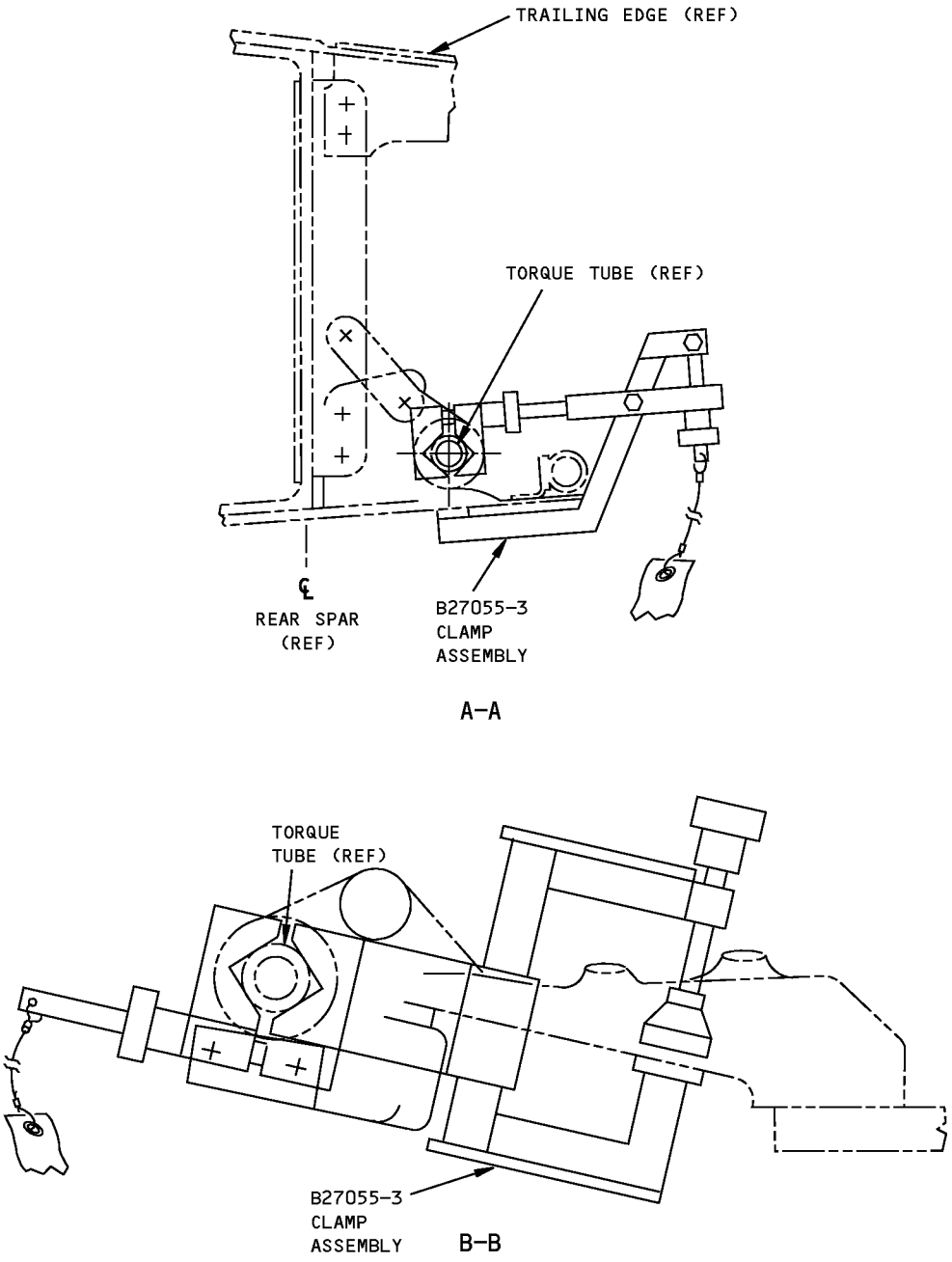
WEIGHT: 30 lbs (14 kg)

DIMENSIONS: 16 x 16 x 20 inches (406 x 406 x 508 mm)



TORQUE TUBE DETAILS

CLAMP SET - TRAILING EDGE FLAP TORQUE TUBE
Figure 1 (Sheet 1 of 2)



CLAMP SET - TRAILING EDGE FLAP TORQUE TUBE
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27067-1

NAME: SLING EQUIPMENT - TRAILING EDGE FLAP POWER DRIVE UNIT REMOVAL/ INSTALLATION

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

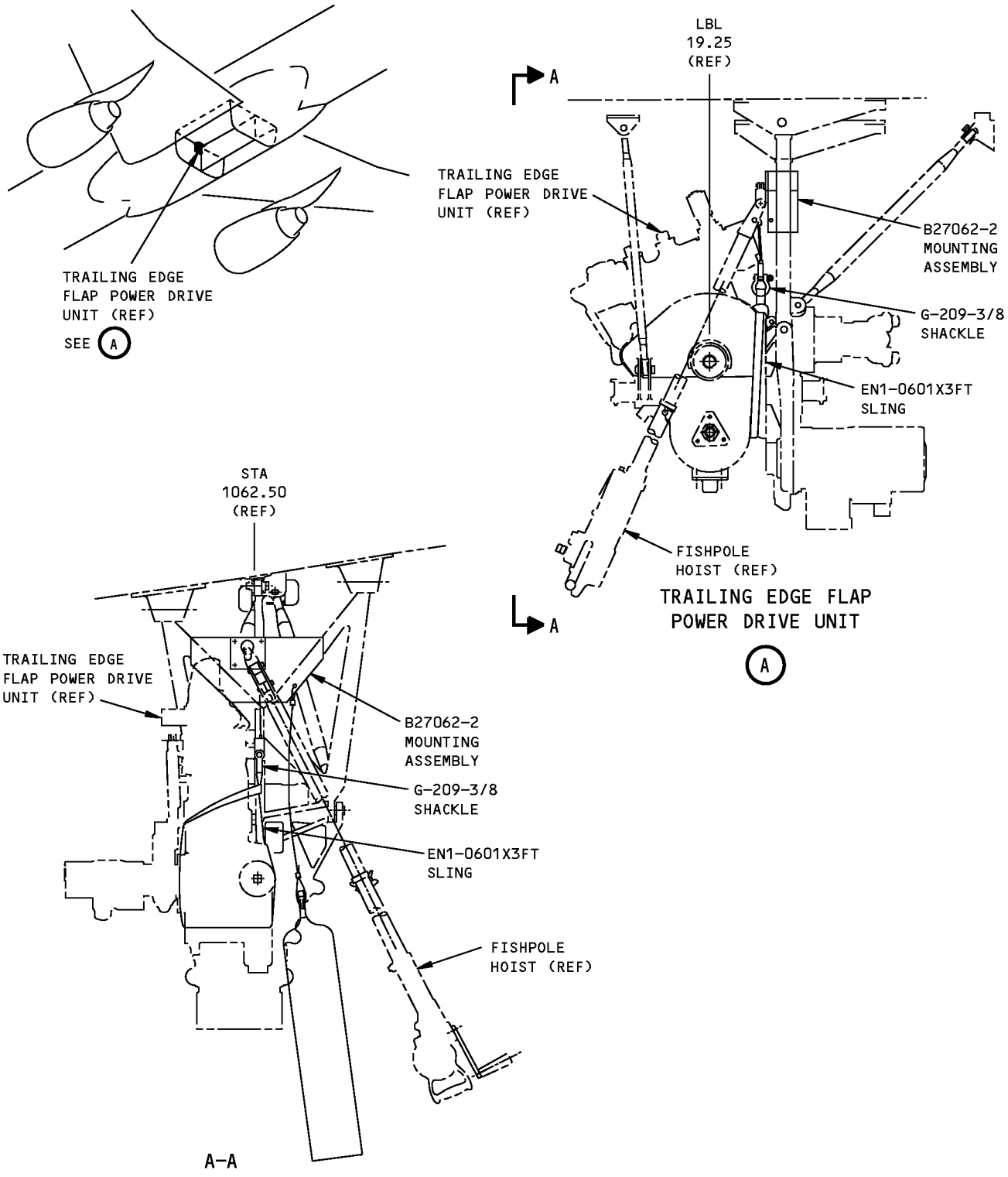
USAGE & DESCRIPTION: The B27067-1 sling equipment is used on all 757 airplanes. B27067 is used to remove and install the trailing edge power drive unit. Refer to AMM 27-51-26 for complete usage instructions. B27067-1 consists of:

B27067-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	MOUNTING ASSEMBLY	B27067-2
1	SHACKLE	G-209-3/8
1	SLING	ENI-0601X3FT*[1]
1	STORAGE BOX	

*[1] ENI-601X3FT OPTIONAL

WEIGHT: 5 lbs (2.3 kg)

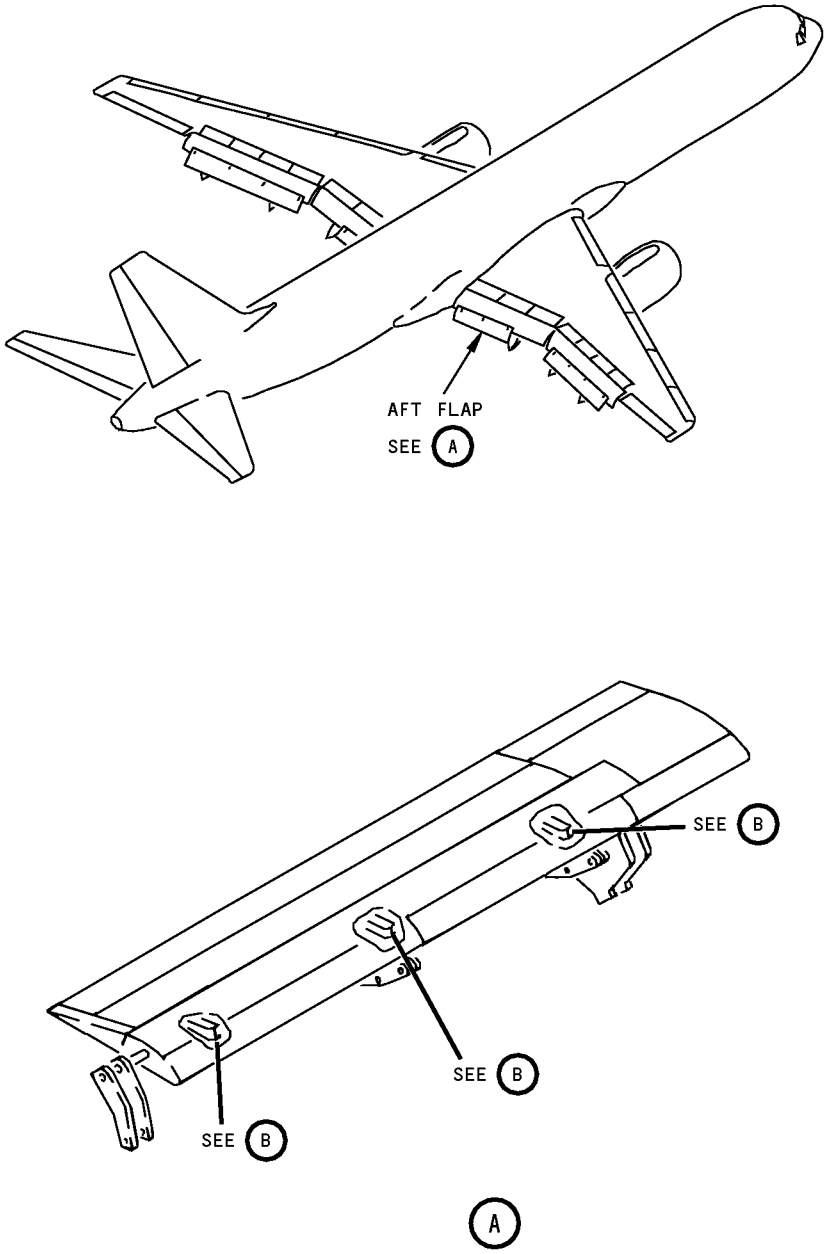
DIMENSIONS: 8 x 8 x 12 inches (208 x 208 x 305 mm)



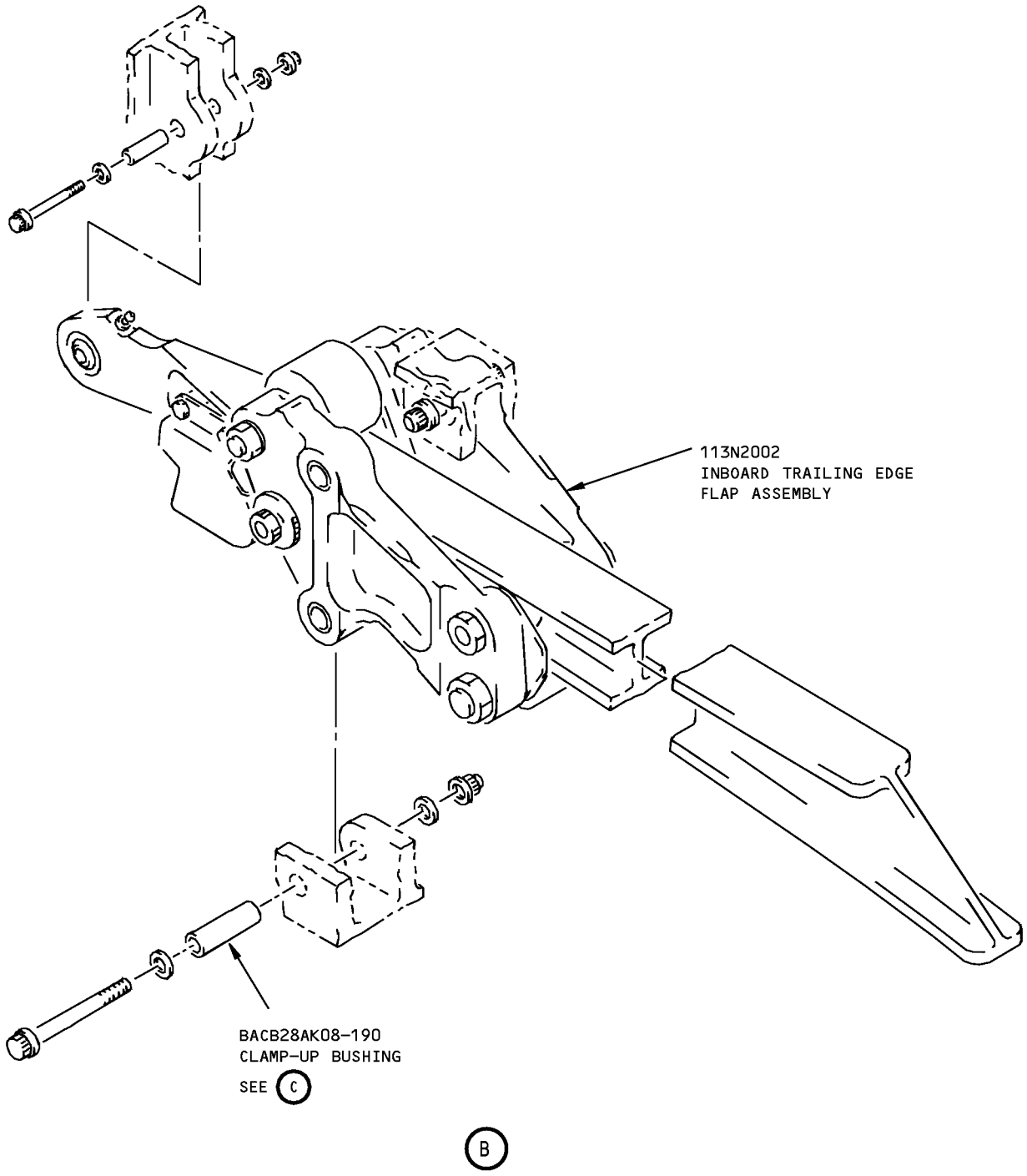
Trailing Edge Flap Power Drive Unit Removal/Installation Sling Equipment
Figure 1

PART NUMBER: B57002-1

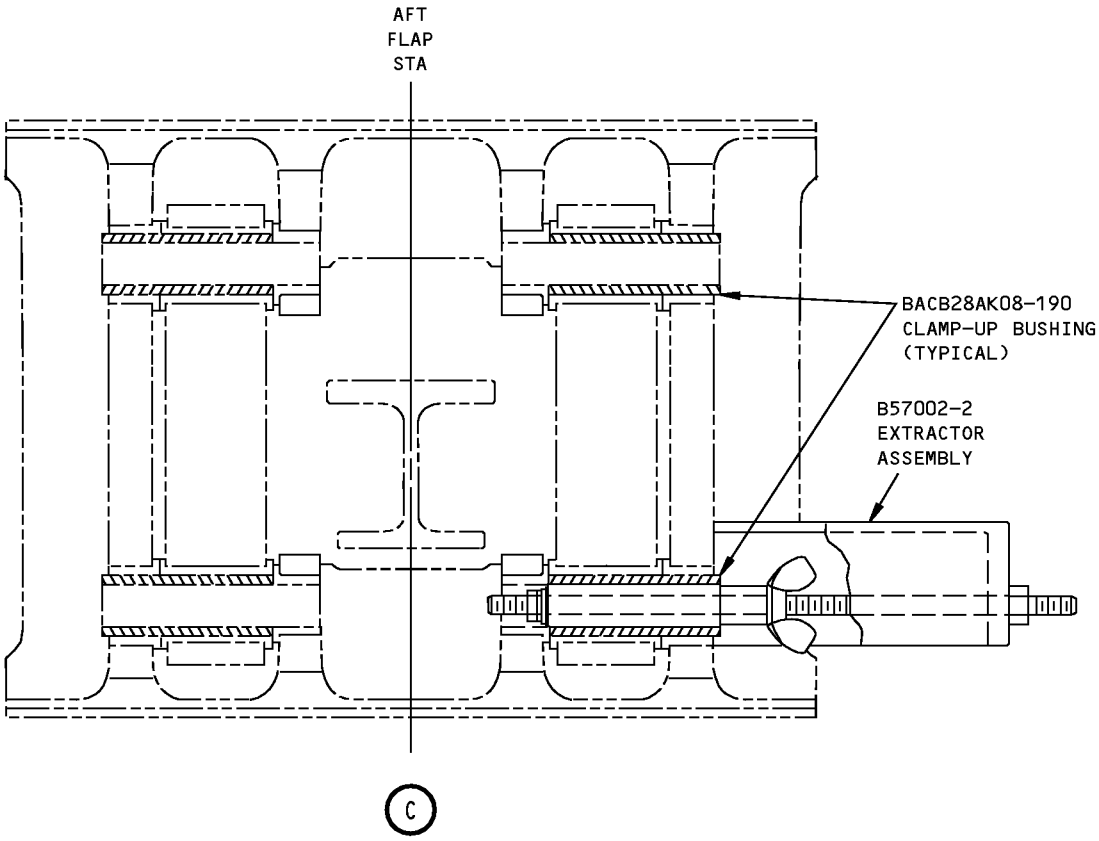
NAME:	EXTRACTION TOOL - CLAMP-UP BUSHING, AFT FLAP SUPPORT
AIRPLANE MAINTENANCE:	YES
COMPONENT MAINTENANCE:	YES
USAGE & DESCRIPTION:	The B57002-1 extraction tool is used on all 757 airplanes. B57002 is used to remove the BACB28AK08-190 clamp-up bushings from the trailing edge flaps. Refer to the current B57002 drawing, AMM 27-51-31 and CMM 27-53-43 for complete usage instructions. B57002-1 consists of a B57002-2 extractor assembly contained in a storage box.
WEIGHT:	1 lb (0.45 kg)
DIMENSIONS:	2 x 2 x 7 inches (51 x 51 x 178 mm)



Aft Flap Support Clamp-Up Bushing Extraction Tool
Figure 1 (Sheet 1 of 3)



Aft Flap Support Clamp-Up Bushing Extraction Tool
Figure 1 (Sheet 2 of 3)



Aft Flap Support Clamp-Up Bushing Extraction Tool
Figure 1 (Sheet 3 of 3)

PART NUMBER: B27069-1 WAS MOVED TO 27-30-23

PART NUMBER: B27072-1

NAME: ADAPTER KIT - OUTBOARD/AFT, FLAP SLING

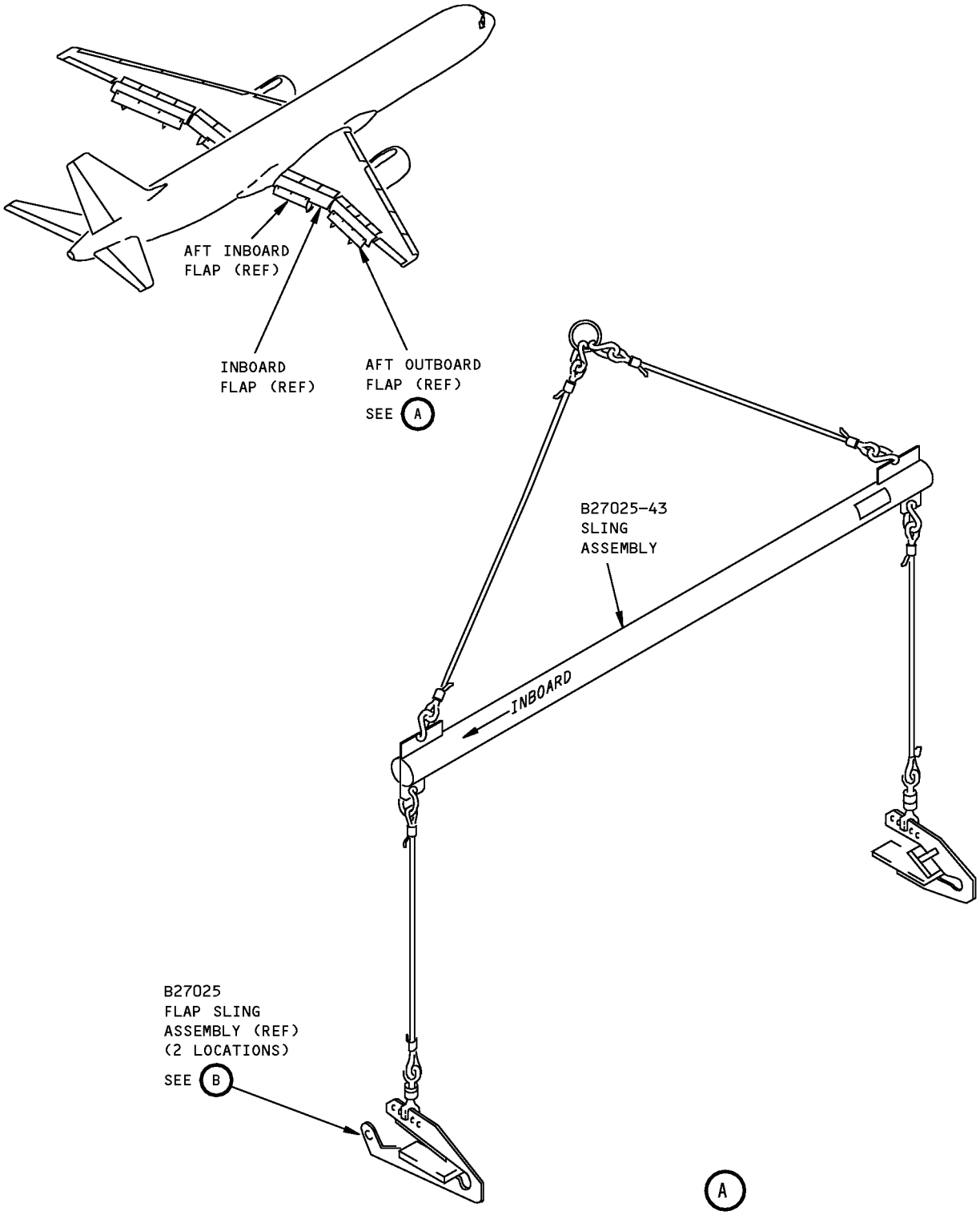
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

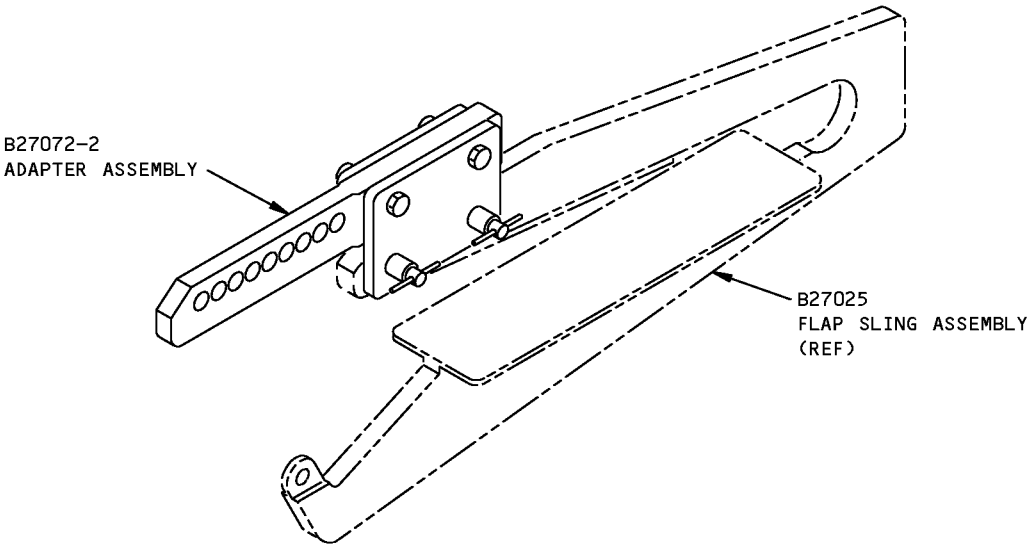
USAGE & DESCRIPTION: The B27072-1 adapter kit may be used on all 757 airplanes. B27072 is used to modify the superseded B27025-1 sling equipment into the current B27025-42 sling equipment. A B27072-2 flap sling assembly is added to each of the B27025-8 flap sling assemblies to make the equivalent B27025-44 flap hold assembly. The B27025-42 sling equipment can then be used for removal or installation of the outboard aft flaps from the main flap assembly in the extended position. Refer to the current B27072, B27025 drawings and AMM 27-50-12 for complete usage instructions. B27072-1 consists of two B27072-2 adapter assemblies contained in a storage box.

WEIGHT: 7 lbs (3.2 kg)

DIMENSIONS: 4 X 6 X 17 inches (102 x 152 x 432 mm)



Outboard/Aft, Flap Sling Adapter Kit
Figure 1 (Sheet 1 of 2)



Outboard/Aft, Flap Sling Adapter Kit
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27074-1

NAME: HARNESS ASSEMBLY - BALLSCREW, INBOARD TRAILING EDGE FLAP

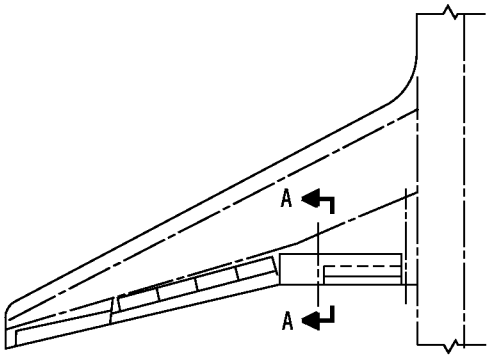
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

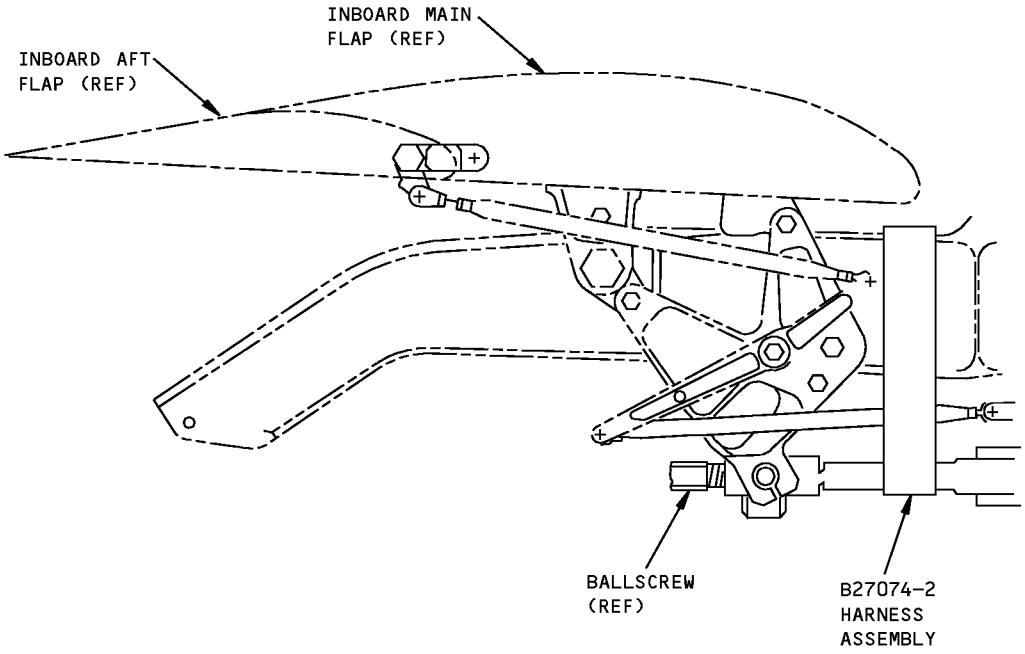
USAGE & DESCRIPTION: The B27074-1 harness assembly is used on all 757 airplanes. B27074 is used to support the inboard trailing edge flap ballscrew when removing the flap. B27074 is a polyester strap with velcro hooks and loops used to secure the trailing edge flap ballscrew. Refer to AMM 27-51-02 for complete usage instructions. B27074 -1 consists of a B27074-2 harness assembly contained in a storage box.

WEIGHT: 3 lbs (1.4 kg)

DIMENSIONS: 3 x 48 inches (76 x 1219 mm)



LEFT WING PLAN VIEW



A-A

Inboard Trailing Edge Flap Ballscrew Harness Assembly
Figure 1

PART NUMBER: B27076-6

NAME: PRESSURE GAGE - DEPRESSURIZATION MODULE PRIORITY VALVE, FLAP/SLAT

AIRPLANE MAINTENANCE: YES

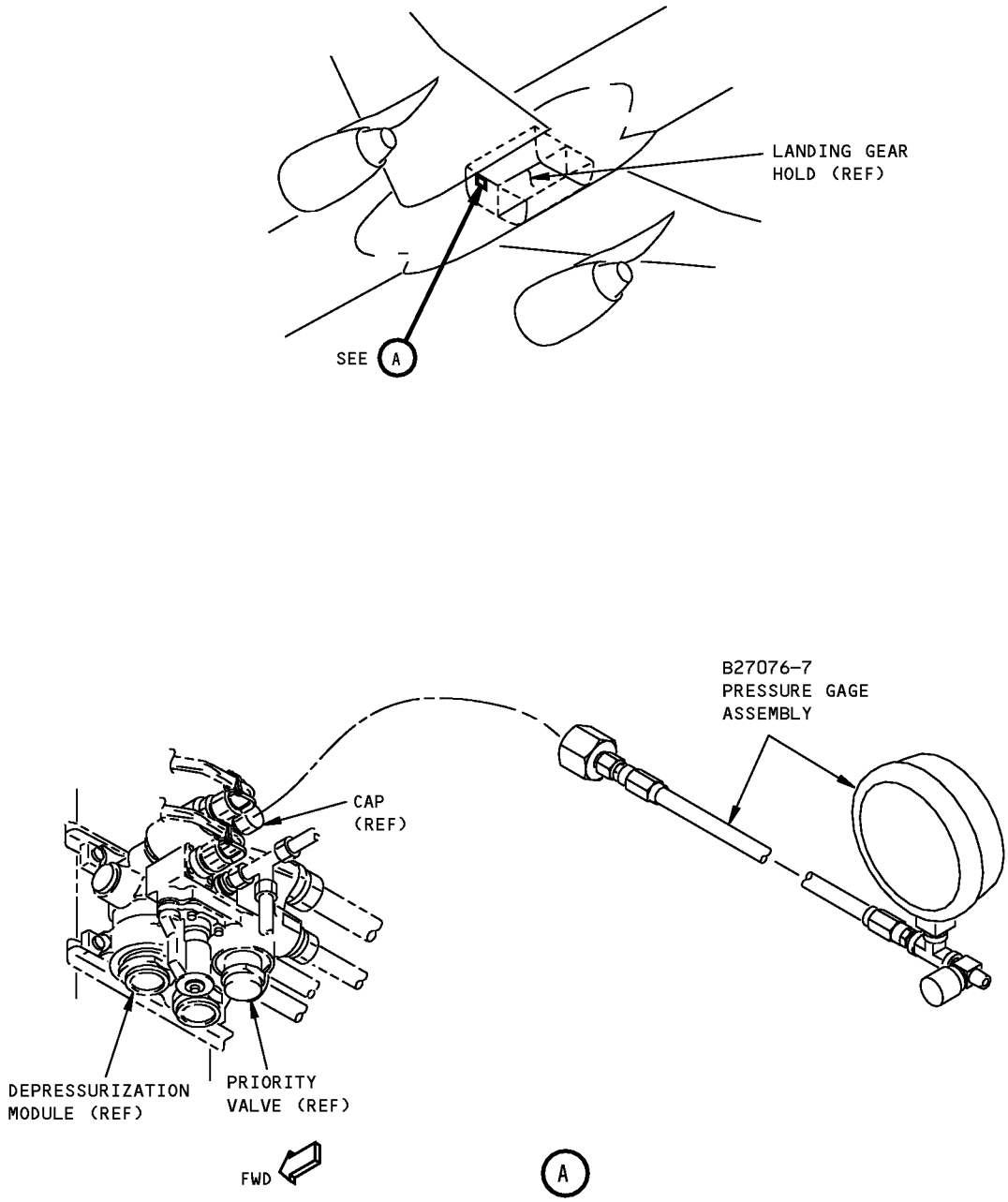
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27076-6 pressure gage is used on all 757 airplanes. B27076 is used to bleed and check pressure at the priority valve of the flap/slat depressurization module. Refer to AMM 27-51-29 for complete usage instructions. B27076-6 consists of a B27076-7 pressure gage assembly contained in a storage box.

WEIGHT: 7 lbs (3.2 kg)

DIMENSIONS: 10 x 24 x 24 (254 x 610 x 610 mm))

NOTE: B27076-6 supersedes B27076-1.



Flap/Slat Depressurization Module Priority Valve Pressure Gage
Figure 1

PART NUMBER: B27075-1, -20

NAME: HOIST ADAPTER - INSTALLATION/REMOVAL, FLAP TRACK

AIRPLANE MAINTENANCE: YES

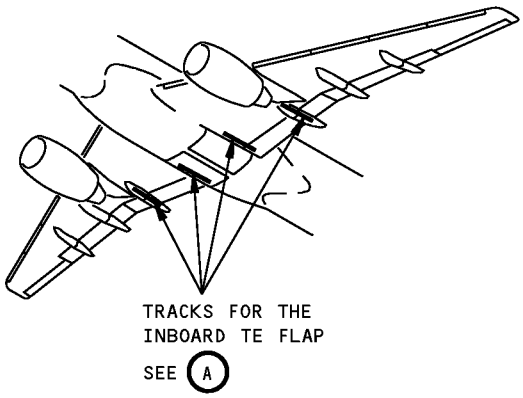
COMPONENT MAINTENANCE: NO

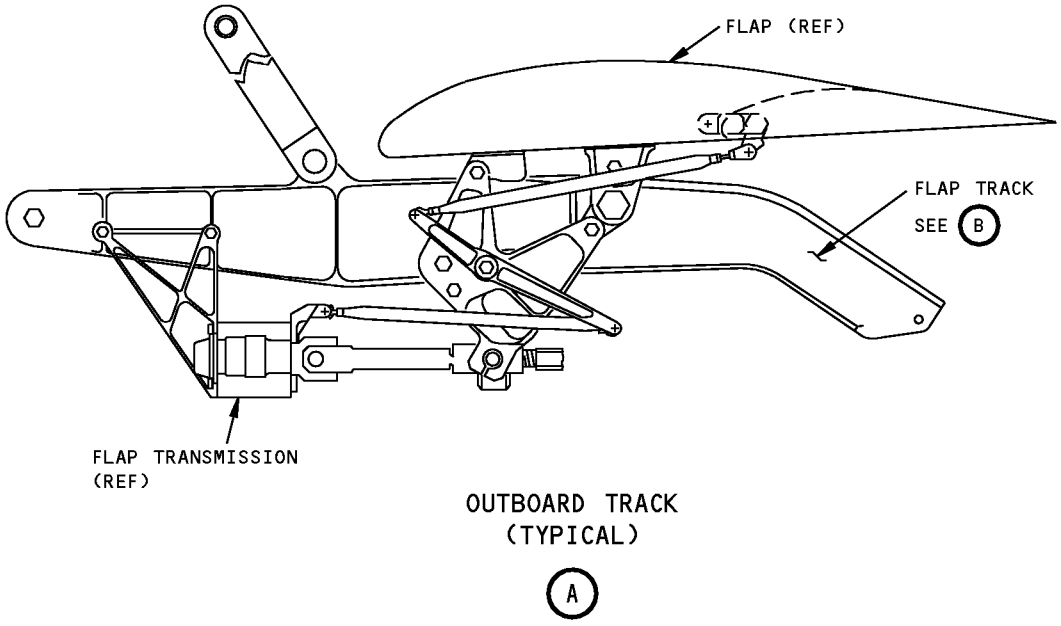
USAGE & DESCRIPTION: The B27075-1 or -20 hoist adapter is used on all 757 airplanes. B27075 is used in conjunction with a customer-furnished jack to remove or install the flap tracks. Refer to AMM 27-51-03 and AMM 27-51-15 for complete usage instructions. B27075-1 consists of a B27075-2 adapter assembly contained in a storage box. B27075-20 consists of a B27075-21 adapter assembly contained in a storage box.

WEIGHT: 22 lbs (10 kg)

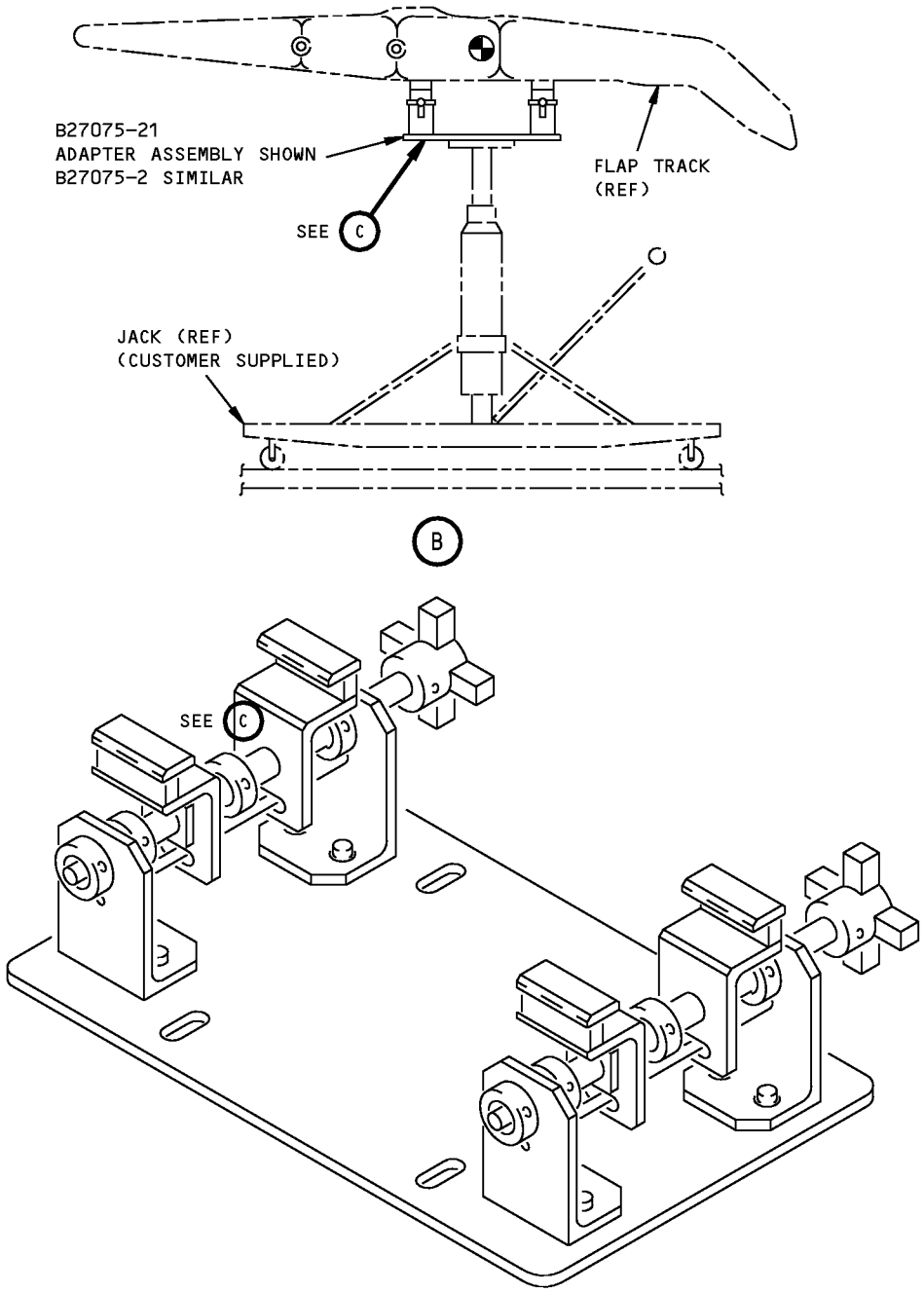
DIMENSIONS: 7 x 10 x 16 inches (178 x 254 x 406 mm)

NOTE: B27075-20 replaces B27075-1 for future procurement.





Flap Track Installation/Removal Hoist Adapter
Figure 1 (Sheet 1 of 2)



Flap Track Installation/Removal Hoist Adapter
Figure 1 (Sheet 2 of 2)

PART NUMBER: C27030-2, -33

NAME: TEST EQUIPMENT - FLAP SCREW BACKLASH

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: C27030-2 or -33 test equipment is used on all 757 airplanes. C27030 test equipment is used in conjunction with B27016 inboard trailing edge flap locks, B27014 outboard trailing edge flap locks and the B27008 trailing edge power drive unit lock to measure backlash in the flap ball screw nuts. Refer to AMM 27-51-11 and AMM 27-51-21 for complete usage instructions. The C27030-34 backlash tool assembly is contained in C27030-33. C27030-34 is an optional tool for flap positions 4 and 5. C27030-2 and -33 consist of:

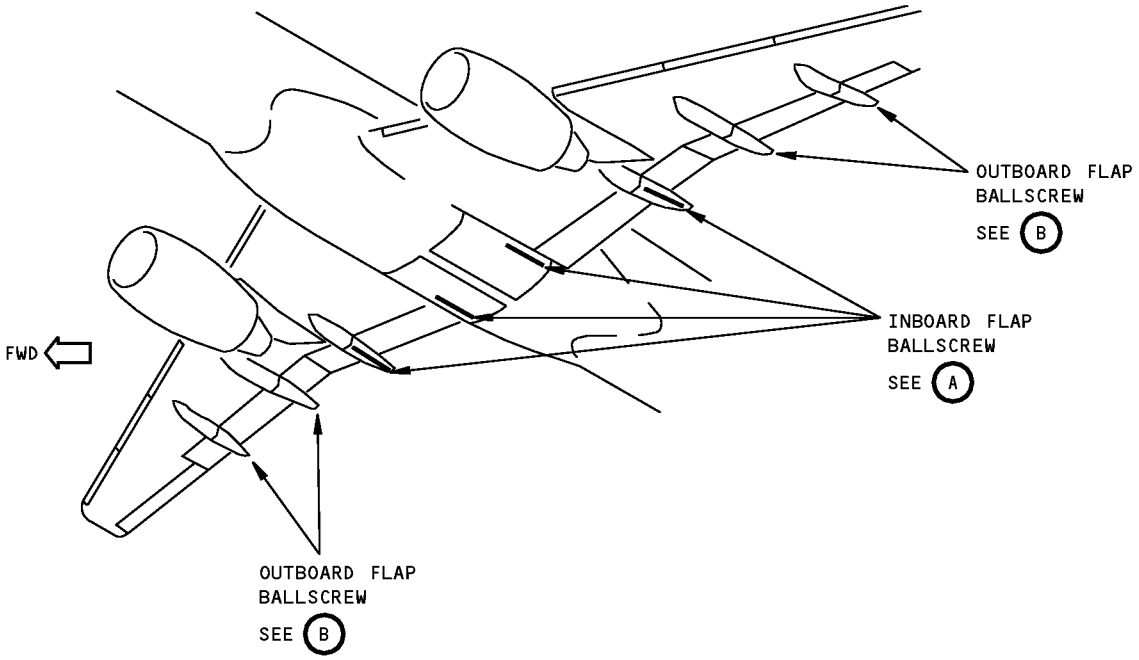
C27030-2		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	MEASURE ASSEMBLY	C27030-3
1	STORAGE BOX	

C27030-33		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	MEASURE ASSEMBLY	C27030-3
1	BACKLASH TOOL ASSEMBLY	C27030-34
1	STORAGE BOX	

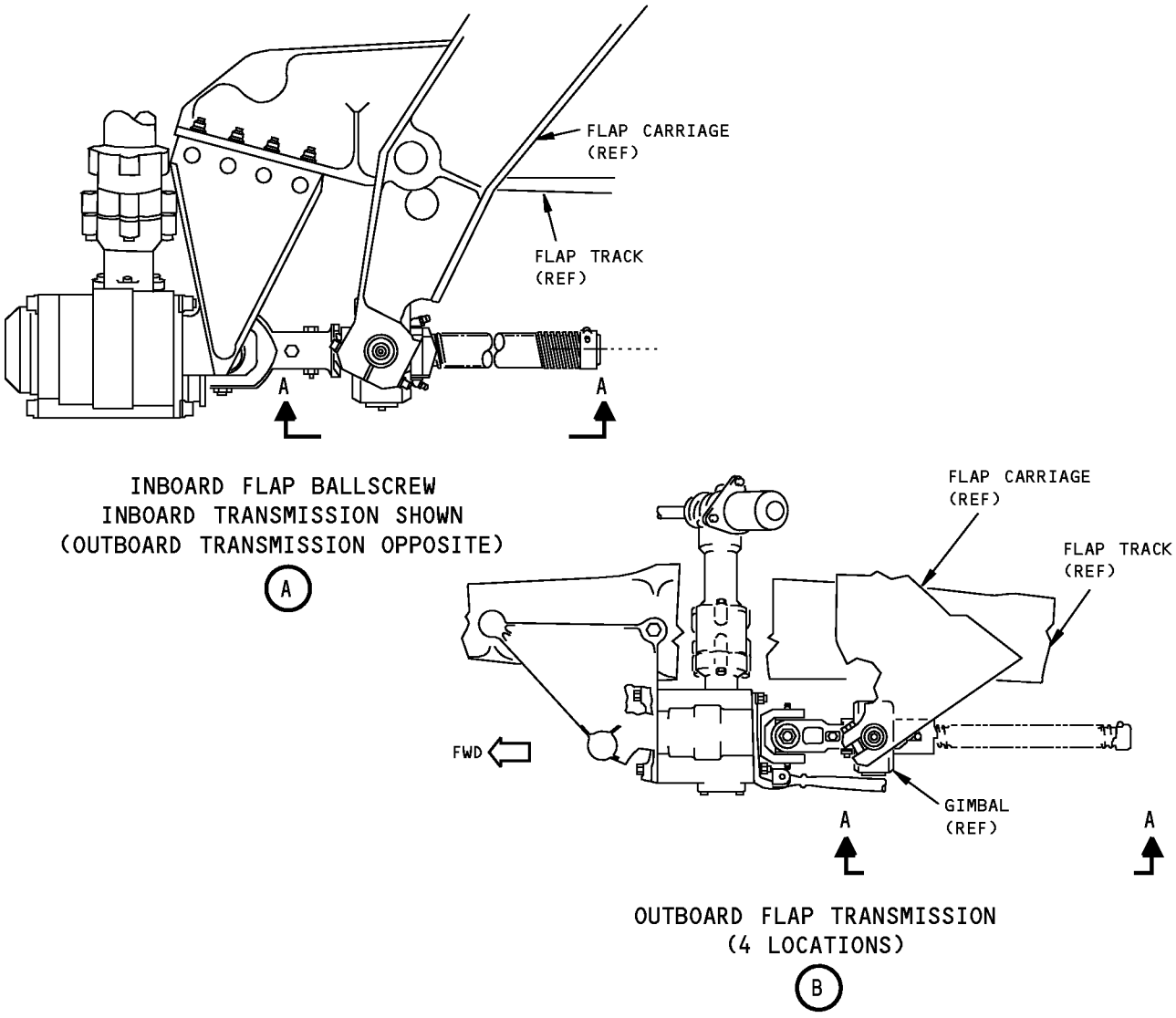
WEIGHT: C27030-2 - 2 lbs (0.9 kg)
C27030-33 - 10 lbs (4.5 kg)

DIMENSIONS: C27030-2 - 3 x 4 x 5 inches (76 x 102 x 127 mm)
C27030-33 - 3 x 6 x 22 inches (76 x 152 x 559 mm)

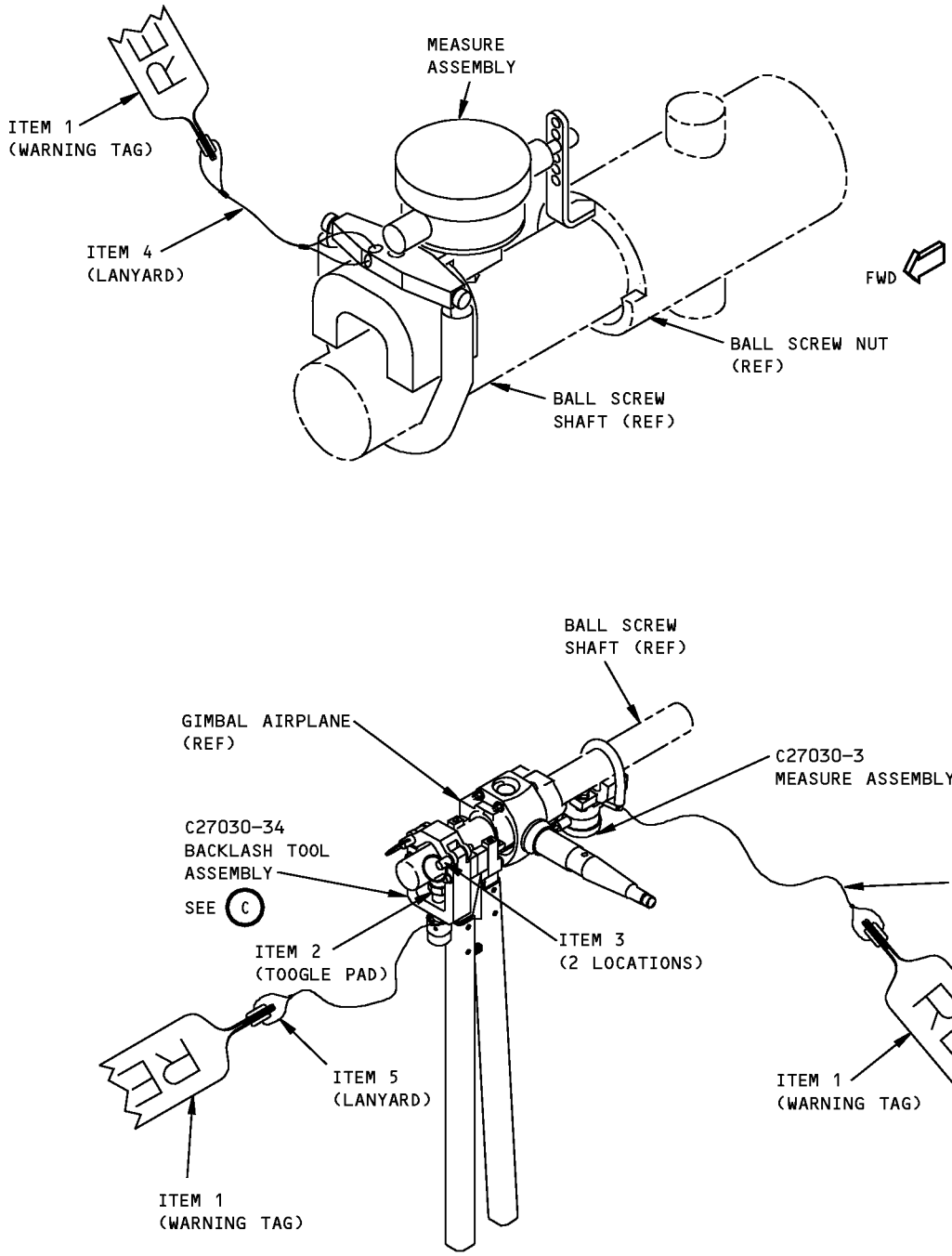
NOTE: C27030-33 supersedes C27030-1.



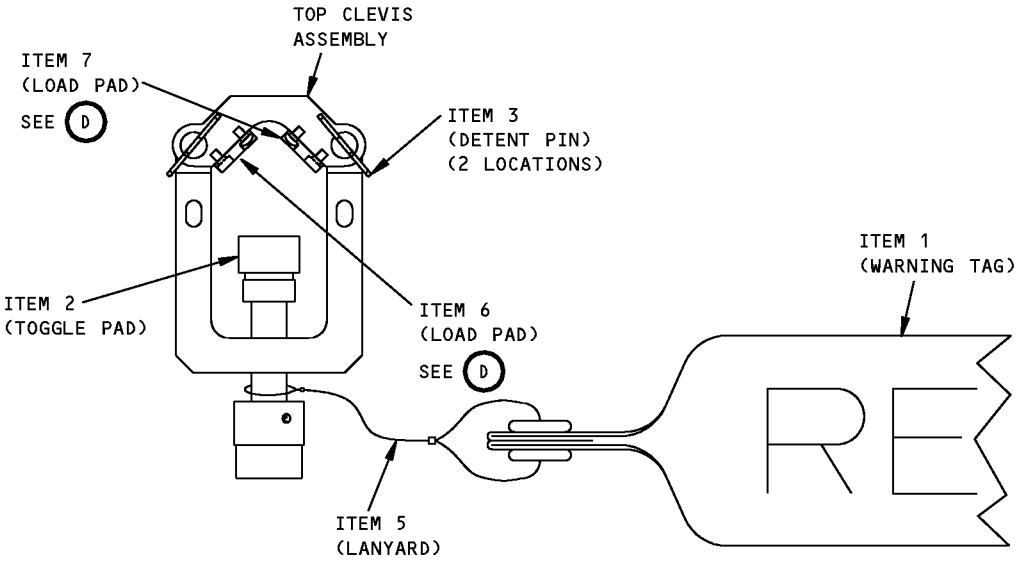
Flap Screw Backlash Test Equipment
Figure 1 (Sheet 1 of 4)



Flap Screw Backlash Test Equipment
Figure 1 (Sheet 2 of 4)

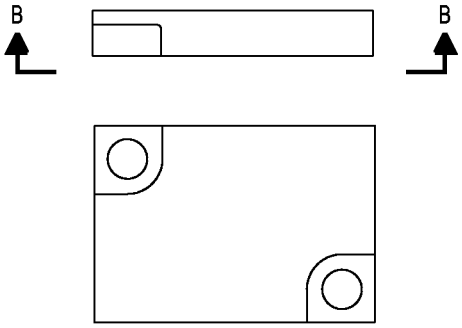


Flap Screw Backlash Test Equipment
Figure 1 (Sheet 3 of 4)



C27030-34
BACKLASH TOOL ASSEMBLY

C



B-B
ITEM 6,7
C27030-43 LOAD PAD SHOWN
C27030-44 OPPOSITE

D

Flap Screw Backlash Test Equipment
Figure 1 (Sheet 4 of 4)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	NAS1756-24	WARNING TAG	
2	ADB-54022	TOGGLE PAD	V02064
3	CL-4-DEP-1.00	DETENT PIN	V99862
4	CL-22-KA-12.0LR	LANYARD	V99862
5	CL-42-KA-8.0LR	LANYARD	V99862
6	C27030-43	LOAD PAD	
7	C27030-44	LOAD PAD (OPPOSITE)	

PART NUMBER: C27067-81, -83

NAME: TEST EQUIPMENT - TORQUE LIMITER, TRANSMISSION, TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: C27067-81 or -83 test equipment is applicable to all 757 airplanes from line number 797 and on. C27067 is also applicable to 757 airplanes if service bulletin 757-27A0127 has been incorporated. C27067-81 test equipment contains components for testing both 737-600 through -900 airplanes and 757 airplanes. C27067-83 contains components for testing only 757 airplanes.

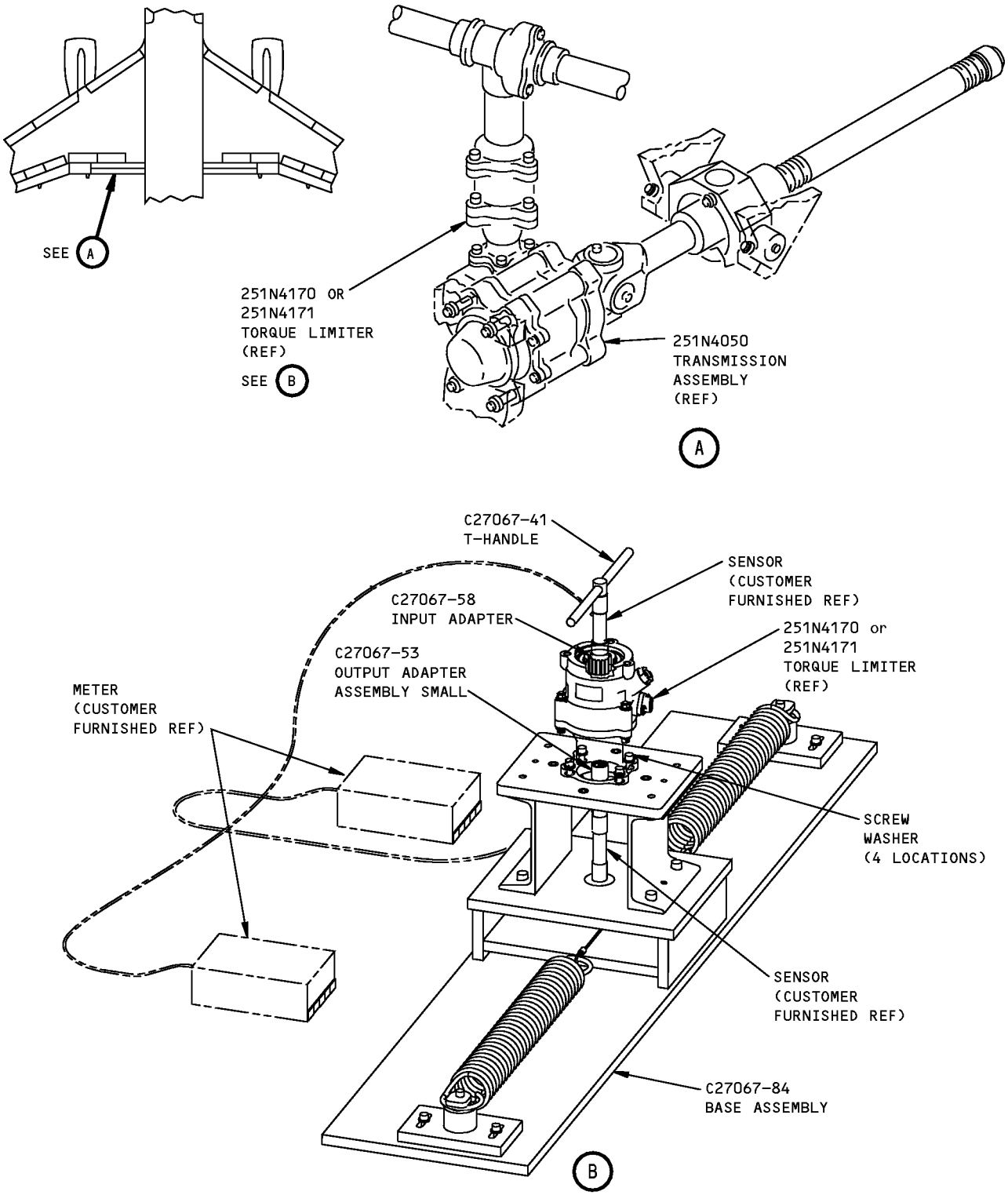
C27067 equipment is used to measure the input versus output torque on trailing edge flap torque brake assemblies (251N4170 and 251N4171). The C27067 test equipment is used with a customer-furnished strain meter (DP25-S is preferred) and a sensor (T0103-600 is preferred). Both are available from Omega Engineering. Refer to CMM 27-51-13 for complete usage instructions. The C27067-83 test equipment consists of:

C27067-83, 757 TEST EQUIPMENT		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	BASE ASSEMBLY	C27067-84
1	INPUT ADAPTER	C27067-58
1	SMALL OUTPUT ADAPTER ASSEMBLY	C27067-53
1	T-HANDLE	C27067-41
4	WASHER	NAS1149F0463P
4	SOCKET HEAD SCREW	NAS1352N4-14B
1	STORAGE BOX	

WEIGHT: 50 lbs (23 kg)

DIMENSIONS: 12 x 12 x 50 inches (305 x 305 x 1270 mm)

NOTE: C27067-81 supersedes C27067-62.
C27067-83 supersedes C27067-64.



Trailing Edge Flap Transmission Torque Limiter Test Equipment
Figure 1

PART NUMBER: B27078-1

NAME: SLING EQUIPMENT - TRAILING EDGE FLAPS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

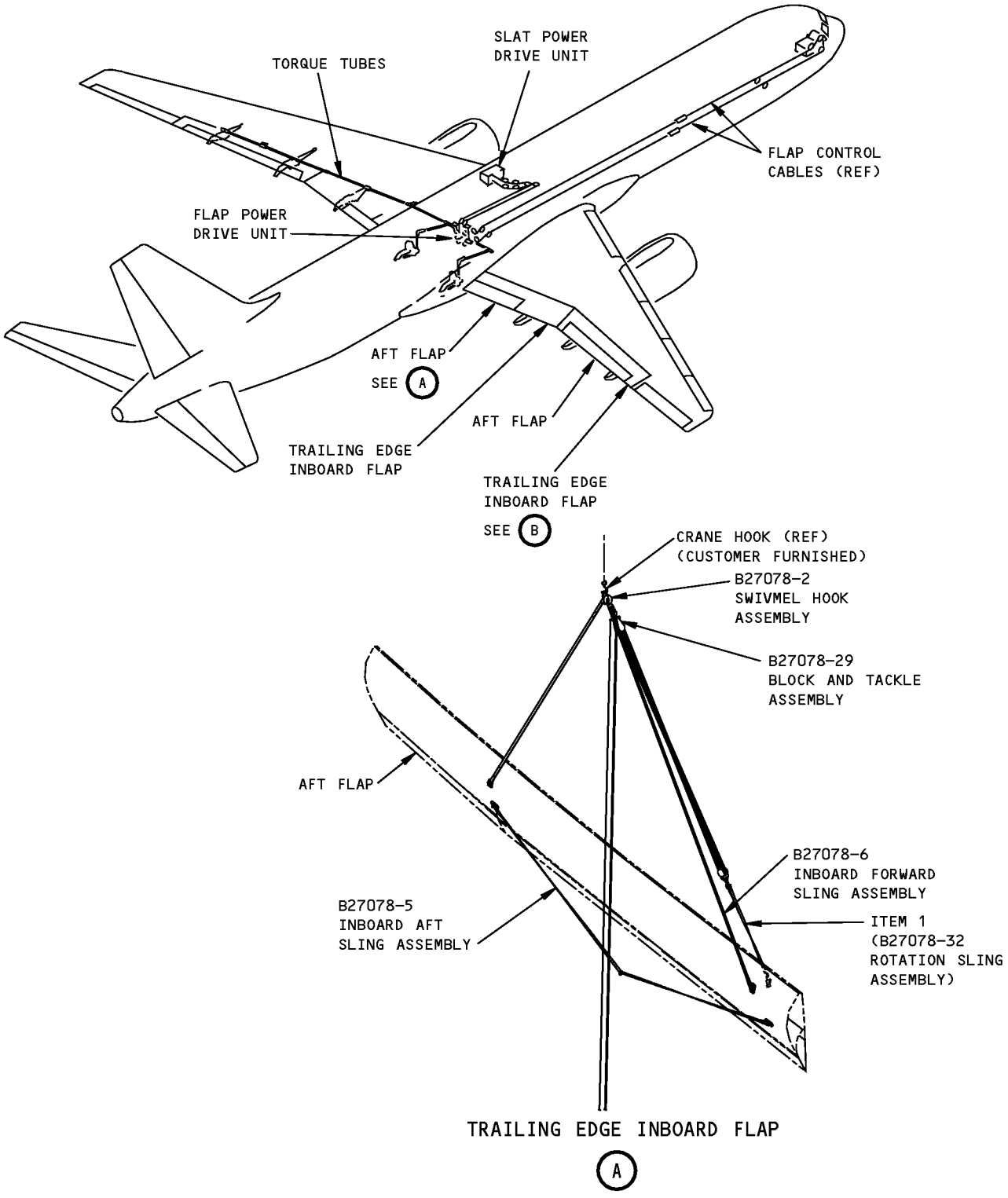
USAGE & DESCRIPTION: The B27078-1 sling equipment is used on all 757 airplanes. B27078 is used for removing and installing the inboard and outboard trailing edge flaps. The inboard and outboard trailing edge flaps are removed with the aft flaps installed. Refer to AMM 27-51-02 and AMM 27-51-14 for complete usage instructions. B27078-1 consists of:

B27078-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	SWIVEL HOOK ASSEMBLY	B27078-2
1	OUTBOARD AFT SLING ASSEMBLY	B27078-3
1	OUTBOARD FORWARD SLING ASSEMBLY	B27078-4
1	INBOARD AFT SLING ASSEMBLY	B27078-5
1	INBOARD FORWARD SLING ASSEMBLY	B27078-6
1	BLOCK AND TACKLE ASSEMBLY	B27078-29
1	ROTATION SLING ASSEMBLY	B27078-32
2	LOCK PIN ASSEMBLY	B27078-35
8	BOLT	NAS6603-19
15	SCREW	NAS1351-3-24
1	STORAGE BOX	

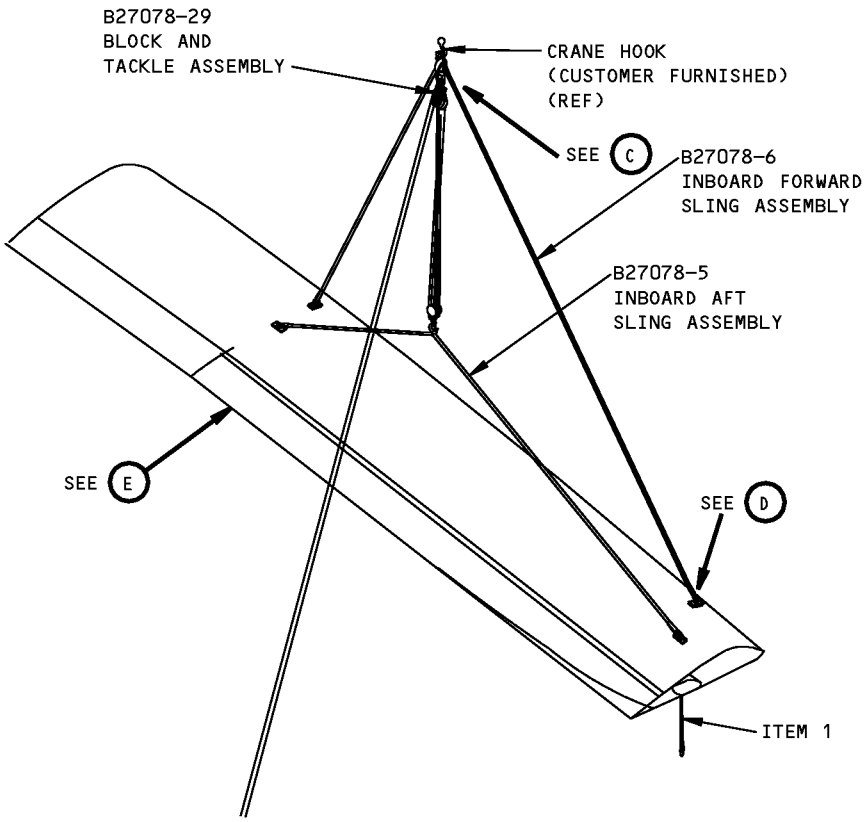
WEIGHT: 25 lbs (11 kg)

DIMENSIONS: 8 x 12 x 12 inches (203 x 305 x 305 mm)

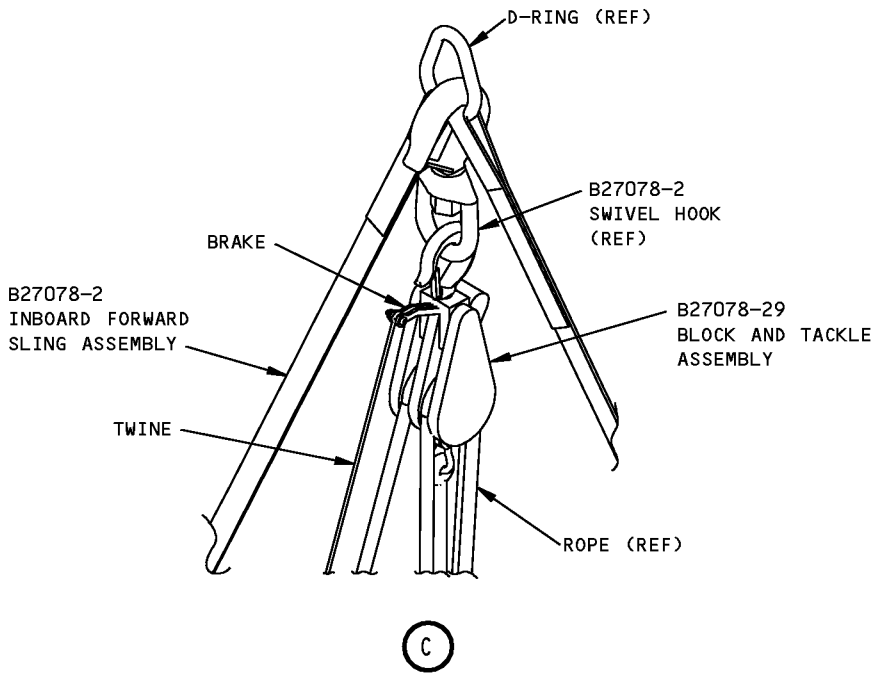
NOTE: B27078 replaces B27026 for future procurement.

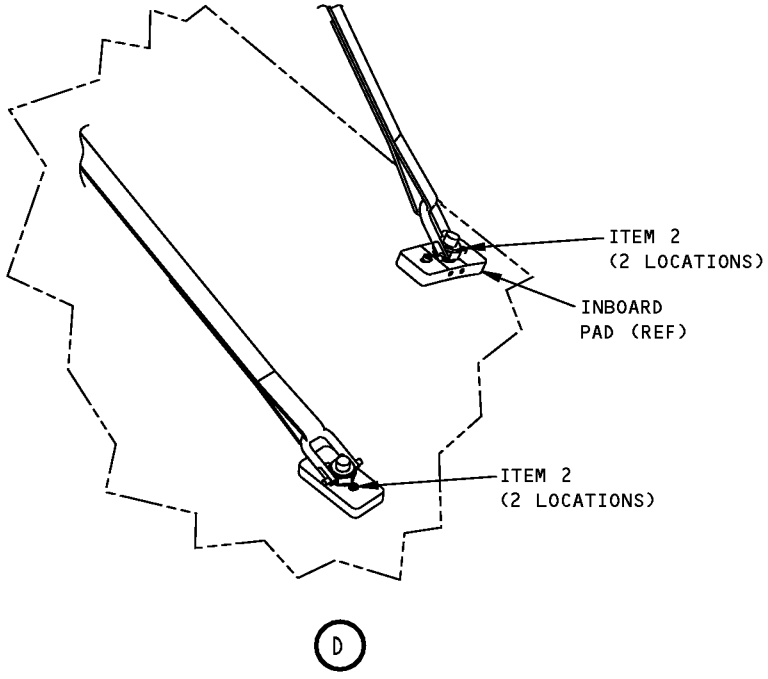


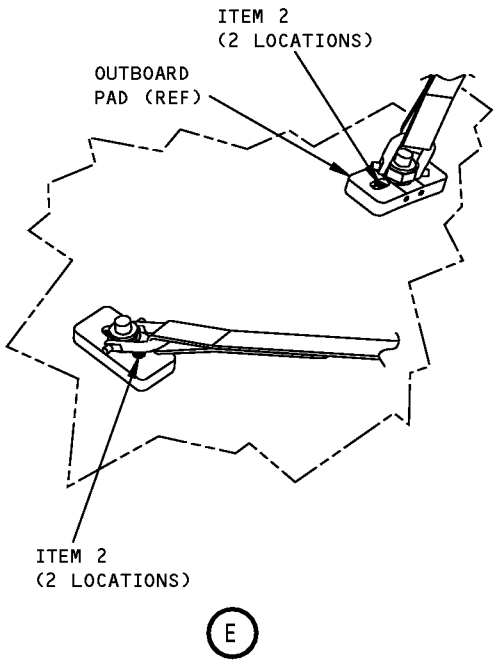
Trailing Edge Flaps Sling Equipment
Figure 1 (Sheet 1 of 5)



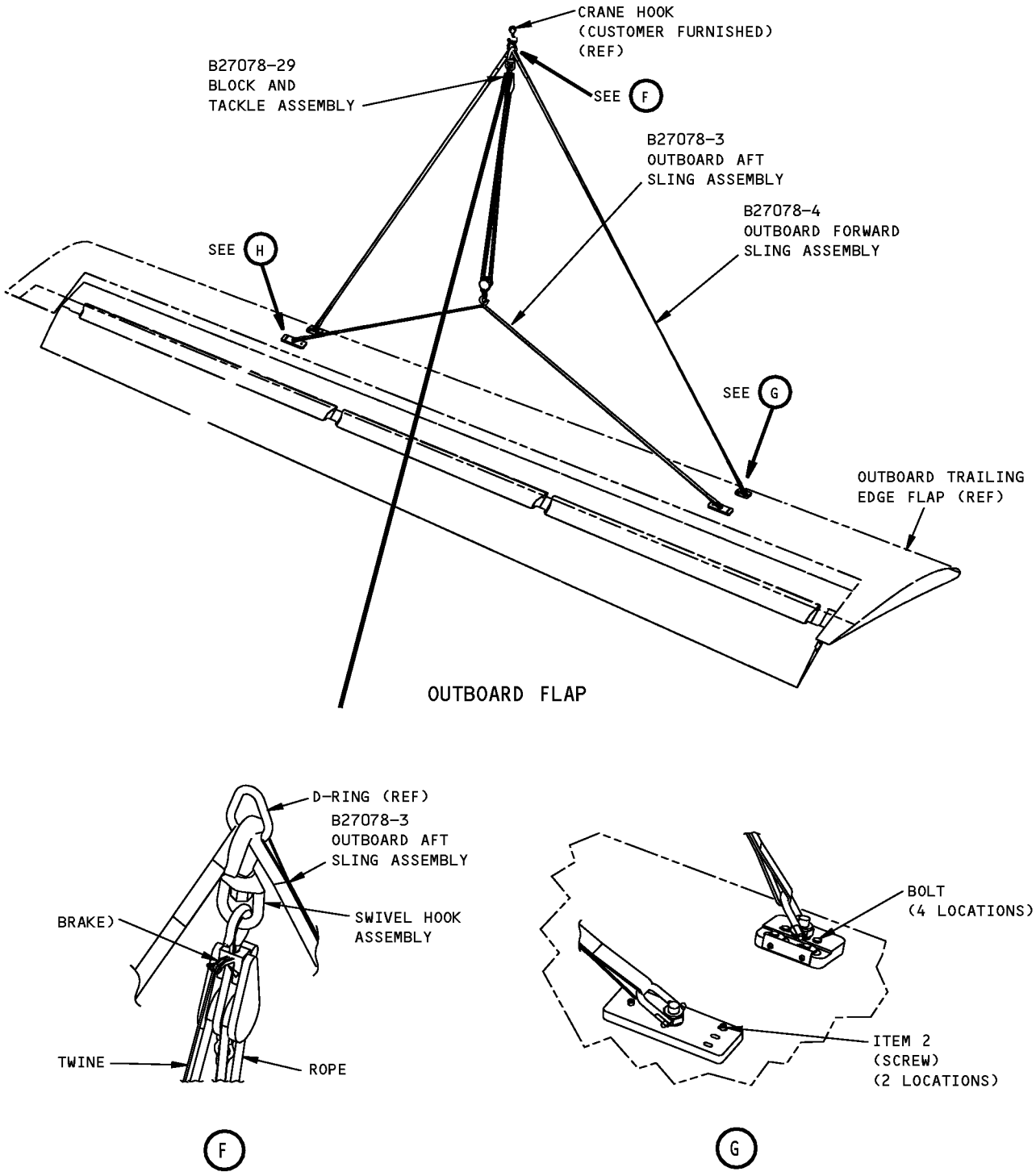
Trailing Edge Flaps Sling Equipment
Figure 1 (Sheet 2 of 5)



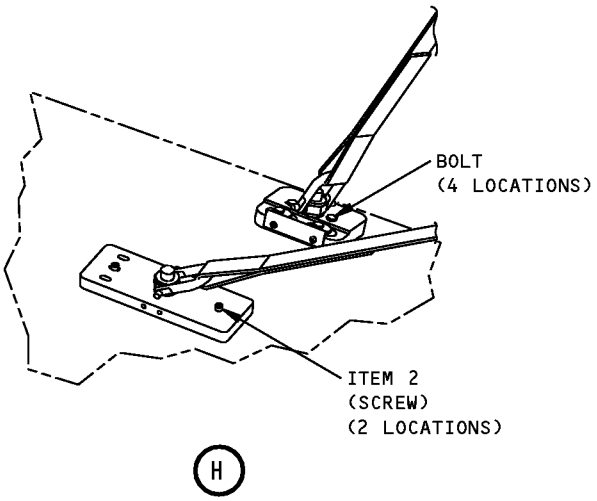




Trailing Edge Flaps Sling Equipment
Figure 1 (Sheet 3 of 5)



Trailing Edge Flaps Sling Equipment
Figure 1 (Sheet 4 of 5)



Trailing Edge Flaps Sling Equipment
Figure 1 (Sheet 5 of 5)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	B27078-32	ROTATION SLING ASSEMBLY	
2	NAS1351-3-24	SCREW	

PART NUMBER: C27072-1, -3

NAME: TEST EQUIPMENT - TRAILING EDGE FLAP TRANSMISSION, AFT U-JOINT AND BALLSCREW

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The C27072-1 or -3 test equipment is used during component maintenance on all 757 airplanes. The C27072-1 test equipment contains components required for testing on both 737 and 757 airplanes. The C27072-3 test equipment only contains components required for testing on the 757 airplane.

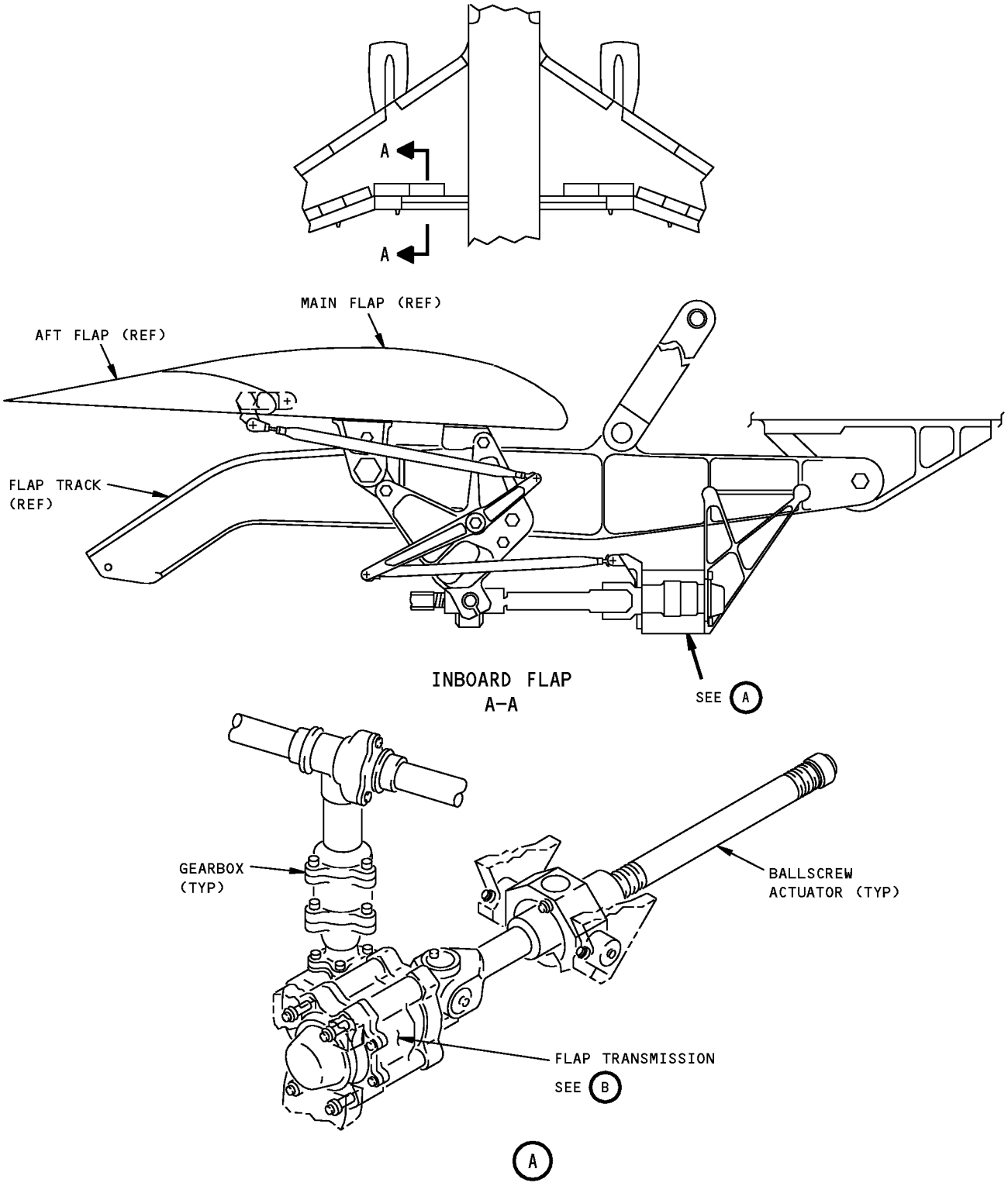
C27072 is used to hold the trailing edge flap transmissions aft U-joint and ballscrew assemblies during functional testing. Refer to CMM 27-51-12 and CMM 27-51-13 for complete usage instructions. C27072-3 test equipment consists of a C27072-4 test stand assembly in storage box one. C27072-3 test equipment also consists of storage box two containing:

C27072-3		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	OUTPUT LOCK ASSEMBLY	C27072-5
1	TORQUE METER ASSEMBLY	C27072-6
1	ADAPTER PLATE	C27072-8
1	SMALL ADAPTER ASSEMBLY	C27072-9
1	SMALL POINTER	C27072-11
2	LONG BOSS	C27072-14
1	RETAINING CAP	C27072-15
4	LARGE SCREW	C27072-16
4	LONG BOLT	C27072-19
8	SHORT BOLT	C27072-20
12	NUT	C27072-21
20	WASHER	C27072-22
1	TORQUE SENSOR	1253–105*[1]
3	SCREW	C27072-76
3	WASHER	C27072-77
1	STORAGE BOX	

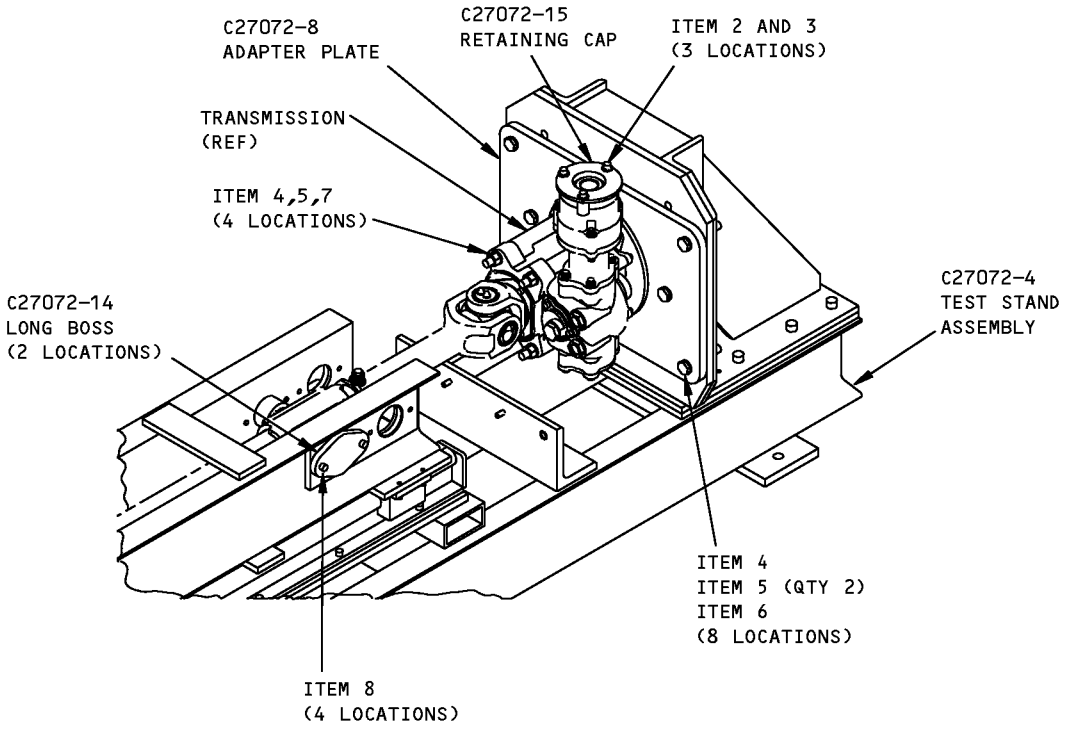
*[1] 1254-305-100 IS SUBSTITUTE FOR OBSOLETE 1253-105

WEIGHT: 525 lbs (238 kg)

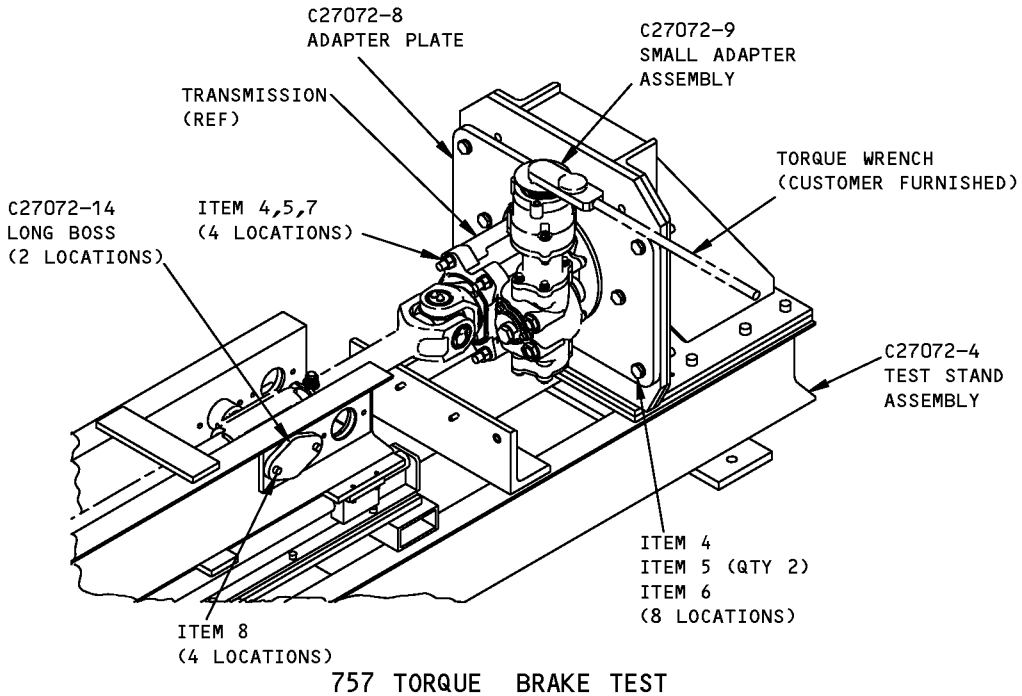
DIMENSIONS: 15 x 20 x 87 inches (381 x 508 x 2210 mm)



Aft U-Joint and Ballscrew Trailing Edge Flap Transmission Test Equipment
Figure 1 (Sheet 1 of 3)

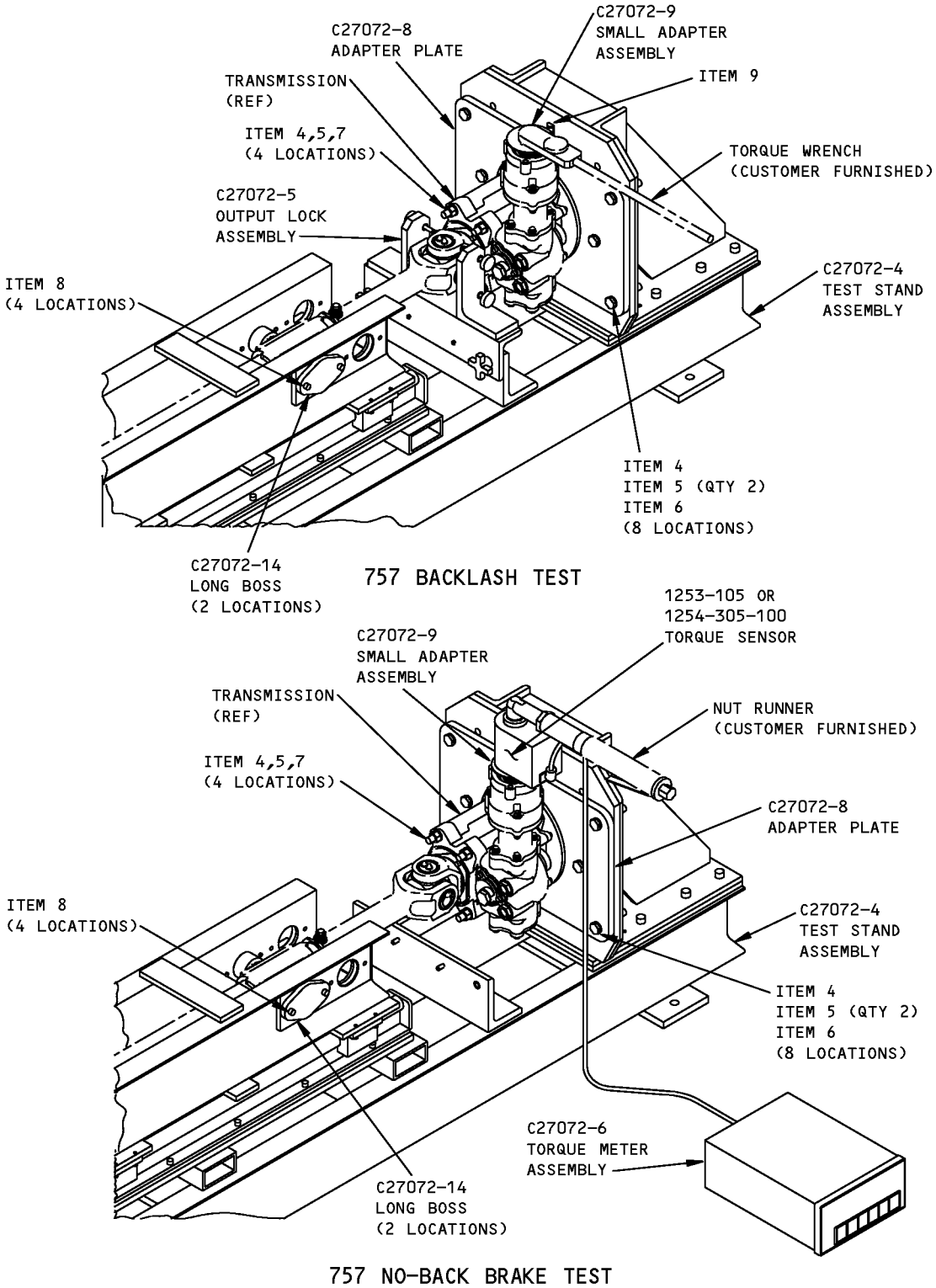


757 PRESSURE TEST



757 TORQUE BRAKE TEST

Aft U-Joint and Ballscrew Trailing Edge Flap Transmission Test Equipment
Figure 1 (Sheet 2 of 3)



Aft U-Joint and Ballscrew Trailing Edge Flap Transmission Test Equipment
Figure 1 (Sheet 3 of 3)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	63-01	LYNCH PIN	V96652
2	C27072-77	WASHER	
3	C27072-76	SCREW	
4	C27072-21	NUT	
5	C27072-22	WASHER	
6	C27072-20	SHORT BOLT	
7	C27072-19	LONG BOLT	
8	C27072-16	LARGE SCREW	
9	C27072-11	SMALL POINTER	

PART NUMBER: B27007-15

NAME: LOCK - SET, SPOILER ACTUATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

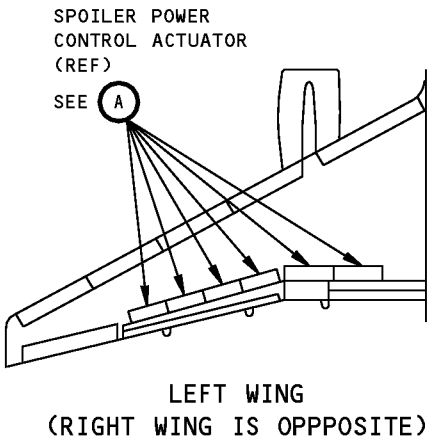
USAGE & DESCRIPTION: The B27007-15 lock is used on all 757 airplanes. B27007 is used to lock spoiler power control actuators (PCA) in the extended position for maintenance. B27007 prevents accidental spoiler operation. B27007 fits over the actuator rod and is secured by a ball lockpin. Each B27007-15 lock set contains one B27007-8 and five B27007-11 lock assemblies that secure the spoilers on either the left or right wings. The B27007-8 lock assembly is shorter in length and installed on the inboard spoiler actuator number 6 (left wing) and on number 7 (right wing). The B27007-11 lock assemblies are installed on spoiler actuators numbers 1 thru 5 and on numbers 8 thru 12. Refer to the current B27007 drawing, AMM 27-61-00 and AMM 27-61-02 for complete usage instructions. B27007-15 consists of:

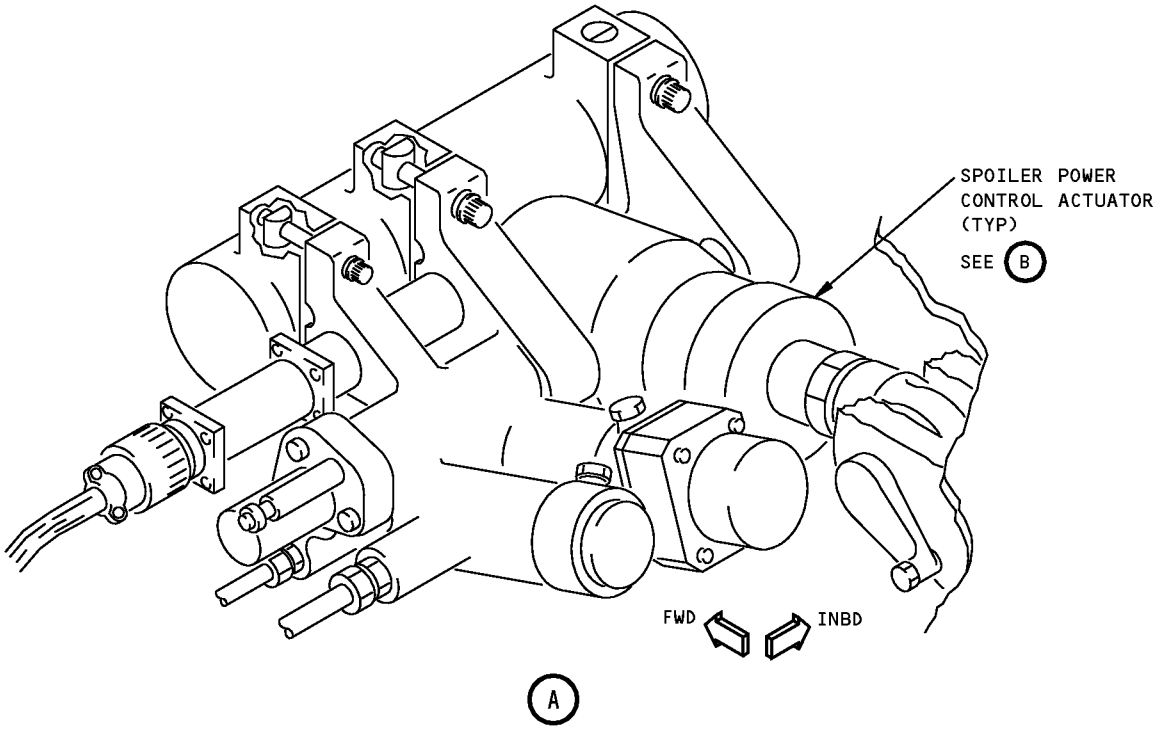
B27007-15		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	LOCK ASSEMBLY	B27007-8
5	LOCK ASSEMBLY	B27007-11
1	STORAGE BOX	

WEIGHT: 14 lbs (6.4 kg)

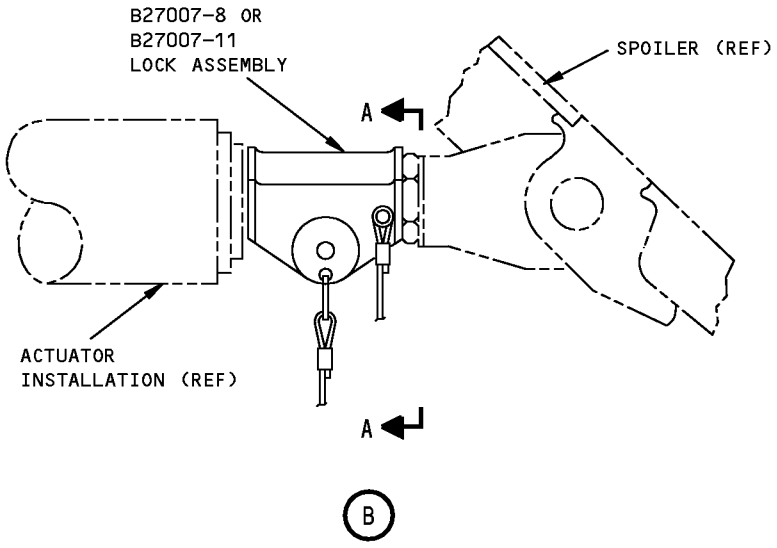
DIMENSIONS: 8 x 11 x 12 inches (203 x 279 x 305 mm)

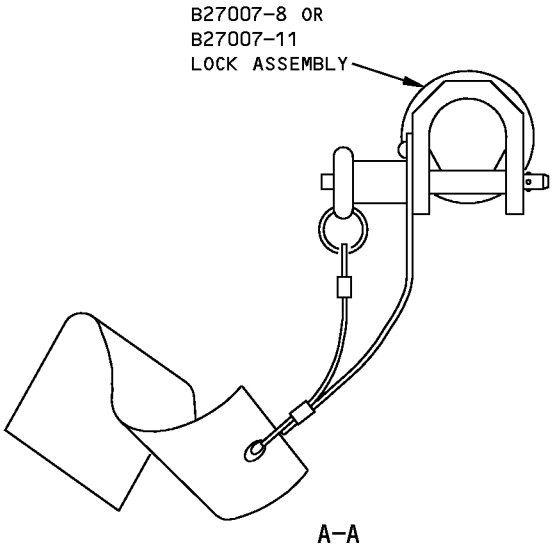
NOTE: B27007-15 supersedes B27007-1 and -7.





Spoiler Actuator Lock Set
Figure 1 (Sheet 1 of 2)





Spoiler Actuator Lock Set
Figure 1 (Sheet 2 of 2)

PART NUMBER: A27096-1

NAME: BREAKOUT BOX - SPOILER PANEL POSITION MONITOR AND RELAY CIRCUIT PRINTED CIRCUIT ASSEMBLY (PCA)

AIRPLANE MAINTENANCE: NO

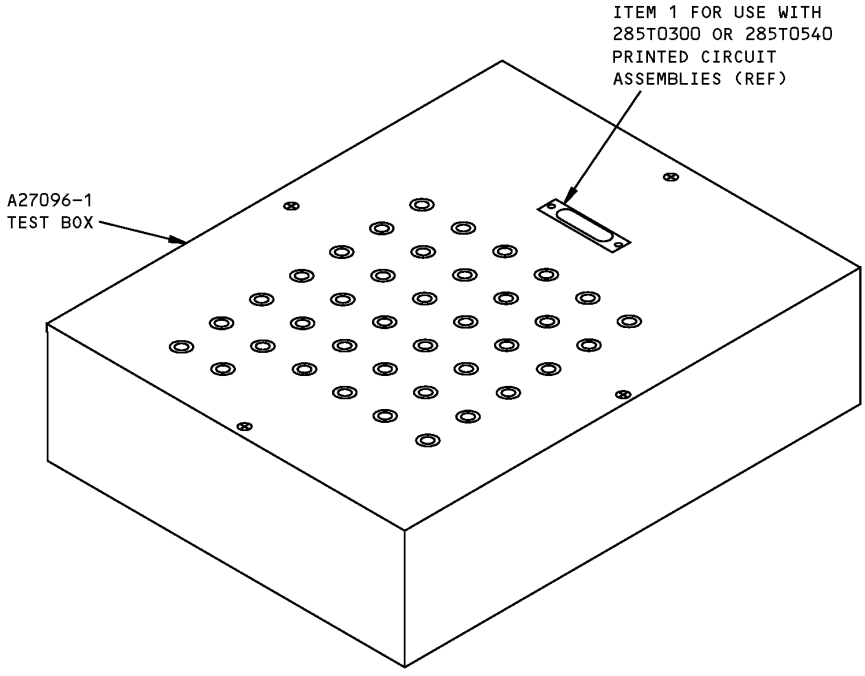
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27096 drawing has been transferred to BAE Systems and will no longer be revised by Boeing. The A27096 inclusion in the 757 ITEM is for information and historical purposes only.

The A27096-1 breakout box is used on all 757 airplanes. A27096 is used to test the spoiler position monitor PCA. Refer to CMM 27-61-56 and CMM 27-61-57 for complete usage instructions. A27096-1 consists of banana jacks, a connector and electrical circuitry mounted on a panel and chassis assembly.

WEIGHT: 3 lbs (1.4 kg)

DIMENSIONS: 2 x 7 x 9 inches (51 x 178 x 229 mm)



Breakout Box - Spoiler Panel Position Monitor And Relay PCA
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MDM-37SSL39-F	CONNECTOR	V08051

PART NUMBER: B27006-65

NAME: HOIST EQUIPMENT - POWER DRIVE UNIT (PDU), LEADING EDGE SLATS, REMOVAL/INSTALLATION

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

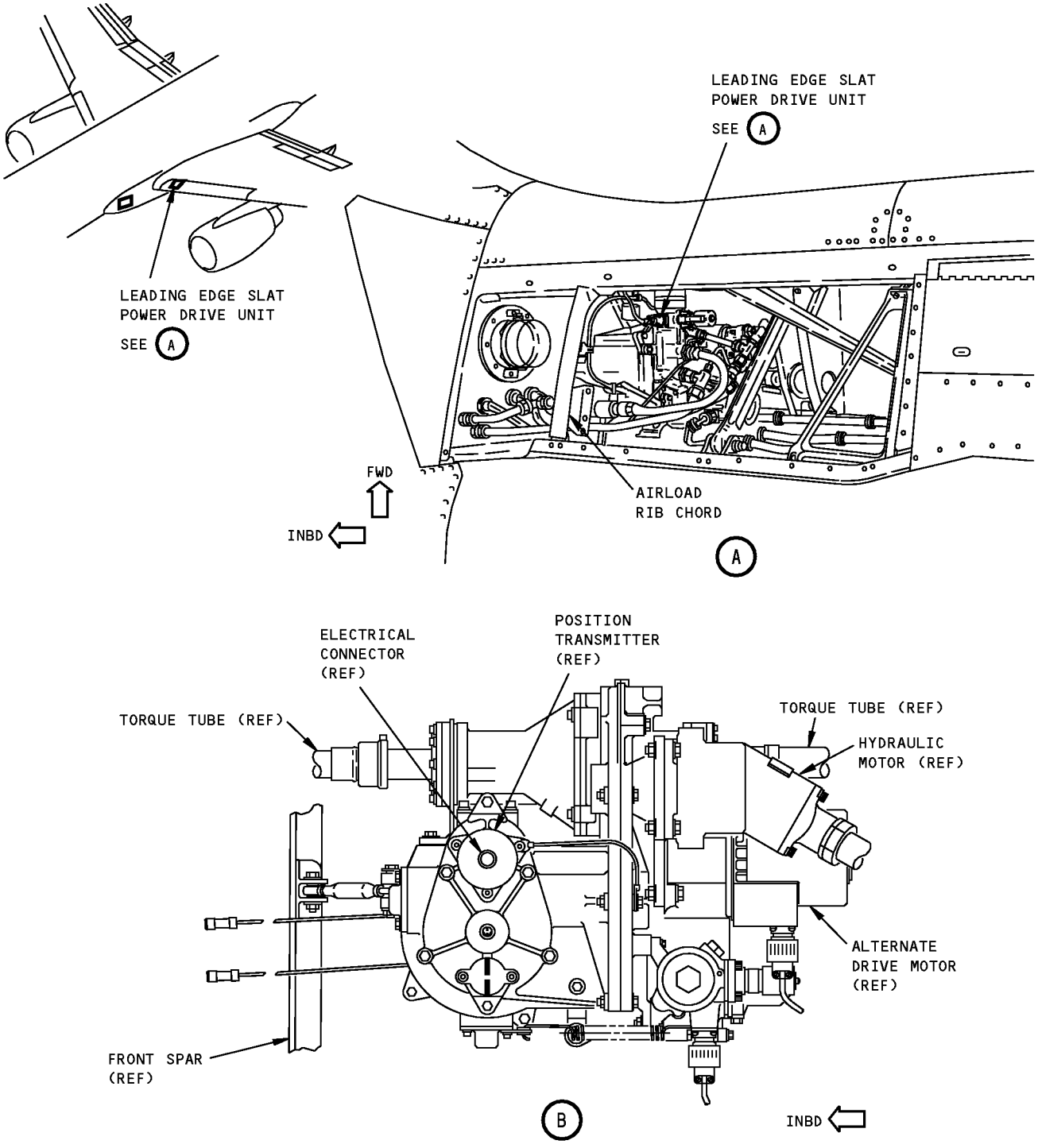
USAGE & DESCRIPTION: The B27006-65 hoist equipment is used on all 757 airplanes. B27006 is a hand-held winch and cable assembly that threads through the wing internal structure to remove or install the leading edge slat power drive unit. Refer to AMM 27-81-07 for complete usage instructions. B27006-65 consists of:

B27006-65		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	WINCH/CABLE ASSEMBLY	B27006-66
1	SHAFT ASSEMBLY	B27006-67
1	STORAGE BOX	

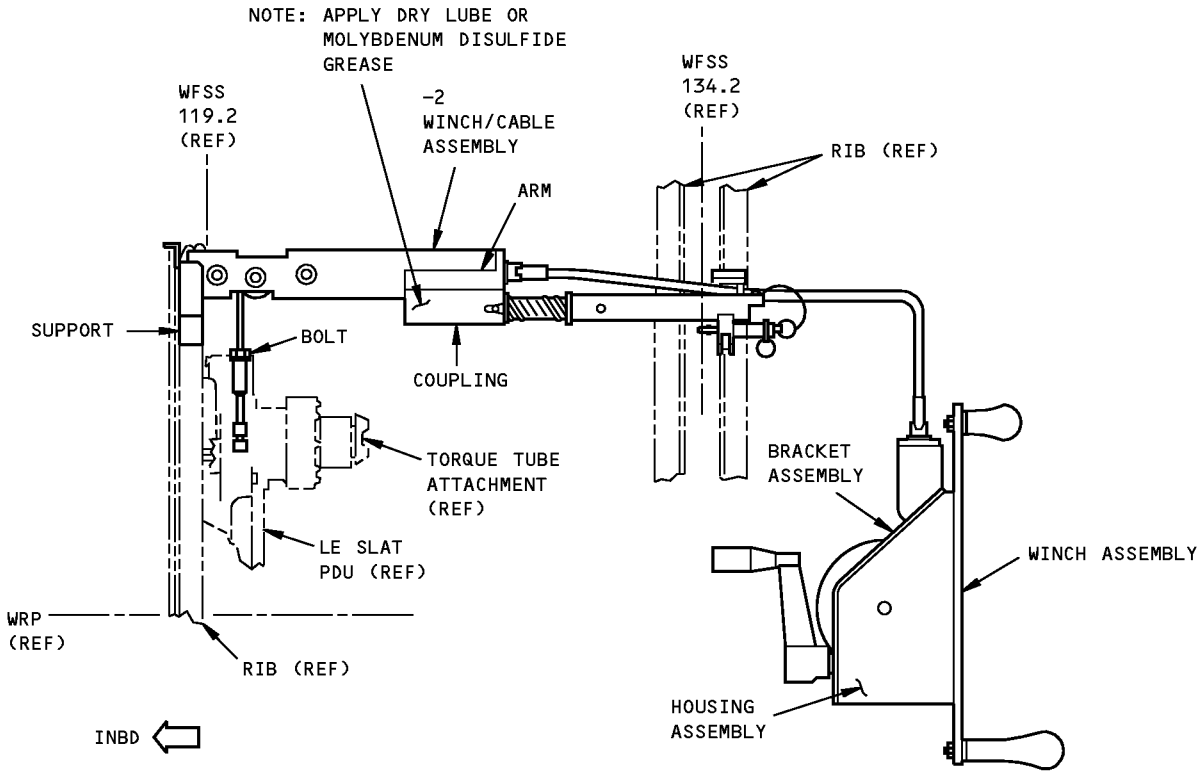
WEIGHT: 12 lbs. (5.4 kg)

DIMENSIONS: 12 x 12 x 30 inches (305 x 305 x 762 mm)

NOTE: B27006-65 supersedes B27006-56 and B27006-1.



Leading Edge Slats PDU, Removal/Installation Hoist Equipment
Figure 1 (Sheet 1 of 2)



Leading Edge Slats PDU, Removal/Installation Hoist Equipment
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27001-1, -33, -40, -51

NAME: RIGGING EQUIPMENT - LEADING EDGE SLAT, INBOARD/OUTBOARD

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27001-1, -33, -40 and -51 rigging equipment are used on all 757 airplanes. B27001 rigging equipment is used for installation and rigging of the wing leading edge slats. Refer to the current B27001 drawing and AMM 27-81-00, AMM 27-81-01, AMM 27-81-02, AMM 27-81-10 and AMM 27-81-12 for complete usage information.

B27001-1 inboard rigging equipment (slats 5 and 6) is used on 757 airplane line numbers 1 through 471, which have not incorporated Service Bulletin 757-57-0035R2. B27001-1 consists of four B27001-8 spacer assemblies, two B27001-15 spacer assemblies and two B27001-16 spacer assemblies, all contained in a storage box.

B27001-33 inboard rigging equipment (slats 5 and 6) is used on 757 airplanes, line numbers 1 through 471, which have not incorporated Service Bulletin 757-57-0035R1, as well as line numbers 472 through 547 that are not in the R1 bulletin effectivity. B27001-33 consists of four B27001-8 spacer assemblies, two B27001-34 spacer assemblies and two B27001-35 spacer assemblies, all contained in a storage box.

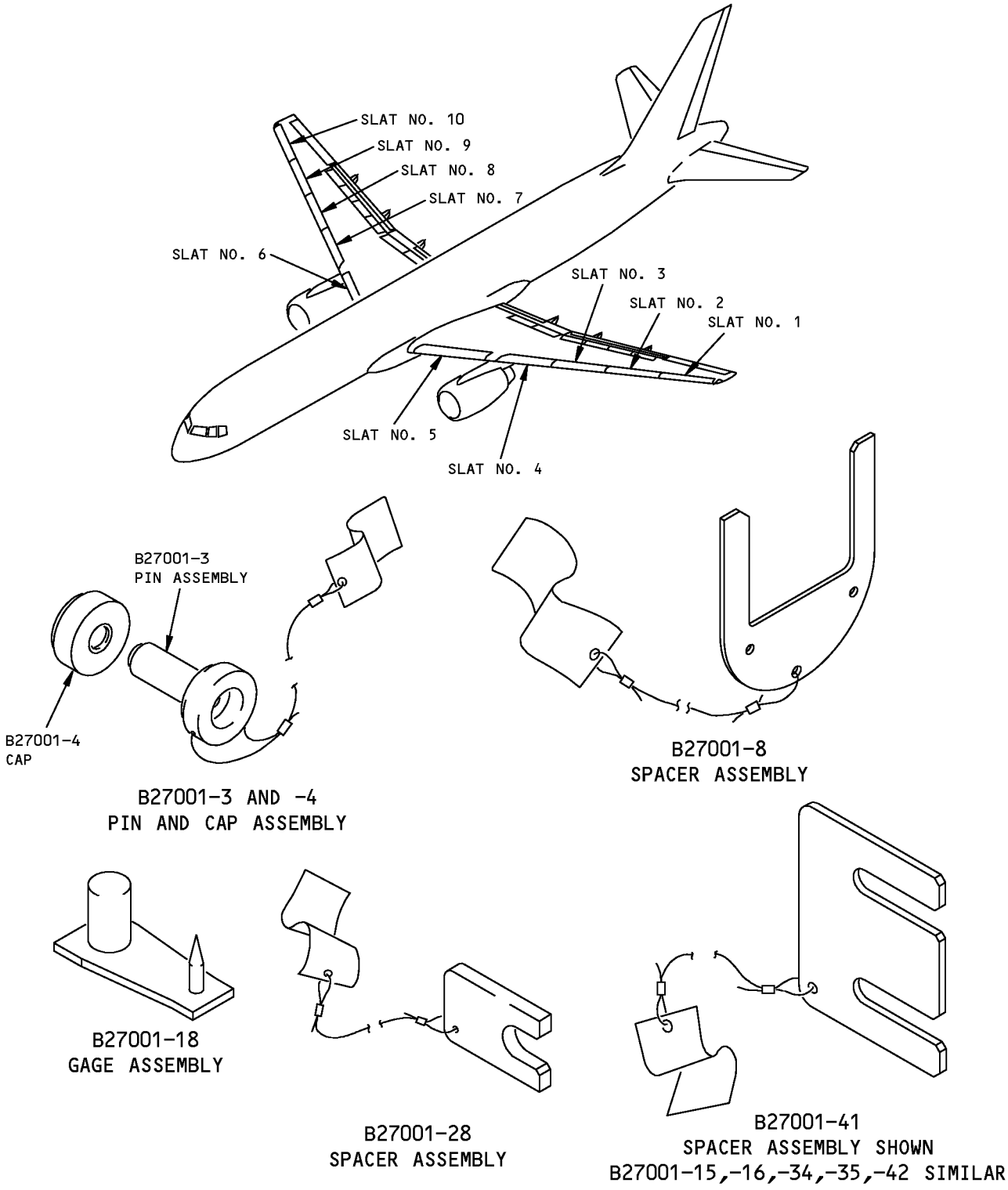
B27001-40 inboard rigging equipment (slats 5 and 6) is used on 757 airplane line numbers 1 through 547, which have incorporated Service Bulletin 757-57-0035R2, as well as line numbers 548 and on, that are not included in the 757-0035R2 Service Bulletin. B27001-40 consists of four B27001-8 spacer assemblies, two B27001-41 spacer assemblies and two B27001-42 spacer assemblies, all contained in a storage box.

B27001-51 outboard rigging equipment (slats 1 through 4 and 7 through 10) is used on all 757 airplanes. B27001-51 consists of sixteen B27001-3 pin assemblies, sixteen B27001-4 caps, a B27001-18 gage assembly, sixteen B27001-28 spacer assemblies, sixteen MS21044N3 nuts and sixteen MS24694-C71 screws, all contained in a storage box.

WEIGHT:
B27001-1 - 3 lbs (1.4 kg)
B27001-33 - 3 lbs (1.4 kg)
B27001-40 - 3 lbs (1.4 kg)
B27001-51 - 16 lbs (7.3 kg)

DIMENSIONS:
B27001-1 - 1 x 8 x 12 inches (25 x 203 x 305 mm)
B27001-33 - 1 x 8 x 12 inches (25 x 203 x 305 mm)
B27001-40 - 1 x 8 x 12 inches (25 x 203 x 305 mm)
B27001-33 - 2 x 12 x 16 inches (51 x 305 x 406 mm)

NOTE: B27001-51 supersedes B27001-49.



Inboard/Outboard Leading Edge Slat Rigging Equipment
Figure 1

PART NUMBER: B27019-10

NAME: SLING EQUIPMENT - LEADING EDGE SLAT

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

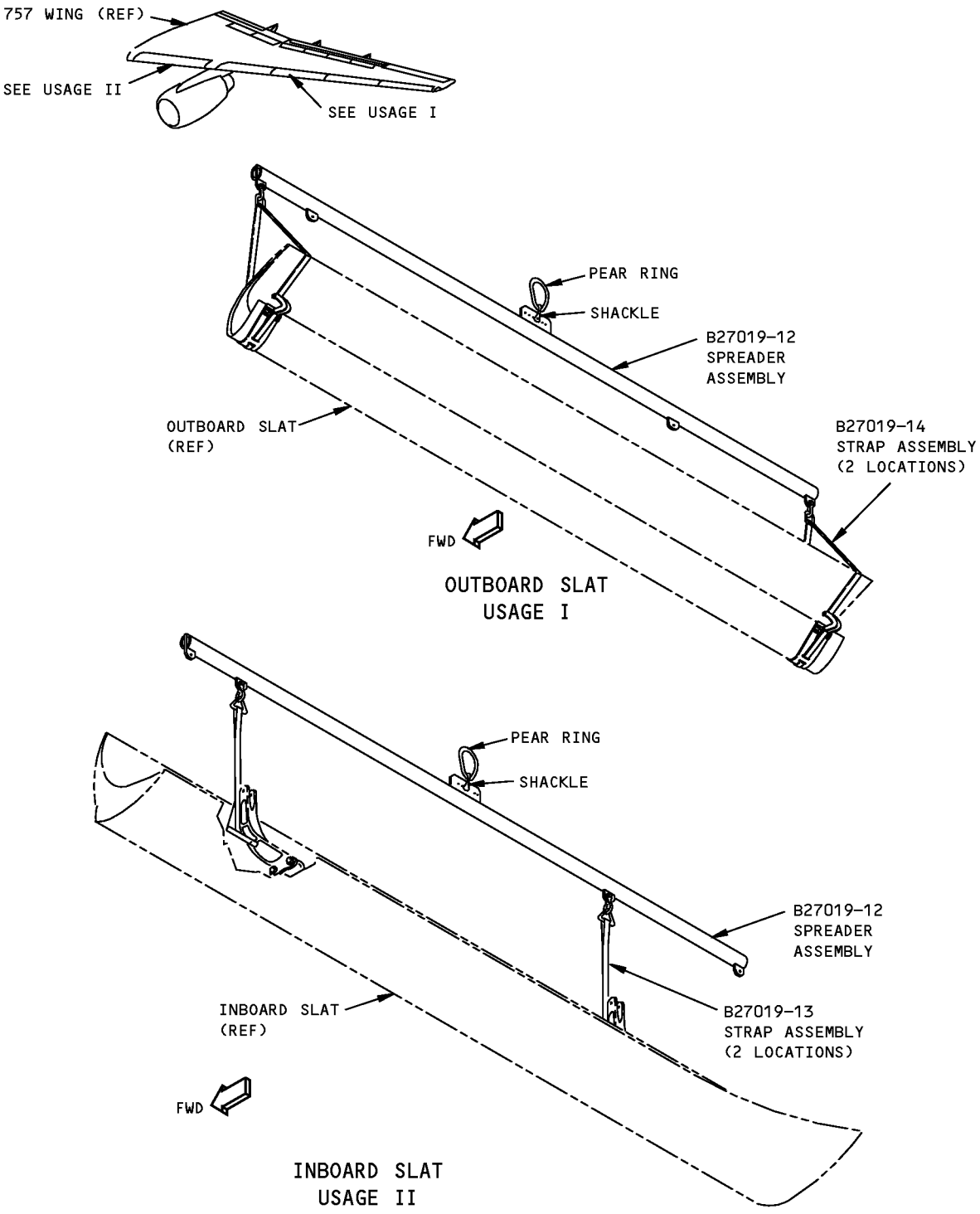
USAGE & DESCRIPTION: The B27019-10 sling equipment is used on all 757 airplanes. B27019 is used with customer-furnished overhead lifting equipment to hold, lift, and position the inboard and outboard leading edge slats during installation or removal. Refer to AMM 27-81-01 and AMM 27-81-02 for complete usage instructions. B27019 consists of:

B27019-10		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	SPREADER ASSEMBLY	B27019-12
2	STRAP ASSEMBLY	B27019-13
2	STRAP ASSEMBLY	B27019-14
1	STORAGE BOX	

WEIGHT: 75 lbs (34 kg)

DIMENSIONS: 6 x 6 x 126 inches (152 x 152 x 406 mm)

NOTE: B27019-10 replaces B27019-1 for future procurement.



Leading Edge Slat Sling Equipment
Figure 1

PART NUMBER: B27020-29, -31

NAME: LOCK SET - LEADING EDGE SLAT DRIVE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27020-29 lock set is used on all 757 airplanes. B27020-29 consists of one B27020-25 circuit breaker lock. B27020-25 circuit breaker lock is used to interrupt power to the trailing edge flap alternate drive motor. Refer to AMM 12-21-08, AMM 27-51-00, AMM 27-58-01, AMM 27-81-00, AMM 27-81-01, AMM 27-81-02, AMM 27-81-06, AMM 27-81-07, AMM 27-81-08, AMM 27-81-09, AMM 27-81-10, AMM 27-81-12, AMM 27-81-15, AMM 27-81-18, AMM 27-81-20, AMM 27-81-41, AMM 27-81-42 and AMM 27-88-01.

B27020-31 is applicable to 757 airplanes built from line number 1 through 642 that do not incorporate Service Bulletin 757-29A0048. The B27020-31 lock set consists of one B27020-25 circuit breaker lock, one B27020-32, and one B27065-12 circuit breaker lock assembly (see the B27065 drawing for fabrication instructions). The B27020-25 circuit breaker lock is used to interrupt electrical power to the slat power drive unit (PDU), The B27020-32 valve lock assembly is used to assure that the bypass valve is in the bypass position, interrupting hydraulic power to the slat PDU, preventing hydraulic operation of leading edge slats during maintenance. The B27065-12 circuit breaker lock assembly is used to interrupt electrical power to the bypass valve. Refer to AMM 12-21-08, AMM 27-81-00, AMM 27-81-01, AMM 27-81-02, AMM 27-81-07, AMM 27-81-08, AMM 27-81-09, AMM 27-81-10, AMM 27-81-12, AMM 27-81-15, AMM 27-81-18, AMM 27-81-20, AMM 27-81-41, AMM 27-81-42 and AMM 27-88-01.

The B27020-25 circuit breaker lock is used to guard circuit breakers C3014 on panel P6 or C323 on panel P6.

The B27065-12 circuit breaker lock assembly is used to guard circuit breaker C4212 on panel P11.

The B27020-32 valve lock assembly is used to lock the slat PDU bypass valve.

B27020-29 and -31 consist of:

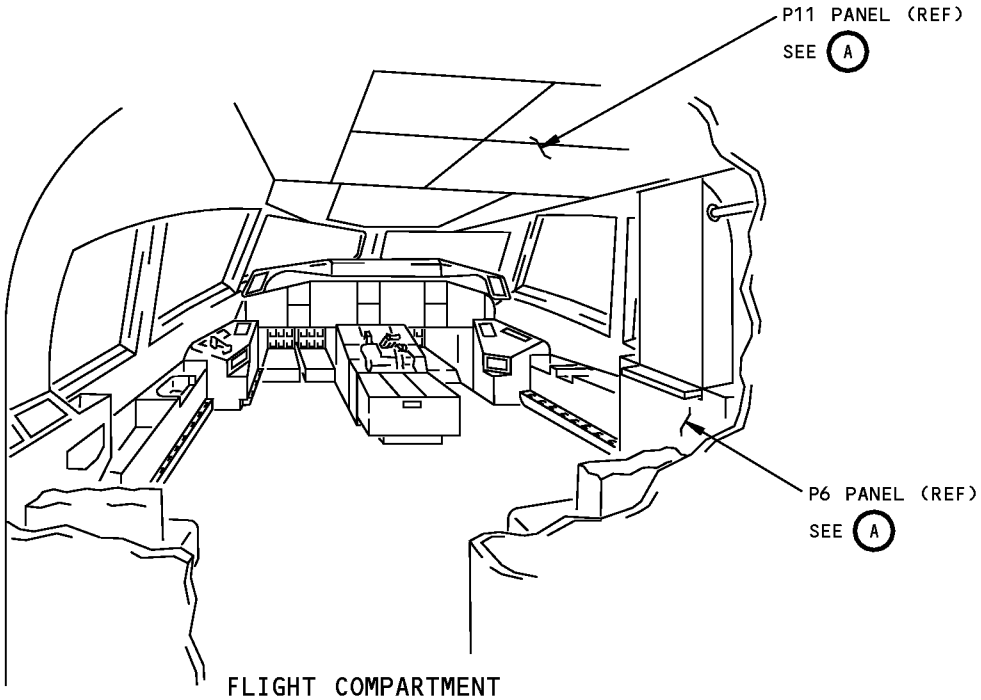
B27020-29 FLAP ALTERNATE DRIVE CIRCUIT BREAKER LOCK		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	CIRCUIT BREAKER LOCK ALTERNATE DRIVE ASSEMBLY	B27020-25
1	STORAGE BOX	

B27020-31 LEADING EDGE FLAP DRIVE LOCK SET		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	CIRCUIT BREAKER LOCK ALTERNATE DRIVE ASSEMBLY	B27020-25
1	VALVE LOCK ASSEMBLY	B27020-32
1	CIRCUIT BREAKER LOCK ASSEMBLY	B27065-12
1	STORAGE BOX	

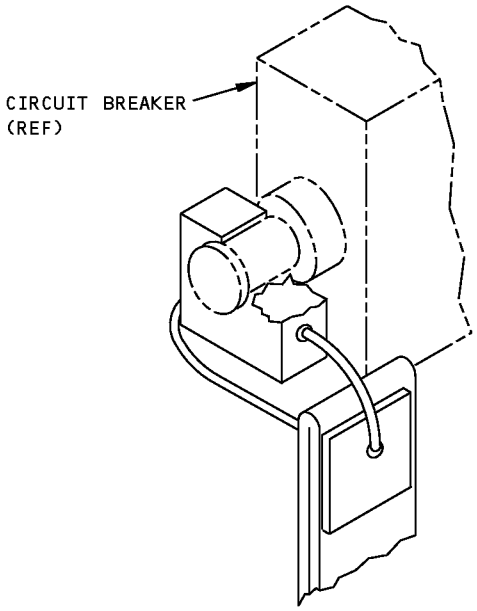
WEIGHT: B27020-29 - 1 lb (0.45 kg)
B27020-29 - 2 lbs (0.9 kg)

DIMENSIONS: B27020-29 - 6 x 6 x 12 inches
B27020-31 - 6 x 9 x 12 inches

NOTE: B27020-29 supersedes B27020-13.
B27065 supersedes B27020-11.
B27020-31 supersedes B27020-28.



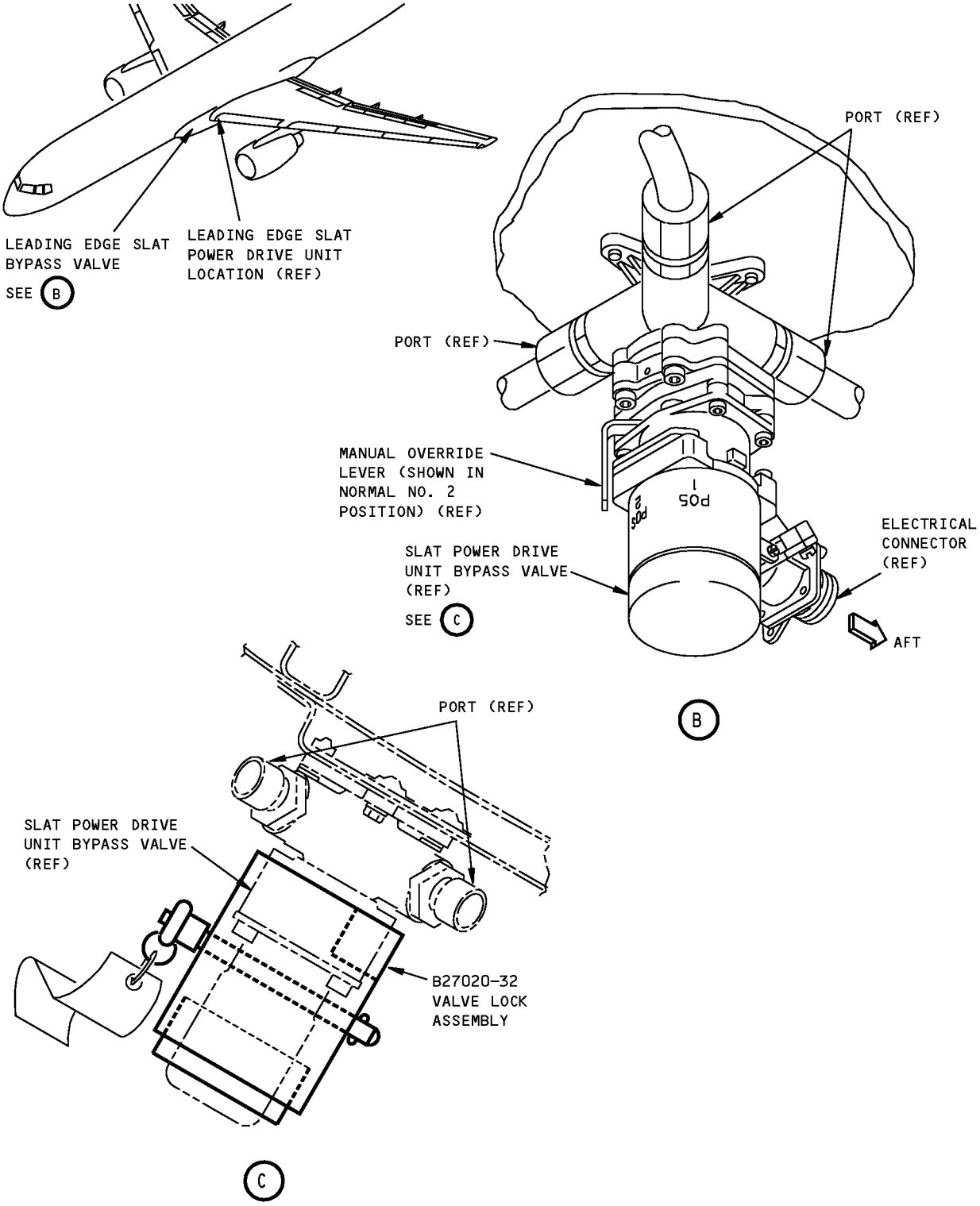
FLIGHT COMPARTMENT



B27065-12
CIRCUIT BREAKER LOCK ASSEMBLY SHOWN
B27065-25 SIMILAR

(A)

Leading Edge Slat Drive Lock Set
Figure 1 (Sheet 1 of 2)



Leading Edge Slat Drive Lock Set
Figure 1 (Sheet 2 of 2)

PART NUMBER: B27077-1

NAME: LOCK - LEADING EDGE SLAT DRIVE

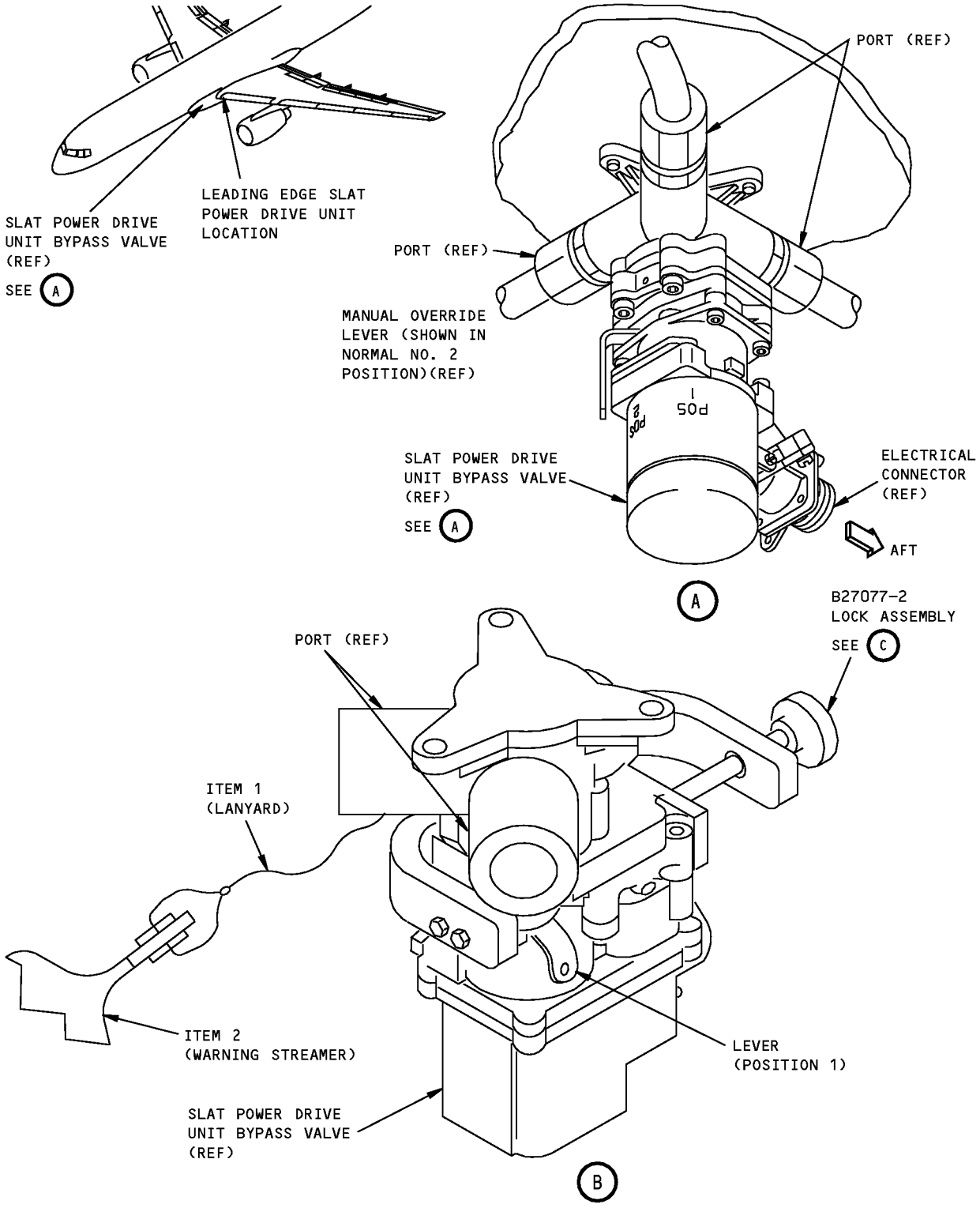
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

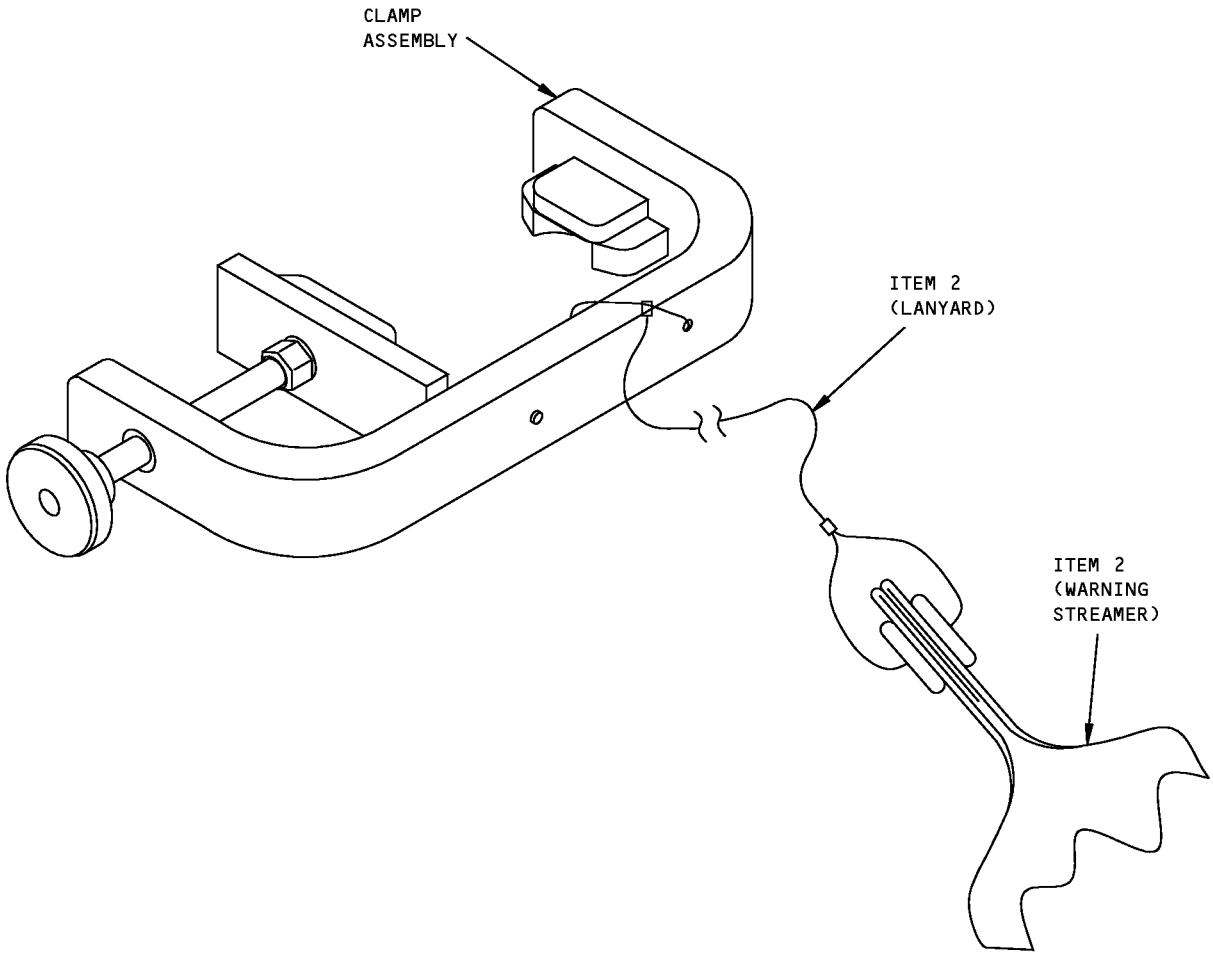
USAGE & DESCRIPTION: The B27077-1 lock is applicable to 757 airplanes manufactured after line number 642 and on airplanes incorporating Service Bulletin 757-29A0048. B27077 is used to hold the slat power drive unit bypass valve lever in position 1, preventing hydraulic operation of leading edge slats during maintenance. Refer to AMM 12-21-08 and AMM 27-81-00 for complete usage instructions. B27077-1 consists of a B27077-2 lock assembly contained in a storage box.

WEIGHT: 2 lbs (0.9 kg)

DIMENSIONS: 1 x 3 x 7 inches (25 x 76 x 178 mm)



Leading Edge Slat Drive Lock
Figure 1 (Sheet 1 of 2)



Leading Edge Slat Drive Lock
Figure 1 (Sheet 2 of 2)

B27077-1			
ITEM NO.	**PART NO.**	**NOMENCLATURE**	**VENDOR CODE**
1	CL-21-KA-12.0-LR	LANYARD	V99862
2	NAS1756-24	WARNING STREAMER	

PART NUMBER: B27073-1

NAME: LOCKOUT TOOL - OUTBOARD SLAT

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B27073-1 lockout tool is used on 757 airplanes that are equipped with 285N0011-32 (Mod A or B), -37 (Mod A or B) or -40 flap and slat electronics units (FSEU). B27073 is used as an aid in troubleshooting which rotary actuator caused a ''Leading Edge Slat Disagree'' message on the EICAS display. B27073 is used only when the problem occurred as the slats are extended.

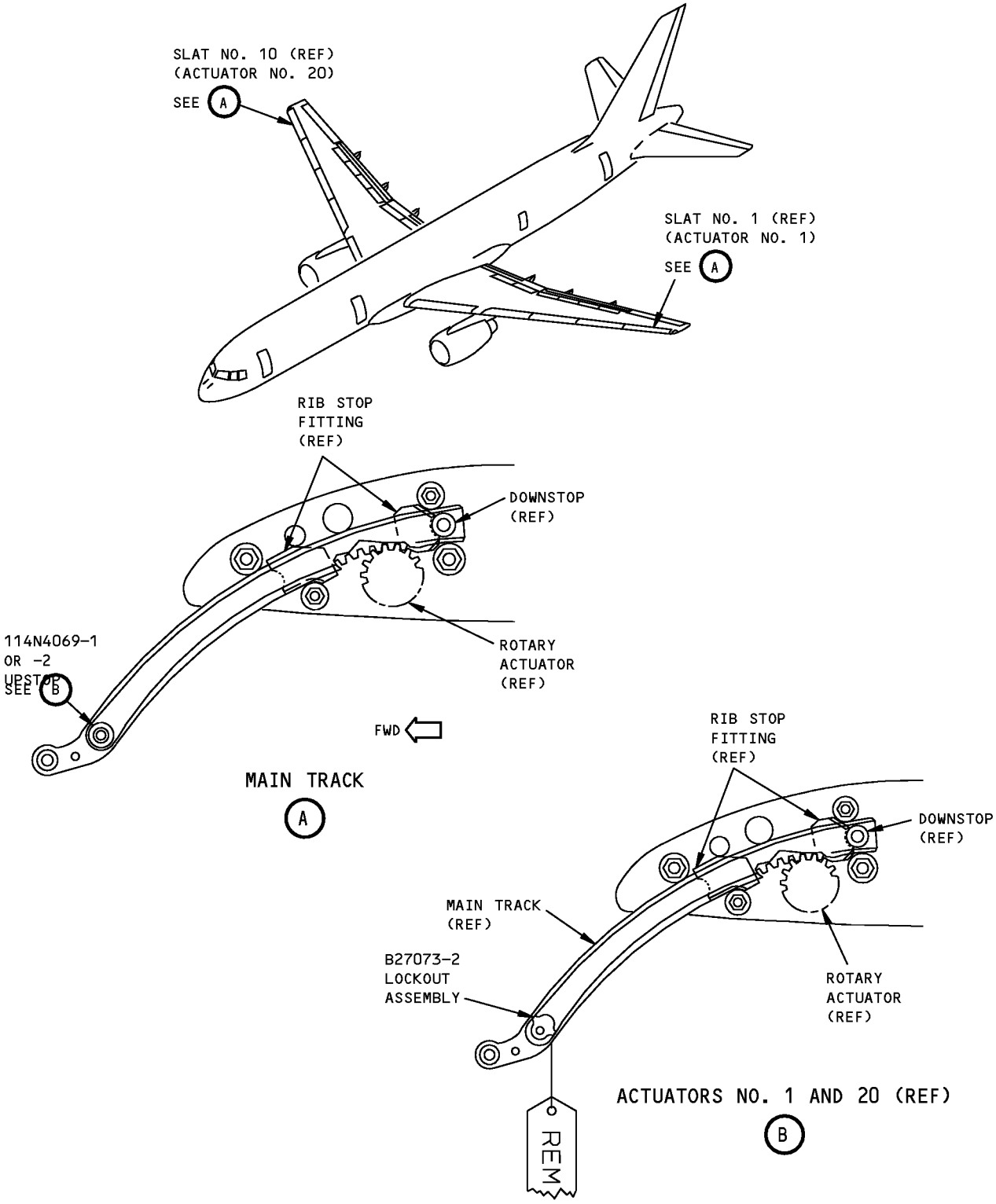
When troubleshooting a rotary actuator and the airplane is equipped with a 285N0011-32 (Mod A or B), -37 (Mod A or B) FSEU, two, customer-furnished, B27020-25 circuit breaker locks, a high lift data analyzer (HILDA) DFA-429, an ARINC 429 data analyzer and an SPL-4268 position transmitter tester breakout box are required. SPL-4268 is not required if HILDA or the 429 analyzer have a connector compatible with connector D1251.

When troubleshooting a rotary actuator and the airplane is equipped with a 285N0011-40 FSEU, only two, customer-furnished, B27020-25 circuit breaker locks are required.

B27073 is used in place of 114N4069-1 and -2 upstops on the number 1 or 20 outboard slat actuators. Refer to AMM 27-81-18 for complete usage instructions. B27073-1 consists of a B27073-2 lockout assembly contained in a storage box.

WEIGHT: 1 lb (0.45 kg)

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



Outboard Slat Lockout Tool
Figure 1

PART NUMBER: B27036-1

NAME: TEST EQUIPMENT - ANGLE GEARBOX, LEADING EDGE SLAT DRIVE

AIRPLANE MAINTENANCE: NO

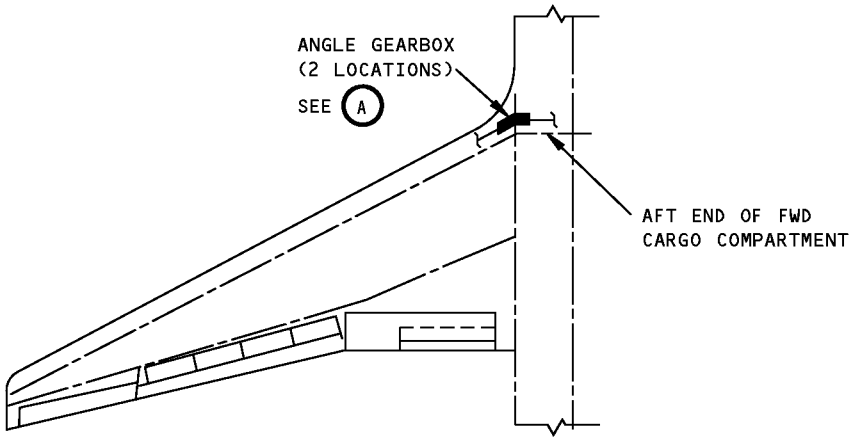
COMPONENT MAINTENANCE: YES

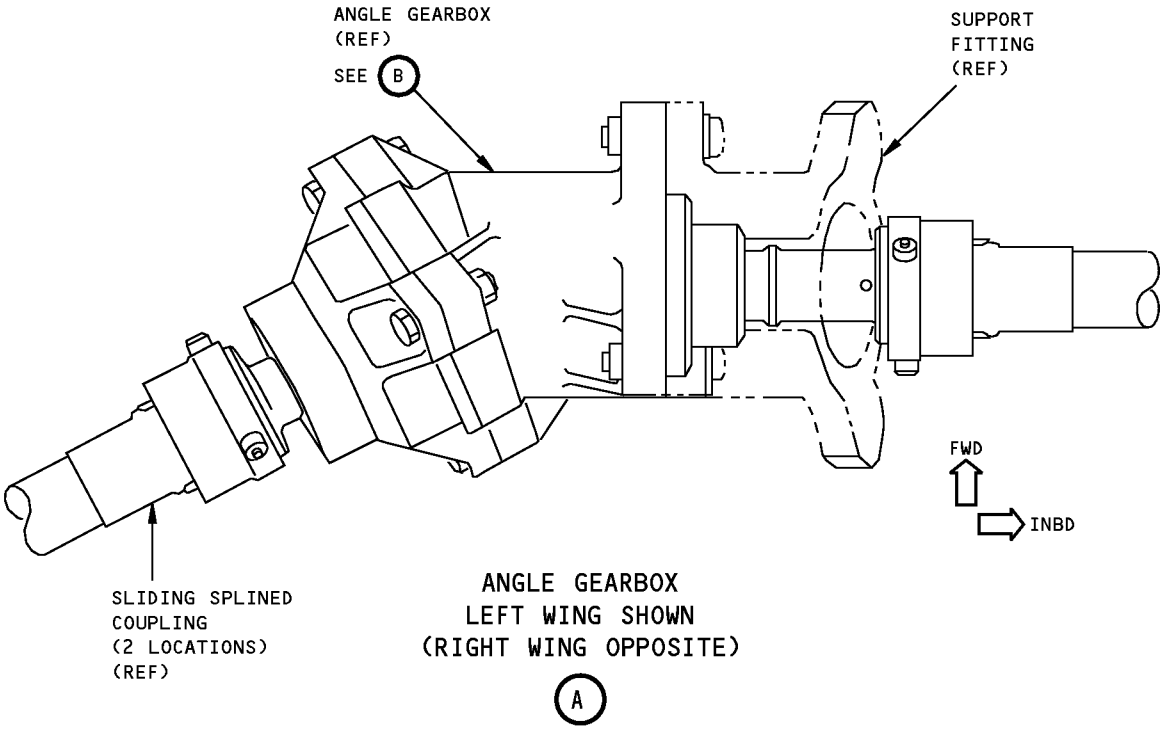
USAGE & DESCRIPTION: The B27036-1 test equipment is used during component maintenance on all 757 airplanes. B27036 is used to apply an outward load on each shaft during of the 251N5082 left or right-hand angle gearbox assembly. B27036 also checks gear backlash using a customer-furnished 1/4-inch drive torque wrench with a dial indicator. Refer to CMM 27-81-27 for complete usage instructions. B27036-1 consists of:

B27036-1		
QUANTITY	**NOMENCLATURE**	**PART NUMBER**
1	BASE ASSEMBLY	B27036-2
1	BRACKET ASSEMBLY	B27036-6
2	SPLINE WRENCH	B27036-18
1	REVERSIBLE WEIGHT ASSEMBLY	B27036-21
3	BOLT	AN4-12A
6	WASHER	AN960-C416L
3	NUT	MS35691-7
1	STORAGE BOX	

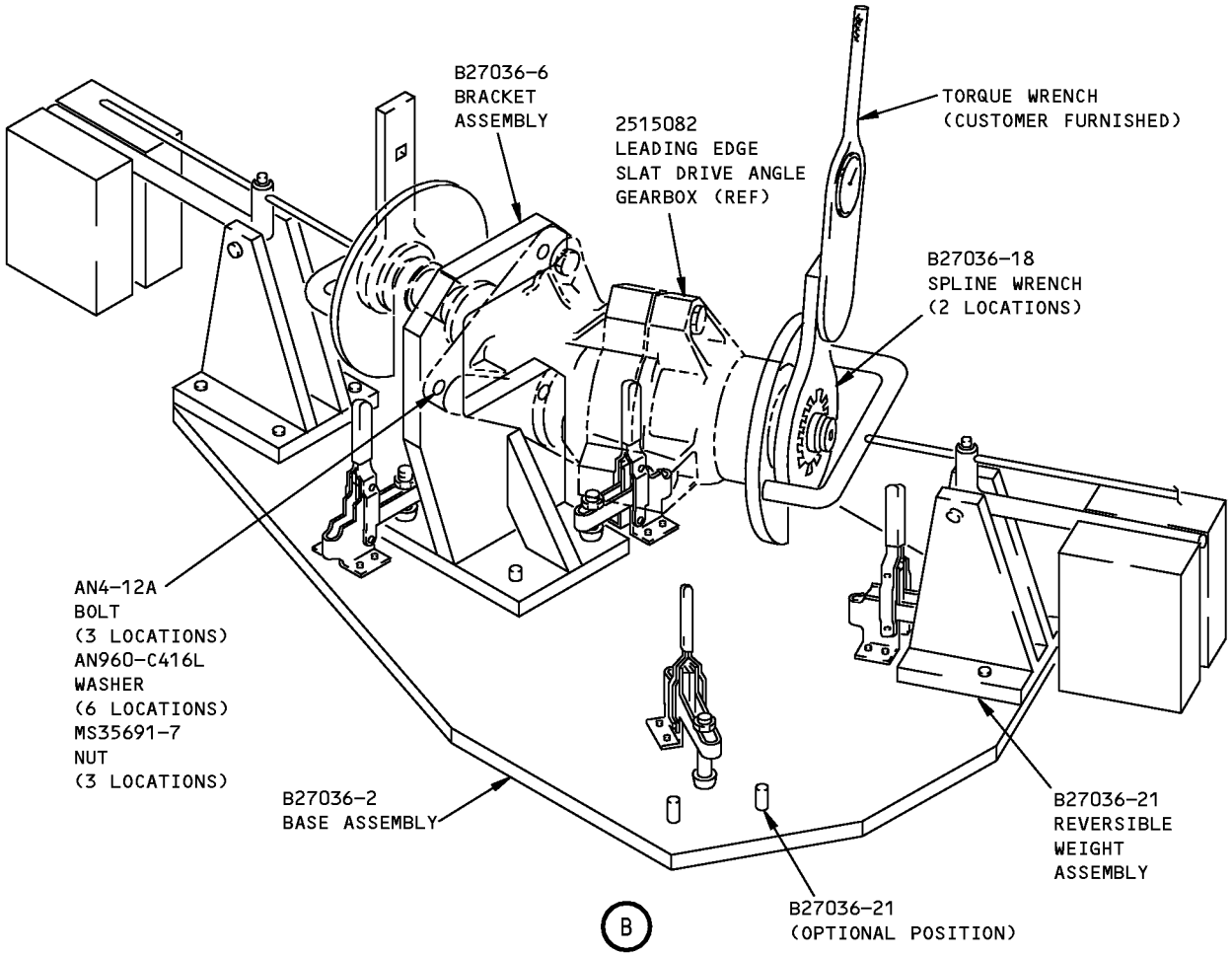
WEIGHT: 35 lbs (16 kg)

DIMENSIONS: 10 x 12 x 25 inches (254 x 305 x 635 mm)





Leading Edge Slat Drive Angle Gearbox Test Equipment
Figure 1 (Sheet 1 of 2)



Leading Edge Slat Drive Angle Gearbox Test Equipment
Figure 1 (Sheet 2 of 2)

PART NUMBER: A27092-84 WAS MOVED TO 27-30-22