

CHAPTER

71

POWER PLANT



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

CHAPTER 71
POWER PLANT

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
EFFECTIVE PAGES		71-00-08 (cont)		71-00-19	
1 thru 2	Sep 20/2008	3	Sep 20/2006	1	Sep 20/2006
		4	BLANK	2	Sep 20/2006
71-CONTENTS		71-00-09		71-00-20	
1	Sep 20/2006	1	Sep 20/2006	1	Sep 20/2006
R 2	Sep 20/2008	2	Sep 20/2006	2	BLANK
71-00-01		3	Sep 20/2006	71-00-21	
1	Sep 20/2006	4	Sep 20/2006	1	Sep 20/2006
2	Sep 20/2006	5	Sep 20/2006	2	Sep 20/2006
3	Sep 20/2006	6	BLANK	3	Sep 20/2006
4	Sep 20/2007	71-00-10		4	BLANK
5	Sep 20/2006	1	Sep 20/2006	71-00-22	
6	BLANK	2	BLANK	1	Sep 20/2006
71-00-02		71-00-11		2	BLANK
1	Sep 20/2006	1	Sep 20/2006	71-00-23	
2	Sep 20/2006	2	BLANK	1	Sep 20/2006
3	Sep 20/2006	71-00-12		2	Sep 20/2006
4	Sep 20/2006	1	Sep 20/2006	71-00-24	
71-00-03		2	BLANK	1	Sep 20/2006
1	Sep 20/2007	71-00-13		2	Sep 20/2006
2	Sep 20/2007	1	Sep 20/2006	71-00-25	
3	Sep 20/2007	2	BLANK	1	Sep 20/2006
4	Sep 20/2007	71-00-14		2	BLANK
5	Sep 20/2007	1	Sep 20/2006	71-00-26	
6	BLANK	2	Sep 20/2006	1	Sep 20/2006
71-00-04		71-00-15		2	BLANK
1	Sep 20/2006	R 1	Sep 20/2008	71-00-27	
2	BLANK	R 2	Sep 20/2008	1	Sep 20/2006
71-00-05		71-00-16		2	BLANK
1	Sep 20/2006	1	Sep 20/2006	71-00-28	
2	Sep 20/2006	2	Sep 20/2006	R 1	Sep 20/2008
71-00-06		3	Sep 20/2006	R 2	Sep 20/2008
1	Sep 20/2006	4	BLANK	A 3	Sep 20/2008
2	BLANK	71-00-17		A 4	BLANK
71-00-07		1	Sep 20/2006	71-00-29	
1	Sep 20/2006	2	BLANK	1	Sep 20/2006
2	Sep 20/2006	71-00-18		2	Sep 20/2006
71-00-08		1	Sep 20/2006	3	Sep 20/2006
1	Sep 20/2006	2	Sep 20/2006	4	BLANK
2	Sep 20/2006				

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

71-EFFECTIVE PAGES



757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

CHAPTER 71
POWER PLANT

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
71-00-30		71-10-06 (cont)			
1	Sep 20/2006	3	Sep 20/2006		
2	Sep 20/2006	4	BLANK		
71-00-31		71-20-01			
1	Sep 20/2006	R 1	Sep 20/2008		
2	Sep 20/2006	R 2	Sep 20/2008		
71-00-32		R 3	Sep 20/2008		
1	Sep 20/2006	R 4	Sep 20/2008		
2	Sep 20/2006	R 5	Sep 20/2008		
71-00-33		R 6	Sep 20/2008		
1	Sep 20/2006	R 7	Sep 20/2008		
2	Sep 20/2006	R 8	Sep 20/2008		
71-00-34		D 9	Sep 20/2008		
1	Sep 20/2006	D 10	BLANK		
2	Sep 20/2006				
71-00-35					
1	Sep 20/2006				
2	Sep 20/2006				
71-10-01					
1	Sep 20/2006				
2	BLANK				
71-10-02					
1	Sep 20/2006				
2	Sep 20/2006				
71-10-03					
1	Sep 20/2006				
2	BLANK				
71-10-04					
1	Sep 20/2006				
2	Sep 20/2006				
3	Sep 20/2006				
4	Sep 20/2006				
71-10-05					
1	Sep 20/2006				
2	Sep 20/2006				
3	Sep 20/2006				
4	BLANK				
71-10-06					
1	Sep 20/2006				
2	Sep 20/2006				

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

71-EFFECTIVE PAGES



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

TABLE OF CONTENTS

<u>Subject</u>	<u>Title</u>	<u>Part No.</u>
71-	POWER PLANT	
71-00-01	ENGINE HANDLING EQUIPMENT - RB211-535	B71001-313, -365, -366
71-00-02	SLING EQUIPMENT - ENGINE NOSE COWL, RB211-535	B71003-1
71-00-03	TOOL SET - RB211-535 ENGINE CHANGE	B71005-48, -49, -50, -51, -52, -53
71-00-04	PROOF LOAD EQUIPMENT - RB211-535 ENGINE	B71008-1
71-00-05	LOCK - 'C' DUCT ACTUATOR, RB211-535 ENGINE	B71009-1, -9
71-00-06	PROOF LOAD FIXTURE - RB211-535 ENGINE CRADLE	B71010-1
71-00-07	SLING - RB211-535 ENGINE	B71015-1
71-00-08	LIFT FIXTURE - ENGINE ACCESSORY	A71015-107
71-00-09	HOIST ADAPTER - INTEGRATED DRIVE GENERATOR (IDG)	A71013-19, -32, -55, -82
71-00-14	PROOF LOAD FIXTURE - ENGINE HANDLING EQUIPMENT, PW2000 SERIES	B71021-1
71-00-15	ENGINE HANDLING EQUIPMENT - PW2000 SERIES	B71022-172
71-00-16	SLING - ENGINE HANDLING, PW2000 SERIES ENGINES	B71027-1
71-00-18	REFERENCE INFORMATION - RB211-535 ENGINE HANDLING EQUIPMENT	B71019
71-00-19	WRENCH - ENGINE TRIM ADJUSTMENT, RB211-535	B73001-1
71-00-21	LOCATING JIG - ENGINE BUILDUP TO STRUT, PW2000 SERIES ENGINES	B71032-1
71-00-23	FLUSH CART SPECIFICATION - INTEGRATED DRIVE GENERATOR (IDG) COOLING SYSTEM	A71040
71-00-24	HOIST SLING - PW2000 SERIES ENGINE AND STAND	B71036-1
71-00-25	REMOVAL EQUIPMENT - BARREL NUT, ENGINE MOUNT	B71039-9
71-00-28	ADAPTER EQUIPMENT - LOAD TEST, PRESSURE RELIEF DOOR LATCH	B71044-10, -28
71-00-29	SLING ASSEMBLY - OVERHEAD REMOVAL/INSTALLATION, PW ENGINE	B71046-1
71-00-30	SPECIFICATION - POWERED HOIST SYSTEM, GROUND SUPPORT EQUIPMENT (GSE) OPERATIONS	J71006
71-00-31	SAFETY ROD - "C" DUCT, RB211-535C	B71011-1
71-00-32	SAFETY ROD - RB211-535E4 "C" DUCT	B71025-9
71-00-33	TEST EQUIPMENT - ENGINE PRESSURE MONITORING	B71034-63
71-00-34	TEST EQUIPMENT - FUEL PUMP PRESSURE, PW2000 SERIES ENGINES	B71043-1

71-CONTENTS



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

<u>Subject</u>	<u>Title</u>	<u>Part No.</u>
71-00-35	CRADLE - RB211-535 ENGINE	B71007-1, -117, -127, -83
71-10-02	SLING - RB211-535 ENGINE FAN COWL	B71013-1
71-10-03	SLING EQUIPMENT - CORE COWL	A71016-1
71-10-04	HOLD OPEN EQUIPMENT - THRUST REVERSER/CORE COWL, PRATT AND WHITNEY ENGINE	B71020-39, -74
71-10-05	SLING EQUIPMENT - ENGINE INLET COWL	A71005-33
71-10-06	SLING EQUIPMENT - INLET COWL	B71040-36, -37, -39
I 71-20-01	TOOL SET - ENGINE CHANGE, PW2000 SERIES	B71024-35, -36

71-CONTENTS

Page 2
Sep 20/2008

D634N501



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71001-313, -365, -366

NAME: ENGINE HANDLING EQUIPMENT - RB211-535

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71001-313, -365 or -366 engine handling equipment is used on 757 airplanes equipped with RB211-535 engines. All B71001 engine handling equipment requires proof load testing using a B71008 proof load fixture.

The B71001-313 rail equipment is used for removal and installation of the thrust reverser translating sleeve, engine inlet and exhaust nozzle engine components. B71001-313 is used in conjunction with the customer-furnished B71003 nose cowl sling equipment to remove and install the engine inlet. B71001-313 is used in conjunction with the customer-furnished B71030 common nozzle sling assembly to remove and install the exhaust nozzle.

The B71001-366 bootstrap equipment is used in conjunction with the customer-furnished B71007 cradle for complete RB211-535 engine removal and installation with the "C" ducts in place.

B71001-365 engine handling equipment includes both the B71001-313 rail equipment and B71001-366 bootstrap equipment. Boeing drawing "B71019, Reference Information – Engine Handling Equipment, RB211-535," provides datum, dimensional and angular references for use with the B71001 engine handling equipment and the B71007 cradle. Refer to the current B71001, B71007, B71019 drawings and AMM 71-00-02 for complete usage instructions. B71001-313 and B71001-366 consist of:

B71001-313		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FORWARD RAIL ARM ASSEMBLY	B71001-320 ^{*[1]}
1	FORWARD RAIL ARM ASSEMBLY	B71001-321 ^{*[2]}
1	BRACE ASSEMBLY	B71001-178
1	RAIL ASSEMBLY	B71001-176
1	RAIL ASSEMBLY	B71001-177
1	BRACE ASSEMBLY	B71001-179
1	STORAGE BOX	

*[1] B71001-315 OPTION TO B71001-320

*[2] B71001-314 OPTION TO B71001-321



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

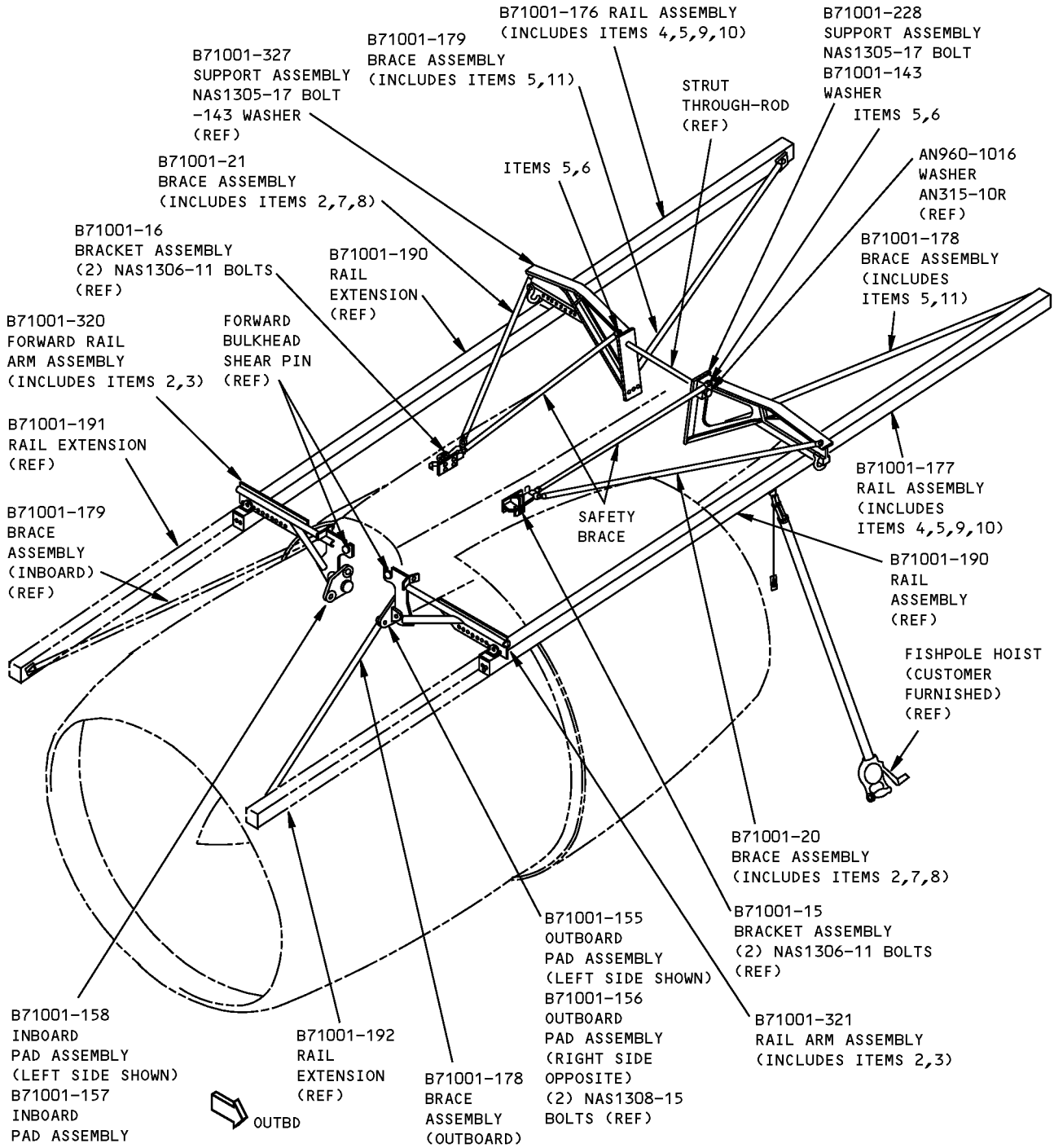
B71001-366		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FORWARD BOOTSTRAP ARM ASSEMBLY	B71001-275
1	FORWARD BOOTSTRAP ARM ASSEMBLY	B71001-276
1	ARM SUPPORT ASSEMBLY	B71001-327
1	ARM SUPPORT ASSEMBLY	B71001-328
1	OUTBOARD PAD ASSEMBLY	B71001-155
1	OUTBOARD PAD ASSEMBLY	B71001-156
1	INBOARD PAD ASSEMBLY	B71001-157
1	INBOARD PAD ASSEMBLY	B71001-158
1	OUTBOARD BRACKET ASSEMBLY	B71001-15
1	INBOARD BRACKET ASSEMBLY	B71001-16
1	CABLE ASSEMBLY	B71001-148
1	BRACE ASSEMBLY	B71001-18
1	BRACE ASSEMBLY	B71001-19
1	BRACE ASSEMBLY	B71001-20
1	BRACE ASSEMBLY	B71001-21
3	DYNAMOMETER ASSEMBLY	B71001-337
2	LEVER HOIST	B71001-369
2	LEVER HOIST	B71001-370
2	WASHER	B71001-143
1	STORAGE BOX	

WEIGHT:
B71001-313 - 235 lbs (107 kg)
B71001-365 - 600 lbs (272 kg)
B71001-366 - 365 lbs (166 kg)

DIMENSIONS:
B71001-313 - 24 x 24 x 120 inches (610 x 610 x 3048 mm)
B71001-365 - 72 x 72 x 204 inches (1829 x 1829 x 5182 mm)
B71001-366 - 48 x 48 x 84 inches (1219 x 1219 x 2134 mm)

NOTE:
B71001-313 supersedes B71001-283.
B71001-365 supersedes B71001-340.
B71001-366 supersedes B71001-341.

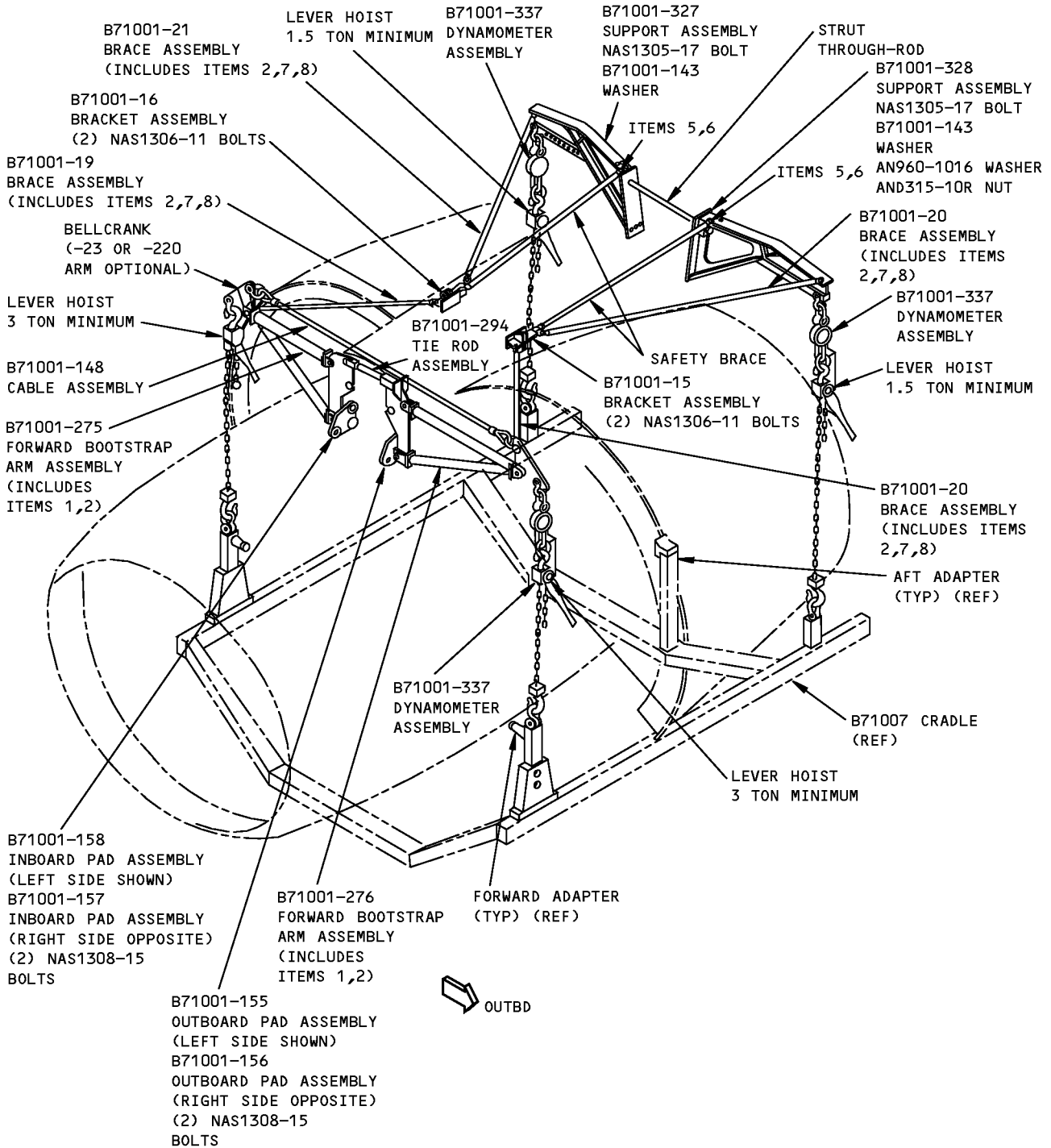
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



ENGINE HANDLING B71001-313 RAIL EQUIPMENT USAGE
LEFT SIDE ENGINE SHOWN
RIGHT SIDE ENGINE OPPOSITE

RB211-535 Engine Handling Equipment
Figure 1 (Sheet 1 of 2)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



ENGINE HANDLING B71001-366 BOOTSTRAP EQUIPMENT
LEFT SIDE ENGINE SHOWN
RIGHT SIDE ENGINE OPPOSITE

RB211-535 Engine Handling Equipment
Figure 1 (Sheet 2 of 2)



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1342C5C2.3D	BALL LOCKPIN	
2	CL-63-KA-10.0	CABLE ASSEMBLY	V99862
3	NAS1342C5C1.3D	BALL LOCKPIN	
4	NAS1336C5C3.0D	BALL LOCKPIN	
5	CL-23-KA-10.0LR	CABLE ASSEMBLY	V99862
6	NAS1334C5C1.1D	BALL LOCKPIN	
7	NAS1336C5C1.1D	BALL LOCKPIN	
8	NAS1335C5C1.3D	BALL LOCKPIN	
9	NAS1336C5C2.0D	BALL LOCKPIN	
10	NAS1336C5C3.3D	BALL LOCKPIN	
11	NAS1335C5C1.1D	BALL LOCKPIN	



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71003-1

NAME: SLING EQUIPMENT - ENGINE NOSE COWL, RB211-535

AIRPLANE MAINTENANCE: YES

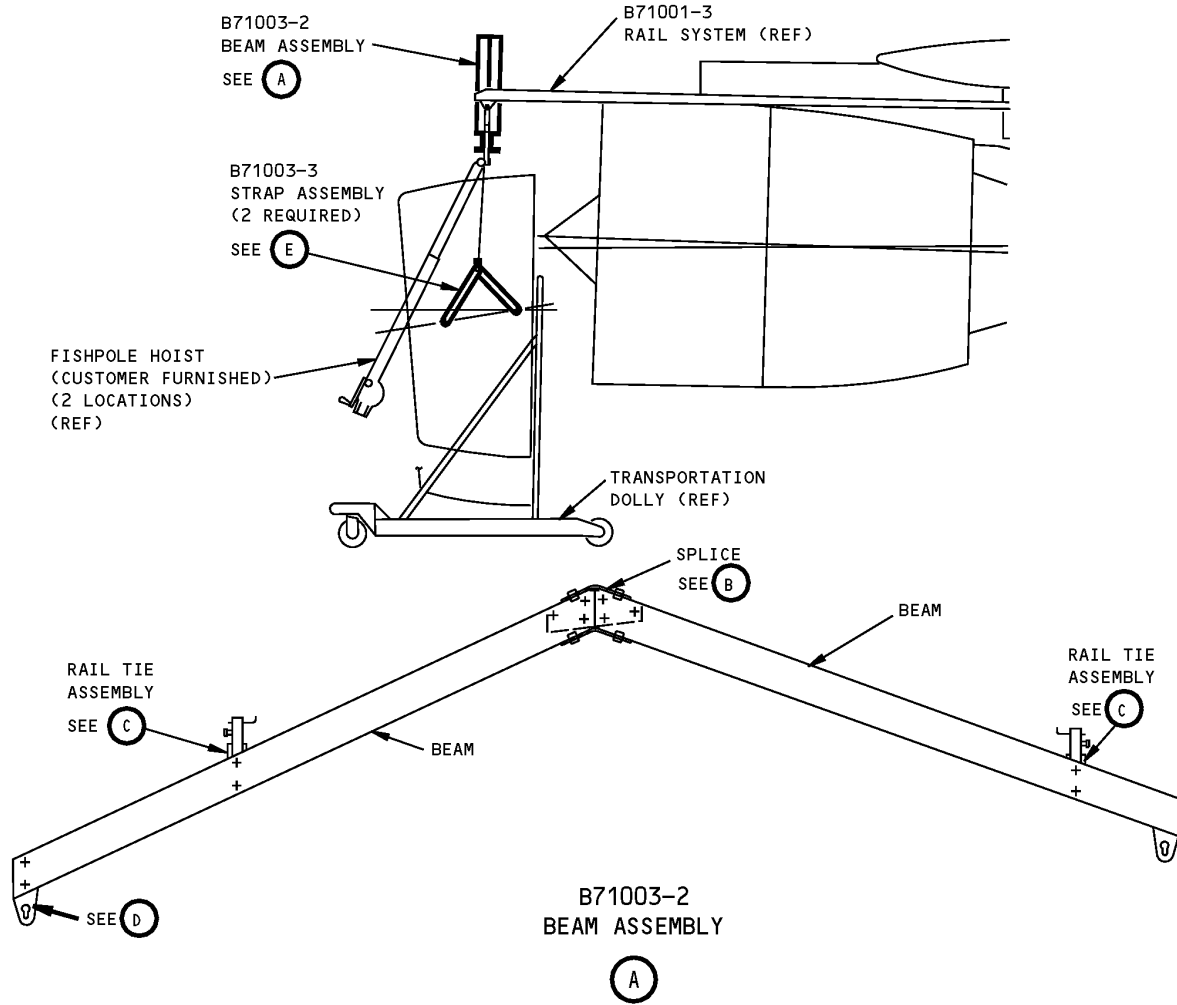
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71003-1 sling equipment is used on 757 airplanes equipped with RB211-535 engines. The B71003 is used with customer-furnished B71001-3 rail equipment and a transportation dolly to remove or install the engine nose cowl. Refer to the current B71001 and B71003 drawings for complete usage instructions. B71003-1 consists of B71003-2 beam assembly and a B71003-3 strap assembly, both contained in a storage box.

WEIGHT: 30 lbs (14 kg)

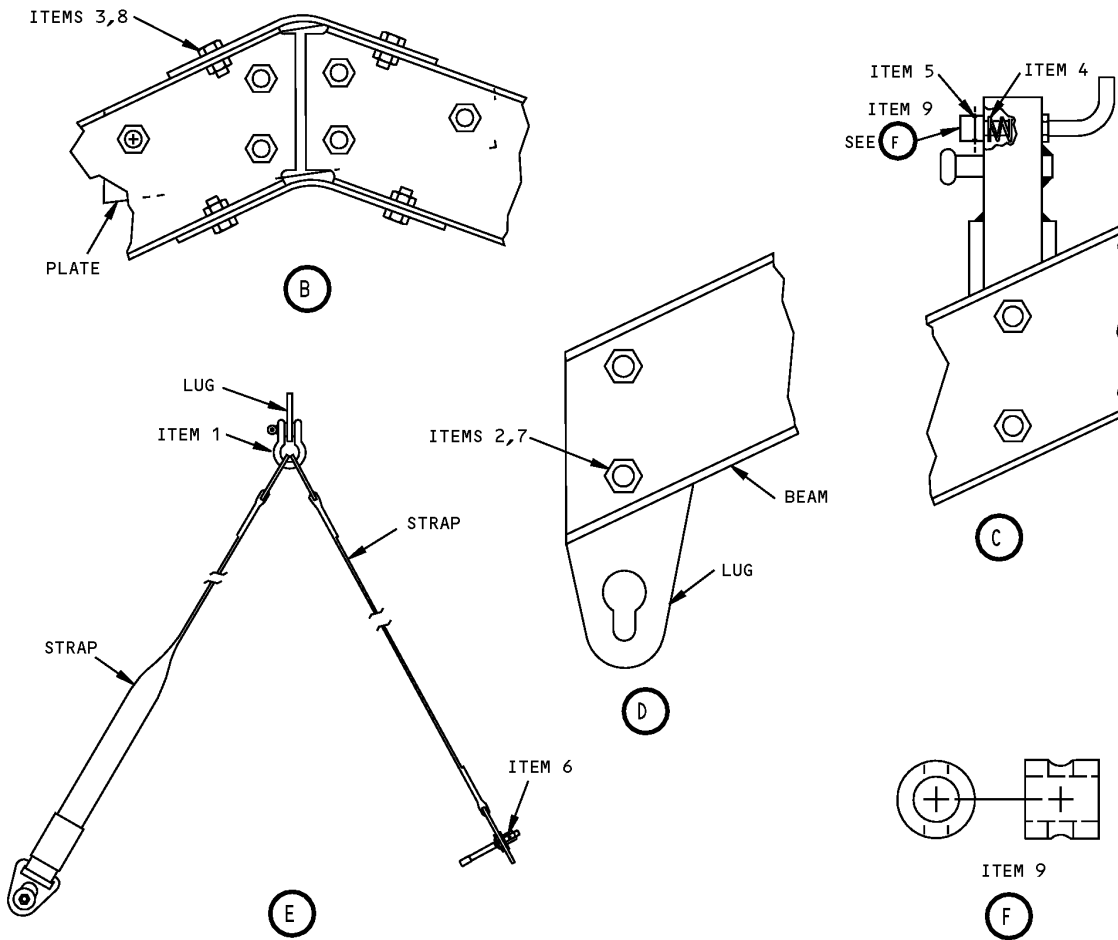
DIMENSIONS: 4 x 30 x 100 inches (102 x 762 x 2540 mm)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**RB211-535 Engine Nose Cowl Sling Equipment
Figure 1 (Sheet 1 of 2)**

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



RB211-535 Engine Nose Cowl Sling Equipment
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	G-209-7/16	SHACKLE	V75535
2	NAS679-A6	NUT	
3	NAS679-A4	NUT	
4	MS24585-C366	SPRING	
5	MS16562-32	SPRING PIN	
6	MS16562-34	SPRING PIN	
7	AN6-12A	BOLT	
8	AN4-5A	BOLT	



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
9	B71003-22	COLLAR	



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71005-48, -49, -50, -51, -52, -53

NAME: TOOL SET - RB211-535 ENGINE CHANGE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71005-48,-50 or -52 (B71005-52 preferred) tool sets are all used on RB211-535-C engines (757-200 only). The B71005-49,-51 or -53 (B71005-53 preferred) tool sets are all used on RB211-535-E4 engines (all 757). The B71005-48,-49,-50,-52 and -53 tool sets consist of various Snap-On Industrial wrenches, sockets, breaker bars and torqometers. It also contains NAS standard ball lockpins and streamers, Boeing designed adapters and three special Boeing tools (B78001-1, thrust reverser isolation valve lock and B71009-1 and B71009-9, "C" duct actuator locks). The components have various applications during engine removal or installation. Refer to AMM 71-00-02 for complete instructions.

The B71005 tool kits consist of:

B71005-52		
QUANTITY	NOMENCLATURE	PART NUMBER
1	ADAPTER	B71005-28
2	PIN & STREAMER ASSEMBLY	B71005-10
1	WRENCH ASSEMBLY	B71005-11
2	"C" DUCT ACTUATOR LOCK	B71009-1
1	THRUST REVERSER ISOLATION VALVE LOCK	B78001-1
1	BREAKER BAR HANDLE	L872RJ
1	BREAKER BAR HANDLE	L872RM
2	BREAKER BAR HEAD	L8112A
1	13/16" SOCKET, 3/4" DRIVE	LDH262
1	15/16" SOCKET, 3/4" DRIVE	LDH302
1	TORQOMETER, 1/2" DRIVE	TE250FU
1	TORQOMETER, 3/4" DRIVE	TE602FUA
1	RATCHET, COMPACT 1/2" DRIVE	S936
1	13/16" SOCKET, 1/2" DRIVE	SW261
1	15/16" SOCKET, 1/2" DRIVE	SW301
1	BREAKER BAR, 3/8" DRIVE	F10LB
1	CROWFOOT WRENCH, 3/8" DRIVE	FC032A
1	RATCHET, LONG, 1/2" DRIVE	SL936



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

B71005-52		
QUANTITY	NOMENCLATURE	PART NUMBER
1	TORQOMETER, 3/8" DRIVE	TE50A
1	6" EXTENSION BAR	1MX52
1	STORAGE BOX	

B71005-53		
QUANTITY	NOMENCLATURE	PART NUMBER
1	ADAPTER	B71005-28
2	PIN & STREAMER ASSEMBLY	B71005-10
1	WRENCH ASSEMBLY	B71005-11
2	"C" DUCT ACTUATOR LOCK	B71009-9
1	THRUST REVERSER ISOLATION VALVE LOCK	B78001-1
1	BREAKER BAR HANDLE	L872RJ
1	BREAKER BAR HANDLE	L872RM
2	BREAKER BAR HEAD	L8112A
1	13/16" SOCKET, 3/4" DRIVE	LDH262
1	15/16" SOCKET, 3/4" DRIVE	LDH302
1	TORQOMETER, 1/2" DRIVE	TE250FU
1	TORQOMETER, 3/4" DRIVE	TE602FUA
1	RATCHET, COMPACT 1/2" DRIVE	S936
1	13/16" SOCKET, 1/2" DRIVE	SW261
1	15/16" SOCKET, 1/2" DRIVE	SW301
1	BREAKER BAR, 3/8" DRIVE	F10LB
1	CROWFOOT WRENCH, 3/8" DRIVE	FC032A
1	RATCHET, LONG, 1/2" DRIVE	SL936
1	TORQOMETER, 3/8" DRIVE	TE50A
1	6" EXTENSION BAR	1MX52
1	STORAGE BOX	

WEIGHT: 41 lbs (19 kg)

DIMENSIONS: 12 x 24 x 48 inches (305 x 610 x 1219 mm)



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

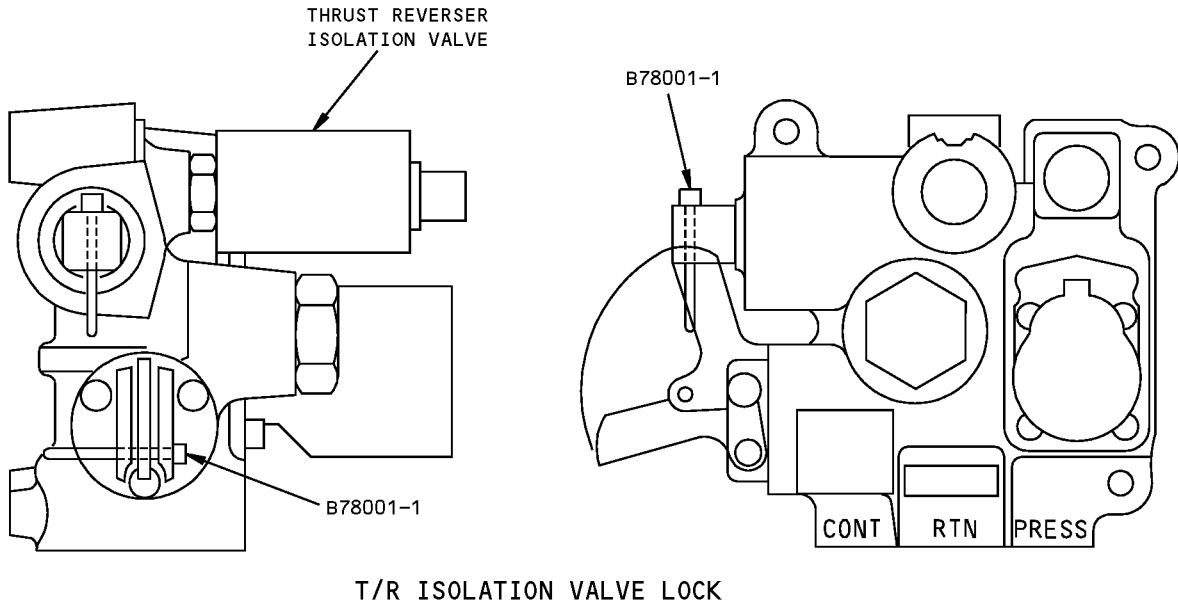
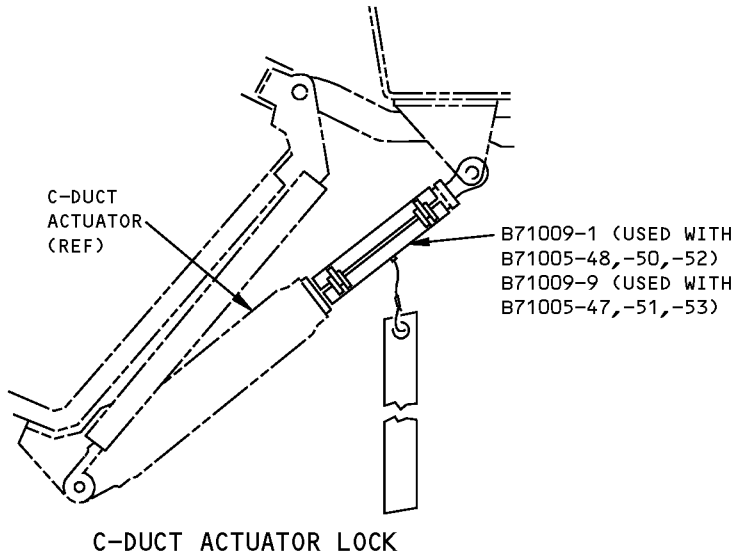
NOTE:

B71005-48,-49,-50,-51,-52 and -53 supersede -1,-19,-26,-27,-35 and -36 respectively.

B71005-52 replaces -48 and -50 for future procurement.

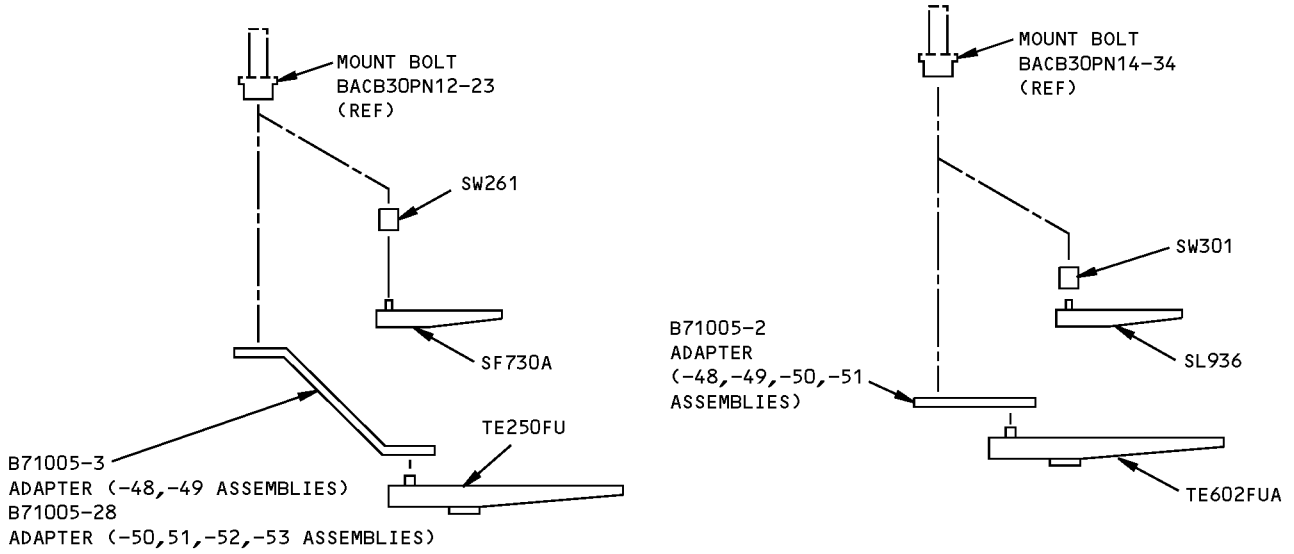
B71005-53 replaces -49 and -51 for future procurement.

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**RB211-535 Engine Change Tool Set
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

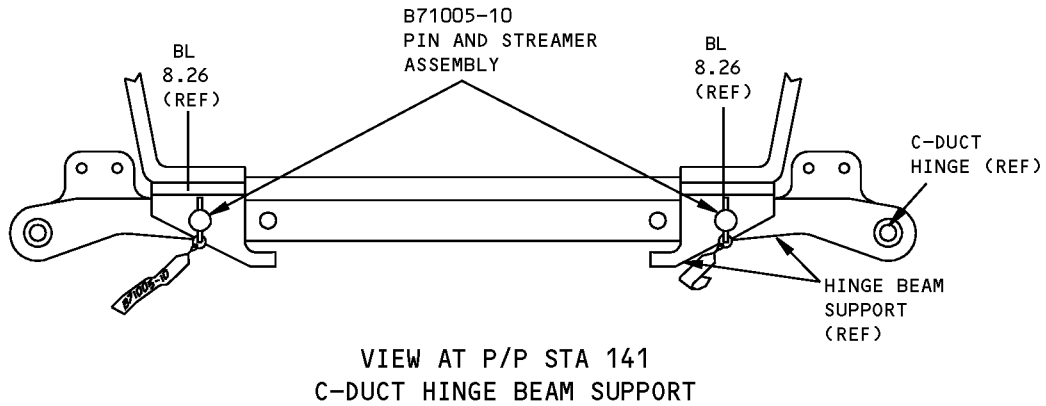


NOTE: B71005-3 ADAPTER USED ON B71005-48 AND -49 ASSEMBLIES.
B71005-28 ADAPTER USED ON B71005-50,-51,-52,-53 ASSEMBLIES.

AFT MOUNT INSTALLATION

FORWARD MOUNT INSTALLATION

FLIGHT MOUNT BOLTS



**RB211-535 Engine Change Tool Set
Figure 1 (Sheet 2 of 2)**

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71008-1

NAME: PROOF LOAD EQUIPMENT - RB211-535 ENGINE

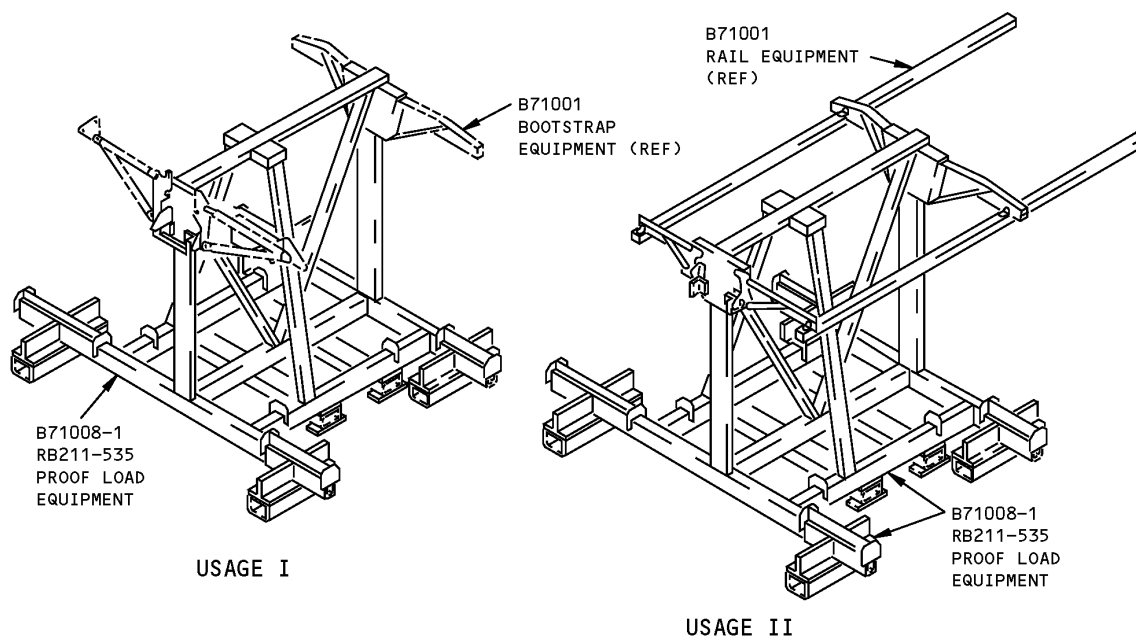
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71008-1 proof load equipment is used to proof load the B71001 engine handling equipment, used on 757 airplanes equipped with RB211-535 engines. B71008 simulates a variety of working loads, such as nose cowl removal loads, 'C' cowl removal loads, misaligned bootstrap loads and exhaust nozzle removal loads. Refer to the current B71001 and B71008 drawings for complete usage instructions. B71008-1 consists of a B71008-2 proof load assembly, a B71008-38 feet fixture and connecting hardware.

WEIGHT: 2900 lbs (1315 kg)

DIMENSIONS: 72 x 123 x 128 inches (1829 x 3124 x 3251 mm)



RB211-535 Engine Proof Load Equipment
Figure 1

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71009-1, -9

NAME: LOCK - 'C' DUCT ACTUATOR, RB211-535 ENGINE

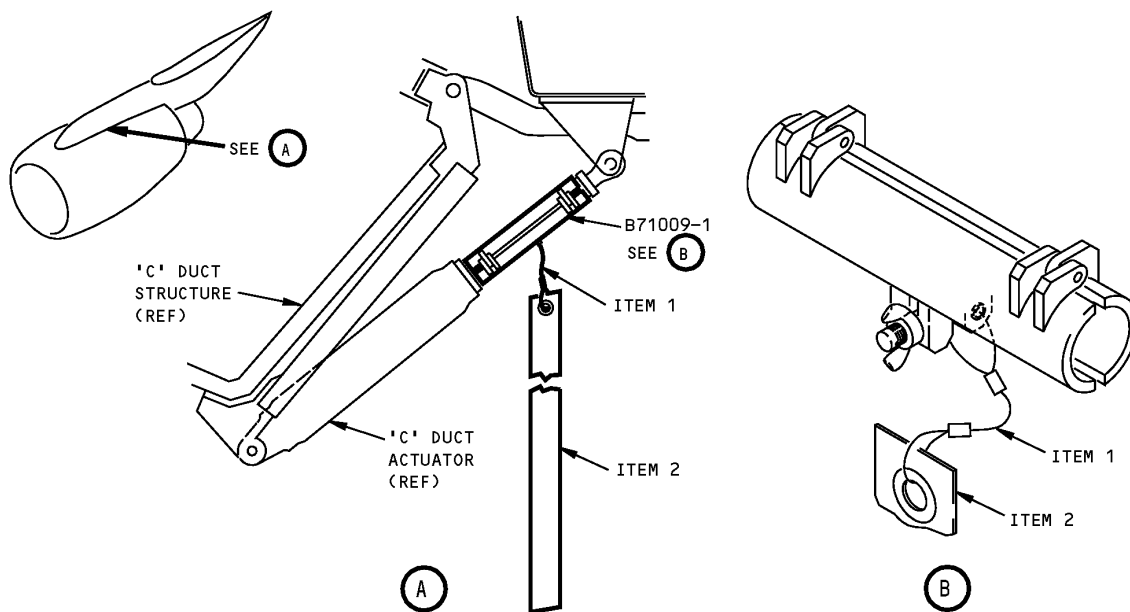
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71009-1 lock is used on 757 airplanes equipped with RB211-535C engines. The B71009-9 lock is used on 757 airplanes equipped with RB211-535E4 engines. The B71009 locks are used to support the "C" duct in the open position after the engine has been removed. B71009 is a hinged tubular assembly that wraps around the 'C' duct actuator, locking the 'C' duct into the open position. B71009-1 consists of a B71009-2 tube assembly, a B71009-3 tube assembly and connecting hardware. B71009-9 consists of a B71009-10 tube assembly, a B71009-11 tube assembly and connecting hardware.

WEIGHT: 2 lbs (0.9 kg)

DIMENSIONS: 3 x 7 x 20 inches (51 x 76 x 178 mm)



**RB211-535 Engine 'C' Duct Actuator Lock
Figure 1**

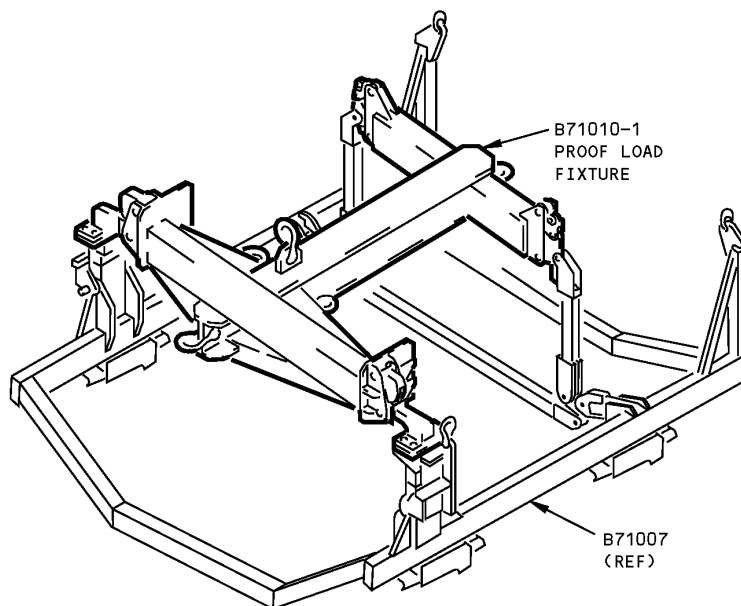


757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-21-KA-12.0LR	CABLE ASSEMBLY	V99862
2	NAS1756-24	WARNING STREAMER	

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71010-1**NAME:** PROOF LOAD FIXTURE - RB211-535 ENGINE CRADLE**AIRPLANE MAINTENANCE:** NO**COMPONENT MAINTENANCE:** NO**USAGE & DESCRIPTION:** The B71010-1 proof load fixture is used to proof load the B71007 engine cradle, used on 757 airplanes equipped with RB211-535 engines. Refer to the current B71007 and B71010 drawings for complete usage instructions. B71010-1 consists of a B71010-2 proof load assembly and connecting hardware.**WEIGHT:** 1500 lbs (680 kg)**DIMENSIONS:** 36 x 101 x 112 inches (914 x 2565 x 2845 mm)

RB211-535 Engine Cradle Proof Load Fixture
Figure 1



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71015-1

NAME: SLING - RB211-535 ENGINE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: YES

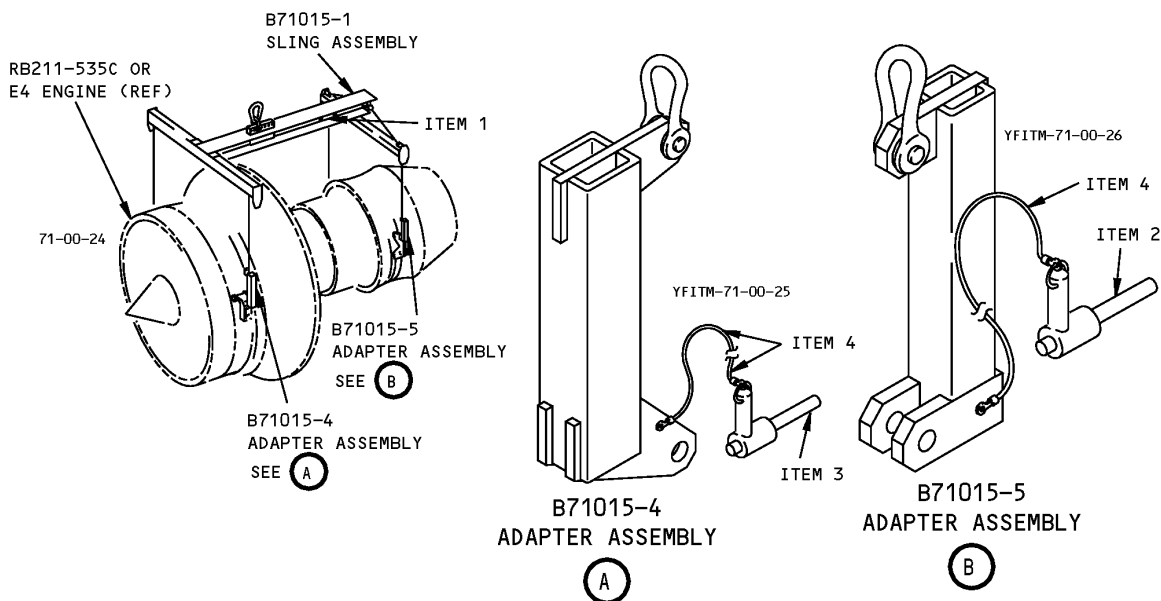
USAGE & DESCRIPTION: The B71015-1 sling is used on 757 airplanes equipped with RB211-535 engines. The B71015 sling requires the B71010 engine cradle proof load fixture for proof load testing. B71015 is used for both bare and built-up engine handling off the airplane. B71015 is used in conjunction with, two Roll-Royce CP30350 fittings and two Roll-Royce CP30379 fittings for both usage and proof load testing. B71015 is not usable for engine installation or removal. Refer to the current B71015 drawing for usage instructions. B71015-1 consists of:

B71015-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	BEAM ASSEMBLY	B71015-2
1	SPREADER BAR ASSEMBLY	B71015-3
2	ADAPTER ASSEMBLY	B71015-4
2	ADAPTER ASSEMBLY	B71015-5
1	PLATE	B71015-6
2	CABLE ASSEMBLY	B71015-7
2	CABLE ASSEMBLY	B71015-8
2	CABLE ASSEMBLY	B71015-9
VARIOUS	CONNECTING HARDWARE	

WEIGHT: 600 lbs (272 kg)

DIMENSIONS: 24 x 84 x 96 inches (610 x 2134 x 2438 mm)

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



RB211-535 Engine Sling
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	F70308-15	PROOF LOAD TAG	
2	NAS1341C5C2.1D	BALL LOCK PIN	
3	NAS1343C5C2.1D	BALL LOCK PIN	
4	CL-63-KA-10.0	CABLE ASSEMBLY	V99862



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A71015-107

NAME: LIFT FIXTURE - ENGINE ACCESSORY

AIRPLANE MAINTENANCE: YES

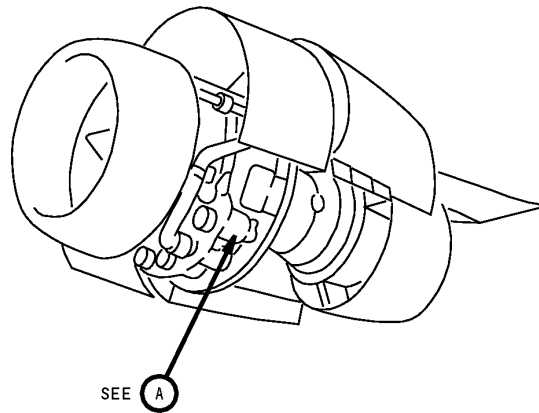
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A71015-107 lift fixture is used on all 757 airplanes. A71015-107 lift fixture and specific adapters are connected to the lift arm of A71015 to remove and install various airplane components. A71015 lift fixture is used with the A71013 hoist adapter to remove and install the integrated drive generator. A71015 is also used with A21001 hoist adapter to remove and install an air conditioning pack and heat exchanger. A71015 may be used to remove and install components on 737-600 though -900, 747 and 767 airplanes. A71015

WEIGHT: 400 lbs (181 kg)

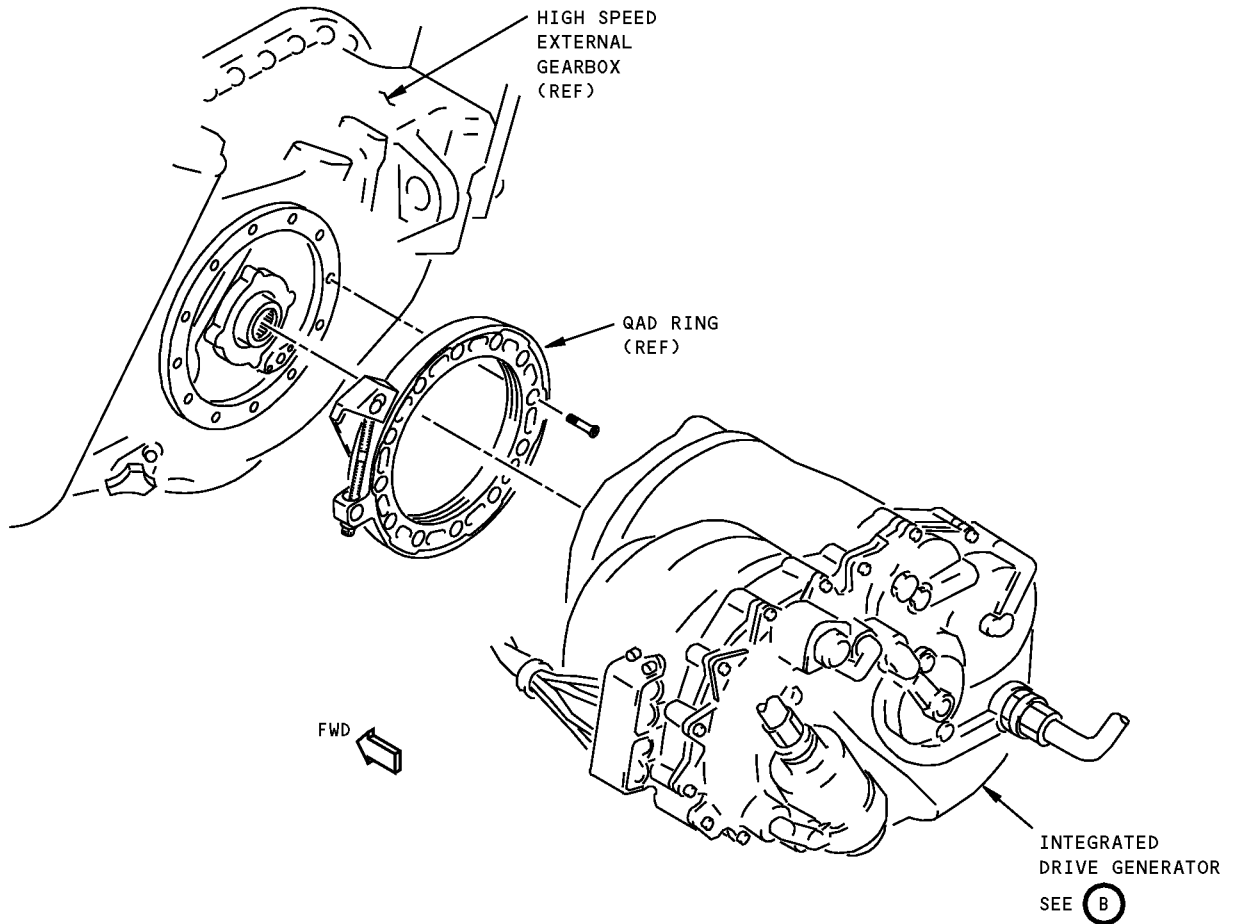
DIMENSIONS: 30 x 50 x 90 inches (762 x 1270 x 2286 mm)

NOTE: A71015-107 supersedes A71015-93.
A71015 replaces G24011 for future procurement.
A71015 supersedes PME65B89603.



**Engine Accessory Lift Fixture
Figure 1 (Sheet 1 of 3)**

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

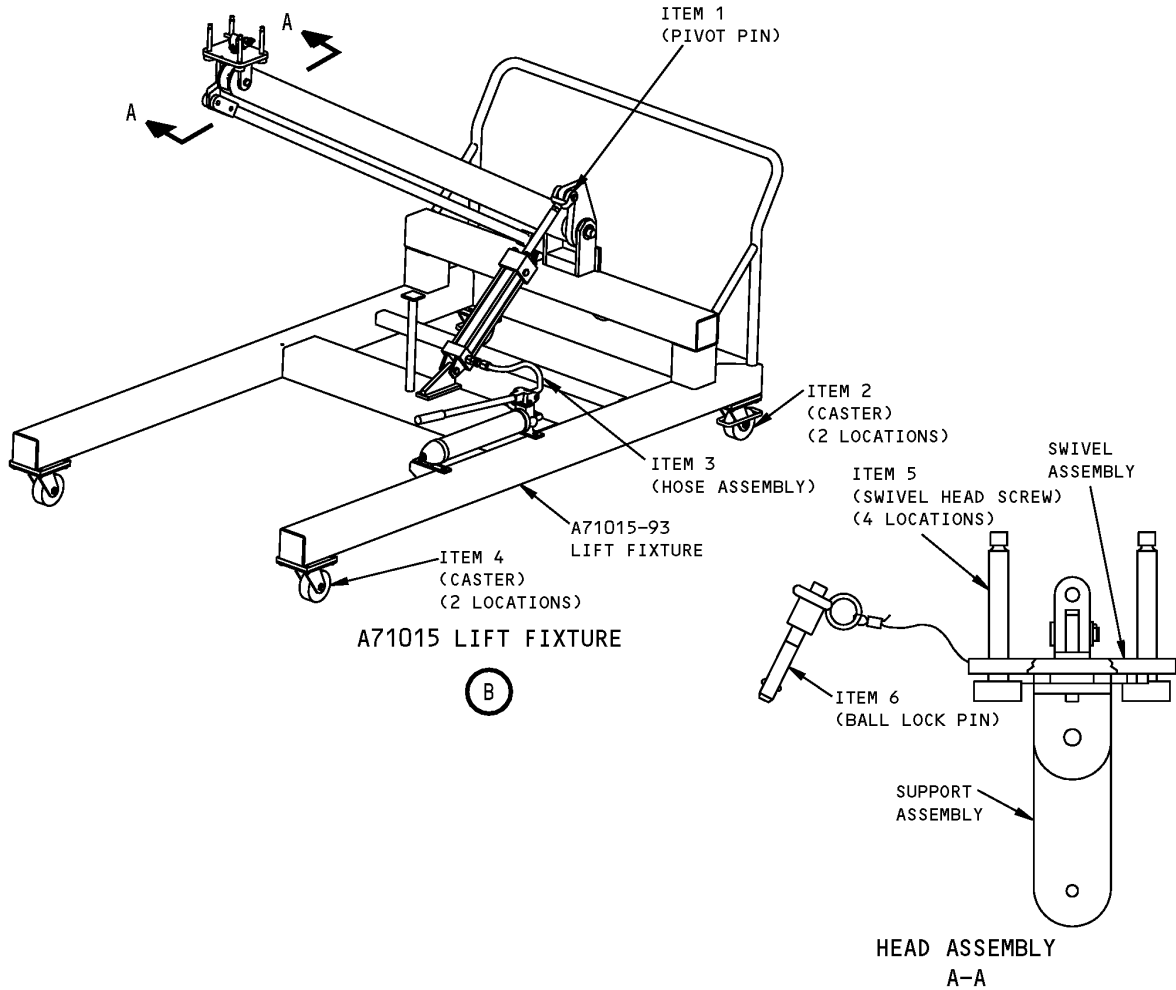


INTEGRATED DRIVE GENERATOR INSTALLATION

(A)

Engine Accessory Lift Fixture
Figure 1 (Sheet 2 of 3)

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Engine Accessory Lift Fixture
Figure 1 (Sheet 3 of 3)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	68369	PIVOT PIN	V12018
2	12PD04123SLWB01	CASTER	V0U033
3	R201**0606080808-24	HOSE ASSEMBLY	V87373
4	12PD04123SL	CASTER	V0U033
5	CL-37-SHS	SWIVEL HEAD SCREW	V99862
6	NAS1356C3C20D	BALL LOCK PIN	



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A71013-19, -32, -55, -82

NAME: HOIST ADAPTER - INTEGRATED DRIVE GENERATOR (IDG)

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A71013 hoist adapter equipment is used on all 757 airplanes. An A71013 hoist adapter (and possibly an A71013 spacer) in combination with an A71015 lift fixture (or acceptable commercial jack) is required to remove/install the Integrated Drive Generator (IDG) on all 757 airplanes. The A71013-32 and -55 are hoist adapters. The A71013-82 is a hoist adapter assembly. The A71013-19 is a spacer assembly. Refer to AMM 24-11-01 for complete IDG removal/installation instructions. Information on the A71013 adapter/spacer/jack/lift fixture compatibility is included below. Refer to the A71013 drawing for the most current, complete information. To remove or install the integrated drive generator on all 757 airplanes equipped with RB211-535 or PW2000 engines: 1) Either the A71013-32 hoist adapter or the A71013-55 hoist adapter is used together with an A71015 lift fixture. 2) Use an A71013-19 spacer and an A71013-32 hoist adapter or an A71013-55 hoist adapter, together with either W93718, W93720 or W93724 Clore automotive jacks. 3) Use an A71013-82 hoist adapter assembly together with an A71015 lift fixture. 4) Use an A71015-19 spacer assembly and an A71015-82 hoist adapter assembly together with either W93718, W93720 or W93724 Clore automotive jacks. A71013-19, -32, -55 and -82 consists of:

A71013-19 SPACER		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FRAME ASSEMBLY	A71013-20
VARIOUS	CONNECTING HARDWARE	

A71013-32 HOIST ADAPTER		
QUANTITY	NOMENCLATURE	PART NUMBER
1	NEST PAD	A71013-33
1	STRAP ASSEMBLY	A71013-34
1	ADAPTER ASSEMBLY	A71013-35
1	NEST PAD	A71013-36
2	PAD	A71013-37
2	PAD	A71013-39
1	CLAMP TOP	A71013-17
2	BOLT	AN4-5A



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

A71013-55 HOIST ADAPTER		
QUANTITY	NOMENCLATURE	PART NUMBER
1	HOIST ASSEMBLY	A71013-56
1	CLEVIS ASSEMBLY	A71013-57
1	PAD	A71013-58
1	STRAP ASSEMBLY	A71013-59
1	BOLT	AN4C27
1	BOLT	AN6C6
1	WASHER	NAS1149C0432
1	WASHER	NAS1149FN542P
1	NUT	MS21044C4
2	LOCK WASHER	MS35338-84
1	BALL LOCK PIN	NAS1336C5C4.5
1	SPACER	NAS43DD-0-8
1	SCREW	NAS600-5
1	CABLE ASSEMBLY	CL-23-KA-6.0L
1	CABLE ASSEMBLY	CL-23-KA-12.0LR

A71013-82 HOIST ADAPTER		
QUANTITY	NOMENCLATURE	PART NUMBER
1	HOIST ASSEMBLY	A71013-83
1	CLEVIS ASSEMBLY	A71013-57
1	RUBBER PAD	A71013-84
1	RUBBER PAD	A71013-85
1	STRAP	A71013-81
2	BOLT	AN6C6
1	WASHER	NAS1149FN542P
2	LOCK WASHER	MS35338-84
1	SPACER	NAS43DD-0-8
1	SCREW	NAS600-5
1	LANYARD	CL-23-KA-6.0LR
1	LANYARD	CL-23-KA-12.0LR
1	RATCHET	FE 7700-1

WEIGHT:

A71013-19 - 12 lbs (5 kg)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

A71013-32 - 30 lbs (14 kg)

A71013-55 - 30 lbs (14 kg)

A71013-82 - 9 lbs (4.1 kg)

DIMENSIONS:

A71013-19 - 3 x 11 x 12 inches (76 x 279 x 305 mm)

A71013-32 - 8 x 10 x 17 inches (203 x 254 x 432 mm)

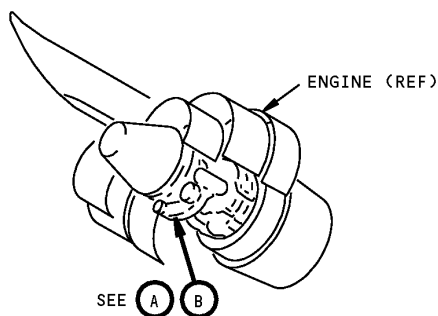
A71013-55 - 8 x 10 x 17 inches (203 x 254 x 432 mm)

A71013-82 - 9 x 9 x 18 inches (229 x 229 x 457 mm)

NOTE:

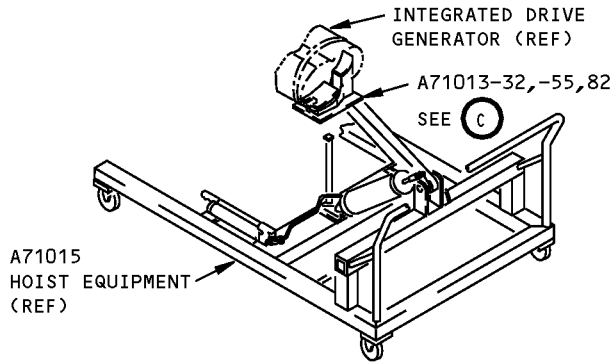
A71013-82 supersedes A71013-70.

A71013-82 replaces A71013-55 for future procurement.

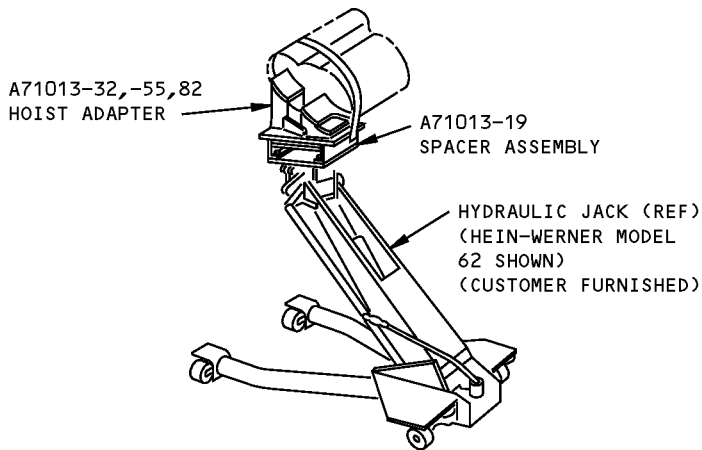


**IDG Hoist Adapter
Figure 1 (Sheet 1 of 2)**

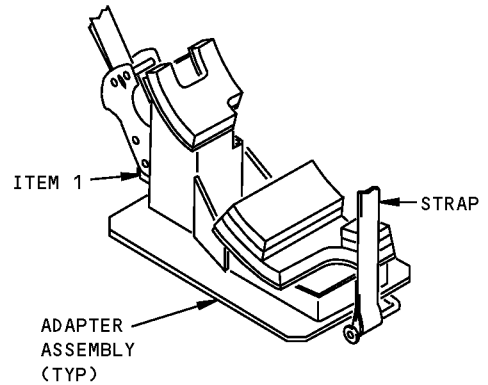
757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



(A)



(B)



(C)

IDG Hoist Adapter
Figure 1 (Sheet 2 of 2)



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	AN4-5A	BOLT	



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71014-3, -98, -130, -131, -132, -133 WAS MOVED TO 78-30-27



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71017-15 WAS MOVED TO 78-30-28



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B78002-18, -36 WAS MOVED TO 78-30-29



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71016-1 WAS MOVED TO 78-30-30



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71021-1

NAME: PROOF LOAD FIXTURE - ENGINE HANDLING EQUIPMENT, PW2000 SERIES

AIRPLANE MAINTENANCE: YES

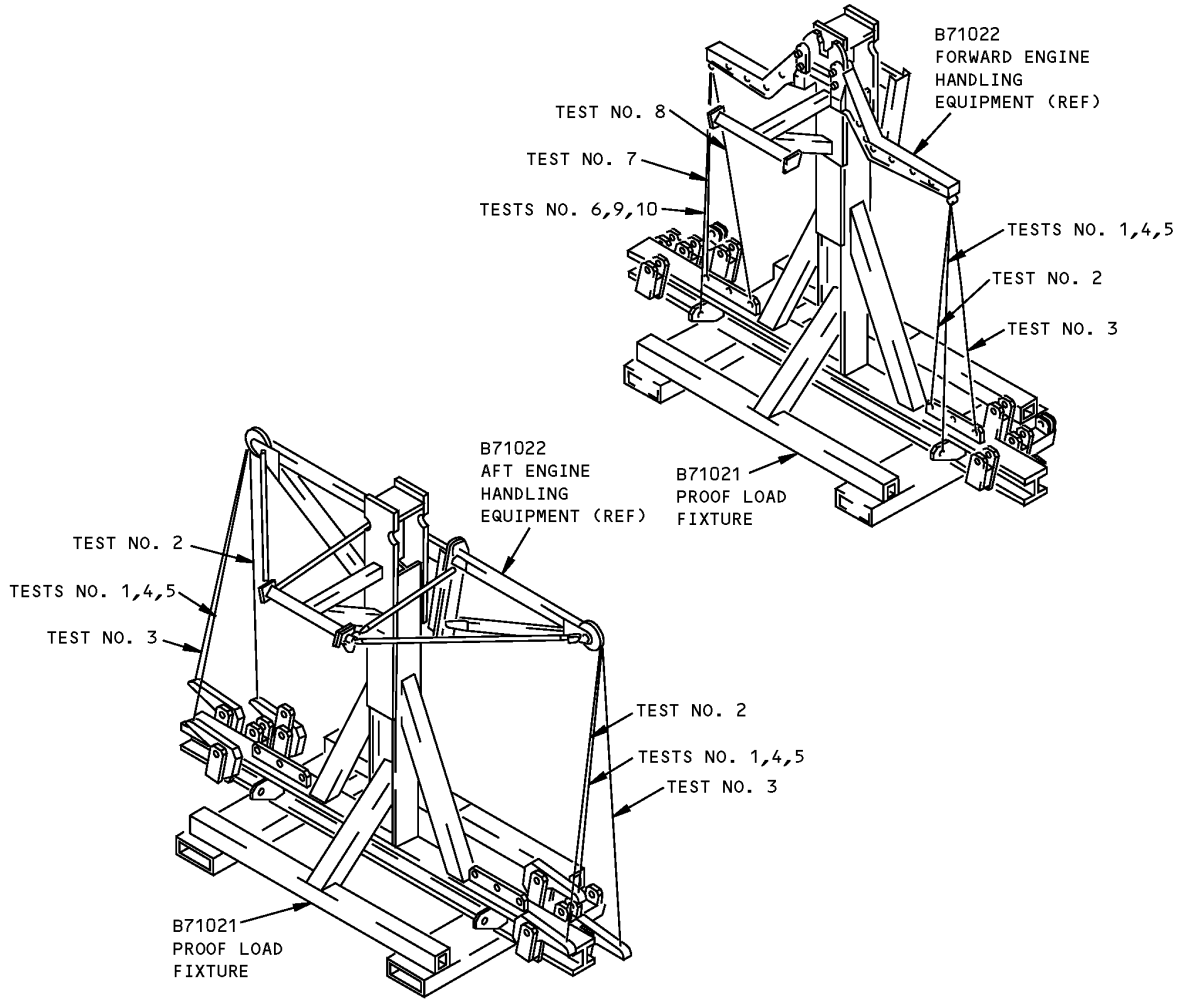
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71021-1 proof load fixture is used to proof load the B71022 engine handling equipment, which is used on all 757 airplanes equipped with PW2000 engines. Refer to the current B71022 and B71021 drawing for complete usage instructions. B71021-1 consists of a B71021-2 fixture assembly and two B71021-17 pins.

WEIGHT: 1150 lbs (522 kg)

DIMENSIONS: 49 x 93 x 109 inches (1245 x 2362 x 2769 mm)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**PW2000 Series Engine Handling Equipment Proof Load Fixture
Figure 1**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71022-172

NAME: ENGINE HANDLING EQUIPMENT - PW2000 SERIES

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71022-172 engine handling equipment is used on all 757 airplanes equipped with PW2000 series engines. B71022 is used in conjunction with a customer-furnished cradle/transporter, fabricated per Pratt and Whitney specification, PWA-PPS1816B and B71020 hold open equipment. B71022 is an engine bootstrap hoist, which fastens to the engine strut. Refer to AMM 71-00-02 for complete usage instructions. B71022-172 consists of:

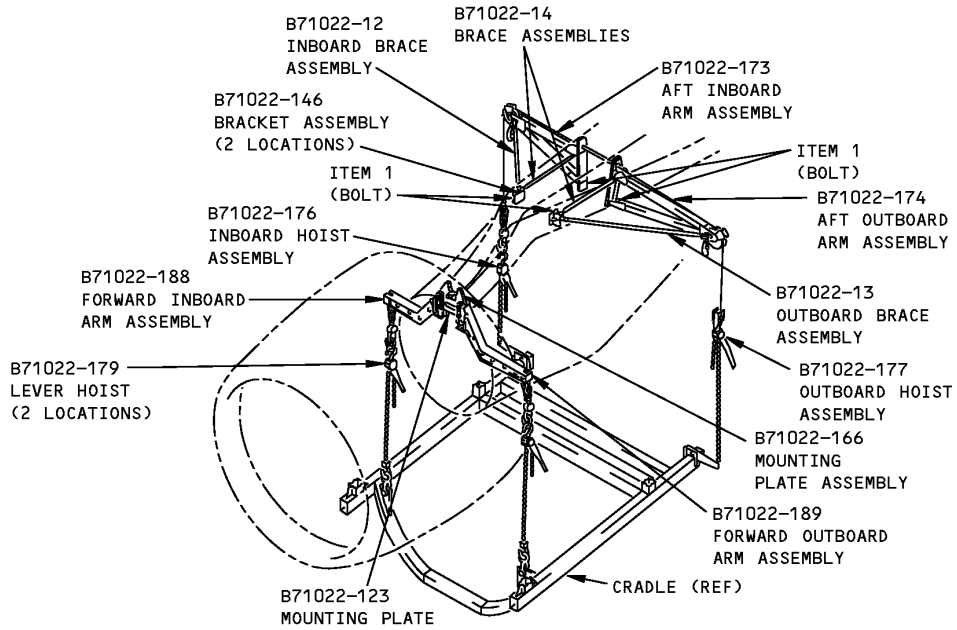
B71022-172		
QUANTITY	NOMENCLATURE	PART NUMBER
1	MOUNTING PLATE	B71022-123
1	MOUNTING PLATE ASSEMBLY	B71022-166
1	FORWARD INBOARD ARM ASSEMBLY	B71022-188
1	FORWARD OUTBOARD ARM ASSEMBLY	B71022-189
1	AFT INBOARD ARM ASSEMBLY	B71022-173
1	AFT OUTBOARD ARM ASSEMBLY	B71022-174
1	INBOARD HOIST ASSEMBLY	B71022-176
1	OUTBOARD HOIST ASSEMBLY	B71022-177
2	BRACKET ASSEMBLY	B71022-146
1	INBOARD BRACE ASSEMBLY	B71022-12
1	OUTBOARD BRACE ASSEMBLY	B71022-13
2	BRACE ASSEMBLY	B71022-14
2	LEVER HOIST	B71022-179
2	JAW END	G-403-7/8
1	STORAGE BOX	

WEIGHT: 450 lbs (204 kg)

DIMENSIONS: 48 x 60 x 84 inches (1219 x 1524 x 2134 mm)

NOTE: B71022-172 supersedes B71022-152.

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



437232 S0000211819_V2

PW2000 Series Engine Handling Equipment
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	BACB30LT6-14	BOLT	



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71027-1

NAME: SLING - ENGINE HANDLING, PW2000 SERIES ENGINES

AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

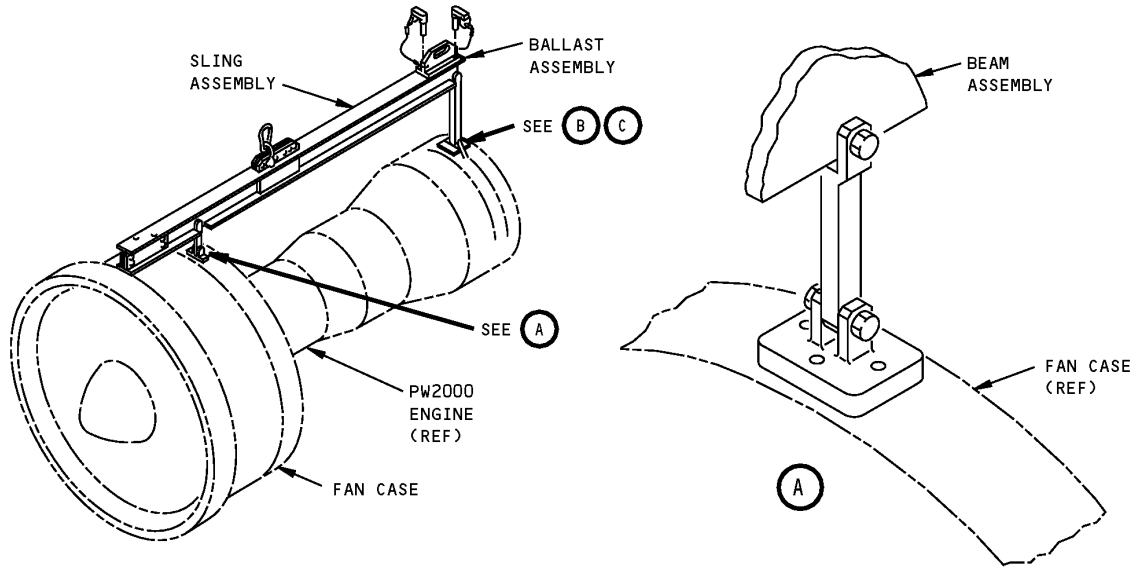
USAGE & DESCRIPTION: The B71027-1 sling is used on 757 airplanes equipped with PW2000 series engines. B71027 is used for shop handling of the PW2000 Series engines with or without the nose cowl. Refer to the current B71027 drawing and the PW2000 Powerplant Buildup Manual for complete usage instructions. B71027-1 consists of:

B71027-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	BEAM ASSEMBLY	B71027-2
1	BALLAST ASSEMBLY	B71027-3
2	LINK ASSEMBLY	B71027-4
1	PAD ASSEMBLY	B71027-5
1	LUG	B71027-6
1	LINK	B71027-7
1	PAD	B71027-8
2	WEIGHT	B71027-21
VARIOUS	CONNECTING HARDWARE	

WEIGHT: 475 lbs (215 kg)

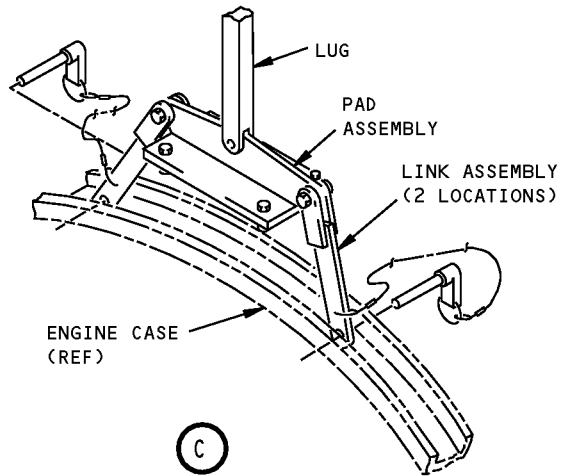
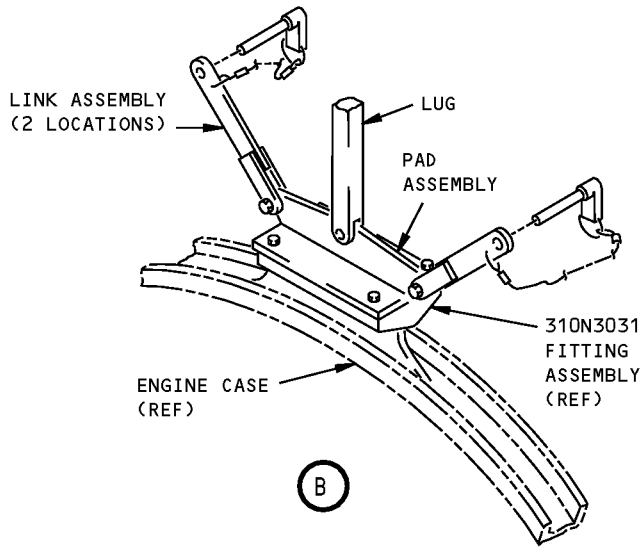
DIMENSIONS: 18 x 42 x 125 inches (457 x 1067 x 3175 mm)

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



B71027-1 sling
Figure 1 (Sheet 1 of 2)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**B71027-1 sling
Figure 1 (Sheet 2 of 2)**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B54009-19 WAS MOVED TO 54-50-14



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71019

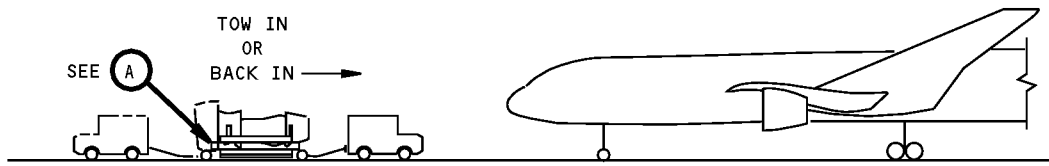
NAME: REFERENCE INFORMATION - RB211-535 ENGINE HANDLING EQUIPMENT

AIRPLANE MAINTENANCE: YES

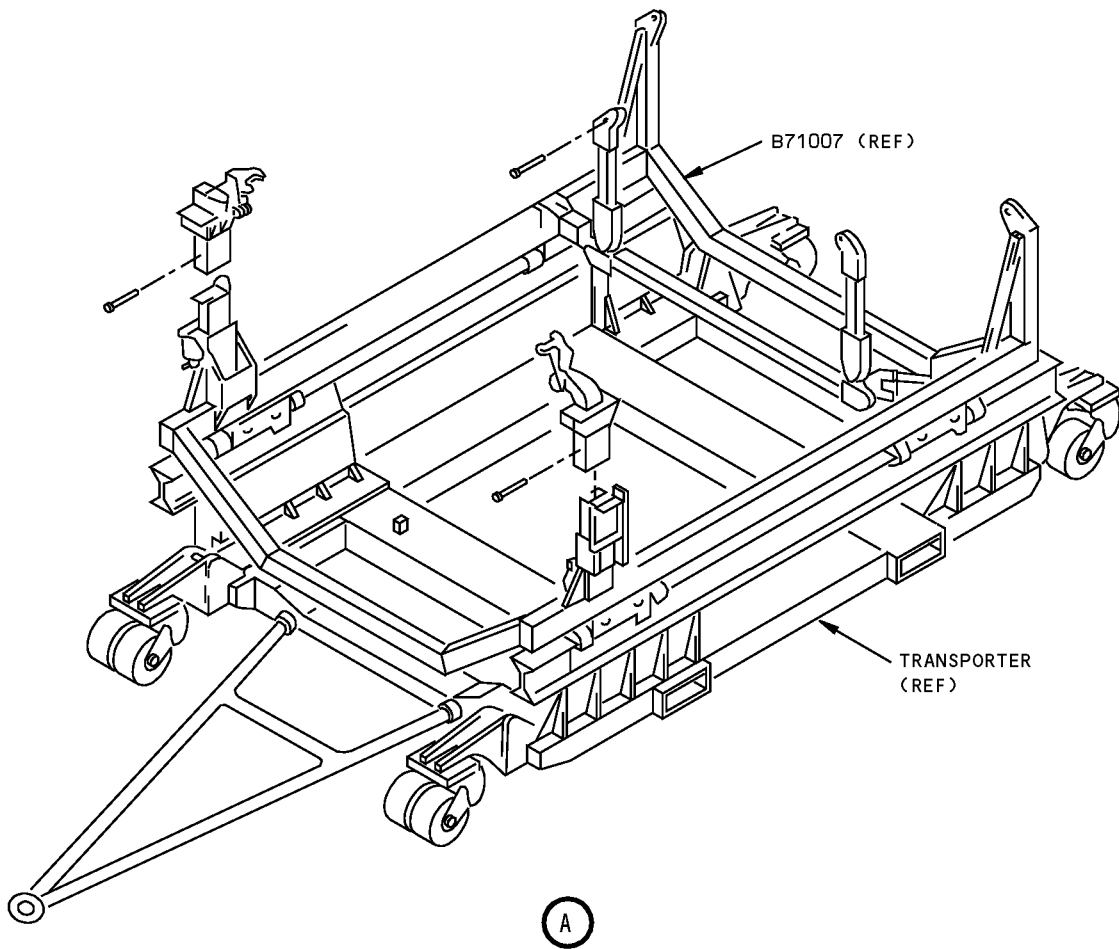
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71019 reference information is used on 757 airplanes equipped with RB211-535 engines. B71019 is not a tool but provides reference information on datum, dimensional and angular references for the B71001 engine handling equipment and the B71007, RB211-535 engine handling cradle. The information for B71001 includes both the engine handling bootstrap equipment (used for complete engine removal) and the engine handling rail equipment (used for engine component removal). Refer to the current B71001, B71007, B71019 drawings and AMM 71-00-02 for complete engine/component removal or installation usage instructions.

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



757 RB211-535C OR -535E4 ENGINE INSTALLATION USING STANG 110059-501 OR -606 TRANSPORTER EQUIPMENT



RB211-535 Engine Handling Equipment Reference Information
Figure 1



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B73001-1

NAME: WRENCH - ENGINE TRIM ADJUSTMENT, RB211-535

AIRPLANE MAINTENANCE: YES

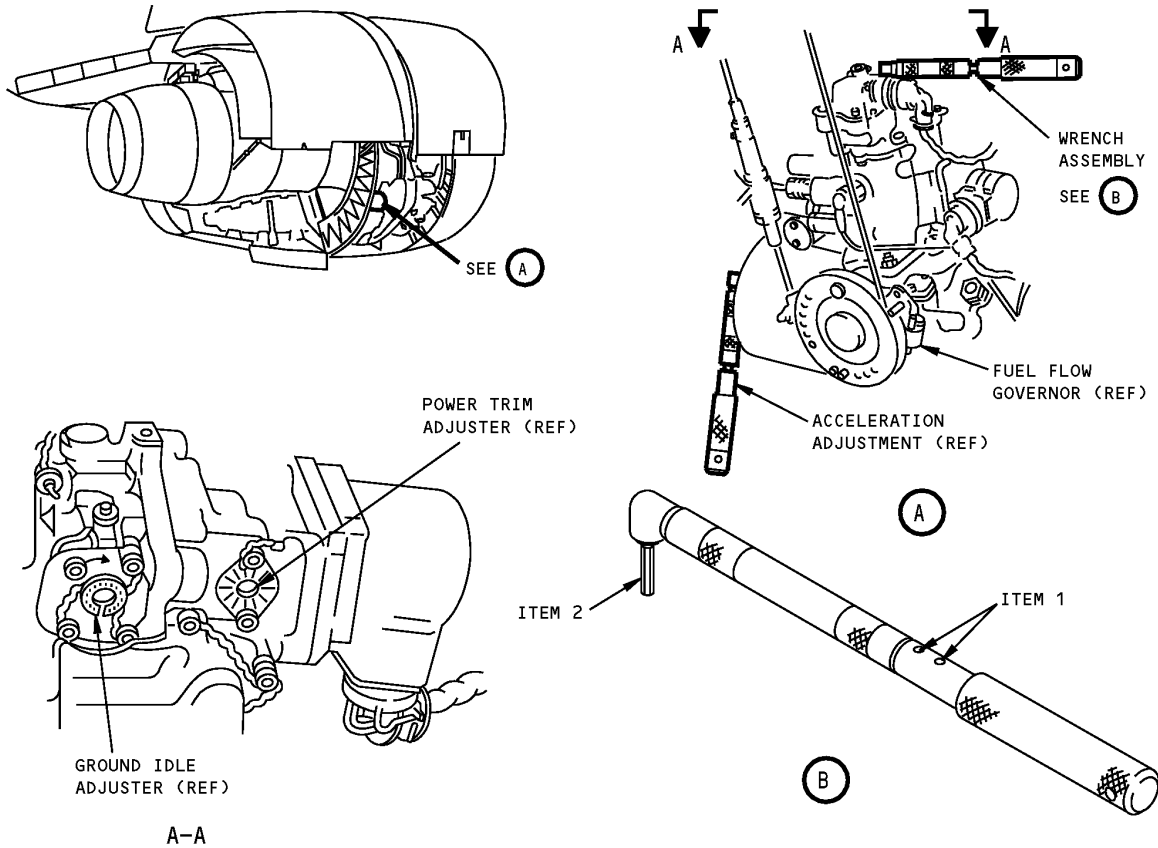
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B73001-1 wrench is used on 757 airplanes equipped with RB211-535 engines. B73001 is used to adjust the fuel flow governor for acceleration, ground idle and full power with the engine running. Refer to AMM 71-00-00 for complete usage instructions. B73001-1 consists of a B73001-2 wrench assembly contained in a storage box.

WEIGHT: 2 lbs (0.9 kg)

DIMENSIONS: 2 x 9 x 13 inches (51 x 229 x 330 mm)

**757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**RB211-535 Engine Trim Adjustment Wrench
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS51966-112	SET SCREW	
2	B73001-4	WRENCH	



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71029-1 WAS MOVED TO 78-30-31



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71032-1

NAME: LOCATING JIG - ENGINE BUILDUP TO STRUT, PW2000 SERIES ENGINES

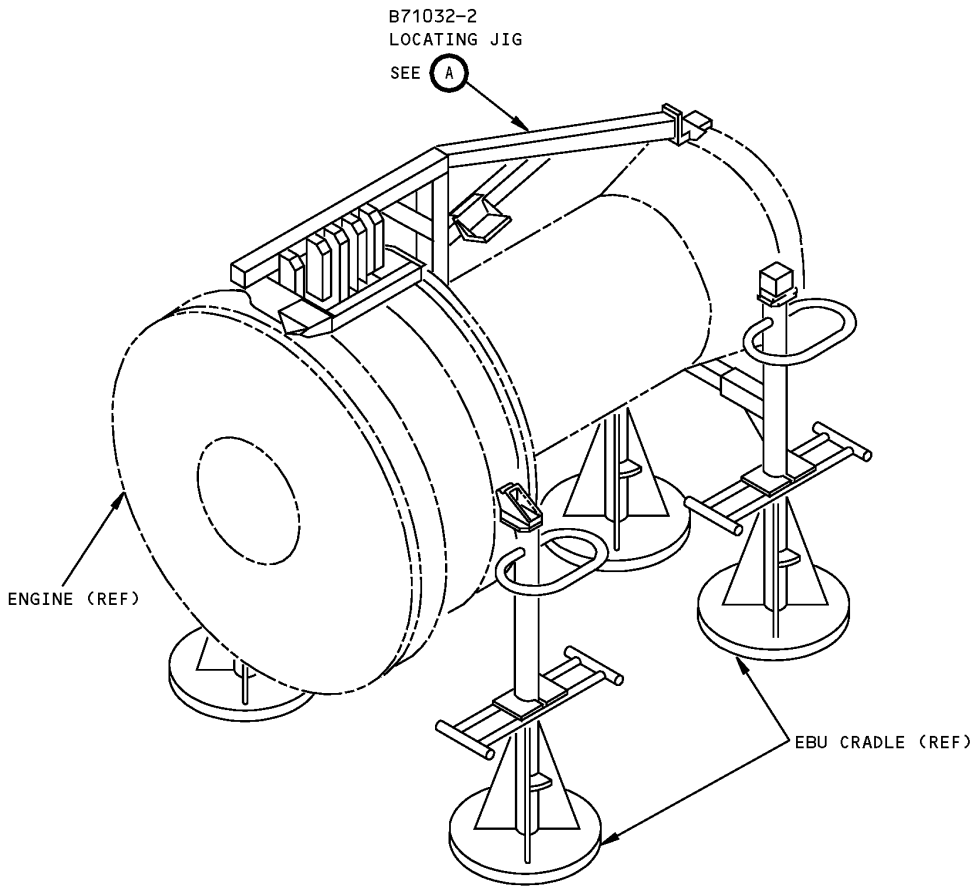
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B71032-1 locating jig is used on 757 airplanes equipped with PW2000 engines. B71032 is used to align pneumatic tubes, electrical connectors, fuel connector, and hydraulic connectors on engine build-up for correct mating to struts. Refer to the 757 PW2000 Power Plant Buildup Manual for complete instructions. B71032-1 consists of a B71032-2 locating jig assembly contained in a storage box.

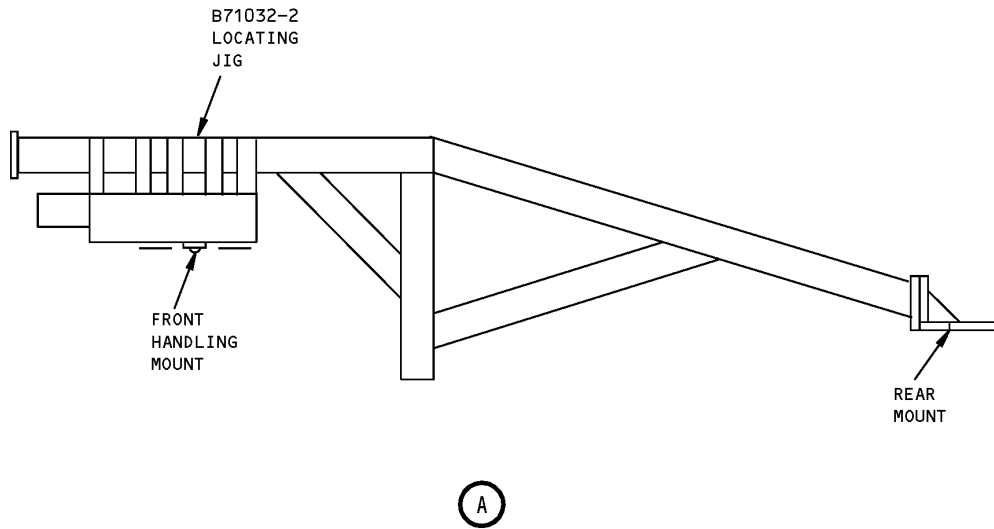
WEIGHT: 200 lbs (91 kg)

DIMENSIONS: 46 x 60 x 120 inches (1168 x 1524 x 3048 mm)



**PW2000 Series Engines Engine Buildup To Strut Locating Jig
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**PW2000 Series Engines Engine Buildup To Strut Locating Jig
Figure 1 (Sheet 2 of 2)**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: ET-BS-609 WAS DELETED



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A71040

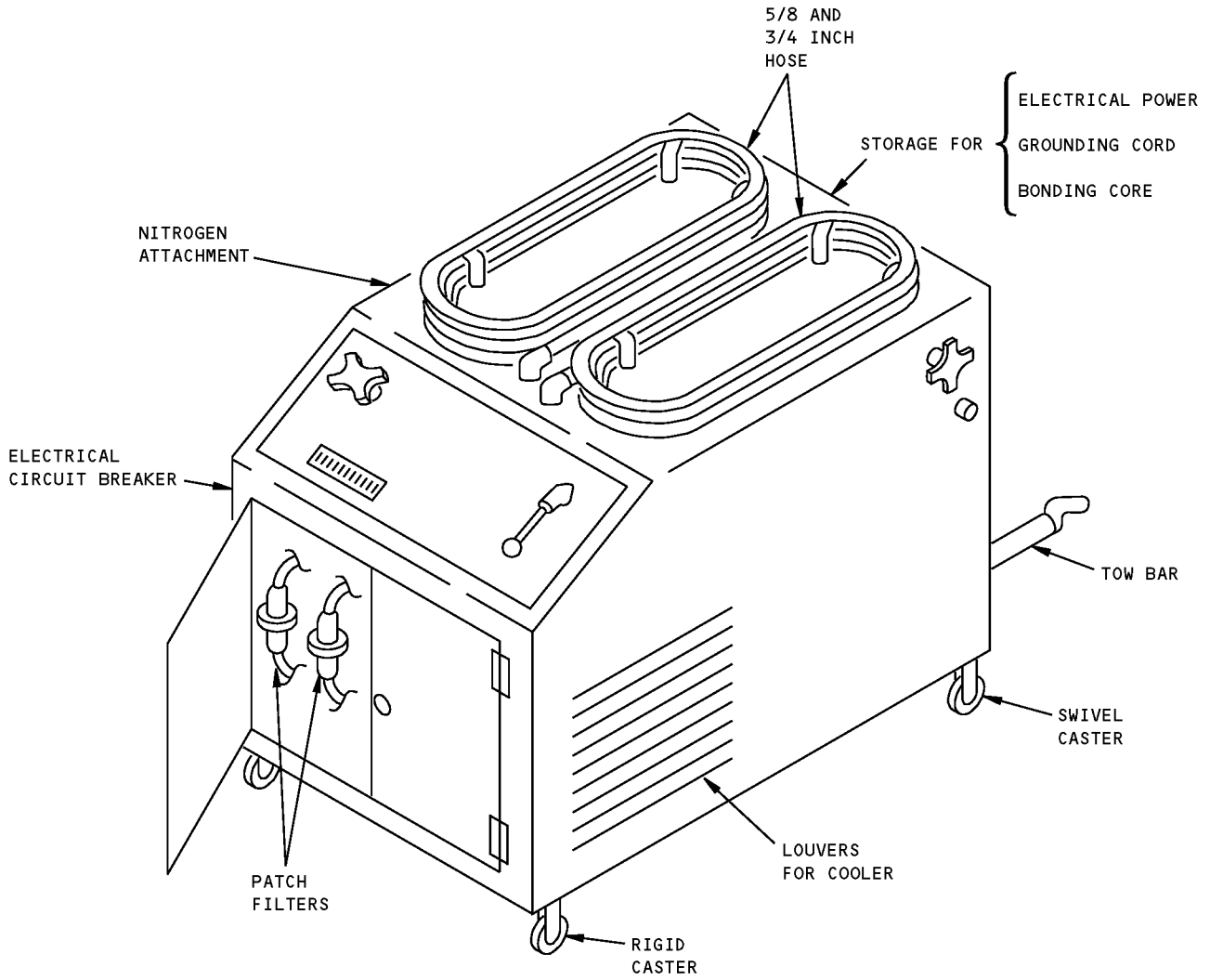
NAME: FLUSH CART SPECIFICATION - INTEGRATED DRIVE GENERATOR (IDG) COOLING SYSTEM

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The A71040 flush cart specification is not a tool but is a tool design to be used on 757 airplanes equipped with PW2000 engines. The A71040 specification flush cart flushes the IDG cooling system during engine buildup or any time the IDG system may be contaminated with particulate matter. The A71040 flush cart specification supplies dry cleaning solvent at 250 psig (maximum) and 17 gpm (minimum) to the IDG cooling system through hoses attached to the cart. Refer to the current A71040 drawing, AMM 12-13-03, AMM 24-11-01 and the PW2000 Power Plant Buildup Manual 71-00-00 for complete usage instructions. The Flush Cart includes an electric motor driven pump, flow control valve, direction control valve, cooler, pressure relief valve, system filter, flow meter, hoses, a patch filter, and provisions for purging the IDG cooling system with dry nitrogen.

**757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



STORAGE FOR ELECTRICAL POWER, GROUNDING CORD, AND BONDING CORD

**IDG Cooling System Flush Cart Specification
Figure 1**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71036-1

NAME: HOIST SLING - PW2000 SERIES ENGINE AND STAND

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71036-1 hoist sling is used to hoist the PW2000 series engine along with an AM-1867 (AGSE) or 110504-101 (Stanley) shipping stand. Refer to the current B71036 drawing for complete usage instructions. B71036-1 consists of:

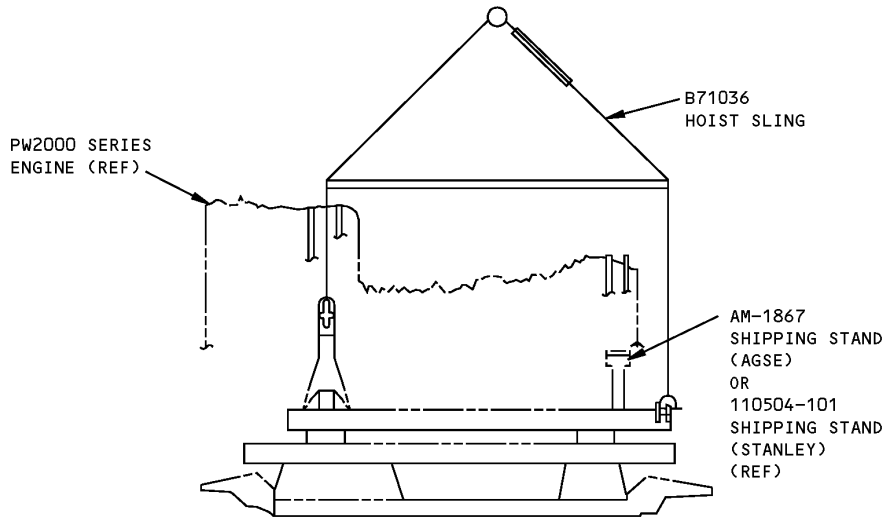
B71036-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FRAME ASSEMBLY	B71036-2
1	SLING ASSEMBLY	B71036-3
2	CABLE ASSEMBLY	B71036-5
1	CABLE ASSEMBLY	B71036-6
1	CABLE ASSEMBLY	B71036-7
1	CABLE ASSEMBLY	B71036-8
1	CABLE ASSEMBLY	B71036-9
1	BAR	B71036-15
1	SUPPORT	B71036-21
3	COUNTERWEIGHT	B71036-22
VARIOUS	CONNECTING HARDWARE	

WEIGHT: 275 lbs (125 kg)

DIMENSIONS: 8 x 91 x 115 inches (203 x 2311 x 2921 mm)

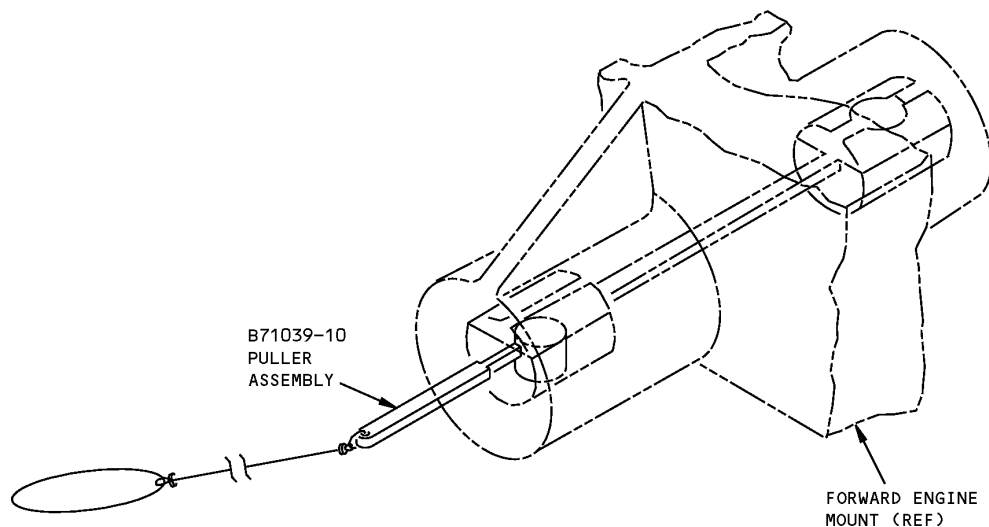
NOTE: B71046 replaces B71036 for future procurement.

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**PW2000 Series Engine And Stand Hoist Sling
Figure 1**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71039-9**NAME:** REMOVAL EQUIPMENT - BARREL NUT, ENGINE MOUNT**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** NO**USAGE & DESCRIPTION:** The B71039-9 removal equipment is used on 757 airplanes equipped with RB211-535 engines. B71039 is used to remove the forward engine mount barrel nut assembly on the RB211-535 power plant installation. Refer to AMM 71-21-03 for complete usage instructions. B71039-9 consists of a B71039-10 puller assembly contained in a storage box.**WEIGHT:** 2 lbs (0.9 kg)**DIMENSIONS:** 2 x 2 x 7 inches (51 x 51 x 178 mm)**NOTE:** B71039-9 supersedes B71039-1.

Engine Mount Barrel Nut Removal Equipment
Figure 1



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71042-154 WAS MOVED TO 78-30-32



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B54013-38 WAS MOVED TO 54-50-15



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71044-10, -28

NAME: ADAPTER EQUIPMENT - LOAD TEST, PRESSURE RELIEF DOOR LATCH

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: B71044-10 or -28 (preferred) adapter equipment is used on all 777 airplanes.

B71044-10 is only applicable to test latches with removable fasteners on pressure relief doors.

B71044-28 (preferred) is used to test latches with removable fasteners or permanent fasteners (rivets or Hi-Locs) on pressure relief doors.

B71044 is used to apply a test load with the use of a customer-furnished torque wrench to the pressure relief door latches. Refer to the current B71044 drawing, AMM 54-53-01, AMM 71-11-03, AMM 71-11-08 and CMM 71-11-71 for complete usage instructions. B71044-10 and -28 consists of:

B71044-10		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PIVOT SUPPORT ASSEMBLY	B71044-11
1	ADAPTER ASSEMBLY	B71044-27
1	STORAGE BOX	

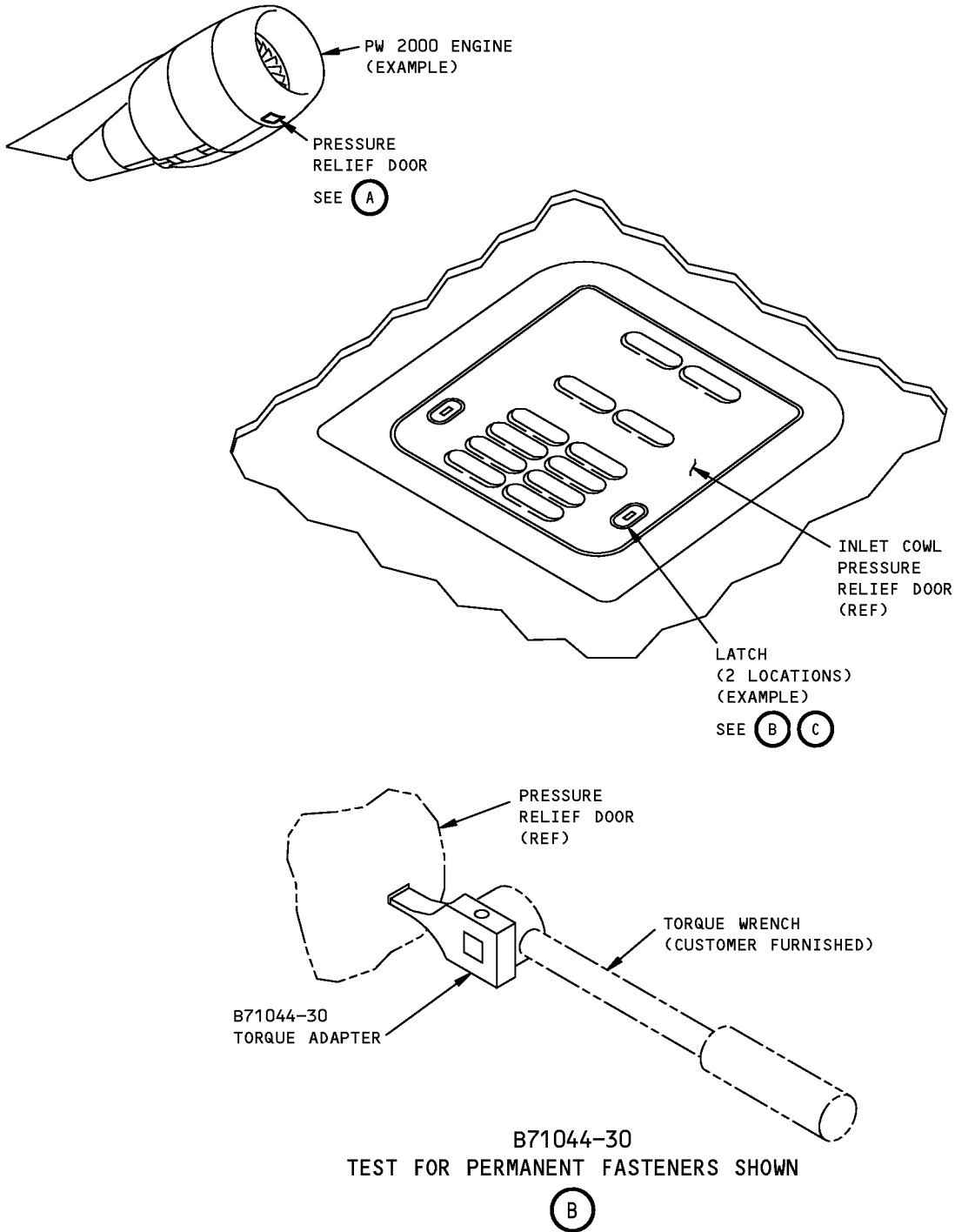
B71044-28		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PIVOT SUPPORT ASSEMBLY	B71044-11
1	ADAPTER ASSEMBLY	B71044-27
1	TORQUE ADAPTER	B71044-30
1	STORAGE BOX	

WEIGHT: 2 lbs (0.9 kg)

DIMENSIONS: 3 x 6 x 11 inches (76 x 152 x 279 mm)

NOTE: B71044-28 replaces B71044-10 for future procurement.
B71044-10 supersedes B71044-1.
B71044-10 supersedes MIT65B90315.

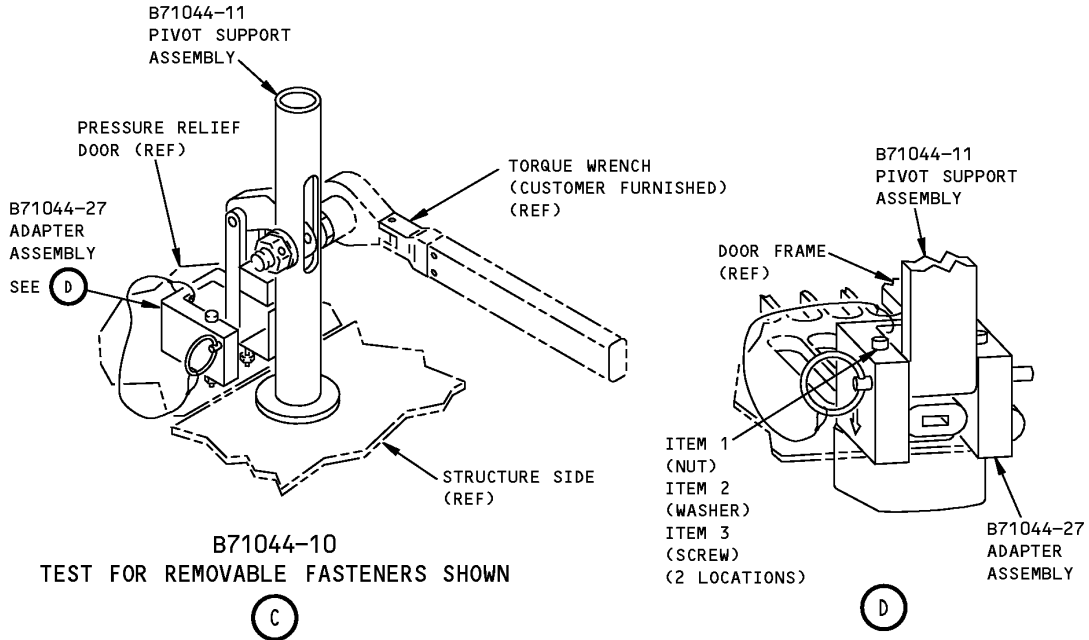
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



1597562 S0000295990_V1

**Pressure Relief Door Latch, Load Test Adapter Equipment
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



L91352 S0000212374_V2

Pressure Relief Door Latch, Load Test Adapter Equipment
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	B71044-5	HEX JAM NUT	
2	B71044-6	PLAIN WASHER	
3	B71044-7	HEX SOCKET HEAD CAP SCREW	



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71046-1

NAME: SLING ASSEMBLY - OVERHEAD REMOVAL/INSTALLATION, PW ENGINE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

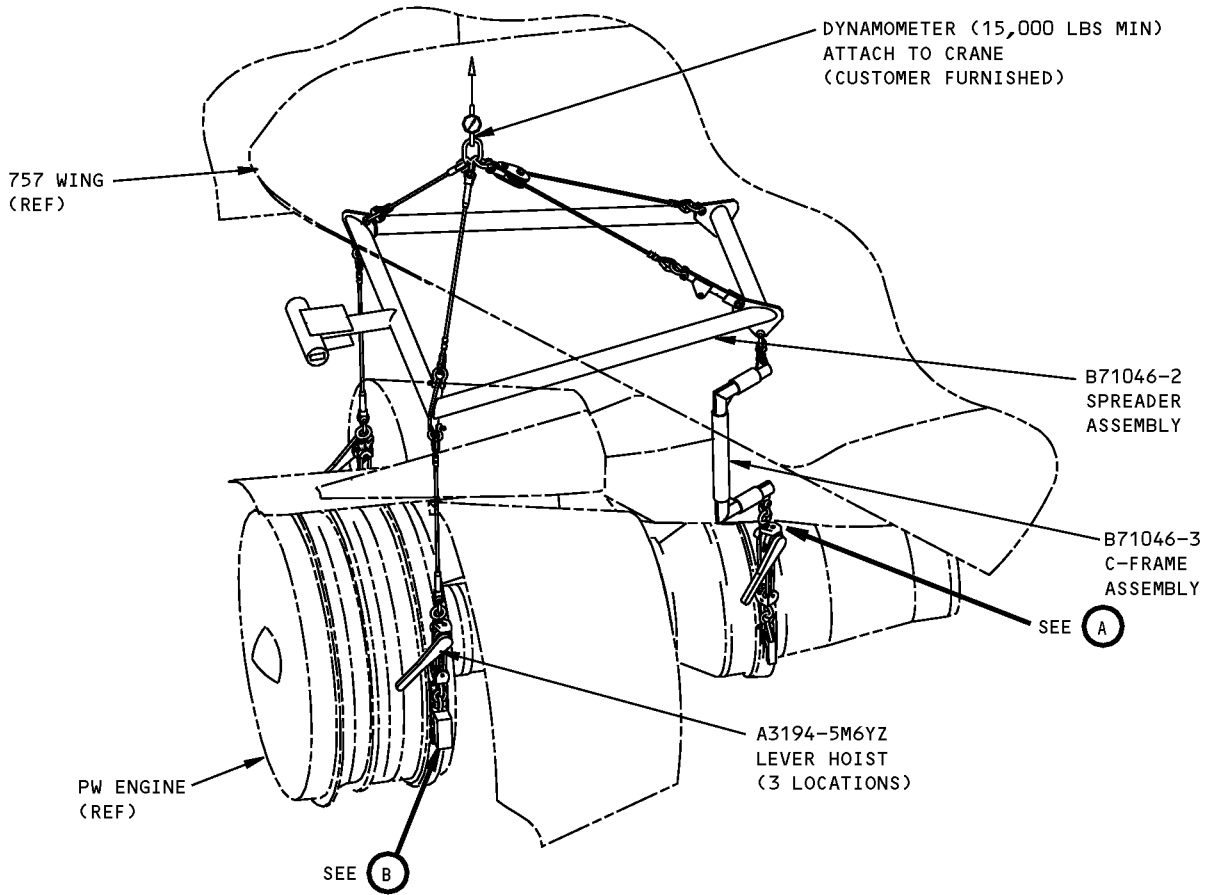
USAGE & DESCRIPTION: The B71046-1 sling assembly is used on 757 airplanes equipped with PW2000 series engines. B71046 is used in to remove and install the Pratt and Whitney engines. B71046 is used in conjunction with the following customer-furnished equipment: an overhead crane, a 0 - 30,000 lb dynamometer, B71022 bootstrap equipment, and a Stang Hydronics 110505-1 transportation stand and 110506-101 cradle or a PF Industries PF71-2037-1 shipping buck, cradle and adapters or an AGSE AM-2510 transportation stand and AM-2472 cradle. Refer to AMM 71-00-02 for complete usage instructions. B71046-1 consists of:

B71046-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SPREADER ASSEMBLY	B71046-2
1	"C" FRAME ASSEMBLY	B71046-3
8	MACHINE SCREW	B71046-29
3	LEVER HOIST	A3194-5MYZ
3	SHACKLE	G-209-3/4

WEIGHT: 1377 lbs (625 kg)

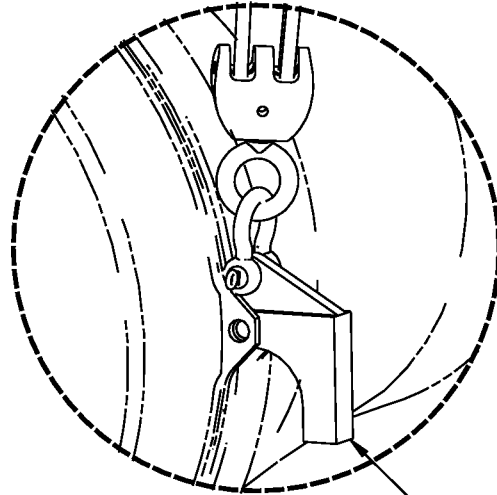
DIMENSIONS: 24 x 100 x 130 inches (610 x 2540 x 3302 mm)

NOTE: B71046 replaces B71036 for future procurement.



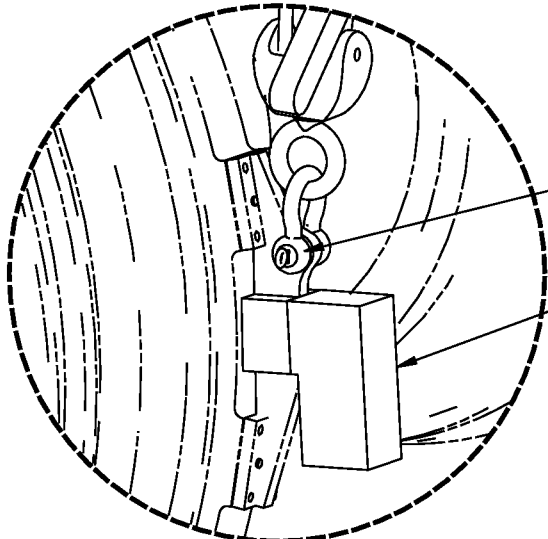
PW Engine Overhead Removal/Installation Sling Assembly
Figure 1 (Sheet 1 of 2)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



A

CRADLE FITTING
(CUSTOMER FURNISHED)



B

G-209-3/4
SHACKLE
(3 LOCATIONS)

CRADLE FITTING
(CUSTOMER FURNISHED)

**PW Engine Overhead Removal/Installation Sling Assembly
Figure 1 (Sheet 2 of 2)**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: J71006

NAME: SPECIFICATION - POWERED HOIST SYSTEM, GROUND SUPPORT EQUIPMENT (GSE) OPERATIONS

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: J71006 is a specification drawing providing information for the design, purchase, fabrication and use of an air-powered hoisting system with a load readout capability. The powered hoisting system is an alternate to the manual lever hoists provided with engine bootstrap systems. The system will provide safer working conditions by eliminating the requirement for personnel to operate manual hoists while on ladders or stands. One operator will control all hoists and can observe the loads applied to the airplane component. The system will provide a preset overload protection for the hoisting system and for the specific airplane model and engine type. Equipment and usage instructions conforming to this specification were developed by a joint agreement between the Boeing Company and Morgan Aero Products of Everett, Washington. A prototype was developed, tested and used to remove and install airplane components. The J71006 drawing also presents interface information necessary to allow Boeing designed ground support equipment to be used with the powered hoist system.

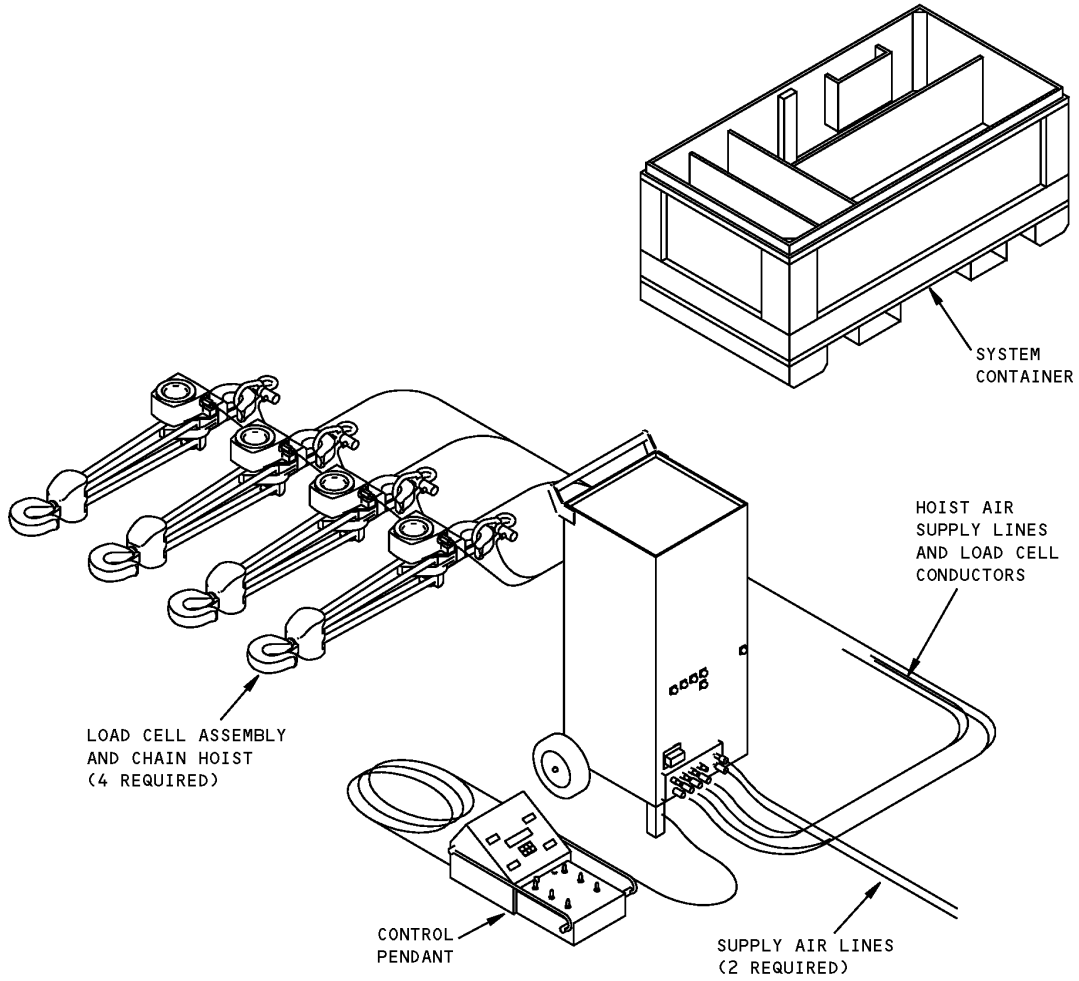
The following system description is only a general observation of the basic functions of the J71006 system. It ignores many safety features and exact operating points that are too complex for description in this document.

The J71006 powered hoist system is controlled electrically and manually. The control cabinet is transportable by one person. It contains control components, batteries and battery charging systems, connecting hardware, pneumatic controls and plumbing and redundant manual control of valves.

Four, 4-chain hoists are pneumatically operated and electrically controlled with a manual backup. Nominal pneumatic pressure required to move the hoists is 90 psi. The hoists are required to have a working load of no less than 12,000 pounds each. The hoists shall have a minimum 10 feet of lift. The hoist's air motor drive shall provide a lift speed of 4 inches per minute. A load cell is provided with each hoist. Load cell readouts are given on the control pendant with a toggle allowing for "tare" and "total" weight displayed.

The control pendant displays the load cell readout. The control pendant also allows for control of each hoist separately or with both forward and/or both aft hoists at the same time. The control pendant allows for 50 feet of travel from the control cabinet. The hoist control on the pendant allows for setting and automatic sensing of predetermined loads and will limit loads with an automatic shutoff.

**757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**GSE Operations Powered Hoist System Specification
Figure 1**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71011-1

NAME: SAFETY ROD - "C" DUCT, RB211-535C

AIRPLANE MAINTENANCE: YES

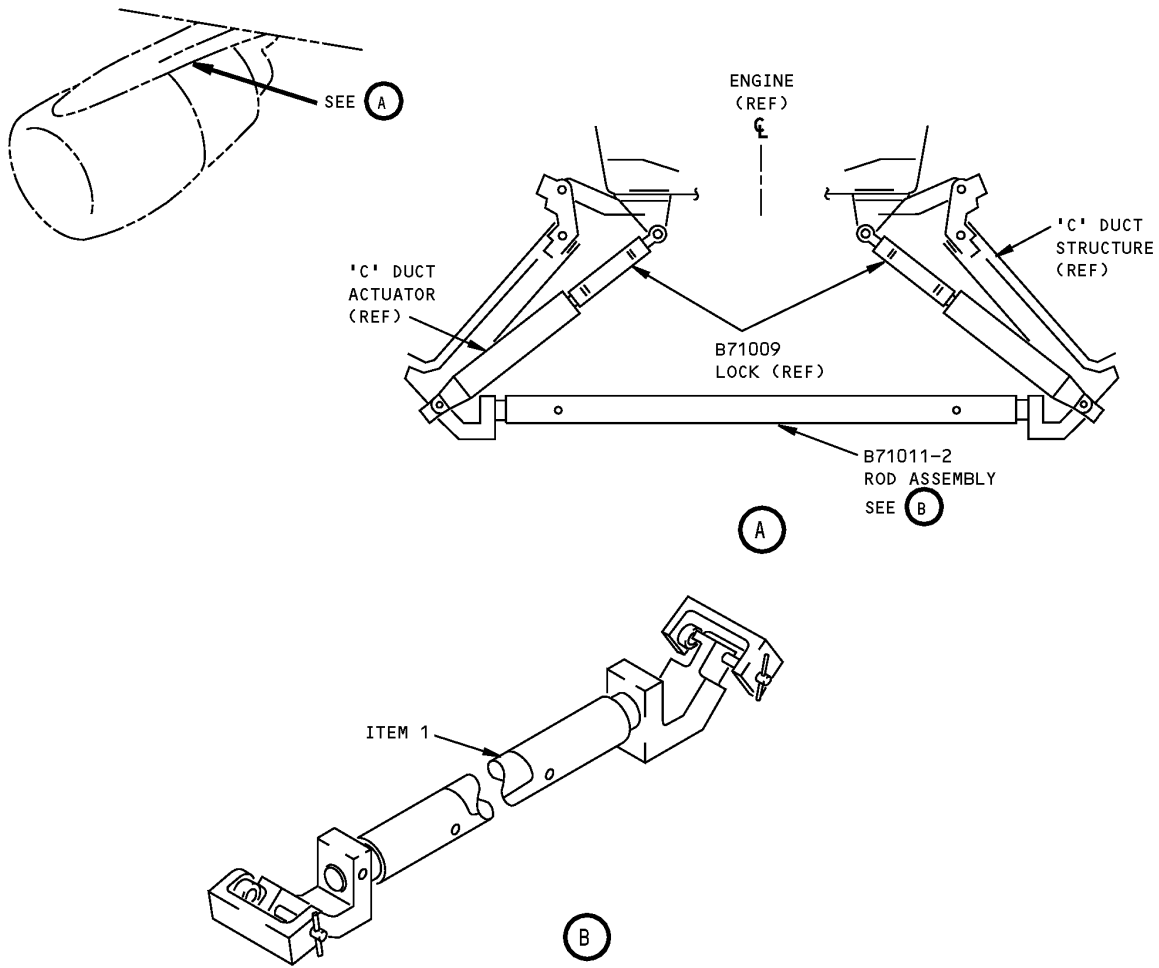
COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71011-1 safety rod is used on 757 airplanes equipped with RB211-535C engines. B71011 is used in conjunction with the B71009-1 (for RB211-535C engines) lock assembly. The B71011 safety rod is used to block the "C"-duct actuator in the fully open position to prevent inadvertent closing due to loss of hydraulic pressure. Refer to the AMM 71-00-02 for complete usage instructions. B71011-1 consists of a B71011-2 rod assembly contained in a storage box.

WEIGHT: 15 lbs (7 kg)

DIMENSIONS: 10 x 10 x 50 inches (254 x 254 x 1270 mm)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**RB211-535C 'C' Duct Safety Rod
Figure 1**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71025-9

NAME: SAFETY ROD - RB211-535E4 "C" DUCT

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

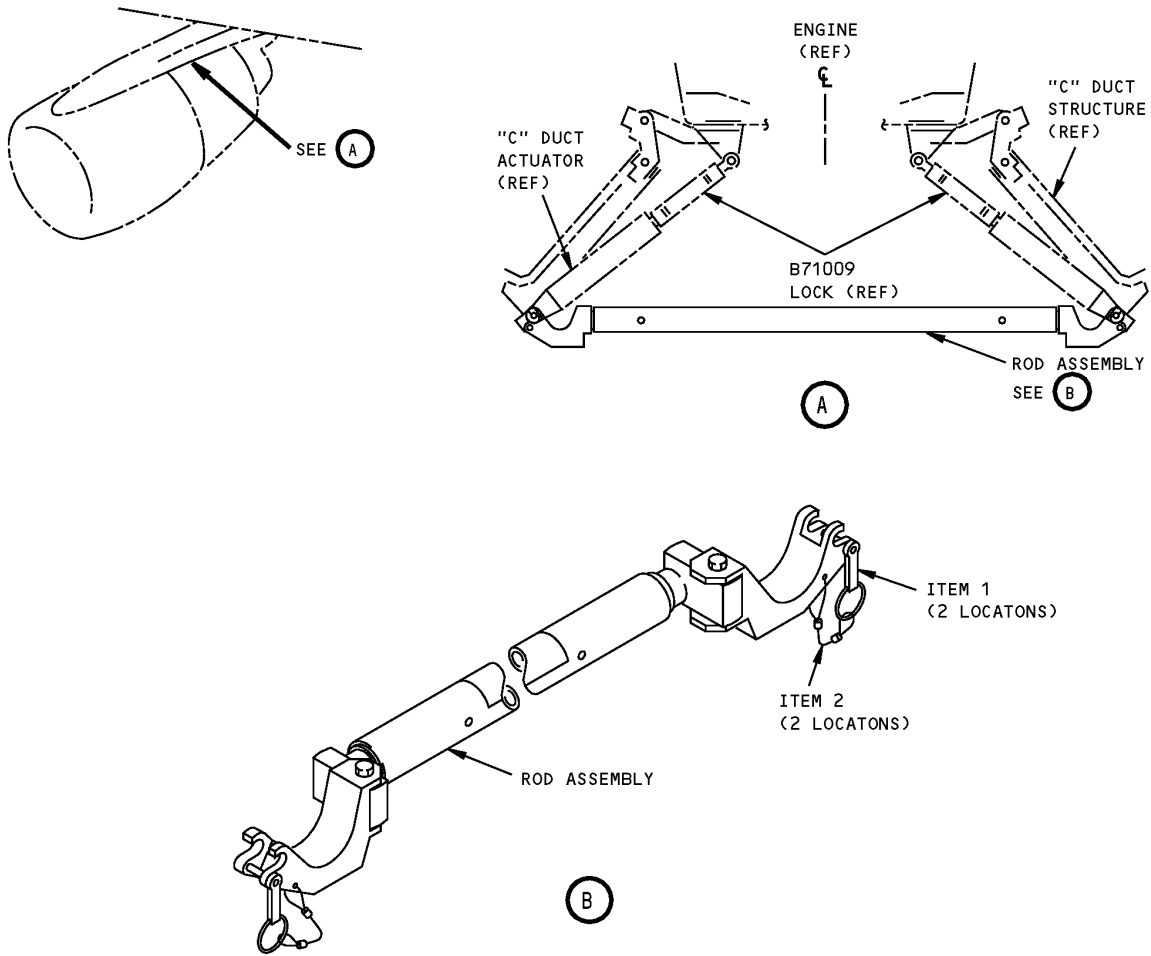
USAGE & DESCRIPTION: The B71025-9 safety rod is used on 757 airplanes equipped with RB211-535E4 engines. B71025 is used in conjunction with the B71009-9 (for RB211-535E4 engines) lock assembly. The B71025 safety rod is used to block the "C"-duct actuator in the fully open position to prevent inadvertent closing due to loss of hydraulic pressure. Refer to the AMM 71-00-02 for complete usage instructions. B71025-9 consists of a B71025-10 rod assembly contained in a storage box.

WEIGHT: 12 lbs (5 kgs)

DIMENSIONS: 10 x 10 x 46 inches (254 x 254 x 1168 mm)

NOTE: B71025-9 supersedes B71025-1.

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



RB211-535E4 "C" Duct Safety Rod
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1334C5C1.8D	BALL LOCK PIN	
2	CL-23-KA-10.0LR	CABLE ASSEMBLY	V99862



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71034-63

NAME: TEST EQUIPMENT - ENGINE PRESSURE MONITORING

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71034-63 test equipment is applicable to 757 airplanes equipped with PW2000 engines. B71034 is used to monitor engine pressure per engine performance test number 9, AMM 71-00-00. Refer to the current B71034 drawing and AMM 71-00-00 for complete usage instructions. B71034-63 consists of:

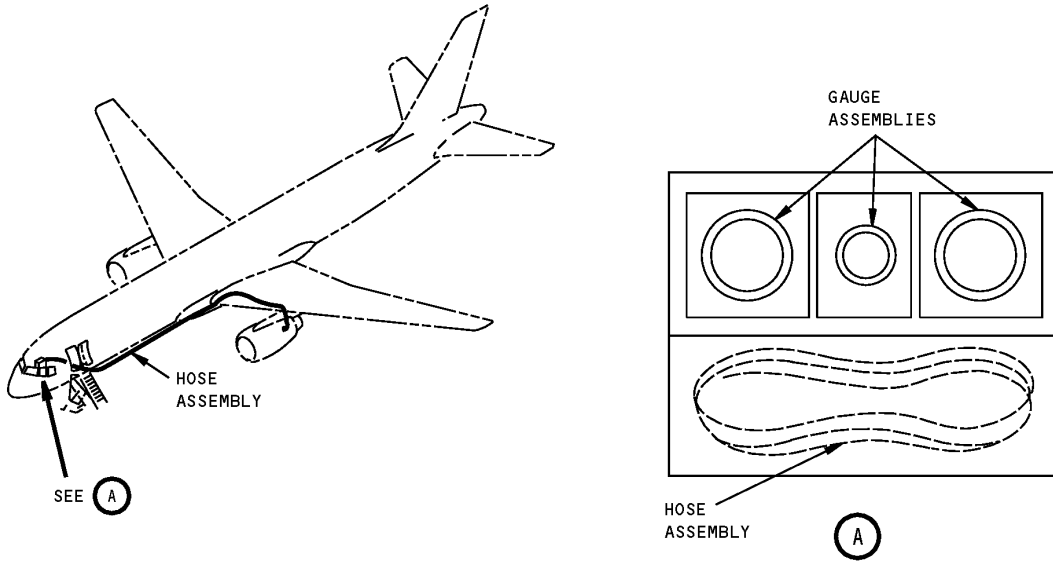
B71034-63		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PT 2.5 GAUGE ASSEMBLY	B71034-4
1	PS3I GAUGE ASSEMBLY	B71034-5
1	PS3.1 GAUGE ASSEMBLY	B71034-6
1	PT 2.5 HOSE ASSEMBLY	B71034-7
1	PS3I HOSE ASSEMBLY	B71034-8
1	PS3.1 HOSE ASSEMBLY	B71034-9
1	STORAGE BOX	

WEIGHT: 50 lbs (23 kg)

DIMENSIONS: 12 x 24 x 36 inches (305 x 610 x 914 mm)

NOTE: B71034-63 supersedes B71034-1.

**757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Engine Pressure Monitoring Test Equipment
Figure 1**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71043-1

NAME: TEST EQUIPMENT - FUEL PUMP PRESSURE, PW2000 SERIES ENGINES

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71043-1 test equipment is used on the 757 airplanes equipped with PW2000 series engines. B71043 is used to check fuel pump pressure while motoring the engine with an air starter. Refer to the Fault Isolation Manual (FIM) 71-08-00 for complete usage instructions. B71043-1 consists of:

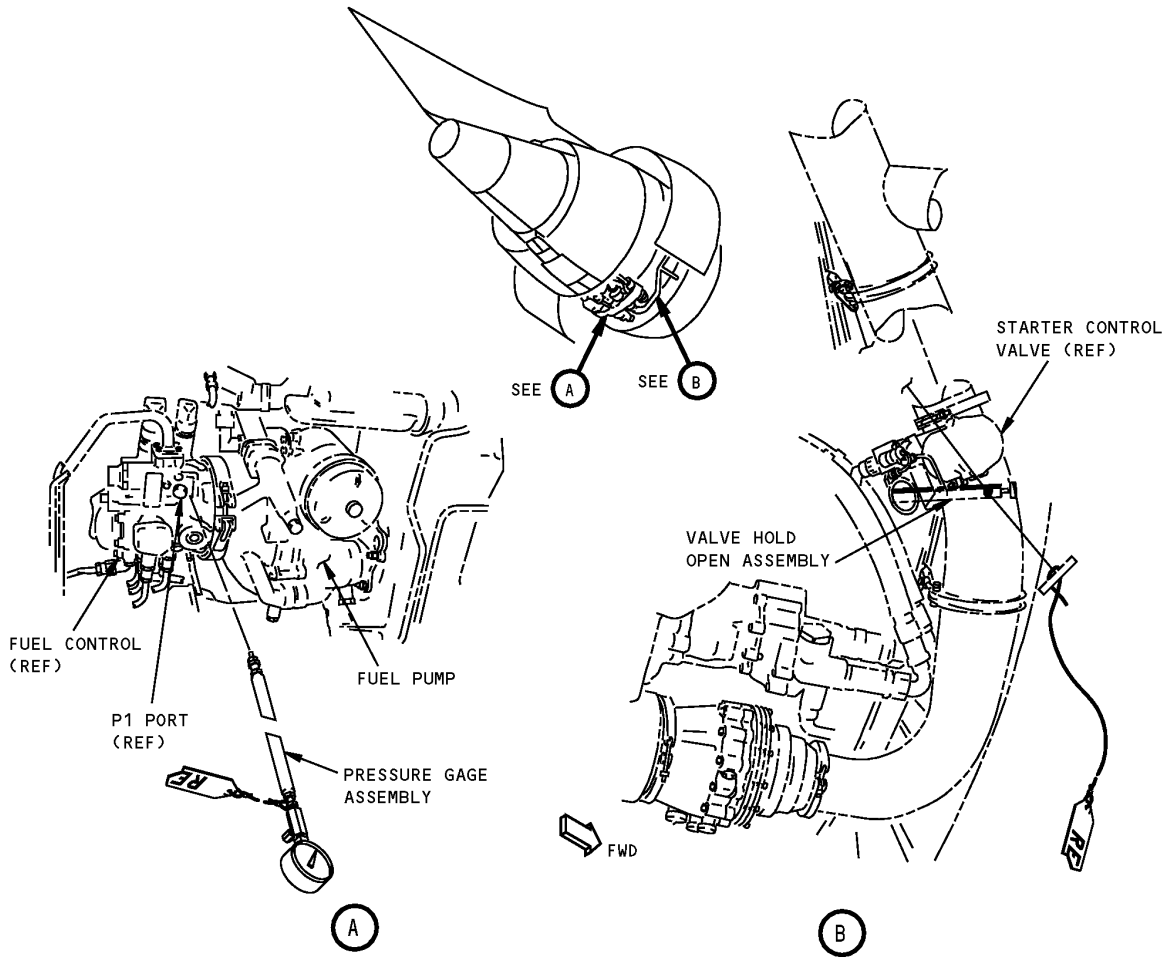
B71043-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	VALVE HOLD OPEN ASSEMBLY	B71043-2
1	PRESSURE GAGE ASSEMBLY	B71043-3
1	STORAGE BOX	

WEIGHT: 4 lbs (1.8 kg)

DIMENSIONS: 4 x 18 x 18 inches (102 x 457 x 457 mm)

NOTE: B71043 supersedes B71037.

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**PW2000 Series Engines Fuel Pump Pressure Test Equipment
Figure 1**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71007-1, -83, -117, -127

NAME: CRADLE - RB211-535 ENGINE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71007 cradles are used on 757 airplanes equipped with RB211-535 engines. B71007-1 is used on RB211-535C engines only. The B71007-83 cradle is used on RB211-535C, RB211-535E4 and RB211-535E4 48 outlet guide vane (OGV) engines. The B71007-117 cradle is used on RB211-535C and RB211-535E4 engines. The B71007-127 cradle (preferred) is used on RB211-535C, RB211-535E4 and RB211-535E4 48 OGV engines.

B71007-127 (preferred) is used to support the engine during removal with the B71001 bootstrap of the B71001 Handling Equipment during removal or installation procedures on the RB211-535C/E4 engines. B71007-127 is also used with a Stanley 110350, 90-inch rail dolly for engine storage and transportation. The B71007 cradles requires the use of a B71010 proof load fixture for proof load testing. The B71019 reference information drawing provides datum, dimensional and angular references. Refer to the current B71001, B71007, B71019 drawings and AMM 71-00-02 for complete engine/component removal or installation usage instructions. The B71007-127 cradle (preferred) consists of:

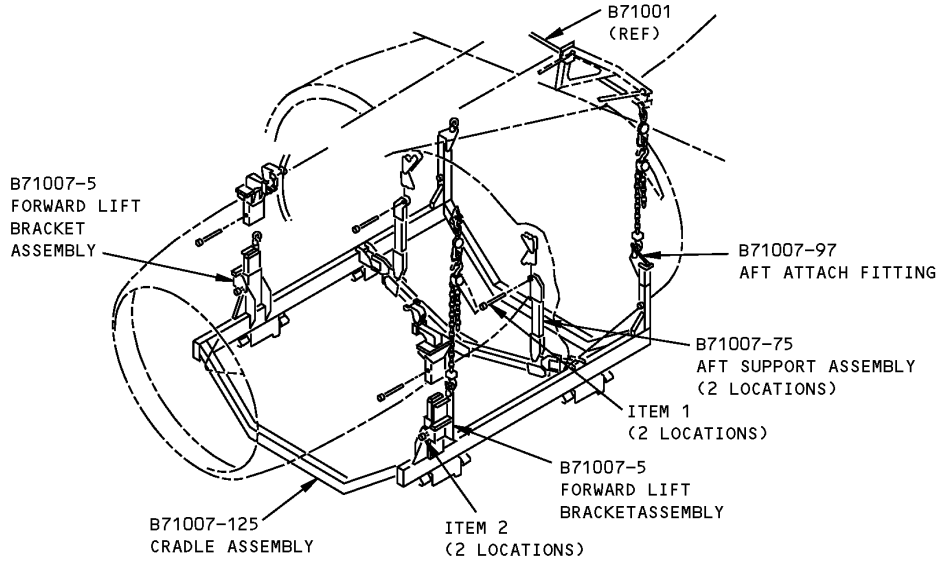
B71007-127		
QUANTITY	NOMENCLATURE	PART NUMBER
2	AFT SUPPORT ASSEMBLY	B71007-75
1	FORWARD LIFT BRACKET ASSEMBLY	B71007-5
1	FORWARD LIFT BRACKET ASSEMBLY (OPP -5)	B71007-6
1	EQUALIZER BAR ASSEMBLY	B71007-86
2	BAYONET ASSEMBLY	B71007-67
1	CRADLE ASSEMBLY	B71007-125
2	BELLCRANK	B71007-44
2	AFT ATTACH FITTING ASSEMBLY	B71007-97
2	FORWARD ATTACH FITTING ASSEMBLY	B71007-130
2	SWIVEL	G-402-5/8
4	SHACKLE	G-209-5/8
4	ROLLER ASSEMBLY	110095-11
VARIOUS	CONNECTING HARDWARE	

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

WEIGHT: 1535 lbs (696 kg)

DIMENSIONS: 60 x 96 x 129 inches (1524 x 2438 x 3277 mm)

NOTE: B71007-117 supersedes B71007-87.
 B71007-127 replaces B71007-117 for future procurement.



RB211-535 Engine Cradle
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1341C3C22D	BALL LOCK PIN	
2	NAS1343C3C90D	BALL LOCK PIN	



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71007-1, -83, -117, -127 WAS MOVED TO 71-00-35

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71013-1

NAME: SLING - RB211-535 ENGINE FAN COWL

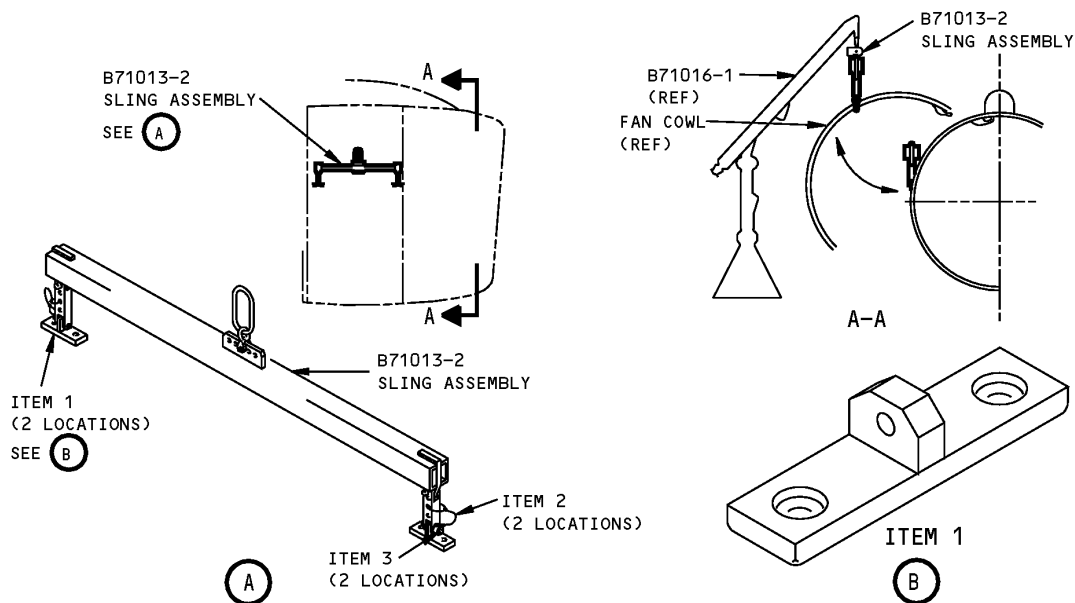
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71013-1 sling is used on 757 airplanes equipped with RB211-535 engines. B71013 is used with B71016-1 hoist/transporter or overhead hoisting equipment to remove/install the RB211-535 engine fan cowl. B71013 is an alternate to the Rolls Royce CP30401 sling. Refer to the current B71013 drawing and AMM 71-11-04 for complete usage instructions. B71013-1 consists of a B71013-2 sling assembly contained in a storage box.

WEIGHT: 30 lbs (14 kg)

DIMENSIONS: 8 x 12 x 45 inches 203 x 305 x 1143 mm)



**RB211-535 Engine Fan Cowl Sling
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	B71013-7	FITTING	
2	CL-24-KA-12.0LR	LANYARD	V99862



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	BLC4RC12S	BALL LOCK PIN	V84256

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A71016-1

NAME: SLING EQUIPMENT - CORE COWL

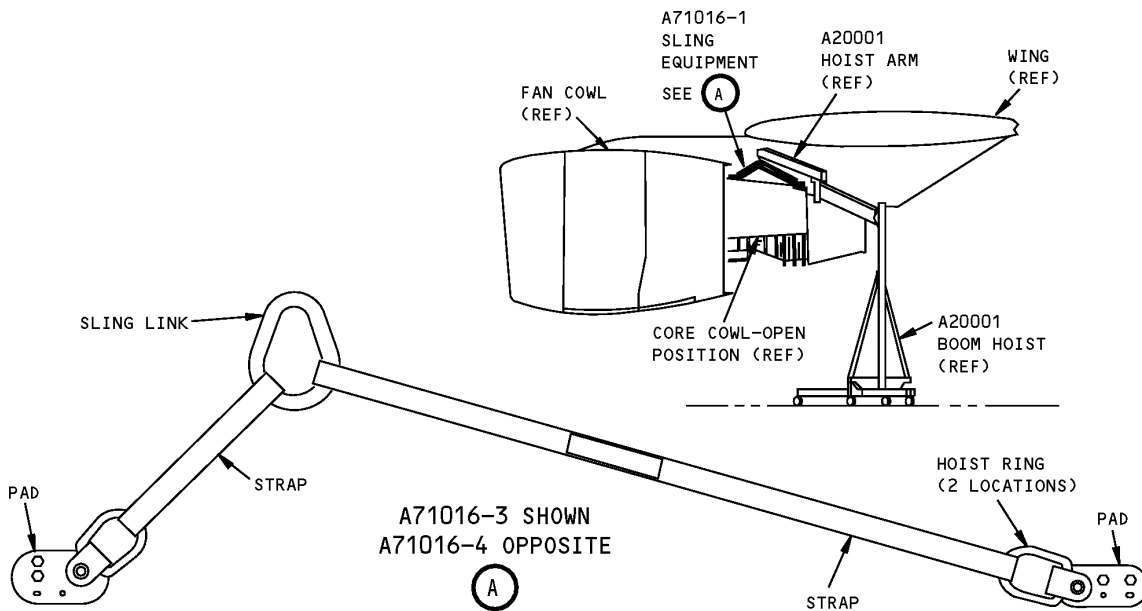
AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A71016-1 sling equipment is used on 757 airplanes equipped with PW2000 series engines. A71016 is used with A20001 boom hoist and hoist arm to remove and install the engine core cowl. Refer to AMM 71-00-06 for complete usage instructions. A71016-1 consists of a A71016-3 left hand sling assembly and a A71016-4 right hand sling assembly, both contained in a storage box.

WEIGHT: 26 lbs (12 kg)

DIMENSIONS: 3 x 11 x 31 inches (76 x 279 x 787 mm)



**Core Cowl Sling Equipment
Figure 1**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71020-39, -74

NAME: HOLD OPEN EQUIPMENT - THRUST REVERSER/CORE COWL, PRATT AND WHITNEY ENGINE

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71020-39 or -74 hold open equipment is used on 757 airplanes equipped with PW2000 series engines. The B71020-39 is used for airplane thrust reverser/core cowl combinations that include non-isolation struts and cowls. The B71020-74 is used on 757 airplanes equipped with PW2000 series engines including line numbers 129, 131, 133, 139, 141, 143, 147, 149, 157, 176, 181, 184, 186, 188 and on. B71020-74 is also used on struts incorporating Service Bulletins SB 757-71-0015 and SB 757-71-0018.

When using the B71020-39 hold open equipment, the B71020-35 and B71020-36 hold open assemblies are used to hold open the thrust reverser while engine is removed for maintenance and/or removal/installation of an actuator on airplanes without shock isolation thrust reversers. The B71020-40 hold open assemblies are used to hold open the core cowl while engine is removed. Refer to the current B71020 drawing and AMM 71-00-02 for complete usage instructions.

When using the B71020-74 hold open equipment, the B71020-75 hold open assemblies are used to hold open the thrust reverser while engine is removed for maintenance on airplanes with shock isolated thrust reversers. The B71020-40 hold open assemblies are used to hold open the core cowl while engine is removed. Refer to the current B71020 drawing and AMM 71-00-02 for complete usage instructions.

B71020-39 and B71020-74 consists of:

B71020-39		
QUANTITY	NOMENCLATURE	PART NUMBER
1	HOLD OPEN ASSEMBLY	B71020-35
1	HOLD OPEN ASSEMBLY	B71020-36
2	HOLD OPEN ASSEMBLY	B71020-40
1	STORAGE BOX	

B71020-74		
QUANTITY	NOMENCLATURE	PART NUMBER
2	HOLD OPEN ASSEMBLY	B71020-40
2	HOLD OPEN ASSEMBLY	B71020-75



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

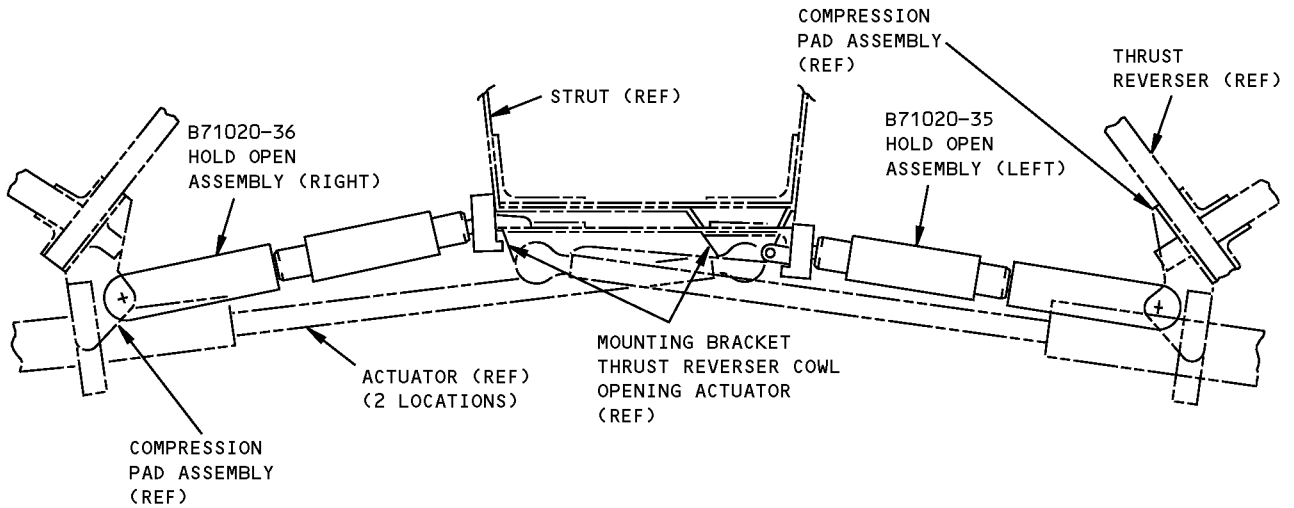
B71020-74		
QUANTITY	NOMENCLATURE	PART NUMBER
1	STORAGE BOX	

WEIGHT: 25 lbs (11 kg)

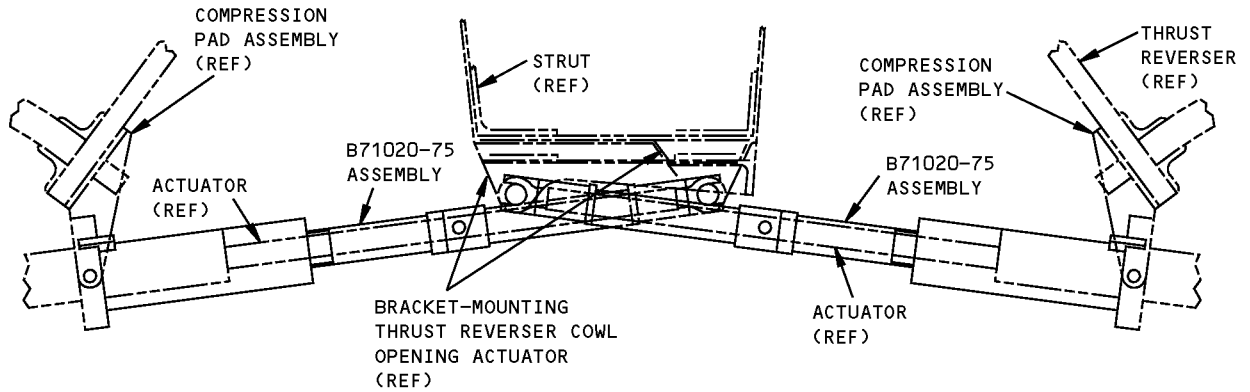
DIMENSIONS: B71020-39 - 7 x 18 x 42 inches (178 x 457 x 1067 mm)
B71020-74 - 7 x 15 x 42 inches (178 x 381 x 1067 mm)

NOTE: B71020-74 supersedes B71020-53.
B71020-39 supersedes B71020-1.

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



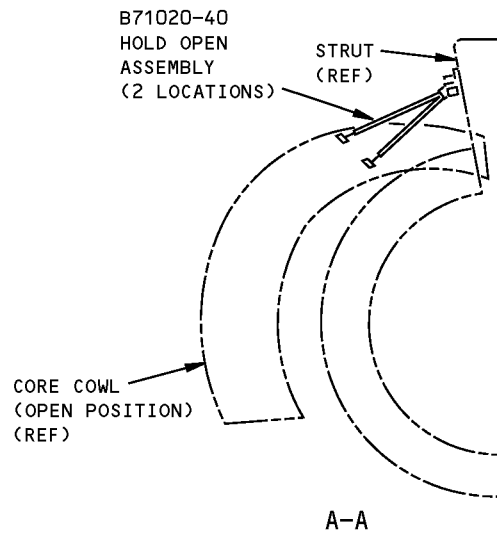
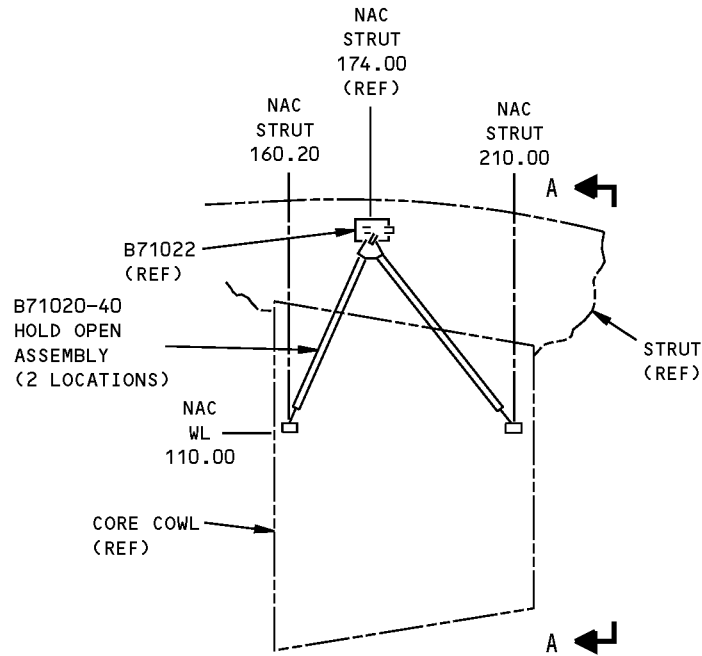
B71020-39



B71020-74

**Pratt And Whitney Engine Thrust Reverser/Core Cowl Hold Open Equipment
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**Pratt And Whitney Engine Thrust Reverser/Core Cowl Hold Open Equipment
Figure 1 (Sheet 2 of 2)**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A71005-33

NAME: SLING EQUIPMENT - ENGINE INLET COWL

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A71005-33 sling equipment is used on 757 airplanes equipped with PW2000 series engines. A71005 provides capabilities for lift, controlled rotation and pitch, while removing or installing engine inlet cowl to or from the shipping container. A71005 is also used for removing or installing engine inlet cowl to or from the airplane engine. Refer to AMM 71-11-01 for complete usage instructions. A71005-33 consists of:

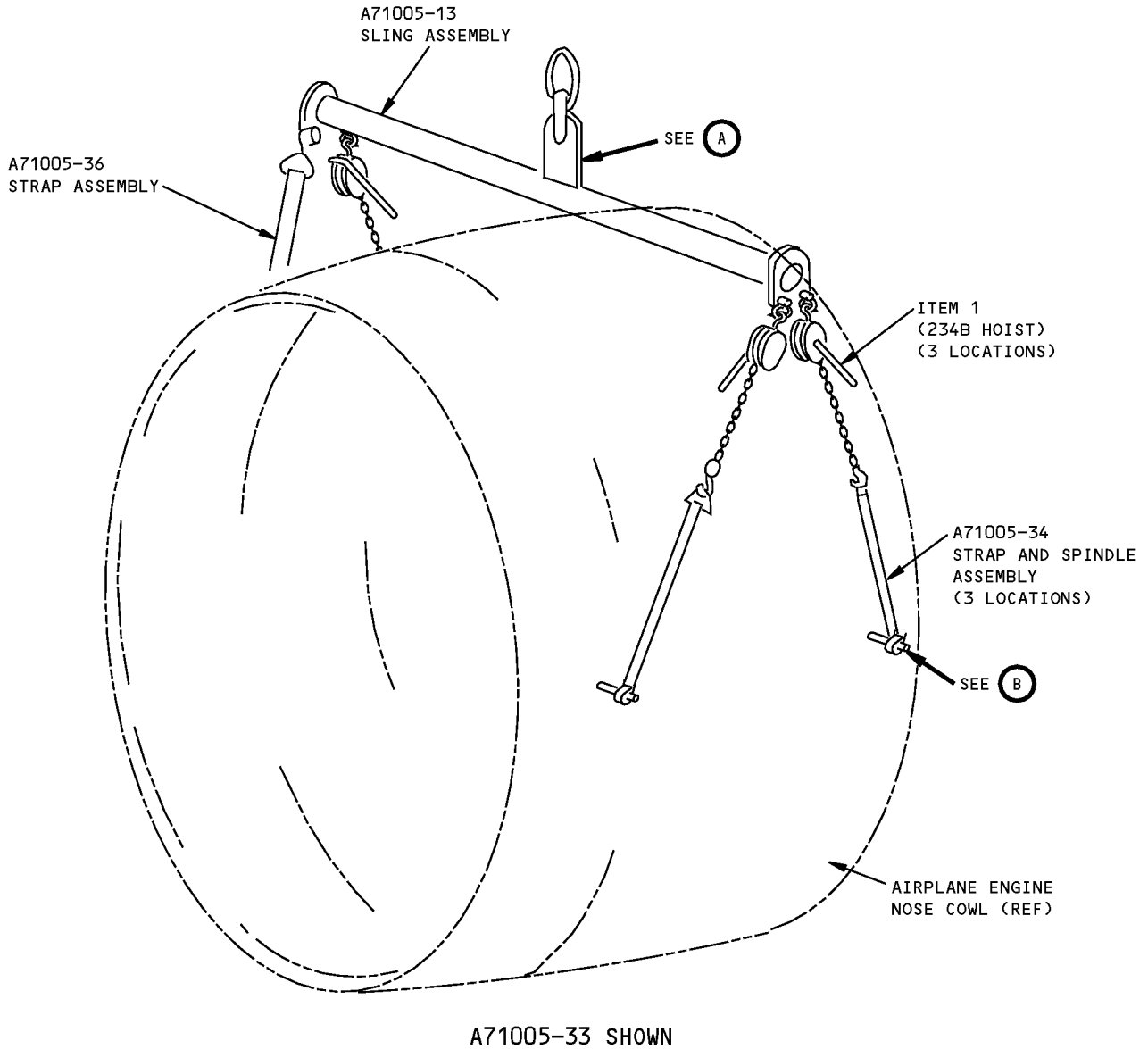
A71005-33		
QUANTITY	NOMENCLATURE	PART NUMBER
3	SHORT STRAP AND SPINDLE ASSEMBLY	A71005-34
1	SLING ASSEMBLY	A71005-35
3	LEVER HOIST	234B
1	STORAGE BOX	

WEIGHT: 130 lbs (59 kg)

DIMENSIONS: 12 x 16 x 120 inches (305 x 406 x 3048 mm)

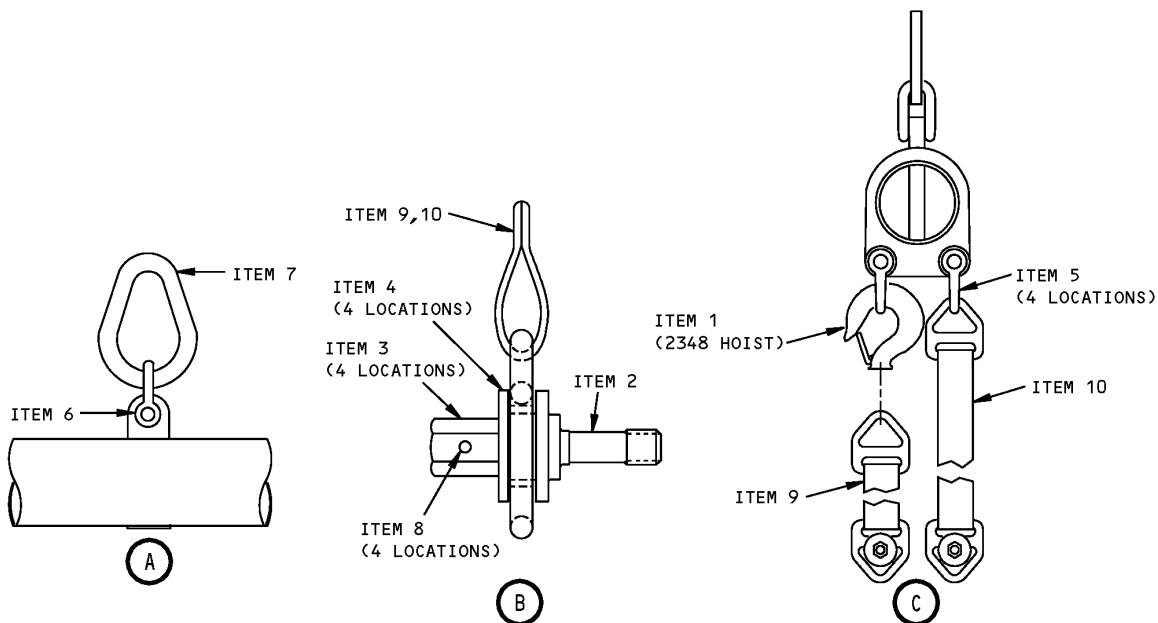
NOTE: A71005-33 supersedes A71005-31.

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Engine Inlet Cowl Sling Equipment
Figure 1 (Sheet 1 of 2)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Engine Inlet Cowl Sling Equipment
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	234B	LEVER HOIST	V54399
2	A71005-9	SPINDLE	
3	A71005-10	NUT	
4	A71005-11	WASHER	
5	G-213-1/2	SHACKLE	V75535
6	G-215-1/2	SHACKLE	V75535
7	G-341-3/4	SLING LINK	V75535
8	MS16562-34	SPRING PIN	V16717
9	S2CQ61MUCQ	SHORT STRAP ASSEMBLY	V95957
10	S2CQ75MUCQ	LONG STRAP ASSEMBLY	V95957



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71040-36, -37, -39

NAME: SLING EQUIPMENT - INLET COWL

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: B71040-36, -37 or -39 (B71040-39 preferred) sling equipment is used on 757 airplanes equipped with RB211-535C and -535E4 engines. B71040 sling equipment is used to remove and install the engine inlet cowl on RB211 engines. B71040 sling equipment also allows the inlet cowl to be rotated flat with the inlet up. Refer to AMM 71-11-01 for complete usage instructions. B71040-36, -37 and -39 sling equipment consists of:

B71040-36		
QUANTITY	NOMENCLATURE	PART NUMBER
1	LIFTING SLING ASSEMBLY	B71040-2
2	LIFTING BAR ASSEMBLY	B71040-3
2	CHAIN HOIST	B71040-40
2	CHAIN BAG	A1234-7
1	STORAGE BOX	B71040-4

B71040-37		
QUANTITY	NOMENCLATURE	PART NUMBER
4	LIFTING STRAP ASSEMBLY	B71040-24
1	LIFTING SLING ASSEMBLY	B71040-32
2	CHAIN HOIST	B71040-40
2	CHAIN BAG	A1234-7
1	WELDLESS SLING LINK	G-341-5/8
1	STORAGE BOX	B71040-29

B71040-39		
QUANTITY	NOMENCLATURE	PART NUMBER
4	LIFTING STRAP ASSEMBLY	B71040-24
4	LIFTING STRAP ASSEMBLY	B71040-25
1	LIFTING SLING ASSEMBLY	B71040-32
2	CHAIN HOIST	B71040-40
2	CHAIN BAG	A1234-7
1	WELDLESS SLING LINK	G-341-5/8

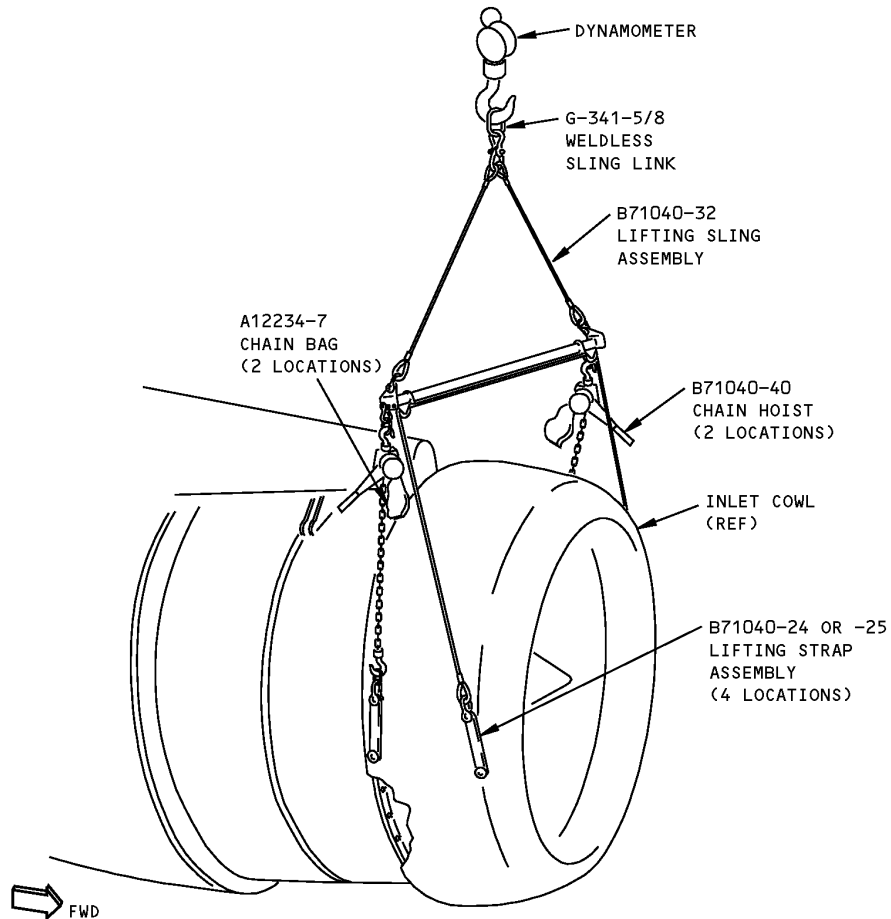
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

B71040-39		
QUANTITY	NOMENCLATURE	PART NUMBER
1	STORAGE BOX	B71040-31

WEIGHT: 120 lbs (54 kg)

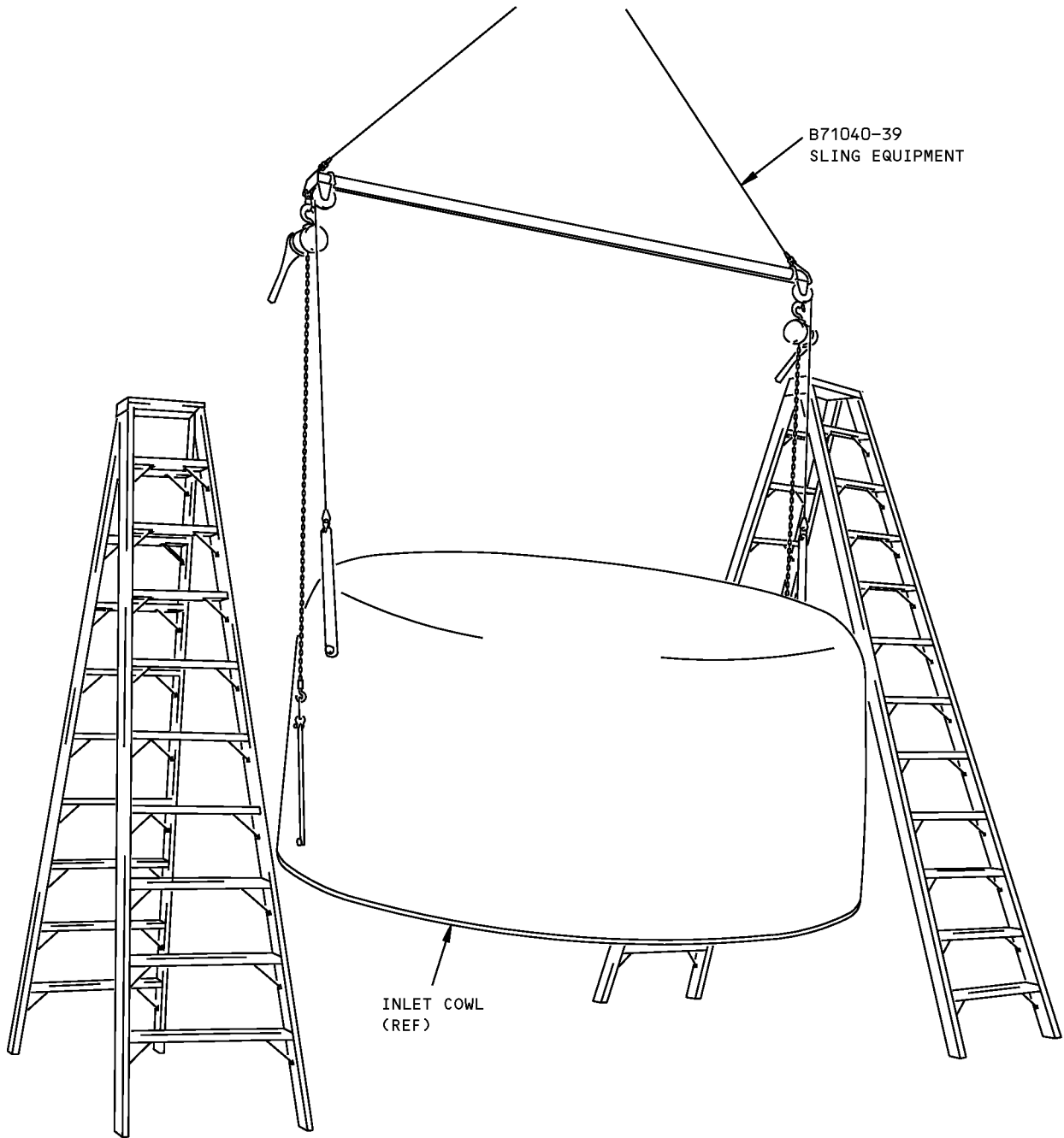
DIMENSIONS: 18 X 24 X 120 inches (457 x 610 x 3048 mm)

NOTE: B71040-36,-37 and -39 supersedes B71040-20,-21 and -23 respectively. B71040-39 replaces B71040-36 and B71040-37 for future procurement.



B71040-39 SLING EQUIPMENT SHOWN
B71040-36 AND -37 SIMILAR

Inlet Cowl Sling Equipment
Figure 1 (Sheet 1 of 2)



**Inlet Cowl Sling Equipment
Figure 1 (Sheet 2 of 2)**



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: B71024-35, -36

NAME: TOOL SET - ENGINE CHANGE, PW2000 SERIES

AIRPLANE MAINTENANCE: YES

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The B71024-35 tool set is used only on 757-200 airplanes equipped with PW2000 series engines.

The B71024-36 tool set is used on 757-200 and 757-300 airplanes equipped with PW2000 series engines.

B71024 is used during engine removal and installation. B71024 is used to prevent operation of thrust reverser, level forward engine mount, and provide access to engine mount bolts during PW2000 series engine change. B71024 also includes torquing equipment. Refer to AMM 71-00-02 for complete usage instructions. It is noted that both B71024-35 and -36 include the Boeing special tool B78001 thrust reverser isolation valve lock. B71024-35 and -36 consist of:

B71024-35		
QUANTITY	NOMENCLATURE	PART NUMBER
1	1/2-INCH DRIVE LONG SOCKET ADAPTER	B71024-2
1	1/2-INCH DRIVE SHORT SOCKET ADAPTER	B71024-3
1	STRAIGHT EXTENSION ADAPTER	B71024-39
1	TORQOMETER	B71024-6 ^[1]
1	13/16-INCH WRENCH ASSEMBLY	B71024-18
1	EXTENSION ASSEMBLY	B71024-7 ^[1]
1	SHIM ASSEMBLY	B71024-11
1	3/4-INCH DRIVE, FIXED-HEAD RATCHET TORQUE WRENCH	QD4R600
1	1/2-INCH DRIVE, FIXED-HEAD RATCHET TORQUE WRENCH	QD3R250 ^[1]
1	THRUST REVERSER ISOLATION VALVE LOCK	B78001-1
1	3/4-INCH DRIVE BREAKER BAR HEAD	L8112A
1	36-INCH HANDLE	L872RM
1	1/2-INCH DRIVE, FLEX-HEAD RATCHET	S711A
1	1/2-INCH DRIVE BREAKER BAR	SN24C
1	STORAGE BOX	

*[1] B71024-6 AND -7 ARE OPTIONAL TO QD3R250 (PREFERRED).



757

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

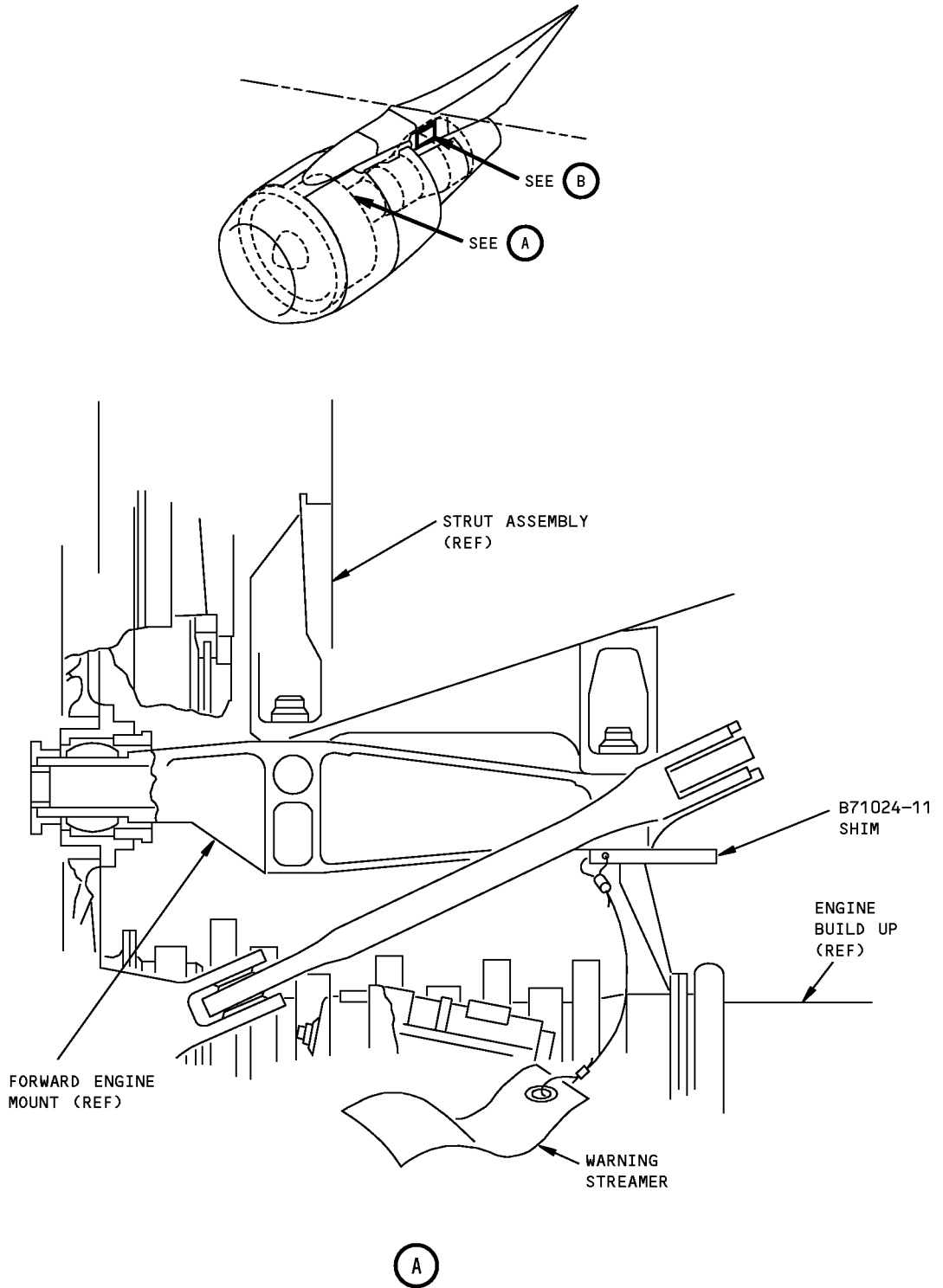
B71024-36		
QUANTITY	NOMENCLATURE	PART NUMBER
1	1/2-INCH DRIVE LONG SOCKET ADAPTER	B71024-2
1	1/2-INCH DRIVE SHORT SOCKET ADAPTER	B71024-3
1	STRAIGHT EXTENSION ADAPTER	B71024-39
1	1/2-INCH DRIVE LONG SOCKET ADAPTER	B71024-37
1	3/4-INCH SHORT SOCKET ADAPTER	B71024-38
1	13/16-INCH WRENCH ASSEMBLY	B71024-18
1	SHIM ASSEMBLY	B71024-11
1	11/16-INCH BREAKER BAR ASSEMBLY	B71024-25
1	15/16-INCH WRENCH ASSEMBLY	B71024-26
1	BENT EXTENSION ADAPTER	B71024-40
1	15/16-INCH SOCKET ADAPTER	IMD302
1	3/4-INCH DRIVE, FIXED HEAD RATCHET TORQUE WRENCH	QD4R600
1	1/2-INCH DRIVE, FIXED-HEAD RATCHET TORQUE WRENCH	QD3R250
1	THRUST REVERSER ISOLATION VALVE LOCK	B78001-1
1	3/4-INCH DRIVE BREAKER BAR HEAD	L8112A
1	36-INCH HANDLE	L872RM
1	1/2-INCH DRIVE, FLEX-HEAD RATCHET	S711A
1	1/2-INCH DRIVE BREAKER BAR	SN24C
1	STORAGE BOX	

WEIGHT: B71024-35 - 12 lbs (5.4 kg)
B71024-36 - 24 lbs (11 kg)

DIMENSIONS: B71024-35 - 4 x 10 x 24 inches (102 x 254 x 610 mm)
B71024-36 - 4 x 20 x 36 inches (102 x 508 x 914 mm)

NOTE: B71024-35 supersedes B71024-17.
B71024-36 supersedes B71024-24.

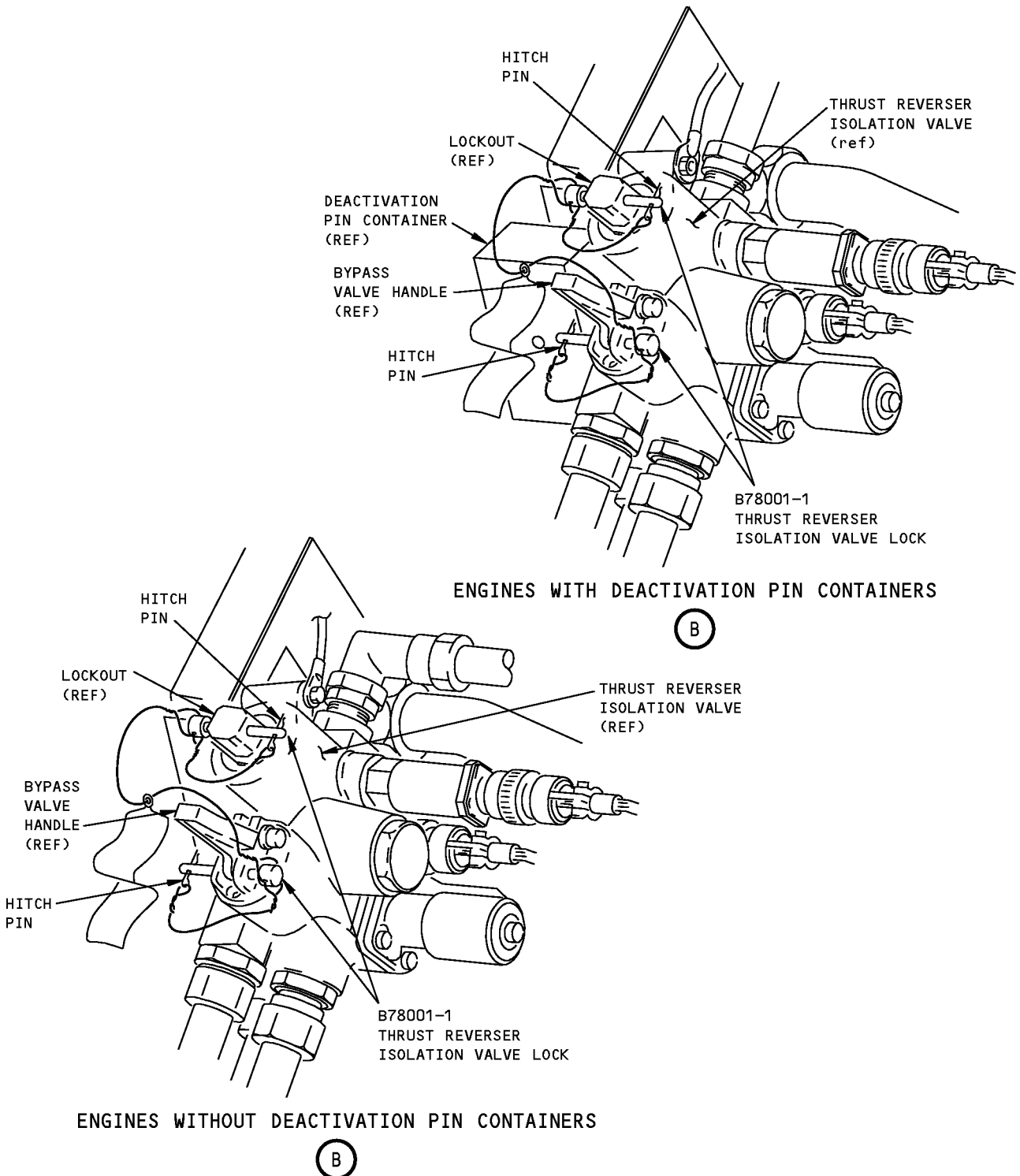
757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



W71820 S0000212534_V2

PW2000 Series Engine Change Tool Set
Figure 1 (Sheet 1 of 6)

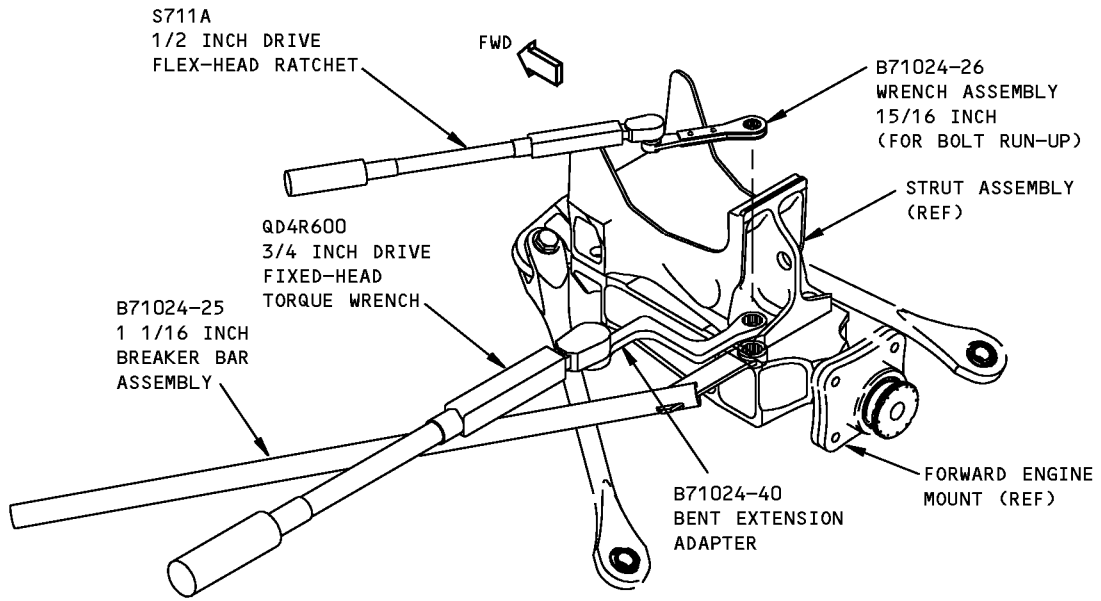
757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



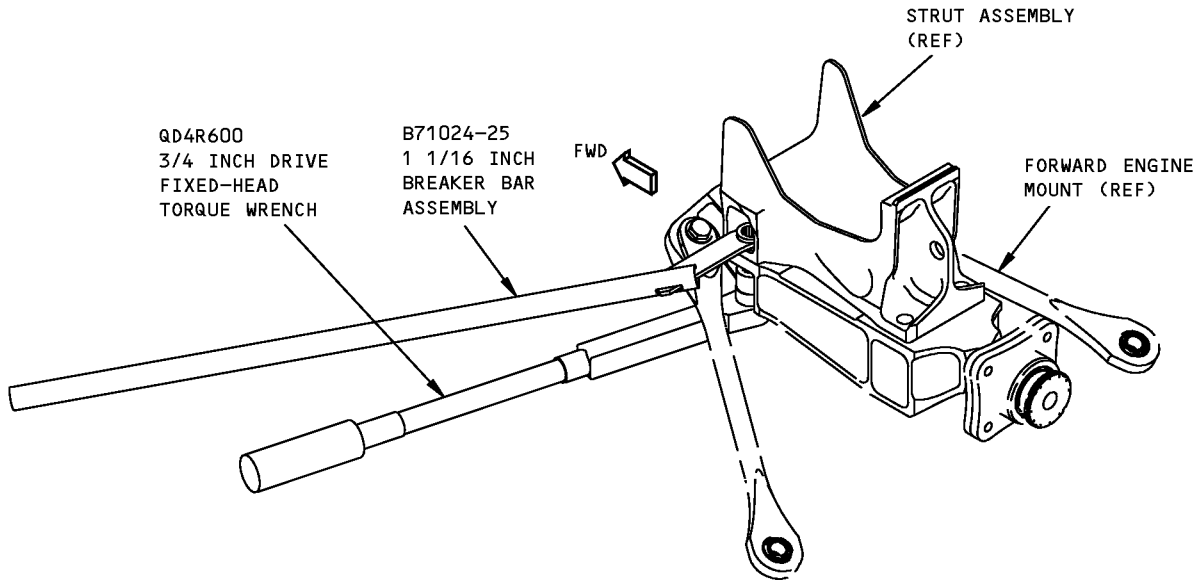
W71824 S0000212536_V2

PW2000 Series Engine Change Tool Set
Figure 1 (Sheet 2 of 6)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



FORWARD BOLTS



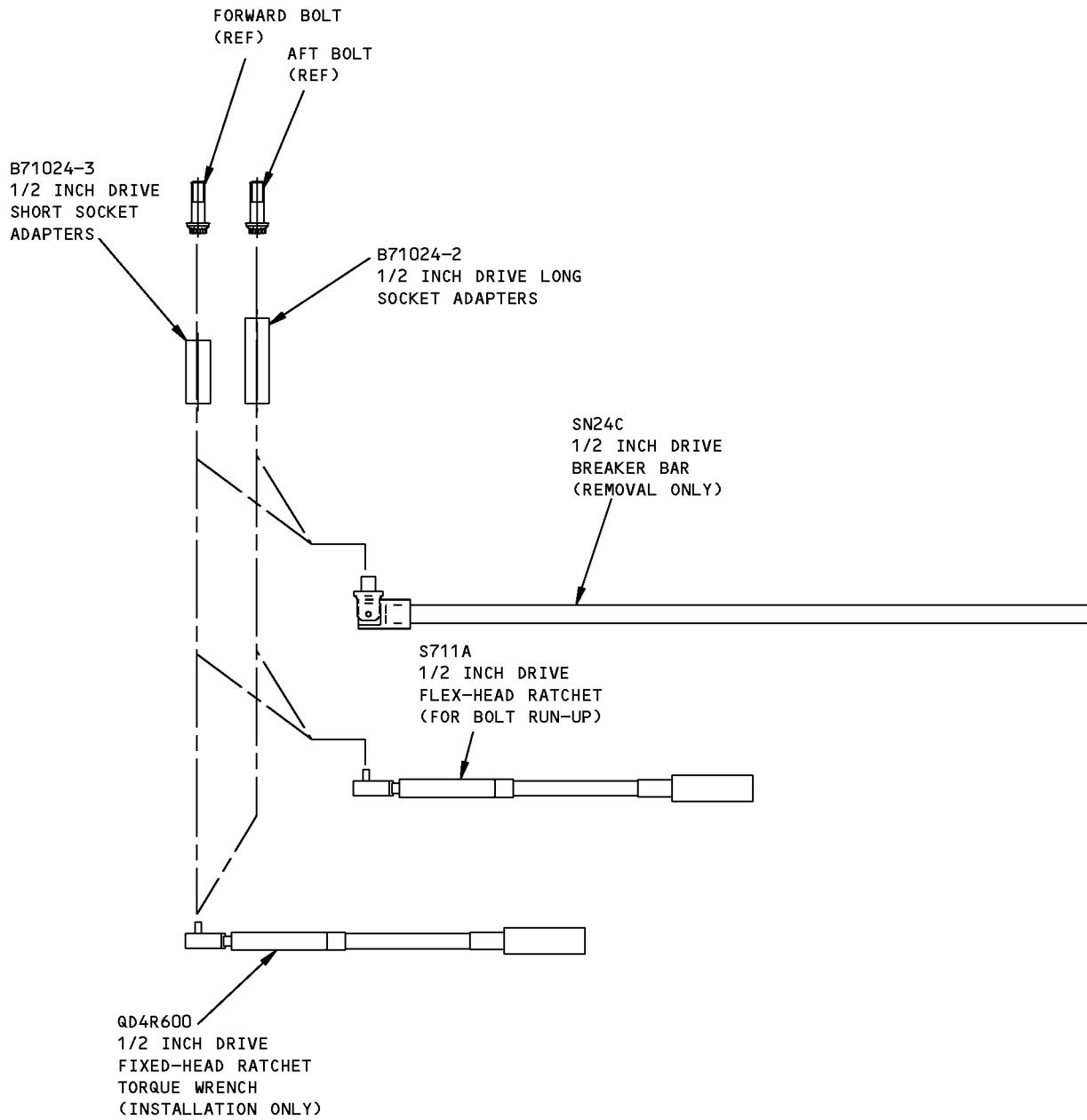
AFT BOLTS

FORWARD MOUNT INSTALLATION (757-300)

W71869 S0000212539_V2

**PW2000 Series Engine Change Tool Set
Figure 1 (Sheet 3 of 6)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

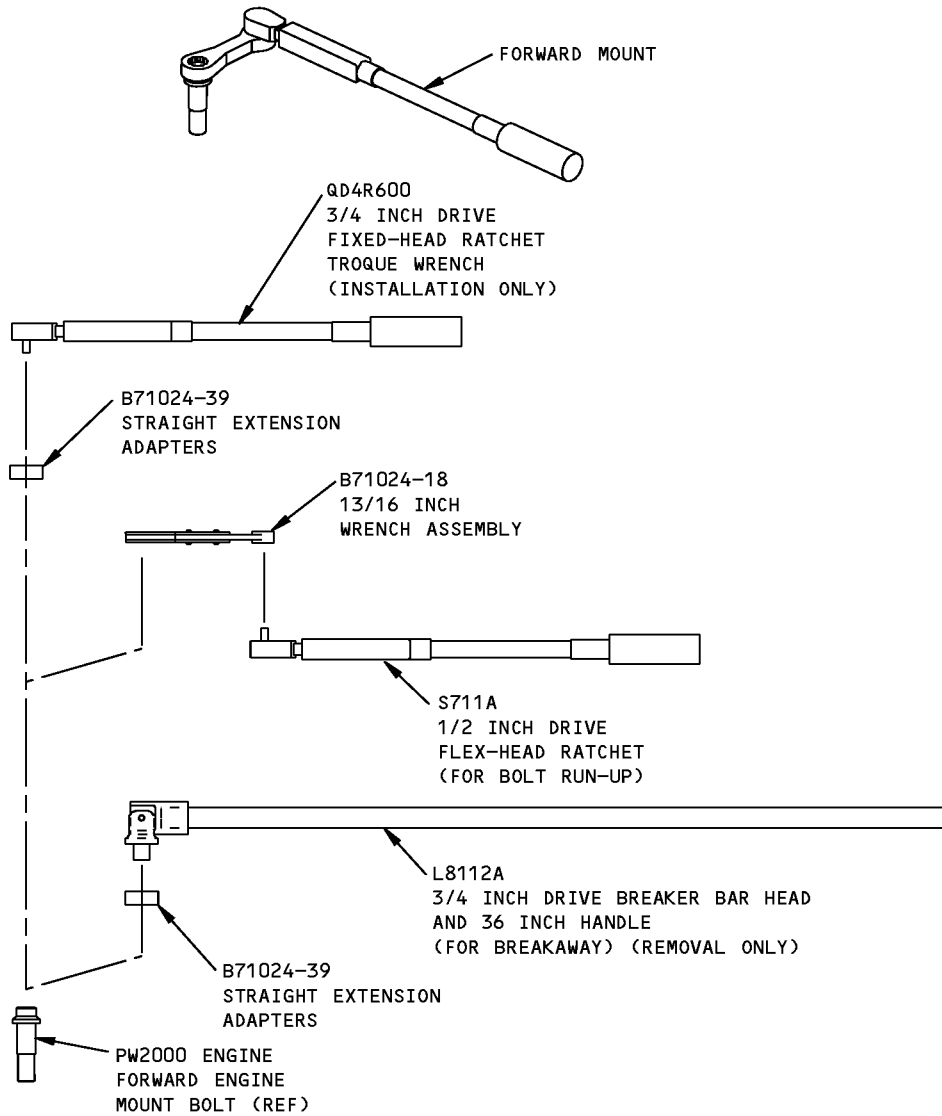


757-200
AFT MOUNT REMOVAL/INSTALLATION

W71874 S0000212541_V2

PW2000 Series Engine Change Tool Set
Figure 1 (Sheet 4 of 6)

757
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



757-200
FORWARD MOUNT REMOVAL/INSTALLATION

W71881 S0000212542_V2

PW2000 Series Engine Change Tool Set
Figure 1 (Sheet 5 of 6)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

B71024-3,-38

SHORT SOCKET ADAPTERS
(USED 1/2 INCH DRIVE
SHORT SOCKET ADAPTER
FOR BOLT RUN-UP, 3/4 INCH
DRIVE LONG SOCKET ADAPTER
FOR TORQUE AND BREAKAWAY)

FORWARD BOLT
(REF) AFT BOLT
(REF)

B71024-2,-37

LONG SOCKET ADAPTERS
(USED 1/2 INCH DRIVE
LONG SOCKET ADAPTER
FOR BOLT RUN-UP, 3/4 INCH
DRIVE LONG SOCKET ADAPTER
FOR TORQUE AND BREAKAWAY)

L8112A

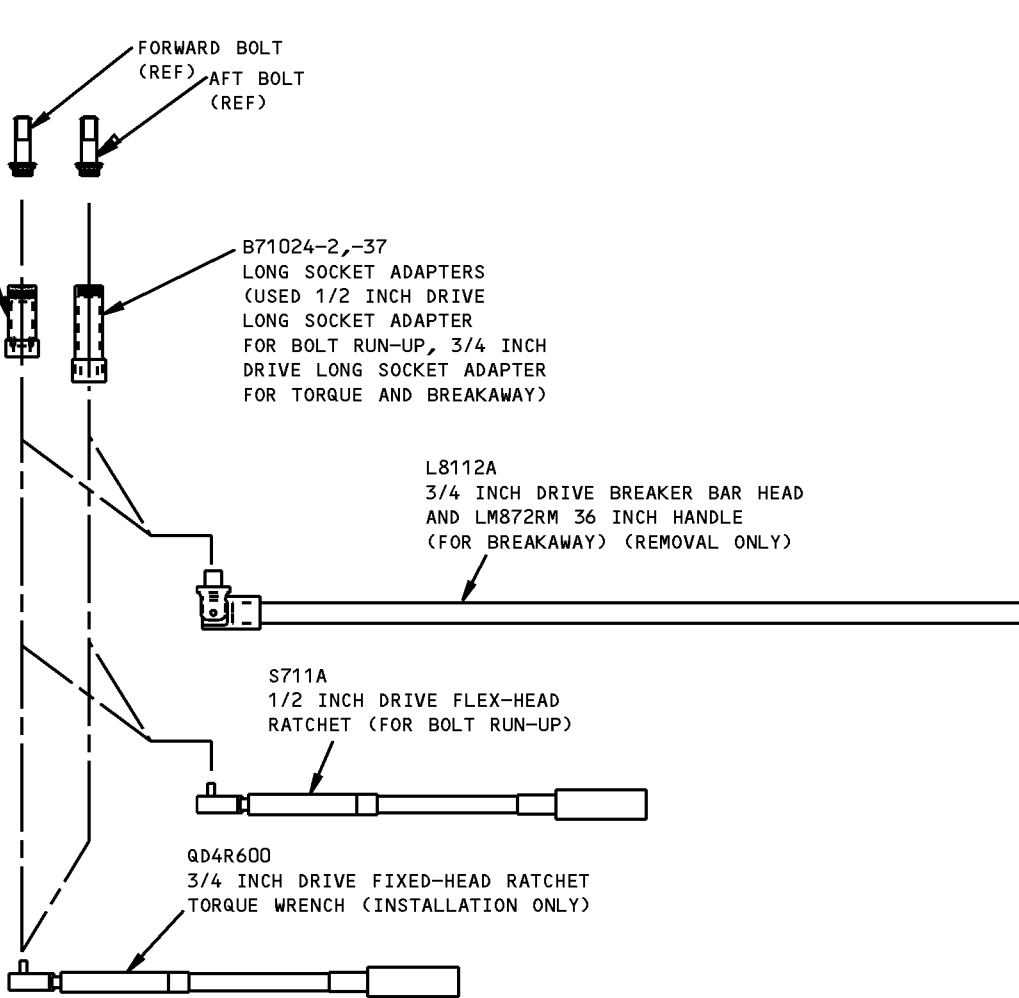
3/4 INCH DRIVE BREAKER BAR HEAD
AND LM872RM 36 INCH HANDLE
(FOR BREAKAWAY) (REMOVAL ONLY)

S711A

1/2 INCH DRIVE FLEX-HEAD
RATCHET (FOR BOLT RUN-UP)

QD4R600

3/4 INCH DRIVE FIXED-HEAD RATCHET
TORQUE WRENCH (INSTALLATION ONLY)



757-300

AFT MOUNT REMOVAL/INSTALLATION

W71896 S0000212543_V2

**PW2000 Series Engine Change Tool Set
Figure 1 (Sheet 6 of 6)**