CHAPTER

FLIGHT CONTROLS



CHAPTER 27 FLIGHT CONTROLS

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
EFFECTIVE PAG	iES	27-00-09 (cont)		27-00-15	
1 thru 4	Oct 10/2008	4	Apr 10/2006	1	Apr 10/2007
		5	Apr 10/2006	2	Apr 10/2007
27-CONTENTS		6	Apr 10/2006	27-00-16	
1	Apr 10/2008	7	Apr 10/2006	1	Oct 10/2006
R 2	Oct 10/2008	8	Apr 10/2006	2	Oct 10/2006
O 3	Oct 10/2008	9	Apr 10/2006	27-00-17	
O 4	Oct 10/2008	10	Apr 10/2006	1	Apr 10/2008
27-00-01		11	Apr 10/2006	2	Apr 10/2008
1	Apr 10/2006	12	Apr 10/2006	27-10-01	
2	Apr 10/2006	13	Apr 10/2006	1	Apr 10/2006
27-00-02		14	Apr 10/2006	2	Apr 10/2006
1	Apr 10/2006	15	Apr 10/2006	3	Apr 10/2006
2	Apr 10/2006	16	Apr 10/2006	4	Apr 10/2006
27-00-03		17	Apr 10/2006	27-10-02	
1	Apr 10/2006	18	Apr 10/2006	1	Apr 10/2006
2	BLANK	19	Apr 10/2006	2	Apr 10/2006
27-00-04		20	BLANK	27-10-03	
1	Oct 10/2006	27-00-10		1	Apr 10/2006
2	Apr 10/2006	1	Oct 10/2006	2	BLANK
3	Apr 10/2006	2	Oct 10/2006	27-10-04	
4	BLANK	27-00-11		1	Apr 10/2006
27-00-05		1	Oct 10/2006	2	Apr 10/2006
1	Oct 10/2006	2	Apr 10/2006	3	Apr 10/2006
2	Oct 10/2006	3	Apr 10/2006	4	Apr 10/2006
27-00-06		4	BLANK	27-10-05	
1	Oct 10/2006	27-00-12		1	Apr 10/2006
2	Oct 10/2006	1	Oct 10/2006	2	Apr 10/2006
27-00-07		2	Apr 10/2006	27-10-06	·
1	Oct 10/2006	3	Apr 10/2006	1	Apr 10/2006
2	Oct 10/2006	4	BLANK	2	Apr 10/2006
3	Oct 10/2006	27-00-13		3	Apr 10/2006
4	BLANK	1	Oct 10/2006	4	BLANK
27-00-08		2	Apr 10/2006	27-10-07	
1	Oct 10/2006	3	Apr 10/2006	1	Apr 10/2006
2	Apr 10/2006	4	Apr 10/2006	2	Apr 10/2006
27-00-09		27-00-14	•	27-10-08	•
1	Apr 10/2007	1	Apr 10/2006	1	Apr 10/2006
2	Apr 10/2006	2	BLANK	2	Apr 10/2006
3	Apr 10/2006				, · · · · · · · · · · · · · · · · · · ·

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27-EFFECTIVE PAGES

Page 1 Oct 10/2008



CHAPTER 27 FLIGHT CONTROLS

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
27-10-09		27-20-05		27-30-10 (cont)	
1	Apr 10/2006	1	Apr 10/2006	3	Apr 10/2006
2	BLANK	2	Apr 10/2006	4	Apr 10/2006
27-10-10		27-20-06		5	Apr 10/2006
1	Apr 10/2006	A 1	Oct 10/2008	6	BLANK
2	BLANK	A 2	Oct 10/2008	27-30-11	
27-10-11		A 3	Oct 10/2008	1	Apr 10/2006
1	Apr 10/2006	A 4	Oct 10/2008	2	BLANK
2	Apr 10/2006	27-30-01		27-30-12	
27-10-12		1	Apr 10/2006	1	Apr 10/2006
1	Apr 10/2006	2	Apr 10/2006	2	Apr 10/2006
2	Apr 10/2006	27-30-02		27-30-13	
27-10-13		1	Oct 10/2006	1	Apr 10/2008
1	Apr 10/2006	2	BLANK	2	Apr 10/2008
2	Apr 10/2006	27-30-03		3	Apr 10/2008
3	Apr 10/2006	1	Apr 10/2006	4	Apr 10/2008
4	BLANK	2	Apr 10/2006	5	Apr 10/2008
27-10-14		3	Apr 10/2006	6	Apr 10/2008
1	Apr 10/2006	4	Apr 10/2006	27-40-01	
2	BLANK	27-30-04		1	Apr 10/2006
27-10-15		1	Apr 10/2006	2	Apr 10/2006
1	Apr 10/2008	2	Apr 10/2006	3	Apr 10/2006
2	Apr 10/2008	27-30-05		4	Apr 10/2006
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27-20-01		27-30-06		7	Apr 10/2006
1	Apr 10/2006	1	Apr 10/2006	8	BLANK
2	Apr 10/2006	2	Apr 10/2006	27-40-02	
27-20-02		27-30-07		1	Apr 10/2006
1	Oct 10/2007	1	Apr 10/2006	2	Apr 10/2006
2	Oct 10/2007	2	BLANK	3	Apr 10/2006
27-20-03		27-30-08		4	Apr 10/2006
1	Apr 10/2006	1	Apr 10/2006	5	Apr 10/2006
2	Apr 10/2006	2	BLANK	6	BLANK
3	Apr 10/2006	27-30-09		27-40-03	
4	BLANK	1	Apr 10/2006	1	Apr 10/2006
27-20-04		2	Apr 10/2006	2	Apr 10/2006
1	Apr 10/2006	27-30-10		3	Apr 10/2006
2	Apr 10/2006	1	Apr 10/2006	4	Apr 10/2006
		2	Apr 10/2006		

A = Added, R = Revised, O = Overflow, D = Deleted

27-EFFECTIVE PAGES

Page 2 Oct 10/2008



CHAPTER 27 FLIGHT CONTROLS

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
27-40-04		27-50-08 (cont)		27-50-13 (cont)	
1	Apr 10/2006	2	BLANK	4	Apr 10/2006
2	Apr 10/2006	27-50-09		27-50-14	
27-40-05		1	Apr 10/2006	1	Apr 10/2006
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27-40-06		4	Apr 10/2006	4	Apr 10/2006
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1	Apr 10/2006	1	Apr 10/2006	27-50-16	
2	Apr 10/2006	2	Apr 10/2006	1	Apr 10/2006
27-50-02		3	Apr 10/2006	2	Apr 10/2006
1	Apr 10/2007	4	Apr 10/2006	27-50-17	
2	Apr 10/2006	5	Apr 10/2006	1	Apr 10/2006
3	Apr 10/2006	6	Apr 10/2006	2	Apr 10/2006
4	Apr 10/2007	7	Apr 10/2006	27-50-18	
5	Apr 10/2007	8	Apr 10/2006	1	Apr 10/2006
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27-50-03		10	BLANK	27-50-19	
1	Apr 10/2007	27-50-11		1	Oct 10/2007
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3	Apr 10/2007	2	Apr 10/2006	3	Apr 10/2006
4	Apr 10/2007	3	Apr 10/2006	4	Apr 10/2006
27-50-04		4	Apr 10/2006	5	Apr 10/2006
1	Oct 10/2006	5	Apr 10/2006	6	BLANK
2	Oct 10/2006	6	BLANK	27-50-20	
3	Oct 10/2006	27-50-12		1	Apr 10/2006
4	Oct 10/2006	1	Oct 10/2007	2	Apr 10/2006
27-50-05		2	Oct 10/2007	3	Apr 10/2006
1	Apr 10/2006	3	Apr 10/2007	4	Apr 10/2006
2	Apr 10/2006	4	Apr 10/2007	27-50-21	
27-50-06		5	Apr 10/2007	1	Apr 10/2006
1	Apr 10/2006	6	Apr 10/2007	2	Apr 10/2006
2	Apr 10/2006	7	Apr 10/2007	27-60-01	
27-50-07		8	Apr 10/2007	1	Apr 10/2006
1	Apr 10/2006	27-50-13		2	Apr 10/2006
2	Apr 10/2006	1	Oct 10/2006	27-60-02	
27-50-08		2	Oct 10/2006	1	Apr 10/2006
1	Apr 10/2006	3	Apr 10/2006	2	Apr 10/2006

A = Added, R = Revised, O = Overflow, D = Deleted

27-EFFECTIVE PAGES

Page 3 Oct 10/2008



CHAPTER 27 FLIGHT CONTROLS

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
27-60-02 (con	t)	27-80-07		27-80-17 (cont)	
3	Apr 10/2006	1	Apr 10/2007	R 2	Oct 10/2008
4	BLANK	2	Apr 10/2006	3	Apr 10/2008
27-60-03		3	Apr 10/2006	4	Apr 10/2008
1	Apr 10/2006	4	Apr 10/2006	27-80-18	
2	Apr 10/2006	5	Apr 10/2006	1	Apr 10/2006
27-60-04		6	BLANK	2	BLANK
1	Apr 10/2006	27-80-08		27-80-19	
2	BLANK	1	Apr 10/2006	1	Apr 10/2006
27-60-05		2	Apr 10/2006	2	Apr 10/2006
1	Apr 10/2006	27-80-09		3	Apr 10/2006
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27-60-06		2	Apr 10/2006	27-80-20	
1	Apr 10/2006	27-80-10		1	Apr 10/2006
2	Apr 10/2006	1	Apr 10/2006	2	BLANK
27-60-07		2	Apr 10/2006	27-80-21	
1	Oct 10/2006	27-80-11		1	Apr 10/2006
2	Oct 10/2006	1	Apr 10/2006	2	Apr 10/2006
27-80-01		2	Apr 10/2006	27-80-22	
1	Apr 10/2006	27-80-12		1	Apr 10/2006
2	Apr 10/2006	1	Apr 10/2006	2	Apr 10/2006
27-80-02		2	Apr 10/2006	3	Apr 10/2006
1	Apr 10/2006	3	Apr 10/2006	4	BLANK
2	Apr 10/2006	4	Apr 10/2006	27-80-23	
27-80-03		5	Apr 10/2006	1	Apr 10/2007
1	Oct 10/2006	6	Apr 10/2006	2	Apr 10/2006
2	Apr 10/2006	27-80-13		3	Apr 10/2006
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4	Apr 10/2006	2	Apr 10/2006		
5	Oct 10/2006	27-80-14			
6	BLANK	1	Apr 10/2006		
27-80-04		2	Apr 10/2006		
1	Apr 10/2006	27-80-15			
2	Apr 10/2006	1	Apr 10/2006		
27-80-05		2	Apr 10/2006		
1	Apr 10/2006	27-80-16			
2	Apr 10/2006	1	Apr 10/2006		
27-80-06		2	Apr 10/2006		
1	Apr 10/2006	27-80-17			
2	BLANK	0 1	Oct 10/2008		

A = Added, R = Revised, O = Overflow, D = Deleted

27-EFFECTIVE PAGES

Page 4 Oct 10/2008



TABLE OF CONTENTS

Subject	<u>Title</u>	Part No.
27-	FLIGHT CONTROLS	
27-00-01	HOIST BRACKET - FISHPOLE HOIST FLAP PDU	A27026-7
27-00-02	BREAKOUT BOX - BENCH TEST	A27039-1, -19, -26, -27
27-00-03	BREAKOUT BOX - PRINTED CIRCUIT CARD	A27038-1, -10, -20, -6
27-00-04	TEST BOX - POWER SUPPLY, CSEU	A27030-66
27-00-05	TEST BOX - NOISE, CSEU POWER SUPPLY	A27045-16
27-00-06	TEST BOX - REGULATOR, CSEU POWER SUPPLY	A27052-1
27-00-07	TEST BOX - MONITOR, CSEU POWER SUPPLY	A27053-26, -29, -32
27-00-08	BREAKOUT BOX - CHOPPER/REGULATOR POWER SUPPLY, CSEU	A27059-1
27-00-09	BREAKOUT BOX EQUIPMENT - POSITION SENSORS, FLIGHT CONTROLS RIGGING	A27063-71, -91
27-00-10	BREAKOUT BOX - FSEU/CSEU POWER SUPPLY	B27018-19
27-00-11	TEST BOX - CONVERTER, CSEU POWER SUPPLY	A27044-53
27-00-12	READOUT AND CONTROL EQUIPMENT - FUNCTIONAL TEST STANDS	A27081-1, -2
27-00-13	TEST BOX - ANALOG PRINTED CIRCUIT, RUDDER RATIO	A27085-1
27-00-14	TEST BOX - STICK NUDGER	A27100-1
27-00-15	WRENCH - SPANNER, SAFETY LANYARD, TIEDOWN LOCKS	2ME65B00002
27-00-16	TEST BOX - POWER SUPPLY, CONTROL SYSTEM ELECTRONICS UNIT/CSEU	B27079-19
27-00-17	MEASUREMENT TOOL - RUDDER AND ELEVATOR POWER CONTROL ACTUATOR	A27125-1
27-10-01	LOCK - OUTBOARD AILERON	A27005-1
27-10-02	DEACTIVATION EQUIPMENT - INBOARD AILERON	A27013-1
27-10-03	PROTRACTOR ASSEMBLY - CONTROL COLUMN	4MIT65B80307-1
27-10-04	REMOVAL/INSTALLATION SLING EQUPMENT - INBOARD/ OUTBOARD AILERON	A27015-1
27-10-05	STRAIGHTEDGE - CONTROL WHEEL	A27020-1
27-10-06	ADAPTER EQUIPMENT - CONTROL WHEEL	A27021-29, -96, -98
27-10-07	RIGGING BAR - AILERON	A27024-29, -31, -47, -55
27-10-08	REMOVAL/INSTALLATION FIXTURE - LOAD LIMITER AILERON CONTROL SPRING	A27029-28
27-10-09	CHECK FIXTURE - AILERON CONTROL LOAD LIMITER SPRING	A27028-11
27-10-10	TEST EQUIPMENT - OUTBOARD AILERON LOCKOUT MECHANISM	A27037-1

27-CONTENTS

Page 1 Apr 10/2008



Subject	<u>Title</u>	Part No.
27-10-11	LINK - DUMMY TRIM ACTUATOR, AILERON	A27088-13, -6
27-10-12	BUSHING PULLER - OUTBOARD AILERON ACTUATOR	A27106-1
27-10-13	MOUNT EQUIPMENT - INBOARD AILERON RIGGING BAR	A27110-1, -20
27-10-14	ADAPTER CABLE - OUTBOARD AILERON LOCKOUT	G27033-2
27-10-15	TEST EQUIPMENT - OUTBOARD AILERON LOCKOUT ACTUATOR	A27115-34, -41
27-20-01	LOCK SET - ACTUATOR, RUDDER	A27003-23
27-20-02	ADAPTER - RUDDER PEDAL FORCE CHECK	F80212-30
27-20-03	SLING EQUIPMENT - RUDDER INSTALLATION/REMOVAL	A27022-75, -81
27-20-04	PROTRACTOR BRACKET EQUIPMENT - FEEL CENTERING AND TRIM INSTALLATION, RUDDER CONTROL	A27057-1, -13, -9
27-20-05	RIGGING BAR - RATIO CHANGER INSTALLATION, RUDDER CONTROL	A27109-1
27-20-06	FORCE EQUIPMENT - RUDDER FREEPLAY CHECK	A27124-1
27-30-01	LOCK EQUIPMENT - ELEVATOR ACTUATOR	A27111-11
27-30-02	TEST BOX - BITE DISPLAY PCA, WARNING ELECTRONIC UNIT (WEU)	A27098-1
27-30-03	SLING EQUIPMENT - INBOARD/OUTBOARD ELEVATOR SEGMENT	A27012-30
27-30-04	PCA GAGES - INBD/OUTBD AILERON, RUDDER, ELEVATOR	A27001-1, -2, -3, -4
27-30-05	RIGGING EQUIPMENT - FORCE TRANSDUCER, ELEVATOR CONTROL	A27025-1
27-30-06	WRENCH - RETAINER NUT, BUSHING, ELEVATOR HINGE	A55002-1
27-30-07	ADAPTER - RUDDER/ELEVATOR FEEL ACTUATOR CYLINDER	A27035-1
27-30-08	TEST FIXTURE - FEEL ACTUATOR CYLINDER ASSEMBLY	F80085-1, -12
27-30-09	TEST EQUIPMENT - ELEVATOR FEEL AND CENTERING UNIT	A27041-177
27-30-10	JIG EQUIPMENT - ELEVATOR FEEL AND CENTERING UNIT	A27058-60
27-30-11	ALIGNMENT PIN - FEEL ACTUATOR PISTON	B27070-1
27-30-12	SUPPORT FIXTURE - ELEVATOR SLAVE LINKAGE	A27086-10
27-30-13	INSPECTION EQUIPMENT - ELEVATOR FREEPLAY	J27079-31
27-40-01	HOIST EQUIPMENT - HORIZONTAL STABILIZER TRIM ACTUATOR	A27006-41
27-40-02	TOOL SET - STABILIZER TRIM DRIVE	A27062-1
27-40-03	TEST FIXTURE - STABILIZER TRIM DRIVE MECHANISM	A27072-55
27-40-04	SLING ASSEMBLY - STABILIZER TRIM DRIVE MECHANISM	A27085-1
27-40-05	SCALE - CONTROL COLUMN ANGLE	A27095-10
27-40-06	MEASUREMENT EQUIPMENT BEVEL GEAR TEETH, STABILIZER TRIM ACTUATOR	A27123-1
27-50-01	LOCK - TRAILING EDGE FLAPS	A27009-7

27-CONTENTS

Page 2 Oct 10/2008



Subject	<u>Title</u>	Part No.
27-50-02	SLING EQUIPMENT - INBOARD TRAILING EDGE FLAP	A27016-27
27-50-03	SLING EQUIPMENT - OUTBOARD TRAILING EDGE FLAP	A27027-53, -54
27-50-04	TEST BOX - FLAP/SLAT ELECTRONIC UNIT (FSEU) POWER SUPPLY/YAW DAMPER ELECTROMAGNETIC INTERFACE (EMI)	
	FILTER	A27036-22
27-50-05	CHECK EQUIPMENT - BEARING WIDTH	A27040-18
27-50-06	FIXTURE - TRAILING EDGE FLAP DRIVE WORM GEAR SHIM THICKNESS	A27055-1
27-50-07	RESTRAINT - AFT FLAP TO INBD TRAILING EDGE FLAP	A27019-8
27-50-08	ADAPTER - FLAP DRIVE	F70300-1
27-50-09	TOOL SET - TRAILING EDGE ROTARY ACTUATOR	A27061-44, -46, -54
27-50-10	TEST FIXTURE - POWER DRIVE COMPONENTS FLIGHT CONTROL	A27046-140, -141, -160, -163, -176, -177, -191, -192, -3, -4, -8, -99
27-50-11	LOCK SET - INBOARD AND OUTBOARD FLAP LINKAGE, TE	A27074-128, -146
27-50-12	TEST EQUIPMENT - POWER DRIVE UNIT, TE FLAP AND LE SLAT DRIVE	A27079-78, -89, -96
27-50-13	TEST EQUIPMENT - ROTARY ACTUATOR TRAILING EDGE FLAP	A27071-123, -48, -84
27-50-14	TEST EQUIPMENT - TE FLAPS ASYMMETRY FAULT ISOLATION	A27093-1, -27
27-50-15	SHAFT CLAMP - TE FLAP DRIVE	A27099-1
27-50-16	AUXILIARY DETENT - FLAP ADJUSTMENT ASSEMBLY	A27105-9
27-50-17	DUMMY LINK SET - FLAP LOAD RELIEF ACTUATOR	A27107-1
27-50-18	TEST EQUIPMENT - LEAKAGE TEST	J27054-1
27-50-19	LOCK EQUIPMENT - INBOARD AND OUTBOARD TE, FLAP LINKAGE	A27118-90
27-50-20	ASSEMBLY/DISASSEMBLY EQUIPMENT - ROTARY ACTUATOR TRAILING EDGE FLAP	A27120-43
27-50-21	WRENCH EQUIPMENT - BEARING RETAINING NUT, INBOARD FLAP LINKAGE	A27122-1
27-60-01	LOCK SET - SPOILER ACTUATOR	A27108-13
27-60-02	FUNCTIONAL TEST EQUIPMENT - SPOILER ACTUATOR	A27042-1
27-60-03	TEST EQPMT FIXTURE - INBD/OUTBD SPOILER ACTUATOR	A27043-1
27-60-04	TEST BLOCK - SPOILER ACTUATOR VALVE CARTRIDGE	A27047-1
27-60-05	WRENCH - SPOILER ACTUATOR ASSEMBLY ADJUSTMENT	A27075-1
27-60-06	WRENCH - CONTROL LEVER, SPEED BRAKE	A27087-1
27-60-07	BREAKOUT BOX - SPOILER PANEL POSITION MONITOR AND RELAY CIRCUIT PCA'S	A27096-1
27-80-01	HOIST ADAPTER - LEADING EDGE SLAT DRIVE	A27004-1, -2
27-80-02	GROUND LOCK - LEADING EDGE SLATS	A27007-1

27-CONTENTS

Page 3 Oct 10/2008



Subject	<u>Title</u>	Part No.
27-80-03	SLING EQUIPMENT - LEADING EDGE SLAT	A27017-41
27-80-04	SPACER KIT - INBOARD/OUTBOARD SLAT INSTALLATION	A27023-22
27-80-05	CHECK FIXTURE - LEADING EDGE SLAT ANGLE GEARBOX BACKLASH	A27049-1
27-80-06	WRENCH - ADJUSTMENT, INBOARD LEADING EDGE SLATS	A27101-5
27-80-07	FIXTURE - CHECK, GEARBOX BACKLASH	A27048-1, -2, -3, -40
27-80-08	TOOL SET - TE FLAP DRIVE AND LE SLAT DRIVE GEARBOXES	A27051-1, -31
27-80-09	HOLDING FIXTURE EQUIPMENT - GEAR ASSEMBLY, LE SLAT DRIVE	A27119-1
27-80-10	SOCKET - THIN WALL, GEARBOX, INBOARD LEADING EDGE SLAT DRIVE	A27073-1
27-80-11	JIG EQUIPMENT - INBOARD AND OUTBOARD LEADING EDGE SLAT DRIVE AND TRAILING EDGE FLAP DRIVE POWER CONTROL UNIT	A27060-11
27-80-12	BEARING INSTALLATION EQUIPMENT - ROTARY BEARING INSTALLATION EQUIPMENT - ROTARY LEADING EDGE SLAT DRIVE	A27070-48, -61, -65, -80
27-80-13	RIGGING EQUIPMENT - LEADING EDGE SLAT POSITION SENSOR SWITCH	A27112-1
27-80-14	ADAPTER - LEADING EDGE SLAT DRIVE	A27077-1
27-80-15	SPLINE ADAPTERS - LEADING EDGE SLAT DRIVE ROTARY ACTUATORS AND GEARBOXES	A27078-7
27-80-16	GAGE - RIGGING, LEADING EDGE SLAT OUTBOARD WING	A27089-9
27-80-17	ACTUATOR/DEACTUATOR SET - PROXIMITY SENSORS	A27092-106, -84
27-80-18	SPACER SET - PRELOAD, LEADING EDGE SLAT RIGGING	A27094-1, -5
27-80-19	ADAPTER - LEADING EDGE SLAT AND TRAILING EDGE FLAP, MANUAL DRIVE	A27102-7
27-80-20	TEST EQUIPMENT - LE SLAT 5 AND 8, INBOARD OFFSET GEARBOX	A27117-1
27-80-21	SLING - OUTBOARD SLAT PDU	A27116-1
27-80-22	FIXTURE-HOLDING, GEAR ASSEMBLY, LE SLAT DRIVE	A27054-14
27-80-23	TOOL SET - SEAL INSTALLATION	A27121-1

27-CONTENTS

Page 4 Oct 10/2008



PART NUMBER: A27026-7

NAME: HOIST BRACKET - FISHPOLE HOIST FLAP PDU

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is a welded steel bracket that provides a hoist point for a customer-

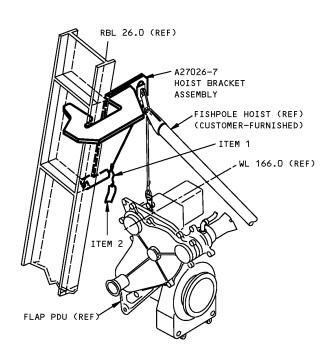
furnished fishpole hoist for removal/ installatiom of the flap Power Drive Unit (PDU). This tool is used on all 767 airplanes. This tool consists of a bracket assembly and a box assembly. The bracket mounts on the adjoining aft wheel well hinge beam structure to provide a stable interface between the

fishpole hoist, the cable assembly, and the PDU.

WEIGHT: 8 lbs (3.6 kg)

DIMENSIONS: 12 x 12 x 14 inches (305 x 305 x 356 mm)

NOTE: A27026-7 supersedes A27026-1.



Flap PDU Fishpole Hoist Hoist Bracket Figure 1

REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	ITEM NO. PART NO. NOMENCLATURE VENDOR CODE				
1	CL-21-KA-4.0LR	LANYARD	V99862		



REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE		
2 NAS1756-24 WARNING STREAMER					
3	F70308-15	PROOF LOAD TAG			



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)

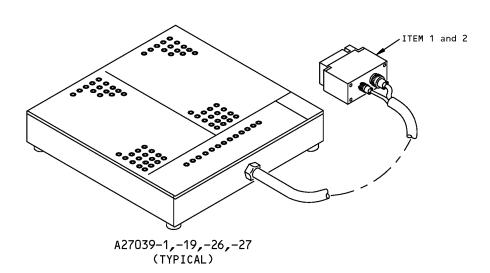
A27039-19, -27 - 8 lbs (3.6 kg)

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 future procurement.

A27039-19 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	CONNECTOR	V71468		
2	S612MG13W2 P0001	CONNECTOR (OPT TO BKAD2-313-30001)	V59610		



PART NUMBER: A27038-1, -6, -10, -20

NAME: BREAKOUT BOX - PRINTED CIRCUIT CARD

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: These breakout boxes are used to functional test printed cards having

common connectors. The -1 breakout box assembly test cards with 66-pin connectors, the -6 tests cards with 114-pin conectors, and the -10 tests cards with 41-pin connectors. The -1,-6, and -10 are applicable to all 767s. The -20 is used to test cards with 160-pin connectors and is applicable to the 767

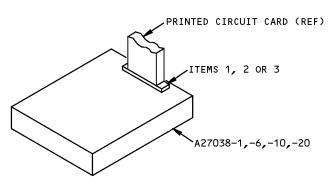
general market freighter only.

WEIGHT: A27038-1 - 2 lbs (0.9 kg)

A27038-6 - 3 lbs (1.4 kg) A27038-10 - 1 lb (0.45 kg) A27038-20 - 4 lbs (1.8 kg)

DIMENSIONS: A27038-1 - 2 x 7 x 11 inches (51 x 178 x 279 mm)

A27038-6 - 3 x 12 x 12 inches (76 x 305 x 305 mm) A27038-10 - 2 x 7 x 7 inches (51 x 178 x 178 mm) A27038-20 - 3 x 10 x 14 inches (76 x 254 x 356 mm)



Printed Circuit Card Breakout Box Figure 1

REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	300052-001 (-1 ASSY)	J1 CONNECTOR	V03877	
2	300206-001 (-6 ASSY)	J1 CONNECTOR	V03877	
3	300055-001 (-10 ASSY)	J1 CONNECTOR	V03877	

PART NUMBER: A27030-66

NAME: TEST BOX - POWER SUPPLY, CSEU

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 767 ITEM is for information

and historical purposes only.

This tool is used to functionally test the circuitry and connections within the Control System Electronics Unit (CSEU) power supply assembly. This tool is used on 767-200 and -300 airplanes equipped with the 285T0017-1xx series CSEU, but not the 285T0017-2xx and on series CSEU. The equipment number references are M536, M537, M538 and M539. Refer to CMM 27-09-56 and

CMM 27-09-57 for further usage instructions.

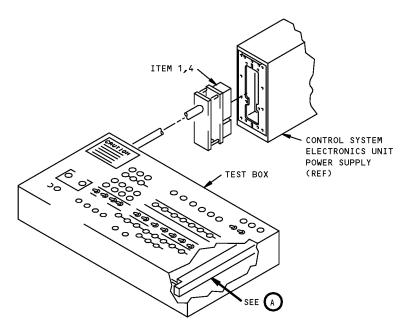
WEIGHT: 10 lbs (4.5 kg)

DIMENSIONS: 5 x 10 x 17 inches (127 x 254 x 432 mm)

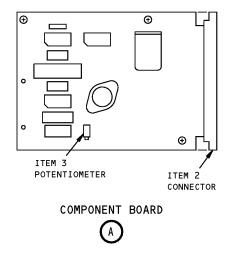
NOTE: A27030-66 supersedes A27030-51.

A27030-51 supersedes A27030-48. A27030-48 supersedes A27030-43. A27030-43 supersedes A27030-42. A27030-42 supersedes A27030-38.





Control System Electronics Unit Power Supply Test Box Figure 1 (Sheet 1 of 2)



Control System Electronics Unit Power Supply Test Box Figure 1 (Sheet 2 of 2)



	REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE			
1	BKAE2-313-30001	CONNECTOR (OPT BKAD2-313-30001)	V71468			
2	R636-2	CONNECTOR	V82893			
3	68W-R100K	TRIM POTENTIOMETER	V05721			
4	BKAD2-313-30001	CONNECTOR (OPT BKAE2-313-30001)	V71468			

PART NUMBER: A27045-16

NAME: TEST BOX - NOISE, 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 767 ITEM is for information

and for historical purposes only.

This tool is used to test for noise levels within the Control System Electronics Unit (CSEU) power supply assembly 285T0017. This tool is used on 767-200 and -300 airplanes equipped with the 285T0017-1xx series CSEU, but not the 285T0017-2xx and on series CSEU. The equipment number references are M536, M537, M538 and M539. Refer to CMM 27-09-56 and CMM 27-09-57 for further usage instructions. This tool consists of a box assembly, a box lid

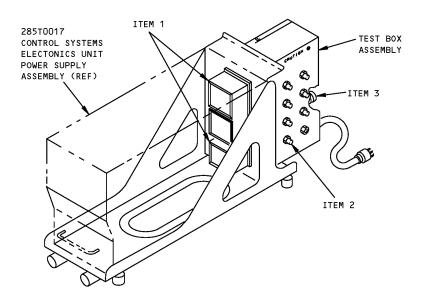
assembly, a tray assembly and related hardware.

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.





Control System Electronics Unit Power Supply Noise Test Box 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: A27052-1

NAME: TEST BOX - REGULATOR, 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 767 ITEM is for information

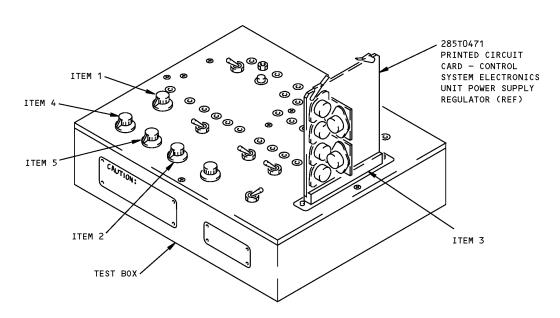
and historical purposes only.

This tool is used to functionally test the control system electronics unit power supply regulator printed circuit card 285T0471. This tool is used on 767-200 and -300 airplanes equipped with the 285T0017-1xx series CSEU, but not the 285T0017-2xx and on series CSEU. The equipment number references are M536, M537, M538 and M539. Refer to CMM 27-09-56 and CMM 27-09-57 for

further usage instructions.

WEIGHT: 9 lbs (4.1 kg)

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



Control System Electronics Unit Power Supply Regulator Test Box Figure 1



REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE		
1	7286R20KL.25	POTENTIOMETER	V05721		
2	VWS200	POTENTIOMETER	V37942		
3	300052-003	CONNECTOR	V03877		
4	VWS50	POTENTIOMETER	V37942		
5	7286R1KL.25	POTENTIOMETER	V05721		

PART NUMBER: A27053-26, -29, -32

NAME: TEST BOX - MONITOR, 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 767 ITEM is for information

and historical purposes only.

Test box is used to functionally test the Control System Electronics Unit (CSEU) monitor printed circuit assembly. This tool is used on 767-200 and -300 airplanes equipped with the 285T0017-1xx series CSEU, but not the 285T0017-2xx and on series CSEU. The equipment number references are M536, M537, M538 and M539. Refer to CMM 27-09-56 and CMM 27-09-57 for

complete test instructions.

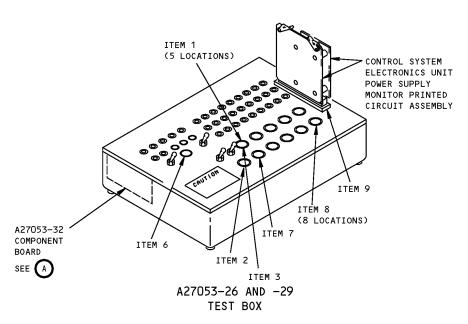
WEIGHT: 10 lbs (4.5 kg)

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

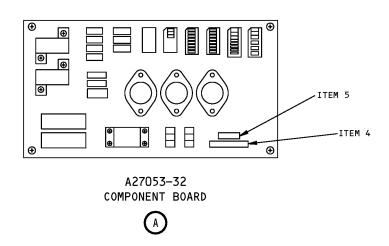
NOTE: A27053-29 replaces A27053-26 for future procurement.

A27053-26 supersedes A27053-23.





Control System Electronics Unit Power Supply Monitor Test Box Figure 1 (Sheet 1 of 2)



Control System Electronics Unit Power Supply Monitor Test Box Figure 1 (Sheet 2 of 2)



REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	PS-57	WAFER	V3V044	
2	PSA-221	SWITCH	V3V044	
3	PSA-513	SWITCH	V3V044	
4	78PR100K	POTENTIOMETER	V05721	
5	89XR10K	POTENTIOMETER	V05721	
6	312 001	FUSE	V0UA64	
7	7286R10K	POTENTIOMETER	V05721	
8	7286R500	POTENTIOMETER	V05721	
9	300052-003	CONNECTOR	V82316	



PART NUMBER: A27059-1

NAME: BREAKOUT BOX - CHOPPER/REGULATOR POWER SUPPLY, CSEU

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27059 drawing has been transferred to BAE Systems and will no longer

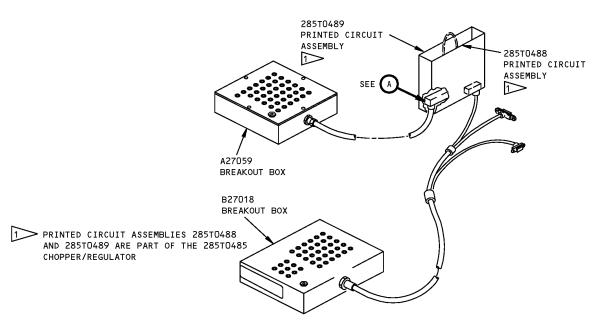
be revised by Boeing. The A27059 inclusion in the 767 ITEM is for information $\,$

and historical purposes only.

This tool is used in conunction with B27018 FSEU/CSEU power supply breakout box to test the 285T0485 CSEU chopper/ regulator printed wiring assembly. This tool is used on 767-200 and -300 airplanes equipped with the 285T0017-1xx series CSEU, but not the 285T0017-2xx and on series CSEU. The equipment number references are M536, M537, M538 and M539. Refer to CMM 27-09-56 and CMM 27-09-57 for further usage instructions. This tool consists of a chassis assembly, related components and hardware.

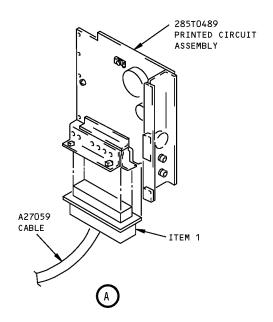
WEIGHT: 3 lbs (1.4 kg)

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



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





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

REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	ITEM NO. PART NO. NOMENCLATURE VENDOR CODE				
1	DCC-37P	P1 CONNECTOR	V71468		

PART NUMBER: A27063-71, -91

NAME: BREAKOUT BOX EQUIPMENT - POSITION SENSORS, FLIGHT CONTROLS

RIGGING

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27063-91 breakout box equipment is used on all 767 airplanes. The

A27063-71 is used on 767 airplanes prior to line number 403 and has been replaced for future procurement by the A27063-91. The A27063-91 breakout box and cable assemblies are used on the airplane to adjust position sensors during rigging of the flight control system and components.

The A27063 cable assemblies are used to connect the A27063 breakout box to the position sensor (option I) or between the sensor and airplane wiring (option II). The A27063-92 thru -97 cable assemblies are used on 767 airplane line numbers 403 and on. The A27063-107 cable assembly is limited to 767 airplanes equipped with General Electric CF6-80C2F engines (with FADEC). A27063-124,-125, -126 cable assemblies are typically used (but not all inclusive) on 767 airplanes, prior to line number 801, equipped with 253T4015-1 thru -6 transducers. A27063-124, -125,-126 cable assemblies also include those airplanes that incorporate service bulletin 767-31-0118 and 767-31-0120 but are not applicable to 767-400 airplanes. A27063-91 breakout box equipment includes the A27063-2 breakout box and applicable cables determined by the mate-with tables, model applicability tables and the procurement agency. The information included on this tool is for guick familiarity and should not be used as a purchasing aid. Refer to the current A27063 drawing and the applicable maintenance manual reference for complete usage and purchasing information.

A27063-91 consists of:

A27063-91					
QUANTITY	NOMENCLATURE	PART NUMBER			
1	BREAKOUT BOX	A27063-2			
1	USAGE PLACARD	A27063-83			
1	DATA PACKAGE	A27063-123			
1	CABLE ASSEMBLY	A27063-18			
1	CABLE ASSEMBLY	A27063-19			
1	CABLE ASSEMBLY	A27063-20			
1	CABLE ASSEMBLY	A27063-21			
1	CABLE ASSEMBLY	A27063-22			
1	CABLE ASSEMBLY	A27063-23			



	A27063-91					
QUANTITY	NOMENCLATURE	PART NUMBER				
1	CABLE ASSEMBLY	A27063-24				
1	CABLE ASSEMBLY	A27063-25				
1	CABLE ASSEMBLY	A27063-26				
1	CABLE ASSEMBLY	A27063-27				
1	CABLE ASSEMBLY	A27063-28				
1	CABLE ASSEMBLY	A27063-29				
1	CABLE ASSEMBLY	A27063-30				
1	CABLE ASSEMBLY	A27063-31				
1	CABLE ASSEMBLY	A27063-32				
1	CABLE ASSEMBLY	A27063-33				
1	CABLE ASSEMBLY	A27063-34				
1	CABLE ASSEMBLY	A27063-35				
1	CABLE ASSEMBLY	A27063-36				
1	CABLE ASSEMBLY	A27063-37				
1	CABLE ASSEMBLY	A27063-40				
1	CABLE ASSEMBLY	A27063-41				
1	CABLE ASSEMBLY	A27063-76				
1	CABLE ASSEMBLY	A27063-77				
1	CABLE ASSEMBLY	A27063-92				
1	CABLE ASSEMBLY	A27063-93				
1	CABLE ASSEMBLY	A27063-94				
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1	CABLE ASSEMBLY	A27063-96				
1	CABLE ASSEMBLY	A27063-97				
1	CABLE ASSEMBLY	A27063-107				
1	CABLE ASSEMBLY	A27063-113				
1	CABLE ASSEMBLY	A27063-114				
1	CABLE ASSEMBLY	A27063-115				
1	CABLE ASSEMBLY	A27063-116				
1	CABLE ASSEMBLY	A27063-124				
1	CABLE ASSEMBLY	A27063-125				
1	CABLE ASSEMBLY	A27063-126				
1	STORAGE BOX					



CABLE ASSEMBLY USAGE TABLE				
POSITION SENSOR AND MAINTENANCE MANUAL CHAPTER REFERENCE	AIRPLANE EQUIPMENT	PART NUMBER (REF)	CABLE ASSEMBLY NUMBER	
	NUMBER		OPTION I	OPTION II
INBOARD AILERON POSITION TRANSMITTER, LEFT, 27-18	M470			
INBOARD AILERON POSITION TRANSMITTER, RIGHT, 27-18	M486			
OUTBOARD AILERON POSITION TRANSMITTER, LEFT, 27-18	M471	60B40042-3, -7	10	10 10
OUTBOARD AILERON POSITION TRANSMITTER, RIGHT, 27-18	M487	S250N104-1, -4, -6	-19	-18,-19
ELEVATOR POSITION TRANSMITTER, LEFT, 27-31	M517			
ELEVATOR POSITION TRANSMITTER, RIGHT, 27-38	M518			
LATERAL CENTRAL CONTROL ACTUATOR, LEFT, 27-11, 22-12	M274		-41	-40, -41
LATERAL CENTRAL CONTROL ACTUATOR, CENTER, 27-11, 22-12	M275	S252N105-2,-4, -5, -6, -7, - 9, -11		
LATERAL CENTRAL CONTROL ACTUATOR, RIGHT, 27-11, 22-12	M276			
POWER LEVER ANGLE TRANSDUCER, 22-33	TS166	60B90034-2, -3	-31	-30, -31
RUDDER POSITION TRANSMITTER, 27-28	M516	60B40042-3, -7 S250N104-1, -4, -6	-19	-18, -19
INBOARD SLAT PDU POSITION TRANSMITTER, 1, 27-81	M483			
INBOARD SLAT PDU POSITION TRANSMITTER, 2, 27-81	M549	S256T002-1, -3	-29	-28, -29
OUTBOARD SLAT PDU POSITION TRANSMITTER, 1, 27-81	M544			
OUTBOARD SLAT PDU POSITION	14540	S256T002-1, -3	-29	-28, -29
TRANSMITTER, 2, 27-81	M548	S256T002-11	-93	-92, -93
CAPT CONTROL COLUMN POSITION	T0050	253T4015-4	-77	-76, -77
TRANSDUCER, 27-31, 31-31	TS353	S250N104-6	-19	-18, -19
CAPT CONTROL WHEEL POSITION	T0054	253T4015-2, -5	-125	-124, -125
TRANSDUCER, 27-11, 31-31 TS354		S250N104-6	-19	-18, -19



CABLE ASSEMBLY USAGE TABLE					
POSITION SENSOR AND MAINTENANCE		AIRPLANE EQUIPMENT	PART NUMBER (REF)	CABLE ASSEMBLY NUMBER	
MANUAL CHAPTER REFE	RENCE	NUMBER		OPTION I	OPTION II
CAPT CONTROL RUDDER PER		TOOLE	253T4015-6	-126	-84, -126
POSITION TRANSDUCER, 27-2	1, 31-31	TS355	S250N104-3, -6	-19	-18, -19
CAPT CONTROL WHEEL SPOI TRANSDUCER, 27-61	LER	TS5081	S251N119-3, -31	-21	-20, -21
RUDDER RATIO CHANGER TRANSDUCER, 27-21		TS194	S251T362-2, -3	-27	-26, -27
F/O CONTROL WHEEL SPOILE TRANSDUCER, 27-61	ER .	TS5082	S251N119-3, -31	-21	-20, -21
		A F0407		-21	-20, -21
SPOILER/SPEEDBRAKE	TODE	AE0107		-33	-32, -33
TRANSDUCER, 1, 27-61	TS35	AE0113		-21	-20, -21
				-33	-32, -33
		AE0107	S253T404-2,-4,-5	-23	-22, -23
SPOILER/SPEEDBRAKE	TS36			-35	-34, -35
TRANSDUCER, 2, 27-61		AE0113		-21	-20, -21
				-33	-32, -33
		AE0107		-25	-24, -25
SPOILER/SPEEDBRAKE	T007			-37	-36, -37
TRANSDUCER, 3, 27-61	TS37			-21	-20, -21
		AE0113		-33	-32, -33
THROTTLE LEVER ANGLE (TL	A)	TS170 RIGHT ENG	S331T001-5	77	76 77
RESOLVER PW, GE NON-FADEĆ, 73-21		TS171 LEFT ENG	253T7122-3, -4, -5, -6	-77	-76,-77
			S331T002-1, -4, -10	-21	-20, -21
THROTTLE LEVER ANGLE (TLA) RESOLVER PW, GE, RR DUAL CHANNEL, FULL AUTHORITY (FADEC,EPCS), 73-21		TS170, TS171 CH A	S331T002-7, -13	-25	-24, -25
		OHA	S254N101-4	-35	-34, -35
		TS170 TS171	S331T002-1, -4, -10	-23	-22, -23
		6	S331T002-7, -13	-116	-115, -116
		CH B	S254N101-4	-114	-113, -114



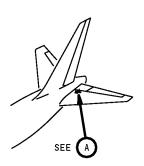
CABLE ASSEMBLY USAGE TABLE					
POSITION SENSOR AND MAINTENANCE	AIRPLANE EQUIPMENT	PART NUMBER (REF)	CABLE ASSEMBLY NUMBER		
MANUAL CHAPTER REFERENCE	NUMBER	,	OPTION I	OPTION II	
THROTTLE LEVER ANGLE (TLA)	M1440 LEFT ENG				
INTERLOCK ACTUATOR, 73-21-16	M1441 RIGHT ENG	S253T402-3	-107	_	

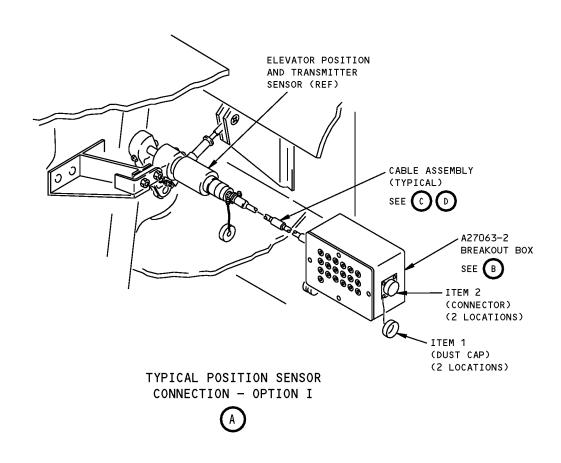
WEIGHT: 15 lbs (6.8 kg)

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

NOTE: A27063-91 replaces A27063-71 for future procurement.

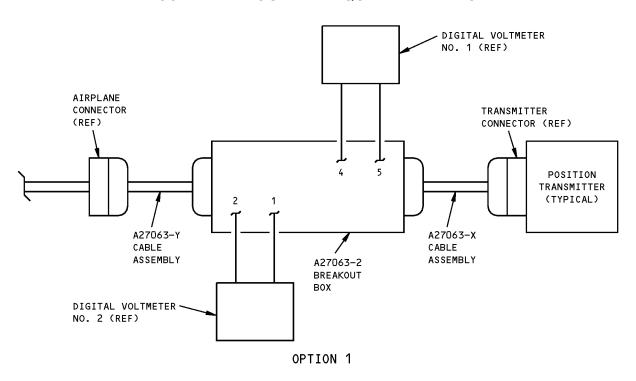


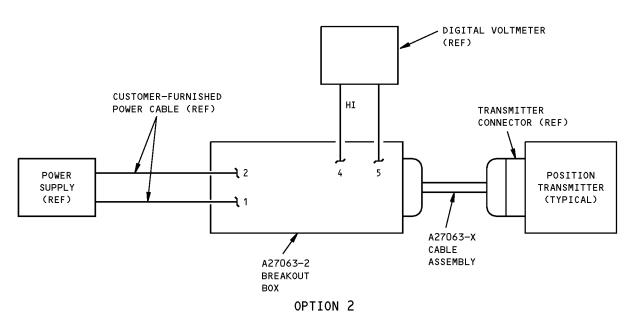




Typical Flight Controls Rigging Position Sensor Connections Figure 1 (Sheet 1 of 2)

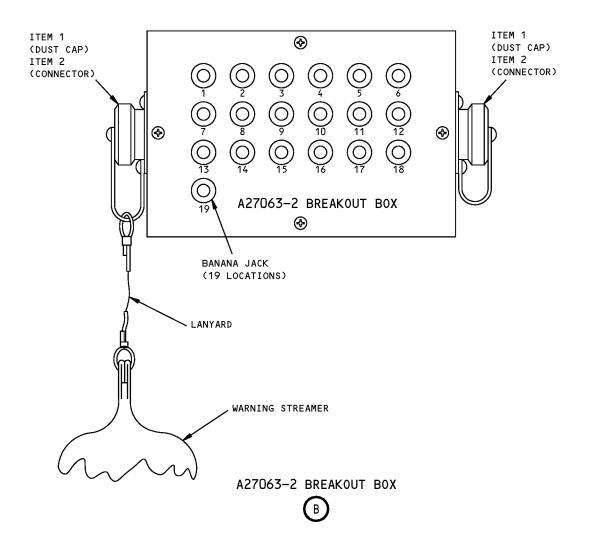






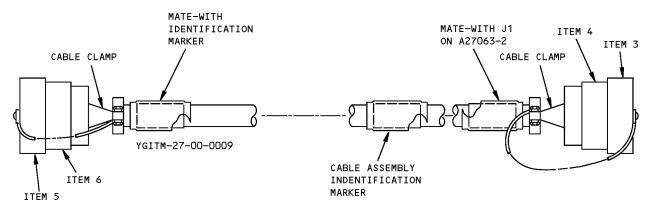
Typical Flight Controls Rigging Position Sensor Connections Figure 1 (Sheet 2 of 2)





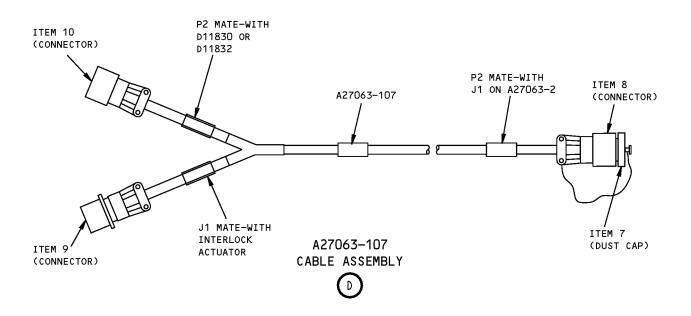
Flight Controls Rigging Position Sensors Breakout Box - A27063-2 Figure 2





A27063-18 THRU -37,-40,-41,-76,-77,-92 THRU -97,-113 THRU -116,-124 THRU -126 CABLE ASSEMBLIES





Flight Controls Rigging Position Sensors Breakout Box Cable Assemblies Figure 3



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

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

A27063-19 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS						
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE			
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP				
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR				
5	MS27293-1 (OPT M83723/59-210AC)	DUST CAP				
6	MS24264R10B5SN (OPT M83723/72R10SN)	CONNECTOR				

A27063-20 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE		
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP			
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR			
5	MS27293-2 (OPT M83723/59-212AC)	DUST CAP			
6	MS24264R12B12PN (OPT M83723/76R1212N)	CONNECTOR			

A27063-21 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE		
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP			



A27063-21 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5	MS27295-2 (OPT M83723/60-212AC)	DUST CAP	
6	MS24264R12B12SN (OPT M83723/71R1212N)	CONNECTOR	

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

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

A27063-24 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5	MS27293-2 (OPT M83723/59-212AC)	DUST CAP	
6	MS24266R12B12P7 (OPT M83723/76R12127)	CONNECTOR	



A27063-25 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5	MS27295-2 (OPT M83723/60-212AC)	DUST CAP	
6	MS24264R12B12S7 (OPT M83723/71R12127)	CONNECTOR	

A27063-26 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5	MS27295-3 (OPT M83723/59-114AC)	DUST CAP	
6	MS24266R14T7PN (OPT M83723/87R147N)	CONNECTOR	

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

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



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

A27063-30 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5	MS27294-3 (OPT M83723/60-114AC)	DUST CAP	
6	MS24264R14T7P6 (OPT M83723/83R1476)	CONNECTOR	

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

A27063-32 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5	MS27293-3 (OPT M83723/59-214AC)	DUST CAP	
6	MS24266R14T7S6 (OPT M83723/86R1476)	CONNECTOR	



A27063-33 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	TEM NO. PART NUMBER NOMENCLATURE			
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP		
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR		
5	MS27295-3 (OPT M83723/60-214AC)	DUST CAP		
6	MS24266R14B15SN (OPT M83723/71R1415N)	CONNECTOR		

A27063-34 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	ITEM NO. PART NUMBER NOMENCLATURE			
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP		
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR		
5	MS27293-3 (OPT M83723/59-214AC)	DUST CAP		
6	MS24266R14B15P6 (OPT M83723/76R14156)	CONNECTOR		

A27063-35 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	ITEM NO. PART NUMBER NOMENCLATURE			
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP		
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR		
5	MS27295-3 (OPT M83723/60-214AC)	DUST CAP		
6	MS24264R14B15S6 (OPT M83723/71R1415)	CONNECTOR		

A27063-36 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5	MS27293-3 (OPT M83723/59-214AC)	DUST CAP	
6	MS24266R14B15P7 (OPT M83723/76R14157)	CONNECTOR	



A27063-37 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	ITEM NO. PART NUMBER NOMENCLATURE		
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5	MS27295-3 (OPT M83723/60-214AC)	DUST CAP	
6	MS24264R14B15S7 (OPT M83723/71R14157)	CONNECTOR	

A27063-40 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPTM83723/86R2219N)	CONNECTOR	
5	MS27294-6 (OPT M83723/60-122AC)	DUST CAP	
6	MS24264R22T19PN (OPT M83723/83R2219N)	CONNECTOR	

A27063-41 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	EM NO. PART NUMBER NOMENCLATURE		
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
6	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	

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



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

A27063-92 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT 83723/86R2219N)	CONNECTOR	
5	MS27294-3 (OPT M83723/60-114AC)	DUST CAP	
6	MS24266R14T7P7 (OPT M83723/83R1477)	CONNECTOR	

A27063-93 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	ITEM NO. PART NUMBER NOMENCLATURE			
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP		
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR		
5	MS27292-3 (OPT M83723/59-114AC)	DUST CAP		
6	MS24266R14T7S7 (OPT M83723/83R1477)	CONNECTOR		

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



A27063-95 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO. PART NUMBER NOMENCLATURE VEND COD			
3	MS27292-6 (OPT M83723/59-122AC)	DUST CAP	
4	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR	
5 MS27295-2 (OPT M83723/60-212AC) DUST CAP		DUST CAP	
6	MS24266R12B12SN (OPT M83723/71R1212N)	CONNECTOR	

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

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

	A27063-107 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE	
7	MS27292-6 (OPT M83723/59-122AC)	DUST CAP		
8	MS24266R22T19SN (OPT M83723/86R2219N)	CONNECTOR		
9	MS24264R12B12SN (OPT M83723/71R1212N)	CONNECTOR		
10	MS24266R12B12PN (OPT M83723/76R1212N)	CONNECTOR		



	A27063-113 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	ITEM NO. PART NUMBER NOMENCLATURE COD			
3	MS27292-6 (OPT M83723/59-122AR)	DUST CAP		
4	MS24266R22T19SN (OPT M83723/86A2219N)	CONNECTOR		
5	MS27293-3 (OPT M83723/59-214AC)	DUST CAP		
6	MS24266R14B15P8 (OPT M83723/76A14158)	CONNECTOR		

	A27063-114 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS				
ITEM NO. PART NUMBER NOMENCLATURE COL					
3	MS27292-6 (OPT M83723/59-122AR)	DUST CAP			
4	MS24266R22T19SN (OPT M83723/86A2219N)	CONNECTOR			
5	MS27295-3 (OPT M83723/60-214AR)	DUST CAP			
6	MS24264R12B15S8 (OPT M83723/71A14158)	CONNECTOR			

A27063-115 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	ITEM NO. PART NUMBER NOMENCLATURE VENDO CODE			
3	MS27292-6 (OPT M83723/59-122AR)	DUST CAP		
4	MS24266R22T19SN (OPT M83723/86A2219N)	CONNECTOR		
5 MS27293-2 (OPT M83723/59-212AR) DUST CAP		DUST CAP		
6	MS24266R12B12P9 (OPT M83723/76A12129)	CONNECTOR		

	A27063-116 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NUMBER	NOMENCLATURE	VENDOR CODE		
3	MS27292-6 (OPT M83723/59-122AR)	DUST CAP			
4	MS24266R22T19SN (OPT M83723/86A2219N)	CONNECTOR			
5	MS27295-2 (OPT M83723/60-212AR)	DUST CAP			
6	MS24266R12B12P9 (OPT M83723/76A12129)	CONNECTOR			



A27063-124 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	ITEM NO. PART NUMBER NOMENCLATURE CODE			
3	MS27293-1 (OPT M83723/59-210AR)	DUST CAP		
4	MS24266R10B5P6 (OPT M83723/76A1056)	CONNECTOR		
5 MS27292-6 (OPT M83723/59-122AR) DUST		DUST CAP		
6	MS24266R22T19SN (OPT M83723/86A2219N)	CONNECTOR		

	A27063-125 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	ITEM NO. PART NUMBER NOMENCLATURE CODE			
3	MS27295-1 (OPT M83723/60-210AR)	DUST CAP		
4	MS24264R10B5S6 (OPT M83723/71A1056)	CONNECTOR		
5	MS27292-6 (OPT M83723/59-122AR)	DUST CAP		
6	MS24266R22T19SN (OPT M83723/86A2219N)	CONNECTOR		

	A27063-126 CABLE ASSEMBLY REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	ITEM NO. PART NUMBER NOMENCLATURE VENDOR CODE				
3	MS27295-1 (OPT M83723/60-210AR)	DUST CAP			
4	MS24264R10B5S7 (OPT M83723/71A1057)	CONNECTOR			
5	5 MS27292-6 (OPT M83723/59-122AR)				
6	MS24266R22T19SN (OPT M83723/86A2219N)	CONNECTOR			



PART NUMBER: B27018-19

NAME: BREAKOUT BOX - FSEU/CSEU POWER SUPPLY

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 767 ITEM is for information

and historical purposes only.

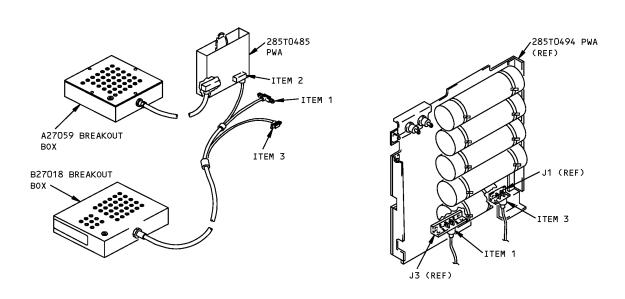
This tool with breakout box A27059 is used to test the control system electronics unit chopper/regulator/filter printed wiring assembly 285T0485. In addition, breakout box B27018 is used to test the power supply filter printed wiring assembly 285T0494. Breakout box B27018 consists of a 34 pin

breakout box and three connector cable assembly.

WEIGHT: 4 lbs (1.8 kg)

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

NOTE: B27018-19 supersedes B27018-1.



USAGE I USAGE II

FSEU/CSEU Power Supply Breakout Box Figure 1



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: A27044-53

NAME: TEST BOX - CONVERTER, 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 767 ITEM is for information

and historical purposes only.

This test box is used to perform funtional test and troubleshooting procedures on the Control System Electronics Unit (CSEU) power supply filter, chopper/regulator/filter and converter assemblies. This tool is used on 767-200 and -300 airplanes equipped with the 285T0017-1xx series CSEU, but not the 285T0017-2xx and on series CSEU. The equipment number references are M536, M537, M538 and M539. Refer to CMM 27-09-56 and CMM 27-09-57

for further usage instructions.

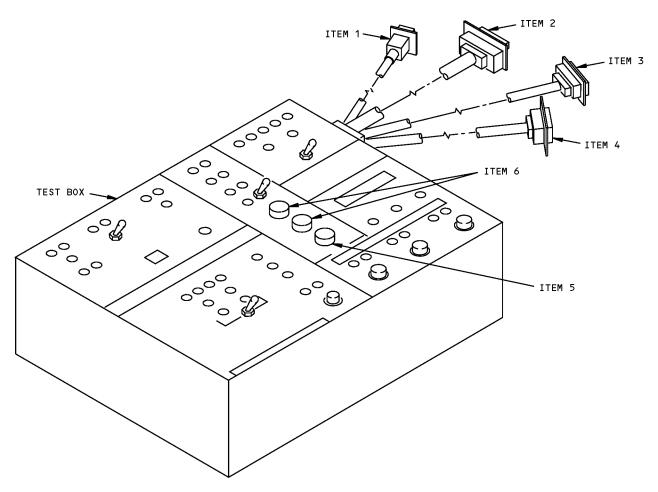
WEIGHT: 15 lbs (6.8 kg)

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

NOTE: A27044-53 supersedes A27044-44.

A27044-44 supersedes A27044-38. A27044-38 supersedes A27044-33, -35.

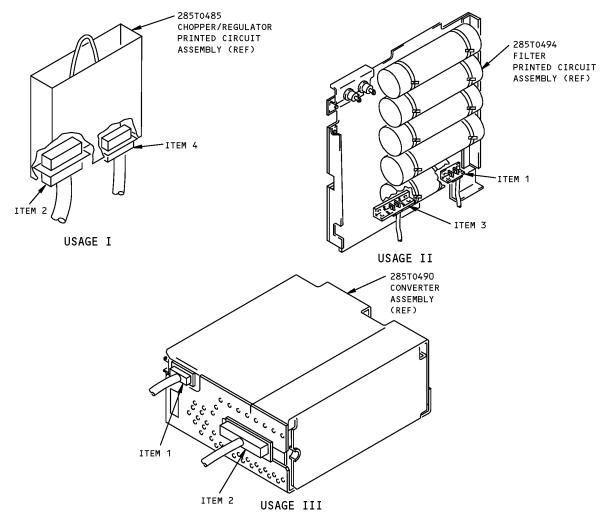




Control System Electronics Unit Power Supply Converter Test Box Figure 1 (Sheet 1 of 2)

27-00-11





Control System Electronics Unit 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	0.2A FUSE	V75915
6	312003	3A FUSE	V75915

PART NUMBER: A27081-1, -2

NAME: READOUT AND CONTROL EQUIPMENT - FUNCTIONAL TEST STANDS

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27081-1 and -2 readout and control equipment are used on all 767

airplanes. The A27081 is used to functionally test the elevator feel and centering unit, trailing edge flaps rotary actuator, trailing edge flaps power drive unit, inboard and outboard leading edge slats power drive unit, the overhead passenger door counterbalance gearbox assembly. This tool is used in conjunction with A27041, A27063, A27071, A27079, and A52017. For elevator feel and centering unit, refer to CMM 27-31-09. For trailing edge flaps rotary actuator, refer to CMM 27-51-08, CMM 27-51-10, CMM 27-51-48 and CMM 27-51-49. For trailing edge flaps PDU, refer to CMM 27-51-14. For inboard leading edge slats PDU, refer to CMM 27-81-81. For outboard leading edge slats PDU, refer to CMM 27-81-82 and CMM 27-81-83. For overhead passenger door counterbalance gearbox assembly, refer to CMM 52-11-71 for further usage instructions. Refer to current A27081 drawing for additional usage instructions. The -1 consists of a -3 test box assembly, four cable assemblies and a -11 storage box assembly. The -2 consists of a -4 test box

assembly and a -12 storage box assembly.

CABLE MATE - WITH AND USAGE TABLE			
CONNECTOR REF DESIG MATE WITH INFORMATION			
N 400-700 (00 P) 40 FN I	P1	M/W J1 ON A27081-3	
M83723/83R105N	P3	M/W J1 ON A27081-3	
	P5	M/W J2 ON A27081-3	
M83723/86R1212N	P7	M/W J2 ON A27081-3	
M83723/86R1610N	P2	M/W CONTROL VALVE MODULE	
M83723/86R188N	P1	M/W ALTERNATE DRIVE MOTOR MODULE	
MS3106A14S5S	P2	M/W 0600-0000 ANGULAR DISPLACEMENT XDCR	
MS3106A10SL-4S P4 M/W MCRT9-02T TORQUE METER SPEED PICKUP		M/W MCRT9-02T TORQUE METER SPEED PICKUP	
MS3106A14S-5S	P6	M/W 2110 TORQUE SENSOR	
MS3106A14S-6S	P8	M/W MCRT9-02T TORQUE METER	

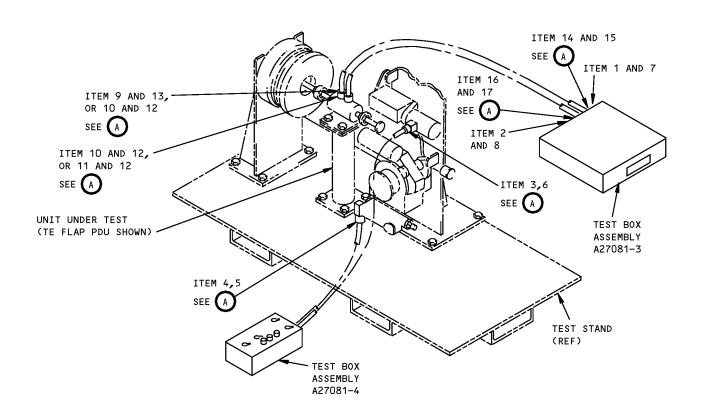
WEIGHT: A27081-1 - 10 lbs (4.5 kg)

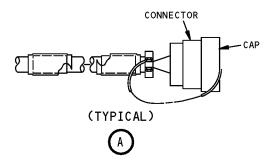
A27081-2 - 7 lbs (3.2 kg)

DIMENSIONS: A27081-1 - 5 x 15 x 15 inches (127 x 381 x 381 mm)

A27081-2 - 5 x 9 x 15 inches (127 x 229 x 381 mm)







Functional Test Stands Readout and Control Equipment Figure 1

27-00-12



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	M83723/83R105N	CONNECTOR (J1)(OPT: MS24264R10T5PN)	
2	M83723/83R1212N	CONNECTOR (J2)(OPT: MS24264R12T12)	
3	M83723/86R188N	CONNECTOR (P1)(OPT: MS2466R18T8SN)	
4	M83723/86R1610N	CONNECTOR (P2)(OPT: MS24266R16T10SN)	
5	M83723/59-116AC	CAP (OPT: MS27292-4)	
6	M83723/59-118AC	CAP (OPT: MS27292-5)	
7	M83723/60-110AC	CAP (OPT: MS27292-1)	
8	M83723/60-112AC	CAP (OPT: MS27294-2)	
9	MS3106A10SL-4S	CONNECTOR	
10	MS3106A14S-5S	CONNECTOR	
11	MS3106A14S-6S	CONNECTOR	
12	MS25042-14D	CAP	
13	MS25042-10D	CAP	
14	M8372/86R105N	CONNECTOR (OPT: MS24266R10T5SN)	
15	M83723/59-110AC	CAP (OPT: MS27292-1)	
16	M83723/86R1212N	CONNECTOR (OPT: MS24266R12T12SN)	
17	M83723/59-112AC	CAP (OPT: MS27292-2)	

PART NUMBER: A27085-1

NAME: TEST BOX - ANALOG PRINTED CIRCUIT, RUDDER RATIO

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27085 drawing has been transferred to BAE Systems and will no longer

be revised by Boeing. The A27085 inclusion in the 767 ITEM is for information

and historical purposes only.

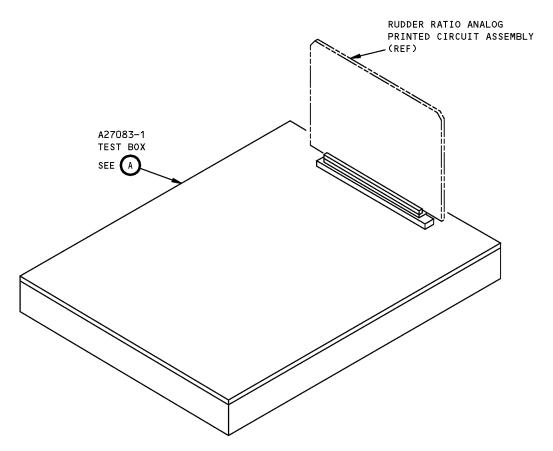
The A27083-1 test box is used on 767-200/-300 airplanes equipped with the rudder ratio changer module M528 (285T0014), typically prior to line number 868. The A27083-1 is a breakout box used to test the rudder ratio analog printed circuit assembly (PCA). Refer to CMM 27-21-34 for complete usage

instructions.

WEIGHT: 10 lbs (4.5 kg)

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

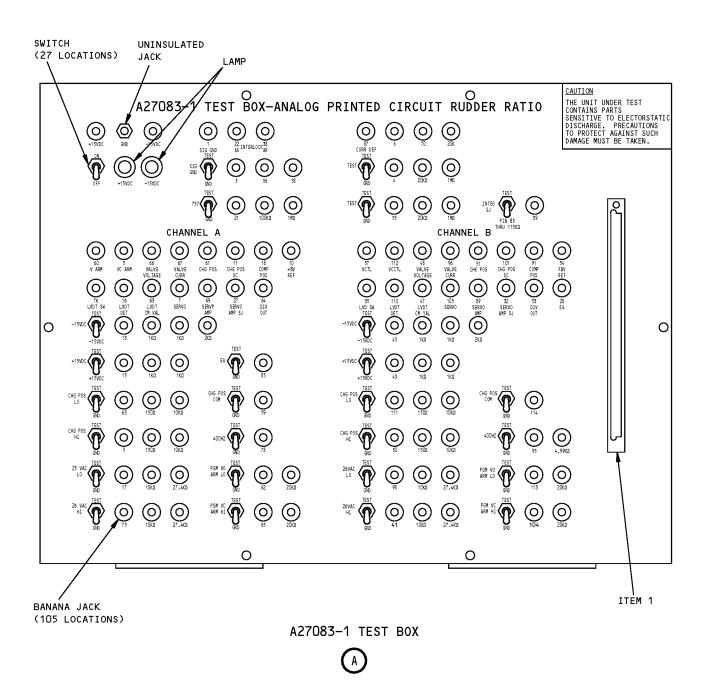




Rudder Ratio Analog Printed Circuit Test Box Figure 1

27-00-13





Rudder Ratio Analog Printed Circuit Test Box - A27083-1 Figure 2

27-00-13

Page 3 Apr 10/2006



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



PART NUMBER: A27100-1

NAME: TEST BOX - STICK NUDGER

AIRPLANE MAINTENANCE: YES

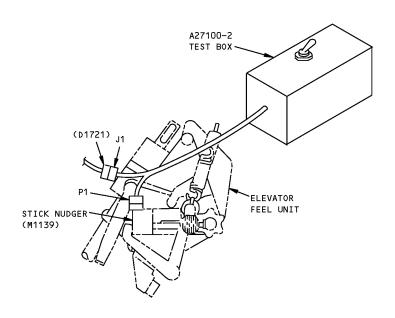
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: Use to extend/retract the stick nudger actuator during stall warning system

test. The test box consists of a -2 test box assembly in a -3 box assembly.

WEIGHT: 10 lbs (4.5 kg) (excluding box)

DIMENSIONS: 16 x 16 x 4 inches (406 x 406 x 102 mm) (excluding box)



Stick Nudger Test Box Figure 1

	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	M83723/83R147N	RECEPTACLE		
2	M83723/86R147N	PLUG		



PART NUMBER: 2ME65B00002

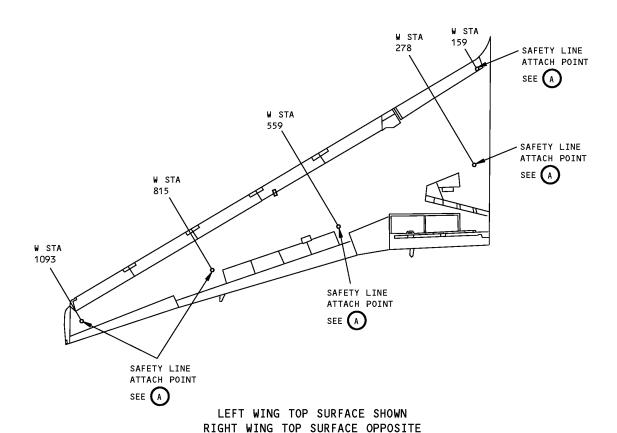
NAME: WRENCH - SPANNER, SAFETY LANYARD, TIEDOWN LOCKS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The 2ME65B00002 tool is used to remove/install and adjust safety lanyard

tiedown lock receptacles flush with 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 tiedown receptacle.

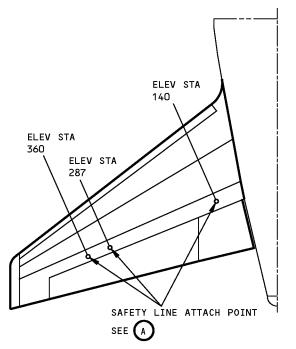


Wing Safety Line Attach Point Locations Figure 1

27-00-15



767 **ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

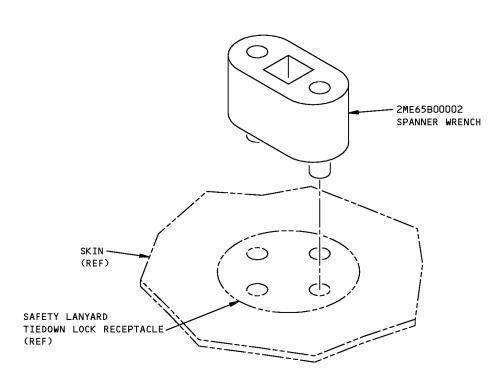


HORIZONTAL STABILIZER TOP LEFT SURFACE SHOWN TOP RIGHT SURFACE OPPOSITE



SAFETY LINE ATTACH POINT





Safety Lanyard Tiedown Lock Spanner Wrench Figure 2

27-00-15 Page 2 Apr 10/2007

Page 2



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 767 ITEM is for information

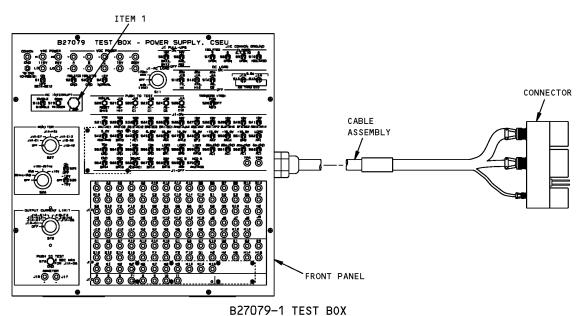
and historical purposes only.

This test equipment is used to bench test the 285T0017-201 and -201 MOD A, control system electronics unit (CSEU) power supply assembly, per CMM 27-09-58. Applicability is limited to airplanes equipped with the 285T0017-201 or -

201 MOD A CSEU's.

WEIGHT: 10 lbs (4.5 kg)

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



B27079-1 1E31 B0X

CSEU Power Supply Test Box - B27079-19 Figure 1



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

PART NUMBER: A27125-1

NAME: MEASUREMENT TOOL - RUDDER AND ELEVATOR POWER CONTROL

ACTUATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27125 -1 measurement tool is used to measure the freeplay of the

elevator and rudder power control actuators.

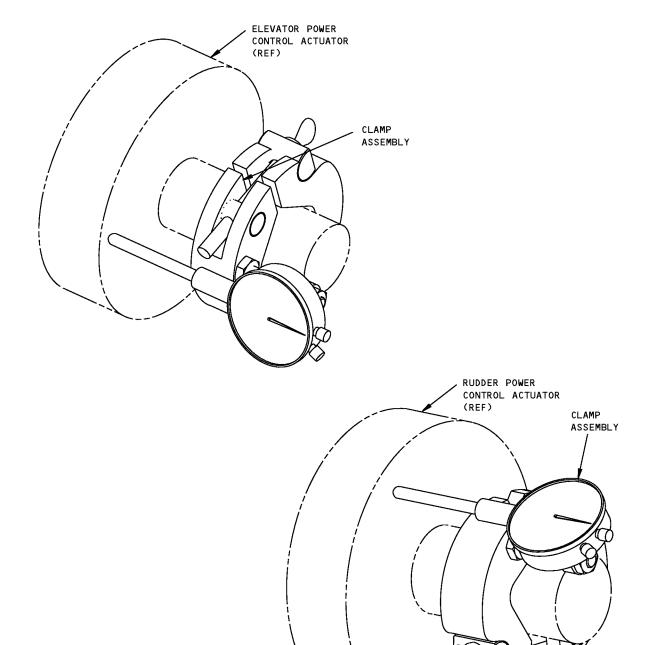
The A27125-1 is clamped onto the power control actuator rod and provides a mounting point for a dial indicator. Install the dial indicator on the clamp assembly in hole "A" for the elevator power control actuator and hole "B" for the rudder power control actuator. Hole "A" and "B" markings on the clamp assembly are steel stamped, etched or engraved at hole locations. For

complete usage instructions see AMM 27-02-00.

WEIGHT: 3 lbs (1.4 kg)

DIMENSIONS: 3 x 4 x 6 inches (76 x 102 x 152 mm)





1552676 S0000284803_V1

Rudder and Elevator Power Control Actuator Measurement Tool Figure 1

27-00-17 Page 2 Apr 10/2008

PART NUMBER: A27005-1

NAME: LOCK - OUTBOARD AILERON

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27005-1 lock is used on all 767 airplanes. A27005 is used to lock the

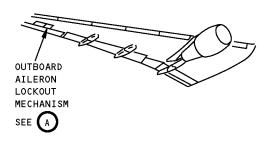
outboard aileron in the up position during maintenance of the outboard actuator power control actuator (PCA) reaction link removal/installation and PCA filter removal/installation. Refer to AMM 27-11-49 for complete usage instructions. The A27005-1 lock is a clamp-like assembly without a storage

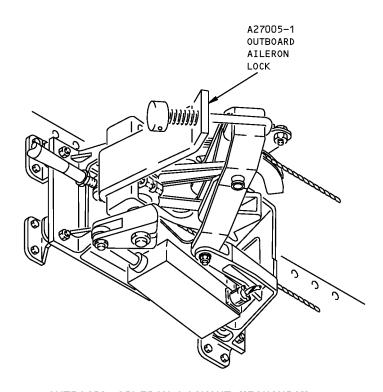
box.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 2 x 3 x 5 inches (51 x 76 x 127 mm)







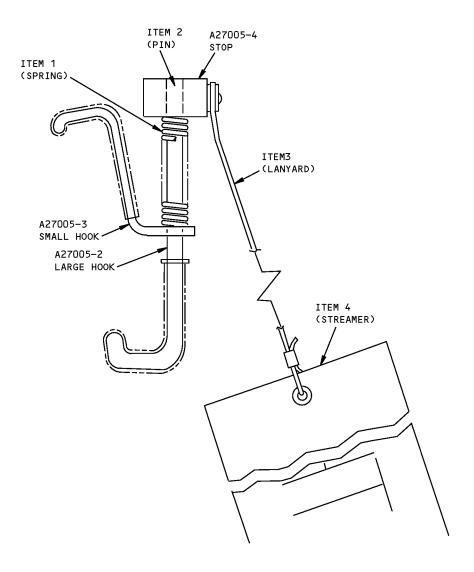
OUTBOARD AILERON LOCKOUT MECHANISM



Outboard Aileron Lock Figure 1 (Sheet 1 of 2)

27-10-01





Outboard Aileron Lock Figure 1 (Sheet 2 of 2)

27-10-01



REPAIRABLE/REPLACEABLE PARTS						
ITEM NO.	ITEM NO. PART NO. NOMENCLATURE VENDOR CODE					
1	A27005-5	SPRING				
2	MS16562-218	TUBULAR SPRING PIN				
3	CL-22-KA-10.0L	LANYARD	V99862			
4	NAS1756-24	WARNING STREAMER				

PART NUMBER: A27013-1

NAME: **DEACTIVATION EQUIPMENT - INBOARD AILERON**

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

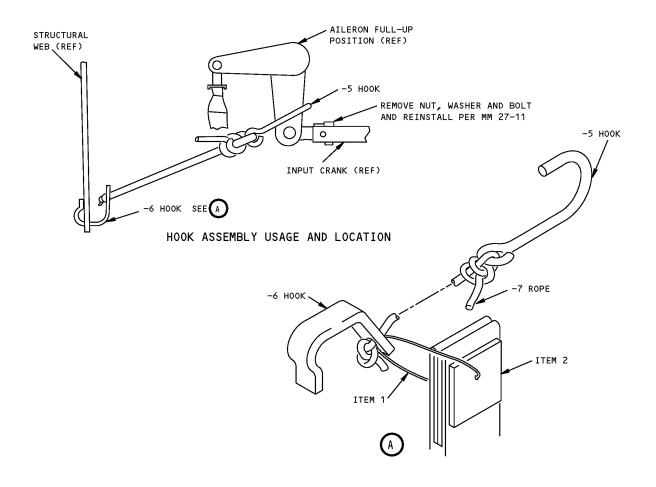
This tool consists of a hook assembly to prevent accidental actuator valve **USAGE & DESCRIPTION:**

opening during inboard aileron maintenance.

WEIGHT: 1 lb (0.45 kg)

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





Inboard Aileron Deactivation Equipment Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-21-KA-04.0LR	LANYARD	V99862
2	NAS1756-24	WARNING STREAMER	

PART NUMBER: 4MIT65B80307-1

NAME: PROTRACTOR ASSEMBLY - CONTROL COLUMN

AIRPLANE MAINTENANCE: YES

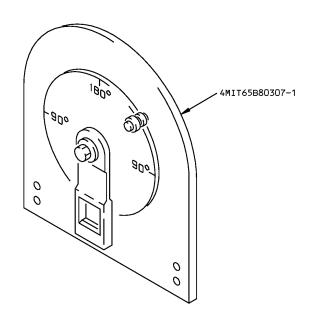
COMPONENT MAINTENANCE: NO

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 identical to the A27021-30 assembly (of 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: A27015-1

NAME: REMOVAL/INSTALLATION SLING EQUPMENT - INBOARD/OUTBOARD

AILERON

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

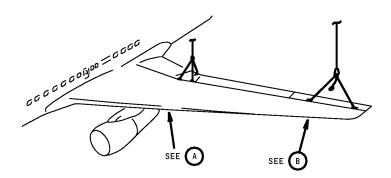
USAGE & DESCRIPTION: This tool is two sling assemblies which are used with an overhead lift device

to remove or install ailerons. The -15 sling assembly is used for the inboard,

and the -16 sling assembly is used for the outboard ailerons.

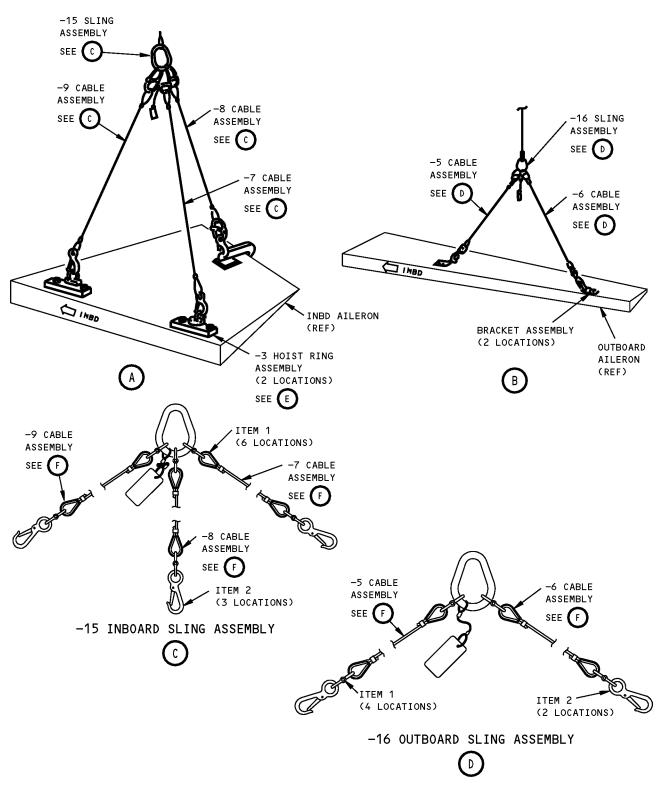
WEIGHT: 12 lbs (5.4 kg)

DIMENSIONS: 8 x 12 x 40 inches (203 x 305 x 1016 mm)



Inboard/Outboard Aileron Removal/Installation Sling Equipment Figure 1 (Sheet 1 of 2)

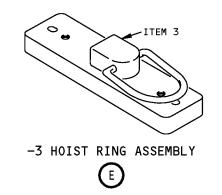


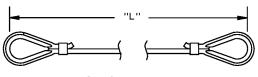


Inboard/Outboard Aileron Removal/Installation Sling Equipment Figure 1 (Sheet 2 of 2)

27-10-04







-5,-6,-7,-8-,9 CABLE ASSEMBLY

CABLE ASSY	"L" ±0.25
-5	60.0
-6	69.9
-7	22.2
-8	42.7
-9	25.0



Inboard/Outboard Aileron Removal/Installation Sling Cable Assemblies Figure 2



	REPAIRABLE/REPLACEABLE PARTS				
ITEM NO. PART NO. NOMENCLATURE VENDOR CODE					
1	A-336-1/4	CONNECTING LINK	V77535		
2	G-3315-9/16	SNAP HOOK	V77535		
3	CL-10-SHR	HOIST RING	V99862		
4	F70308-2	PROOF LOAD TAG			

PART NUMBER: A27020-1

NAME: STRAIGHTEDGE - CONTROL WHEEL

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to align the control wheels in a neutral position during

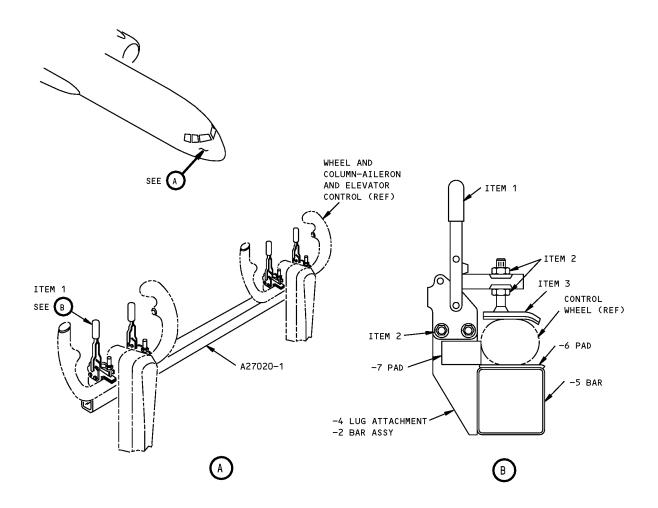
'power on' rigging. The straightedge clamps to the wheels by toggle clamps

(ITEM 1).

WEIGHT: 6 lbs (2.7 kg)

DIMENSIONS: 3 x 6 x 52 inches (76 x 152 x 1321 mm)





Control Wheel Straightedge Figure 1

	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	CL-151-VTC	TOGGLE CLAMP	V99862	
2	MS21044N08	NUT		
3	-3	FOOT ASSEMBLY		

PART NUMBER: A27021-29, -96, -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 are attached 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 A27021-98 adapter equipment is applicable on both 757/767 airplanes. The -96 and -98 adapter equipment have similar components for 767 application. The A27021-81 lock assembly used on A27021-98 adapter equipment is applicable only for 757 airplanes. The A27021-29 protractor kit is used with -96, -98 adapter equipment to measure

the angular movement of the wheels.

WEIGHT: A27021-29 - 5 lbs (2.3 kg)

A27021-96 - 15 lbs (6.8 kg) A27021-98 - 17 lbs (7.7 kg)

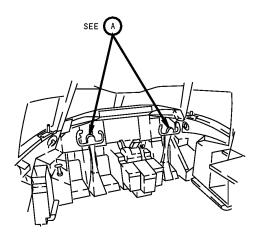
DIMENSIONS: A27021-29 - 4 x 8 x 8 inches (102 x 203 x 203 mm)

A27021-96 - 8 x 14 x 20 inches (203 x 356 x 508 mm) A27021-98 - 8 x 14 x 20 inches (203 x 356 x 508 mm)

NOTE: A27021-96 supersedes A27021-1.

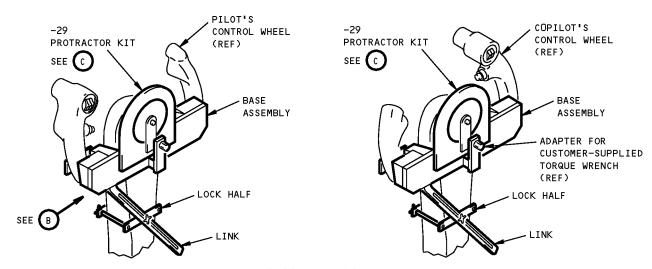
A27021-98 supersedes A27021-83, -64, -55.





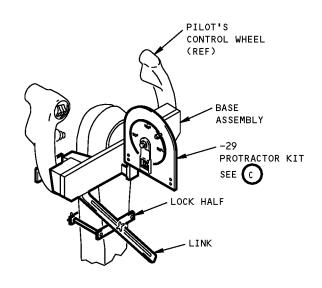
Control Wheel Adapter Equipment Figure 1 (Sheet 1 of 2)



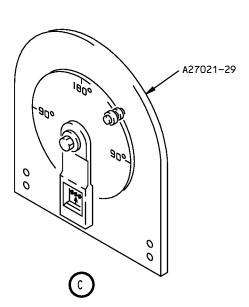


A27021-96,-98 SHOWN (A27021-81 757 USAGE OMITTED)





A27021-96,-98 CONFIGURATION FOR MEASUREMENT OF FORE AND AFT ANGULAR DISPLACEMENT (USAGE ON COPILOT'S CONTROL WHEEL SIMILAR)



Control Wheel Adapter Equipment Figure 1 (Sheet 2 of 2)

27-10-06

PART NUMBER: A27024-29, -31, -47, -55

NAME: RIGGING BAR - AILERON

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to remove, install and adjust the inboard and outboard

ailerons. This tool consists of two major assemblies. The -47, -55 is used to rig the inboard aileron and the -29, -31 is used to rig the outboard aileron when an aileron is replaced. The tool is a beam weldment used to a align the ailerons into a neutral position. Refer to AMM 27-11-00, AMM 27-11-01, AMM 27-11-02, AMM 27-11-48 and AMM 27-11-49 for further usage instructions.

WEIGHT: A27024-29 - 20 lbs (9 kg) (excluding box)

A27024-31 - 11 lbs (5 kg) (excluding box) A27024-47 - 53 lbs (24 kg) (excluding box) A27024-55 - 37 lbs (17 kg) (excluding box)

DIMENSIONS: A27024-29 - 6 x 12 x 102 inches (152 x 305 x 2591 mm) (excluding box)

A27024-31 - 6 x 14 x 97 inches (152 x 356 x 2464 mm) (excluding box) A27024-47 - 6 x 20 x 195 inches (152 x 508 x 4953 mm) (excluding box) A27024-55 - 6 x 15 x 195 inches (152 x 381 x 4853 mm) (excluding box)

NOTE: A27024-55 replaces A27024-47 for future procurement.

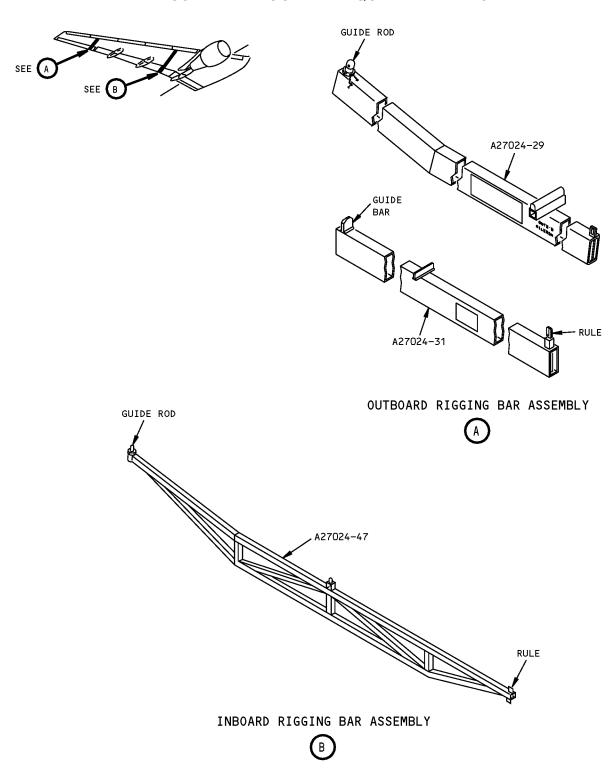
A27024-47 supersedes A27024-2.

A27024-31 replaces A27024-29 for future procurement.

A27024-29 supersedes A27024-1.



767 ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Aileron Rigging Bar Figure 1

PART NUMBER: A27029-28

NAME: REMOVAL/INSTALLATION FIXTURE - LOAD LIMITER AILERON CONTROL

SPRING

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to remove/install the heavily loaded spring on the aileron

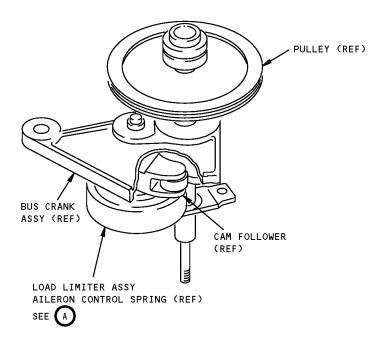
control load limiter drum assembly. The bus crank assembly is clamped in place while the spring is rotated to lock on the guide pin. As the spiral spring expands for removal, the tension is absorbed in the arm assembly (Ref CMM

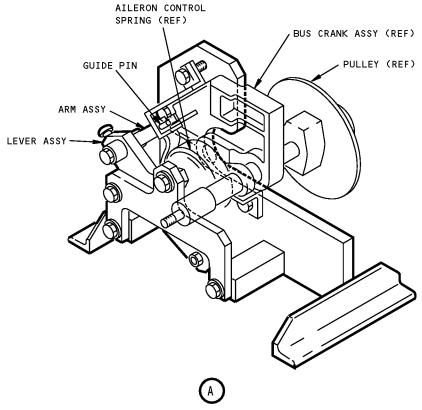
27-11-08).

WEIGHT: 28 lbs (12.7 kg)

DIMENSIONS: 9 x 14 x 17 inches (229 x 356 x 432 mm)







Load Limiter Aileron Control Spring Removal/Installation Fixture Figure 1



PART NUMBER: A27028-11

NAME: CHECK FIXTURE - AILERON CONTROL LOAD LIMITER SPRING

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

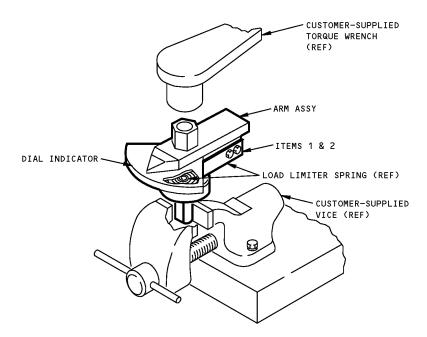
USAGE & DESCRIPTION: This tool is used to check the load deflection characteristics of the aileron

control load limiter spring.

WEIGHT: 4 lbs (1.8 kg)

DIMENSIONS: 7 x 9 x 11 inches (178 x 229 x 279 mm)

NOTE: A27028-11 supersedes A27028-1.



Aileron Control Load Limiter Spring Check Fixture Figure 1

	REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE		
1	MS21044N3	NUT			
2	AN3-12A	BOLT			



PART NUMBER: A27037-1

NAME: TEST EQUIPMENT - OUTBOARD AILERON LOCKOUT MECHANISM

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

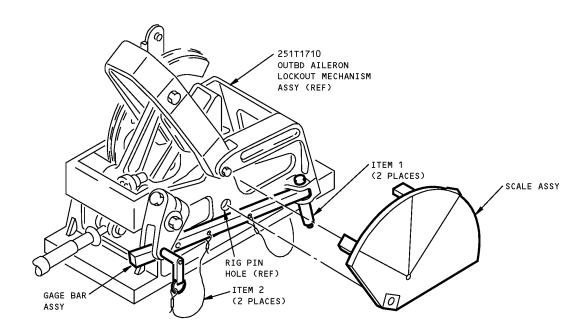
USAGE & DESCRIPTION: This tool is used to check the rotational movement of the quadrant during

assembly of the outboard aileron lockout mechanism. The tool consists of a

gage bar with ball lockpins and a scale (Ref CMM 27-11-11).

WEIGHT: 3 lbs (1.4 kg)

DIMENSIONS: 1 x 9 x 15 inches (25 x 229 x 381 mm)



Outboard Aileron Lockout Mechanism Test Equipment Figure 1

REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	ITEM NO. PART NO. NOMENCLATURE VENDOR CODE			
1	NAS1334A5C25D	BALL LOCKPIN		
2	CL-22-KA-10.0LR	LANYARD	V99862	



PART NUMBER: A27088-6, -13

NAME: LINK - DUMMY TRIM ACTUATOR, AILERON

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

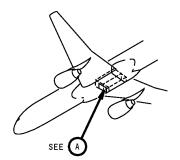
USAGE & DESCRIPTION: This tool is used for dispatching of an airplane with a inoperative aileron trim

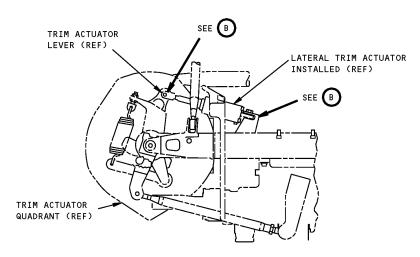
system covered in document D630T002 "Dispatch Deviations Guide". The -13 tool consists of a storage box assembly and a -14 link assembly, which is made up of an $5/8 \times 7$ inch bar that has a clevis machined in one end and a

rod end assembly attached to the other.

WEIGHT: 1 lb (0.45 kg)

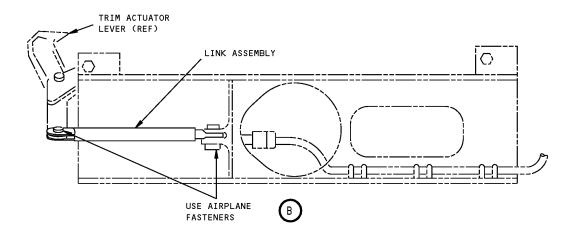
DIMENSIONS: 2 x 2 x 10 inches (51 x 51 x 254 mm)





Aileron Dummy Trim Actuator Link Figure 1 (Sheet 1 of 2)





Aileron Dummy Trim Actuator Link Figure 1 (Sheet 2 of 2)

PART NUMBER: A27106-1

NAME: **BUSHING PULLER - OUTBOARD AILERON ACTUATOR**

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to remove outboard aileron reaction link bushing. Refer to

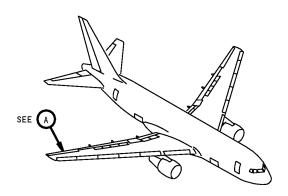
Maintenance Manual 27-11-49 for complete usage instructions. This tool

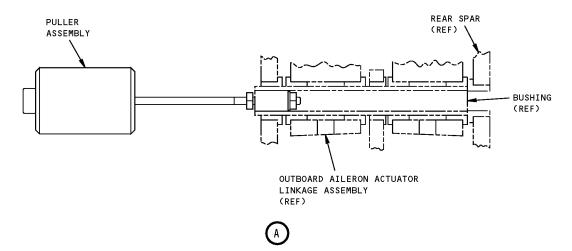
consist of a -2 puller assembly and a -3 storage box assembly.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 1.5 x 1.5 x 4.2 inches (38 x 38 x 107 mm)







Outboard Aileron Actuator Bushing Puller Figure 1

PART NUMBER: A27110-1, -20

NAME: MOUNT EQUIPMENT - INBOARD AILERON RIGGING BAR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This equipment is used to hold the inboard aileron rigging bar (A27024) to the

underside of the airplane wing. The -1 is used with A27024-47 inboard rigging bar assembly. The -20 is used with A27024-56 inboard rigging bar assembly. Refer to AMM 27-11-00 for further usage information. The -1 consists of a -2 forward support assembly, a -3 aft support assembly, four forward support screws, four aft support screws, and a -4 storage box assembly. The -20 consists of a -2 forward support assembly, a -21 aft support assembly, four forward support screws, four aft support screws, and a -22 storage box

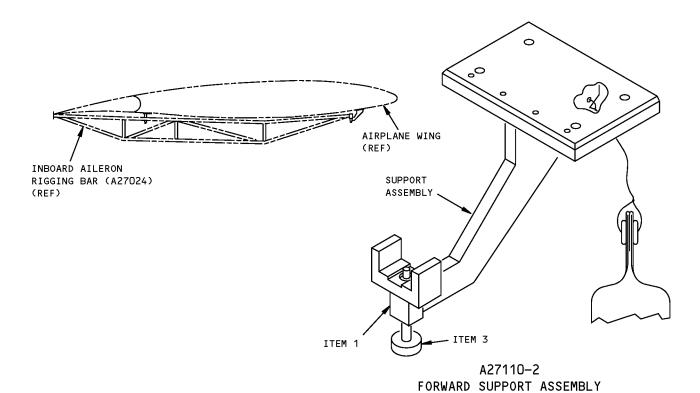
assembly.

WEIGHT: A27110-1 - 6.5 lbs (2.9 kg) (excluding box)

A27110-20 - 7.2 lbs (3.3 kg) (excluding box)

DIMENSIONS: 5.5 x 11.8 x 14.5 inches (140 x 300 x 368 mm) (excluding box)



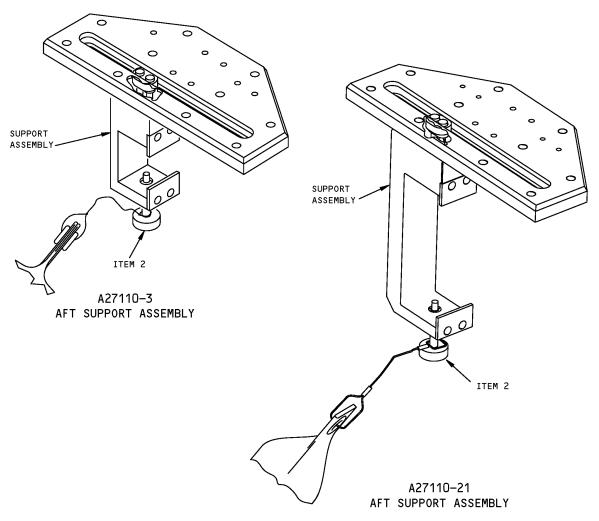


Inboard Aileron Rigging Bar Mount Equipment Figure 1 (Sheet 1 of 2)

27-10-13

Page 2 Apr 10/2006





Inboard Aileron Rigging Bar Mount Equipment Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-5-JN	JAM NUT	V99862
2	CL-6-SHSN	THUMBSCREW	V99862
3	CL-34-SHSN	THUMBSCREW	V99862



PART NUMBER: G27033-2

NAME: ADAPTER CABLE - OUTBOARD AILERON LOCKOUT

AIRPLANE MAINTENANCE: YES

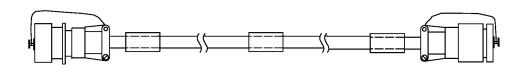
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The tool is used to allow the Outboard Aileron Lockout Actuator to be driven

to the retracted (locked) position. This locks the outboard aileron in the neutral (faired) position. This tool consists of a cable assembly and a storage box assembly. Refer to AMM 27-11-00 for further usage information.

WEIGHT: 5 lbs (2.3 kg)

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



Outboard Aileron Lockout Adapter Cable Figure 1

PART NUMBER: A27115-34, -41

NAME: TEST EQUIPMENT - OUTBOARD AILERON LOCKOUT ACTUATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27115-34 or A27115-41 test equipment is used on 767 airplanes line

numbers 1 through 830 that are equipped with 60B80050-1 through -7

outboard aileron lockout actuators. This tool detects degraded performance of actuator motorcontrol or limit switches in order to prevent a dispatch delay. The test equipment attaches directly to the actuator connector in place of the airplane electrical connector without removing the actuator from the lockout mechanism. Refer to 767 Maintenance Tip MT 27-024, AMM 27-11-16 and current A27115 drawing for complete instructions. The A27115-34 test equipment consists of a -35 test box, a -3 cable assembly and a storage box assembly. The A27115-41 consists of a -42 test box, a -3 cable assembly, and

a storage box assembly.

WEIGHT: 8 lbs (3.6 kg)

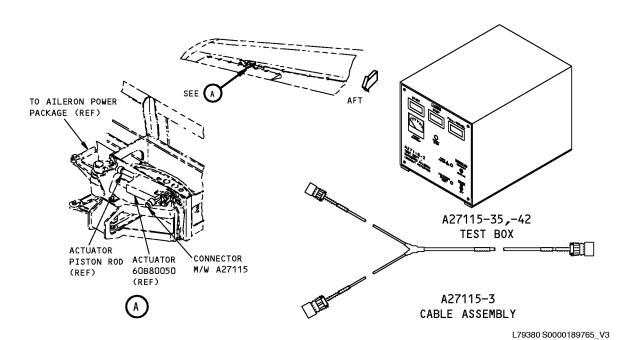
DIMENSIONS: 9 x 9 x 12 inches (229 x 229 x 305 mm)

NOTE: A27115-41 supersedes A27115-36.

A27115-41 replaces A27115-34 for future procurement.

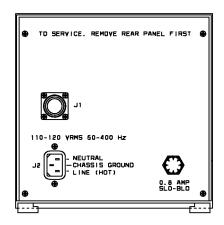
A27115-34 supersedes A27115-26.



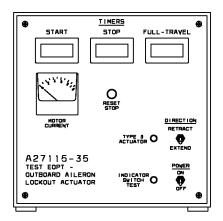


Outboard Aileron Lockout Actuator Test Equipment Figure 1





A27115-35,-42 ASSEMBLY (REAR VIEW)



A27115-35 ASSEMBLY SHOWN A27115-42 ASSEMBLY NOTED

1312640 S0000225434_V2

Test Equipment - Outboard Aileron Lockout Actuator Figure 2

27-10-15

Page 3 Apr 10/2008



PART NUMBER: A27003-23

NAME: LOCK SET - ACTUATOR, RUDDER

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27003-23 lock set is used on all 767 airplanes. A27003 is used to hold

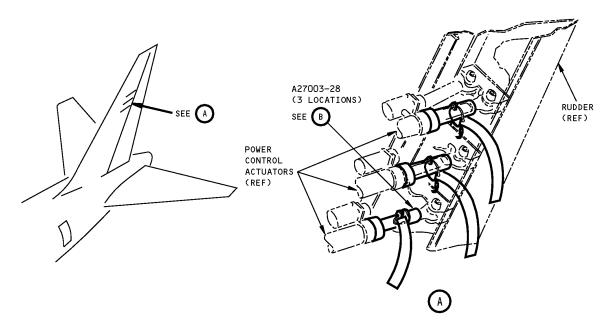
the rudder power control actuator (PCA) nearly in full extension. A27003 locks the PCA during PCA filter removal, when removing a PCA reaction link and during hydraulic leak checks. Refer to AMM 27-21-02 and AMM 29-11-00 for complete usage instructions. The A27003-23 lock set consists of three

A27002-28 lock assemblies contained in a storage box.

WEIGHT: 3 lbs (1.4 kg)

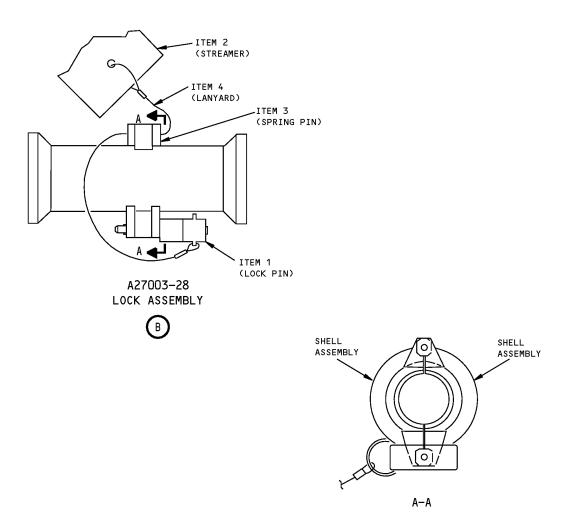
DIMENSIONS: 4 x 8 x 10 inches (102 x203 x 254 mm)

NOTE: A27003-23 supersedes A27003-13, -16 for future procurement.



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





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

	REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE		
1	NAS1334-C2C12D	BALL LOCKPIN			
2	NAS1089-24	STREAMER			
3	MS16562-252	SPRING PIN			
4	CL-21-KA-18LR	LANYARD	V99862		

PART NUMBER: F80212-30

NAME: ADAPTER - RUDDER PEDAL FORCE CHECK

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 - 30 consists of a -31 gauge assembly and a box assembly. The tool is a pogo-stick type arrangement with a handle assembly and an extension assembly. The handle assembly is a tube equipped with a T-shaped handle, an angle measuring device, a compression gage, and a foot brace. The extension assembly is a mating shaft with two plates, 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 gage on the other. A ball lock pin on a lanyard is used to hold the two assemblies to each other when the

tool is not in use.

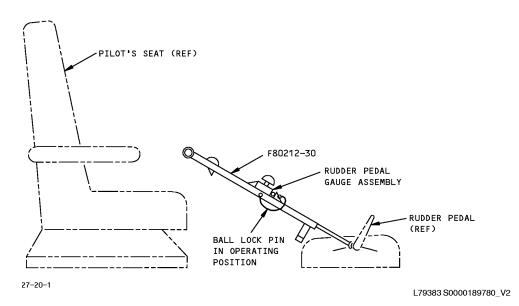
WEIGHT: 8 lbs (3.7 kg) (excluding box)

DIMENSIONS: 7 x 11 x 26 inches (178 x 280 x 661 mm) (excluding box)

NOTE: F80212-30 supersedes F80212-19.

F80212-19 supersedes F80212-1.





Rudder Pedal Force Check Adapter Figure 1

PART NUMBER: A27022-75, -81

NAME: SLING EQUIPMENT - RUDDER INSTALLATION/REMOVAL

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: A27022-75 or -81 sling equipment is used on all 767 airplanes. A27022 is used

to remove or install the airplane's rudder. The A27022 sling equipment is

equipped with rope assemblies (tag lines) that allow for horizontal

positioning of the rudder and sling. The A27022 sling equipment allows the rudder to be rotated from the vertical to the horizontal position during rudder removal. When using A27022-81 sling equipment, a customer-furnished load positioner is required to provide for precise vertical positioning. The A27022-75 sling equipment includes a load positioner with the A27022-76 spreader bar assembly. In both A27022-75 and -81 sling equipment, the spreader bar assembly is not contained in the storage box. Refer to AMM 27-21-01 for complete usage instructions. The A27022 sling equipment consists of:

A27022-75			
QUANTITY	NOMENCLATURE	PART NUMBER	
4	FITTING ASSEMBLY	A27022-3	
2	ROPE ASSEMBLY	A27022-14	
1	SPREADER BAR ASSEMBLY	A27022-76	
1	STORAGE BOX		

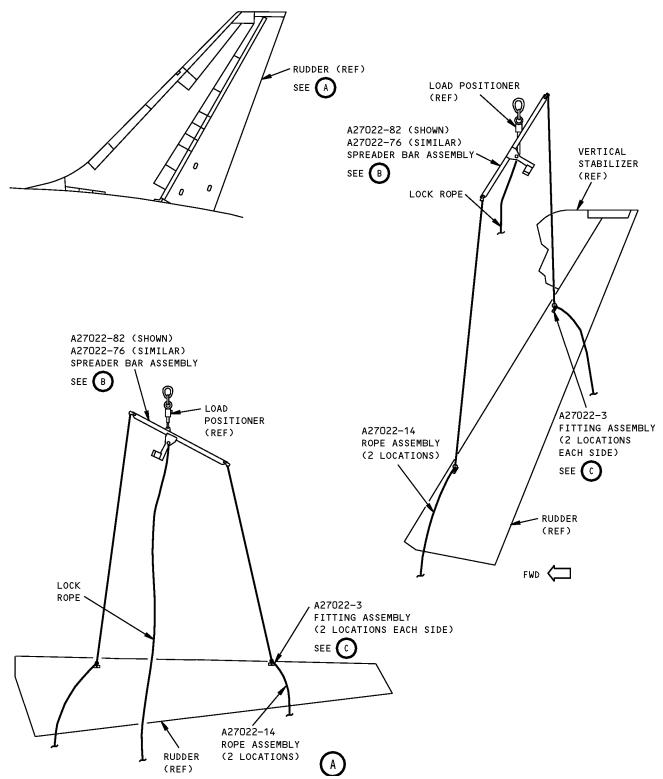
A27022-81			
QUANTITY	NOMENCLATURE	PART NUMBER	
4	FITTING ASSEMBLY	A27022-3	
2	ROPE ASSEMBLY	A27022-14	
1	SPREADER BAR ASSEMBLY	A27022-82	
1	STORAGE BOX		

WEIGHT: 485 lbs (220 kg)

DIMENSIONS: 33 x 42 x 131 inches (838 x 1067 x 3327 mm)

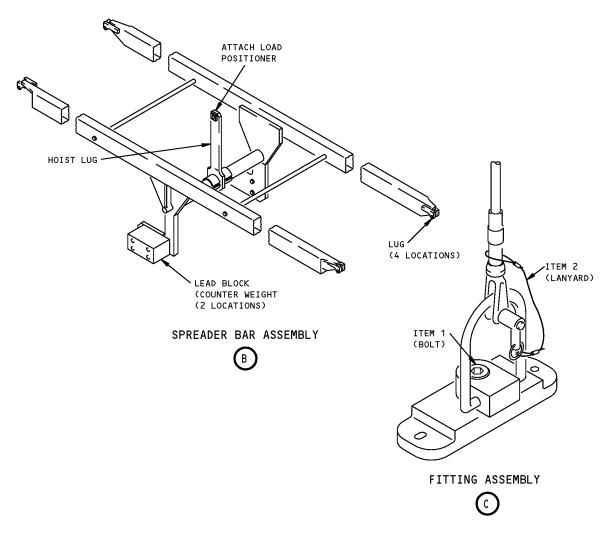
NOTE: A27022-81 replaces A27022-75 for future procurement.





Rudder Installation/Removal Sling Equipment Figure 1





Rudder Installation/Removal Sling Spreader Bar and Fitting Assemblies Figure 2

REPAIRABLE/REPLACEABLE PARTS				
ITEM NO. PART NO. NOMENCLATURE VENDOR CODE				
1	MS16998-46	BOLT		
2	CL-42-KA-12.0LR	LANYARD	V99862	



PART NUMBER: A27057-1, -9, -13

NAME: PROTRACTOR BRACKET EQUIPMENT - FEEL CENTERING AND TRIM

INSTALLATION, RUDDER CONTROL

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This equipment is used to measure tangential load at the aft quadrant upper

and lower cable guard pin. The 1,-9,-13 each consists of a protractor bracket assembly, a cord, and a storage box assembly. The -1 and -9 "force and angle equipment" with force dial, the -13 "protractor bracket equipment"

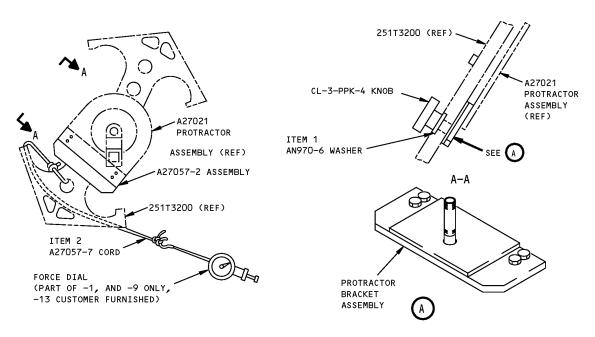
does not include a force dial.

WEIGHT: 2 lbs (0.9 kg)

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

NOTE: A27057-13 replaces A27057-1, and -9 for future procurement.

A27057-9 replaces A27057-1 for future procurement.



Rudder Control Feel Centering and Trim Instl. Protractor Bracket Equip Figure 1



	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	AN970-6	WASHER		
2	-7	CORD		

PART NUMBER: A27109-1

NAME: RIGGING BAR - RATIO CHANGER INSTALLATION, RUDDER CONTROL

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to determine the correct thickness of shims needed under

the actuator mount assembly. This tool consists of an aluminum bar (with a bearing installed in both ends) and a storage box assembly. Refer to AMM $\,$

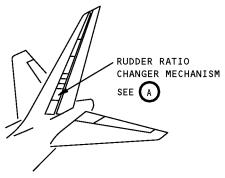
27-21-15 for further usage information.

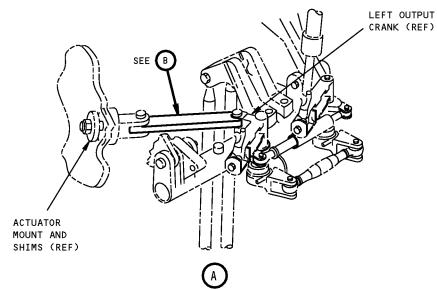
WEIGHT: 0.5 lbs (0.2 kg)

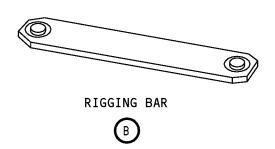
DIMENSIONS: 0.4 x 1 x 8.2 inches (10 x 25 x 208 mm)

NOTE: A27109 supersedes A27056.









Rudder Control Ratio Changer Installation Rigging Bar 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, 767 and 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 $\frac{1}{2}$

AMM 27-02-00 for complete usage.

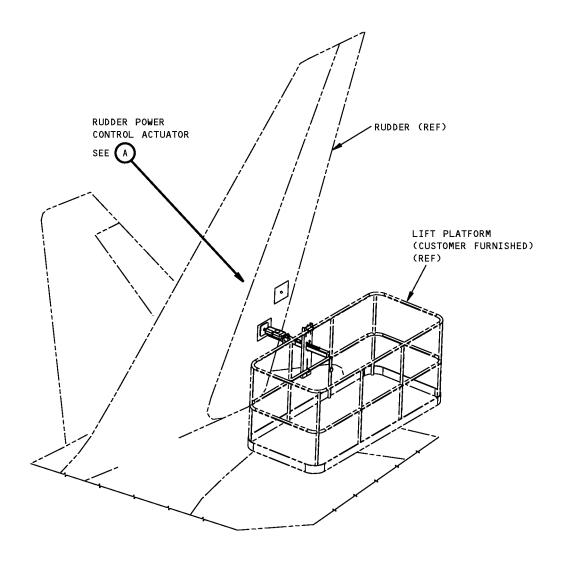
A27124-1 consists of:

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 (15 x 38 x 66)





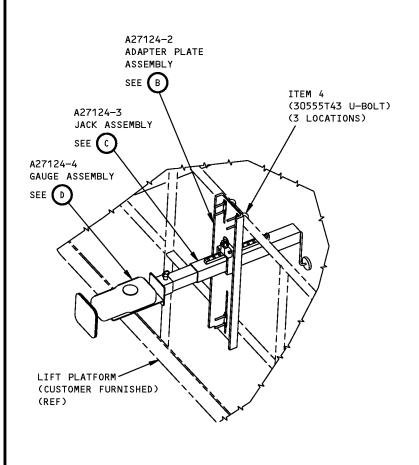
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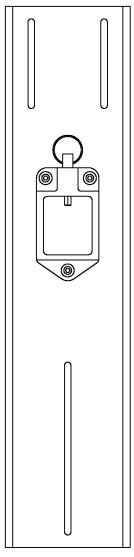
Force Equipment - Rudder Freeplay Check Figure 1 (Sheet 1 of 3)

27-20-06

Page 2 Oct 10/2008







A27124-2 ADAPTER PLATE ASSEMBLY



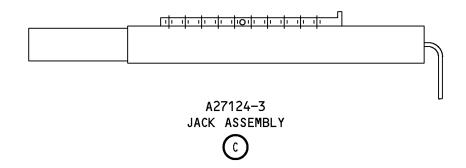
1669089 S0000304608_V1

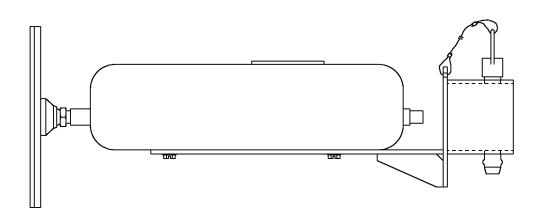
Force Equipment - Rudder Freeplay Check Figure 1 (Sheet 2 of 3)

27-20-06

Page 3 Oct 10/2008







A27124-4 GAUGE ASSEMBLY

1669093 S0000304609_V1

Force Equipment - Rudder Freeplay Check Figure 1 (Sheet 3 of 3)

27-20-06

Page 4 Oct 10/2008



PART NUMBER: A27111-11

NAME: LOCK EQUIPMENT - ELEVATOR ACTUATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The lock assemblies contained in this tool are attached to the elevator Power

Control Actuators (PCAs) to hold the elevator in the full up position for actuator replacement or while performing inspections. These locks have been designed to withstand system pressure. Refer to AMM 27-31-05 for further usage instructions. The lock equipment consists of six lock

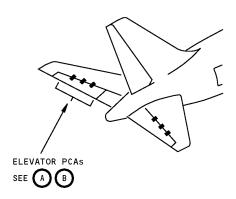
assemblies, two bushing assemblies and a storage box assembly.

WEIGHT: 8 lbs (3.6 kg) (excluding box)

DIMENSIONS: 10 x 15 x 25 inches (254 x 381 x 635 mm) (excluding box)

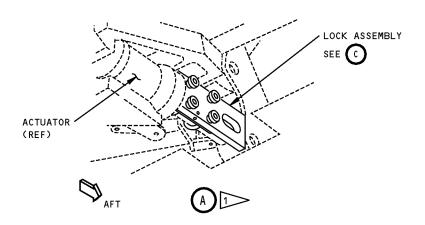
NOTE: A27111-11 supersedes A27111-1.

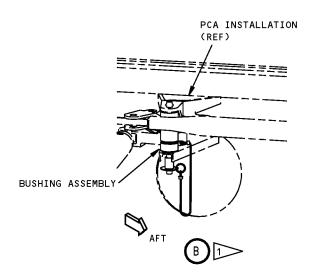
A27111 supersedes A27008 and A27104.

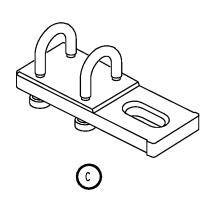


Elevator Power Control Actuators Figure 1









1 LOCK MUST BE INSTALLED ON EACH ACTUATOR

Elevator Power Control Actuator Lock Figure 2

27-30-01



PART NUMBER: A27098-1

NAME: TEST BOX - BITE DISPLAY PCA, WARNING ELECTRONIC UNIT (WEU)

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27098 drawing has been transferred to BAE Systems and will no longer

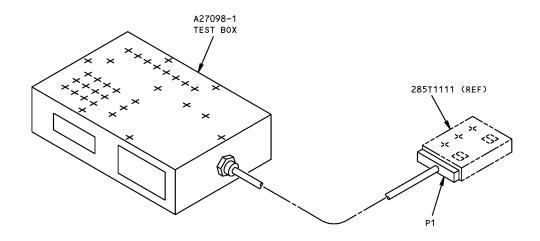
be revised by Boeing. The A27098 inclusion in the 767 ITEM is for information

and historical purposes only.

The A27098 test box is used to test the WEU Bite Display PCA. The test box is composed of a chassis assembly, panel, terminal board, and attaching parts.

WEIGHT: 5 lbs (2.3 kg)

DIMENSIONS: 12 x 8 x 4 inches (305 x 203 x 102 mm)



WEU Bite Display PCA Test Box Figure 1

PART NUMBER: A27012-30

NAME: SLING EQUIPMENT - INBOARD/OUTBOARD ELEVATOR SEGMENT

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool consists of two cable and sling assemblies. The -2 sling assembly is

used for removal/installation of the inboard elevator while the -3 sling

assembly is used on the outboard elevator.

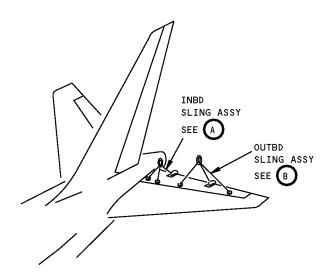
WEIGHT: 29 lbs (13.2 kg)

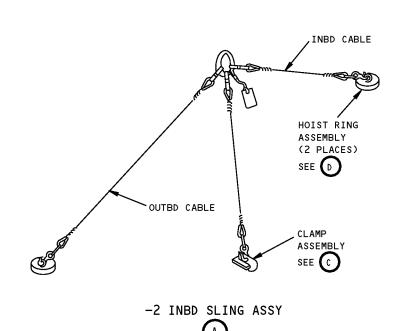
DIMENSIONS: 5 x 10 x 65 inches (127 x 254 x 1651 mm)

NOTE: A27012-30 supersedes A27012-20



767
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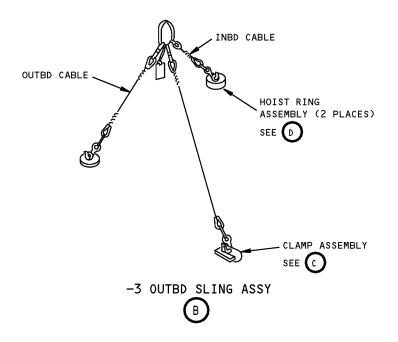


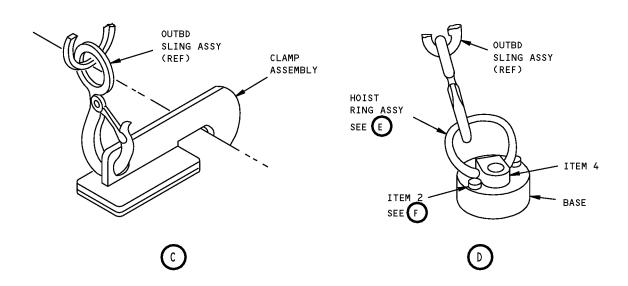


Inboard/Outboard Elevator Segment Sling Equipment Figure 1 (Sheet 1 of 3)

27-30-03



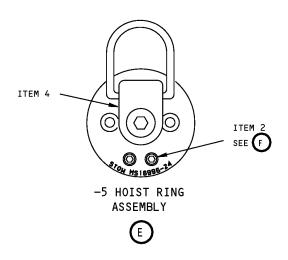


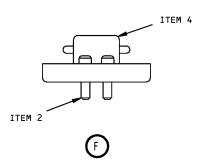


Inboard/Outboard Elevator Segment Sling Equipment Figure 1 (Sheet 2 of 3)

27-30-03







Inboard/Outboard Elevator Segment Sling Equipment Figure 1 (Sheet 3 of 3)

REPAIRABLE/REPLACEABLE PARTS						
ITEM NO.	ITEM NO. PART NO. NOMENCLATURE VENDOR CODE					
1	CL-24-KA-4.0 LR	LANYARD	V99862			
2	MS16996-24	SOCKET HD CAP SCREW				
3	F70308-2	PROOF LOAD TAG				
4	-17	HOIST RING	V99862			

PART NUMBER: A27001-1, -2, -3, -4

NAME: PCA GAGES - INBD/OUTBD AILERON, RUDDER, ELEVATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool consists of four gage assemblies used to measure shim thicknesses

for the Power Control Actuator (PCA) installations. The A27001-1 gage assembly is used on the rudder, the A27001-2 is used on the inboard aileron, the A27001-3 is used on the elevator and the A27001-4 is used on the outboard aileron. One gage assembly is used to hold the control surface in a neutral position while a second gage is used for measurements at other

actuator installation locations.

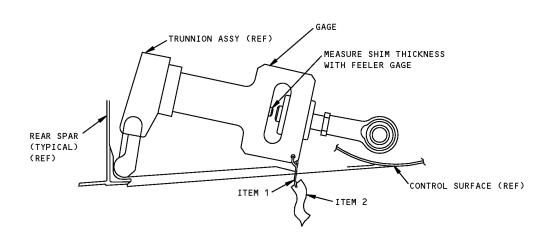
WEIGHT: A27001-1 - 12 lbs (5.4 kg)

A27001-2 - 11 lbs (5 kg) A27001-3 - 8 lbs (3.6 kg) A27001-4 - 7 lbs (3.2 kg)

DIMENSIONS: A27001-1 - 5 x 5 x 19 inches (127 x 127 x 483 mm)

A27001-2 - 5 x 5 x 16 inches (127 x 127 x 406 mm) A27001-3 - 5 x 5 x 15 inches (127 x 127 x 381 mm) A27001-4 - 4 x 4 x 12 inches (102 x 102 x 305 mm)





Inboard/Outboard Aileron, Rudder, Elevator PCA Gages Figure 1

REPAIRABLE/REPLACEABLE PARTS				
ITEM NO. PART NO. NOMENCLATURE VENDOR CODE				
1	CL-22-KA-10.0LR	LANYARD	V99862	
2	NAS1756-36	WARNING STREAMER		



PART NUMBER: A27025-1

NAME: RIGGING EQUIPMENT - FORCE TRANSDUCER, ELEVATOR CONTROL

AIRPLANE MAINTENANCE: NO

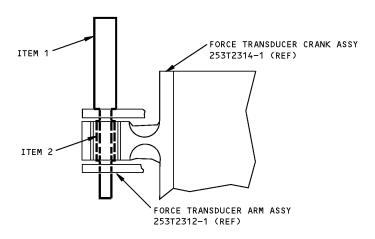
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to set the force transducer of the elevator control assembly

to a neutral or 'zero load' condition.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 3 x 4 x 6 inches (76 x 102 x 152 mm)



Force Transducer Rigging Set Figure 1

REPAIRABLE/REPLACEABLE PARTS				
ITEM NO. PART NO. NOMENCLATURE VENDOR CODE				
1	-2	ROD		
2	-3	BUSHING		

PART NUMBER: A55002-1

NAME: WRENCH - RETAINER NUT, BUSHING, ELEVATOR HINGE

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is a spanner wrench that is used with a customer-supplied torque

wrench to adjust the elevator hinge bushing retainer nut. Refer to CMM 55-

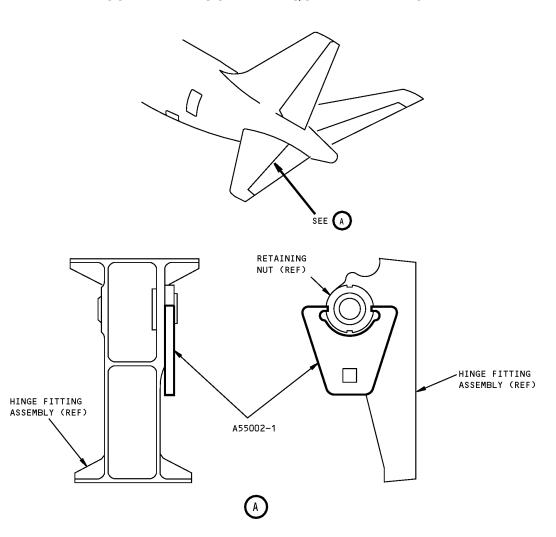
20-22 for further usage instructions.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 1 x 4 x 4 inches (25 x 102 x 102 mm)



767
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Elevator Hinge Bushing Retainer Nut Wrench Figure 1



PART NUMBER: A27035-1

NAME: ADAPTER - RUDDER/ELEVATOR FEEL ACTUATOR CYLINDER

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

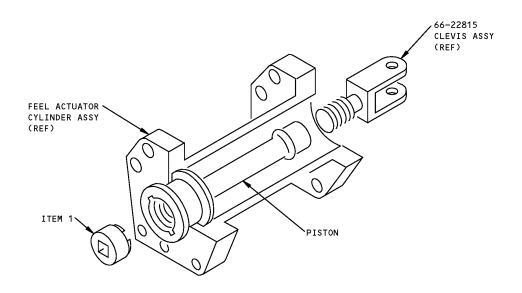
USAGE & DESCRIPTION: This tool is a steel torque wrench adapter that is used with a customer-

supplied 3/8-inch square drive torque wrench (260-280 in/lbs) to secure the

feel actuator cylinder piston to the actuator clevis assembly.

WEIGHT: .125 lbs (0.06 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 - FEEL ACTUATOR CYLINDER ASSEMBLY

AIRPLANE MAINTENANCE: NO

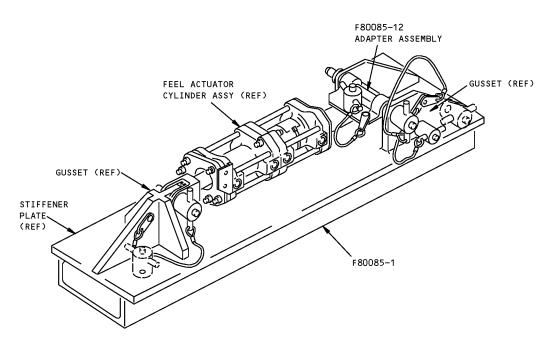
COMPONENT MAINTENANCE: YES

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 (19.5 kg)

DIMENSIONS: 5 x 6 x 25 inches (127 x 152 x 635 mm)



Feel Actuator Cylinder Assembly Test Fixture Figure 1



PART NUMBER: A27041-177

NAME: TEST EQUIPMENT - ELEVATOR FEEL AND CENTERING UNIT

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used in conjunction with test set A27081 to functionally test the

elevator feel and centering unit. Refer to CMM 27-31-09 for complete usage instructions. This tool consists of a test stand assembly, a unit assembly two

turnbuckle assemblies and a box assembly.

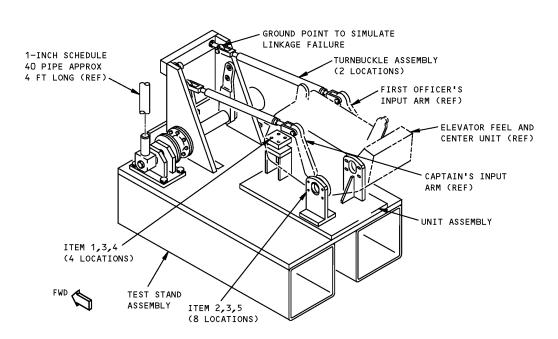
WEIGHT: 410 lbs (186 kg)

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

NOTE: A27041-177 supersedes A27041-142 and -170.

A27041-170 replaces A27041-142 for future procurement.

A27041-142 supersedes A27041-104. A27041-104 supersedes A27041-34. A27041-34 supersedes A27041-1.



Elevator Feel and Centering Unit Test Equipment Figure 1



	REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	ITEM NO. PART NO. NOMENCLATURE VENDOR CODE				
1	AN4-11	BOLT			
2	AN4-13	BOLT			
3	AN960-416	WASHER			
4	AN315-4	NUT			
5	MS21044-C4	NUT			

PART NUMBER: A27058-60

NAME: JIG EQUIPMENT - ELEVATOR FEEL AND CENTERING UNIT

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to disassemble, assemble and test the elevator feel and

centering unit assembly. The pull actuator assembly with the jig and dial indicators in positions 1 and 2 ensure that the two halves of the unit are centered. The dial indicator in position 3 centers the cam assembly with the arm assembly bearing. Refer to CMM 27-31-09 for further usage instructions. The tool consists of a pull actuator assembly, a jig assembly, a dial indicator, a split collett, a contact extension, four drill bushings, four reamer bushings, two bushing blocks, a contact point and a box assembly. The drills and reamers are used as guides for accurate drilling and reaming operations on

new parts installed into the unit assembly.

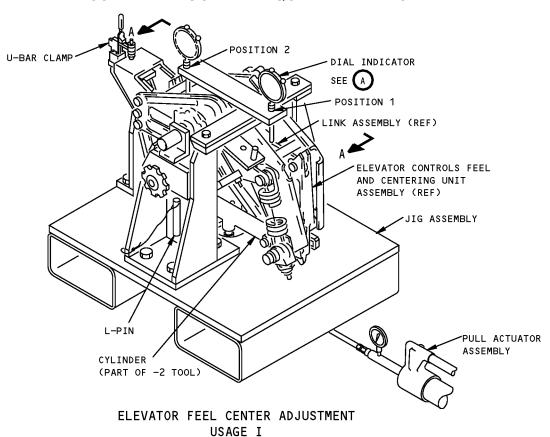
WEIGHT: 160 lbs (73 kg)

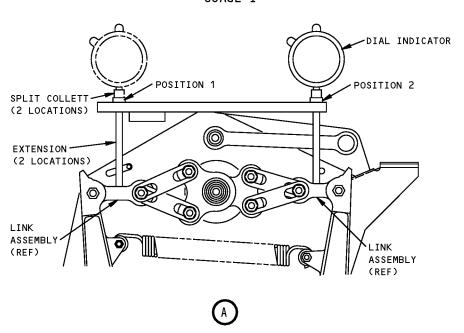
DIMENSIONS: 16 x 20 x 24 inches (406 x 508 x 610 mm)

NOTE: A27058-60 supersedes -57.



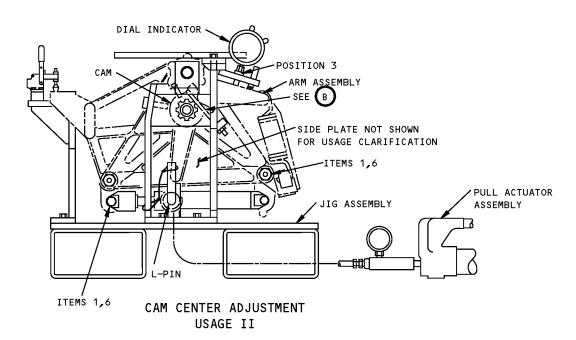
767
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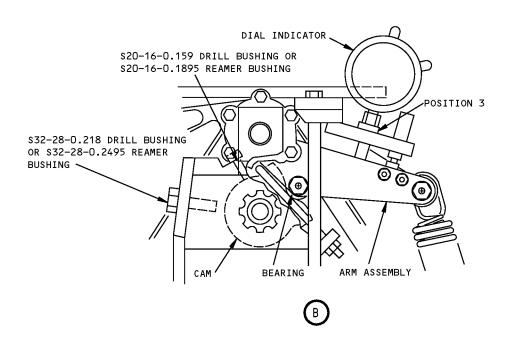




Elevator Feel and Centering Unit Jig Equipment Figure 1 (Sheet 1 of 3)





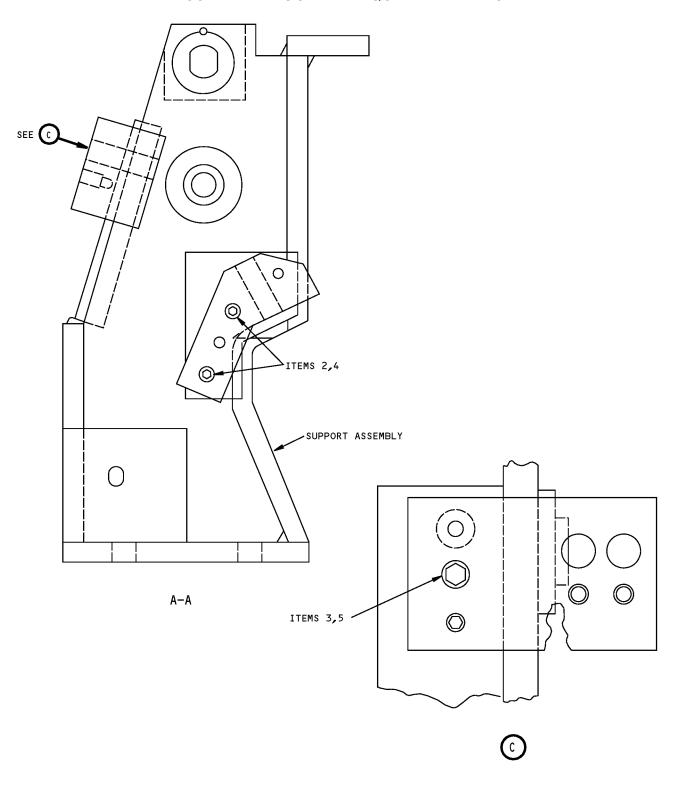


Elevator Feel and Centering Unit Jig Equipment Figure 1 (Sheet 2 of 3)

27-30-10



767
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Elevator Feel and Centering Unit Jig Equipment Figure 1 (Sheet 3 of 3)

27-30-10



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	AN6-13A	BOLT	
2	AN960-416L	WASHER	
3	AN960-616L	WASHER	
4	MS16998-48	CAP SCREW	
5	MS16998-76	CAP SCREW	
6	MS51968-8	NUT	
6	MS51968-9 (OPTIONAL)	NUT	



PART NUMBER: B27070-1

NAME: ALIGNMENT PIN - FEEL ACTUATOR PISTON

AIRPLANE MAINTENANCE: NO

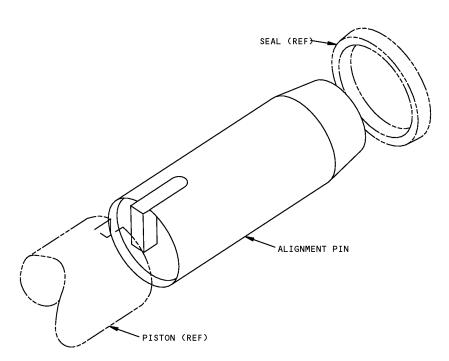
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: Use to align piston during installation of seals in feel actuator assemblies.

This tool consists of a -2 pin assembly located in a -5 box assembly.

WEIGHT: 1.5 lbs (0.7 kg)

DIMENSIONS: 1 x 1 x 2 inches (25 x 25 x 51 mm)



Feel Actuator Piston Alignment Pin Figure 1

PART NUMBER: A27086-10

NAME: SUPPORT FIXTURE - ELEVATOR SLAVE LINKAGE

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to hold elevator slave linkage during spring tension

adjustment. Refer to CMM 27-31-55 for further usage instructions. This tool consists of a bushing adapter, a support fixture assembly, a jig pin and a

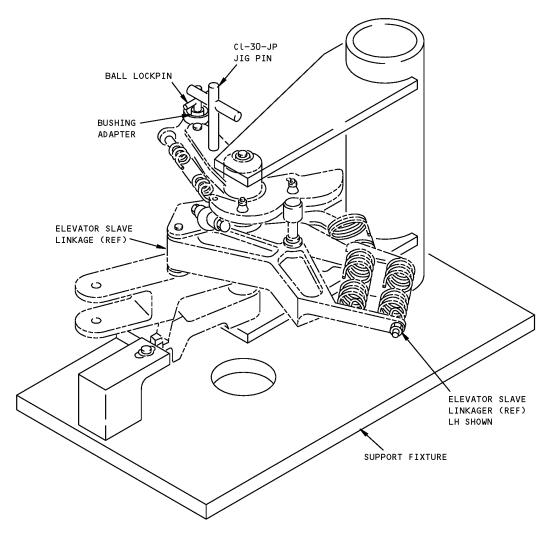
storage box assembly.

WEIGHT: 25 lbs (11.3 kg)

DIMENSIONS: 7.5 x 8 x 14.5inches (191 x 203 x 381 mm)

NOTE: A27086-10 supersedes A27086-1.





Elevator Slave Linkage Support Fixture Figure 1

PART NUMBER: J27079-31

NAME: INSPECTION EQUIPMENT - ELEVATOR FREEPLAY

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The J27079-31 inspection equipment is used on all 767 airplanes. J27079 is

used to perform the "freeplay" inspection of the elevator power control units. Refer to AMM 27-31-09 for complete usage instructions. J27079-31 consists

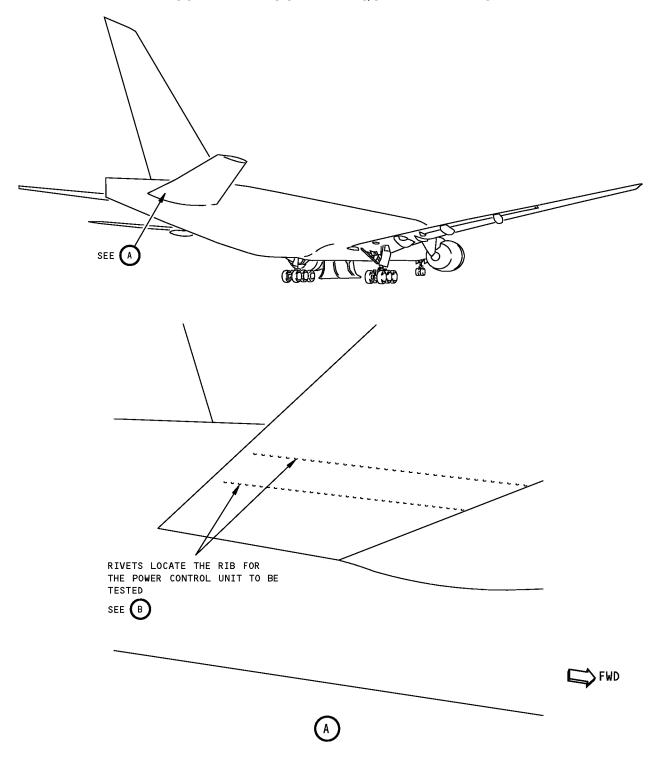
of:

J27079-31				
QUANTITY NOMENCLATURE PART NUMI				
1	JACK ASSEMBLY	J27079-2		
1	PAD ASSEMBLY	J27079-3		
1	SUCTION PAD ASSEMBLY	J27079-4		
1	UPRIGHT BASE POST	665B		
1	SWIVEL POST SNUG	665D		
1	GAGE HOLDING ROD	PT06784A		
1	INDICATOR	25-631J		
1	STORAGE BOX			

WEIGHT: 27 lbs (12 kg)

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





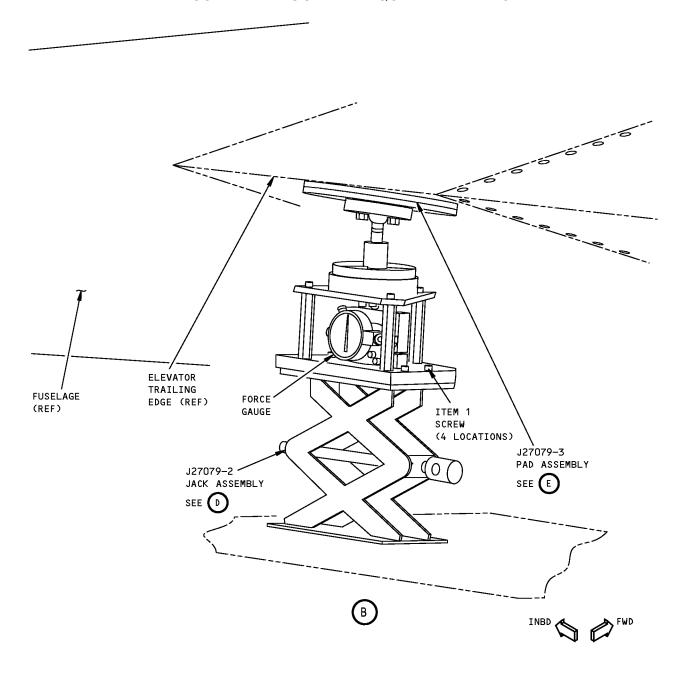
1552708 S0000285547_V1

Elevator Freeplay Inspection Equipment Figure 1 (Sheet 1 of 5)

27-30-13

Page 2 Apr 10/2008





1552741 S0000285552_V1

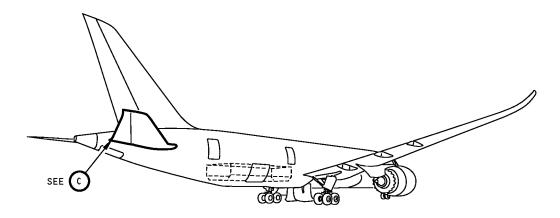
Elevator Freeplay Inspection Equipment Figure 1 (Sheet 2 of 5)

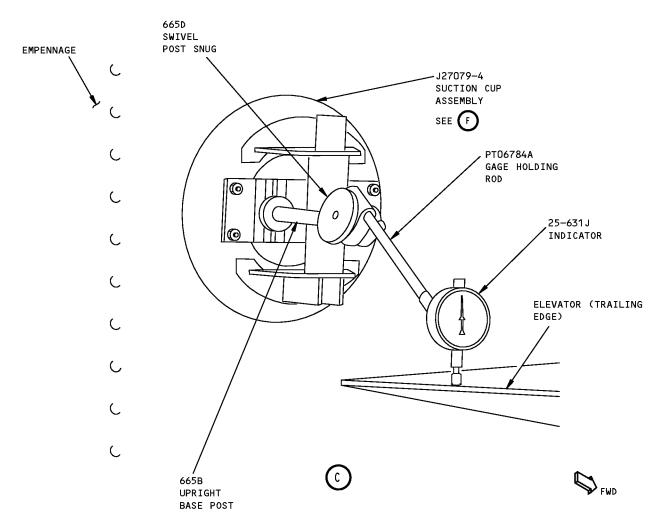
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Page 3 Apr 10/2008



767
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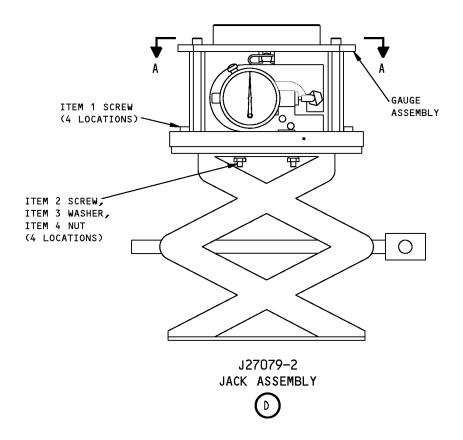
1552746 S0000285553_V1

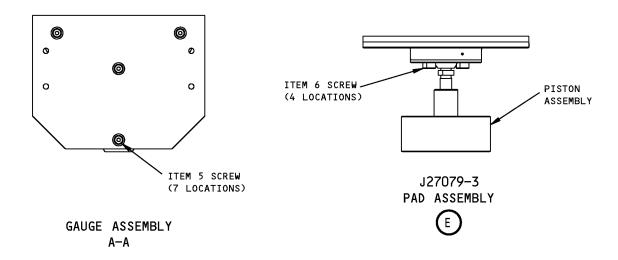
Elevator Freeplay Inspection Equipment Figure 1 (Sheet 3 of 5)

27-30-13

Page 4 Apr 10/2008







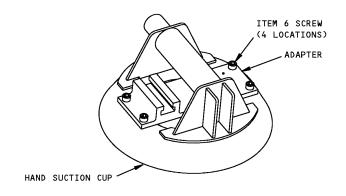
1552754 S0000285555_V1

Elevator Freeplay Inspection Equipment Figure 1 (Sheet 4 of 5)

27-30-13

Page 5 Apr 10/2008





J27079-3 SUCTION CUP ASSEMBLY



1552765 S0000285560_V1

Elevator Freeplay Inspection Equipment Figure 1 (Sheet 5 of 5)

REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
[1]	J27079-8	SCREW		
[2]	J27079-10	SCREW		
[3]	J27079-11	WASHER		
[4]	J27079-12	NUT		
[5]	J27079-16	SCREW		
[6]	J27079-23	SCREW		

PART NUMBER: A27006-41

NAME: HOIST EQUIPMENT - HORIZONTAL STABILIZER TRIM ACTUATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is a welded structural holder in which the horizontal stabilizer trim

actuator nests during removal/ installation. The tool uses two customersupplied fishpole hoists. The major tool components are the holder assembly, the bracket assembly, the keeper, the sheave assembly and the -

42, -43, -44 and -45 strap assemblies.

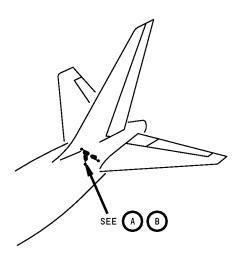
WEIGHT: 15 lbs (7 kg)

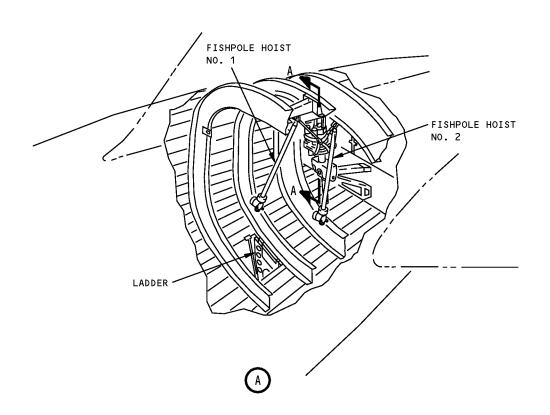
DIMENSIONS: 12 x 20 x 28 inches (205 x 508 x 711 mm)

NOTE: A27006-41 supersedes A27006-33 and -17. fit



767
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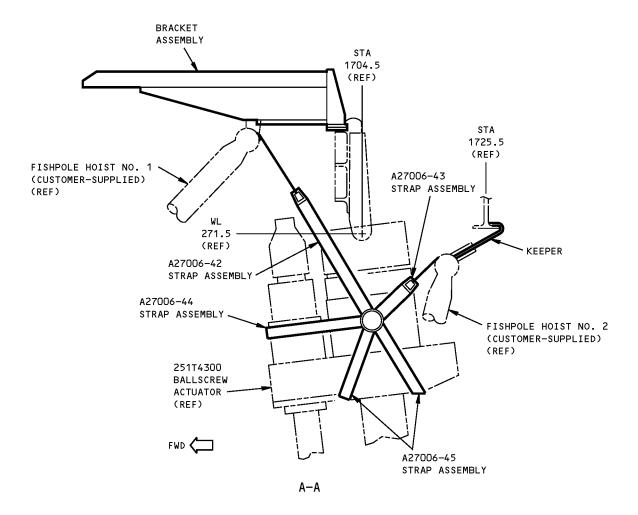




Horizontal Stabilizer Trim Actuator Hoist Equipment Figure 1 (Sheet 1 of 5)

27-40-01

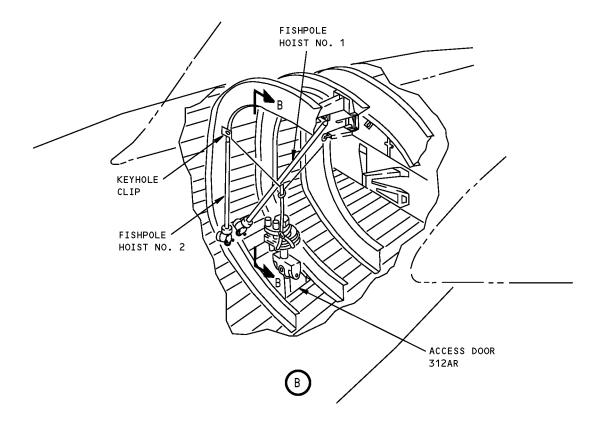




Horizontal Stabilizer Trim Actuator Hoist Equipment Figure 1 (Sheet 2 of 5)

27-40-01



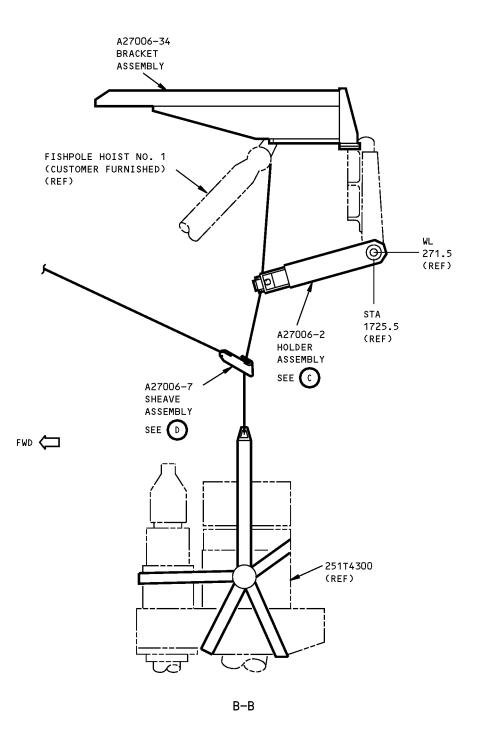


Horizontal Stabilizer Trim Actuator Hoist Equipment Figure 1 (Sheet 3 of 5)

27-40-01

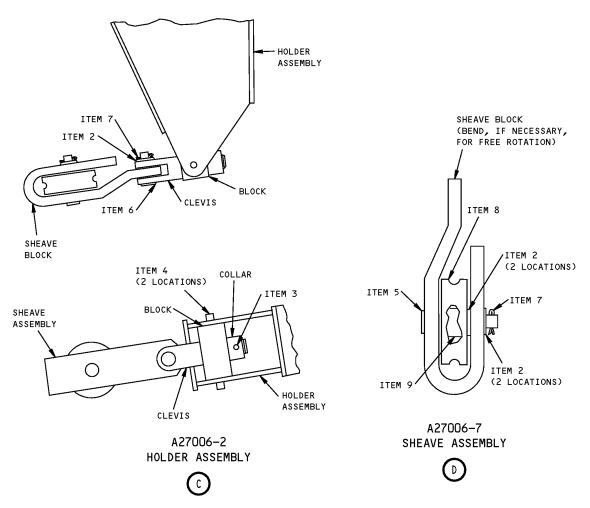


767
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Horizontal Stabilizer Trim Actuator Hoist Equipment Figure 1 (Sheet 4 of 5)





Horizontal Stabilizer Trim Actuator Hoist Equipment Figure 1 (Sheet 5 of 5)

	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	F70308-15	PROOF LOAD TAG		
2	AN960-C416L	WASHER		
3	MS16562-229	SPRING PIN		
4	MS16562-236	SPRING PIN		
5	MS20392-3C37	PIN		
6	MS20392-3C23	PIN		
7	MS24665-132	COTTER PIN		
8	00158	SHEAVE *[1]		



REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	ITEM NO. PART NO. NOMENCLATURE VENDOR CODE			
9	05014	SPACER *[1]		

^{*[1]} BLOCK DIVISION INC. - 618 FRONT ST. P.O. BOX 1297 - WICHITA FALLS, TX 76307



PART NUMBER: A27062-1

NAME: TOOL SET - STABILIZER TRIM DRIVE

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

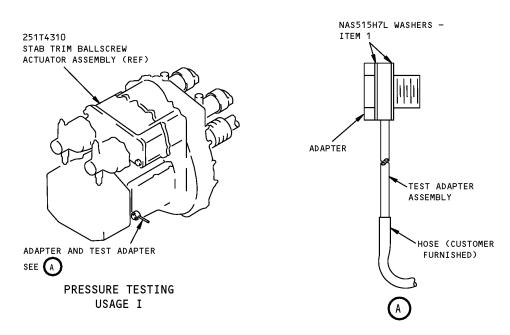
USAGE & DESCRIPTION: This tool is used for disassembling and assembling the stabilizer trim

actuator. The tool set consists of an adapter, test adapter assembly, spanner assembly, bolt retention assembly, rod assembly, tube assembly, rest, guide, drive adapter assembly, wrench, gage assembly, socket, spanner

adapter assembly, nylon washers and a plastic knob.

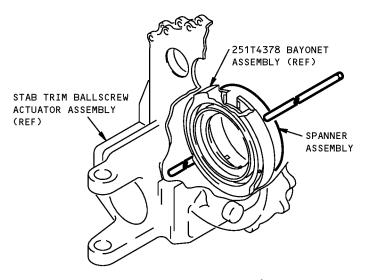
WEIGHT: 43 lbs (20 kg)

DIMENSIONS: 8 x 25 x 30 inches (203 x 635 x 762 mm)

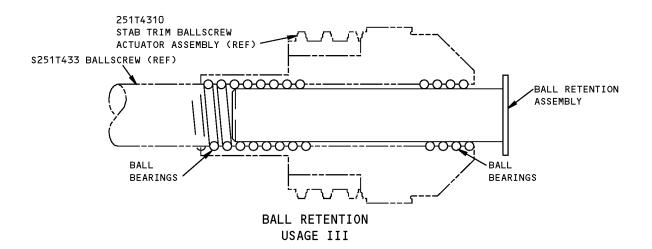


Stabilizer Trim Drive Tool Set Usage Figure 1 (Sheet 1 of 5)





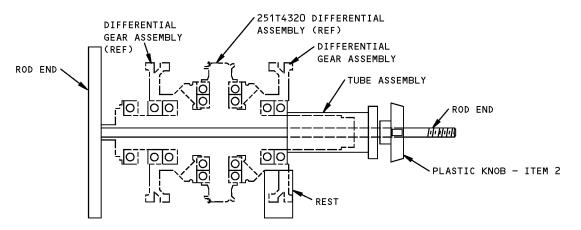
BAYONET ASSEMBLY REMOVAL/INSTALLATION USAGE II



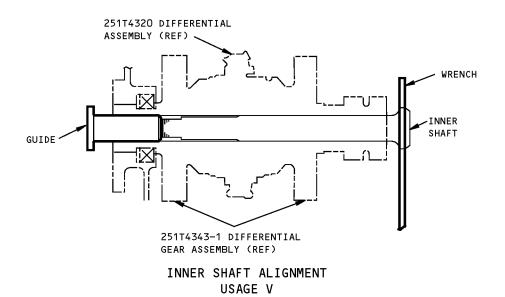
Stabilizer Trim Drive Tool Set Usage Figure 1 (Sheet 2 of 5)

27-40-02





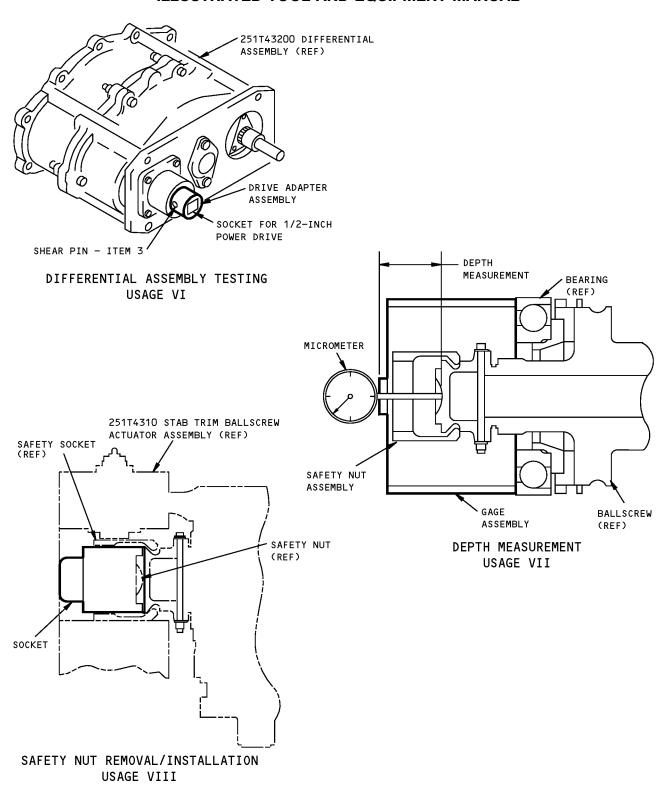
REVERSE TOOL INSTALLATION USAGE IV



Stabilizer Trim Drive Tool Set Usage Figure 1 (Sheet 3 of 5)

27-40-02

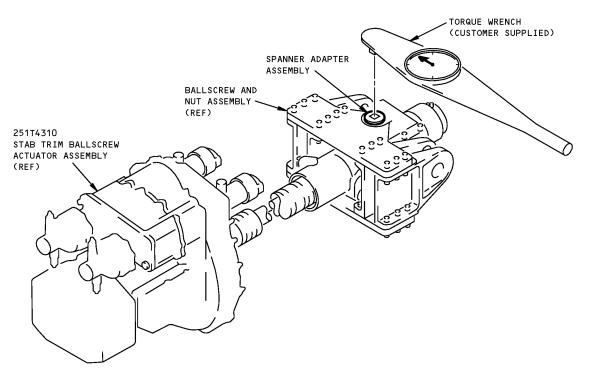




Stabilizer Trim Drive Tool Set Usage Figure 1 (Sheet 4 of 5)

27-40-02 Apr 10/2006





SPANNER NUT REMOVAL/INSTALLATION USAGE IX

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

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1515H7L	WASHER	
2	CL-4-PPK-4	PLASTIC KNOB	
3	-28	SHEAR PIN	

PART NUMBER: A27072-55

NAME: TEST FIXTURE - STABILIZER TRIM DRIVE MECHANISM

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27072-55 test fixture is used for component maintenance testing on all

767 airplanes. A27072 is used in conjunction with an A27062 drive adapter to hold the 251T4310 ballscrew actuator assembly during functional tests. The 251T4310 ballscrew is mounted in the A27072-55 test fixture using the A27072-27 clevis attached to the A27072-5 clevis assembly. The A27072-48 clevis is used for testing the 777 ballscrew actuator. The A27072-36 lock is used in a functional test to lock one motor shaft. Refer to CMM 27-41-01 for complete usage instructions. Due to the large size of the A27072-56 fixture assembly, it is not contained in storage box. The other A27072 test fixture components are

contained in a storage box. The storage box contents are:

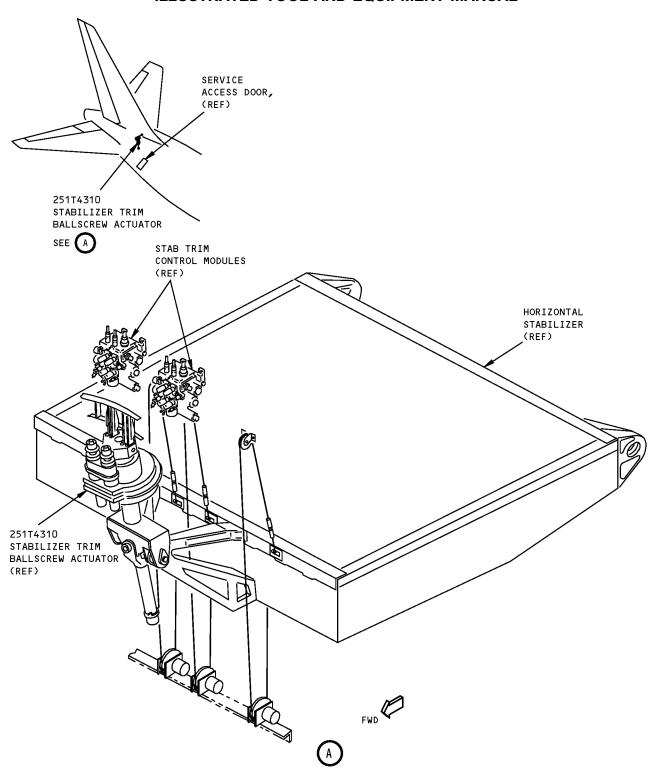
	A27072-55			
QUANTITY	NOMENCLATURE	PART NUMBER		
1	CLEVIS ASSEMBLY	A27072-5		
1	DRIVE ASSEMBLY	A27072-29		
1	UPPER ASSEMBLY	A27072-33		
1	CLEVIS	A27072-27		
1	LOCK	A27072-36		
1	CLEVIS	A27072-48		
1	STORAGE BOX			

WEIGHT: 716 lbs (325 kg) (excluding box)

DIMENSIONS: 16 x 24 x 36 inches (406 x 610 x 914 mm) (boxed parts) (excluding box)

NOTE: A27072-55 supersedes A27072-42, -43, -44, -53.

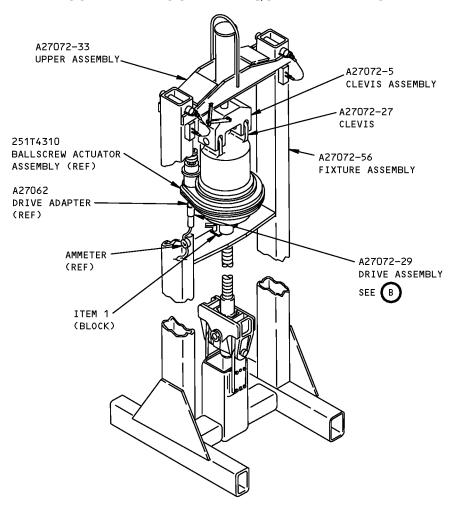


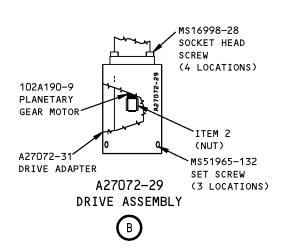


Stabilizer Trim Ballscrew Actuator Figure 1



767
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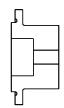


Stabilizer Trim Drive Mechanism Test Fixture Figure 2 (Sheet 1 of 2)

27-40-03







A27072-36 LOCK

Stabilizer Trim Drive Mechanism Test Fixture Figure 2 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	ITEM NO. PART NO. NOMENCLATURE VENDOR CODI				
1	A27072-28	BLOCK (STEEL, 0.625 X 1.3 X 6.2 INCHES)			
2	A27072-35	NUT			

PART NUMBER: A27085-1

NAME: SLING ASSEMBLY - STABILIZER TRIM DRIVE MECHANISM

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

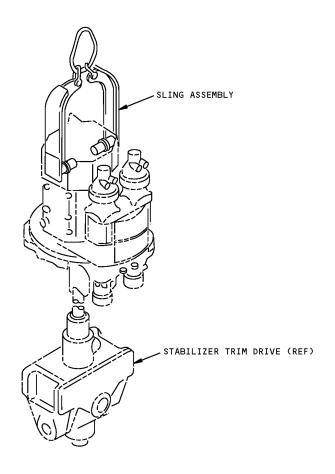
USAGE & DESCRIPTION: This tool is used to lift and rotate the stabilizer trim drive mechanism

assembly.

WEIGHT: 18 lbs (8.2 kg)

DIMENSIONS: 3 x 16 x 16 inches (76 x 406 x 406 mm)





Stabilizer Trim Drive Mechanism Sling Assembly Figure 1



PART NUMBER: A27095-10

NAME: SCALE - CONTROL COLUMN ANGLE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to measure the control column angles during stabilizer trim

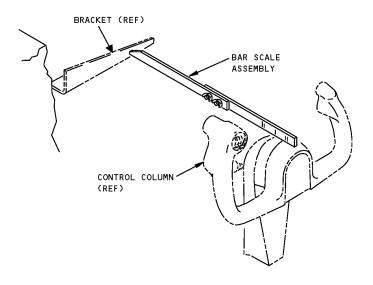
functional test. The tool consists of a two-piece steel weldment, usage placard, and storage box. Refer to AMM 27-41-00 for further usage

instructions.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 1 x 3 x 17 inches (25 x 76 x 432 mm)

NOTE: A27095-10 supersedes A27095-1.



Control Column Angle Scale Figure 1



PART NUMBER: A27123-1

NAME: MEASUREMENT EQUIPMENT BEVEL GEAR TEETH, STABILIZER TRIM

ACTUATOR

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

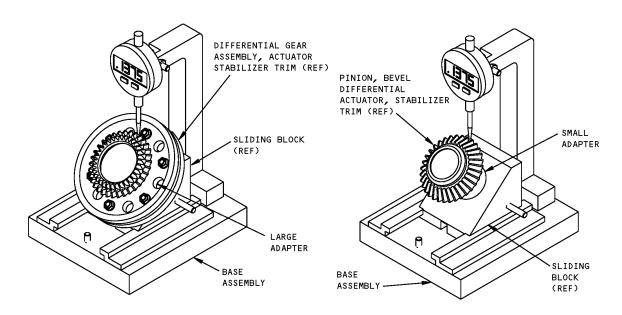
USAGE & DESCRIPTION: This tool is used to check the tooth thickness of the bevel gear teeth on the

stabilizer trim actuator assemblies. Refer to CMM 27-41-01 for further usage instructions. This tool consists of a base assembly, a large adapter, a small

adapter, a set block and a storage box assembly.

WEIGHT: 21 lbs (9.5 kg)

DIMENSIONS: 6 x 7 x 10.2 inches (152 x 178 x 259 mm)



Stabilizer Trim Actuator Bevel Gear Teeth Measurement Equipment Figure 1



PART NUMBER: A27009-7

NAME: LOCK - TRAILING EDGE FLAPS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is a piece of bar stock to which a boss and a spline are welded.

These mate to hard points in the Power Drive Unit (PDU) to lock the Trailing

Edge (TE) Flaps in extended position for maintenance or in a parked,

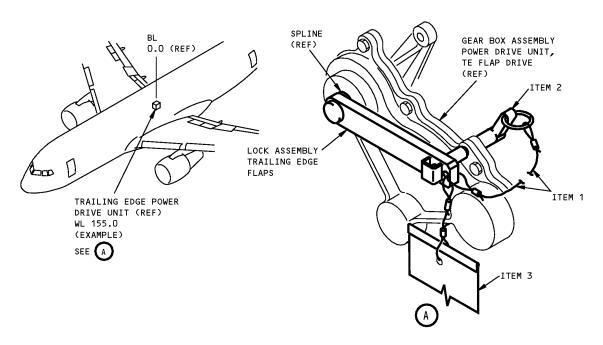
extended-flap wind load condition. Refer to AMM 27-51-00 for specific usage

instructions.

WEIGHT: 4 lbs (1.8 kg) (excluding box)

DIMENSIONS: 3 x 6 x 8 inches (76 x 152 x 203 mm) (excluding box)

NOTE: A27009-7 supersedes A27009-1.



Trailing Edge Flaps Lock Figure 1

REPAIRABLE/REPLACEABLE PARTS					
ITEM NO. PART NO. NOMENCLATURE VENDOR CODE					
1 CL-21-KA-12.0 LR LANYARD V99862					



REPAIRABLE/REPLACEABLE PARTS				
ITEM NO. PART NO. NOMENCLATURE VENDOR CODE				
2	NAS1334C5C25	BALL LOCKPIN		
3	NAS1756-24	WARNING STREAMER		

PART NUMBER: A27016-27

NAME: SLING EQUIPMENT - INBOARD TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27016-27 sling equipment is used on all 767 airplanes. The A27016-27 is

used in the installation and removal of the inboard trailing edge flap with provision to remove the inboard trailing edge flap only. This tool is used with restraining tool, A27019. The A27016-22 sling equipment can be reworked into the A27016-27 by using the instructions in the current A27016 drawing. Refer to AMM 27-51-03 and current A27016 for further usage instructions. The

A27016 sling equipment consists of the following:

A27016-27				
QUANTITY	QUANTITY NOMENCLATURE			
1	BRACKET ASSEMBLY	A27016-2		
1	BRACKET ASSEMBLY	A27016-3		
3	HOIST RING ASSEMBLY	A27016-5		
1	LOCATOR PIN ASSEMBLY	A27016-14		
1	SLING ASSEMBLY	A27016-28		
1	STORAGE BOX			

WEIGHT: 27 lbs (12 kg)

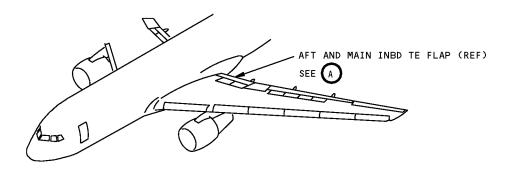
DIMENSIONS: 2 x 12 x 21 inches (51 x 305 x 533 mm)

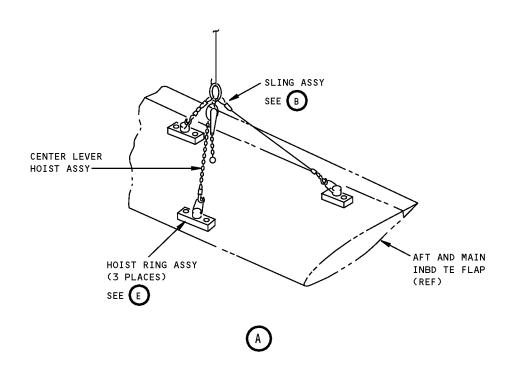
NOTE: A27016-27 supersedes A27016-22.

A27016-22 Supersedes A27016-21. A27016-21 Supersedes A27016-1.



767
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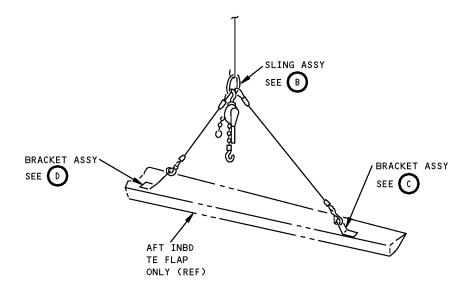


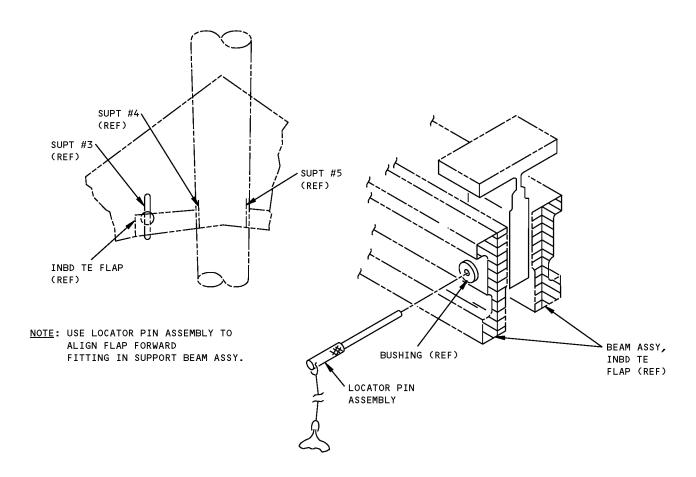
Inboard Trailing Edge Flap Sling Equipment Figure 1 (Sheet 1 of 3)

27-50-02



767
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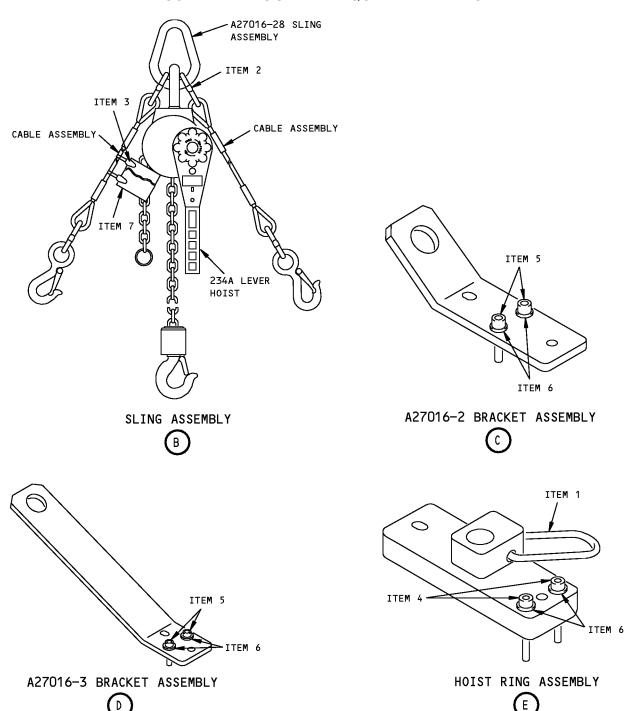
Inboard Trailing Edge Flap Sling Equipment Figure 1 (Sheet 2 of 3)

27-50-02

Page 3 Apr 10/2006



767 **ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



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

27-50-02 Apr 10/2007



REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	CL-10-SHR	HOIST RING	V99862	
2	A-336-1/4	CONNECTING LINK	V75535	
3	SSC2S-S6	CABLE TIE	V06383	
4	MS16998-48	CAP SCREW		
5	MS16998-46	CAP SCREW		
6	AN960-416	WASHER		

PART NUMBER: A27027-53, -54

NAME: SLING EQUIPMENT - OUTBOARD TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27027-53 sling equipment is used on 767-200 and -300 airplanes. The

A27027-54 sling equipment is used on all 767 airplanes and is preferred for future procurement.. These tools are used for removal and installation of the outboard trailing edge flaps. Refer to AMM 27-51-20 and current A27027 drawing for further usage instructions. The A27027-53 and -54 tools consist of

the following:

A27027-53			
QUANTITY NOMENCLATURE PART NUMBE			
1	HOIST RING ASSEMBLY	A27027-36	
2	HOIST RING ASSEMBLY	A27027-37	
1	HOIST RING ASSEMBLY	A27027-50	
1	SLING ASSEMBLY	A27027-55	
1	STORAGE BOX ASSEMBLY		

A27027-54			
QUANTITY	NOMENCLATURE	PART NUMBER	
1	HOIST RING ASSEMBLY	A27027-36	
2	HOIST RING ASSEMBLY	A27027-37	
1	HOIST RING ASSEMBLY	A27027-42	
1	HOIST RING ASSEMBLY	A27027-43	
1	HOIST RING ASSEMBLY	A27027-50	
1	SLING ASSEMBLY	A27027-55	
1	STORAGE BOX ASSEMBLY		

WEIGHT: 49 lbs (22 kg)

DIMENSIONS: 8 x 12 x 25 inches (203 x 305 x 635 mm)

NOTE: A27027-53 supersedes A27027-47

A27027-54 supersedes A27027-48

A27027-48 supersedes A27027-40

A27027-47 supersedes A27027-34

A27027-40 replaces A27027-34

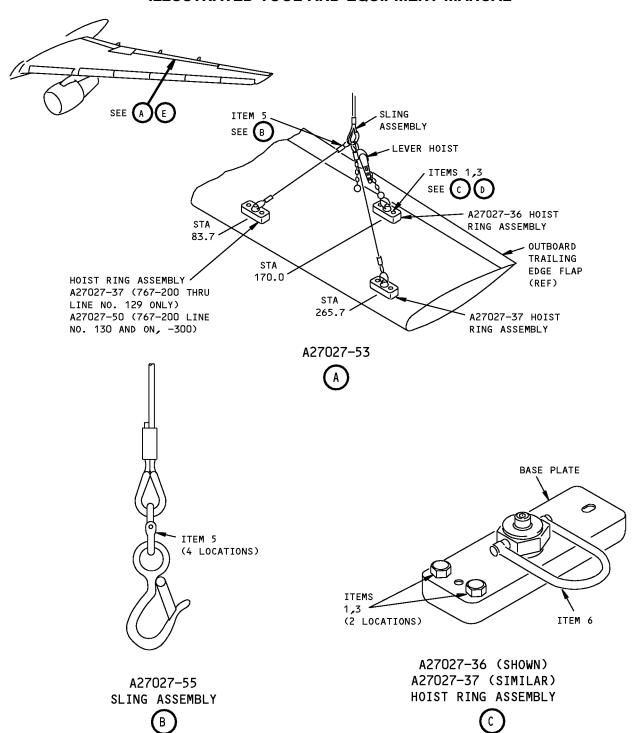
A27027-34 supersedes A27027-30

A27027-30 supersedes A27027-21

A27027-21 supersedes A27027-14

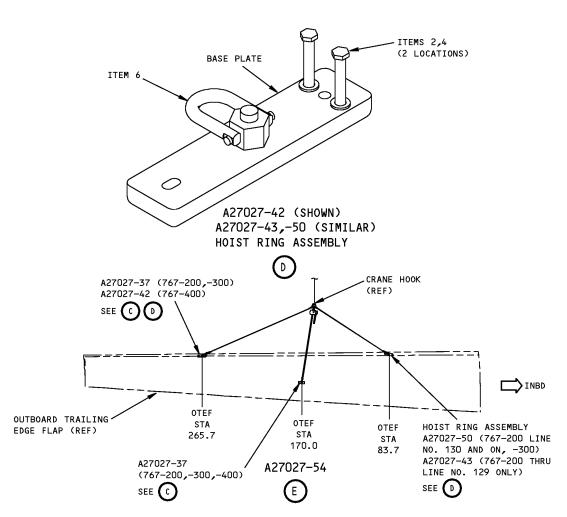
A27027-14 supersedes A27027-1





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





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

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1304-25	BOLT	
2	NAS6605-20	BOLT	
3	AN960-416	WASHER	
4	AN960-516	WASHER	
5	A-336-1/4	CONNECTING LINK	V75535
6	CL-1000-SHR-1	HOIST RING	V99862

PART NUMBER: A27036-22

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

DAMPER ELECTROMAGNETIC INTERFACE (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 767 ITEM is for information

and historical purposes only.

The A27036-22 test box is used on 767-200/300 airplanes equipped with the yaw damper electromagnetic interference (EMI) filter assembly (285T0374), typically prior to line number 242. The A27036-22 is also used on 767-200/300 airplanes equipped with the flap/slat electronic unit (FSEU) printed circuit assembly (PCA) (285T0287), typically prior to line number 794. The A27036-22 is a breakout box used to test the yaw damper EMI filter and the FSEU power supply for voltage tolerance and continuity. Refer to CMM 27-21-65 and CMM

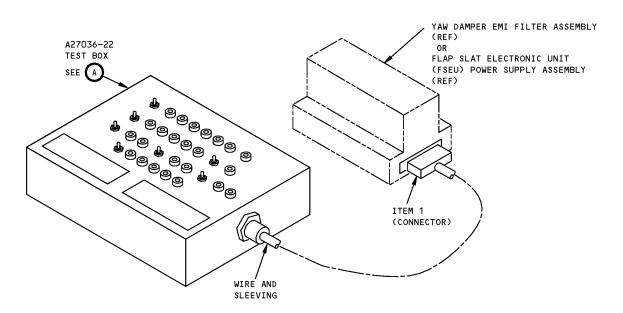
27-51-65 for complete usage instructions.

WEIGHT: 2 lbs (0.9 kg)

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

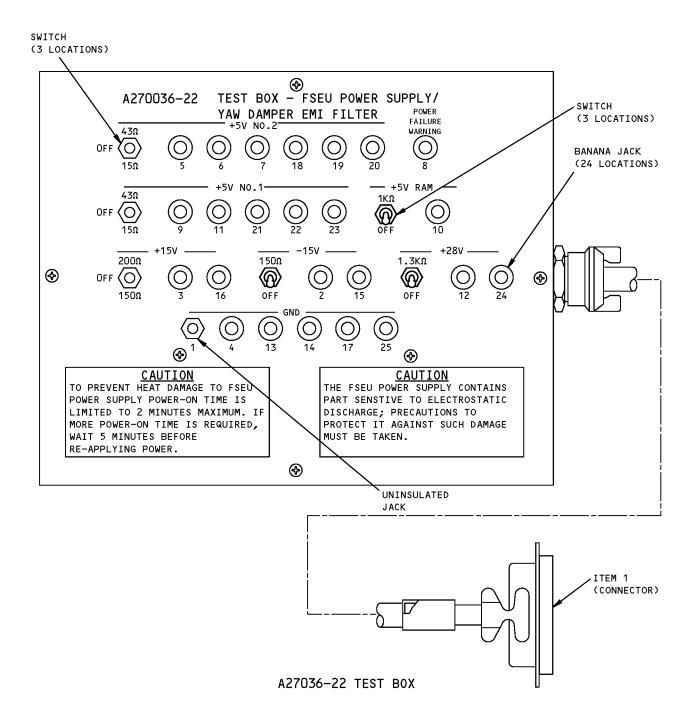
NOTE: A27036-22 supersedes A27036-16 for 767 usage.





FSEU Power Supply/Yaw Damper EMI Filter Test Box Figure 1 (Sheet 1 of 2)





FSEU Power Supply/Yaw Damper EMI Filter Test Box Figure 1 (Sheet 2 of 2)

27-50-04

Page 3 Oct 10/2006



REPAIRABLE/REPLACEABLE PARTS					
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE		
1	M24308/3-3	CONNECTOR J1	V71468		

PART NUMBER: A27040-18

NAME: CHECK EQUIPMENT - BEARING WIDTH

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This equipment is used to preload and measure the preloaded width of

bearings. Refer to CMM 27-51-22, CMM 27-51-25, CMM 27-51-34, CMM 27-51-35, CMM 27-51-37, CMM 27-51-39, CMM 27-51-40 AND CMM -27-51-44 for further usage instructions. This equipment consists of the following:

QUANTITY	NOMENCLATURE	PART NUMBER
1	WEIGHT ASSEMBLY	A27040-2
1	OUTER RACE SUPPORT	A27040-8
1	OUTER RACE SUPPORT	A27040-9
1	OUTER RACE SUPPORT	A27040-10
1	INNER RACE SUPPORT	A27040-19
1	INNER RACE SUPPORT	A27040-20
1	INNER RACE SUPPORT	A27040-21
1	INNER RACE SUPPORT	A27040-22
1	OUTER RACE SUPPORT	A27040-23
1	INSIDE MICROMETER CALIPER	700A
1	STORAGE BOX ASSEMBLY	A27040-29

APPLICATION BLOCK					
WEIGHT ASSEMBLY	OUTER RACE SUPPORT	INNER RACE SUPPORT ASSEMBLY	BEARING		
A27040-2	A27040-23	A27040-19	BACB10AZ30PP		
A27040-2	A27040-8	A27040-19	BACB10BA30PP		
A27040-2	A27040-9	A27040-20	BACB10BB45PP		
A27040-2	A27040-10	A27040-21	BACB10BA25PP		
A27040-2	A27040-23	A27040-22	BACB10BA35PP		

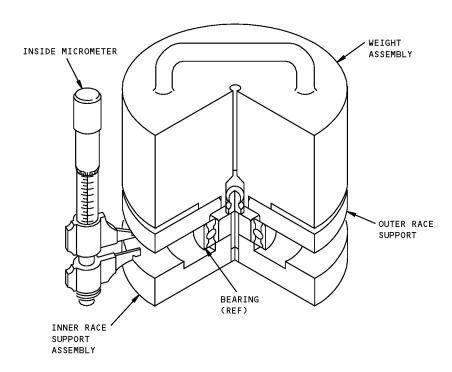
WEIGHT: 80 Lbs (36 kg)

DIMENSIONS: 7 x 14 x 24 inches (178 x 356 x 610 mm)



NOTE:

A27040-18 supersedes A27040-1.



CHECKING EQUIPMENT

Bearing Width Check Equipment Figure 1

PART NUMBER: A27055-1

NAME: FIXTURE - TRAILING EDGE FLAP DRIVE WORM GEAR SHIM THICKNESS

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool consists of a platform, indicator, and knurled head pin. The trailing

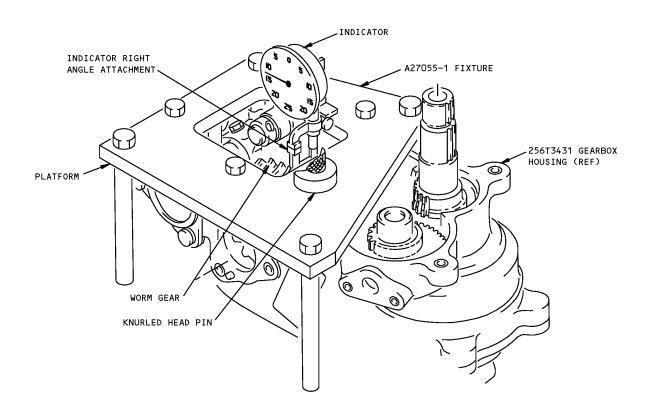
edge flap drive angle gearbox is secured to the fixture. The dial and knurled head pin are used to measure the required amount of shim material to provide proper mating of the worm gear and the worm gear shaft (not

shown).

WEIGHT: 16 lbs (7 kg)

DIMENSIONS: 9 x 13 x 13 inches (229 x 330 x 330 mm)





Trailing Edge Flap Drive Worm Gear Shim Thickness Fixture Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO. PART NO. NOMENCLATURE VENDOR CODE			
1	MS16998-45	SCREW	

PART NUMBER: A27019-8

NAME: RESTRAINT - AFT FLAP TO INBD TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to secure the aft flap to the inboard main trailing edge flap to

maintain both on the same plane during handling. The tool consists of a -9

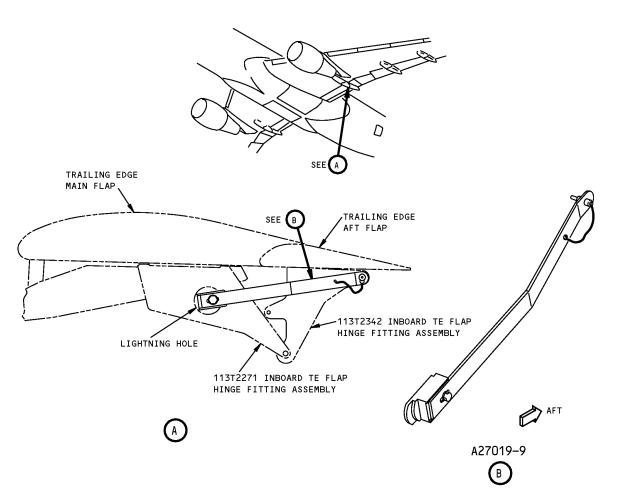
restraint assembly and a storage box.

WEIGHT: 5 lbs (2.2 kg)

DIMENSIONS: 3 x 5 x 27 inches (76 x 127 x 686 mm)

NOTE: A27019-8 supersedes A27019-1.





Aft Flap to Inboard Trailing Edge Flap Restraint Figure 1



PART NUMBER: F70300-1

NAME: ADAPTER - FLAP DRIVE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used with a customer furnished airmotor to fit on spline of torque

tube to extend or retract the trailing edge flaps when airplane power is not

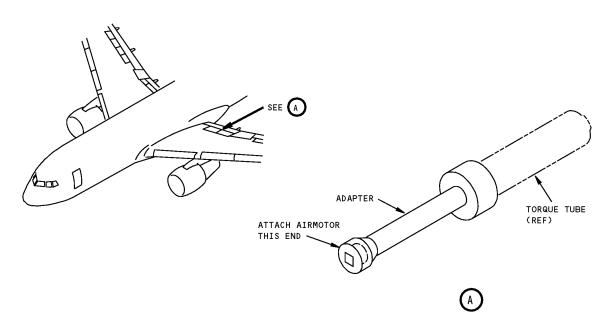
available.

The adapter is a modified 1/2-inch square drive extension bar with splined

sleeve weldment.

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

NOTE: F70300-1 replaces ST2583-1 for future procurement.



Flap Drive Adapter Figure 1

PART NUMBER: A27061-44, -46, -54

NAME: TOOL SET - TRAILING EDGE ROTARY ACTUATOR

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The -44 tool set is used during assembly and disassembly of the trailing edge

rotary actuator. The -46 and -54 torque brake equipment is used to check the torque limiter lockout on airplanes having PRR B12390 or SB 767-27-0115 incorporated. The -46 is applicable for the 9.5 inch torque limiter assembly only. The -54 is applicable for the 9.5 inch and 10.5 inch torque limiter assemblies. Refer to CMM 27-51-08 and CMM 27-51-10 for further usage instructions. This tool is used on all models of the 767-200,-300. The -44 tool set consists of 11 separate tools which are used as alignment tools, wrench adapters, fixtures and holding tools. The usage illustrations show each tool with the appropriate rotary actuator part(s). The -46 tool consists of a -47 spline adapter (9.5), a -48 support plate assembly, and a -49 storage box. The -54 tool consists of a -47 spline adapter (9.5), a -55 spline adapter assembly

(10.5), a -48 support plate assembly, and a -56 storage box.

WEIGHT: A27061-44 - 73 lbs (33 kg)

A27061-46 - 3 lbs (1.4 kg) A27061-54 - 4 lbs (1.8 kg)

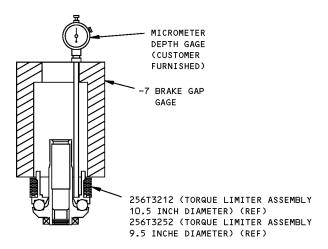
DIMENSIONS: A27061-44 - 7 x 16 x 26 inches (178 x 406 x 660 mm)

A27061-46 - 1 x 6 x 8 inches (25 x 152 x 203 mm) A27061-54 - 1 x 6 x 10 inches (25 x 152 x 254 mm)

NOTE: A27061-54 replaces A27061-46 for future procurement.

A27061-44 replaces A27061-1 for future procurement.

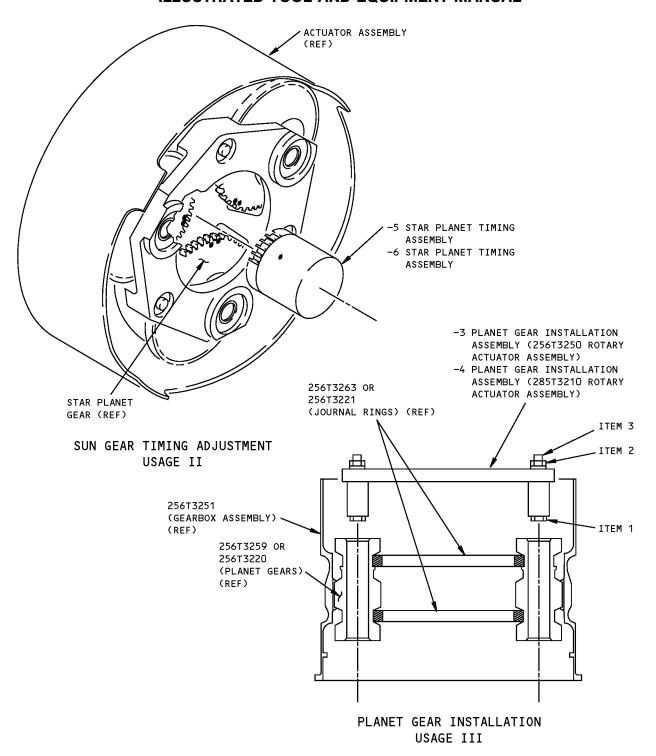




BRAKE PLATE MEASUREMENT USAGE I

Trailing Edge Rotary Actuator Tool Set Usage Figure 1 (Sheet 1 of 5)

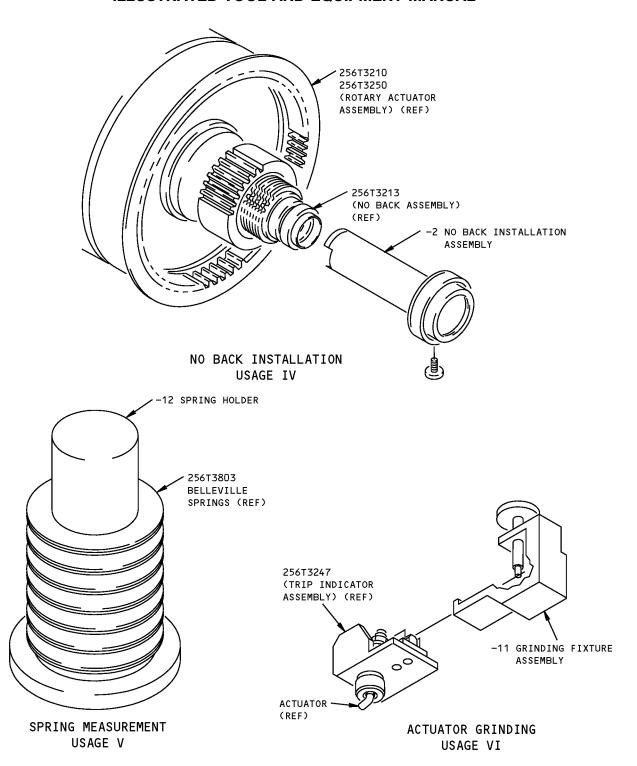




A27061-44 TOOL SET

Trailing Edge Rotary Actuator Tool Set Usage Figure 1 (Sheet 2 of 5)

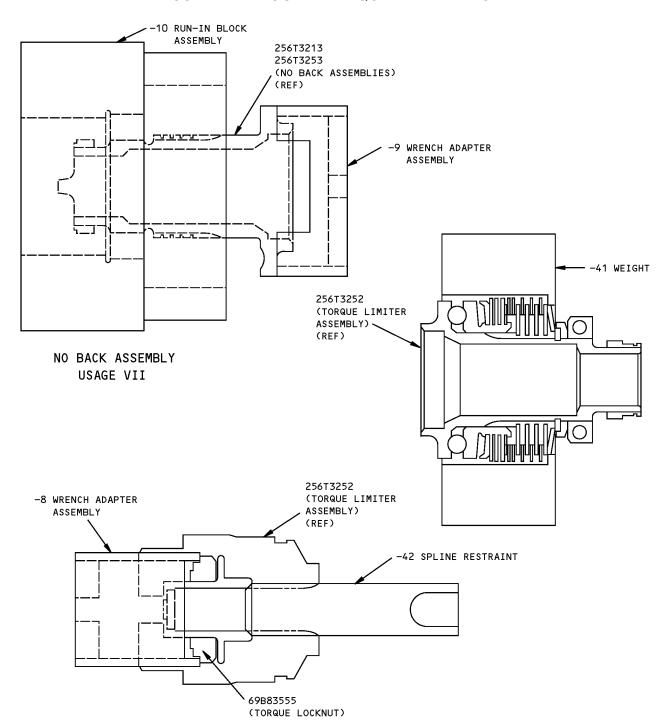




A27061-44 TOOL SET

Trailing Edge Rotary Actuator Tool Set Usage Figure 1 (Sheet 3 of 5)



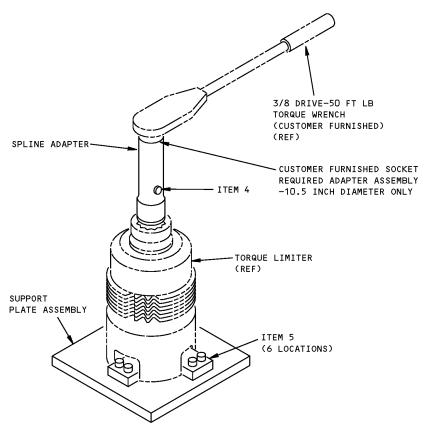


TORQUE LOCKNUT INSTALLATION USAGE VIII

A27061-44 TOOL SET

Trailing Edge Rotary Actuator Tool Set Usage Figure 1 (Sheet 4 of 5)





A27061-46,-54 TORQUE BRAKE EQUIPMENT

Trailing Edge Rotary Actuator Tool Set Usage Figure 1 (Sheet 5 of 5)

	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	AN4-20	BOLT		
2	AN960-416	WASHER		
3	MS21044N4	NUT		
4	MS16562-37	SPRING PIN		
5	NAS1352-3-10	CAP SCREW		

PART NUMBER: A27046-3, -4, -8, -99, -140, -141, -160, -163, -176, -177, -191, -192

NAME: TEST FIXTURE - POWER DRIVE COMPONENTS FLIGHT CONTROL

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used for the backlash check of the TE flap drive gearbox

assemblies. Refer to CMM 27-51-22, CMM 27-51-25, CMM 27-51-34, CMM 27-51-35, CMM 27-51-37, CMM 27-51-39, CMM 27-51-40 and CMM 27-51-44 for further usage instructions. The -8 test equipment is used in conjunction with -3, -4, -99, -140, -141, -160, -163, -176, -177, -191 and -192 test fixtures. The -141 and -163 are used on the 767-200/-300 airplanes. This tool consists of -8 test equipment, -3, -4, -99, -140, -141, -160, -163, -176, -177, -191 and -192 test fixtures. The -8 test equipment consists of two -53 tower assemblies, a -54 crank assembly, two -55 brackets, a -56 clamp assembly, a -57 bracket, -58 clamp assembly, a -59 collet assembly, two -126 weight assemblies, a -113 clamp assembly, a -118 clamp assembly, a -123 collar, a -124 collar and four

hand knobs.

WEIGHT: A27046-3 - 30 lbs (13.6 kg)

A27046-4 - 31 lbs (14.1 kg) A27046-8 - 75 lbs (34 kg) A27046-99 - 50 lbs (22.6 kg) A27046-140 - 28 lbs (12.7 kg) A27046-141 - 45 lbs (20.4 kg) A27046-160 - 37 lbs (16.7 kg) A27046-163 - 50 lbs (22.6 kg) A27046-176 - 30 lbs (13.6 kg) A27046-177 - 30 lbs (13.6 kg) A27046-191 - 45 lbs (20.4 kg) A27046-192 - 50 lbs (22.6 kg)

DIMENSIONS: A27046-3 - 7 x 15 x 17 inches (178 x 381 x 432 mm)

A27046-4 - 10 x 17 x 17 inches (254 x 432 x 432 mm)
A27046-8 - 5 x 18 x 18 inches (127 x 457 x 457 mm)
A27046-99 - 10 x 20 x 30 inches (254 x 508 x 762 mm)
A27046-140 - 7 x 10 x 23 inches (178 x 254 x584 mm)
A27046-141 - 9 x 15 x 26 inches (229 x 381 x 660 mm)
A27046-160 - 10 x 16 x 19 inches (254 x 406 x 483 mm)
A27046-163 - 10 x 17 x 27 inches (254 x 432 x 686 mm)
A27046-176 - 12 x 15 x 26 inches (305 x 381 x 660 mm)
A27046-191 - 9 x 15 x 26 inches (229 x 381 x 660 mm)
A27046-192 - 10 x 17 x 27 inches (254 x 432 x 686 mm)

NOTE: A27046-192 replaces A27046-163 for future procurement.

A27046-191 replaces A27046-141 for future procurement.

A27046-177 supersedes A27046-162.

A27046-176 supersedes A27046-161.

A27046-163 supersedes A27046-81.

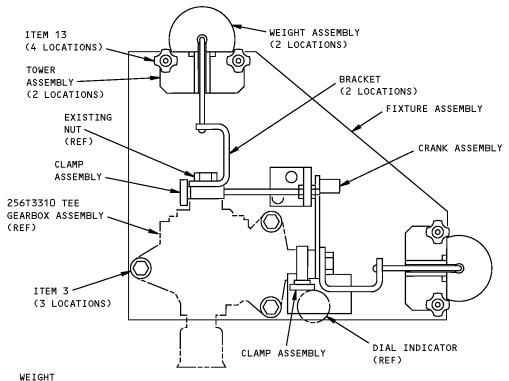
A27046-160 supersedes A27046-7.

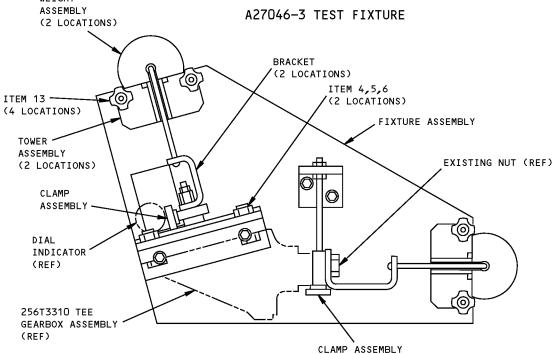
A27046-141 supersedes A27046-1.

A27046-140 supersedes A27046-2.

A27046-99 supersedes A27046-5.



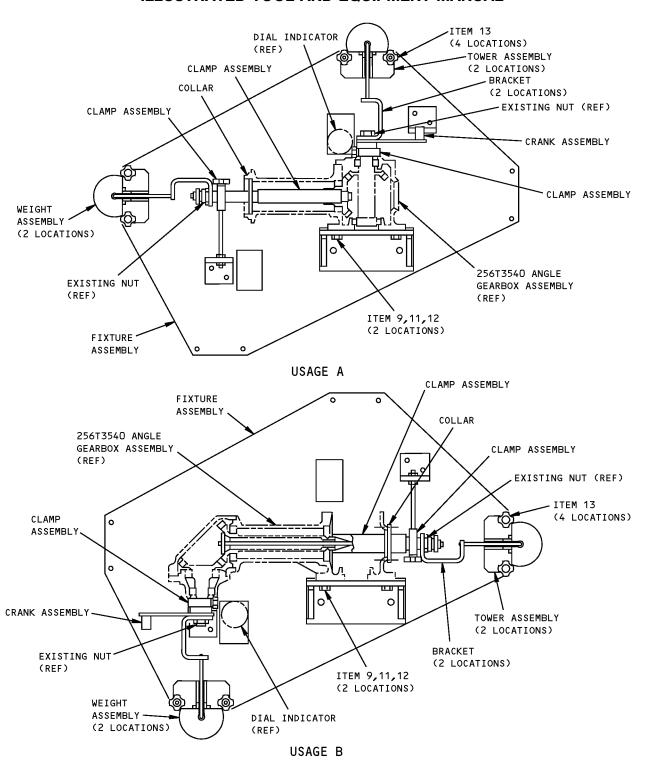




A27046-4 TEST FIXTURE

Flight Control Power Drive Components Test Fixture Figure 1 (Sheet 1 of 6)

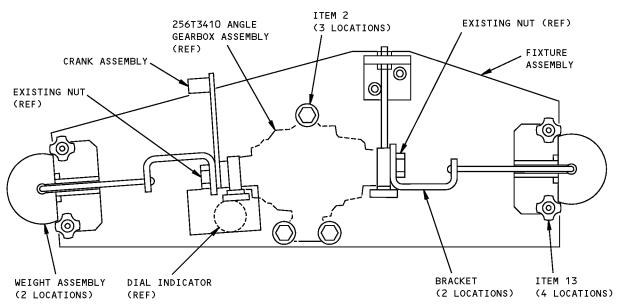




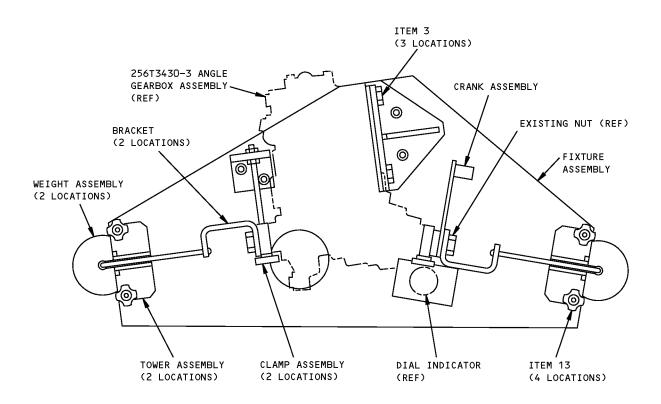
A27046-99 TEST FIXTURE

Flight Control Power Drive Components Test Fixture Figure 1 (Sheet 2 of 6)





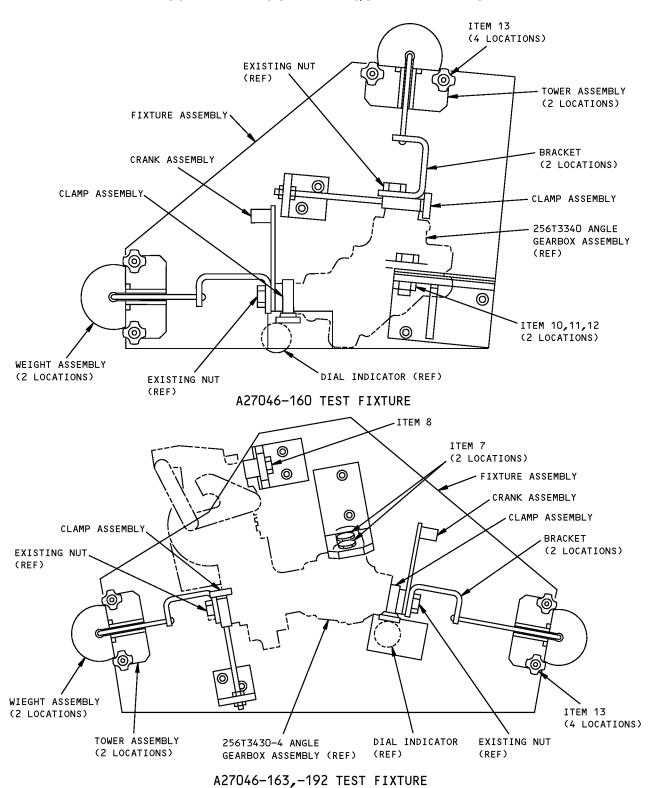
A27046-140 TEST FIXTURE



A27046-141,-191 TEST FIXTURE

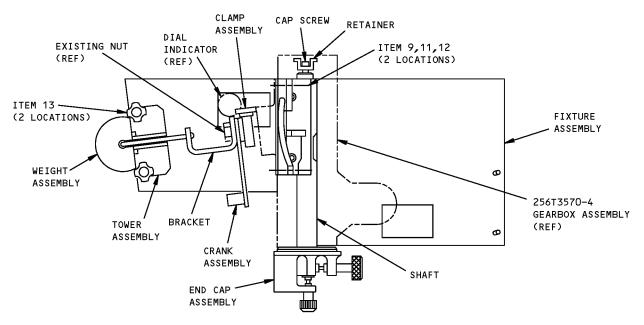
Flight Control Power Drive Components Test Fixture Figure 1 (Sheet 3 of 6)



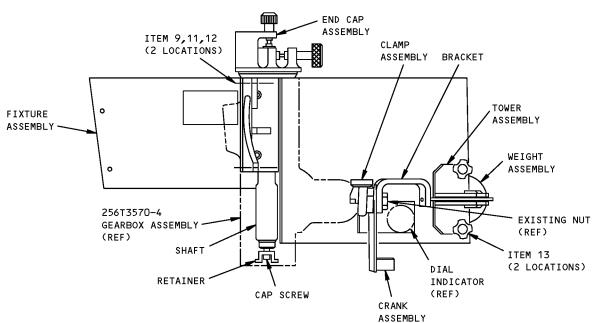


Flight Control Power Drive Components Test Fixture Figure 1 (Sheet 4 of 6)





MEASUREMENT A BACKLASH MEASUREMENT (OUTPUT SIDE)

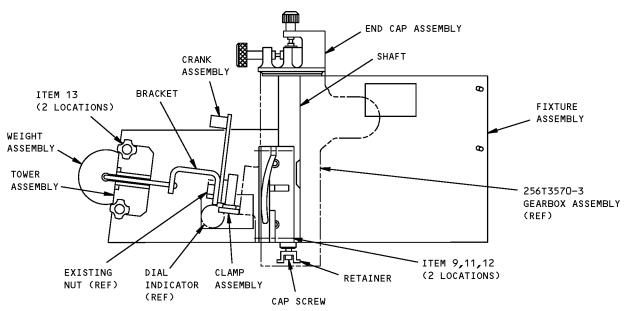


MEASUREMENT B
BACKLASH MEASUREMENT
(INPUT SIDE)

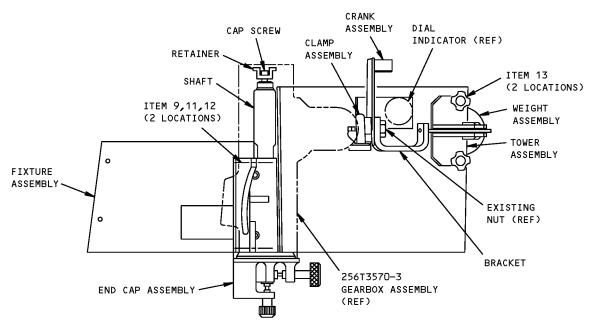
A27046-176 TEST FIXTURE

Flight Control Power Drive Components Test Fixture Figure 1 (Sheet 5 of 6)





MEASUREMENT A
BACKLASH MEASUREMENT
(OUTPUT SIDE)



MEASUREMENT B
BACKLASH MEASUREMENT
(INPUT SIDE)

A27046-177 TEST FIXTURE

Flight Control Power Drive Components Test Fixture Figure 1 (Sheet 6 of 6)



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	AN4-7A	BOLT	
2	AN5-6A	BOLT	
3	AN5-7A	BOLT	
4	AN4-13A	BOLT	
5	MS35650-3252	NUT	
6	AN960-416L	WASHER	
7	AN4-5A	BOLT	
8	AN4-14A	BOLT	
9	AN5-11A	BOLT	
10	AN5-12A	BOLT	
11	MS35650-3312	NUT	
12	AN960-516L	WASHER	
13	CL-8-HK-8	HAND KNOB	V96027

PART NUMBER: A27074-128, -146

NAME: LOCK SET - INBOARD AND OUTBOARD FLAP LINKAGE, TE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to lock the inboard and outboard flaps during flap drive

linkage removal or other maintenance operations. This tool is used on 767-200 and -300 air planes. Refer to AMM 27-51 for further usage instructions. Each of -128 and -146 consists of a -2 outboard flap outboard linkage lock assembly, a -3 outboard flap inboard linkage lock assembly, a -6 inboard flap

outboard linkage lock assembly, a -7, a -8, a -10 and a -115 bracket assemblies, and a -129 catch assembly. Also -128 includes a -123 and a -124

inboard flap inboard linkage lock assemblies, a -11 left hand wing bracket

assembly, a -109 right wing bracket assembly, and 2 -141 c-clamp

assemblies. Also -146 includes a -147 and a -148 inboard flap inboard linkage lock assemblies, a -150 left wing bracket assembly, a -151 right wing bracket assembly, 2 -152 c-clamp assemblies and has a -149 storage box assembly.

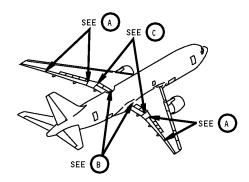
WEIGHT: 170 lbs (77 kg)

DIMENSIONS: 18 x 36 x 36 inches (457 x 914 x 914 mm)

NOTE: A27074-146 replaces A27074-128 for future procurement.

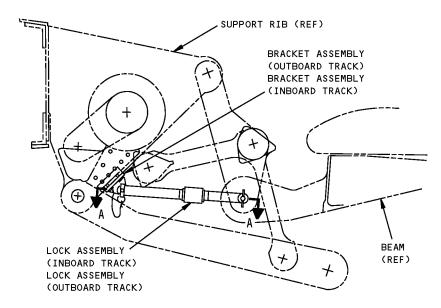
A27074-128 supersedes A27074-1, -120.



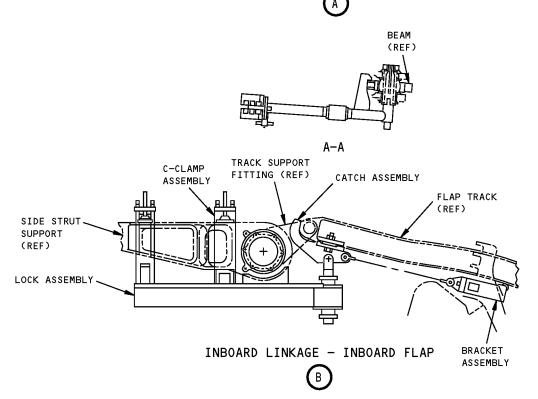


Inboard and Outboard Trailing Edge Flap Linkage Lock Set Figure 1 (Sheet 1 of 3)



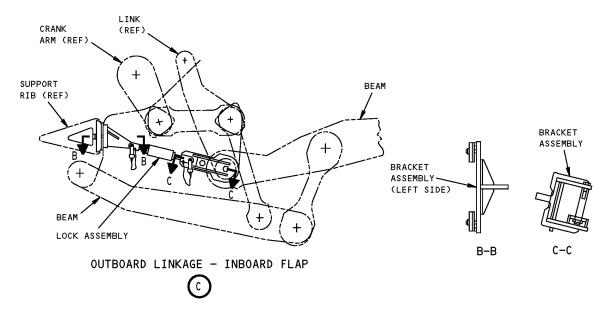


INBOARD AND OUTBOARD LINKAGE - OUTBOARD FLAP



Inboard and Outboard Trailing Edge Flap Linkage Lock Set Figure 1 (Sheet 2 of 3)





Inboard and Outboard Trailing Edge Flap Linkage Lock Set Figure 1 (Sheet 3 of 3)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	AN960-516	WASHER	
2	AN960-616	WASHER	
3	AN960-815	WASHER	
4	CL-21-KA-10.0LR	LANYARD	V99862
5	CL-21-KA-12.0LR	LANYARD	V99862
6	MS16997-62	BOLT	
7	MS35650-3382	NUT	
8	MS35650-3392	NUT	



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
9	MS90725-40	BOLT	
10	MS90725-66	BOLT	
11	MS90725-115	DELETED	
11A	AN8-17A	BOLT	
12	NAS1336C2C13	BALL LOCK PIN	
13	NAS1336C2C15	BALL LOCK PIN	
14	NAS1336C5C11D	BALL LOCK PIN	
15	NAS1354C2C10	BALL LOCK PIN	
16	NAS1354C2C12	BALL LOCK PIN	

PART NUMBER: A27079-78, -89, -96

NAME: TEST EQUIPMENT - POWER DRIVE UNIT, TE FLAP AND LE SLAT DRIVE

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27079-78 test equipment is used on all 767-200 and -300 airplanes. The

A27079-89 is used on 767-200 and -300 airplanes using 256T2710 outboard leading edge slat power drive unit. The A27079-96 is used on 767-200, -300, and -400 airplanes using 256T5505 and 256T2710 outboard leading edge slat power drive unit. This tool is used in conjunction with A27081 test set to functionally test trailing edge flap power drive units, and inboard and outboard leading edge slat power drive units. Refer to CMM 27-51 -14, CMM 27-81-41, CMM 27-81-82, CMM 27-81-83, and current A27079 drawing for

further usage instructions.

The A27079-78, -89, and -96 consists of the following:

	A27079-78		
QUANTITY	NOMENCLATURE	PART NUMBER	
1	SUPPORT ASSEMBLY - POWER DRIVE UNIT, INBOARD LE SLAT	A27079-3	
1	LEVER SUPPORT ASSEMBLY	A27079-4	
1	SUPPORT ASSEMBLY-POWER DRIVE UNIT, OUTBOARD LE SLAT	A27079-5	
1	LEVER SUPPORT ASSEMBLY	A27079-6	
1	SUPPORT ASSEMBLY-POWER DRIVE UNIT, TE FLAP	A27079-7	
1	SPLINE	A27079-10	
1	SPLINE	A27079-11	
1	COUPLING	A27079-18	
1	FIXTURE ASSEMBLY (NOT BOXED)	A27079-79	
1	GAUGE ASSEMBLY	A27079-85	
2	KEY-MACHINE	MS20066-257	
1	STORAGE BOX		

A27079-89		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SUPPORT ASSEMBLY - POWER DRIVE UNIT, INBOARD LE SLAT	A27079-3
1	LEVER SUPPORT ASSEMBLY	A27079-4
1	SUPPORT ASSEMBLY-POWER DRIVE UNIT, OUTBOARD LE SLAT	A27079-5



	A27079-89		
QUANTITY	NOMENCLATURE	PART NUMBER	
1	LEVER SUPPORT ASSEMBLY	A27079-6	
1	SUPPORT ASSEMBLY-POWER DRIVE UNIT TE FLAP	A27079-7	
1	SPLINE	A27079-10	
1	SPLINE	A27079-11	
1	COUPLING	A27079-18	
1	GAUGE ASSEMBLY	A27079-85	
1	FIXTURE ASSEMBLY (NOT BOXED)	A27079-90	
2	KEY-MACHINE	MS20066-257	
1	STORAGE BOX		

A27079-96		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SUPPORT ASSEMBLY - POWER DRIVE UNIT, INBOARD LE SLAT	A27079-3
1	LEVER SUPPORT ASSEMBLY	A27079-4
1	SUPPORT ASSEMBLY-POWER DRIVE UNIT, OUTBOARD LE SLAT	A27079-5
1	LEVER SUPPORT ASSEMBLY	A27079-6
1	SUPPORT ASSEMBLY-POWER DRIVE UNIT, TE FLAP	A27079-7
1	SPLINE	A27079-10
1	SPLINE	A27079-11
1	COUPLING	A27079-18
1	GAUGE ASSEMBLY	A27079-85
1	FIXTURE ASSEMBLY	A27079-90
1	SUPPORT ASSEMBLY-POWER DRIVE UNIT, OUTBOARD LE SLAT	A27079-97
8	WASHER	A27079-98
2	KEY-MACHINE	MS20066-257
4	NUT	MS51967-20
1	STORAGE BOX	

WEIGHT: A27079-79, -90 fixture assembly - 616 lbs (279 kg)

Remaining parts (excluding box) - 430 lbs (195 kg)

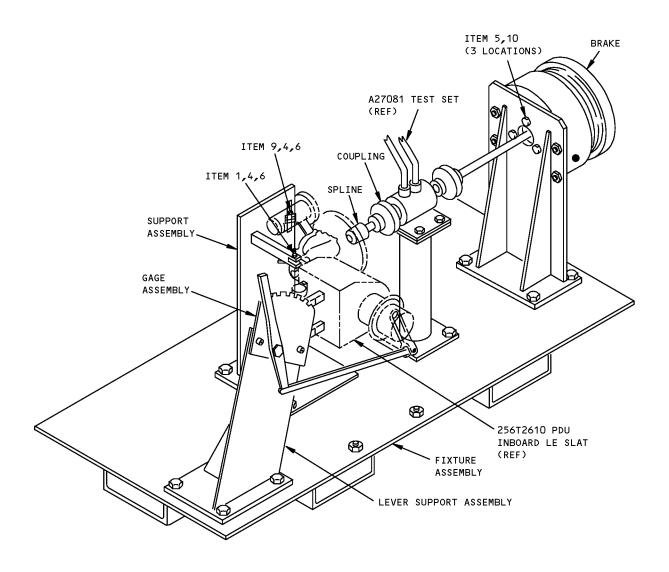
DIMENSIONS: A27079-79, -90 fixture assembly - 27 x 31 x 67 inches (686 x 787 x 1702 mm)

Remaining parts (boxed) - 20 x 50 x 70 inches (508 x 1270 x 1778 mm)

NOTE:

A27079-96 replaces A27079-89 for future procurement. A27079-89 replaces A27079-78 for future procurement. A27079-78 supersedes A27079-71. A27079-71 supersedes A27079-1.



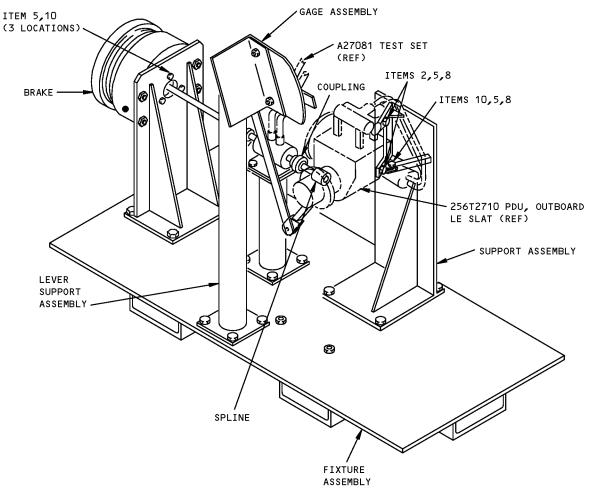


A27079-78,-89,-96 INBOARD LEADING EDGE SLAT POWER DRIVE UNIT

Inboard Leading Edge Slat Power Drive Unit Test Equipment - A27079-78, -89, -96 Figure 1

27-50-12 Page 4 Apr 10/2007





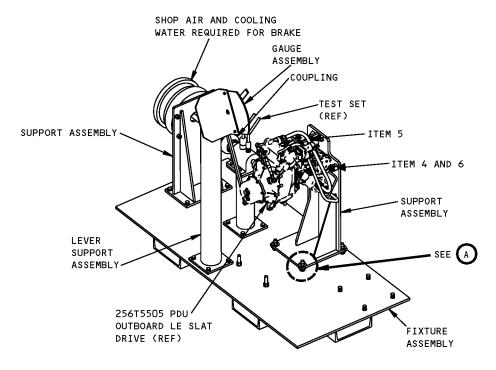
A27079-78,-89 OUTBOARD LEADING EDGE SLAT POWER DRIVE UNIT

Outboard Leading Edge Slat Power Drive Unit Test Equipment - A27079-78, -89 Figure 2

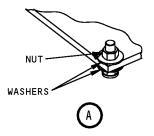
27-50-12 Page 5 Apr 10/2007

Page 5





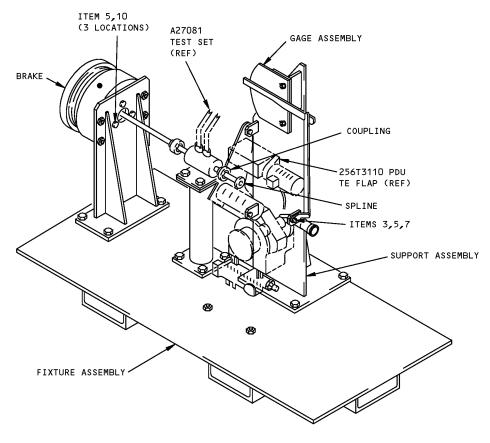
A27079-96 OUTBOARD LEADING EDGE SLAT POWER DRIVE UNIT



Outboard Leading Edge Slat Power Drive Unit Test Equipment - A27079-96 Figure 3

27-50-12 Page 6 Apr 10/2007





A27079-78,-96 TE FLAP POWER DRIVE UNIT

TE Flap Power Drive Unit Test Equipment Test Equipment - A27079-78, -96 Figure 4

	REPAIRABLE/REPLACEABLE PARTS		
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	AN4-11A	BOLT	
2	AN5-12A	BOLT	
3	AN5-17A	BOLT	
4	AN960-416	FLAT WASHER	
5	AN960-516	FLAT WASHER	
6	MS51968-3	NUT	
7	MS51968-5	NUT	
8	MS51968-6	NUT	



	REPAIRABLE/REPLACEABLE PARTS		
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
9	AN4-12A	BOLT	
10	AN5-11A	BOLT	

PART NUMBER: A27071-48, -84, -123

NAME: TEST EQUIPMENT - ROTARY ACTUATOR TRAILING EDGE FLAP

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27071-48 or A27071-84 test equipment is used on 767-200 and -300

airplanes. The A27071-123 test equipment is used on all 767 airplanes. These tools are used in conjunction with the A27081 readout and control equipment to test trailing rotary edge actuators (9.5 diameter, 10.5 diameter, and 10.6 diameter). Refer to CMM 27-51-08, CMM 27-51-10, CMM 27-51-48, CMM 27-51-49, and current A27071 drawing for additional usage instructions. The

A27071-48, -84, and -123 tools consists of the following:

A27071-48		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FIXTURE ASSEMBLY (NOT BOXED)	A27071-49
1	RING BRACKET ASSEMBLY (10.5)	A27071-3
1	RING BRACKET ASSEMBLY (9.5)	A27071-4
1	SPLINE ASSEMBLY (4.0 PITCH) (10.5)	A27071-54
1	SPLINE ASSEMBLY (3.75 PITCH) (9.5)	A27071-55
4	CLAMP	A27071-33
4	BOLT	AN8-15
4	WASHER	AN960-816
1	MACHINE KEY	A27071-75
1	STORAGE BOX ASSEMBLY	A27071-7

A27071-84					
QUANTITY	NOMENCLATURE	PART NUMBER			
1	FIXTURE ASSEMBLY (NOT BOXED)	A27071-85			
1	RING BRACKET ASSEMBLY (10.5)	A27071-3			
1	RING BRACKET ASSEMBLY (9.5)	A27071-4			
1	SPLINE ASSEMBLY (4.0 PITCH) (10.5)	A27071-54			
1	SPLINE ASSEMBLY (3.75 PITCH) (9.5)	A27071-55			
4	CLAMP	A27071-33			
4	BOLT	AN8-15			
4	WASHER	AN960-816			
1	MACHINE KEY	A27071-75			



A27071-84					
QUANTITY	NOMENCLATURE	PART NUMBER			
1	STORAGE BOX ASSEMBLY	A27071-86			

A27071-123					
QUANTITY	NOMENCLATURE	PART NUMBER			
1	FIXTURE ASSEMBLY (NOT BOXED)	A27071-85			
1	RING BRACKET ASSEMBLY (10.5)	A27071-3			
1	RING BRACKET ASSEMBLY (9.5)	A27071-4			
1	SPLINE ASSEMBLY (4.0 PITCH) (10.5)	A27071-54			
1	SPLINE ASSEMBLY (3.75 PITCH) (9.5)	A27071-55			
1	MACHINE KEY	A27071-75			
1	FIXTURE ASSEMBLY	A27071-91			
1	MOUNTING PLATE ASSEMBLY	A27071-92			
1	MOUNTING PLATE ASSEMBLY	A27071-93			
1	RING BRACKET ASSEMBLY	A27071-94			
1	RING BRACKET ASSEMBLY	A27071-95			
1	INPUT ADAPTER ASSEMBLY	A27071-96			
4	CLAMP	A27071-33			
4	CAP SCREW	NAS1352-8-24			
1	OUTPUT ADAPTER	A27071-97			
1	OUTPUT ADAPTER	A27071-98			
4	BOLT	AN8-15			
4	WASHER	AN960-816			
1	STORAGE BOX ASSEMBLY	A27071-124			

WEIGHT: A27071-48 and A27071-84 - 200 lbs (91 kg)

A27071-123 - 610 lbs (277 kg)

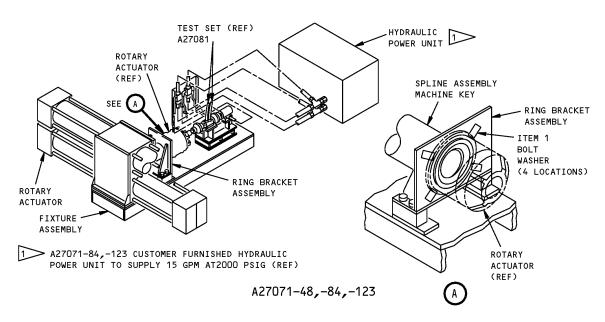
DIMENSIONS: A27071-48 - 20 x 20 x 64 inches (508 x 508 x 1626 mm)

A27071-84 - 27 x 64 x 69 inches (686 x 1626 x 1753 mm) A27071-123 -18 x 24 x 50 inches (457 x 610 x 1270 mm)

NOTE: A27071-84 replaces A27027-48 for future procurement

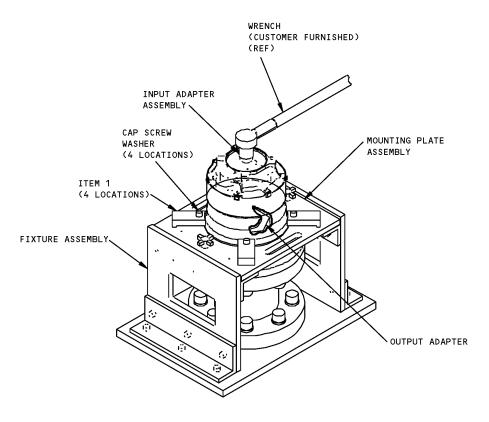
A27071-123 supersedes A27027-90 for future procurement





Trailing Edge Flap Rotary Actuator Test Equipment Figure 1 (Sheet 1 of 2)





A27071-123

Trailing Edge Flap Rotary Actuator Test Equipment Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS						
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE			
1	A27071-33	CLAMP				

PART NUMBER: A27093-1, -27

NAME: TEST EQUIPMENT - TE FLAPS ASYMMETRY FAULT ISOLATION

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27093-1 is used on 767-200,-200ER,-300 airplanes with a flap slat

electronic unit (FSEU) part number 285T0049-28 or lower dash number. The A27093-1 consists of a -2 test box, a -5 cable assembly and a -6 cable assembly and a storage box. The -2 test box and -5 cable assembly are used to test transmitters 1, 3 or 4. The -2 test box and -6 cable assembly are used to test transmitter 2. The A27093-27 consists of a -34 test box and a -28 cable assembly and storage box. The -34 test box and -28 cable assembly are used to test transmitters 1, 4, 5 and 8. The A27093-27 is used on 767 airplanes with a FSEU part number 285T0049-32 through -53. After 767 airplane line number 798, all 767's (built with FSEU 285T0049-63) incorporate a built-in flap skew detection circuitry and do not require the A27093 test equipment. The A27093-

1 and -27 equipment are used during installation of the flap position transmitter and transmitter gearbox. They are also used for fault isolation during trailing edge flap asymmetry problems. Refer to AMM 27-51-00 OR

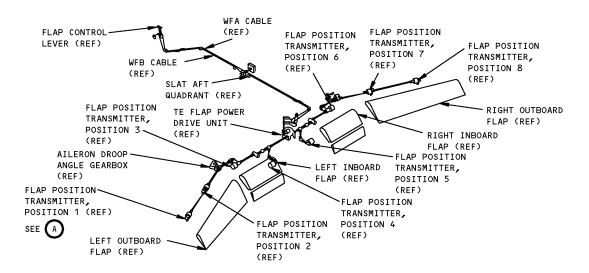
AMM 27-51-45 for complete usage information.

WEIGHT: 3 lbs (1.4 kg)

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

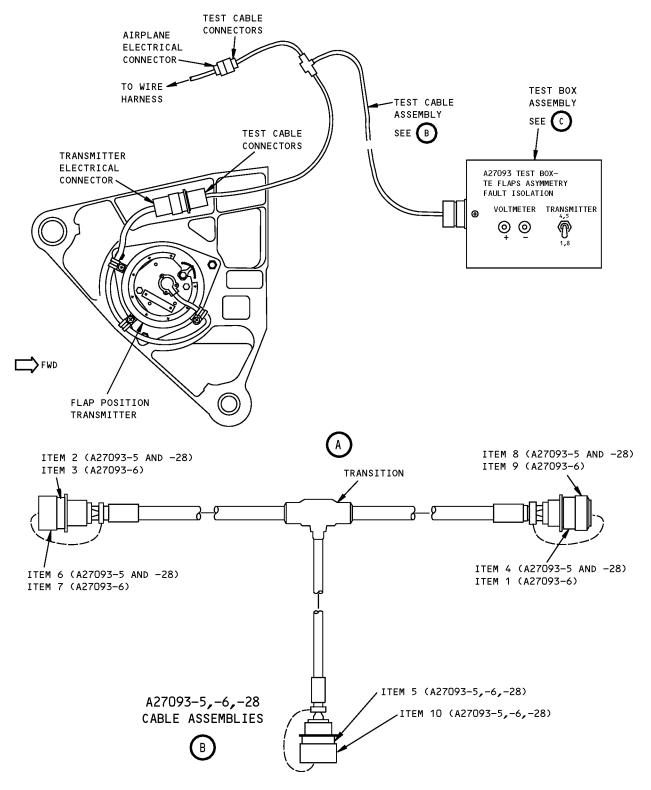
NOTE: A27093-27 supersedes A27093-23.





TE Flaps Asymmetry Fault Isolation Test Equipment Figure 1 (Sheet 1 of 3)

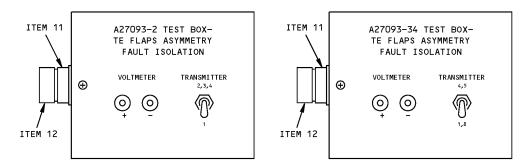




TE Flaps Asymmetry Fault Isolation Test Equipment Figure 1 (Sheet 2 of 3)

27-50-14





A27093-2 AND -34 TEST BOX ASSEMBLIES



TE Flaps Asymmetry Fault Isolation Test Equipment Figure 1 (Sheet 3 of 3)

	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	VENDOR CODE		
1	M83723/87R147N	CONNECTOR (OPT TO MS24266R14T7PN)		
2	M83723/82R1814N	CONNECTOR (OPT TO MS24264R18T14SN)		
3	M83723/82R147N	CONNECTOR (OPT TO MS24264R14T7SN)		
4	M83723/87R1814N	CONNECTOR (OPT TO MS24266R18T14PN)		
5	M83723/75R147N	CONNECTOR (OPT TO MS24266R14B7S)		
6	M83723/60-118AC	CAP		
7	M83723/60-114AC	CAP		
8	M83723/59-118AC	CAP		
9	M83723/59-114AC	CAP		
10	M83723/59-214AC	CAP		
11	M83723/72R147N	CONNECTOR (OPT TO MS24264R14B7P)		
12	M83723/60-214AC	CAP		

PART NUMBER: A27099-1

NAME: SHAFT CLAMP - TE FLAP DRIVE

AIRPLANE MAINTENANCE: YES

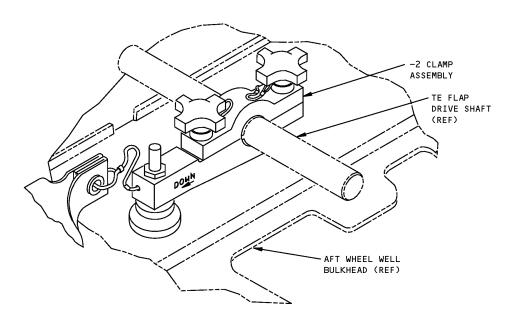
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: Clamps to prevent the flap drive shafts from rotating after removal and before

installation of the flap power drive unit or the power drive unit gearbox. The shaft clamp consists of 2 -2 clamp assemblies contained in a box assembly.

WEIGHT: 1 lb (0.45 kg) (excluding box)

DIMENSIONS: 2 x 4 x 9 inches (51 x 102 x 229 mm) (excluding box)



TE Flap Drive Shaft Clamp Figure 1

PART NUMBER: A27105-9

NAME: AUXILIARY DETENT - FLAP ADJUSTMENT ASSEMBLY

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to set flap control lever at 2° aft of zero detent for adjustment

of flap rigging. Refer to Airplane Maintenance Manual 27-51-00 for complete usage instructions. This tool consists of a -10 auxiliary detent assembly and -

3 storage box assembly.

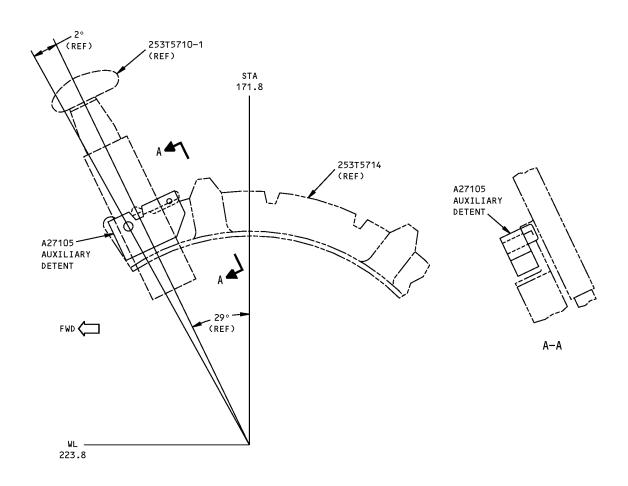
WEIGHT: 5 oz (0.14 kg) (excluding box)

DIMENSIONS: .75 x .75 x 1.56 inches (19 x 19 x 40 mm)

NOTE: A27105-9 supersedes A27105-6

A27105-6 supersedes A27105-1





Flap Adjustment Assembly Auxiliary Detent Figure 1

PART NUMBER: A27107-1

NAME: DUMMY LINK SET - FLAP LOAD RELIEF ACTUATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to replace inoperable T.E. flap load relief actuator. This tool

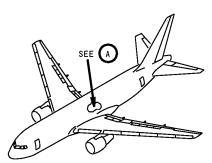
is comprised of an extension and retraction link assemblies and a storage

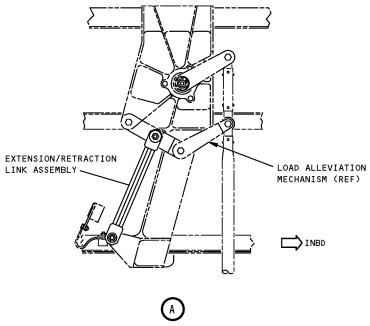
box assembly.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: .75 x 2.5 x 11.1 inches (19 x 63 x 282 mm)







Flap Load Relief Actuator Dummy Link Set Figure 1



PART NUMBER: J27054-1

NAME: TEST EQUIPMENT - LEAKAGE TEST

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

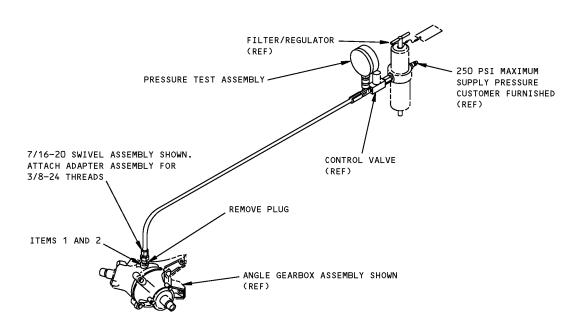
USAGE & DESCRIPTION: This tool is used to test the pressure of actuator transmission gearbox

assemblies. Refer to CMM 27-51-48, CMM 27-51-49, CMM 27-81-44 and CMM 27-81-62. This tool is used on 767-200/-300 airplanes line number 758 and on. This tool is also used on 767-400ER. This tool consists of a pressure test

assembly, an adapter assembly and a storage box.

WEIGHT: 5 lbs (2.3 kg) (excluding box)

DIMENSIONS: 15 x 19 inches (381 x 483 mm) (excluding box)



Leakage Test - Test Equipment Figure 1

REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	NAS1612-3	PACKING		
2	NAS1612-4	PACKING		

PART NUMBER: A27118-90

NAME: LOCK EQUIPMENT - INBOARD AND OUTBOARD TE, FLAP LINKAGE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to lock the inboard and outboard flaps during flap drive

linkage removal or other maintenance operations. Refer to AMM 27-51-02, AMM 27-51-04, AMM 27-51-21 and current A27118 drawing for further usage instructions. This tool is used on the 767-400 airplanes line number 758 and

on. This tool consists of the following:

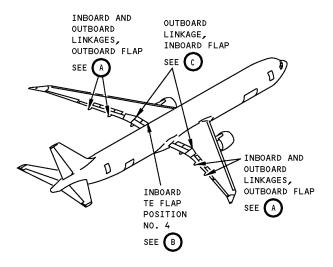
QUANTITY	NOMENCLATURE	PART NUMBER
1	INBOARD BLOCK ASSEMBLY	A27118-6
1	OUTBOARD BLOCK ASSEMBLY	A27118-92
1	OUTBOARD BLOCK ASSEMBLY	A27118-93
1	INBOARD BLOCK ASSEMBLY	A27118-94
1	INBOARD BLOCK ASSEMBLY	A27118-100
1	OUTBOARD BLOCK ASSEMBLY	A27118-95
1	END ASSEMBLY	A27118-96
1	END ASSEMBLY	A27118-97
2	BOLT	A27118-53 *[1]
2	WASHER	A27118-60 *[1]
2	TOP PLATE ASSEMBLY	A27118-99
1	CLAMP ASSEMBLY	A27118-72
1	ROD ASSEMBLY	A27118-71
1	ROD ASSEMBLY	A27118-73
1	ROD ASSEMBLY	A27118-74
1	ROLLER ASSEMBLY	A27118-77
1	CENTER ASSEMBLY	A27118-78
1	TURNBUCKLE ASSEMBLY	A27118-52
1	ARM ASSEMBLY	A27118-30
1	STORAGE BOX	

^{*[1]} STOW -53 BOLTS AND -60 WASHERS ON -95

WEIGHT: 25 lbs (11.3 kg) (excluding box)

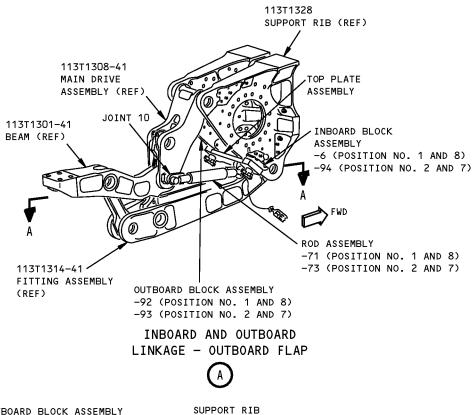
DIMENSIONS: 12 x 20 x 30 inches (305 x 508 x 762 mm) (excluding box)

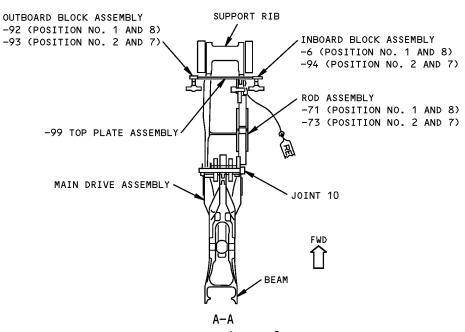
NOTE: A27118-90 supersedes A27118-1.



Flap Linkage Inboard and Outboard Trailing Edge Lock Equipment Figure 1 (Sheet 1 of 4)



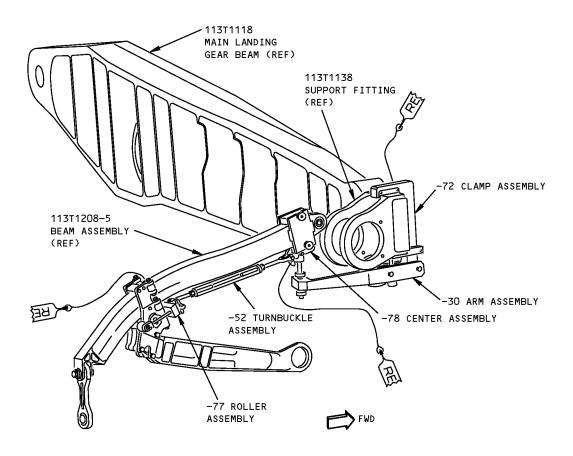




POSITION NO. 1 AND 8 AND, POSITION NO. 2 AND 7 SHOWN

Flap Linkage Inboard and Outboard Trailing Edge Lock Equipment Figure 1 (Sheet 2 of 4)





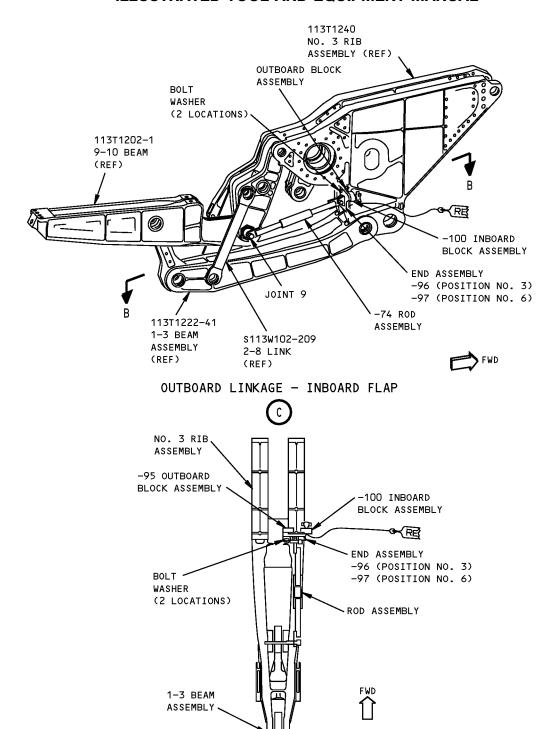
INBOARD TE FLAP
POSITION NO. 4 SHOWN



Flap Linkage Inboard and Outboard Trailing Edge Lock Equipment Figure 1 (Sheet 3 of 4)

27-50-19





Flap Linkage Inboard and Outboard Trailing Edge Lock Equipment Figure 1 (Sheet 4 of 4)

POSITION NO. 3 AND 6 SHOWN

PART NUMBER: A27120-43

NAME: ASSEMBLY/DISASSEMBLY EQUIPMENT - ROTARY ACTUATOR TRAILING

EDGE FLAP

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to aid in assembling and disassembling the trailing edge

flap rotary actuator. Refer to CMM 27-51-48 and CMM 27-51-49 for further usage instructions. This tool is used on 767-400 airplanes. This tool consists

of the following:

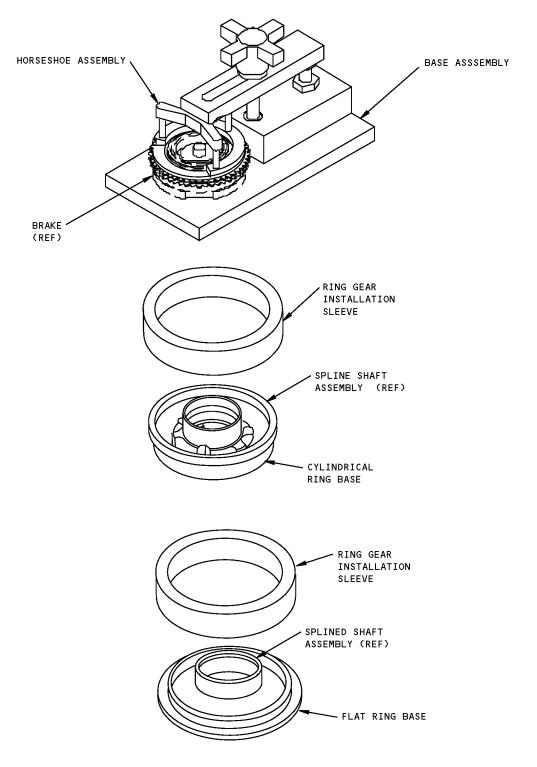
QUANTITY	NOMENCLATURE	PART NUMBER
1	BACN SOCKET	A27120-2
1	PLANET GEAR COVER ASSEMBLY 9.5	A27120-3
1	PLANET GEAR BASE ASSEMBLY 9.5	A27120-4
1	SPRING COMPRESSION CUP	A27120-5
1	SPRING COMPRESSION DISC	A27120-6
1	IN-SITU SOCKET	A27120-7
1	CYLINDRICAL RING BASE 9.5	A27120-8
1	FLAT RING BASE	A27120-9
1	CYLINDERICAL RING BASE 10.6	A27120-10
3	RING GEAR INSTALLATION SLEEVE	A27120-11
1	PLANET GEAR COVER ASSEMBLY 10.6	A27120-14
1	PLANET GEAR ALIGN ASSEMBLY 10.6	A27120-15
3	GUIDE PIN	A27120-16
1	BASE ASSEMBLY	A27120-44
1	HORSESHOE ASSEMBLY	A27120-45
1	STORAGE BOX ASSEMBLY	A27120-17

WEIGHT: 85 lbs (39 kg) (excluding box)

DIMENSIONS: 10 x 75 x 75 inches (254 x 1905 x 1905 mm) (excluding box)

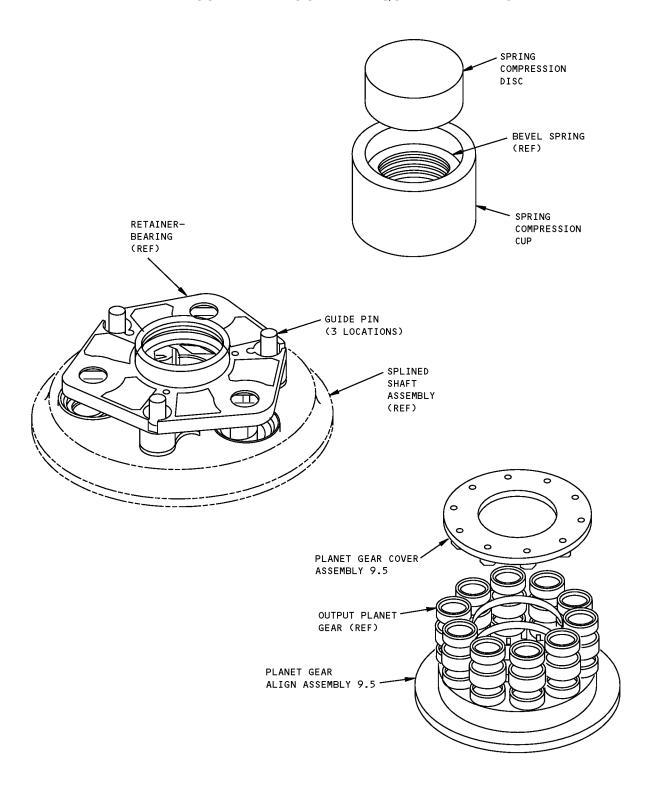
NOTE: A27120-43 supersedes A27120-1.





Rotary Actuator Trailing Edge Flap Assembly/Disassembly Equipment Figure 1 (Sheet 1 of 3)

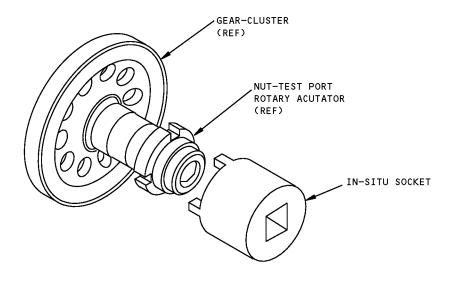


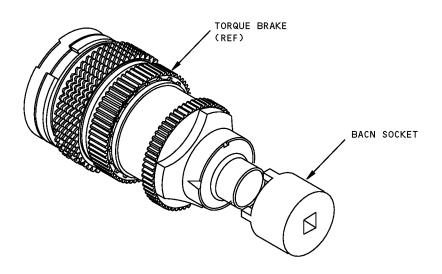


Rotary Actuator Trailing Edge Flap Assembly/Disassembly Equipment Figure 1 (Sheet 2 of 3)

27-50-20







Rotary Actuator Trailing Edge Flap Assembly/Disassembly Equipment Figure 1 (Sheet 3 of 3)

27-50-20



PART NUMBER: A27122-1

NAME: WRENCH EQUIPMENT - BEARING RETAINING NUT, INBOARD FLAP

LINKAGE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

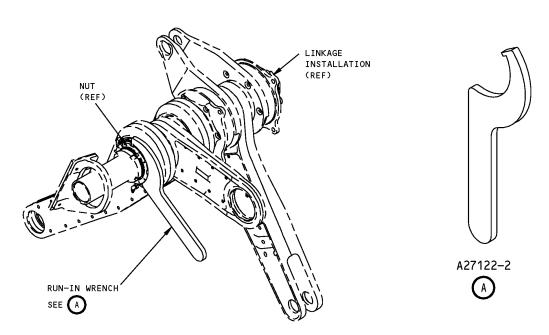
USAGE & DESCRIPTION: The wrench equipment is used to remove and install the bearing retaining

nut on the inboard trailing edge flap. Refer to AMM 27-51-04 for further usage instructions. The wrench equipment consists of a -2 run-in wrench, a -3

spanner wrench and a storage box assembly.

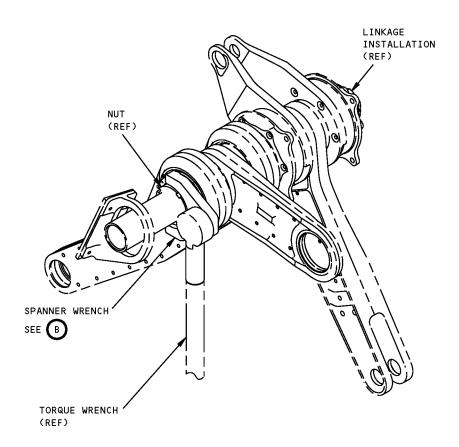
WEIGHT: 5 lbs (2.3 kg) (excluding box)

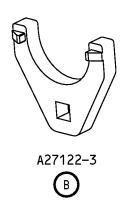
DIMENSIONS: 5 x 6 x 13 inches (127 x 152 x 330 mm) (excluding box)



Bearing Retaining Nut Inboard Flap Linkage Wrench Equipment Figure 1 (Sheet 1 of 2)







 $\underline{\text{NOTE}}$: INSTALL TORQUE WRENCH AT 90° TO SPANNER WRENCH OR USE A 3.00 INCH OFFSET.

Bearing Retaining Nut Inboard Flap Linkage Wrench Equipment Figure 1 (Sheet 2 of 2)

PART NUMBER: A27108-13

NAME: LOCK SET - SPOILER ACTUATOR

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to hold spoilers open against system pressure during

maintenance and/or rigging. One lock set will lock all inboard and outboard

spoilers on both wings. Refer to AMM 27-61-00 for complete usage

instructions. This tool consists of 4 inboard lock assemblies, 8 outboard lock

assemblies and a storage box assembly.

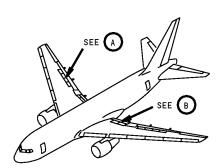
WEIGHT: 27 lbs. (12.2 kg)

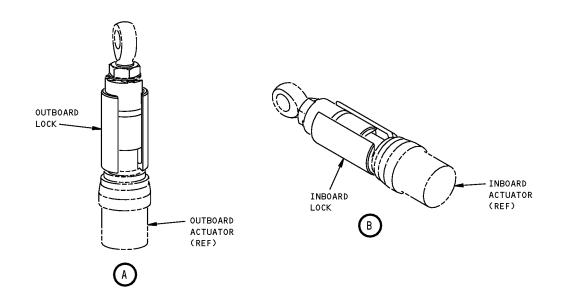
DIMENSIONS: 3 x 11 x 14 inches (76 x 279 x 356 mm)

NOTE: A27108-13 supersedes A27108-10.

A27108-10 supersedes A27108-1. A27108 supersedes A27011.







Spoiler Actuator Lock Set Figure 1

PART NUMBER: A27042-1

NAME: FUNCTIONAL TEST EQUIPMENT - SPOILER ACTUATOR

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool consists of a base assembly with locating posts, blocks, and guides.

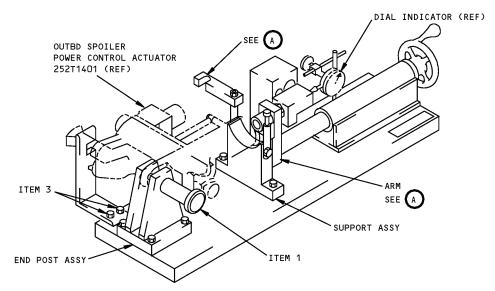
These components secure the inboard and outboard spoiler power control

actuators during rigging, buildup, and testing procedures.

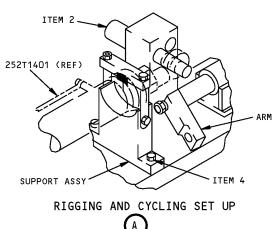
WEIGHT: 90 Lbs (41 kg)

DIMENSIONS: 10 x 12 x 32 inches (254 x 305 x 813 mm)



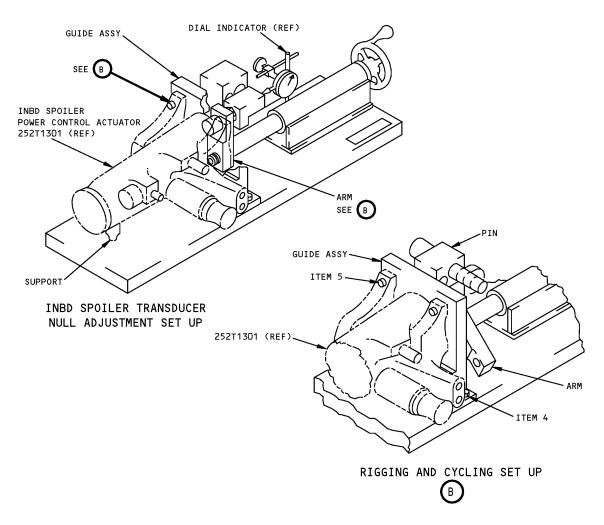


OUTBD SPOILER TRANSDUCER NULL ADJUSTMENT SET UP



Spoiler Actuator Functional Test Equipment Figure 1 (Sheet 1 of 2)





Spoiler Actuator Functional Test Equipment Figure 1 (Sheet 2 of 2)

	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	-23	PIN		
2	-26	PIN		
3	MS16997-60	SCREW		
4	MS16997-142	SCREW		
5	MS35691-29	NUT		



PART NUMBER: A27043-1

NAME: TEST EQPMT FIXTURE - INBD/OUTBD SPOILER ACTUATOR

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool consists of a bracket assembly and junction box. The bracket

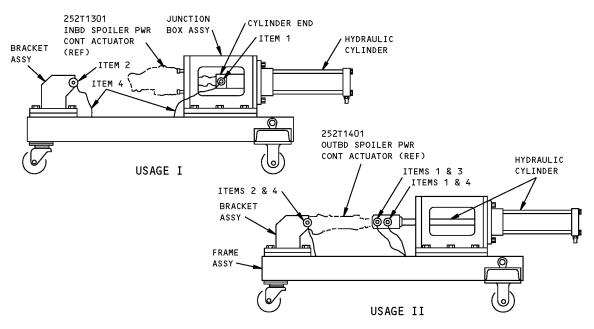
assembly nests either the inboard or outboard spoiler control actuator. The

junction box, with cylinder end, secures the actuator under test to the hydraulic cylinder. The tool is used for leak testing the inboard and outboard

spoiler actuator check valves.

WEIGHT: 220 lbs (100 kg)

DIMENSIONS: 20 x 22 x 60 inches (508 x 559 x 1524 mm)



Inbd/Outbd Spoiler Actuator Test Equipment Fixture Figure 1

REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	NAS1340C3C30D	QUICK-RELEASE PIN		
2	NAS1341C3C30D	QUICK-RELEASE PIN		
3	NAS1342C3C30D	QUICK-RELEASE PIN		



REPAIRABLE/REPLACEABLE PARTS				
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
4	CL-22-KA-12.0L	CABLE ASSEMBLY	V99862	



PART NUMBER: A27047-1

NAME: TEST BLOCK - SPOILER ACTUATOR VALVE CARTRIDGE

AIRPLANE MAINTENANCE: NO

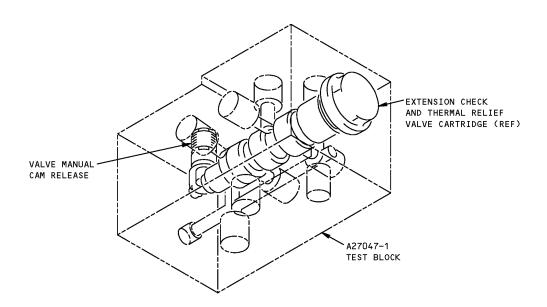
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to test the extension check and thermal relief valve cartridge

used on the spoiler power control actuators.

WEIGHT: 4 lbs (1.8 kg)

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



Spoiler Actuator Valve Cartridge Test Block Figure 1

PART NUMBER: A27075-1

NAME: WRENCH - SPOILER ACTUATOR ASSEMBLY ADJUSTMENT

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

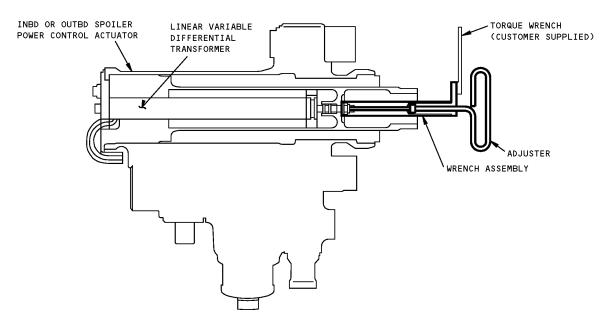
USAGE & DESCRIPTION: This tool is used to perform transducer null adjustments on the linear

variable differential transformer (LVDT) within the inboard or outboard

spoiler power control actuator.

WEIGHT: 1 lb (0.45 kg)

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



Spoiler Actuator Assembly Adjustment Wrench Figure 1

PART NUMBER: A27087-1

NAME: WRENCH - CONTROL LEVER, SPEED BRAKE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

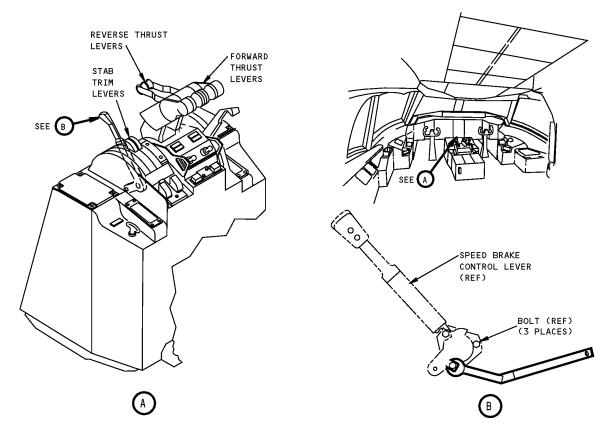
USAGE & DESCRIPTION: This tool is used to remove and install the speed brake control lever. Refer to

AMM 27-61-08 for further usage instructions.

WEIGHT: 2 lbs (0.9 kg)

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





Speed Brake Control Lever Wrench Figure 1



PART NUMBER: A27096-1

NAME: BREAKOUT BOX - SPOILER PANEL POSITION MONITOR AND RELAY

CIRCUIT PCA'S

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 767 ITEM is for information

and historical purposes only.

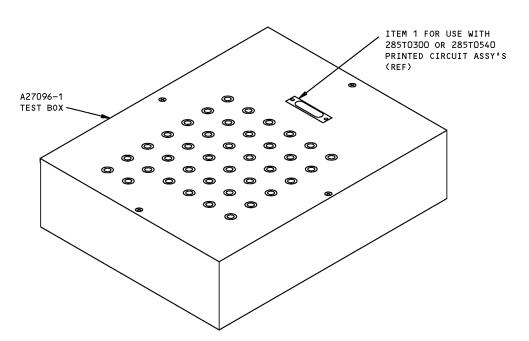
The tool is used to test the spoiler position monitor Printed Circuit Assembly

and spoiler relay Printed Circuit Assembly. The test box consists of a -2

chassis assembly, -3 panel, -4 schematic and -5 wire.

WEIGHT: 3 lbs (1.4 kg)

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



Spoiler Panel Position Monitor and Relay Circuit PCA's Breakout Box Figure 1



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



PART NUMBER: A27004-1, -2

NAME: HOIST ADAPTER - LEADING EDGE SLAT DRIVE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: These hoist adapters are used in conjunction with the boom hoist A20001 for

the removal and installation of both the inboard and outboard power drive units for the leading edge slats. The -1 is used on the inboard power drive unit. The -2 is used on the outboard power drive unit. Refer to AMM 27-81-10 for further usage instructions. The A27004-1 is used on all 767 airplanes. The A27004-2 is used on 767-200 and 767-300 airplanes. These tools are welded structures built up to nest the Power Drive Unit (PDU) components. Neoprene

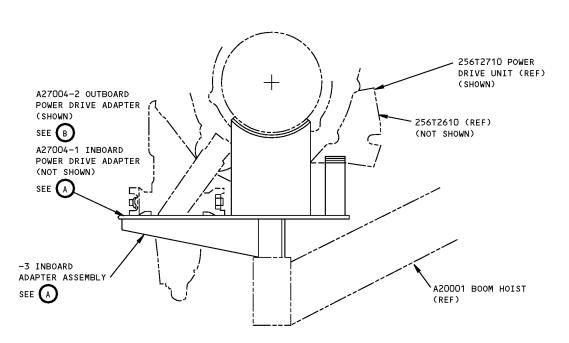
rubber pads absorb vibration and protect the PDU's.

WEIGHT: A27004-1 - 67 lbs (30.4 kg)

A27004-2 - 82 lbs (37.2 kg)

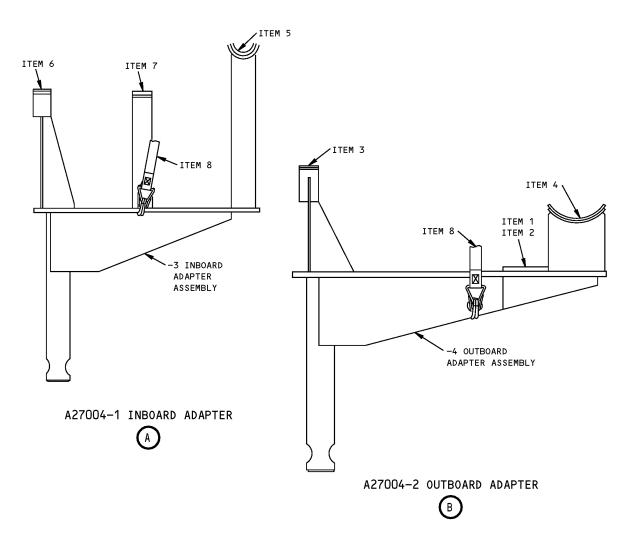
DIMENSIONS: A27004-1 - 13 x 18 x 22 inches (330 x 457 x 559 mm)

A27004-2 - 17 x 17 x 17 inches (432 x 432 x 432 mm)



Leading Edge Slat Drive Hoist Adapter Figure 1 (Sheet 1 of 2)





Leading Edge Slat Drive Hoist Adapter Figure 1 (Sheet 2 of 2)

	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	-16	RUBBER PAD		
2	-28	RUBBER PAD		
3	-29	RUBBER PAD		
4	-30	RUBBER PAD		
5	-31	RUBBER PAD		
6	-32	RUBBER PAD		
7	-33	RUBBER PAD		
8	3101006-L-060-010	STRAP	V01276	



PART NUMBER: A27007-1

NAME: GROUND LOCK - LEADING EDGE SLATS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

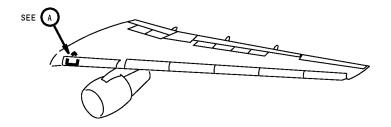
USAGE & DESCRIPTION: This tool is used to lock the inboard and outboard leading edge (LE) slats in

position for maintenance operations. Both inboard and outboard slats are simultaneously locked by 2 lock assemblies. The spline fits into the LE slat gearbox assembly and is held in place by a ball lockpin inserted through the

boss and the gearbox assembly.

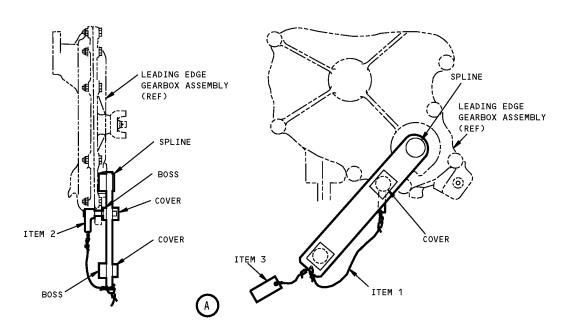
WEIGHT: 4 lbs (1.8 kg)

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



Leading Edge Slats Ground Lock Figure 1 (Sheet 1 of 2)





Leading Edge Slats Ground Lock Figure 1 (Sheet 2 of 2)

	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE	
1	CL-21-KA-12.0LR	LANYARD	V99862	
2	NAS1334C5C15	BALL LOCKPIN		
3	NAS1756-24	WARNING STREAMER		

PART NUMBER: A27017-41

NAME: SLING EQUIPMENT - LEADING EDGE SLAT

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27017-41 sling equipment is used on all 767 airplanes. This equipment

is a beam and cable assembly that is used with overhead lifting equipment to remove/install the inboard/outboard leading edge slats. Refer to AMM 27-81-01, AMM 27-81-02, AMM 27-81-36, and current A27017 drawing for additional usage instructions. The A27017-41 tool consist of a -42 spreader bar

assembly, two -3 outboard slat arm assembly, two -6 belt assemblies and a

storage box assembly.

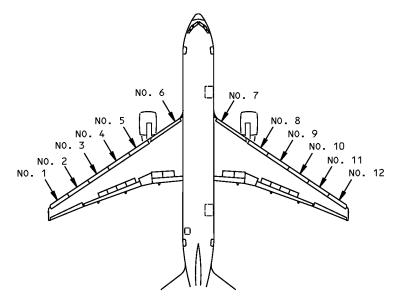
WEIGHT: 55 lbs (25 kg)

DIMENSIONS: (detached) 2 x 5 x 112 inches (51 x 127 x 2845 mm)

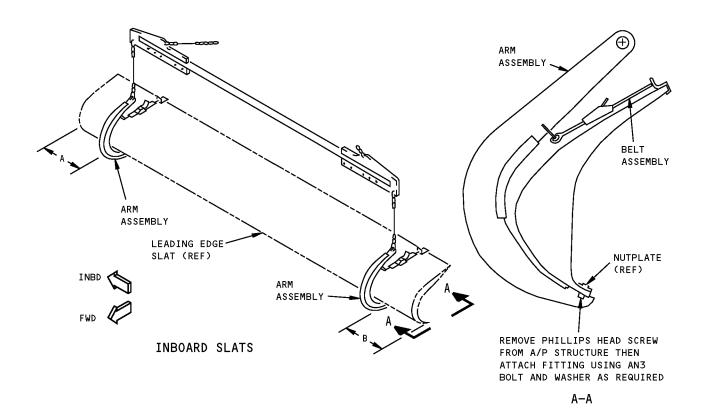
NOTE: A27017-41 supersedes A27017-1



767
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

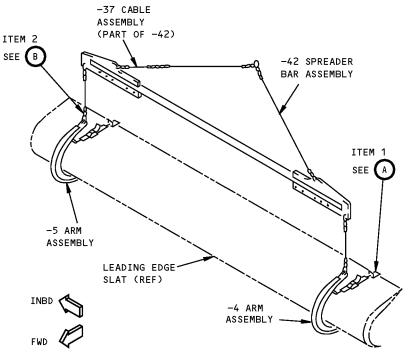


SLAT	Α	В
NUMBER	(INCHES)	(INCHES)
1 AND 12	22	22
2 AND 11	27	27
3 AND 10	31	31
4 AND 9	35	35
5 AND 8	26	32
6 AND 7	26	61

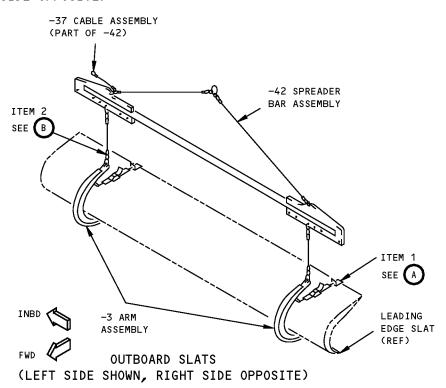


Leading Edge Slat Sling Equipment Figure 1 (Sheet 1 of 3)



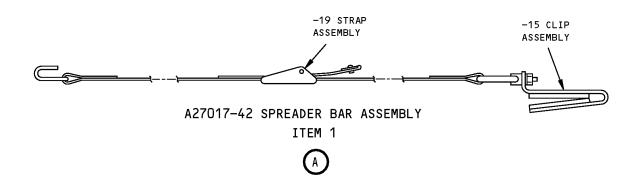


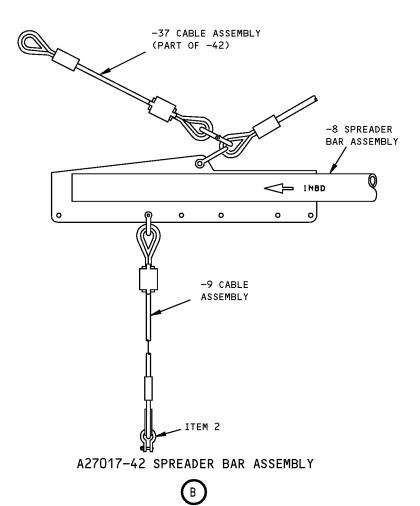
INBOARD SLATS
(LEFT SIDE SHOWN, RIGHT SIDE OPPOSITE)



Leading Edge Slat Sling Equipment Figure 1 (Sheet 2 of 3)







Leading Edge Slat Sling Equipment Figure 1 (Sheet 3 of 3)



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A27017-6	BELT ASSEMBLY	
2	G-209-3/16	SHACKLE	V75535



PART NUMBER: A27023-22

NAME: SPACER KIT - INBOARD/OUTBOARD SLAT INSTALLATION

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used for rigging of three inboard/two outboard slats during

installation. Refer to AMM 27-81-02 for further usage instructions. This tool consists of two -19 double slot spacer assembly, three -3 single slot spacer

assembly and a storage box assembly.

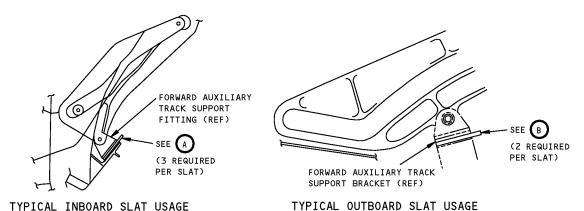
WEIGHT: 3 lbs (1.4 kg) (excluding box)

DIMENSIONS: 4 x 6 x 15 inches (102 x 152 x 381 mm) (excluding box)

NOTE: A27023-22 supersedes A27023-18.

A27023-18 supersedes A27023-17. A27023-17 replaces A27023-11. A27023-11 supersedes A27023-1.

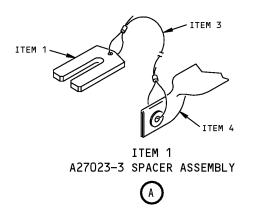
A27023-19 is functionally equivalent to 2MIT114T4000. A27023-3 is functionally equivalent to MIT114T3000.

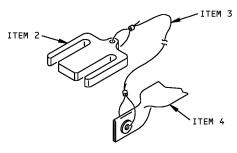


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Inboard/Outboard Slat Installation Spacer Kit Figure 1 (Sheet 1 of 2)







ITEM 1
A27023-19 SPACER ASSEMBLY



Inboard/Outboard Slat Installation Spacer Kit Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	-3	SPACER ASSEMBLY	
2	-19	SPACER ASSEMBLY	
3	CL-21-KA-8.0LR	ATTACH CABLE	V99862
4	NAS1756-24	WARNING STREAMER	



PART NUMBER: A27049-1

NAME: CHECK FIXTURE - LEADING EDGE SLAT ANGLE GEARBOX BACKLASH

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

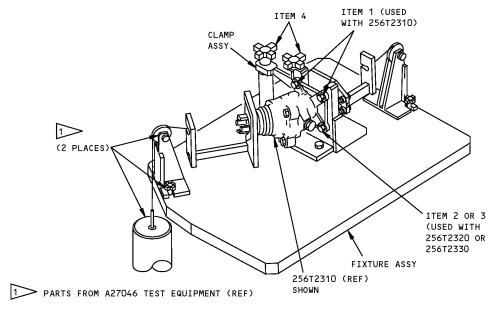
USAGE & DESCRIPTION: This tool consists of a base plate with three portable fixture assemblies, two

adapter assemblies, and a clamp assembly. These parts adapt to the configurations of three slat drive angle gearbox assemblies and secure them for backlash checking procedures. This tool is used with components of

A27046 test fixture.

WEIGHT: 60 Lbs (27 kg)

DIMENSIONS: 9 x 16 x 24 inches (229 x 406 x 610 mm)



Leading Edge Slat Angle Gearbox Backlash Check Fixture Figure 1

	REPAIRABLE/REPLACEABLE PARTS			
ITEM NO. PART NO. NOMENCLATURE VENDOR COD		VENDOR CODE		
1	MS16997-63	SOCKET HD CAP SCREW		
2	MS16997-64	SOCKET HD CAP SCREW		
3	MS35691-66	SOCKET HD CAP SCREW		



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO. PART NO. NOMENCLATURE VENDOR CO		VENDOR CODE	
4	CL-25-AK-2	HAND KNOB	V99862



PART NUMBER: A27101-5

NAME: WRENCH - ADJUSTMENT, INBOARD LEADING EDGE SLATS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

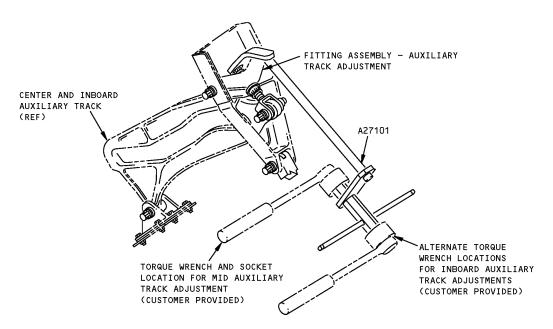
USAGE & DESCRIPTION: Use to tighten the center and inboard auxiliary track support link upper nuts.

This tool consists of a -6 wrench and a -7 box assembly.

WEIGHT: 2 lbs (0.9 kg) (excluding box)

DIMENSIONS: 3.8 x 8.0 x 13.1 inches (97 x 203 x 333 mm) (excluding box)

NOTE: A27101-5 supersedes A27101-1



Inboard Leading Edge Slats Adjustment Wrench Figure 1

PART NUMBER: A27048-1, -2, -3, -40

NAME: FIXTURE - CHECK, GEARBOX BACKLASH

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to check backlash of the leading edge slat and trailing edge

flap power drive units. Refer to CMM 27-51-50, CMM 27-81-21, CMM 27-81-72, CMM 27-81-73 and current A27048 drawing for further usage instructions. This tool consists of three check fixture assemblies and one fixture equipment. The -1 consists of a base assembly, mounting plate and two blocks. The -2 and -3 contain a base assembly, mounting plate, clevis and two posts. The -40 consists of a base assembly, a stand assembly and two posts. All three fixtures are used in conjunction with the A27051 Gearbox Tool

Set and a customer furnished dial indicator.

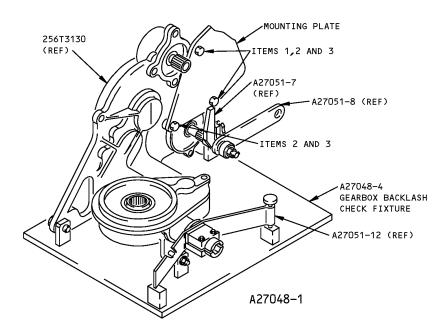
WEIGHT: A27048-1 - 41 lbs (19 kg)

A27048-2 - 36 lbs (16 kg) A27048-3 - 20 lbs (9 kg) A27048-40 - 12 lbs (5 kg)

DIMENSIONS: A27048-1 - 4 x 17 x 19 inches (102 x 432 x 483 mm)

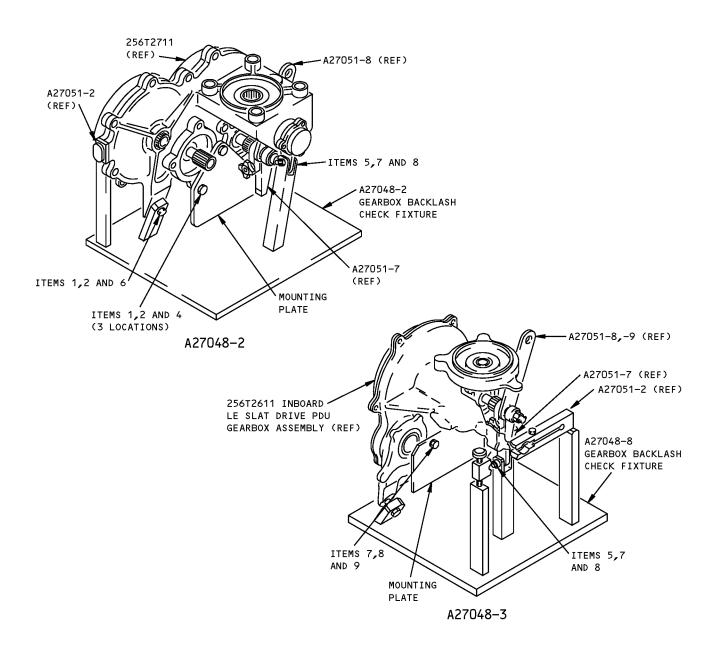
A27048-2 - 9 x 16 x 17 inches (229 x 406 x 432 mm) A27048-3 - 8 x 11 x 12 inches (203 x 279 x 305 mm) A27048-40 - 3 x 12 x 17 inches (76 x 305 x 432 mm)





Gearbox Backlash Check Fixture - A27048-1 Figure 1 (Sheet 1 of 3)



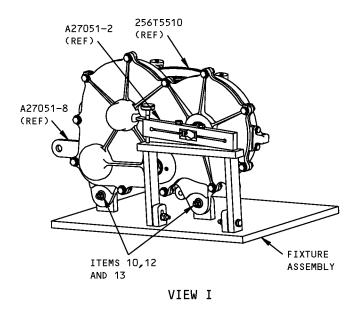


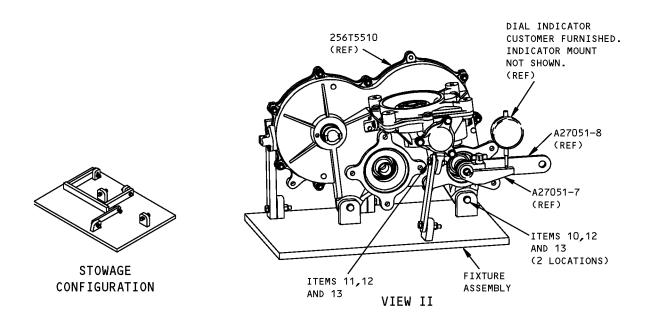
Gearbox Backlash Check Fixture - A27048-1 Figure 1 (Sheet 2 of 3)

27-80-07 Apr 10/2006



767 **ILLUSTRATED TOOL AND EQUIPMENT MANUAL**





A27048-40

Gearbox Backlash Check Fixture - A27048-1 Figure 1 (Sheet 3 of 3)



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS35650-3312	NUT	
2	AN960-516L	WASHER	
3	AN5-5A	BOLT	
4	AN5-11A	BOLT	
5	AN4-13A	BOLT	
6	AN5-12A	BOLT	
7	AN960-416L	WASHER	
8	MS35650-3252	NUT	
9	AN4-11A	BOLT	
10	-43	BOLT	
11	-44	BOLT	
12	-45	WASHER	
13	-46	NUT	

PART NUMBER: A27051-1, -31

NAME: TOOL SET - TE FLAP DRIVE AND LE SLAT DRIVE GEARBOXES

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used in conjunction with A27048 and A27049 backlash test fixtures

to check gearbox backlash of the leading edge slat and trailing edge flap gearboxes. Refer to CMM 27-51-50, CMM 27-81-15, CMM 27-81-21, CMM 27-81-25, CMM 27-81-31, CMM 27-81-72 and CMM 27-81-73 for further usage instructions. This tool consists of a slat drive lock assembly, 4 different spanner adapters, a clamp assembly, 2 different input crank assemblies, a

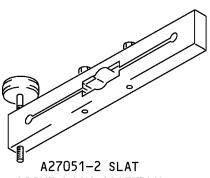
flap drive lock assembly, a wrench and a box.

WEIGHT: 15 lbs (7 kg)

DIMENSIONS: 4 x 15 x 15 inches (102 x 381 x 381 mm)

NOTE: A27051-31 replaces A27051-1 for future procurement.

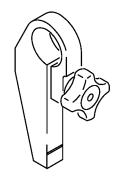




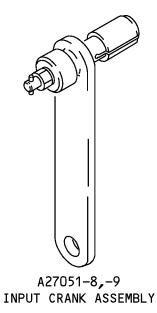
DRIVE LOCK ASSEMBLY

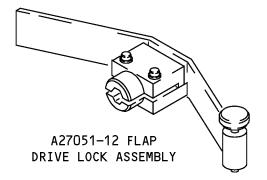


A27051-3,-4,-5 AND -6 SPANNER ADAPTER (TYPICAL)



A27051-7 CLAMP ASSEMBLY





TE Flap Drive and LE Slat Drive Gearboxes Tool Set Figure 1

PART NUMBER: A27119-1

NAME: HOLDING FIXTURE EQUIPMENT - GEAR ASSEMBLY, LE SLAT DRIVE

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to secure the leading edge slat drive gear assembly to

remove or install BACN10RF14 nut. The gear assembly consists of 256T5525-1 shaft and 256T5526-1 gear. Refer to CMM 27-81-73 for further usage

instructions. This tool is used on the 767-400 airplanes. This tool consists of

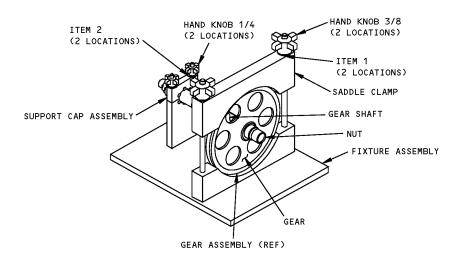
the following:

QUANTITY	NOMENCLATURE	PART NUMBER
1	FIXTURE ASSEMBLY	A27119-2
1	SUPPORT CAP ASSEMBLY	A27119-3
1	SADDLE CLAMP	A27119-5
2	HAND KNOB 3/8	A27119-6
2	HAND KNOB 1/4	A27119-7
2	WASHER 3/8	A27119-8
2	WASHER 1/4	A27119-9
1	STORAGE BOX ASSEMBLY	A27119-4

WEIGHT: 10 lbs (4.5 kg)

DIMENSIONS: 9.5 x 10.75 x 11.75 inches (241 x 273 x 298 mm)





Leading Edge Slat Drive Gear Assembly Holding Fixture Equipment Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	ITEM NO. PART NO. NOMENCLATURE VENDOR CODE		
1	-8	WASHER 3/8	
2	2 -9 WASHER 1/4		

PART NUMBER: A27073-1

NAME: SOCKET - THIN WALL, GEARBOX, INBOARD LEADING EDGE SLAT DRIVE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

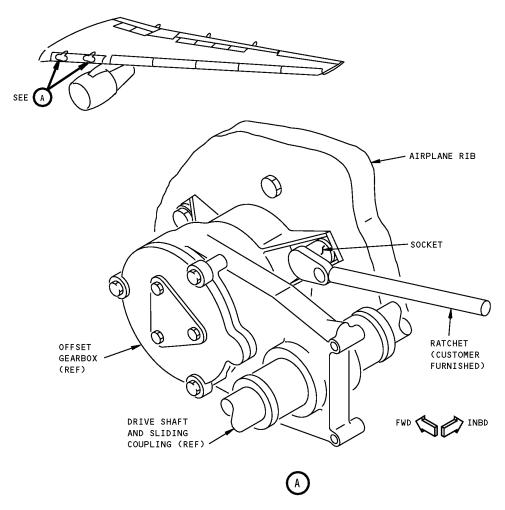
USAGE & DESCRIPTION: This tool is applicable to 767-200 and -300 airplanes only. This tool is used to

remove and install the inboard leading edge No. 6 slat drive offset gearbox

from the wing.

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





Inboard Leading Edge Slat Drive Gearbox Thin Wall Socket Figure 1



PART NUMBER: A27060-11

NAME: JIG EQUIPMENT - INBOARD AND OUTBOARD LEADING EDGE SLAT DRIVE

AND TRAILING EDGE FLAP DRIVE POWER CONTROL UNIT

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool consists of a -2 and -12 jig assembly. The -2 tool is used on both the

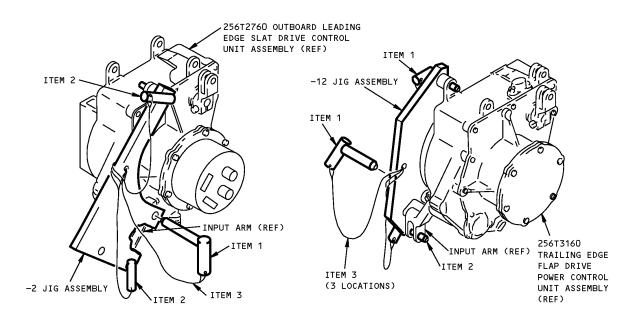
inboard and outboard LE slat drive power control units. The -12 tool is used on the TE flap drive power control unit. The jig assemblies verify angular attitude of the input arms relative to the power control unit assemblies. Each jig assembly is made up of a jig assembly plate and three L-pins of varing

sizes.

WEIGHT: 10 lbs (4.5 kg)

DIMENSIONS: 3 x 10 x 15 inches (76 x 254 x 381 mm)

NOTE: A27060-11 supersedes A27060-1.



Inbd and Outbd LE Slat Drives and TE Flap Drive Power Control Unit Figure 1



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-10-LP	L - PIN	99862
2	CL-6-LP	L - PIN	99862
3	CL-22-KA-10.0LR	CABLE ASSEMBLY	99862

PART NUMBER: A27070-48, -61, -65, -80

NAME: BEARING INSTALLATION EQUIPMENT - ROTARY BEARING INSTALLATION

EQUIPMENT - ROTARY LEADING EDGE SLAT DRIVE

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A27070-48 is used to install the DU bearings into the output rotary

actuator arm assemblies of the LE slat drive. Refer to CMM 27-81-51 and CMM 27-81-01 for further usage instructions. The -48 and -61 are applicable to 767-200, -300 line number 1 through 758. The -65 and -80 are applicable to all 767 airplanes. The -48 consists of a -50 anvi I, a -51 press, a -52 spacer and a -49 storage box assembly. Each of -61 and -65 consists of a -4 bearing puller assembly, a -62 assembly tool, a -63 assembly tool, a -24 backlash test fixture, a -45 bushing, a -46 bushing, a -55 input crank assembly and a -56 input crank assembly. The -65 also includes a -66 bearing puller assembly and a -68 bushing. The -61 has a -23 storage box assembly. The -65 has a -67 storage box assembly. The -80 consists of a -50 small anvil, a -51 small press, a -52 small spacer, a -70 large press, a -81 large spacer, a -84 large anvil and

a -82 storage box assembly.

	<u> </u>		
	A27070-61		
PART NO.	NOMENCLATURE	USAGE	
-4	BEARING PULLER ASSEMBLY	USED TO REMOVE BACB10BA17 BEARING FROM 256T2253 SECOND STAGE GEAR USED IN 256T2210 AND 256T2220 GEAR BOX ASSEMBLIES. SEE CMM 27-81-12 AND 27-81-61.	
-62	ASSEMBLY TOOL	USED TO ASSEMBLE 256T2152 PLANET GEAR TO 256T2153 SUN GEAR TO FACILITATE ASSEMBLY INTO 256T2120 ROTARY ACTUATOR. SEE CMM 27-81-51.	
-63	ASSEMBLY TOOL	USED TO ASSEMBLE 256T2113 PLANET GEAR TO 256T2114 SUN GEAR TO FACILITATE ASSEMBLY INTO 256T2110 ROTARY ACTUATOR. SEE CMM 27-81-01.	
-24	BACKLASH CHECK FIXTURE	USED TO HOLD THE INBOARD ROTARY ACTUATOR (256T2110) OR THE OUTBOARD ROTARY ACTUATOR (256T2120), APPLY A LOAD TO THE PLANETARY GEARSET AND TO MEASURE THE ACCUMULATIVE GEAR BACKLASH. SEE CMM 27-81-01 AND CMM 27-81-51.	
-55	INPUT CRANK ASSEMBLY	USED TO PREVENT THE ACTUATOR SUN GEAR FROM MOVING DURING BACKLASH MEASUREMENTS. THE ASSEMBLY RETAINS THE SUN GEAR ON THE FOLLOWING ACTUATORS: 256T2110-1 AND 256T2110-2.	



	A27070-61		
PART NO.	NOMENCLATURE	USAGE	
-56	INPUT CRANK ASSEMBLY	USED TO PREVENT THE ACTUATOR SUN GEAR FROM MOVING DURING BACKLASH MEASUREMENTS. THE ASSEMBLY RETAINS THE SUN GEAR ON THE FOLLOWING ACTUATORS: 256T2120-1, 256T2120-2, 256T2120-3 AND 256T2120-4.	
-45	BUSHING	USED ON THE OUTPUT CLEVIS OF THE ROTARY ACTUATOR ARM. THIS BUSHING IS USED ON THE FOLLOWING ACTUATORS: 256T110-1 AND 256T2110-2.	
-46	BUSHING	USED ON THE OUTPUT CLEVIS OF THE ROTARY ACTUATOR ARM. THIS BUSHING IS USED ON THE FOLLOWING ACTUATORS: 256T2120-1,256T2120-2,256T2120-3 AND 234T2120-4.	

A27070-65				
PART NO.	NOMENCLATURE	USAGE		
-4	BEARING PULLER ASSEMBLY	USED TO REMOVE BACB10BA17 BEARING FROM 256T2253 SECOND STAGE GEAR USED IN 256T2210 AND 256T2220 GEAR BOX ASSEMBLIES. SEE CMM 27-81-12 AND 27-81-61.		
-66	BEARING PULLER ASSEMBLY	USED TO REMOVE BACB108825 BEARING FROM 256T5215 SECOND STAGE GEAR USED IN 256T5210, 256T5220 AND 256T5240 GEAR BOX ASSEMBLIES. SEE CMM 27-81-44 AND CMM 27-81-62.		
-62	ASSEMBLY TOOL	USED TO ASSEMBLE 256T2152 PLANET GEAR TO 256T2153 SUN GEAR TO FACILITATE ASSEMBLY INTO 256T2120 ROTARY ACTUATOR, SEE CMM 27-81-51, AND TO ASSEMBLE 256T5122 PLANET GEAR TO 256T2153 SUN GEAR TO FACILITATE ASSEMBLY IN 256T5120 ROTARY ACTUATOR, SEE CMM 27-81-54.		
-63	ASSEMBLY TOOL	USED TO ASSEMBLE 256T2113 PLANET GEAR TO 256T2114 SUN GEAR TO FACILITATE ASSEMBLY INTO 256T2110 ROTARY ACTUATOR. SEE CMM 27-81-01.		
-24	BACKLASH CHECK FIXTURE	USED TO HOLD THE INBOARD ROTARY ACTUATOR (256T2110) OR THE OUTBOARD ROTARY ACTUATOR (256T2120) AND 256T5120, APPLY A LOAD TO THE PLANETARY GEARSET AND TO MEASURE THE ACCUMULATIVE GEAR BACKLASH. SEE CMM 27-81-01, CMM 27-81-51 AND CMM 27-81-54.		



A27070-65				
PART NO.	NOMENCLATURE	USAGE		
-55	INPUT CRANK ASSEMBLY	USED TO PREVENT THE ACTUATOR SUN GEAR FROM MOVING DURING BACKLASH MEASUREMENTS. THE ASSEMBLY RETAINS THE SUN GEAR ON THE FOLLOWING ACTUATORS: 256T2110-1 THROUGH 256T2110-4.		
-56	INPUT CRANK ASSEMBLY	USED TO PREVENT THE ACTUATOR SUN GEAR FROM MOVING DURING BACKLASH MEASUREMENTS. THE ASSEMBLY RETAINS THE SUN GEAR ON THE FOLLOWING ACTUATORS: 256T2120-1 THROUGH 256T2120-6 AND 256T2120-9 THROUGH 256T2120-12.		
-45	BUSHING	USED ON THE OUTPUT CLEVIS OF THE ROTARY ACTUATOR ARM. THIS BUSHING IS USED ON THE FOLLOWING ACTUATORS: 256T110-1 THROUGH 256T2110-4.		
-46	BUSHING	USED ON THE OUTPUT CLEVIS OF THE ROTARY ACTUATOR ARM. THIS BUSHING IS USED ON THE FOLLOWING ACTUATORS: 256T2120-1 THROUGH 256T2120-6 AND 256T2120-9 THROUGH 256T2120-12.		
-68	BUSHING	USED ON THE OUTPUT CLEVIS OF THE ROTARY ACTUATOR ARM. THIS BUSHING IS USED ON THE FOLLOWING ACTUATOR: 256T5120-1.		

WEIGHT: A27070-48 - 6 lbs

A27070-61 - 30 lbs A27070-65 - 30 lbs A27070-80 - 30 lbs

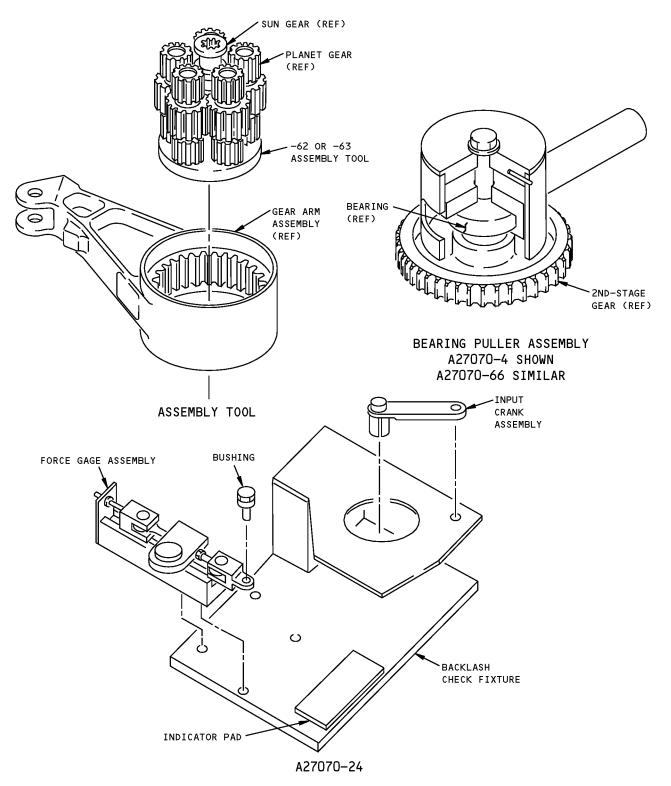
DIMENSIONS: A27070-48 - 4 x 5 x 5 inches

> A27070-61 - 10 x 25 x 30 inches A27070-65 - 10 x 25 x 30 inches A27070-80 - 10 x 25 x 30 inches

NOTE: A27070-80 supersedes A27070-76.

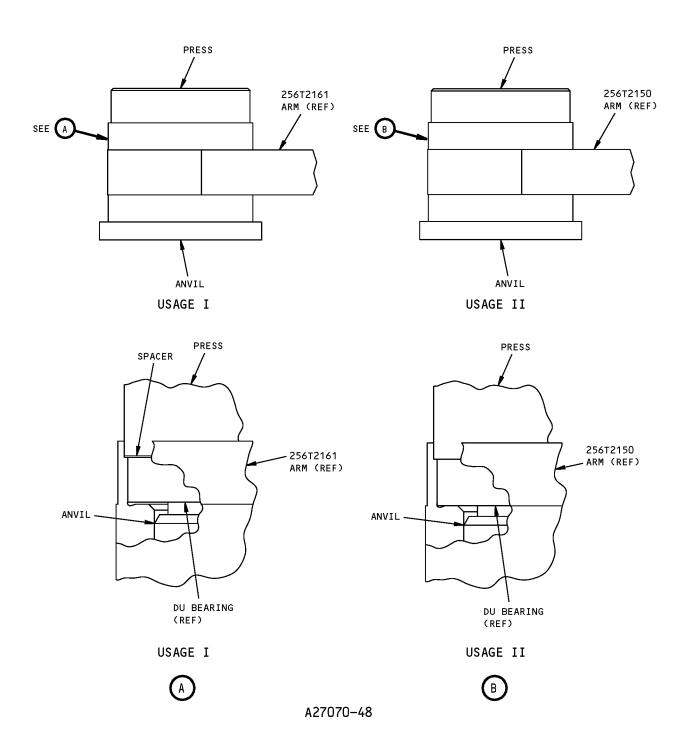
A27070-61 supersedes A27070-54. A27070-54 supersedes A27070-18. A27070-18 supersedes A27070-1.





Leading Edge Slat Drive Rotary Actuator/Offset Gearbox Bearing Installation Equipment Figure 1 (Sheet 1 of 3)

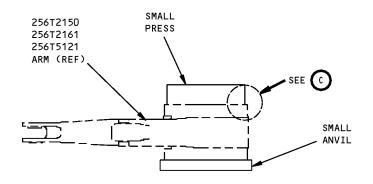


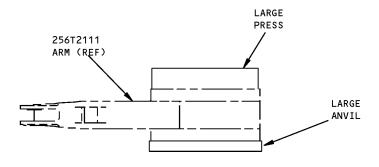


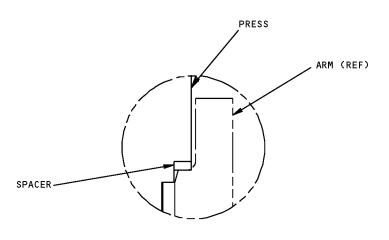
Leading Edge Slat Drive Rotary Actuator/Offset Gearbox Bearing Installation Equipment Figure 1 (Sheet 2 of 3)



767
ILLUSTRATED TOOL AND EQUIPMENT MANUAL









Leading Edge Slat Drive Rotary Actuator/Offset Gearbox Bearing Installation Equipment Figure 1 (Sheet 3 of 3)

PART NUMBER: A27112-1

NAME: RIGGING EQUIPMENT - LEADING EDGE SLAT POSITION SENSOR SWITCH

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This equipment is used to set and maintain proper gap between the auxiliary

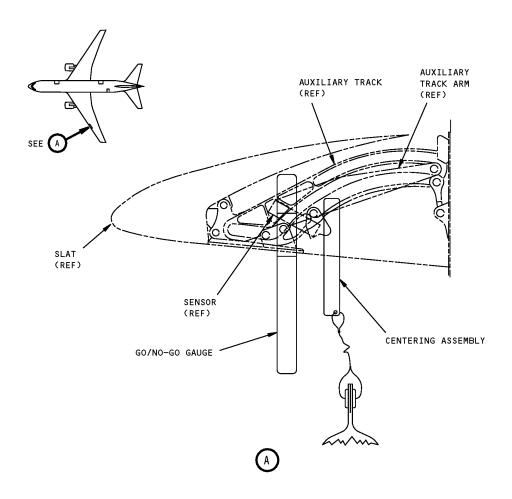
arm target and sensor switch on the inboard and outboard slats during rigging of the position sensor switches. This equipment consists of outboard and inboard centering assemblies, two go/no-go gauges, and a storage box assembly. Refer to AMM 27-81-01 and AMM 27-88-01 for further usage

information.

WEIGHT: 3 lbs (1.4 kg) (excluding box)

DIMENSIONS: 2 x 8 x 12 inches (51 x 203 x 305 mm) (excluding box)





Leading Edge Slat Position Sensor Switch Rigging Equipment Figure 1

PART NUMBER: A27077-1

NAME: ADAPTER - LEADING EDGE SLAT DRIVE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The adapter is used with a customer supplied air supply to check out the slat

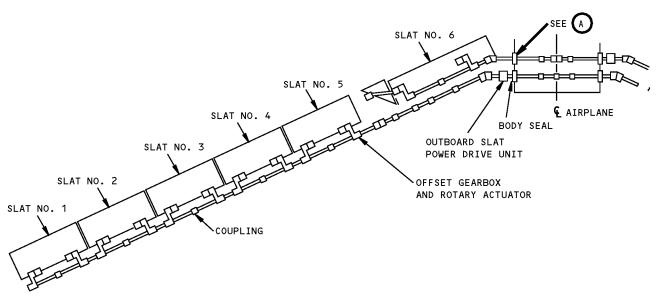
operation without airplane power. The tool is a simple 1/2-inch square drive adapter that fits on the spline of the torque tube at a coupling at various

locations in the power train.

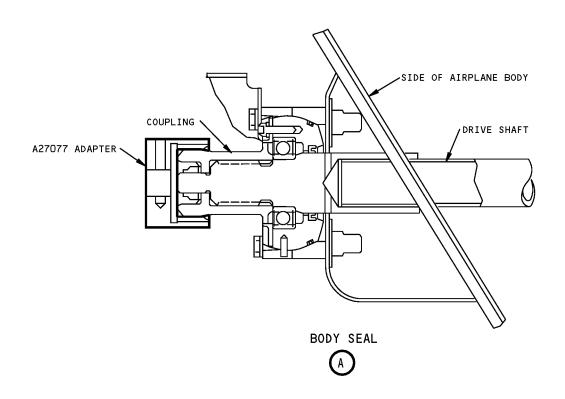
WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 1.20 x 1.75 dia inches (31 x 45 dia mm)





LEADING EDGE SLAT DRIVE TRAIN



Leading Edge Slat Drive Adapter Figure 1

PART NUMBER: A27078-7

NAME: SPLINE ADAPTERS - LEADING EDGE SLAT DRIVE ROTARY ACTUATORS

AND GEARBOXES

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool consisting of four spline adapters is used to functionally test various

leading edge slat drive rotary actuators and offset gearboxes. Refer to the

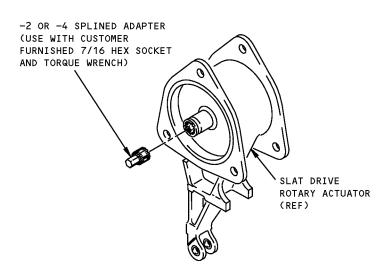
table below for the proper spline adapter.

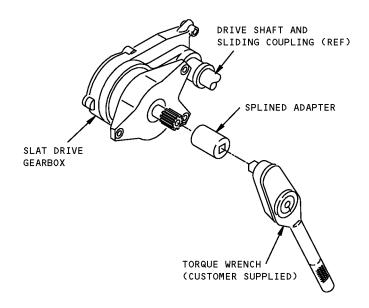
TOOL PART NUMBER	MATING PART (REF)	A/P ASSEMBLY USED ON (REF)
A27078-2	SUN GEAR SHAFT (256T2114)	ROTARY ACTUATOR (256T2110)
A27078-3	OUTPUT SHAFT (256T2213)	GEARBOX (256T2210)
A27078-4	SUN GEAR SHAFT (256T2153)	ROTARY ACTUATOR (256T2120)
A27078-5	OUTPUT SHAFT (256T2256)	GEARBOX (256T2220)
A27078-8	INPUT SHAFT	GEARBOX (256T2210) (256T2220)

WEIGHT: 6 lbs (2.7 kg)

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







Leading Edge Slat Drive Rotary Actuator and Gearbox Spline Adapters Figure 1

27-80-15 Apr 10/2006

PART NUMBER: A27089-9

NAME: GAGE - RIGGING, LEADING EDGE SLAT OUTBOARD WING

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27089-9 slat rigging gage is used on all 767 airplanes. The A27089-9

consists of an A27089-2 gage, and A27089-10 gage and an A27089-11 gage,

all contained in a storage box.

Prior to slat track replacement, the A27089-2 gage is used on 767-200, -200ER, -300 and -300ER airplanes slats 1 thru 5 and 8 thru 12 from line number 1 thru 757. After slat track replacement, the A27089-11 gage is used on 767-200, -200ER, -300 and -300ER airplanes slats 2 thru 5 and 8 thru 11 from line number 1 thru 757. After slat track replacement, the A27089-2 gage is used on 767-200, -200ER, -300 and -300ER airplanes slats 1 thru 12 from line number 1 thru 757.

From line 759 and on, the A27089-10 gage is used on 767-200, -200ER, -300 and -300ER airplanes slats 2 thru 5 and 8 thru 11 from line number 1 thru 757. The A27089-2 gage is used on slats 1 and 12.

On 767-400 airplanes, the A27089-10 gage is used on slats 2 thru 5 and 8 thru 11. The A27089-2 gage is used on slats 1 and 12.

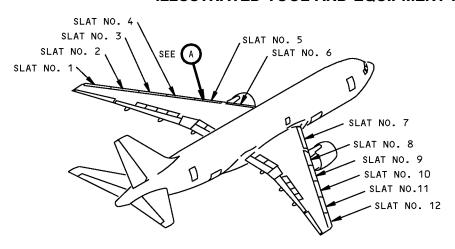
The A27089 rigging gages are a "U" shaped steel gage. The A27089 gages are used to set the fair of the leading edge slats. A27089 is used to check the slat's main roller track clearance. Refer to AMM 27-81-00, AMM 27-81-02 and AMM 27-81-20 for complete usage instructions.

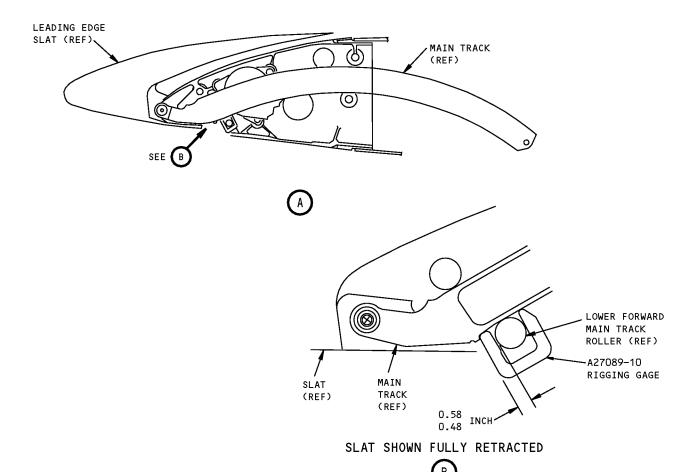
WEIGHT: 1.5 lbs (0.7 kg)

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

NOTE: A27089-9 supersedes A27089-5.







Leading Edge Slat Outboard Wing Rigging Gage Figure 1

27-80-16

PART NUMBER: A27092-84, -106

NAME: ACTUATOR/DEACTUATOR SET - PROXIMITY SENSORS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A27092-84 actuator/deactuator set is used on all 767 airplanes. Proximity

sensors are used in the flight controls, indicating recording, landing gear and door systems. A27092-84 and A27092-106 set 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." Refer to AMM 27-81-00, AMM 31-31-00, 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 32-61-03, AMM 32-71-00, AMM 52-35-00, AMM 52-71-02 and current A27092 drawing for additional usage instructions.

The A27092-84 and A27092-106 sets consists 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: A27092-84 - 10 lbs (4.5 kg)

A27092-106 - 15 lbs (7 kg)

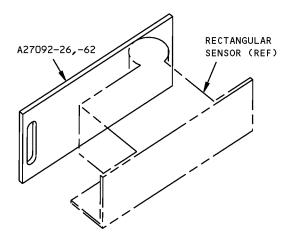
6 x 20 x 20 inches (152 x 508 x 508 mm) (excluding box) **DIMENSIONS:**

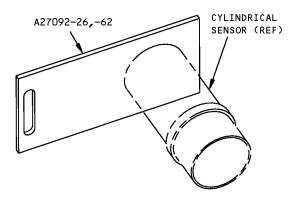
NOTE: A27092-106 replaces A27092-84 for future procurement.

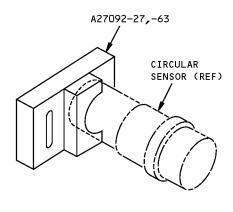
A27092-84 supersedes A27092-61.

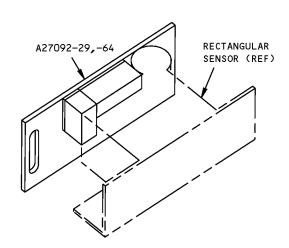
A27092 replaces G32002 for future procurement.





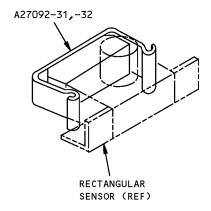


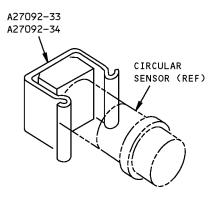




Proximity Sensors Actuator/Deactuator Set Figure 1 (Sheet 1 of 2)







MAGNETIC REED SWITCH (60B40018-41,-42,-43,-44) (REF) A27092-85 ACTUATOR (MAGNET)

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

ASSEMBLY



PART NUMBER: A27094-1, -5

NAME: SPACER SET - PRELOAD, LEADING EDGE SLAT RIGGING

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used to set preload on aft links of aft auxiliary arms during rigging

of leading edge slats. For complete usage instructions see AMM 27-81-01. The -1 tool consist of 1 spacer and a storage box. The -5 tool consists of 3

spacers and a storage box.

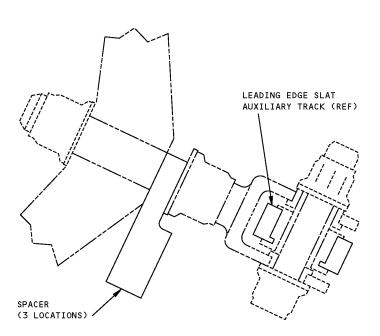
WEIGHT: A27094-1 - 0.25 lbs (0.12 kg) (excluding box

A27094-5 - 0.75 lbs (0.34 kg) (excluding box)

DIMENSIONS: A27094-1 - 0.5 X 1 X 2 inches (13 x 25 x 51 mm) (excluding box)

A27094-5 - 0.5 x 2 x 3 inches (13 x 51 x 76 mm) (excluding box)

NOTE: A27094-5 replaces A27094-1 for future procurement.



Leading Edge Slat Rigging Preload Spacer Figure 1

PART NUMBER: A27102-7

NAME: ADAPTER - LEADING EDGE SLAT AND TRAILING EDGE FLAP, MANUAL

DRIVE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used with an air motor to fit on the spline of power drive unit to

move leading edge slats and trailing edge flaps up and down when power is not available from the airplane. Adapter will move slats and flaps through power drive units. Re-rigging is not required. Refer to AMM 27-51-00 and AMM 27-81-00 for specific usage instructions. This tool consists of a -2

adapter and a -8 storage box.

CAUTION:

DO NOT USE AN AIR MOTOR WHICH HAS AN OUTPUT TORQUE GREATER THAN 500 IN-LB TO PREVENT DAMAGE TO EQUIPMENT. DO NOT LET THE DRIVE SYSTEM HIT THE EXTEND OR RETRACT OVERTRAVEL STOPS AT

FAST SPEED TO PREVENT DAMAGE.

WEIGHT: 1 lb (0.45 kg)

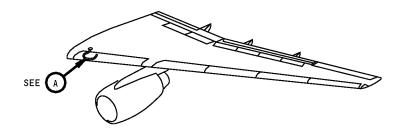
DIMENSIONS: 3.5 x 3.5 x 4 inches (89 x 89 x 102 mm)

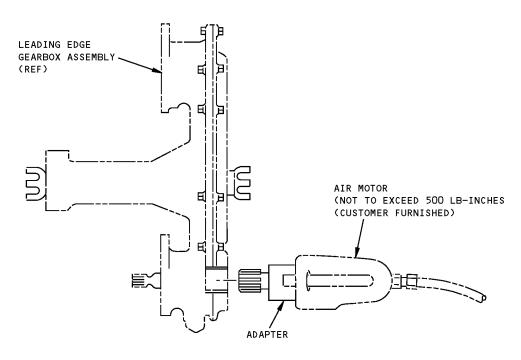
NOTE: A27102-7 supersedes A27102-5.

A27102-5 supersedes A27102-1.



767
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LEADING EDGE SLAT USAGE

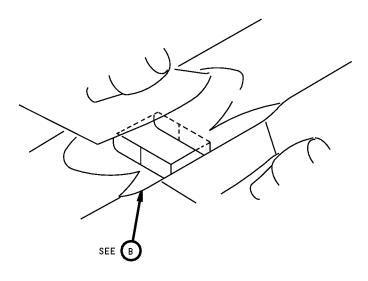


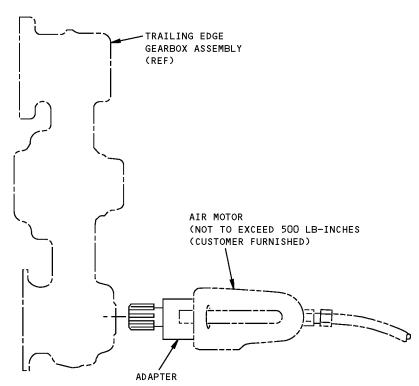
Leading Edge Slat and Trailing Edge Flap Manual Drive Adapter Figure 1 (Sheet 1 of 2)

27-80-19



767
ILLUSTRATED TOOL AND EQUIPMENT MANUAL





TRAILING EDGE FLAP USAGE



Leading Edge Slat and Trailing Edge Flap Manual Drive Adapter Figure 1 (Sheet 2 of 2)

27-80-19

Page 3 Apr 10/2006



PART NUMBER: A27117-1

NAME: TEST EQUIPMENT - LE SLAT 5 AND 8, INBOARD OFFSET GEARBOX

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: YES

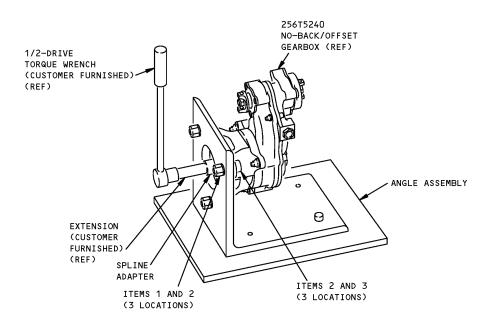
USAGE & DESCRIPTION: This tool is used for the no-back brake test on leading edge slat number 5

and 8, inboard offset gearbox. Refer to AMM 27-81-20 and CMM 27-81-62 for further usage instructions. This tool is used on 767-200,-300 line number 758 and on and 767-400 airplanes. This tool consists of an angle assembly, a

spline adapter, related hardware and a storage box assembly.

WEIGHT: 15 lbs (7 kg) (excluding box)

DIMENSIONS: 8 x 9 x 12 inches (203 x 229 x 305 mm) (excluding box)



Leading Edge Slat 5 and 8 Inboard Offset Gearbox Test Equipment Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS51967-8	NUT	
2	NAS1149F0663P	WASHER	
3	NAS1352-6-24B	SCREW	

PART NUMBER: A27116-1

NAME: SLING - OUTBOARD SLAT PDU

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: This tool is used with a customer furnished fishpole hoist to remove and

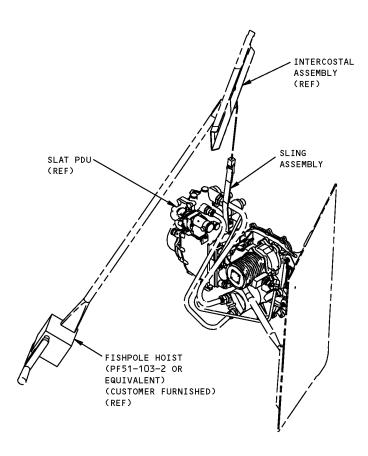
install the outboard slat PDU. Refer to AMM 27-81-10 for further usage instructions. This tool is used on 767-400 airplanes. This tool consists of a

sling assembly and a storage box assembly.

WEIGHT: 3 lbs (1.4 kg) (excluding box)

DIMENSIONS: 8 x 8 x 8 inches (203 x 203 x 203 mm) (excluding box)





Outboard Slat PDU Sling Figure 1

PART NUMBER: A27054-14

NAME: FIXTURE-HOLDING, GEAR ASSEMBLY, LE SLAT DRIVE

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to hold 256T2625 and 256T2727, gear shafts when MS19068-

023 and BACN10RF-10 nuts are being tightened. See view I and II. This tool is used to hold the 256T2721 gear shaft when BACN10RF-10 and BACN10RF-14 nuts are being tightened. See View III. This tool is used on the 767-200 and 300 airplanes. This tool is also used on the 767-400 airplanes for the Inboard Slat PDU only. See A27119 for 767-400 Outboard Slat PDU. Refer to CMM 27-81-21 and CMM 27-81-72 for further usage instructions. This tool consists of a -2 fixture assembly, two -10 clamps, two -11 clamps and a box. The -2 consists of a saddle clamp, a support clamp, a base and stud assembly, two

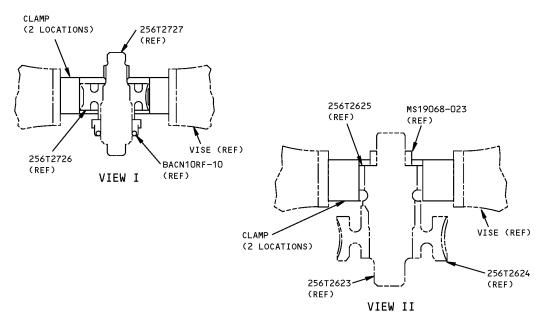
different washers (two of each), two bolts and two knobs.

WEIGHT: 9 lbs (4 kg)

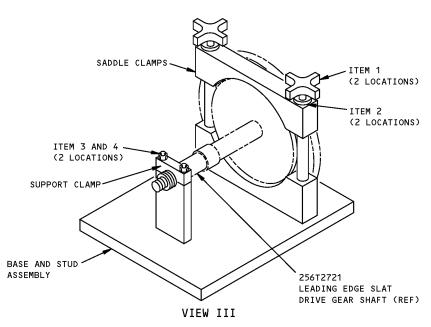
DIMENSIONS: 10 x 11 x 16 inches (254 x 279 x 406 mm)

NOTE: A27054-14 supersedes A27054-1.





Leading Edge Slat Drive Gear Assembly Holding Fixture Figure 1 (Sheet 1 of 2)



Leading Edge Slat Drive Gear Assembly Holding Fixture Figure 1 (Sheet 2 of 2)



REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-3-HK-4	KNOB	V99862
2	AN960-616	WASHER	
3	AN960-516	WASHER	
4	AN5-11	BOLT	

PART NUMBER: A27121-1

NAME: TOOL SET - SEAL INSTALLATION

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

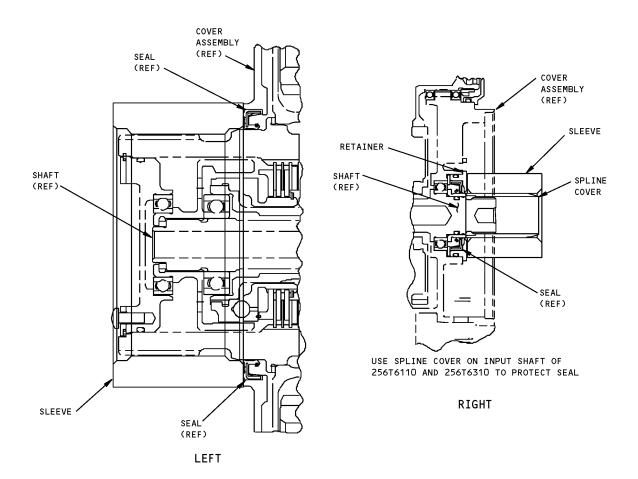
USAGE & DESCRIPTION: The A27121 seal installation tool set is used on 767-200/-300 airplanes after

line number 758 only and on 767-400 airplanes. This tool is used to install the seals on the trailing edge flap drive rotary actuators, and the leading edge slat drive no-back/offset gearbox assemblies. Refer to CMM 27-51-48, CMM 27-51-49, CMM 27-81-44 and CMM 27-81-62 for further usage instructions. This tool consists of a -2 sleeve, a -3 sleeve, a -4 sleeve, a -5 sleeve, a -6 sleeve, a -7 spline cover, a -8 guide and a -9 storage box assembly.

WEIGHT: 8 lbs (3.6 kg)

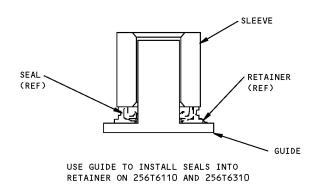
DIMENSIONS: 3 x 9 x 20 inches (76 x 229 x 508 mm)





Seal Installation Tool Set Figure 1 (Sheet 1 of 2)





Seal Installation Tool Set Figure 1 (Sheet 2 of 2)

GEARBOX ASSEMBLY	SEAL	SLEEVE
256T5210 256T5220 256T5240	S256W410-1	-3
256T5210 256T5220	S256W410-2	-3
256T5210 256T5220 256T5240	S256W410-3	-4
256T6110 256T6310	S256W410-7	-2
256T6110	S256W410-22	-6
256T6310	S256W410-23	-5