

**CHAPTER**

**32**

**LANDING GEAR**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

CHAPTER 32  
LANDING GEAR

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
EFFECTIVE PAGES		32-10-06 (cont)		32-10-15	
1 thru 5	Apr 10/2008	5	Apr 10/2006	1	Apr 10/2006
6	BLANK	6	BLANK	2	Apr 10/2006
32-CONTENTS		32-10-07		3	Apr 10/2006
1	Apr 10/2006	1	Apr 10/2006	4	Apr 10/2006
R 2	Apr 10/2008	2	Apr 10/2006	32-10-16	
3	Apr 10/2006	3	Apr 10/2006	1	Apr 10/2006
4	Apr 10/2006	4	BLANK	2	Apr 10/2006
R 5	Apr 10/2008	32-10-08		32-10-17	
6	Apr 10/2006	1	Apr 10/2006	1	Apr 10/2006
32-00-01		2	Apr 10/2006	2	Apr 10/2006
1	Apr 10/2006	3	Apr 10/2006	3	Apr 10/2006
2	Apr 10/2006	4	Apr 10/2006	4	BLANK
3	Apr 10/2006	32-10-09		32-10-18	
4	Apr 10/2006	1	Apr 10/2006	1	Apr 10/2006
32-00-02		2	Apr 10/2006	2	Apr 10/2006
1	Apr 10/2006	32-10-10		3	Apr 10/2006
2	Apr 10/2006	1	Apr 10/2006	4	BLANK
32-10-01		2	Apr 10/2006	32-10-19	
1	Apr 10/2006	3	Apr 10/2006	1	Apr 10/2006
2	Apr 10/2006	4	BLANK	2	Apr 10/2006
32-10-02		32-10-11		3	Apr 10/2006
1	Apr 10/2006	1	Apr 10/2006	4	Apr 10/2006
2	Apr 10/2006	2	Apr 10/2006	5	Apr 10/2006
32-10-03		3	Oct 10/2007	6	BLANK
1	Apr 10/2006	4	Oct 10/2007	32-10-20	
2	Apr 10/2006	5	Oct 10/2007	1	Apr 10/2006
32-10-04		6	BLANK	2	BLANK
1	Apr 10/2006	32-10-12		32-10-21	
2	Apr 10/2006	1	Apr 10/2006	1	Apr 10/2006
32-10-05		2	Apr 10/2006	2	BLANK
1	Oct 10/2007	3	Apr 10/2006	32-10-22	
2	Apr 10/2007	4	BLANK	1	Apr 10/2006
3	Apr 10/2007	32-10-13		2	Apr 10/2006
4	Apr 10/2006	1	Apr 10/2006	3	Apr 10/2006
32-10-06		2	Apr 10/2006	4	BLANK
1	Apr 10/2006	32-10-14		32-10-23	
2	Apr 10/2006	1	Apr 10/2006	1	Apr 10/2006
3	Apr 10/2006	2	Apr 10/2006	2	Apr 10/2006
4	Apr 10/2006			3	Apr 10/2006

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

# 32-EFFECTIVE PAGES



**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**CHAPTER 32**  
**LANDING GEAR**

<b>Subject/Page</b>	<b>Date</b>	<b>Subject/Page</b>	<b>Date</b>	<b>Subject/Page</b>	<b>Date</b>
32-10-23 (cont)		32-10-34 (cont)		32-10-45	
4	Apr 10/2006	2	Apr 10/2006	1	Apr 10/2006
32-10-24		32-10-35		2	Apr 10/2006
1	Apr 10/2006	1	Apr 10/2006	3	Apr 10/2006
2	Apr 10/2006	2	BLANK	4	Apr 10/2006
32-10-25		32-10-36		5	Apr 10/2006
1	Apr 10/2006	1	Apr 10/2006	6	BLANK
2	Apr 10/2006	2	Apr 10/2006	32-10-46	
32-10-26		3	Apr 10/2006	1	Apr 10/2006
1	Apr 10/2006	4	BLANK	2	Apr 10/2006
2	Apr 10/2006	32-10-37		3	Apr 10/2006
32-10-27		1	Apr 10/2006	4	Apr 10/2006
1	Apr 10/2006	2	BLANK	32-10-47	
2	Apr 10/2006	32-10-38		1	Apr 10/2006
32-10-28		1	Apr 10/2006	2	Apr 10/2006
1	Apr 10/2006	2	Apr 10/2006	3	Apr 10/2006
2	Apr 10/2006	32-10-39		4	BLANK
3	Apr 10/2006	1	Apr 10/2006	32-10-48	
4	BLANK	2	Apr 10/2006	1	Apr 10/2006
32-10-29		32-10-40		2	Apr 10/2006
1	Apr 10/2006	1	Apr 10/2006	32-10-49	
2	Apr 10/2006	2	Apr 10/2006	1	Oct 10/2006
3	Apr 10/2006	3	Apr 10/2006	2	Apr 10/2006
4	BLANK	4	BLANK	3	Apr 10/2006
32-10-30		32-10-41		4	BLANK
1	Apr 10/2006	R 1	Apr 10/2008	32-10-50	
2	Apr 10/2006	R 2	Apr 10/2008	1	Apr 10/2006
32-10-31		R 3	Apr 10/2008	2	Apr 10/2006
1	Apr 10/2006	R 4	Apr 10/2008	3	Apr 10/2006
2	Apr 10/2006	R 5	Apr 10/2008	4	BLANK
3	Apr 10/2006	6	BLANK	32-10-51	
4	BLANK	32-10-42		1	Apr 10/2006
32-10-32		1	Oct 10/2007	2	Apr 10/2006
1	Apr 10/2006	2	Apr 10/2006	3	Apr 10/2006
2	BLANK	32-10-43		4	Apr 10/2006
32-10-33		1	Apr 10/2006	5	Apr 10/2006
1	Apr 10/2006	2	BLANK	6	BLANK
2	BLANK	32-10-44		32-10-52	
32-10-34		1	Apr 10/2006	1	Apr 10/2006
1	Apr 10/2007	2	BLANK	2	Apr 10/2006

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

# 32-EFFECTIVE PAGES



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

CHAPTER 32  
LANDING GEAR

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
32-10-52 (cont)		32-10-59		32-20-07	
3	Apr 10/2006	1	Apr 10/2006	1	Apr 10/2006
4	Apr 10/2006	2	Apr 10/2006	2	BLANK
5	Apr 10/2006	32-10-60		32-20-08	
6	Apr 10/2006	1	Apr 10/2006	1	Apr 10/2006
7	Apr 10/2006	2	Apr 10/2006	2	Apr 10/2006
8	BLANK	3	Apr 10/2006	32-20-09	
32-10-53		4	Apr 10/2006	1	Apr 10/2006
1	Apr 10/2006	5	Apr 10/2006	2	Apr 10/2006
2	Apr 10/2006	6	Apr 10/2006	32-20-10	
3	Apr 10/2006	7	Apr 10/2006	1	Apr 10/2006
4	Apr 10/2006	8	Apr 10/2006	2	Apr 10/2006
5	Apr 10/2006	9	Apr 10/2006	32-20-11	
6	BLANK	10	Apr 10/2006	1	Apr 10/2006
32-10-54		32-20-01		2	Apr 10/2006
1	Apr 10/2006	1	Oct 10/2006	32-20-12	
2	Apr 10/2006	2	Apr 10/2006	1	Apr 10/2006
3	Apr 10/2006	3	Apr 10/2006	2	Apr 10/2006
4	BLANK	4	BLANK	32-20-13	
32-10-55		32-20-02		1	Apr 10/2006
1	Apr 10/2006	1	Oct 10/2007	2	Apr 10/2006
2	Apr 10/2006	2	Oct 10/2007	32-20-14	
3	Apr 10/2006	3	Oct 10/2007	1	Apr 10/2006
4	Apr 10/2006	4	BLANK	2	Apr 10/2006
32-10-56		32-20-03		32-20-15	
1	Apr 10/2006	1	Apr 10/2007	1	Apr 10/2006
2	Apr 10/2006	2	Apr 10/2006	2	BLANK
3	Apr 10/2006	3	Apr 10/2006	32-20-16	
4	Apr 10/2006	4	Apr 10/2006	1	Apr 10/2006
32-10-57		32-20-04		2	Apr 10/2006
1	Apr 10/2006	1	Apr 10/2006	3	Apr 10/2006
2	Apr 10/2006	2	Apr 10/2006	4	Apr 10/2006
3	Apr 10/2006	32-20-05		5	Apr 10/2006
4	Apr 10/2006	1	Apr 10/2006	6	Apr 10/2006
32-10-58		2	Apr 10/2006	32-20-17	
1	Apr 10/2006	32-20-06		1	Apr 10/2006
2	Apr 10/2006	1	Apr 10/2006	2	Apr 10/2006
3	Apr 10/2006	2	Apr 10/2006	3	Apr 10/2006
4	BLANK	3	Apr 10/2006	4	BLANK
		4	BLANK		

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

# 32-EFFECTIVE PAGES



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

CHAPTER 32  
LANDING GEAR

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
32-20-18		32-30-04 (cont)		32-30-16	
1	Apr 10/2006	2	Apr 10/2006	1	Apr 10/2006
2	Apr 10/2006	32-30-05		2	Apr 10/2006
32-20-19		1	Apr 10/2006	3	Apr 10/2006
1	Apr 10/2006	2	BLANK	4	BLANK
2	Apr 10/2006	32-30-06		32-30-17	
32-20-20		1	Apr 10/2006	1	Apr 10/2006
1	Apr 10/2006	2	Apr 10/2006	2	Apr 10/2006
2	BLANK	32-30-07		3	Apr 10/2006
32-20-21		1	Apr 10/2006	4	Apr 10/2006
1	Apr 10/2006	2	Apr 10/2006	5	Apr 10/2006
2	BLANK	3	Apr 10/2006	6	Apr 10/2006
32-20-22		4	BLANK	7	Apr 10/2006
1	Apr 10/2006	32-30-08		8	Apr 10/2006
2	Apr 10/2006	1	Apr 10/2006	9	Apr 10/2006
3	Apr 10/2006	2	BLANK	10	Apr 10/2006
4	Apr 10/2006	32-30-09		11	Apr 10/2006
5	Apr 10/2006	1	Apr 10/2006	12	Apr 10/2006
6	Apr 10/2006	2	Apr 10/2006	13	Apr 10/2006
7	Apr 10/2006	3	Apr 10/2006	14	Apr 10/2006
8	Apr 10/2006	4	BLANK	15	Apr 10/2006
32-30-01		32-30-10		16	BLANK
1	Apr 10/2006	1	Apr 10/2006	32-30-18	
2	Apr 10/2006	2	Apr 10/2006	1	Apr 10/2006
32-30-02		32-30-11		2	Apr 10/2006
1	Apr 10/2006	1	Apr 10/2006	3	Apr 10/2006
2	Apr 10/2006	2	Apr 10/2006	4	Apr 10/2006
3	Apr 10/2006	32-30-12		5	Apr 10/2006
4	Apr 10/2006	1	Apr 10/2006	6	Apr 10/2006
5	Apr 10/2006	2	Apr 10/2006	7	Apr 10/2006
6	Apr 10/2006	32-30-13		8	Apr 10/2006
7	Apr 10/2006	1	Apr 10/2006	32-40-01	
8	Apr 10/2006	2	BLANK	1	Apr 10/2006
9	Apr 10/2006	32-30-14		2	Apr 10/2006
10	BLANK	1	Apr 10/2006	32-40-02	
32-30-03		2	Apr 10/2006	1	Apr 10/2006
1	Apr 10/2006	32-30-15		2	Apr 10/2006
2	Apr 10/2006	1	Apr 10/2006	32-40-03	
32-30-04		2	BLANK	1	Apr 10/2006
1	Apr 10/2006			2	Apr 10/2006

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

# 32-EFFECTIVE PAGES



**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**CHAPTER 32**  
**LANDING GEAR**

<b>Subject/Page</b>	<b>Date</b>	<b>Subject/Page</b>	<b>Date</b>	<b>Subject/Page</b>	<b>Date</b>
32-40-04		32-50-01			
1	Apr 10/2006	1	Apr 10/2006		
2	Apr 10/2006	2	BLANK		
32-40-05		32-50-02			
1	Apr 10/2006	1	Apr 10/2006		
2	Apr 10/2006	2	BLANK		
32-40-06		32-50-03			
1	Apr 10/2006	1	Apr 10/2006		
2	Apr 10/2006	2	Apr 10/2006		
32-40-07		32-50-04			
1	Apr 10/2006	1	Apr 10/2006		
2	Apr 10/2006	2	Apr 10/2006		
32-40-08		32-50-05			
1	Apr 10/2006	1	Apr 10/2006		
2	BLANK	2	Apr 10/2006		
32-40-09		32-60-01			
1	Apr 10/2006	1	Apr 10/2006		
2	Apr 10/2006	2	Apr 10/2006		
3	Apr 10/2006	32-60-02			
4	BLANK	1	Apr 10/2006		
32-40-10		2	Apr 10/2006		
R 1	Apr 10/2008	32-60-03			
2	Apr 10/2006	1	Apr 10/2006		
32-40-11		2	BLANK		
1	Apr 10/2006	32-70-01			
2	Apr 10/2006	1	Apr 10/2006		
3	Apr 10/2006	2	BLANK		
4	BLANK	32-70-02			
32-40-12		1	Apr 10/2006		
1	Apr 10/2006	2	Apr 10/2006		
2	Apr 10/2006	32-70-03			
32-40-13		1	Apr 10/2006		
1	Apr 10/2006	1	Apr 10/2006		
2	Apr 10/2006				
32-40-14					
1	Oct 10/2006				
2	Apr 10/2006				
3	Apr 10/2006				
4	BLANK				

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

# 32-EFFECTIVE PAGES



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

### TABLE OF CONTENTS

<u>Subject</u>	<u>Title</u>	<u>Part No.</u>
<b>32-</b>	<b>LANDING GEAR</b>	
32-00-01	KIT - CROWFOOT WRENCHES	F70312-25, -27, -28, -29, -30, -31, -32, -34, -35, -39, -40, -41, -45, -46, -47, -48, -49, -50, -52
32-00-02	BREAKOUT BOX - RELAY SYSTEM, AIR/GROUND	A32074-1
32-10-01	SPRING EXTENDER - DRAG STRUT, MAIN LANDING GEAR (MLG)	A32002-14
32-10-02	SLING - MAIN LANDING GEAR (MLG)	A32033-17
32-10-03	SPRING COMPRESSOR - SIDE STRUT, MAIN LANDING GEAR (MLG)	A32003-1
32-10-04	PIN - ALIGNMENT, TRUCK AXLE BEAM, MAIN LANDING GEAR (MLG)	A32054-1
32-10-05	REPLACEMENT EQUIPMENT - SEAL, LOWER BEARING, MAIN LANDING GEAR (MLG)	A32005-54
32-10-06	SLING EQUIPMENT - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)	A32006-75, -77
32-10-07	PROTECTOR EQUIPMENT - AXLE AND AXLE THREAD, MAIN LANDING GEAR (MLG)	A32007-17
32-10-08	PIN PULLER - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)	A32010-1
32-10-09	WRENCH - WHEEL RETAINING NUT, MAIN LANDING GEAR (MLG)	A32012-12, -13, -6, -9
32-10-10	INSTALLATION/REMOVAL TOOL - DOWNLOCK, MAIN LANDING GEAR (MLG) AND NOSE LANDING GEAR (NLG)	A32015-9
32-10-11	SLING EQUIPMENT - MAIN LANDING GEAR (MLG) COMPONENTS	A32008-51, -53
32-10-12	SLING EQUIPMENT - DRAG AND SIDE STRUT REMOVAL/ INSTALLATION, MAIN LANDING GEAR (MLG)	A32105-1
32-10-13	TEST FIXTURE - SIDE AND DRAG BRACE LOCK ACTUATOR, MAIN LANDING GEAR (MLG)	A32063-7
32-10-14	RETENTION STRAP - INNER CYLINDER - MAIN LANDING GEAR (MLG) AND NOSE LANDING GEAR (NLG)	A32028-6
32-10-15	LOCK - MAIN LANDING (MLG) GEAR DOOR	A32030-10, -12, -18, -21, -4, -6
32-10-16	TURNBUCKLE - TRUCK POSITION ACTUATOR, MAIN LANDING GEAR (MLG)	A32031-4, -5
32-10-17	PULLER EQUIPMENT - FUSE BOLTS, FORWARD TRUNNION SUPPORT, MAIN LANDING GEAR (MLG)	A32017-1

## 32-CONTENTS



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

<u>Subject</u>	<u>Title</u>	<u>Part No.</u>
32-10-18	REMOVAL/INSTALLATION EQUIPMENT - TRUNNION PIN, MAIN LANDING GEAR (MLG)	A32026-60
32-10-19	REMOVAL/INSTALLATION EQUIPMENT - MAIN LANDING GEAR (MLG)	A32032-39, -52, -64, -65
32-10-20	REMOVAL TOOL - MAIN LANDING GEAR (MLG) BOGIE PIVOT PIN	A32039-1
32-10-21	TEST FIXTURE - ACTUATOR, MAIN LANDING GEAR (MLG) DOOR LATCH	A32043-1
32-10-22	FISHPOLE HOIST ATTACH BRACKET - MAIN LANDING GEAR (MLG) DOOR	A32046-17
32-10-23	COMPONENT MAINTENANCE EQUIPMENT - SHOCK STRUT, MAIN LANDING GEAR (MLG)	A32051-1
32-10-24	STAND EQUIPMENT - MAIN LANDING GEAR (MLG) BUILDUP	A32056-1
32-10-25	FIXTURE - TEST, MAIN LANDING GEAR (MLG) DOOR ARMING LOCKOUT ACTUATOR	A32064-1
32-10-26	LOCATING JIG - SEQUENCE VALVE, MAIN LANDING GEAR (MLG) OPERATED	A32055-1
32-10-27	RIGGING BAR - MAIN GEAR SIDE STRUT	A32073-1
32-10-28	ASSEMBLY FIXTURE - MAIN LANDING GEAR (MLG)	B32050-1, -50
32-10-29	PULLER EQUIPMENT - BUSHING, MAIN LANDING GEAR (MLG) BOGIE BEAM	A32067-1, -11, -13
32-10-30	GAUGE - MAIN LANDING GEAR (MLG) DOOR, OPEN POSITION	A32077-1
32-10-31	PULLER EQUIPMENT - BRAKE SLEEVE, MAIN LANDING GEAR (MLG) AXLE	A32079-1
32-10-32	PLUG - BUSHING INSTALLATION, MAIN LANDING GEAR (MLG) BOGIE	A32081-1
32-10-33	GUIDE - PIVOT PIN, MAIN LANDING GEAR (MLG)	A32082-1
32-10-34	AXLE PULLER - MAIN LANDING GEAR (MLG)	A32083-12
32-10-35	JIG - DOWNLOCK STOP SHIM ADJUSTMENT	A32086-1
32-10-36	JIG EQUIPMENT - REAMING, TRUNNION SUPPORT, MAIN LANDING GEAR (MLG)	A57001-1
32-10-37	SWAGING FIXTURE - PISTON ROD, MAIN LANDING GEAR (MLG)	A32089-1
32-10-38	GAGE EQUIPMENT - RIGGING, BRAKE QUADRANT, MAIN LANDING GEAR (MLG)	A32092-1
32-10-39	WRENCH - BEARING RETAINING BOLT, MAIN LANDING GEAR (MLG)	A32095-1
32-10-40	PROTECTOR EQUIPMENT - AXLE, MAIN LANDING GEAR (MLG)	A32098-1, -12
I 32-10-41	SPRING EXTENDER EQUIPMENT	A32099-38, -77, -78
32-10-42	DRAIN EQUIPMENT - OLEO STRUT, MAIN LANDING GEAR (MLG)/NOSE LANDING GEAR (NLG)	J32060-1

# 32-CONTENTS





767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

<u>Subject</u>	<u>Title</u>	<u>Part No.</u>
32-10-43	ADAPTER ASSEMBLY WRENCH - LANDING GEAR WHEEL RETAINING NUT	MIT65B01202-1
32-10-44	ALIGNMENT PIN - MAIN LANDING GEAR (MLG) TOW FITTING	J32065-1
32-10-45	SHOCK STRUT EQUIPMENT - COMPONENT MAINTENANCE, MAIN LANDING GEAR (MLG)	A32106-1
32-10-46	PULLER EQUIPMENT - WHEEL AND BRAKE SLEEVES, MAIN LANDING GEAR (MLG) AXLES	J32010-58, -62
32-10-47	RIGGING TUBE EQUIPMENT - SIDE STRUT, MAIN LANDING GEAR (MLG)	A32111-1
32-10-48	REMOVAL EQUIPMENT - MAIN LANDING GEAR (MLG) BOGIE PIVOT PIN	A32116-1
32-10-49	SLING EQUIPMENT - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)	A32108-1, -2
32-10-50	PULLER EQUIPMENT - FUSE PIN, FORWARD TRUNNION, MAIN LANDING GEAR (MLG)	A32104-1
32-10-51	OVERHEAD INSTALLATION/REMOVAL EQUIPMENT - MAIN LANDING GEAR (MLG)	A32115-1, -2, -6
32-10-52	REPLACEMENT EQUIPMENT - LOWER BEARING SEALS, MAIN LANDING GEAR (MLG)	A32107-1
32-10-53	PIN INSTALLATION/REMOVAL KIT - MAIN LANDING GEAR (MLG)	A32109-41
32-10-54	REMOVAL/INSTALLATION GUIDE EQUIPMENT - AFT TRUNNION, MAIN LANDING GEAR (MLG)	A32112-1
32-10-55	TORQUE ADAPTER SET - ACTUATOR COMPONENTS, MAIN LANDING GEAR (MLG)	A32120-1
32-10-56	PIN PULLER EQUIPMENT - BRAKE ROD, MAIN LANDING GEAR	A32110-1
32-10-57	HOIST EQUIPMENT - AIRPLANE RECOVERY, WITHOUT MAIN LANDING GEAR (MLG)	A07011-1, -2
32-10-58	TRUCK POSITION RETAINER AND OLEO LOCK EQUIPMENT - MAIN LANDING GEAR (MLG)	A32114-64
32-10-59	FISHPOLE HOIST ATTACH BRACKET EQUIPMENT - MAIN LANDING GEAR (MLG) DOOR	A32118-1
32-10-60	FIXTURE EQUIPMENT - LANDING GEAR ACTUATOR ASSEMBLIES	A32121-1
32-20-01	PULLER - TRUNNION PINS, NOSE LANDING GEAR	A32011-1
32-20-02	PIN PULLER - UPPER DRAG BRACE, NOSE LANDING GEAR	A32013-1
32-20-03	DOWNLOCK - MAIN LANDING GEAR (MLG) AND NOSE LANDING GEAR (NLG)	A32014-1, -2
32-20-04	WRENCH ADAPTER - GLAND NUT, NOSE LANDING GEAR	A32021-1
32-20-05	PROTECTOR - AXLE, NOSE LANDING GEAR (NLG)	A32022-1
32-20-06	SPRING EXTENDER - LOCK LINK, NOSE LANDING GEAR	A32018-1

# 32-CONTENTS



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

<u>Subject</u>	<u>Title</u>	<u>Part No.</u>
32-20-08	HOIST ADAPTER - DRAG STRUT, NOSE LANDING GEAR	A32020-1
32-20-09	SLING - RETRACT ACTUATOR, NOSE LANDING GEAR (NLG)	A32023-1
32-20-10	WRENCH ADAPTER - STEERING NUT, NOSE LANDING GEAR (NLG)	A32034-1
32-20-11	WRENCH - STEERING ACTUATOR, NOSE LANDING GEAR (NLG)	A32035-1
32-20-12	PROTECTOR EQUIPMENT - EXTERNALLY THREADED AXLE, NOSE LANDING GEAR (NLG)	A32097-1
32-20-13	HOLDING FIXTURE - ACTUATOR LOCK, NOSE LANDING GEAR (NLG)	A32058-1
32-20-14	BUILDUP STAND - NOSE LANDING GEAR (NLG)	A32057-1, -40
32-20-15	WRENCH - SPANNER, FACE TYPE	ST2580-381
32-20-16	REPLACEMENT EQUIPMENT - LOWER SEAL, NOSE LANDING GEAR (NLG)	A32029-26, -48, -50
32-20-17	HOIST EQUIPMENT - NOSE LANDING GEAR (NLG) INSTALLATION/REMOVAL	A32036-43, -66
32-20-18	TRANSPORTATION DOLLY - NOSE LANDING GEAR (NLG), 757 AND 767	A32038-1, -23
32-20-19	GAUGE - DOWN LOCK LINK ADJUSTMENT, NOSE LANDING GEAR (NLG)	A32094-1
32-20-20	WRENCH - ROD END	A32040-10, -12, -15, -4, -7
32-20-21	TORQUE ADAPTER - CYLINDER, NOSE LANDING GEAR (NLG) RETRACT ACTUATOR	A32041-1
32-20-22	COMPONENT MAINTENANCE EQUIPMENT - SHOCK STRUT, NOSE LANDING GEAR (NLG)	A32047-1, -29
32-30-01	WRENCH ADAPTER - GLAND NUT, MAIN LANDING GEAR (MLG)	A32004-1, -4, -5
32-30-02	PUMP - RETRACTION/EXTENSION LANDING GEAR ACTUATOR	A32027-175, -176, -178, -53
32-30-03	FIXTURE - FUNCTIONAL TEST, SIDE STRUT SPRING ASSEMBLY	A32042-1
32-30-04	TORQUE FIXTURE - ACTUATOR PISTON, MAIN LANDING GEAR (MLG) AND NOSE LANDING GEAR (NLG)	A32050-1
32-30-05	RESTRAINING WRENCH - MAIN LANDING GEAR (MLG) RETRACT ACTUATOR SUPPORT PIN	A32065-1
32-30-06	TEST STAND - TRUCK POSITIONER, MAIN LANDING GEAR (MLG)	A32068-7
32-30-07	HOLDING EQUIPMENT - ACTUATOR, MAIN LANDING GEAR (MLG) DOOR	A32059-13, -27
32-30-08	TORQUE ADAPTER - SNUBBER NUT	A32070-1
32-30-09	CLAMP EQUIPMENT - PISTON ROD, MAIN LANDING GEAR TRUCK POSITIONER ASSEMBLY	A32076-5

# 32-CONTENTS



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

<u>Subject</u>	<u>Title</u>	<u>Part No.</u>
32-30-10	ADAPTER SET - RETAINING NUT, ACTUATOR SIDE AND DRAG BRACE, MAIN LANDING GEAR (MLG)	A32078-1
32-30-11	HOLDING FIXTURE - PISTON ROD, NOSE LANDING GEAR (NLG) LOCK ACTUATOR	A32084-1
32-30-12	FORCE GAGE EQUIPMENT - LANDING GEAR LEVER	G32021-18
32-30-13	FIXTURE - HOLDING, MAIN LANDING GEAR RETRACT ACTUATOR	A32087-1
32-30-14	LOCATING JIG - SEQUENCE VALVE, MAIN LANDING GEAR (MLG) OPERATED	A32117-1
32-30-15	TEST STAND ASSEMBLY - TRUCK POSITIONER, MAIN LANDING GEAR (MLG)	A32119-1
32-30-16	PIN PULLER EQUIPMENT - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)	A32113-1
32-30-17	FIXTURE EQUIPMENT - LANDING GEAR ACTUATOR ASSEMBLY	J32057-1, -108, -94
32-30-18	FIXTURE EQUIPMENT - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)	A32122-1
32-40-01	PIN PULLER - BRAKE ROD, MAIN LANDING GEAR	A32016-17
32-40-02	WRENCH ADAPTER - WHEEL RETAINING AXLE NUT, NOSE LANDING GEAR	A32025-1
32-40-03	BRAKE DISCONNECT ASSEMBLY - FLIGHT DISPATCH	A32001-1
32-40-04	TEST FIXTURE - ACTUATOR, WHEEL BRAKE	A32060-1
32-40-05	WRENCH ADAPTER - RETAINER NUT, ANTI-SKID TRANSDUCER	A32069-1, -7
32-40-06	ADAPTER - ANTI-SKID TRANSDUCER SPIN-UP	A32075-1, -10, -9
32-40-07	INSTALLATION EQUIPMENT - BRAKE SLEEVE, MAIN LANDING GEAR (MLG)	A32100-1
32-40-08	WRENCH ADAPTER - AXLE NUT, NOSE LANDING GEAR	A32101-1
32-40-09	MEASURING EQUIPMENT - BRAKE PEDAL	J32001-63, -64
32-40-10	WRENCH EQUIPMENT - WHEEL RETENTION NUT, MAIN LANDING GEAR (MLG)	J32032-22
32-40-11	PULLER EQUIPMENT - BRAKE, MAIN LANDING GEAR	J32012-18
32-40-12	PROTECTOR EQUIPMENT - AXLE, MAIN LANDING GEAR	J32031-12
32-40-13	BRAKE DISCONNECT - FLIGHT DISPATCH	A32080-1
32-40-14	GAGE EQUIPMENT - HYDRAULIC BRAKE SYSTEM PRESSURE CHECKING	F72977-62
32-50-01	TEST FITTING - ACTUATOR, NOSE LANDING GEAR (NLG) STEERING	A32052-1
32-50-02	SPANNER WRENCH - RETAINING NUT, STEERING ACTUATOR, NOSE LANDING GEAR (NLG)	A32053-1
32-50-03	BACKLASH CHECK EQUIPMENT - NOSE LANDING GEAR (NLG) STEERING GEARBOX	A32061-1

# 32-CONTENTS



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

<u>Subject</u>	<u>Title</u>	<u>Part No.</u>
32-50-04	COMPRESSION TOOL - SPRING CARTRIDGE NOSE WHEEL STEERING	A32071-1
32-50-05	FIXTURE - FUNCTIONAL TEST, NOSE LANDING GEAR STEERING ACTUATOR	A32072-1
32-60-01	RIGGING EQUIPMENT - LANDING GEAR, AIR/GROUND SENSORS	A32096-70, -86
32-60-02	ACTUATOR SET - PROXIMITY SENSOR	A32102-1, -25
32-60-03	RIGGING ASSEMBLY - AIR/GROUND SENSORS, RIGHT HAND MAIN LANDING GEAR (MLG)	A32123-1
32-70-01	MAINTENANCE LOCK - RETRACTABLE TAIL SKID	A32088-7
32-70-02	HOIST EQUIPMENT - TAIL SKID SHOCK STRUT	A32090-14
32-70-03	LOCKOUT PIN - FORWARD AND AFT LOCK LINK, RETRACTABLE TAIL SKID	A32103-1

# 32-CONTENTS



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER:** F70312-25, -27, -28, -29, -30, -31, -32, -34, -35, -39, -40, -41, -45, -46, -47, -48, -49, -50, -52

**NAME:** KIT - CROWFOOT WRENCHES

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The F70312 crowfoot wrench kit is not a kit for use on 767 airplanes. For 767 airplanes, F70312 crowfoot wrenches consist of individual crowfoot wrenches for various applications. The F70312 crowfoot wrenches are used during line and component maintenance to remove, install and torque various main landing gear sub-assembly components. Each wrench is used with a customer-furnished square-drive torque wrench.

F70312-25 is used on 767-300ER increased gross weight (IGW) airplanes to torque the main landing gear (MLG) torsion link apex nut (161T1214-2 and -4). Refer to the F70312 drawing and AMM 32-11-22 for complete usage instructions. The dimensions for F70312-25 are 1/2 x 4.65 x 5.05 inches .

F70312-27 is used on all 767 airplanes to torque the main landing gear (MLG) upper drag strut nut (161T6024) and the nose landing gear (NLG) steering actuator seal nut (275T6228). Refer to the F70312 drawing, AMM 32-11-10, AMM 32-11-11, AMM 32-11-12, AMM 32-11-13, CMM 32-11-60 and CMM 32-51-10 for complete usage instructions. The dimensions for F70312-25 are 1/2 x 4.65 x 5.05 inches.

F70312-28 is used on 767-200 and -300 airplanes to torque the MLG lock link apex joint nut (161T2022). Refer to the F70312 drawing, AMM 32-11-18, AMM 32-11-19 and CMM 32-11-30 for complete usage instructions. The dimensions for F70312-28 are 1/2 x 4.8 x 4.6 inches.

F70312-29 is used on 767-200 and -300 airplanes to torque the MLG lower drag strut spindle nut (161T6019). Refer to the F70312 drawing, CMM 32-11-19 and CMM 32-11-20 for complete usage instructions. The dimensions for F70312-29 are 3/4 x 7.1 x 6.3 inches.

F70312-30 is used on 767-200 and -300 airplanes to torque the MLG retract actuator nut (161T5001). Refer to the F70312 drawing, AMM 55-17-51 and AMM 32-32-01 for complete usage instructions. The dimensions for F70312-30 are 1/2 x 4.18 x 4.0 inches.

F70312-31 is used on 767-200 and -300 airplanes to torque the MLG support tube shock strut nut (161T1163). Refer to the F70312 drawing for complete usage instructions. The dimensions for F70312-31 are 1/2 x 3.6 x 3.9 inches.

F70312-32 is used on 767-200 and -300 airplanes to torque nuts (161T6026, 161T2015 and 161T1196) on the lower drag strut and apex and aft trunnion



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

bearing clamp nut. Refer to the F70312 drawing, AMM 32-11-06, AMM 32-11-15, CMM 32-11-19, CMM 32-11-20 and CMM 32-11-60 for complete usage instructions. The dimensions for F70312-32 are 3/4 x 5.5 x 5.5 inches.

F70312-34 is used on 767-200 and -300 airplanes to torque the MLG spindle nut (161T0000). Refer to the F70312 drawing for complete usage instructions. The dimensions for F70312-34 are 3/4 x 7.9 x 7.1 inches.

F70312-35 is used on 767-200 and -300 airplanes to torque the MLG brake rod retention nut (69B14958). Refer to the F70312 drawing, AMM 32-11-20 and CMM 32-11-30 for complete usage instructions. The dimensions for F70312-352 are 1/2 x 3.2 x 3.3 inches.

F70312-39 is used on all 767 airplanes to torque the nose landing gear (NLG) retract actuator seal retainer nut (273T0003). Refer to the F70312 drawing and CMM 32-34-00 for complete usage instructions. The dimensions for F70312-39 are 1/2 x 7.0 x 7.1 inches.

F70312-40 is used on all 767 airplanes to torque the nose landing gear (NLG) retract actuator assembly snubber nut (69B80041). Refer to the F70312 drawing and CMM 32-34-00 for complete usage instructions. The dimensions for F70312-40 are 1/2 x 3.1 x 3.3 inches.

F70312-41 is used on all 767 airplanes to restrain the piston when torquing the NLG actuator rod snubber end (273T4116). Refer to the F70312 drawing and CMM 32-34-00 for complete usage instructions. The dimensions for F70312-41 are 3/4 x 5.3 x 5.9 inches.

F70312-52 is used on 767-200 and -300 airplanes to torque the piston end gland (273T1120) onto the MLG retract actuator. F70312-50 is made from a Snap-On FC80A crowfoot wrench. Refer to the F70312 drawing and CMM 32-32-00 for complete usage instructions. The dimensions for F70312-52 are 3/4 x 4.3 x 5.0 inches.

F70312-45 is used on 767-200 and -300 airplanes (except 767-300 IGW) to torque the MLG torsion link apex nut (161T1214-1, -3). Refer to the F70312 drawing, AMM 32-11-22 and CMM 32-11-30 for complete usage instructions. The dimensions for F70312-45 are 3/4 x 4.3 x 5.0 inches.

F70312-46 is used on 767-200 and -300 airplanes to torque the MLG forward bearing retainer bolt (161T1306). Refer to the F70312 drawing, CMM 32-11-19 and CMM 32-11-20 for complete usage instructions. The dimensions for F70312-46 are 3/4 x 6.1 x 6.5 inches.

F70312-47 is used on 767-200 and -300 airplanes to torque the MLG upper and lower side strut to spindle nut and apex side strut nut (161T2018). Refer to the F70312 drawing, AMM 32-11-03, AMM 32-11-04, AMM 32-11-05, AMM 32-11-08 and CMM 32-11-70 for complete usage instructions. The dimensions for F70312-47 are 3/4 x 4.6 x 5.2 inches.



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

F70312-48 is used on all 767 airplanes to torque the NAS1423-12 nut on the fork fitting assembly of the intake port of the auxiliary power system. The F70312-48 crowfoot wrench is made from the Snap-On SC036 crowfoot wrench. Refer to the F70312 drawing for complete usage instructions.

F70312-49 is used on all 767 airplanes to torque the inboard bushing nut (180T0002) for the pivot pin on the horizontal stabilizer and to remove the pivot nut on the horizontal stabilizer. Refer to the F70312 drawing for complete usage instructions. The dimensions for F70312-49 are 1/2 x 5.0 x 5.0 inches.

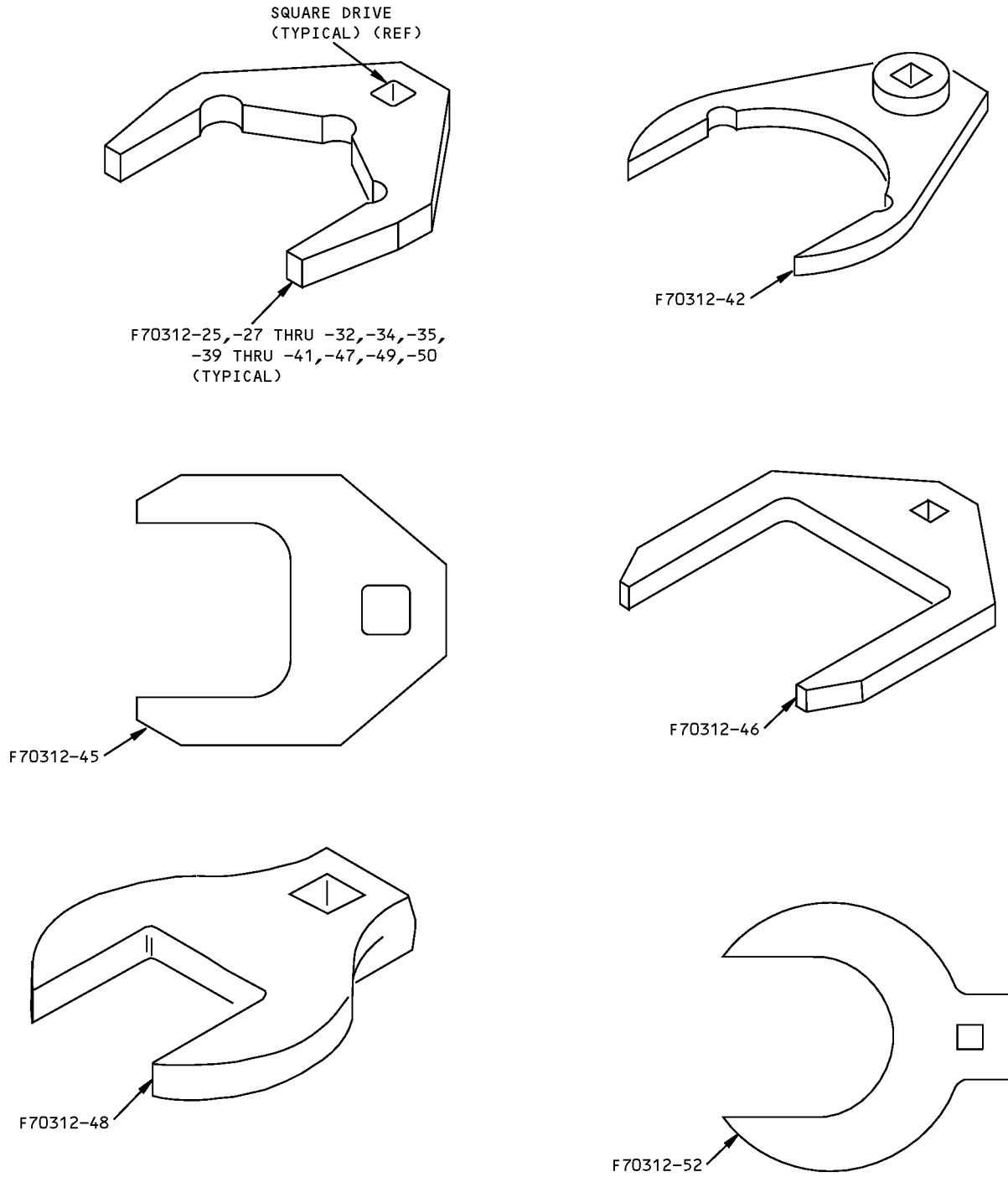
F70312-50 is used on all 767 airplanes to torque the trap fitting for the pivot pin on the horizontal stabilizer. Refer to the F70312 drawing and AMM 55-17-51 for complete usage instructions. The dimensions for F70312-49 are 1/2 x 3.2 x 3.4 inches.

**NOTE:**

F70312-52 supersedes F70312-42.

F70312-25 replaces Boeing ST2590-245 or Snap-On N-7575-6-48 for future procurement.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Crowfoot Wrenches Kit  
Figure 1**



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32074-1**

**NAME:** BREAKOUT BOX - RELAY SYSTEM, AIR/GROUND

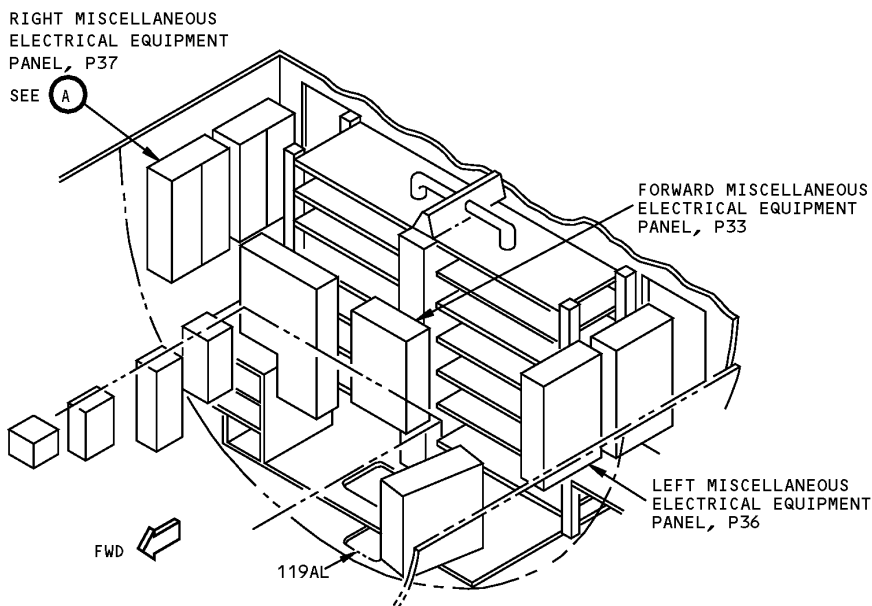
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32074-1 breakout box is used on all 767 airplanes. A32074 is used for continuity and voltage check of air/ ground relays in the P33 forward miscellaneous electrical equipment panel, the P36 left miscellaneous electrical equipment panel and the P37 right miscellaneous electrical equipment panel. Refer to AMM 32-09-02 for complete usage instructions. The breakout box TE65B40719 may be used as a substitute for A32074, if available. The A32074-1 consists of two test cables and a breakout box.

**WEIGHT:** 12 lbs (5 kg)

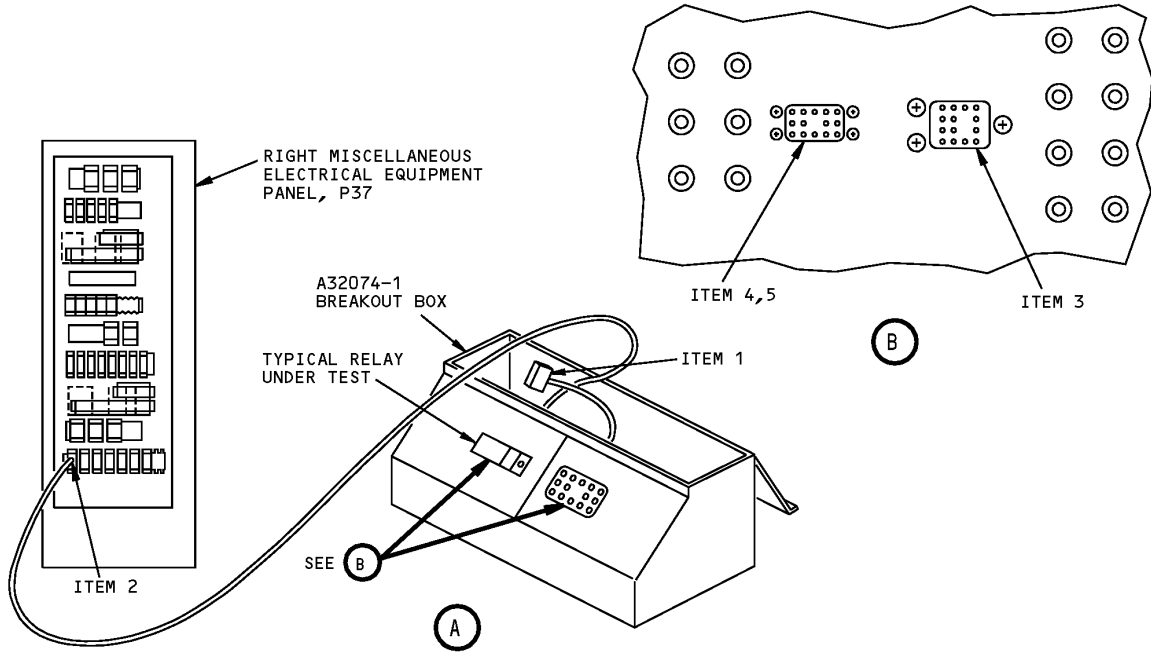
**DIMENSIONS:** 8 x 9 x 15 inches (203 x 229 x 381 mm)



MAIN EQUIPMENT CENTER

**Air/Ground Relay System Breakout Box  
Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Air/Ground Relay System Breakout Box  
Figure 1 (Sheet 2 of 2)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	001-5268-002	HEADER	
2	44B270106-3	HEADER	
3	102009-1	RELAY SOCKET	
4	451120-027	RELAY SOCKET (OPT: RSE120027)	
5	RSE120027	RELAY SOCKET	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32002-14**

**NAME:** SPRING EXTENDER - DRAG STRUT, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

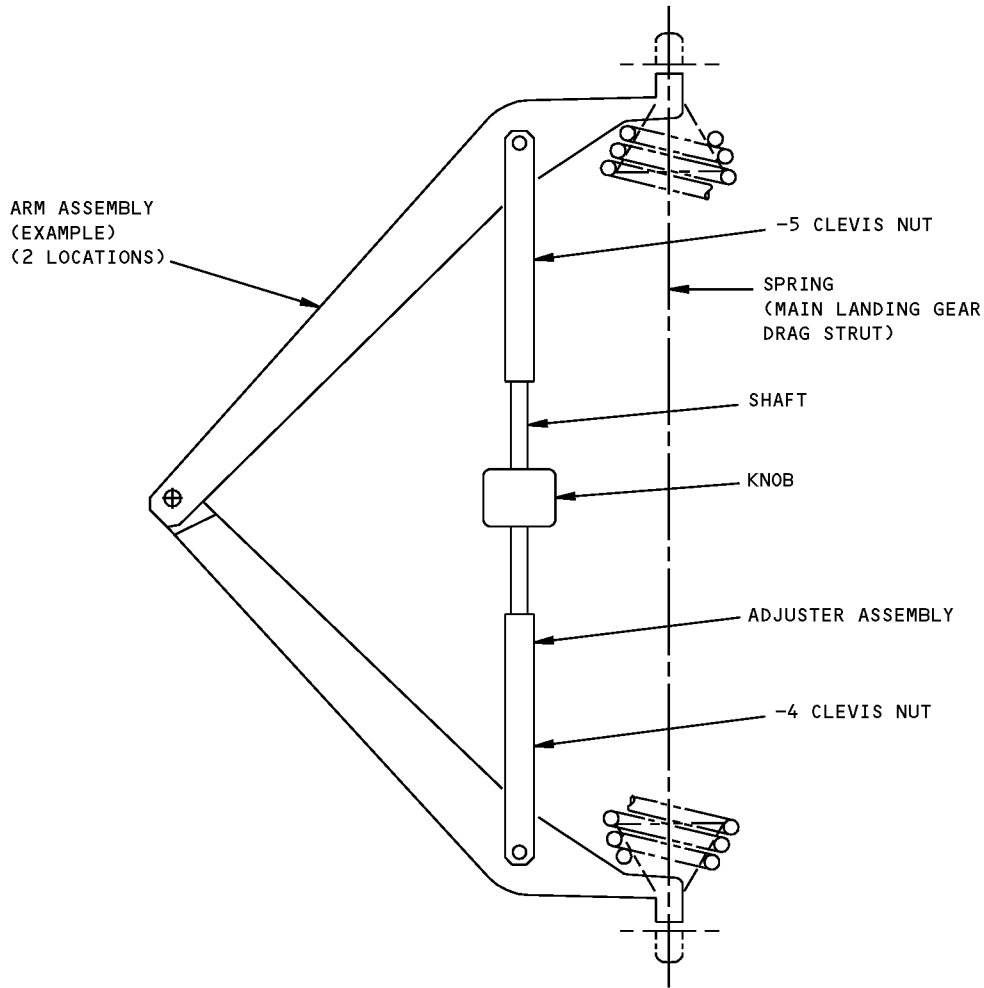
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32002-14 spring extender has limited use on 767-200 airplanes. A32004-14 may be used on 767 production block airplanes V0001-V0205, V1001-V1043 and V2001-V2052. A32002 regulates the length and tension of the main landing gear drag strut spring when it is held in the down position for removal and installation. Refer to AMM 32-32-05 and CMM 32-11-60 for complete usage instructions. A32002-14 consists of two A32002-2 extender assemblies contained in a storage box.

**WEIGHT:** 13 lbs (5.9 kg)

**DIMENSIONS:** 10 x 18 x 24 inches (254 x 457 x 610 mm)

**NOTE:** A32099 replaces A32002 for future procurement on 767 production block airplanes V0001-V0205, V1001-V1043 and V2001-V2052.  
A32099 supersedes A32002 on 767 production block airplanes V0206-V1000, V1044-V2000 and V2053-V5999.  
A32002-14 supersedes A32002-1.



**Main Landing Gear Drag Strut Spring Extender  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32033-17**

**NAME:** SLING - MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

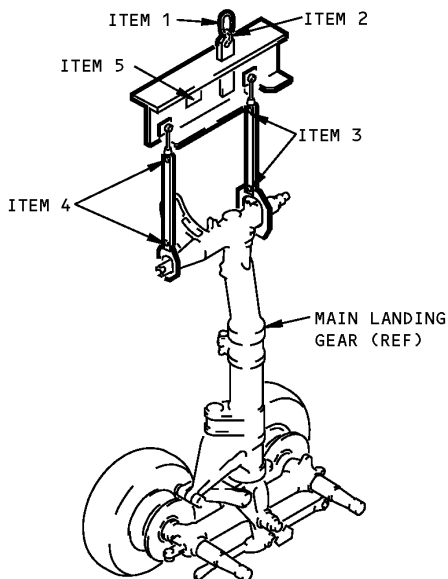
**USAGE & DESCRIPTION:** A32033-17 sling is used on 767-200 and -300 airplanes. A32033 is used to lift the main landing gear. A32033 is a basic beam structure with a sling link for mating to an overhead crane. Refer to AMM 32-11-02, AMM 32-11-24, CMM 32-11-19, CMM 32-11-20 and CMM 32-11-40 for complete usage instructions. A32033-17 consists of:

A32033-17		
QUANTITY	NOMENCLATURE	PART NUMBER
1	BEAM ASSEMBLY	A32033-2
1	LINK ASSEMBLY	A32033-10
2	BALLAST	A32033-15
1	LINK ASSEMBLY	A32033-18
1	SUPPORT ASSEMBLY	A32033-20
1	SUPPORT ASSEMBLY	A32033-21
VARIOUS	CONNECTING HARDWARE	

**WEIGHT:** 127 lbs (58 kg)

**DIMENSIONS:** 3 x 14 x 52 inches (76 x 356 x 1321 mm)

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Sling**  
**Figure 1**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	G341-7/8	SLING LINK	V75535
2	G209-7/8	SHACKLE	V75535
3	MS20392-11C45	PIN	
4	MS20392-7C35	PIN	
5	F70308-15	PROOF LOAD TAG	

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32003-1**

**NAME:** SPRING COMPRESSOR - SIDE STRUT, MAIN LANDING GEAR (MLG)

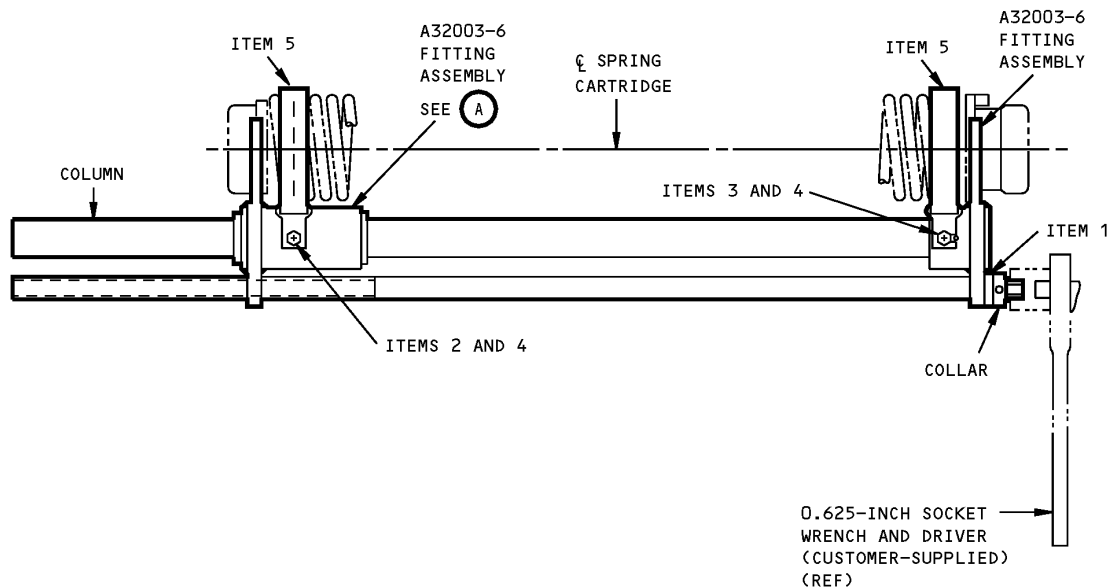
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** A32003-1 is applicable to all 767 airplanes. A32003-1 compresses the down lock spring during installation and removal of the main landing gear side strut. The spring is compressed and held in the gear down position. A customer-furnished 5/8-inch socket and wrench is also required. Refer to AMM 32-32-03, CMM 32-11-70 and CMM 32-32-30 for complete usage instructions. The A32003-1 consists of a -2 compressor assembly and is contained in a storage box.

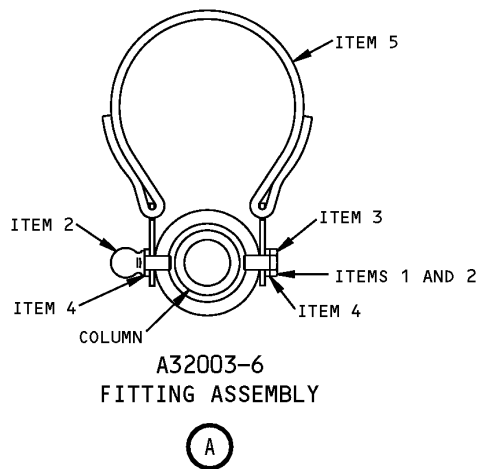
**WEIGHT:** 17 lbs (8 kg)

**DIMENSIONS:** 10 x 14 x 38 inches (254 x 356 x 965 mm)



**Main Landing Gear Side Strut Spring Compressor  
Figure 1 (Sheet 1 of 2)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Side Strut Spring Compressor**  
**Figure 1 (Sheet 2 of 2)**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	69221TB-1216	THRUST BEARING	V71041
2	NAS1300-4T8	THUMBSCREW	
3	NAS1304-1	BOLT	
4	AN960-416	WASHER	
5	A32003-7	STRAP ASSEMBLY	





767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32054-1**

**NAME:** PIN - ALIGNMENT, TRUCK AXLE BEAM, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

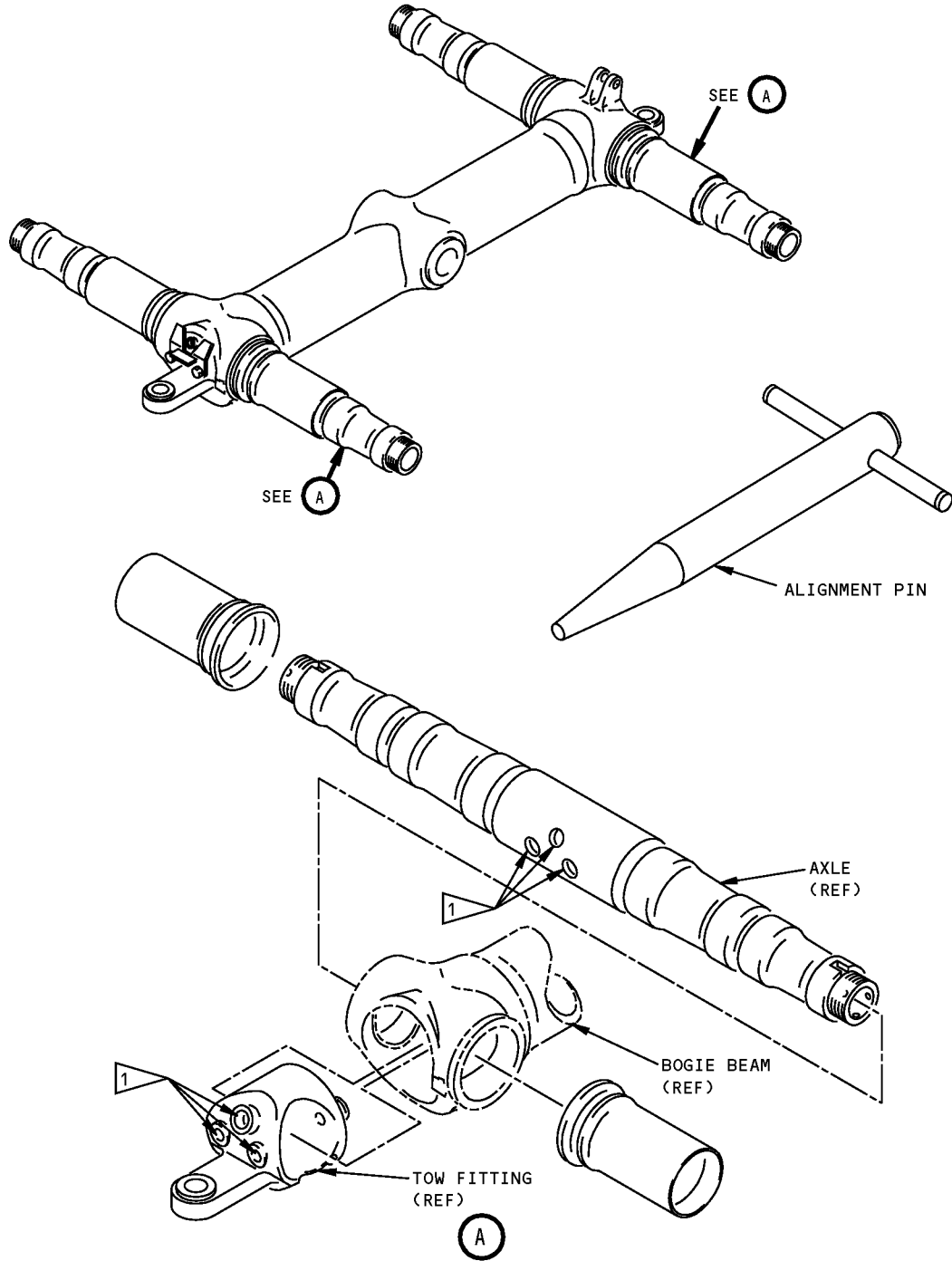
**USAGE & DESCRIPTION:** The A32054-1 pin is used on 767-200 and -300 airplanes. A32054 is used during assembly to align the holes in the tow fitting with holes in the axle and bogie beam. Refer to CMM 32-11-50 for complete usage instructions. A32054-1 consists of:

<b>A32054-1</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	PIN	A32054-2
1	HANDLE	A32054-3

**WEIGHT:** 1 lb (0.5 kg)

**DIMENSIONS:** 1 x 4 x 8 inches (25 x 102 x 203 mm)

**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**1** TOW FITTING HOLES ALIGN WITH AXLE HOLES DURING ASSEMBLY USING A 32054-1 ALIGNMENT PIN

**Main Landing Gear Truck Axle Beam Alignment Pin  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32005-54**

**NAME:** REPLACEMENT EQUIPMENT - SEAL, LOWER BEARING, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32005-54 replacement equipment is used on all 767 airplanes except 767-400ER. A32005 is used to remove and install the main landing gear lower bearing, seal retainer and seals. Refer to AMM 32-11-17, AMM 32-11-24, AMM 32-11-25, CMM 32-11-40 and current 32005 drawing for additional usage instructions. A32005-54 consists of:

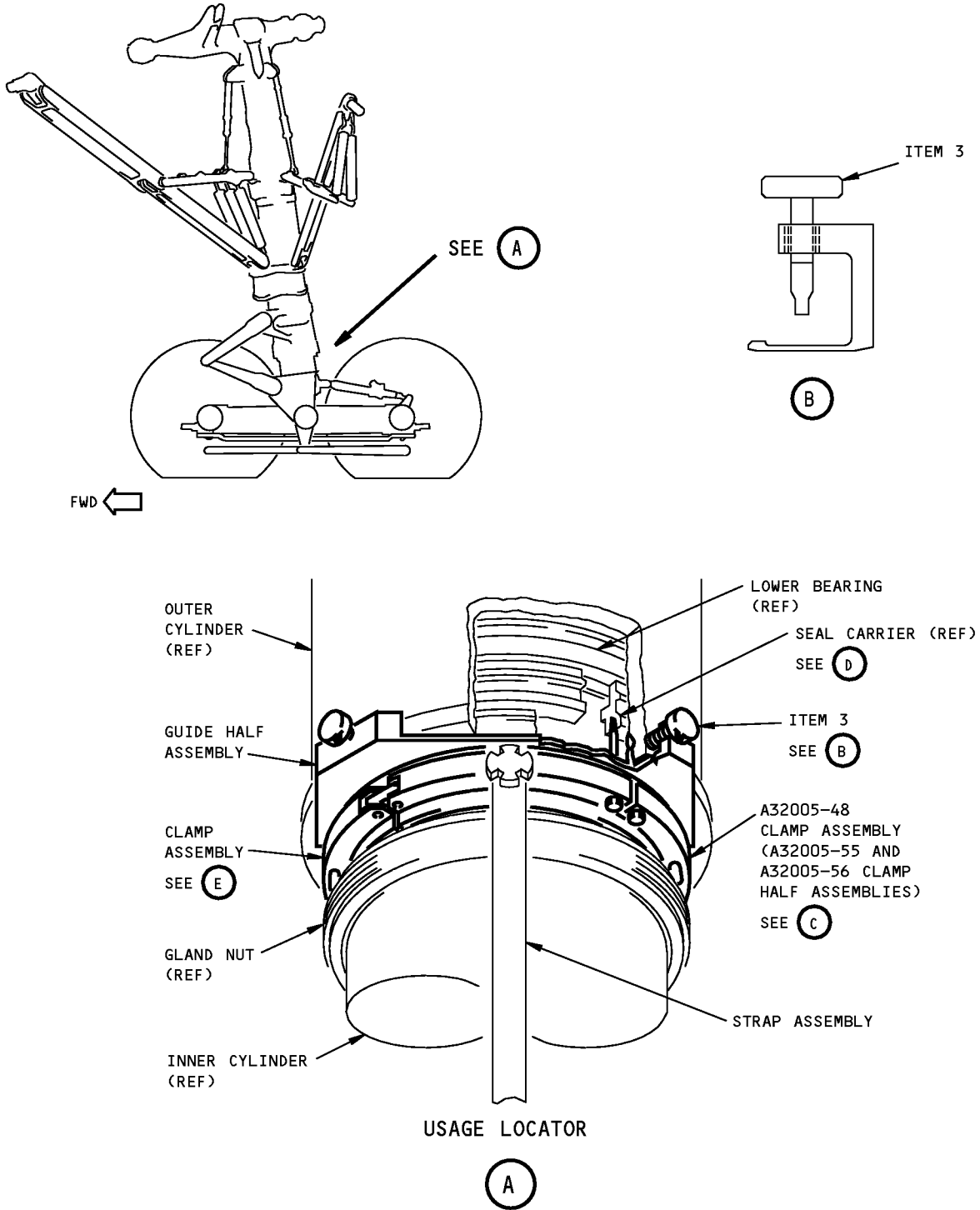
A32005-54		
QUANTITY	NOMENCLATURE	PART NUMBER
1	RAM CLAMP ASSEMBLY	A32005-12
2	SLIDE HAMMER ASSEMBLY	A32005-13
1	CLAMP ASSEMBLY	A32005-29
1	PROTECTIVE COVER	A32005-38
2	GUIDE HALF ASSEMBLY	A32005-39
2	STRAP ASSEMBLY	A32005-45
4	HAND KNOB ASSEMBLY	A32005-47
1	CLAMP ASSEMBLY	A32005-48
1	STORAGE BOX	

**WEIGHT:** 25 lbs (11 kg)

**DIMENSIONS:** 13 x 18 x 25 inches (330 x 457 x 635 mm)

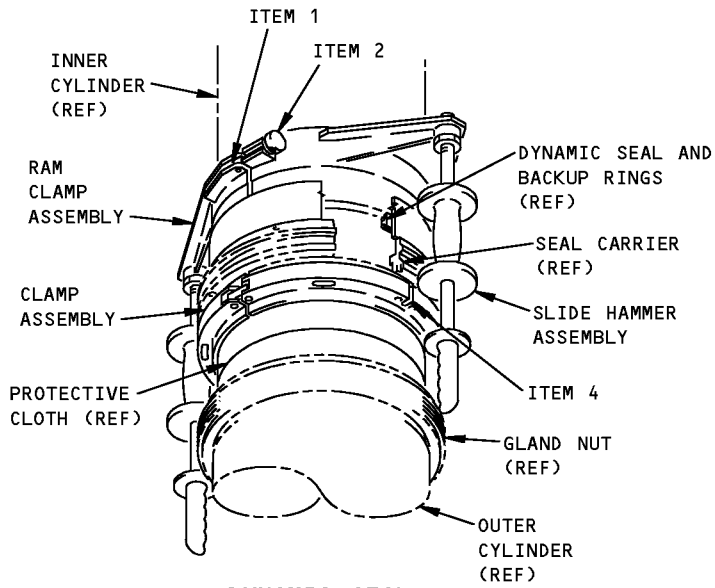
**NOTE:** A32005-54 supersedes A32005-43.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



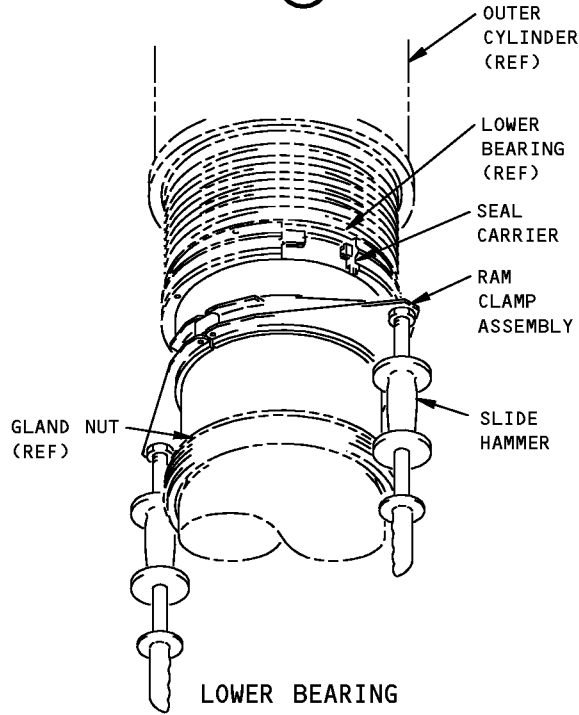
**Main Landing Gear Lower Bearing Seal Replacement Equipment  
Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



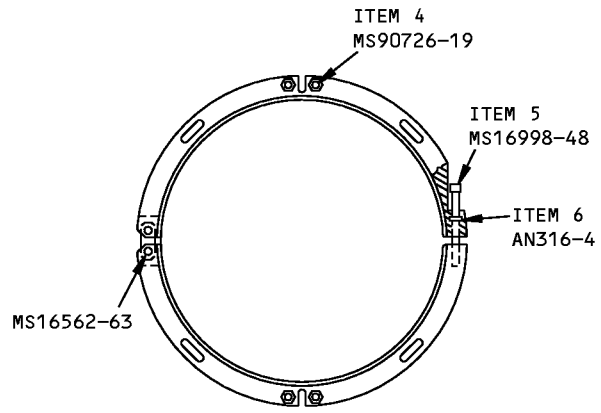
**DYNAMIC SEAL  
INSTALLATION**

(C)



**LOWER BEARING  
INSTALLATION**

(D)



**A32005-48 CLAMP ASSEMBLY**

(E)

**Main Landing Gear Lower Bearing Seal Replacement Equipment  
Figure 1 (Sheet 2 of 2)**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	21101	SWING BOLT	V96027
2	17501	HAND KNOB	V96027
3	CL-2-SHS-N	THUMB SCREW	V99862
4	MS90726-19	BOLT	
5	MS16998-48	BOLT	
6	AN316-4	NUT	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32006-75, -77**

**NAME:** SLING EQUIPMENT - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32006-75 or -77 sling equipment is used on 767-200 and -300 airplanes. A32006 is used to remove and install the retract actuator. Refer to AMM 32-11-01 and AMM 32-32-01 for complete usage instructions. A32006-77 has replaced A32006-75. A32006-77 consists of:

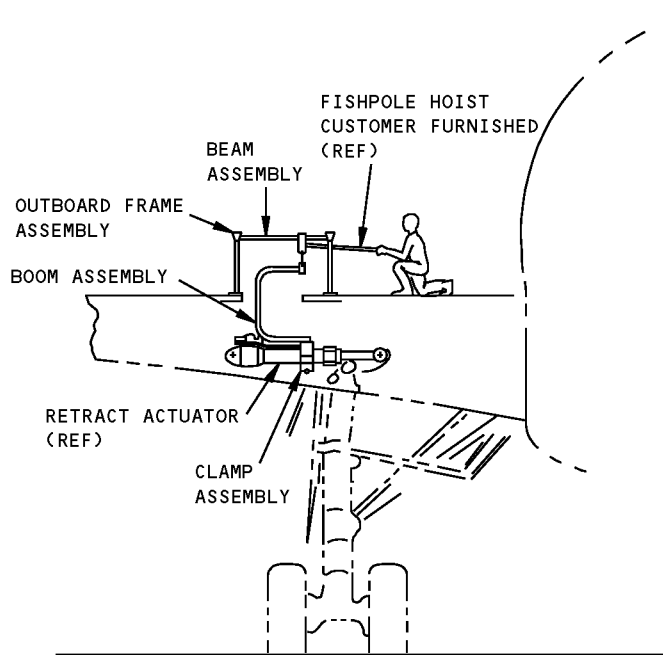
A32006-77		
QUANTITY	NOMENCLATURE	PART NUMBER
1	CLAMP ASSEMBLY	A32006-78
1	BOOM ASSEMBLY	A32006-54
1	BEAM ASSEMBLY	A32006-4
1	OUTBOARD FRAME ASSEMBLY	A32006-5
1	INBOARD FRAME ASSEMBLY	A32006-6
1	STORAGE BOX	

**WEIGHT:** 50 lbs (23 kg)

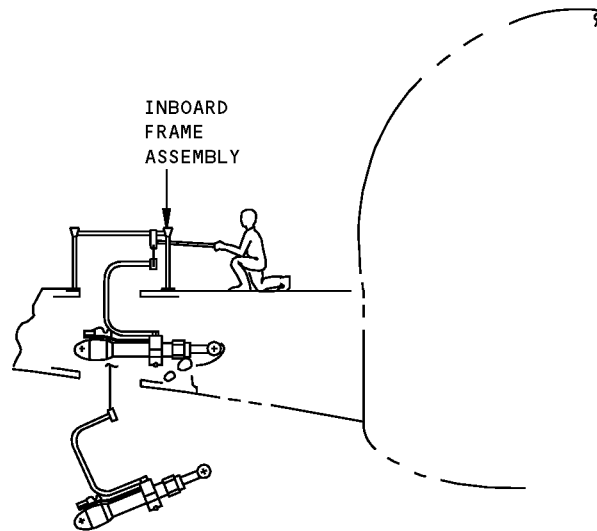
**DIMENSIONS:** 20 x 38 x 50 inches (508 x 965 x 1270 mm)

**NOTE:** A32006-77 replaces A32006-75 for future procurement.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**SLING EQUIPMENT  
INSTALLATION**

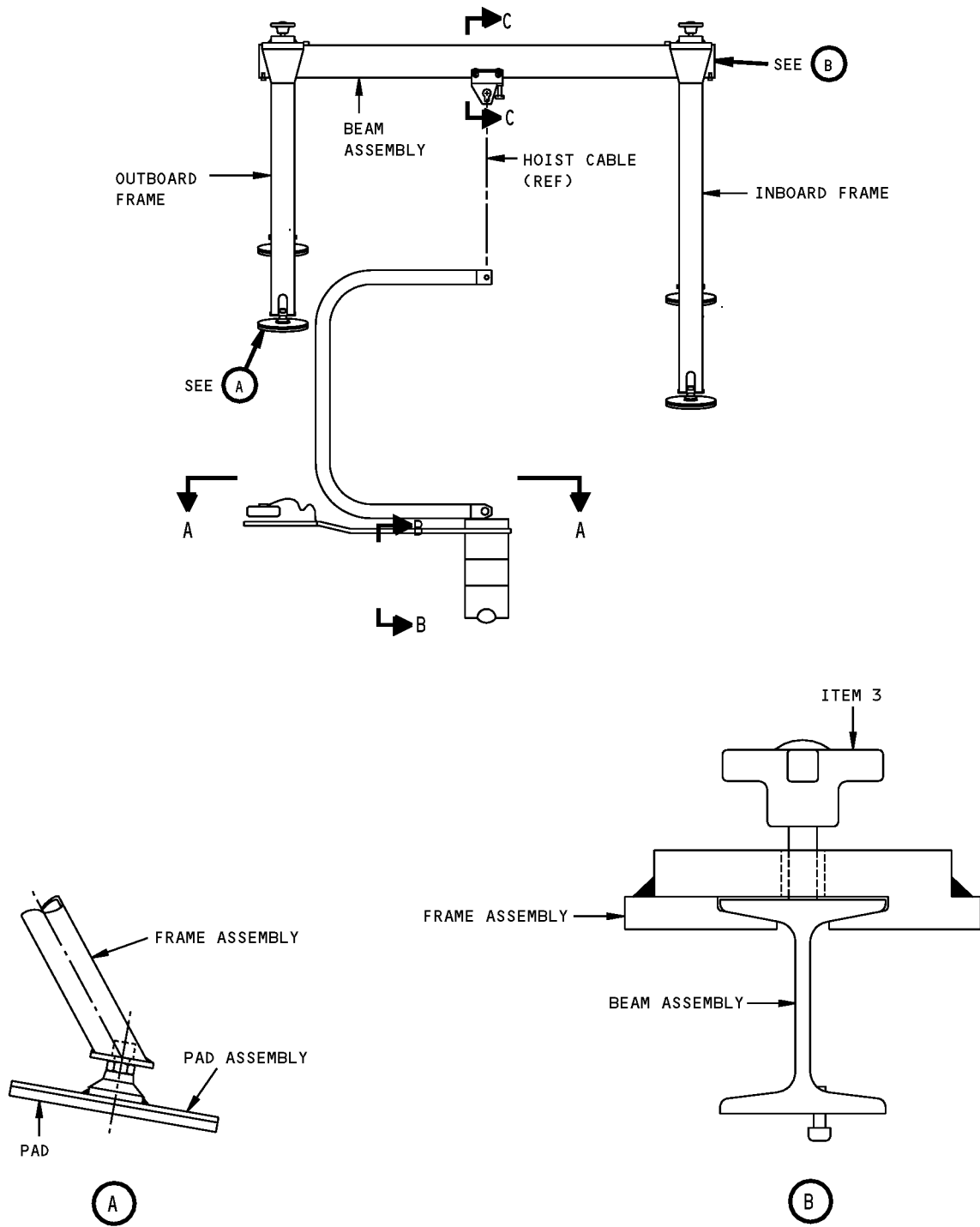


**ACTUATOR  
TRANSLATION**

**Main Landing Gear Retract Actuator Sling Equipment  
Figure 1 (Sheet 1 of 4)**

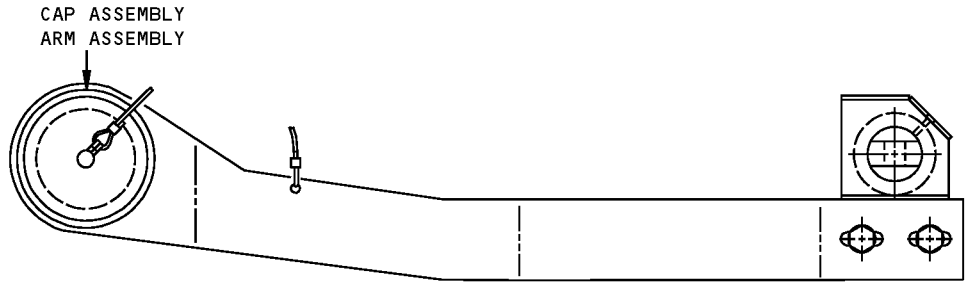


**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

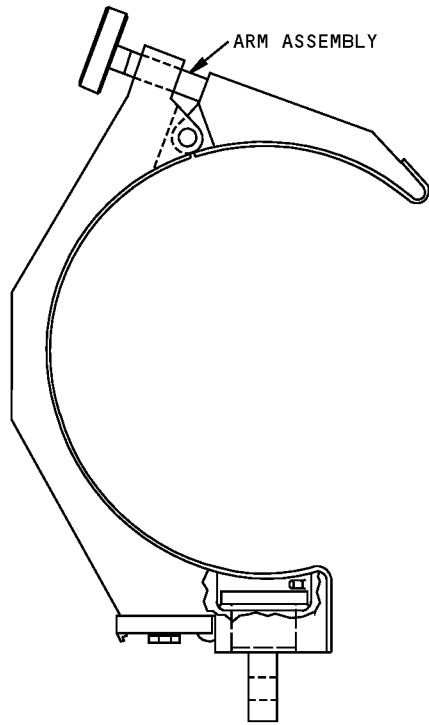


**Main Landing Gear Retract Actuator Sling Equipment  
Figure 1 (Sheet 2 of 4)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



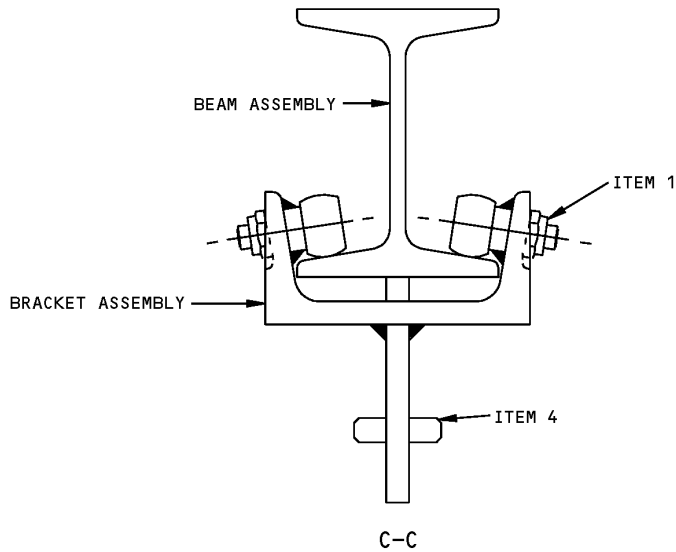
A-A



B-B

**Main Landing Gear Retract Actuator Sling Equipment  
Figure 1 (Sheet 3 of 4)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Retract Actuator Sling Equipment**  
**Figure 1 (Sheet 4 of 4)**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	NAS679A4W	LOCKNUT	
2	F70308-15	PROOF LOAD TAG	
3	A32006-45	HAND KNOB	V99862
4	A32006-44	SWIVEL HEAD SCREW	V99862



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32007-17**

**NAME:** PROTECTOR EQUIPMENT - AXLE AND AXLE THREAD, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32007-17 protector equipment is used on all 767-200 and -300 airplanes with main gear axles that have not been overhauled (overhauled axles have undersized threads). A32007-17 protector equipment is used to protect the main landing gear axle and the external threads during wheel, brake and bearing maintenance. Refer to AMM 32-41-08, CMM 32-11-19 and CMM 32-11-20 for complete usage instructions. A32007-17 consists of:

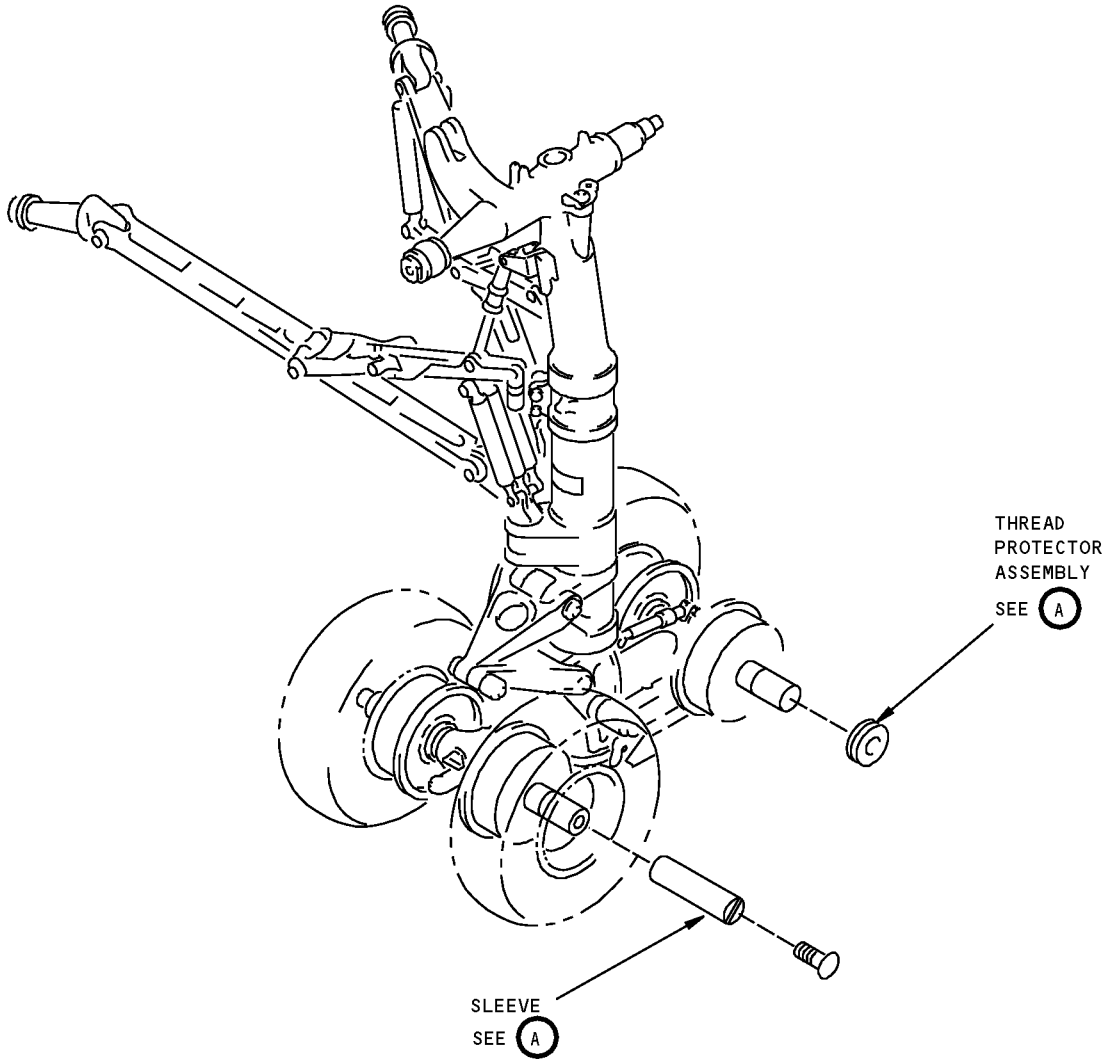
A32007-17		
QUANTITY	NOMENCLATURE	PART NUMBER
1	AXLE PROTECTOR ASSEMBLY	A32007-6
1	THREAD PROTECTOR ASSEMBLY	A32007-9
1	SHOULDER THUMB SCREW	A32007-18
1	SPACER REMOVER	A32007-15
1	STORAGE BOX	

**WEIGHT:** 9 lbs (4 kg)

**DIMENSIONS:** 6 x 9 x 14 inches (152 x 229 x 356 mm)

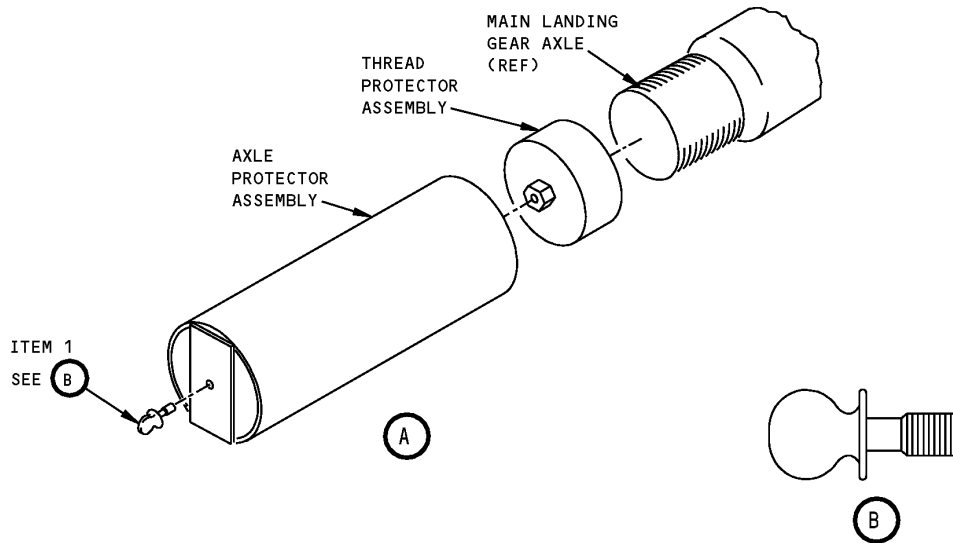
**NOTE:** A32098 replaces A32007 for future procurement.  
A32007-17 replaces A32007-16 for future procurement.

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Axle and Axle Thread Protector Equipment**  
**Figure 1 (Sheet 1 of 2)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Axle and Axle Thread Protector Equipment**  
**Figure 1 (Sheet 2 of 2)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32007-8	SHOULDER THUMBSCREW	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32010-1**

**NAME:** PIN PULLER - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

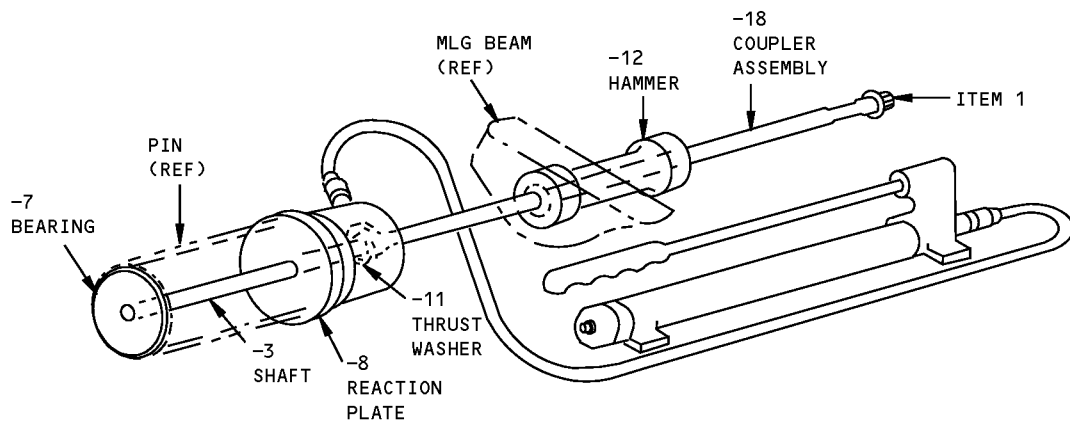
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32010-1 pin puller is used on 767-200 and -300 airplanes. A32010 is used to remove the outboard retaining pin of the main landing gear retract actuator. A32010 provides a primary impact method and a secondary hydraulic method. Refer to AMM 32-32-01 and the current A32010 drawing for complete usage instructions. A32010-1 consists of:

A32010-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SHAFT ASSEMBLY	A32010-2
1	SHAFT	A32010-3
1	BEARING	A32010-6
1	BEARING	A32010-7
1	REACTION PLATE	A32010-8
1	DISC	A32010-9
1	THRUST WASHER	A32010-11
1	HAMMER	A32010-12
1	COUPLER ASSEMBLY	A32010-18
1	NUT	NAS1805-8
1	HOSE	H-864
1	PUMP	P-14
1	HYDRAULIC CYLINDER	RCH-120
1	STORAGE BOX	

**WEIGHT:** 15 lbs (7 kg)

**DIMENSIONS:** 8 x 10 x 34 inches (203 x 254 x 864 mm)

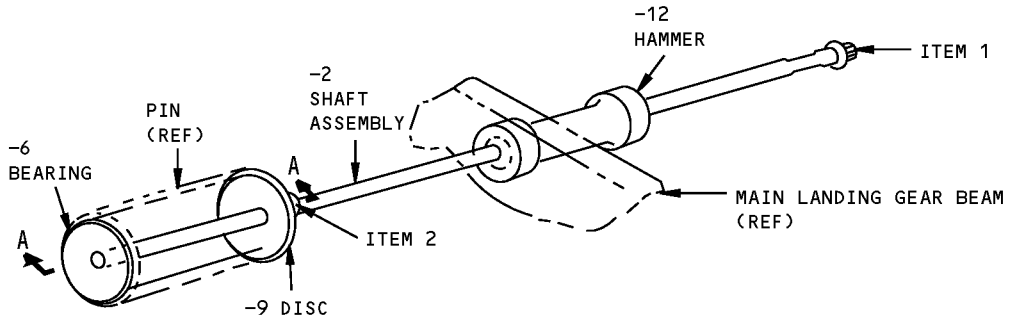


**SECONDARY HYDRAULIC METHOD**

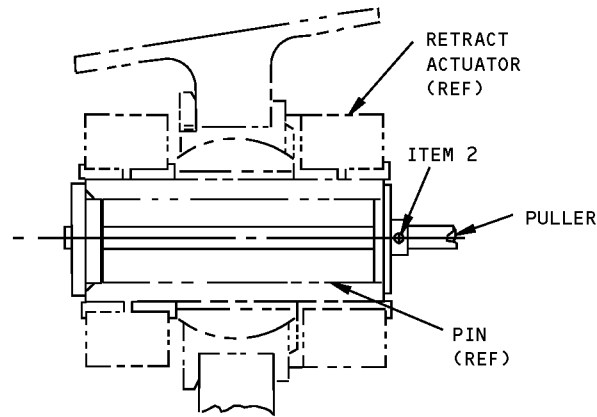
**Main Landing Gear Retract Actuator Pin Puller  
Figure 1 (Sheet 1 of 3)**



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



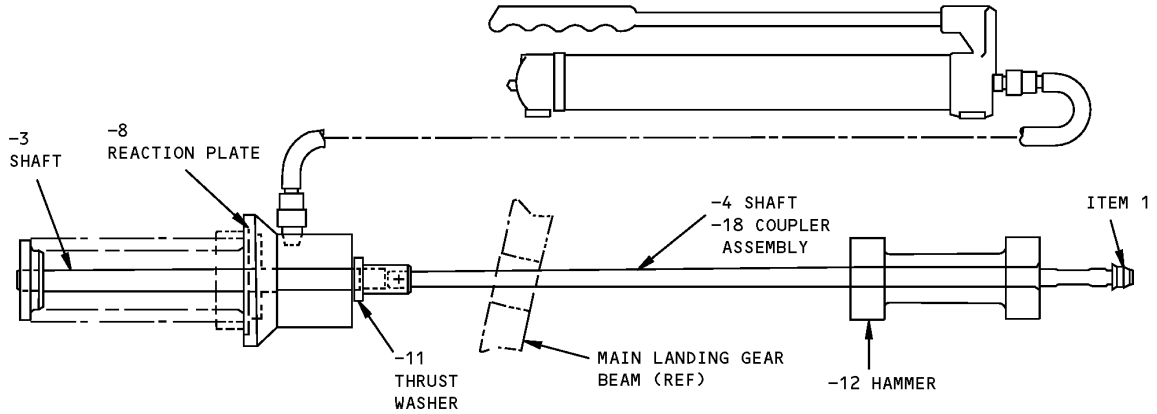
**PRIMARY IMPACT METHOD**



**A-A  
SHOWING IMPACT METHOD ONLY**

**Main Landing Gear Retract Actuator Pin Puller  
Figure 1 (Sheet 2 of 3)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



PIN REMOVAL USING HYDRAULIC  
POWER AND IMPACT

Main Landing Gear Retract Actuator Pin Puller  
Figure 1 (Sheet 3 of 3)

Repairable/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1805-8	NUT	
2	A32010-15	SET SCREW	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER:** A32012-6, -9, -12, -13

**NAME:** WRENCH - WHEEL RETAINING NUT, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32012-6, -9, -12, or -13 wrench is used on the 767-200, -200ER, -300, -300ER and -300F airplanes. A32012 is used to remove or tighten the main wheel retaining nuts. Refer to AMM 32-45-01, CMM 32-11-19 and CMM 32-11-20 for complete usage instructions. The A32010-6, -9, -12 and -13 consist of:

A32012-6		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SOCKET	A32012-7
1	BAR	A32012-8

A32012-9		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SOCKET	A32012-10
1	BAR	A32012-11

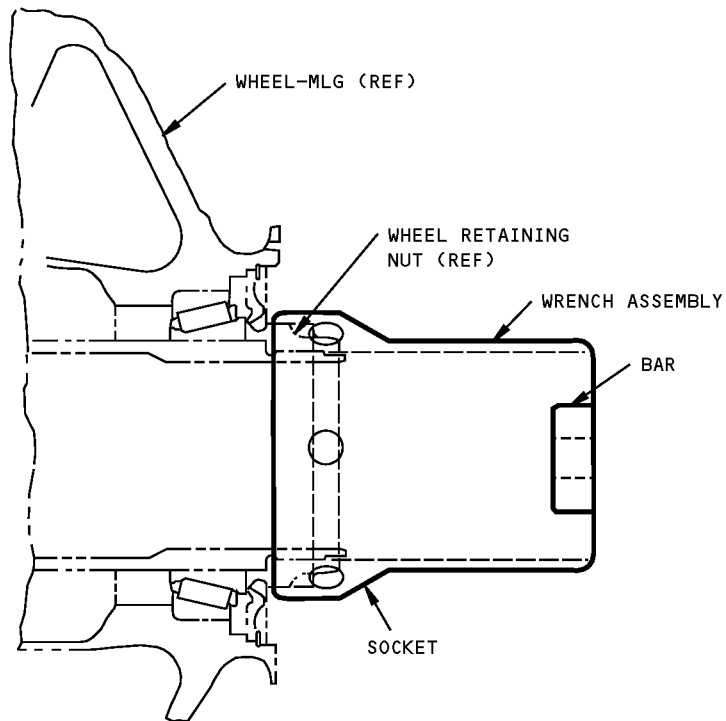
A32012-12		
QUANTITY	NOMENCLATURE	PART NUMBER
1	WRENCH	A32012-12

A32012-13		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SOCKET	A32012-7
1	BAR	A32012-14

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

**DIMENSIONS:** 6 dia x 6 inches (152 dia x 152 mm)

**NOTE:** A32012-13 replaces A32012-6, -9, and A32012-12 for future procurement. A32012-6, -9 and -12 supersede A32012-1.



**Main Landing Gear Wheel Retaining Nut Wrench  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32015-9**

**NAME:** INSTALLATION/REMOVAL TOOL - DOWNLOCK, MAIN LANDING GEAR (MLG) AND NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32015-9 installation/removal tool is used on all 767 airplanes. A32015 is a hand-held extension device used to remove and install the downlock pins in the main and nose landing gear side strut assemblies. Refer to AMM 32-00-20 for complete usage instructions. A32015-9 consists of:

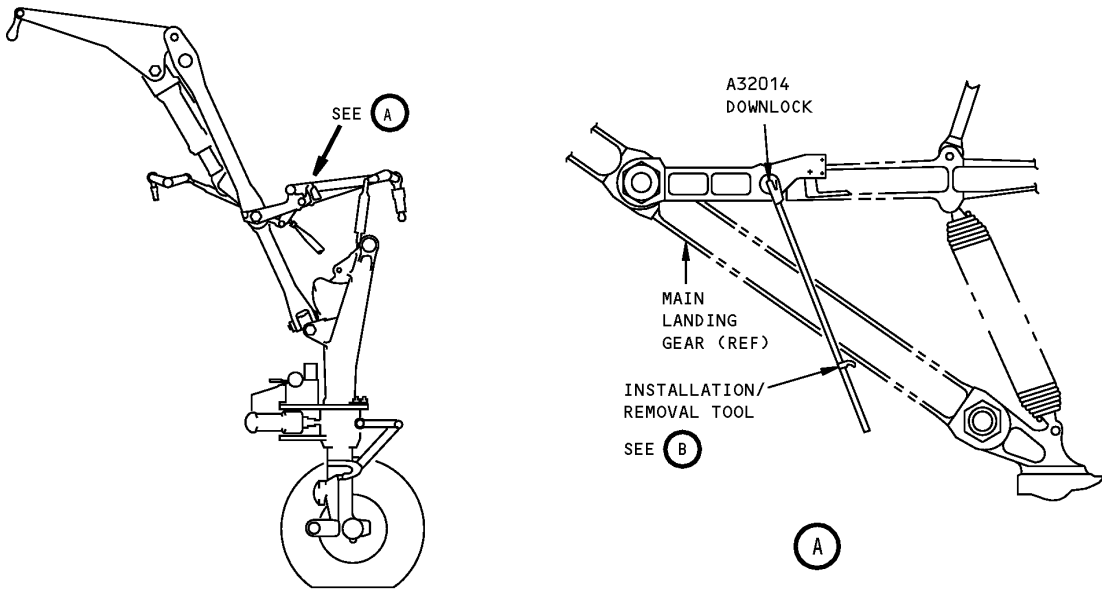
A32015-9		
QUANTITY	NOMENCLATURE	PART NUMBER
1	EXTENSION ASSEMBLY	A32015-2
1	LEVER	A32015-3
1	LINK	A32015-4
1	TRIGGER	A32015-5
1	PIN-SPRING	MS16562-240
3	PIN-SPRING	MS16562-221
2	SPACER	NAS43HT3-23
2	SPRING PLUNGER	CL-11-SPS-1

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

**DIMENSIONS:** 2 x 2 x 45 inches (51 x 51 x 1143 mm)

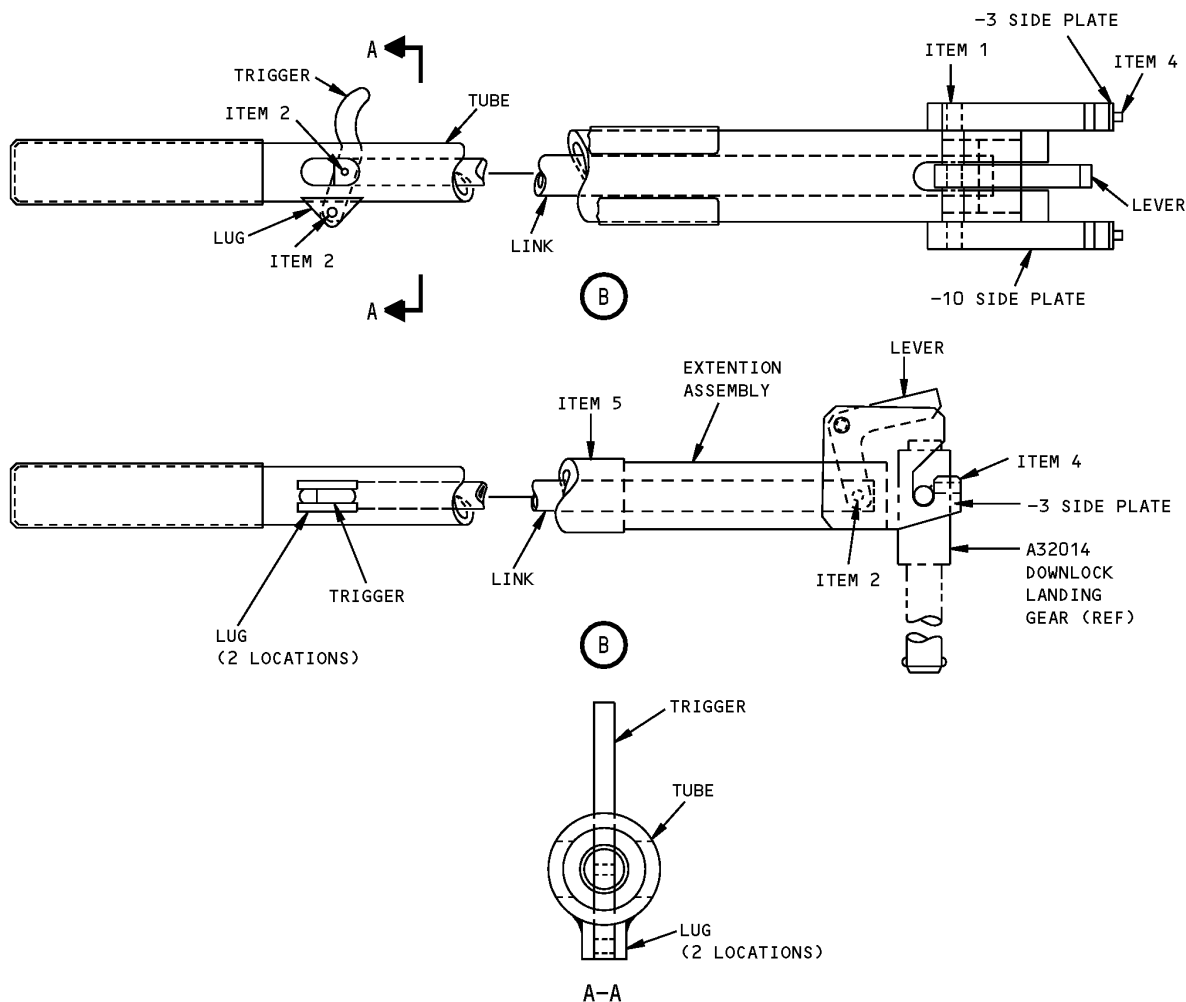
**NOTE:** A32015-9 supersedes A32015-1.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear and Nose Landing Gear Downlock Installation/Removal Tool  
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Main Landing Gear and Nose Landing Gear Downlock Installation/Removal Tool  
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS16562-240	SPRING PIN	
2	MS16562-221	SPRING PIN	
3	NAS43HT3-23	SPACER	
4	CL-11-SPS-1	SPRING PLUNGER	V99862
5	F70308-16	IDENTIFICATION TAG	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32008-51, -53**

**NAME:** SLING EQUIPMENT - MAIN LANDING GEAR (MLG) COMPONENTS

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32008-51 or -53 sling equipment is used on all 767 airplanes. A32008-51 is used on only 767 airplanes. A32008-53 is used on both 757 and 767 airplanes. A32008 is used with the A20001 boom hoist for removal or installation of the main landing gear drag strut and side strut. Refer to AMM 32-11-03, AMM 32-11-04, AMM 32-11-05, AMM 32-11-10, AMM 32-11-11, AMM 32-11-12 and AMM 32-11-13 for complete usage instructions.

A32008-51		
QUANTITY	NOMENCLATURE	PART NUMBER
1	BEAM ASSEMBLY	A32008-2
1	END ASSEMBLY	A32008-3
1	END ASSEMBLY	A32008-4
1	CLAMP ASSEMBLY	A32008-5
1	ADAPTER ASSEMBLY	A32008-50
1	STORAGE BOX	

A32008-53		
QUANTITY	NOMENCLATURE	PART NUMBER
1	BEAM ASSEMBLY	A32008-2
1	BEAM ASSEMBLY	A32008-58
1	END ASSEMBLY	A32008-3
1	END ASSEMBLY	A32008-4
1	END ASSEMBLY	A32008-54
1	CLAMP ASSEMBLY	A32008-5
1	CLAMP ASSEMBLY	A32008-38
1	ADAPTER ASSEMBLY	A32008-50
1	STORAGE BOX	

**WEIGHT:** A32008-51 - 30 lbs (14 kg)  
A32008-53 - 35 lbs (16 kg)

**DIMENSIONS:** 6 x 16 x 47 inches (152 x 406 x 1194 mm)





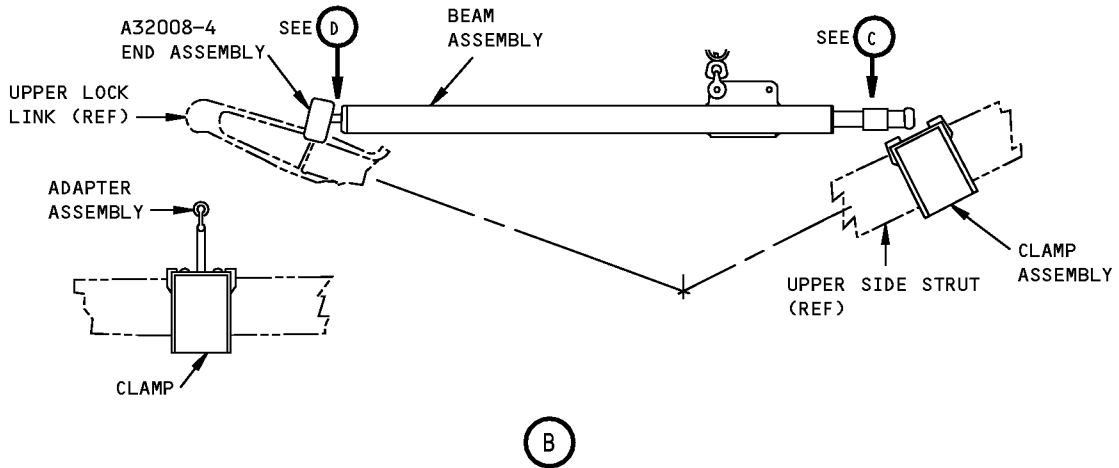
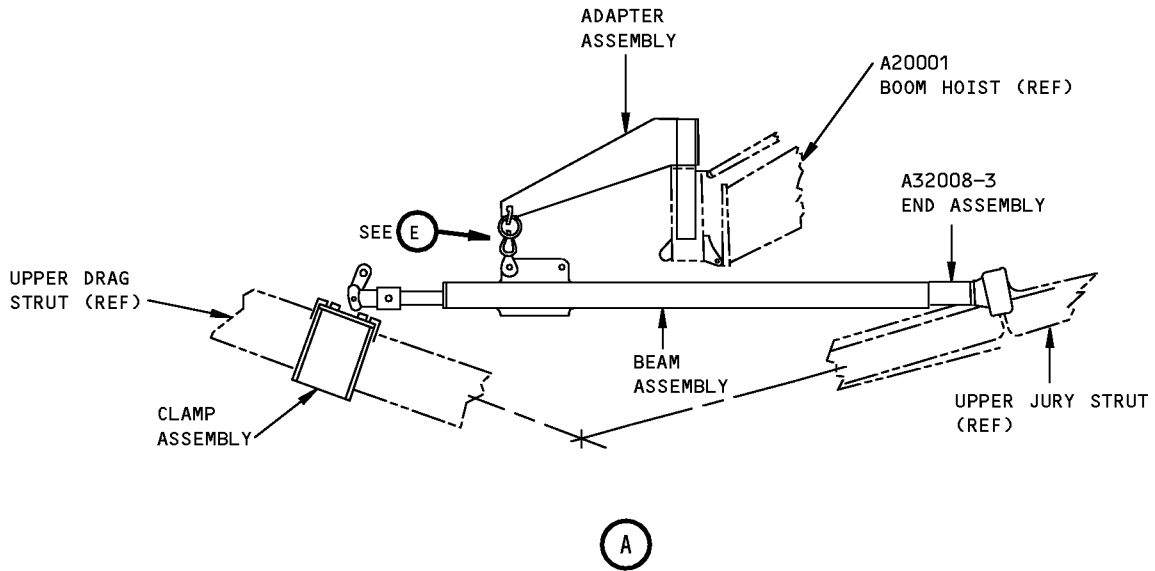
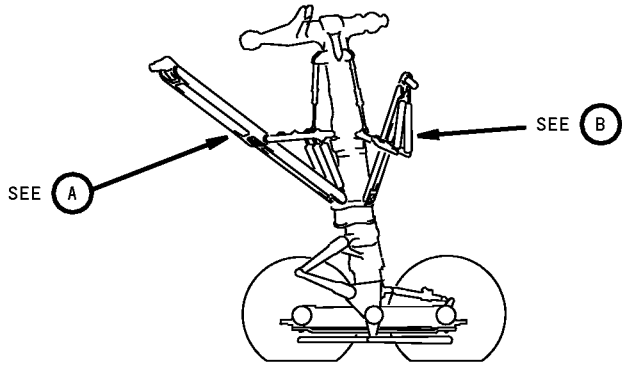
**767**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**NOTE:**

A32008-51 replaces A32008-1.  
A32008-53 supersedes A32008-44.

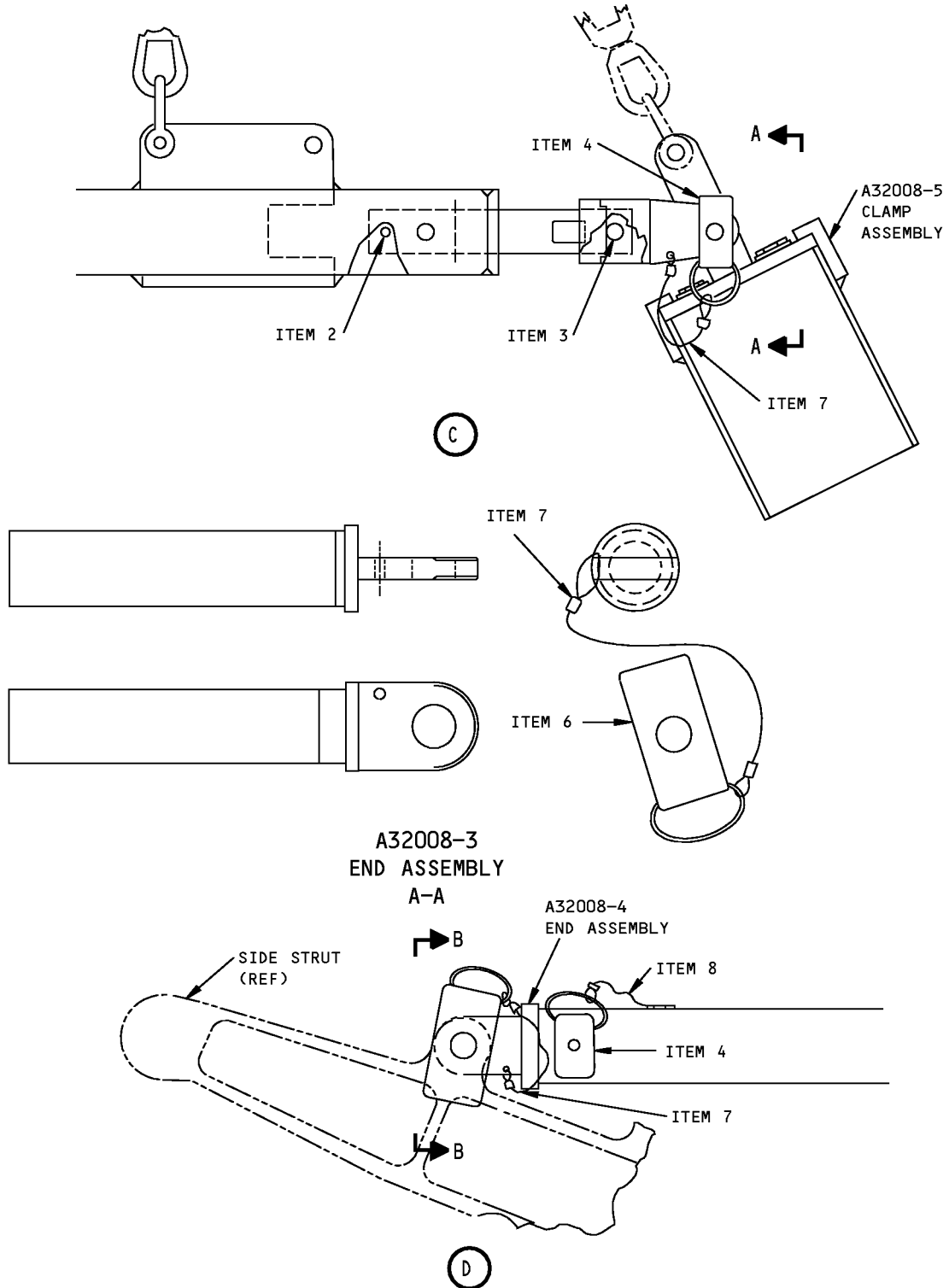
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



W33049 S0000193318\_V2

**A32008 locator & usage.  
Figure 1 (Sheet 1 of 3)**

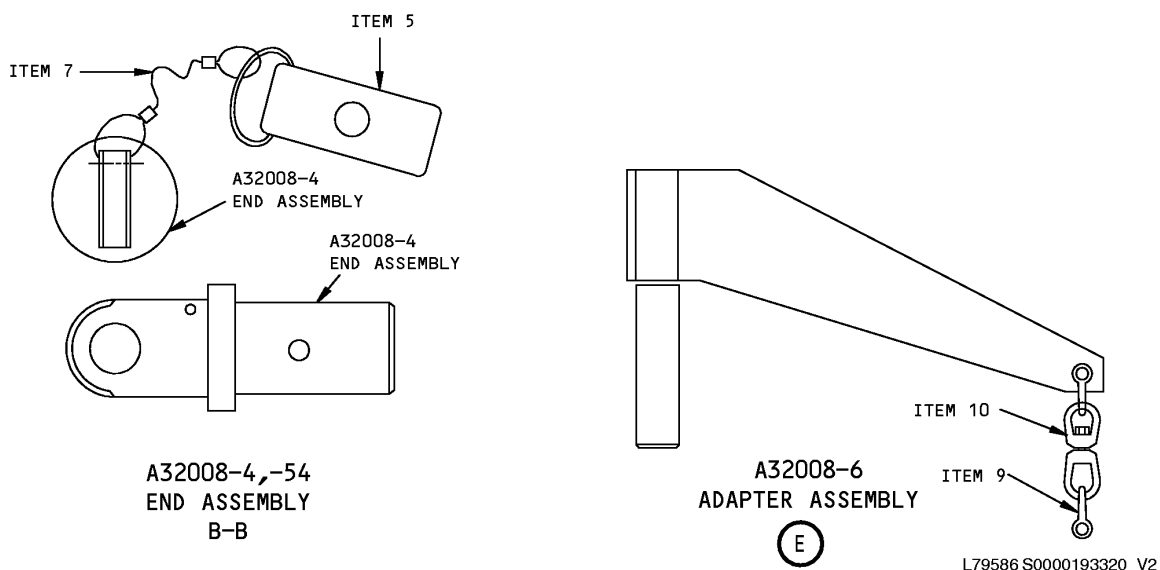
**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



L79585 S0000193319\_V2

**A32008 locator & usage.  
Figure 1 (Sheet 2 of 3)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



A32008 locator & usage.  
Figure 1 (Sheet 3 of 3)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	F70308-2	PROOF LOAD TAG	
2	MS16562-39	SPRING PIN	
3	MS16562-71	SPRING PIN	
4	NAS1334C2C20D	BALL LOCKPIN	
5	NAS1341C2C21D	BALL LOCKPIN	
5	NAS1340C2C21	BALL LOCKPIN	
6	NAS1342C2C47D	BALL LOCKPIN	
7	CL-22-KA-12.0 LR	CABLE ASSEMBLY	V99862
8	CL-63-KA-10.0	CABLE ASSEMBLY	V99862
9	G209-1/4	SHACKLE	V75535
10	G402-1/4	SWIVEL	V75535



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32105-1**

**NAME:** SLING EQUIPMENT - DRAG AND SIDE STRUT REMOVAL/INSTALLATION, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

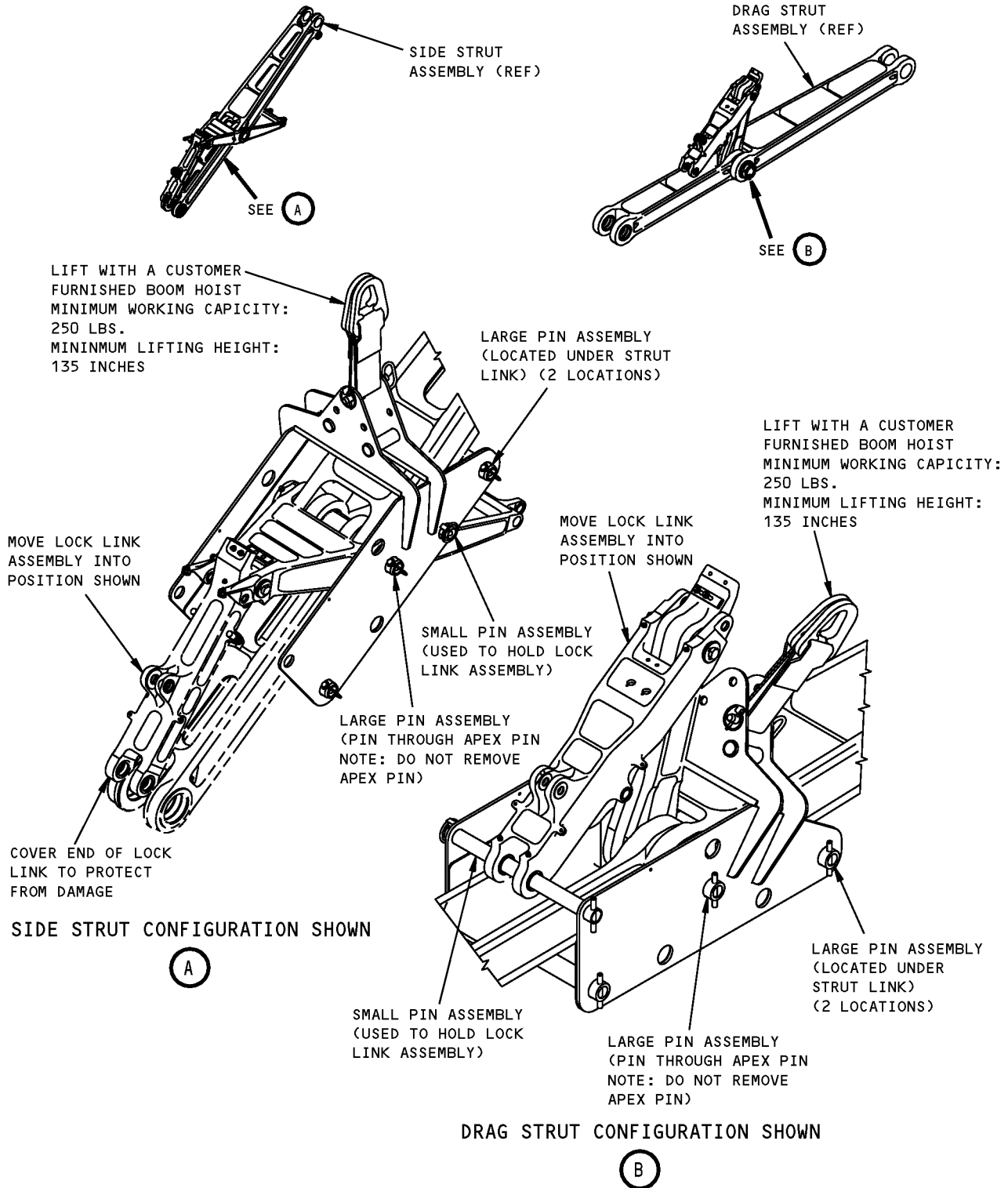
**USAGE & DESCRIPTION:** The A32105-1 sling equipment is used on 767-400 airplanes. A32105 is used for removal and installation of the main landing gear drag and side struts. Refer to AMM 32-11-03, AMM 32-11-04, AMM 32-11-05, AMM 32-11-10, AMM 32-11-11, AMM 32-11-12 and AMM 32-11-13 for complete usage instructions. A32105-1 consists of:

A32105-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SADDLE ASSEMBLY	A32105-2
1	UPPER DRAG STRUT BLOCK	A32105-12
1	LOWER DRAG STRUT BLOCK	A32105-13
1	UPPER SIDE STRUT BLOCK	A32105-14
1	LOWER SIDE STRUT BLOCK	A32105-15
1	DRAG STRUT THREAD PROTECTOR	A32105-16
1	SIDE STRUT THREAD PROTECTOR	A32105-17
4	UTILITY STRAP WITH HOOKS	751587
1	STORAGE BOX	

**WEIGHT:** 80 lbs (36 kg)

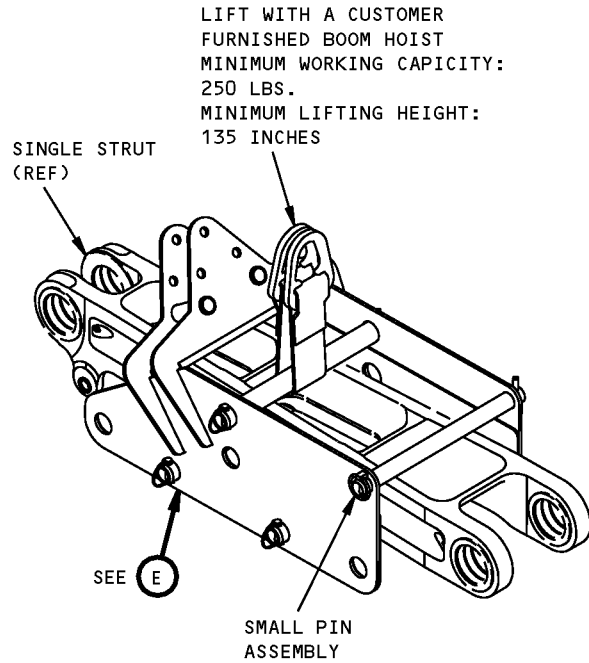
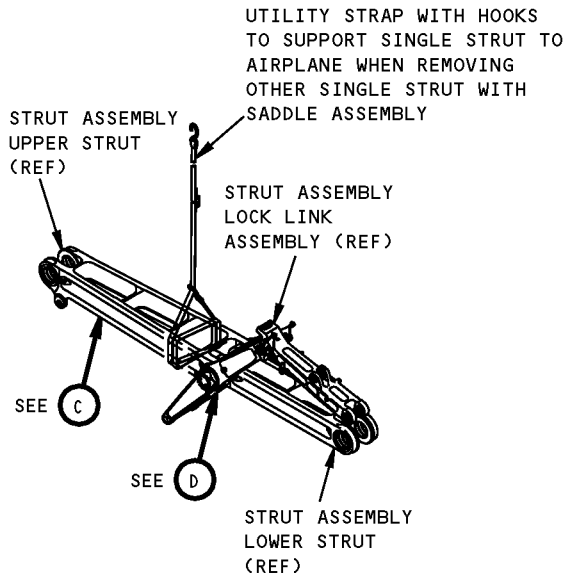
**DIMENSIONS:** 24 x 24 x 36 inches (610 x 610 x 914 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

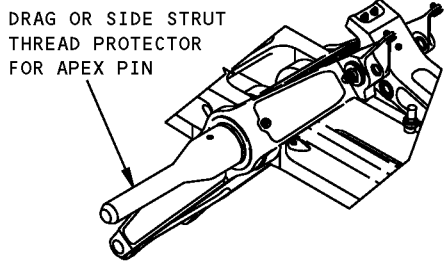


**MAIN LANDING GEAR DRAG AND SIDE STRUT REMOVAL/INSTALLATION SLING EQUIPMENT**  
**Figure 1 (Sheet 1 of 2)**

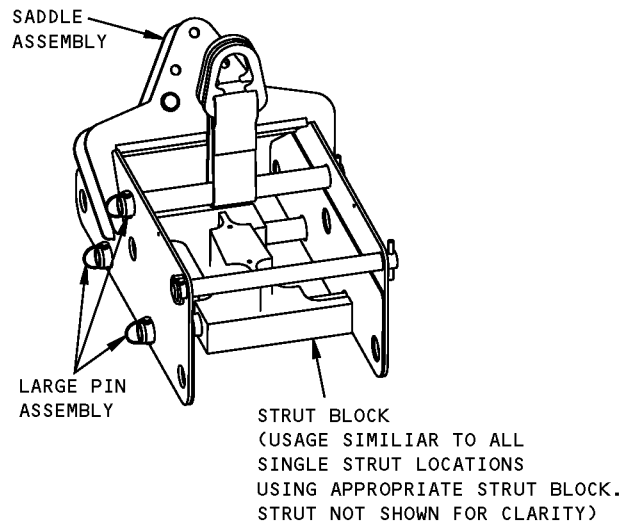
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



C



D



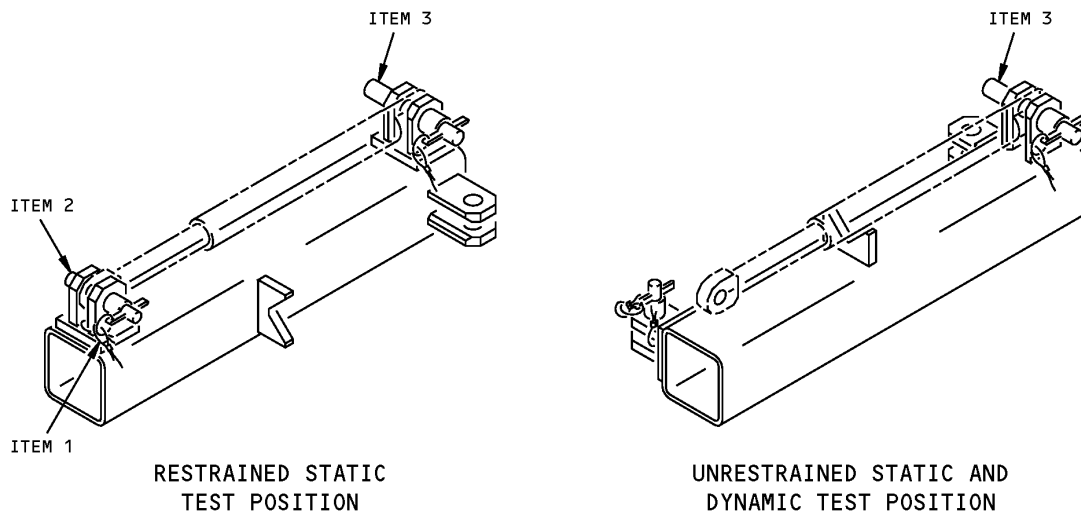
E

**MAIN LANDING GEAR DRAG AND SIDE STRUT REMOVAL/INSTALLATION SLING EQUIPMENT**  
Figure 1 (Sheet 2 of 2)

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32063-7**

- NAME:** TEST FIXTURE - SIDE AND DRAG BRACE LOCK ACTUATOR, MAIN LANDING GEAR (MLG)
- AIRPLANE MAINTENANCE:** NO
- COMPONENT MAINTENANCE:** YES
- USAGE & DESCRIPTION:** The A32063-7 test fixture is used on all 767-200 and -300 airplanes. A32063 is used to hold either the MLG side brace lock actuator or the MLG drag brace actuator in place while performing functional tests for force and displacement, and proof pressure tests. Refer to CMM 32-32-10 and CMM 32-32-25 for complete usage instructions. A32063-7 consists of one A32063-8 test fixture assembly contained in a storage box.
- WEIGHT:** 33 lbs (15 kg)
- DIMENSIONS:** 7 x 7 x 24 inches (178 x 178 x 610 mm)
- NOTE:** A32063-7 supersedes A32063-1.



**Main Landing Gear Side and Drag Brace Lock Actuator Test Fixture  
Figure 1**





767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	CL-22-KA-10.0LR	LANYARD	V99862
2	CL-12-BLPT-2.00	BALL LOCK PIN	V99862
3	CL-14-BLPT-3.00	BALL LOCK PIN	V99862



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32028-6**

**NAME:** RETENTION STRAP - INNER CYLINDER - MAIN LANDING GEAR (MLG) AND NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** YES

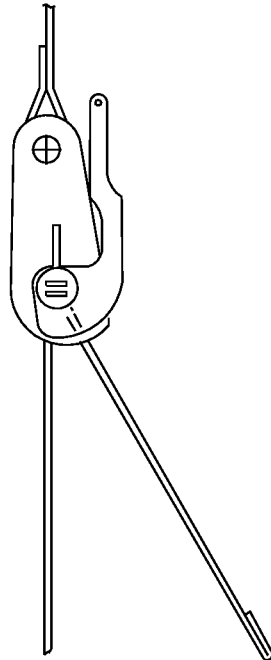
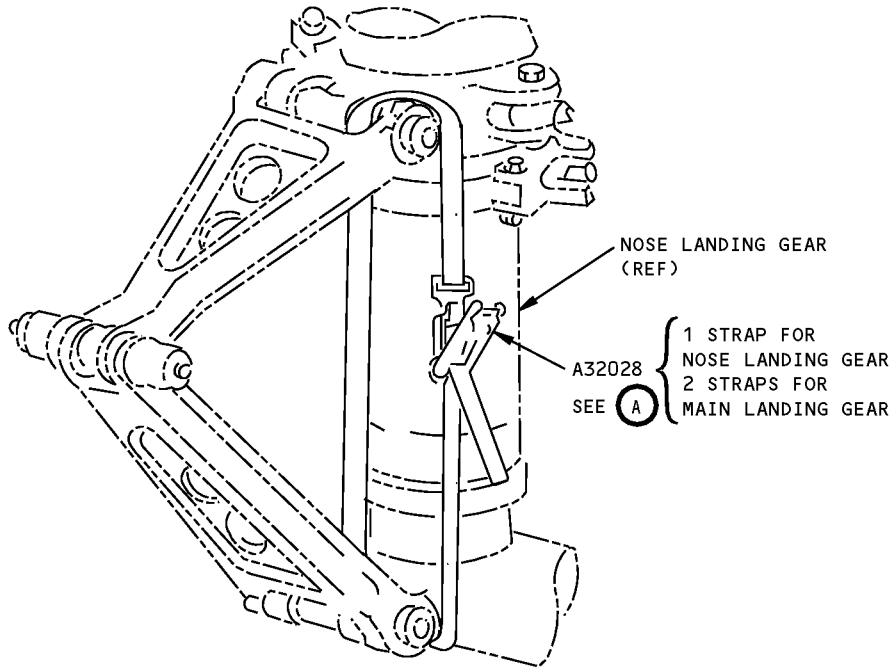
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32028-6 retention strap is used on 767-200 and -300 nose and main landing gear. The A32028-6 retention strap is also used on 767-400 nose landing gear. The A32114 truck position retainer is used to secure the inner cylinders for the 767-400 main landing gear. A32028 is used to secure the inner cylinders of the unpressurized MLG or NLG shock struts in a compressed position while hoisting or transporting the MLG and NLG. One A32028-6 retention strap is required for nose landing gear. Two A32028-6 retention straps are required for main landing gear. Refer to AMM 32-21-01, CMM 32-11-19, CMM 32-11-20 and CMM 32-11-21 for complete usage instructions. A32028-6 consists of a A32028-4 webbing and a A32028-5 buckle.

**WEIGHT:** 2 lbs (0.9 kg)

**DIMENSIONS:** 2 x 5 x 10 inches (51 x 127 x 254 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



(A)

**Main Landing Gear and Nose Landing Gear Inner Cylinder Retention Strap  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32030-4, -6, -10, -12, -18, -21**

**NAME:** LOCK - MAIN LANDING (MLG) GEAR DOOR

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32030-4 and -10 locks are used on 767-200 airplanes (V0001-V0088), A32030-6 and -12 locks are used on the 767-200,-300 airplanes (V0089-V5999), A32030-18 and -21 locks are used on 767-200, -300 and -400 airplanes (V0089-V5999). A32030 is used during ground operations to prevent accidental retraction of the main landing gear door. The pin is placed through the main landing gear, door bellcrank, and center hinge fitting. A spring pin secures the pin into position. Refer to AMM 32-00-15 for complete usage instructions. One A32030-4, -6 or -18 lock is required for the MLG door. The A32030-10, -12 and -21 locks are long-handled equivalents and optional to the A32030-4, -6 and -18 locks. A32030 locks consists of:

A32030-4		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PIN ASSEMBLY	A32030-8
1	QUICK RELEASE PIN	NAS1334C2C1.5D
1	WARNING STREAMER	NAS1756-24
1	LANYARD	CL-22-KA-32.0-LR
1	LANYARD	CL-22-KA-10.0-LR

A32030-6		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PIN ASSEMBLY	A32030-9
1	QUICK RELEASE PIN	NAS1334C2C1.5D
1	WARNING STREAMER	NAS1756-24
1	LANYARD	CL-22-KA-32.0-LR
1	LANYARD	CL-22-KA-10.0-LR

A32030-10		
QUANTITY	NOMENCLATURE	PART NUMBER
1	HANDLE ASSEMBLY	A32030-11
1	PIN	A32030-13
1	SPRING PIN	MS16562-30



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

A32030-12		
QUANTITY	NOMENCLATURE	PART NUMBER
1	HANDLE ASSEMBLY	A32030-11
1	PIN	A32030-14
1	SPRING PIN	MS16562-30

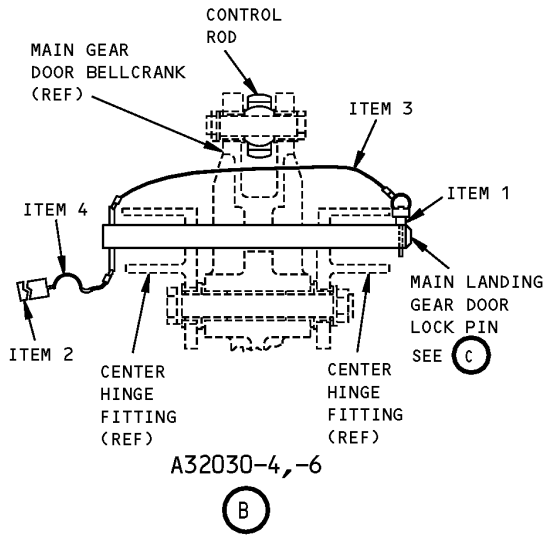
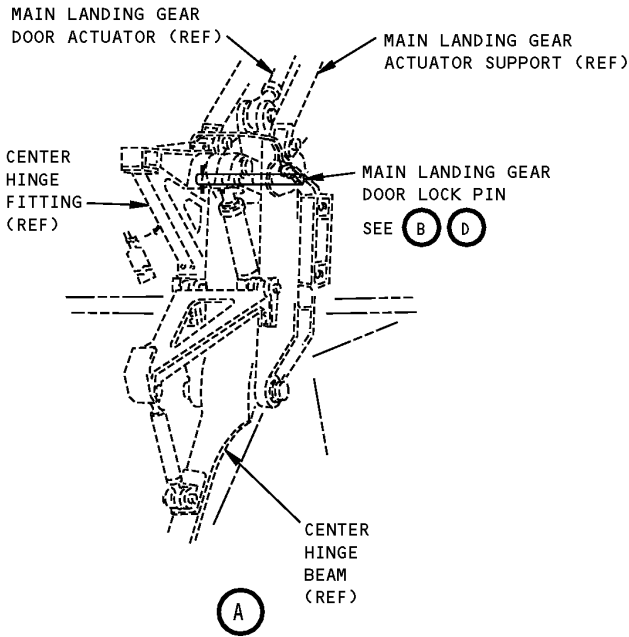
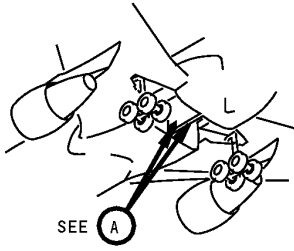
A32030-18		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PIN ASSEMBLY	A32030-19
1	SPRING PIN	MS16562-30
1	WARNING STREAMER	NAS1756-24
1	LANYARD	CL-22-KA-32.0-LR
1	LANYARD	CL-22-KA-10.0-LR

A32030-21		
QUANTITY	NOMENCLATURE	PART NUMBER
1	HANDLE ASSEMBLY	A32030-11
1	PIN	A32030-22
1	SPRING PIN	18-045

**WEIGHT:** A32030-4, -6 - 8 lbs (3.6 kg)  
A32030-10, -12 - 8 lbs (3.6 kg)  
A32030-18, -21 - 9 lbs (4.1 kg)

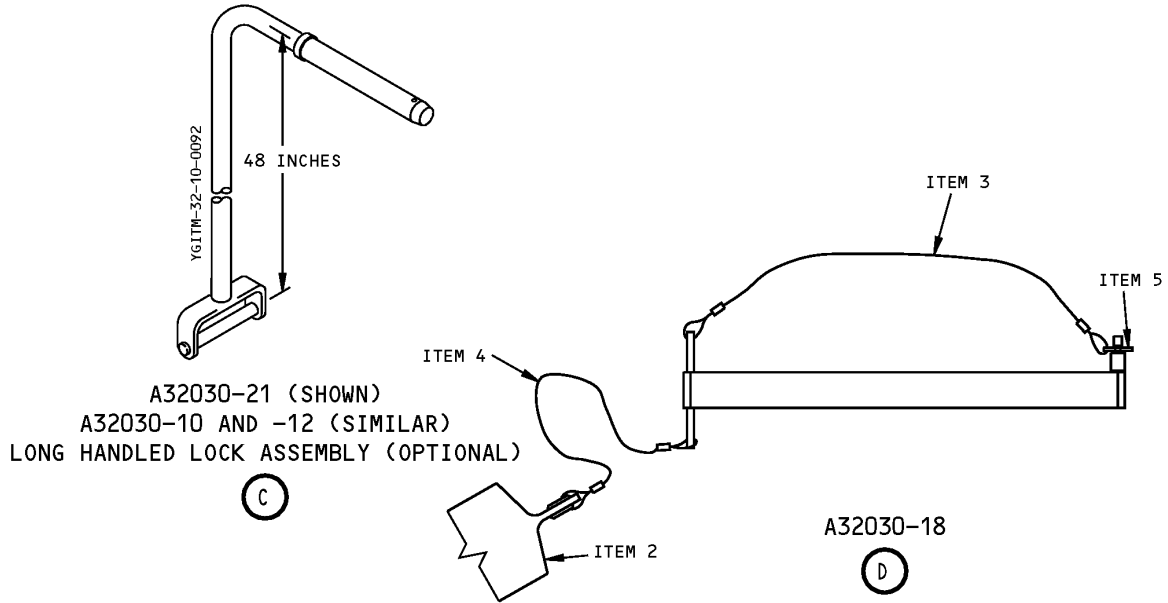
**DIMENSIONS:** A32030-4, -6, -18 - 2 x 5 x 7 inches (51 x 127 x 437 mm)  
A32030-10, -12, -21 - 7 x 18 x 50 inches (178 x 457 x 1270 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Door Lock  
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Main Landing Gear Door Lock  
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1334C2C1.5D	QUICK RELEASE PIN	
2	NAS1756-24	WARNING STREAMER	
3	CL-22-KA-32.0LR	LANYARD	V99862
4	CL-22-KA-10.0LR	LANYARD	V99862
5	CL-4-BLP-1.50-S	QUICK RELEASE PIN	V99862



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32031-4, -5**

**NAME:** TURNBUCKLE - TRUCK POSITION ACTUATOR, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** A32031-4 or -5 turnbuckle is used on 767-200 and -300 airplanes. A32031 is used to adjust and hold the angle of the main landing gear strut when the truck position actuator is removed during main landing gear removal/installation operations. A32031 is a turnbuckle body which mounts both left-hand and right-hand threaded rods. When the necessary clearance is achieved between the 161T1120 Inner Cylinder and the 161T1131 Bogie Beam, two spring pins lock rods into position. Refer to AMM 32-11-01, AMM 32-11-02, AMM 32-11-24, AMM 32-11-25, CMM 32-11-19 and CMM 32-11-20 for complete usage instructions. A32031 consists of:

A32031-4		
QUANTITY	NOMENCLATURE	PART NUMBER
1	TRUCK POSITIONER ASSEMBLY WITH SCREW REST BUTTONS	A32031-6
1	STORAGE BOX	

A32031-5		
QUANTITY	NOMENCLATURE	PART NUMBER
1	TRUCK POSITIONER ASSEMBLY	A32031-8
1	STORAGE BOX	

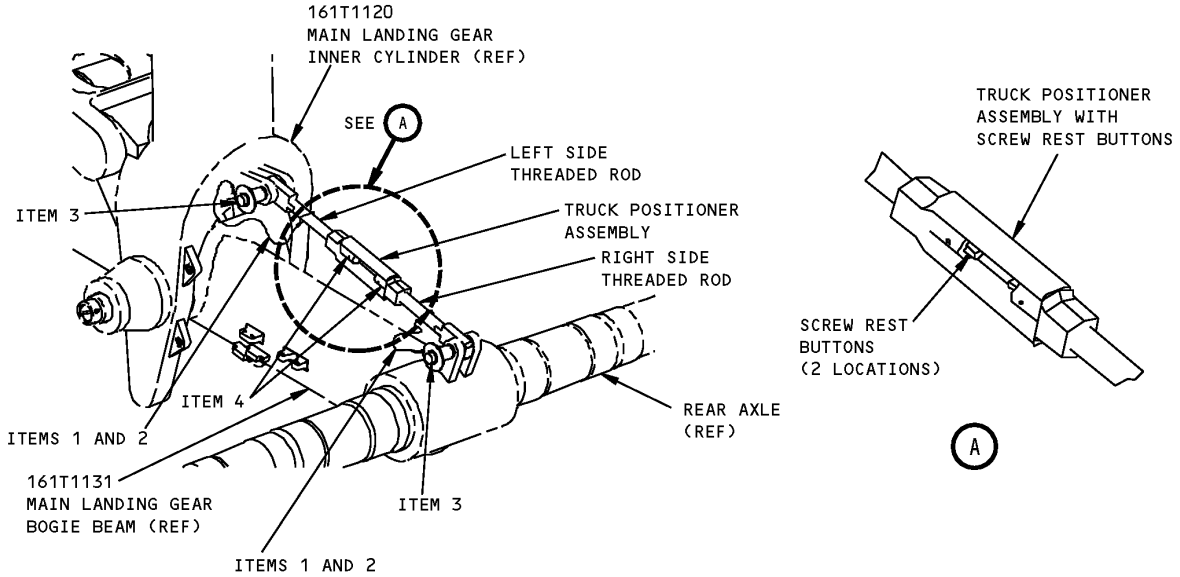
**WEIGHT:** 9 lbs (4.1 kg)

**DIMENSIONS:** 4 x 4 x 24 inches (102 x 102 x 610 mm)

**NOTE:** A32031-5 replaces A32031-4 for future procurement.  
A32031-4 supersedes A32031-1.



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Truck Position Actuator Turnbuckle  
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-21-KA-10.0LR	LANYARD	V99862
2	NAS1756-12	WARNING STREAMER	
3	NAS1343C3C28D	BALL LOCK PIN	
4	MS16562-25	SPRING PIN	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32017-1**

**NAME:** PULLER EQUIPMENT - FUSE BOLTS, FORWARD TRUNNION SUPPORT, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

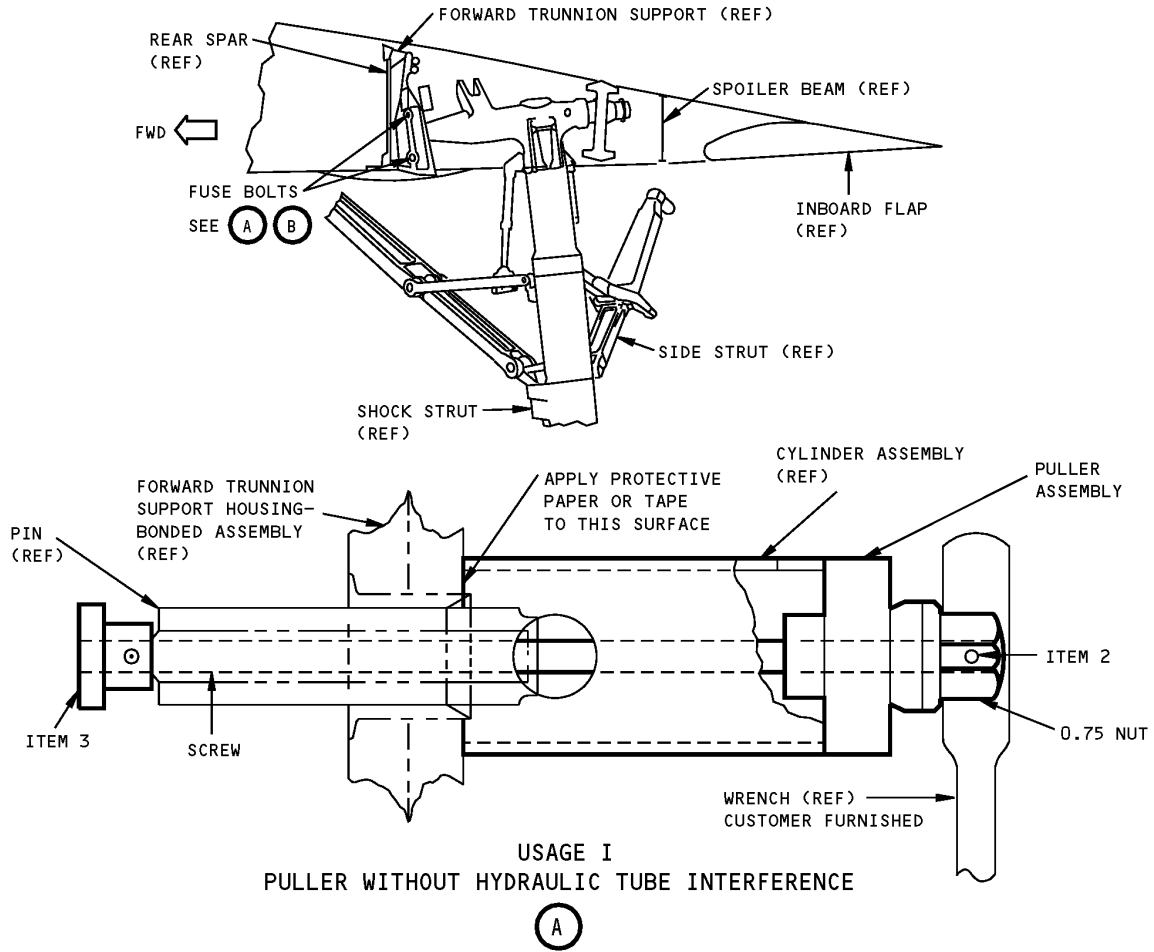
**USAGE & DESCRIPTION:** The A32017-1 puller equipment is used on 767-200 and -300 airplanes. A32017 is used to remove fuse bolts from the main landing gear forward trunnion support housing. refer to AMM 32-11-01 for complete usage instructions. A32017-1 consists of :

A32017-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PULLEY ASSEMBLY	A32017-2
1	STOP ASSEMBLY	A32017-8
1	PAD	A32017-10
1	HACK SCREW	A32017-11
1	WRENCH	R1618S
1	STORAGE BOX	

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

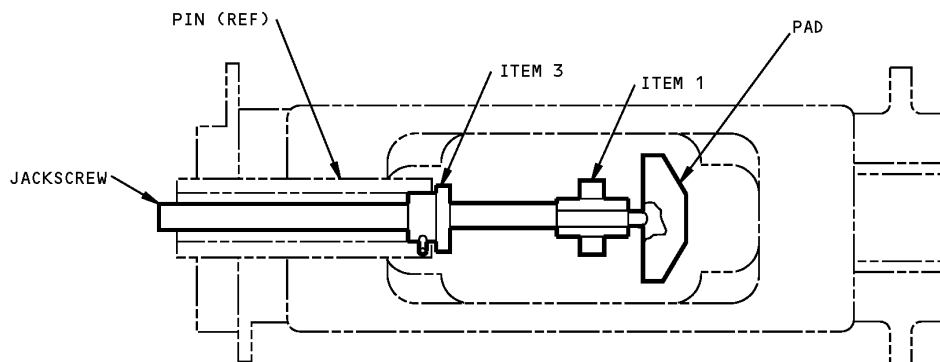
**DIMENSIONS:** 3 x 10 x 11 inches (76 x 254 x 279 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Forward Trunnion Support Fuse Bolts Puller Equipment  
Figure 1 (Sheet 1 of 2)**

**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



USAGE II  
PULLER WITH HYDRAULIC TUBE INTERFERENCE

Ⓑ

**Main Landing Gear Forward Trunnion Support Fuse Bolts Puller Equipment  
Figure 1 (Sheet 2 of 2)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	R1618S	BOX SOCKET WRENCH	V5719
2	MS16562-224	SPRING PIN	
3	A32017-8	STOP ASSEMBLY	



767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32026-60**

**NAME:** REMOVAL/INSTALLATION EQUIPMENT - TRUNNION PIN, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** A32026-60 removal/installation equipment is used on 767-200 and -300 airplanes. A32026 is used to remove and install the main landing gear trunnion pin. Refer to AMM 32-11-01 for complete usage instructions. A32026-60 consists of:

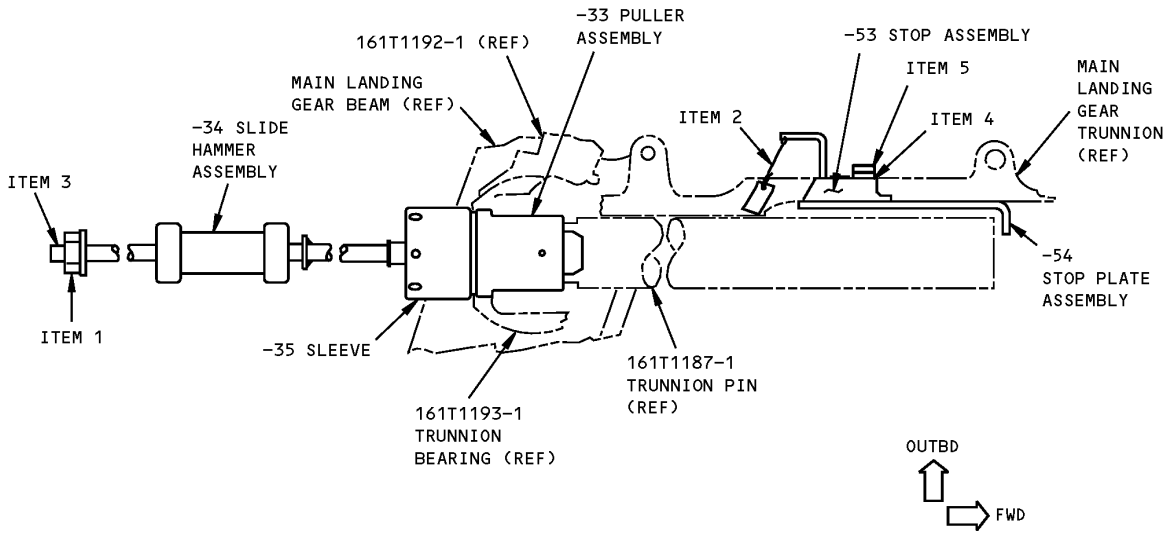
<b>A32026-60</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	PULLER ASSEMBLY	A32026-33
1	SLIDE HAMMER ASSEMBLY	A32026-34
1	SLEEVE	A32026-35
1	CLAMP ASSEMBLY	A32026-44
1	SPLINE WRENCH	A32026-49
1	STOP ASSEMBLY	A32026-53
1	PIN	A32026-58
1	SPANNER WRENCH	APS363
1	STORAGE BOX	

**WEIGHT:** 40 lbs (18 kg)

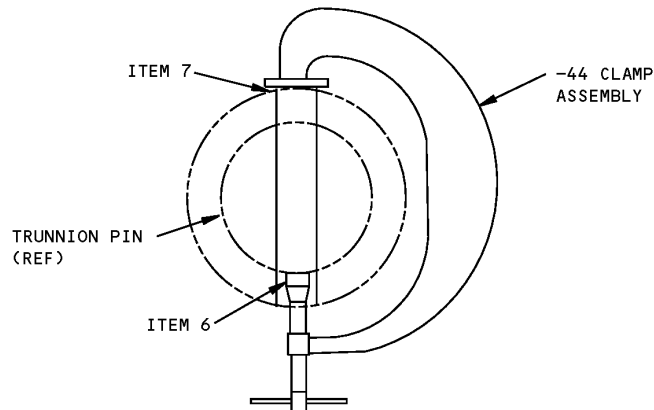
**DIMENSIONS:** 10 x 10 x 46 inches (254 x 254 x 1168 mm)

**NOTE:** A32026-60 supersedes A32026-1 and A32026-2.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Trunnion Pin Removal/Installation Equipment  
Figure 1 (Sheet 1 of 2)**



**Main Landing Gear Trunnion Pin Removal/Installation Equipment  
Figure 1 (Sheet 2 of 2)**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	20107	FLANGED NUT	V94882
2	CL-21-KA-12.0LR	LANYARD	V99862
3	MS24665-359	COTTER PIN	
4	A32026-52	RETAINER BAR	
5	A32026-51	KNOB	V99862
6	A32026-48	PAD	
7	A32026-47	PAD	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER:** A32032-39, -52, -64, -65

**NAME:** REMOVAL/INSTALLATION EQUIPMENT - MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32032-39 removal/installation sling is used on 767-200/-300 airplanes. The A32032-52 removal/installation equipment is used on 767-200/-300 airplanes, except 767-300ER. The A32032-64 removal/installation equipment is used on 767-200/-300 airplanes. The A32032-64 removal/installation sling is used on 767-200/-300 airplanes. The A32032 equipment is used for removal and installation of the main landing gear. There are two different procedures for removal and installation of the main landing gear. One procedure uses a jack assembly from either the A32032-52 or -64 removal/installation equipment. The A32032-64 is preferred over the A32032-52. The other procedure uses a customer-furnished overhead hoist with either the A32032-39 removal/installation sling or the A32032-65 removal/installation sling equipment. The A32032-65 is preferred over the A32032-39. Both procedures require that the airplane be jacked in accordance with AMM 07-11-01 prior to using any A32032 equipment. Additional equipment required for removing or installing the main landing gear includes: an A32006 main landing gear (MLG) retract actuator sling, an A32017 main landing gear forward trunnion support fuse bolt puller, an A32026 main landing gear trunnion pin equipment, an A32027 main landing gear retraction/extension actuator pump, an A32028 shock strut retention strap, an A32031 main landing gear truck positioner turnbuckle, an A32095 forward trunnion bearing bolt wrench and a fishpole hoist. Refer to AMM 32-11-01 and AMM 32-11-25 for complete usage instructions. A32032 consists of:

A32032-39		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SLING	EE2-803
1	PEAR LINK	1013977
1	SHACKLE	1018491
1	STORAGE BOX	

A32032-65		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SLING ASSEMBLY	A32032-45
1	STORAGE BOX	





767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

A32032-52		
QUANTITY	NOMENCLATURE	PART NUMBER
2	LARGE WASHER	A32032-5
2	MEDIUM WASHER	A32032-6
1	JACK ADAPTER	A32032-11
1	JACK ASSEMBLY	A32032-17
4	CART ASSEMBLY	A32032-22
1	PUMP ASSEMBLY	A32032-26
2	ROD ASSEMBLY	A32032-49
2	PIN	A32032-53
2	LARGE COLLAR	A32032-54
2	MEDIUM COLLAR	A32032-55
2	SMALL COLLAR	A32032-56
2	BOLT	AN6-6A
2	SMALL WASHER	AN960-416L
2	WASHER	AN960-616
1	STORAGE BOX	

A32032-64		
QUANTITY	NOMENCLATURE	PART NUMBER
2	LARGE WASHER	A32032-5
2	MEDIUM WASHER	A32032-6
1	JACK ADAPTER	A32032-11
1	JACK ASSEMBLY	A32032-17
4	CART ASSEMBLY	A32032-22
1	PUMP ASSEMBLY	A32032-26
2	ROD ASSEMBLY	A32032-49
2	PIN	A32032-53
2	LARGE COLLAR	A32032-54
2	MEDIUM COLLAR	A32032-55
2	SMALL COLLAR	A32032-56
2	TINY COLLAR	A32032-68
2	BOLT	AN6-6A
2	SMALL WASHER	AN960-416L
2	WASHER	AN960-616

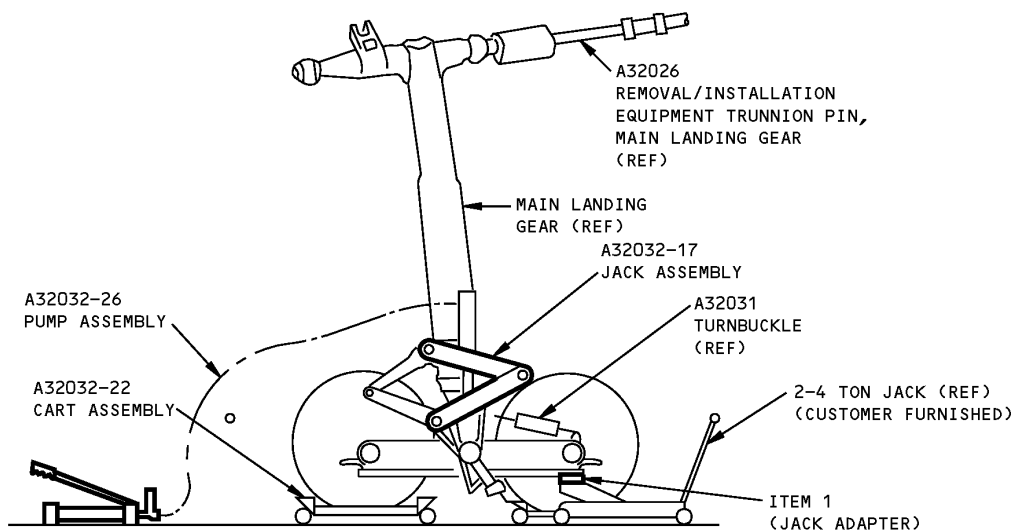
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

A32032-64		
QUANTITY	NOMENCLATURE	PART NUMBER
1	STORAGE BOX	

**WEIGHT:** A32032-39, -65 - 5 lbs (2.3 kg)  
A32032-52, -64 - 125 lbs (57 kg)

**DIMENSIONS:** A32032-39, -65 - 4 x 6 x 16 inches (102 x 152 x 406 mm)  
A32032-52, -64 - 6 x 14 x 18 inches (152 x 356 x 457 mm)

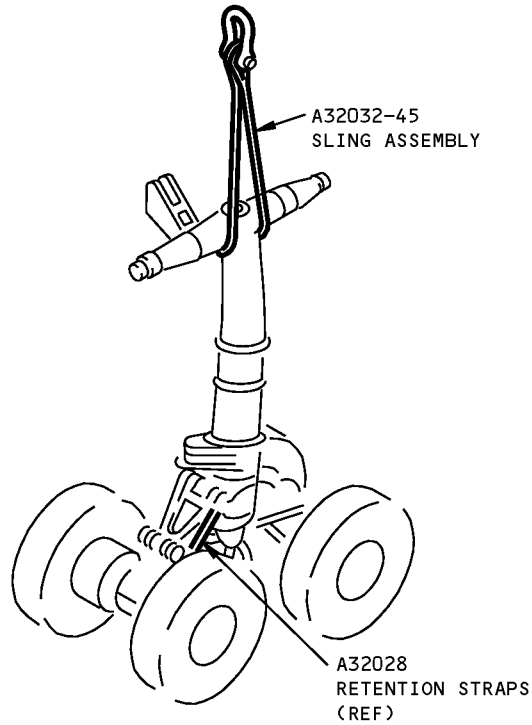
**NOTE:** A32032-65 replaces A32032-39 for future procurement.  
A32032-64 replaces A32032-52 for future procurement.  
A32032-52 supersedes A32032-38.



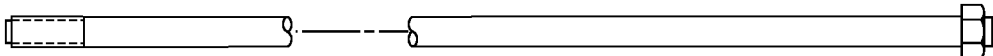
A32032-64 REMOVAL/INSTALLATION EQUIPMENT

**MAIN LANDING GEAR REMOVAL/INSTALLATION EQUIPMENT**  
Figure 1 (Sheet 1 of 3)

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



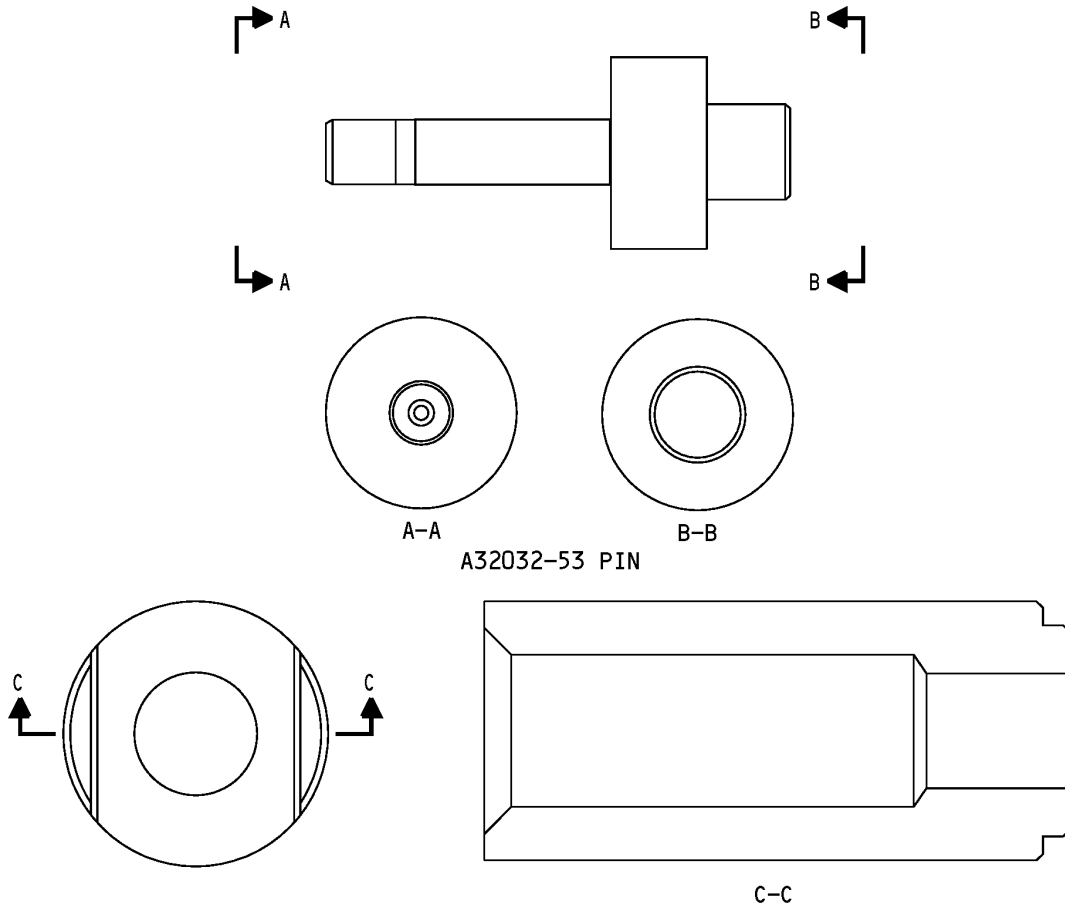
**A32032-65 REMOVAL/INSTALLATION SLING**



**A32032-49 ROD ASSEMBLY**

**MAIN LANDING GEAR REMOVAL/INSTALLATION EQUIPMENT**  
**Figure 1 (Sheet 2 of 3)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



A32032-53 PIN

A32032-54 LARGE COLLAR SHOWN  
A32032-55,56,-68 SIMILAR

MAIN LANDING GEAR REMOVAL/INSTALLATION EQUIPMENT  
Figure 1 (Sheet 3 of 3)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32032-11	JACK ADAPTER	

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32039-1**

**NAME:** REMOVAL TOOL - MAIN LANDING GEAR (MLG) BOGIE PIVOT PIN

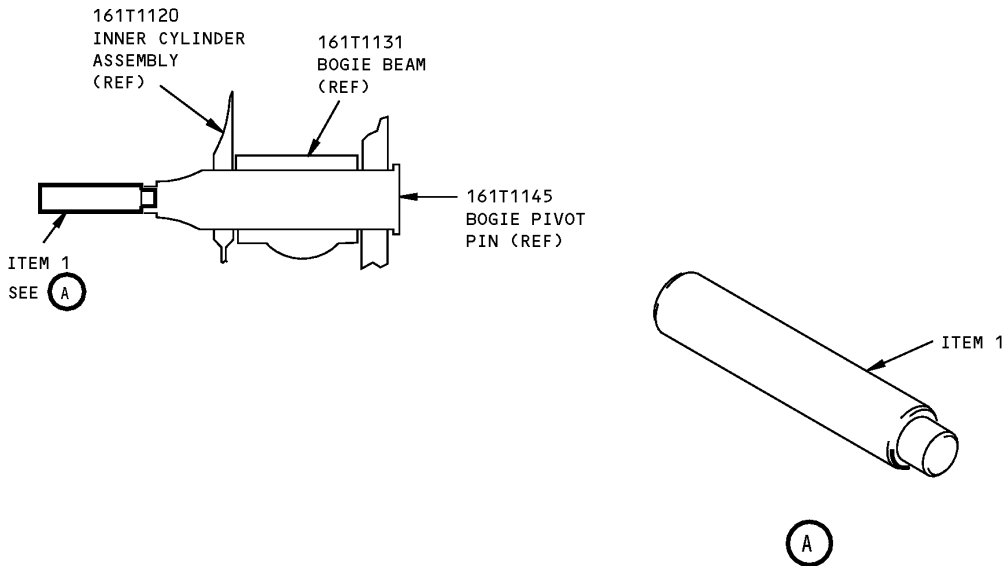
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32039-1 removal tool is used on all 767 airplanes except the 767-400ER. A32039 is a machined aluminum punch that is used to remove the bogie pivot pin by tapping out with a lead hammer. Refer to AMM 32-11-02, AMM 32-11-18 and CMM 32-11-30 for complete usage instructions. A32039-1 consists of only the A32039-1 removal tool.

**WEIGHT:** 3 lbs (1.4 kg)

**DIMENSIONS:** 2 dia x 11 inches (51 dia x 279 mm)



**Main Landing Gear Bogie Pivot Pin Removal Tool  
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32039-1	REMOVAL TOOL	

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32043-1**

**NAME:** TEST FIXTURE - ACTUATOR, MAIN LANDING GEAR (MLG) DOOR LATCH

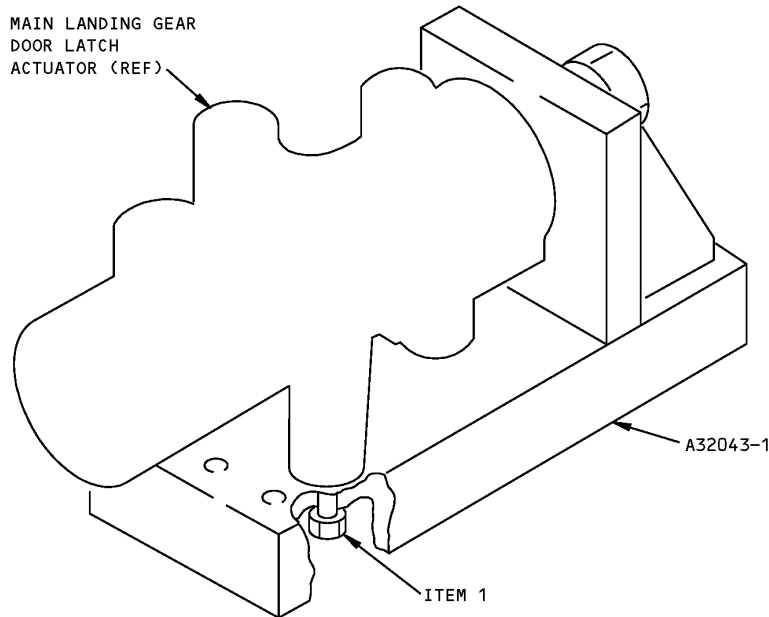
**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32043-1 test fixture is used on 767-200 and -300 airplanes. A32043 is used to hold the main landing gear door latch actuator assembly during functional test on the hydraulic test bench. Refer to CMM 32-32-13 for complete usage instructions. A32043-1 consists of a A32043-2 bracket assembly, an AN12-12 bolt and three MS16996-24 socket head cap screws.

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

**DIMENSIONS:** 3 x 4 x 7 inches (76 x 102 x 178 mm)



**Main Landing Gear Door Latch Actuator Test Fixture  
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS16996-24	SOCKET HEAD CAP SCREW	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32046-17**

**NAME:** FISHPOLE HOIST ATTACH BRACKET - MAIN LANDING GEAR (MLG) DOOR

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32046-1 fishpole hoist attach bracket is used on 767-200 and -300 airplanes. A32046 is used during main landing gear door removal and installation. The hoist plate assembly secures to the landing gear upstop and provides structural support for the customer-furnished fishpole hoist and cable. Refer to AMM 32-12-01 for complete usage instructions.

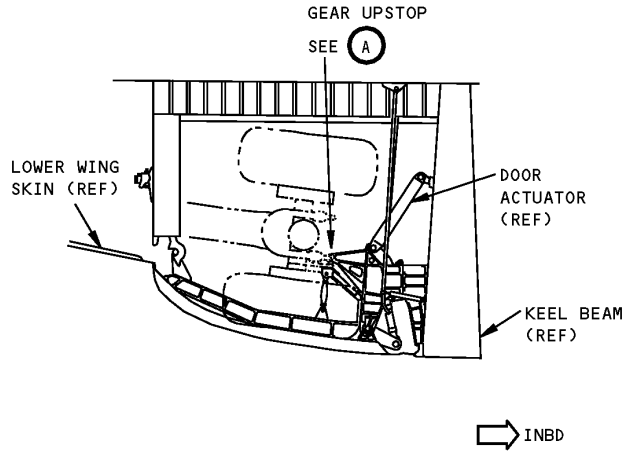
A32046-1		
QUANTITY	NOMENCLATURE	VENDOR CODE
1	HOIST BRACKET ASSEMBLY	A32046-18
1	HOIST FITTING ASSEMBLY	A32046-6
1	STORAGE BOX	

**WEIGHT:** 17 lbs (7.7 kg)

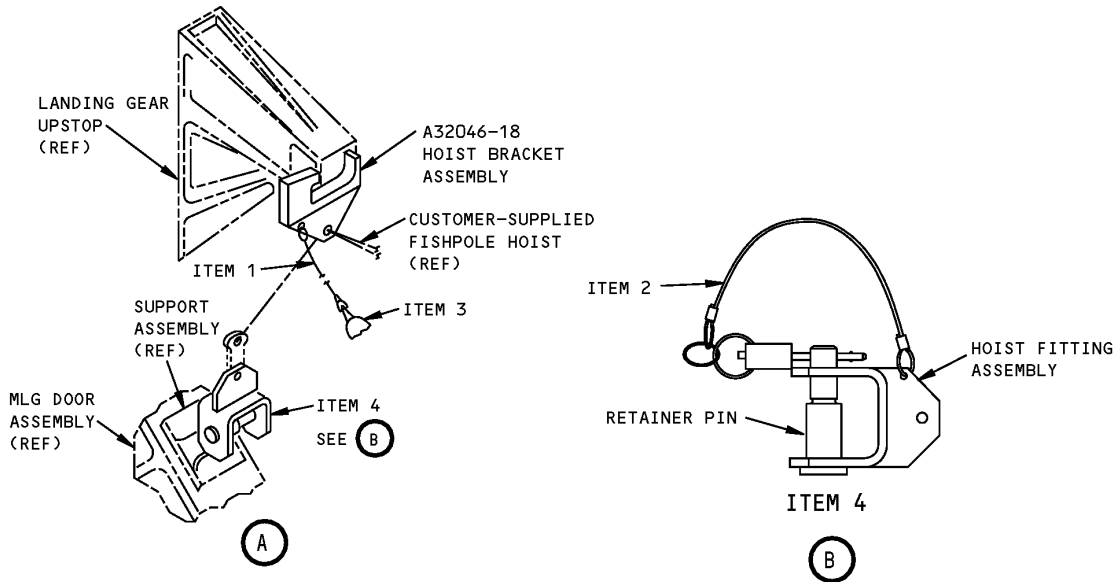
**DIMENSIONS:** 4 x 10 x 19 inches (102 x 254 x 483 mm)

**NOTE:** A32046-17 supersedes A32046-14.

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Door Fishpole Hoist Attach Bracket**  
**Figure 1 (Sheet 1 of 2)**



**Main Landing Gear Door Fishpole Hoist Attach Bracket**  
**Figure 1 (Sheet 2 of 2)**





767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	CL-22-KA-10.0LR	LANYARD	
2	CL-21-KA-10.0LR	LANYARD	
3	NAS1756-24	WARNING STREAMER	
4	A32046-6	HOIST FITTING ASSEMBLY	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32051-1**

**NAME:** COMPONENT MAINTENANCE EQUIPMENT - SHOCK STRUT, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

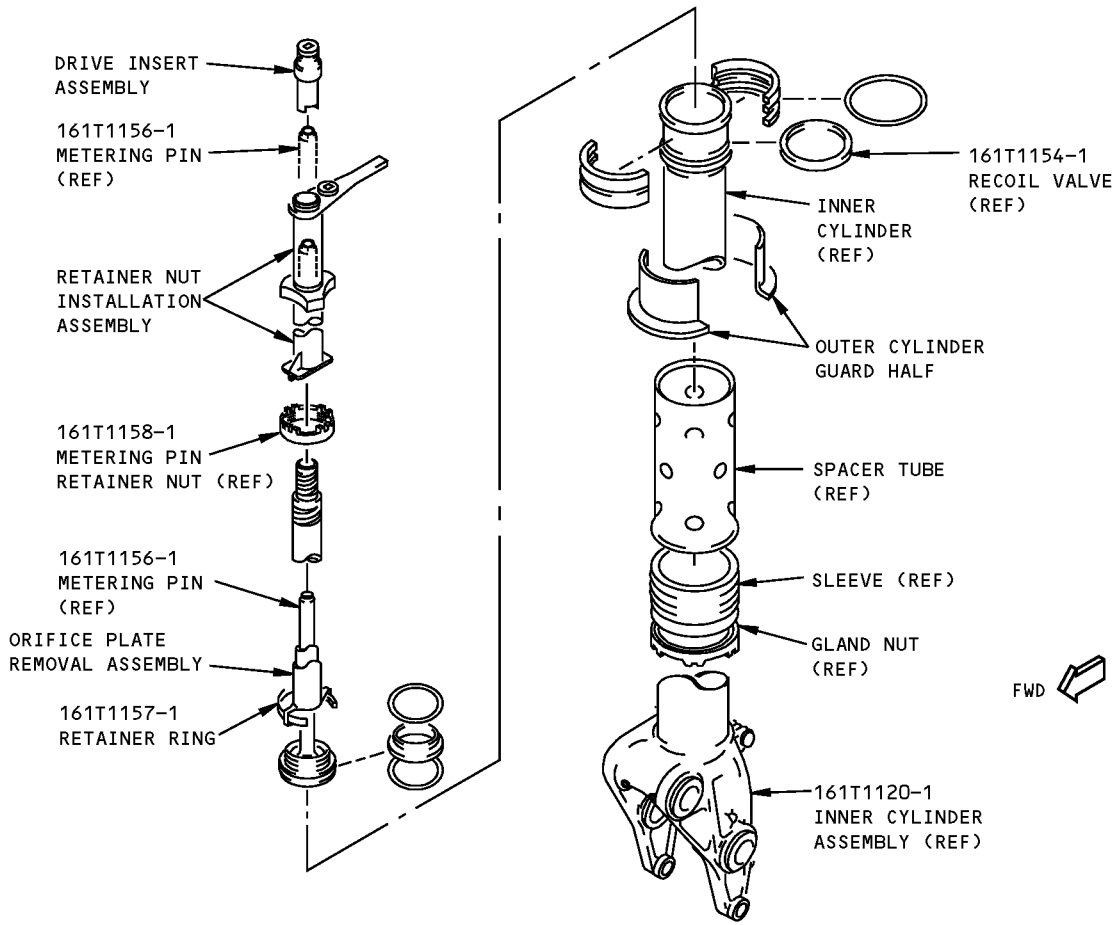
**USAGE & DESCRIPTION:** The A32051-1 component maintenance equipment is used on 767-200 and -300 airplanes. A32051 is used to remove or install components of the main landing gear shock strut. Refer to CMM 32-11-30 and CMM 32-11-40 for complete usage instructions. A32051-1 consists of:

A32051-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	EXTRACTOR ASSEMBLY	A32051-2
2	GUARD HALF	A32051-3
1	RETAINER NUT INSTALLATION ASSEMBLY	A32051-4
1	DRIVE INSERT ASSEMBLY	A32051-5
1	RETAINER RING REMOVAL ASSEMBLY	A32051-6
1	THREAD PROTECTOR	A32051-7
1	PUSH PLATE HANDLE	A32051-8
1	HANDLE SLEEVE	A32051-9
1	STORAGE BOX	

**WEIGHT:** 80 lbs (36 kg)

**DIMENSIONS:** 12 x 40 x 40 inches (305 x 1016 x 1016 mm)

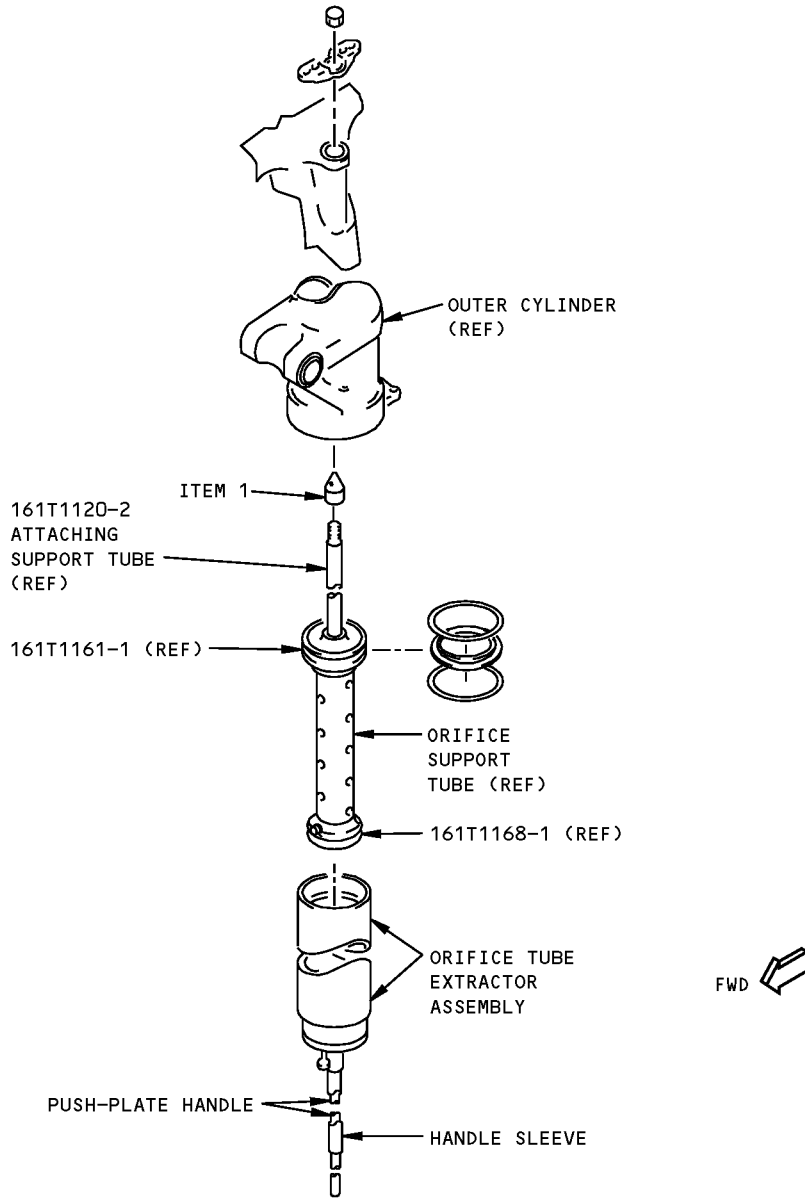
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



USAGE I

**Main Landing Gear Shock Strut Component Maintenance Equipment  
Figure 1 (Sheet 1 of 2)**

**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



USAGE II

**Main Landing Gear Shock Strut Component Maintenance Equipment  
Figure 1 (Sheet 2 of 2)**



767

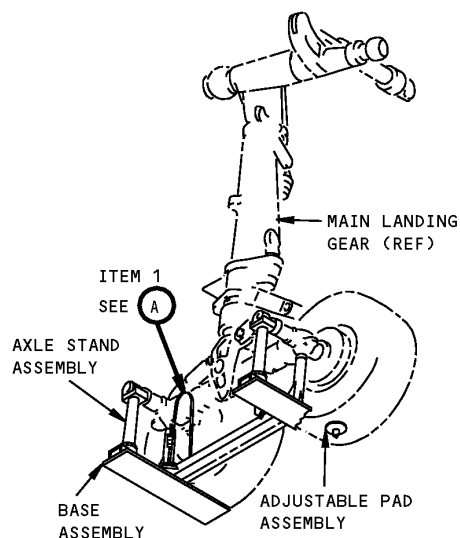
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32051-7	THREAD PROTECTOR	

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

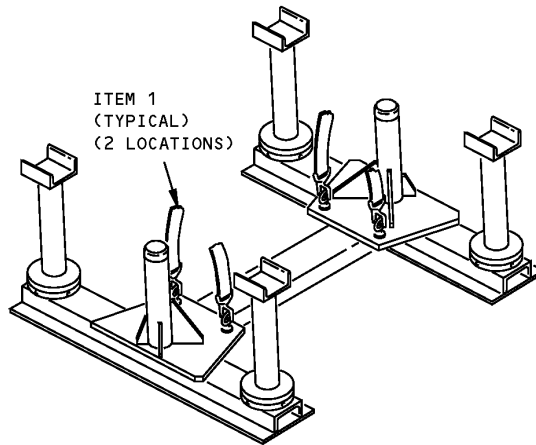
**PART NUMBER: A32056-1**

<b>NAME:</b>	STAND EQUIPMENT - MAIN LANDING GEAR (MLG) BUILDUP
<b>AIRPLANE MAINTENANCE:</b>	NO
<b>COMPONENT MAINTENANCE:</b>	YES
<b>USAGE &amp; DESCRIPTION:</b>	The A32056-1 stand equipment is used on 767-200 and -300 airplanes. A32056 is used to support the main landing gear in the vertical position for removal or installation of gear buildup components. A32056 also secures the main landing gear shock strut inner cylinder which allows for removal of the outer cylinder. Refer to CMM 32-11-19, CMM 32-11-20 and CMM 32-11-30 for complete usage instructions. A32056-1 consists of four A32056-3 axle stand assemblies, two A32056-19 belt assemblies, both contained in a storage box. An A32056-2 base assembly is also included but not contained in a storage box.
<b>WEIGHT:</b>	770 lbs (349 kg)
<b>DIMENSIONS:</b>	29 x 53 x 68 inches (737 x 1346 x 1727 mm)
<b>NOTE:</b>	B32050 replaces A32056 for future procurement.



**Main Landing Gear Buildup Stand Equipment  
Figure 1 (Sheet 1 of 2)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



A32056-1  
 MAIN LANDING GEAR BUILDUP STAND EQUIPMENT

A

**Main Landing Gear Buildup Stand Equipment**  
**Figure 1 (Sheet 2 of 2)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32056-19	BELT ASSEMBLY	V01276



767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32064-1**

**NAME:** FIXTURE - TEST, MAIN LANDING GEAR (MLG) DOOR ARMING LOCKOUT ACTUATOR

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32064-1 fixture may be used during component maintenance on 767-200 and -300 airplanes. A32064 is used as a fixture to hold the main landing gear door arming lockout actuator for leak test and pressure proof test. Usage may be found in CMM 32-32-15. A32064-1 consists of:

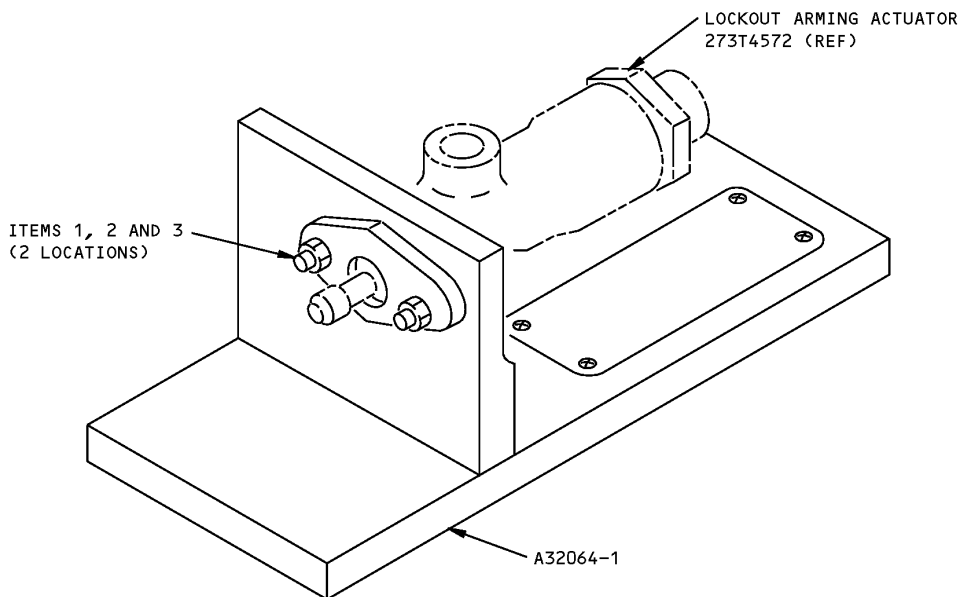
<b>A32064-1</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	BASE ASSEMBLY	A32064-2
2	HEX HEAD SCREW	AN4-10
2	HEX NUT	AN315-4
2	WASHER	AN960-416L
1	STORAGE BOX	

**WEIGHT:** 6 lbs (2.7 kg)

**DIMENSIONS:** 3 x 4 x 9 inches (76 x 102 x 229 mm)



**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Door Arming Lockout Actuator Test Fixture**  
**Figure 1**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	AN960-416L	WASHER	
2	AN315-4	HEX NUT	
3	AN4-10	HEX HEAD SCREW	

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32055-1**

**NAME:** LOCATING JIG - SEQUENCE VALVE, MAIN LANDING GEAR (MLG) OPERATED

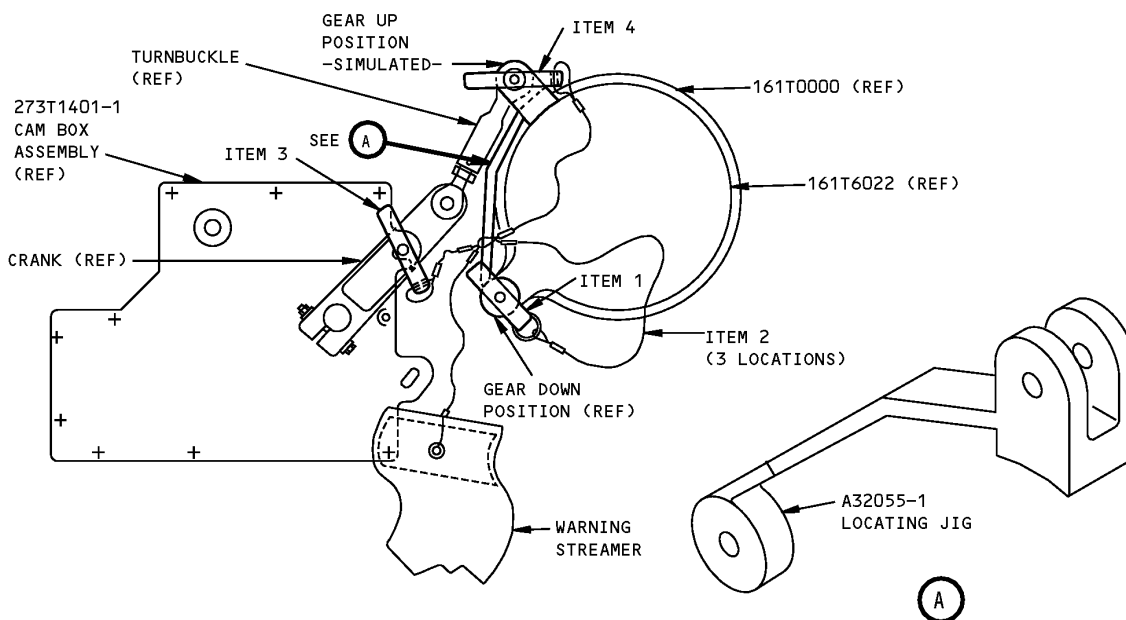
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32055-1 locating jig is used on 767-200 and -300 airplanes. A32055 is used to simulate the UP position of the washer of the landing gear for use in rigging the crank arm of the sequence valve. Refer to AMM 32-32-08 for complete usage instructions. A32055-1 consists of an A32055-2 jig assembly contained in a storage box.

**WEIGHT:** 2 lbs (0.9 kg)

**DIMENSIONS:** 4 x 6 x 9 inches (102 x 152 x 229 mm)



**Main Landing Gear Operated Sequence Valve Locating Jig**  
**Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1334C2C1.1D	QUICK RELEASE PIN	
2	CL-22-KA-8.0LR	LANYARD	V99862



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	CL-7-TP	T - PIN	V99862
4	CL-5-TP	T - PIN	V99862

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32073-1**

**NAME:** RIGGING BAR - MAIN GEAR SIDE STRUT

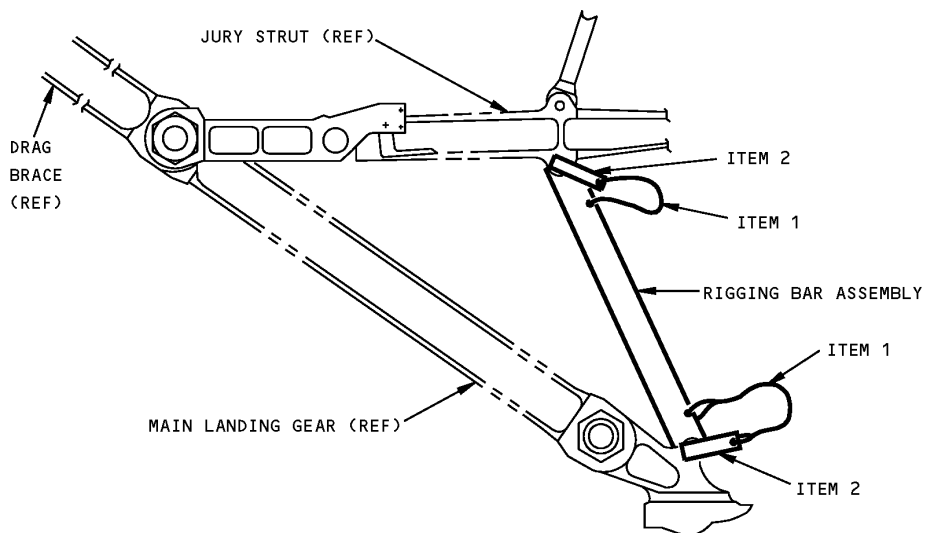
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32073-1 rigging bar is used on 767-200 and -300 airplanes. A32073 is used to rig the main landing gear side brace assembly. A32073 holds the drag brace assembly to a fixed position while the lower side brace assembly eccentric is adjusted. Refer to AMM 32-00-20, AMM 32-11-03, AMM 32-11-10, AMM 32-11-11 and AMM 32-11-12 for complete usage instructions. A32073-1 consists of an A32073-2 bar assembly.

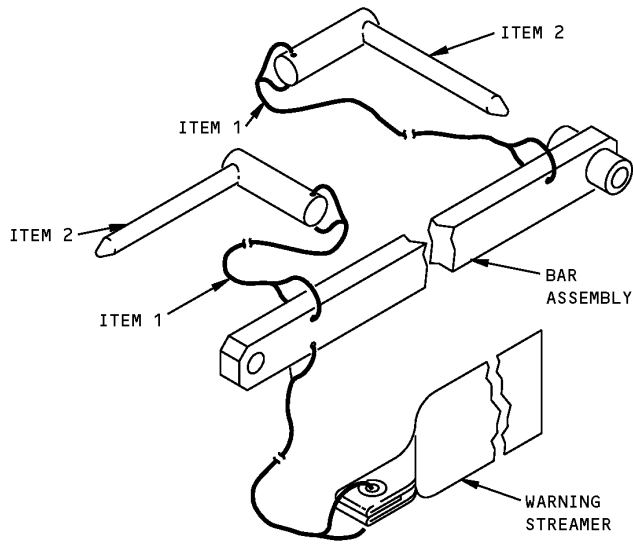
**WEIGHT:** 10 lbs ((4.5 kg)

**DIMENSIONS:** 2 x 2 x 28 inches (51 x 51 x 711 mm)



**Main Gear Side Strut Rigging Bar  
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Main Gear Side Strut Rigging Bar  
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-23-KA-12.0LR	CABLE ASSEMBLY	V99862
2	CL-16-LP-C	"L" PIN	V99862



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: B32050-1, -50**

**NAME:** ASSEMBLY FIXTURE - MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The B32050-1 assembly fixture is used on 767-200 and -300 airplanes. The B32050-50 assembly fixture is used on 767-200, -300 and -400 airplanes. B32050 is used to support the main landing gear in the vertical position for removal or installation of landing gear buildup components. Refer to CMM 32-11-23, CMM 32-11-30 and CMM 32-11-36 for complete usage instructions. B32050-1 and -50 consist of:

B32050-1		
QUANTITY	NOMENCLATURE	VENDOR CODE
2	SUPPORT ASSEMBLY	B32050-2
1	ARM SUPPORT ASSEMBLY	B32050-4 <sup>*[1]</sup>
1	STOOL SUPPORT ASSEMBLY	B32050-5 <sup>*[1]</sup>
2	AXLE SUPPORT ASSEMBLY	B32050-6
2	AXLE SUPPORT ASSEMBLY	B32050-7
2	TIRE SUPPORT ASSEMBLY	B32050-8
2	BASE PLATE	B32050-23
1	BASE PLATE	B32050-24 <sup>*[1]</sup>
VARIOUS	CONNECTING HARDWARE	
1	STORAGE BOX	

\*[1] NOT INCLUDED IN BOX

B32050-50		
QUANTITY	NOMENCLATURE	VENDOR CODE
2	SUPPORT ASSEMBLY	B32050-51
1	ARM SUPPORT ASSEMBLY	B32050-4 <sup>*[1]</sup>
1	STOOL SUPPORT ASSEMBLY	B32050-5 <sup>*[1]</sup>
2	AXLE SUPPORT ASSEMBLY	B32050-6
2	AXLE SUPPORT ASSEMBLY	B32050-7
2	TIRE SUPPORT ASSEMBLY	B32050-8
2	BASE PLATE	B32050-52 <sup>*[1]</sup>
1	BASE PLATE	B32050-24 <sup>*[1]</sup>
2	SOCKET	B32050-53

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

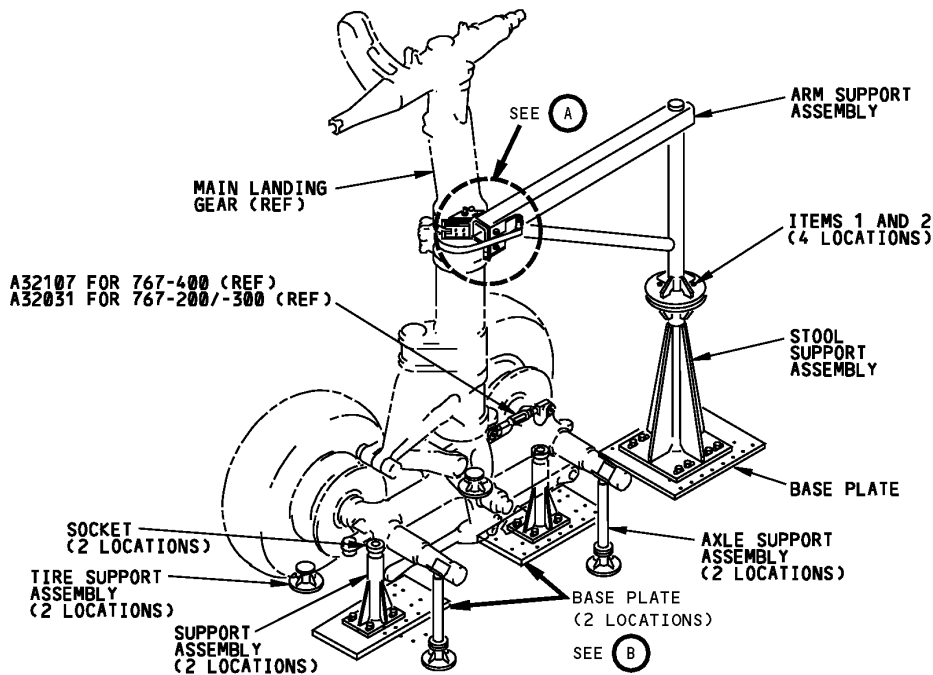
B32050-50		
QUANTITY	NOMENCLATURE	VENDOR CODE
VARIOUS	CONNECTING HARDWARE	
1	STORAGE BOX	

\*[1] NOT INCLUDED IN BOX

**WEIGHT:** 900 lbs (408 kg)

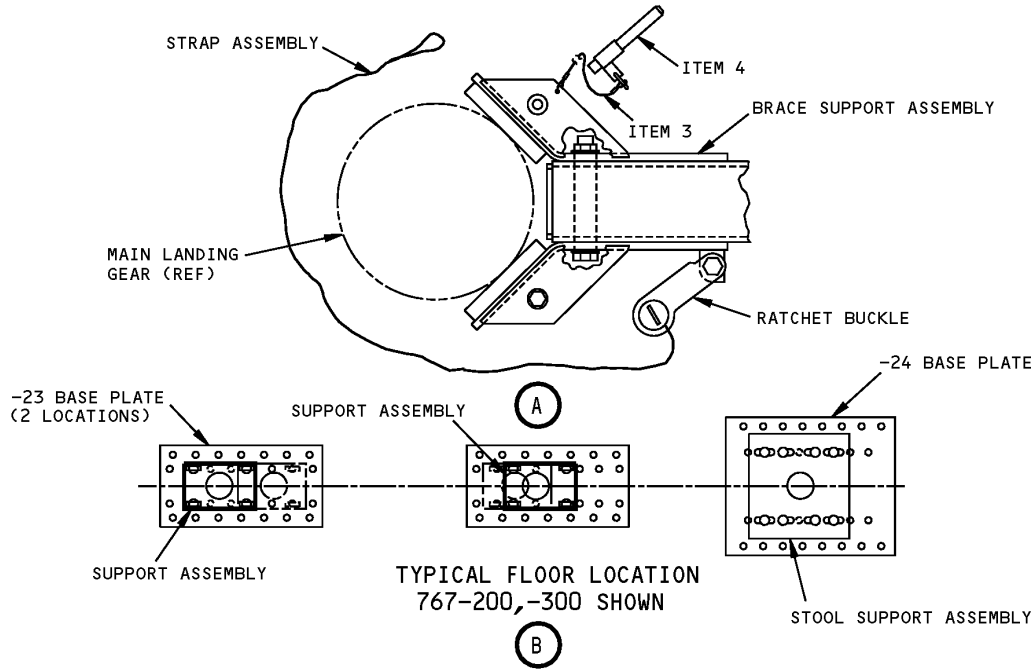
**DIMENSIONS:** 15 x 129 x 133 inches (381 x 3277 x 3378 mm)

**NOTE:** B32050-50 replaces B32050-1 for future procurement.  
B32050 replaces A32056 for future procurement.



**Main Landing Gear Assembly Fixture**  
Figure 1 (Sheet 1 of 2)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Assembly Fixture  
Figure 1 (Sheet 2 of 2)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	ANS-13A	BOLT	
2	B32050-59	HEX CAP SCREW	
3	CL-23-KA-12.0-LR	CABLE ASSEMBLY	V99862
4	NAS1338C5C45D	QUICK RELEASE PIN	





767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32067-1, -11, -13**

**NAME:** PULLER EQUIPMENT - BUSHING, MAIN LANDING GEAR (MLG) BOGIE BEAM

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32067-1 puller equipment may be used on 767-200 and -300 airplanes that are not equipped with heavyweight landing gear. The A32067-11 puller equipment is used on all 767-200 and -300 airplanes and is required for 767-200 and -300 airplanes equipped with heavyweight landing gear. The A32067-13 puller equipment is used on 767-400 airplanes. A32067 is used to remove the axle and/or pivot pin bushing on the main landing gear bogie beam. Refer to CMM 32-11-50 for complete usage instructions. A32067-11 and -13 consist of:

A32067-11		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PULLER ASSEMBLY	A32067-2
1	TUBE	A32067-8
2	PLATE	A32067-9
1	STORAGE BOX	

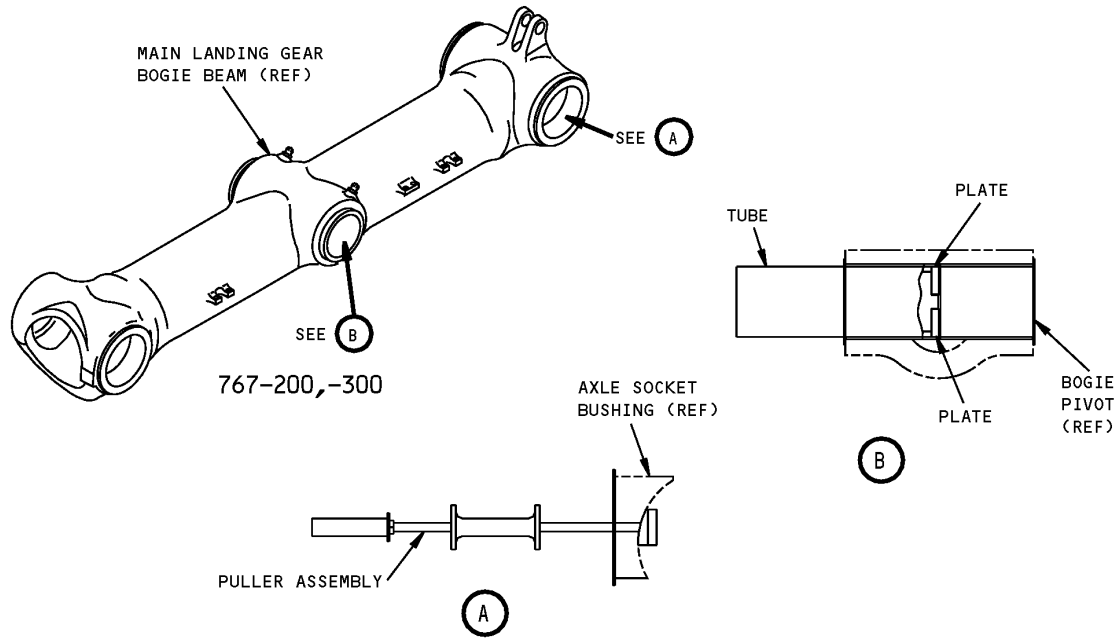
A32067-13		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SLIDE HAMMER	A32067-6
1	END/MID ADAPTER PLATE	A32067-14
1	PIVOT ADAPTER PLATE	A32067-15
1	CLAMP ASSEMBLY	A32067-16
1	STORAGE BOX	

**WEIGHT:** A32067-1 - 25 lbs (11 kg)  
A32067-11 - 25 lbs (11 kg)  
A32067-13 - 13 lbs (6 kg)

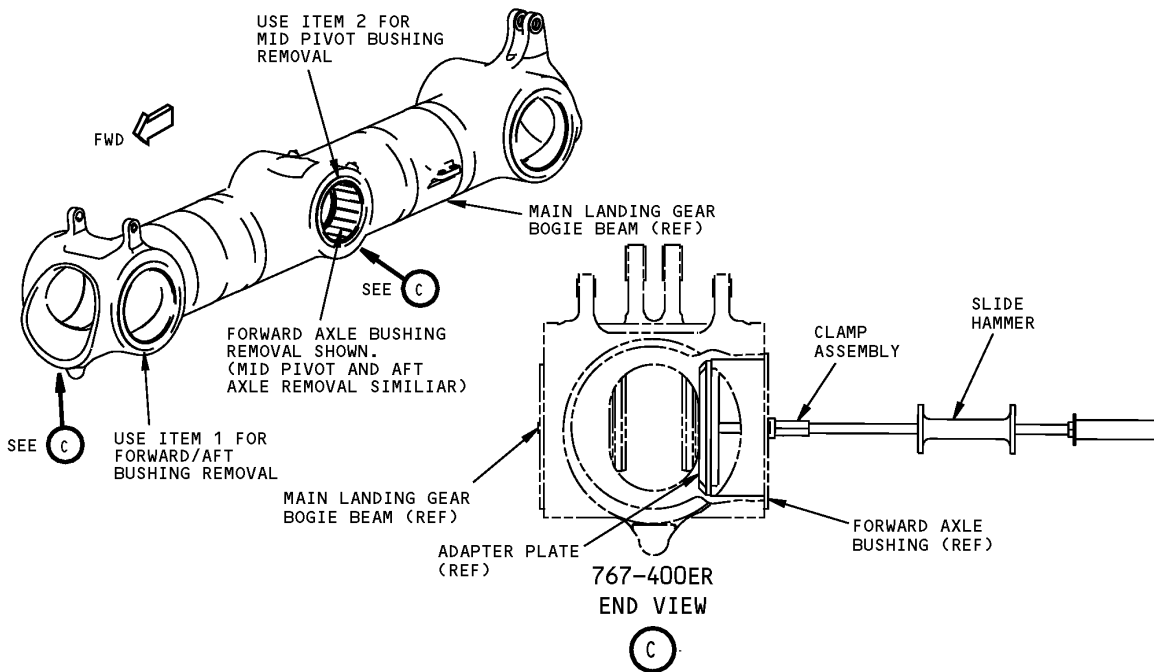
**DIMENSIONS:** 6 x 10 x 20 inches

**NOTE:** A32067-11 replaces A32067-1 for future procurement.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Bogie Beam Bushing Puller Equipment  
Figure 1 (Sheet 1 of 2)**



**Main Landing Gear Bogie Beam Bushing Puller Equipment  
Figure 1 (Sheet 2 of 2)**



767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	A32067-14	END/MID ADAPTER PLATE	
2	A32067-15	PIVOT ADAPTER PLATE	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32077-1**

**NAME:** GAUGE - MAIN LANDING GEAR (MLG) DOOR, OPEN POSITION

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

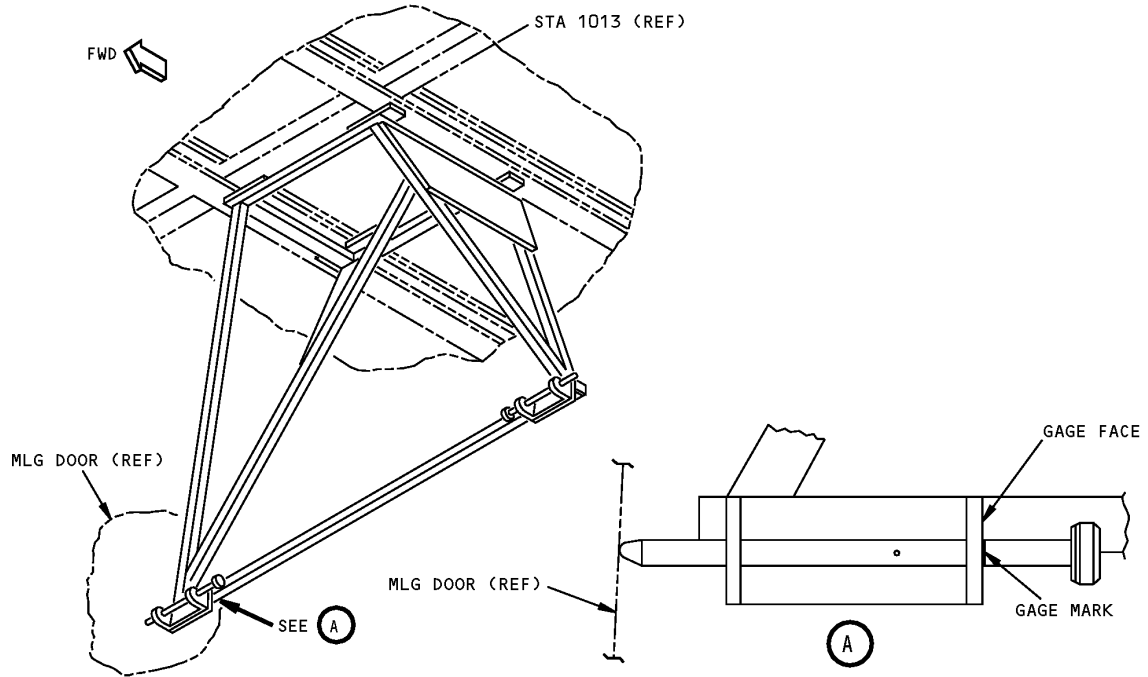
**USAGE & DESCRIPTION:** The A32077-1 gage is applicable to the 767-200 production block V0001-V0088 airplanes only. A32077 is used to locate the MLG door in the open position, allowing the door open stop to be adjusted. Refer to AMM 32-12-00 for complete usage instructions. A32077-1 consists of:

<b>A32077-1</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	FRAME ASSEMBLY	A32077-2
2	BULL NOSE PIN	A32077-11
2	BRACKET	A32077-12
4	MOUNTING PAD	A32077-13
4	PAD	A32077-14
2	BUMPER	A32077-15
6	POP RIVET	A32077-17
1	STORAGE BOX	

**WEIGHT:** 21 lbs (10 kg)

**DIMENSIONS:** 14 x 33 x 50 inches (356 x 838 x 1270 mm)

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Door, Open Position Gauge**  
**Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32079-1**

**NAME:** PULLER EQUIPMENT - BRAKE SLEEVE, MAIN LANDING GEAR (MLG) AXLE

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

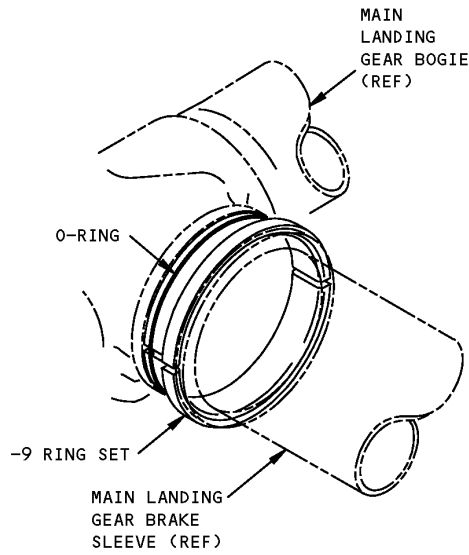
**USAGE & DESCRIPTION:** The A32079-1 puller equipment is used on 767-200, -200ER, -300, -300ER and -300F airplanes. A32079 is used to pull the main landing gear brake sleeve. Refer to AMM 32-11-26 and CMM 32-11-50 for complete usage instructions. A32079-1 consists of:

A32079-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PULLER ASSEMBLY	A32079-2
1	RING SET	A32079-9
1	PUMP	P-80
1	HOSE ASSEMBLY	HC-913
1	O-RING	NAS1611-259
1	CYLINDER	RC506T
1	STORAGE BOX	

**WEIGHT:** 62 lbs (28 kg)

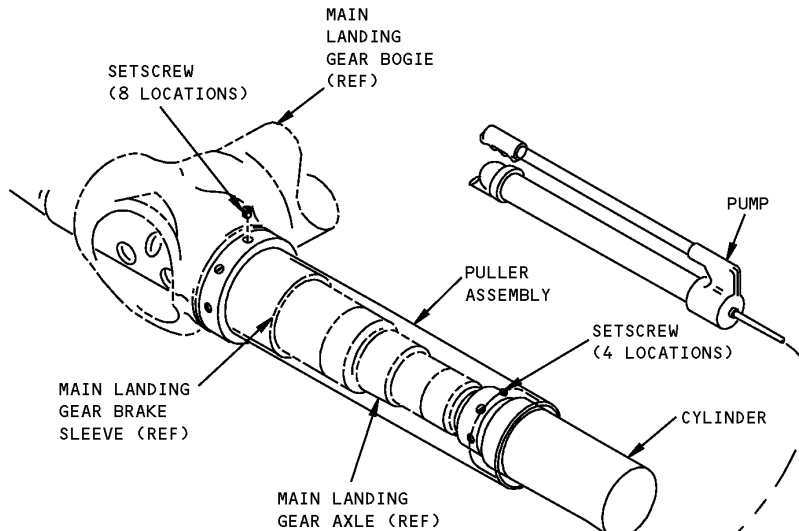
**DIMENSIONS:** 12 x 18 x 40 inches (305 x 457 x 1016 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**STEP I  
INSTALLATION OF RING SET**

**Main Landing Gear Axle Brake Sleeve Puller Equipment  
Figure 1 (Sheet 1 of 2)**



**STEP II  
INSTALLATION OF PULLER ASSEMBLY**

**Main Landing Gear Axle Brake Sleeve Puller Equipment  
Figure 1 (Sheet 2 of 2)**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1611-259	O-RING	





767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32081-1**

**NAME:** PLUG - BUSHING INSTALLATION, MAIN LANDING GEAR (MLG) BOGIE

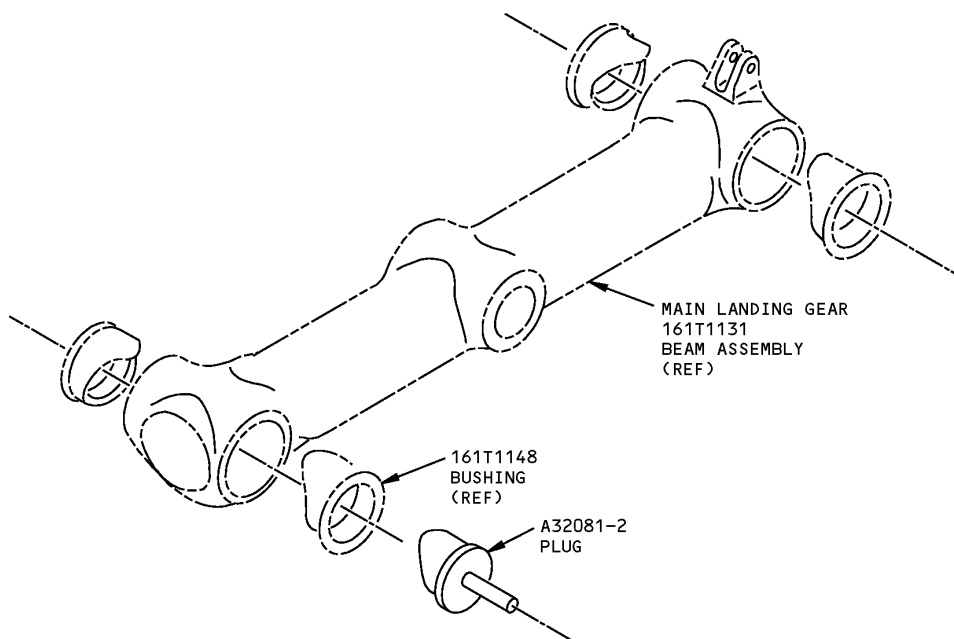
**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32081-1 plug is used on 767-200 and -300 airplanes. A32081 is used as an alignment tool and heat sink during installation of the 161T1148 bushing on the main landing gear bogie beam. Refer to the current A32081 drawing and CMM 32-11-51 for complete usage instructions. A32081-1 consists of a A32081-2 plug assembly contained in a storage box.

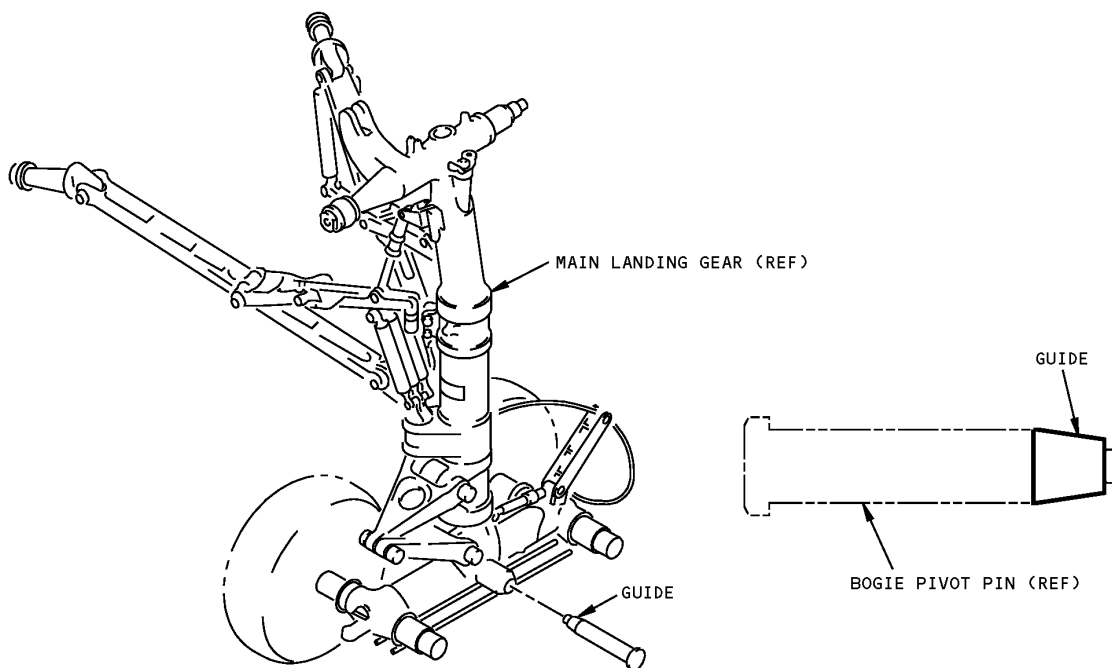
**WEIGHT:** 10 lbs (4.5 kg)

**DIMENSIONS:** 7 x 7 x 11 inches (178 x 178 x 279 mm)



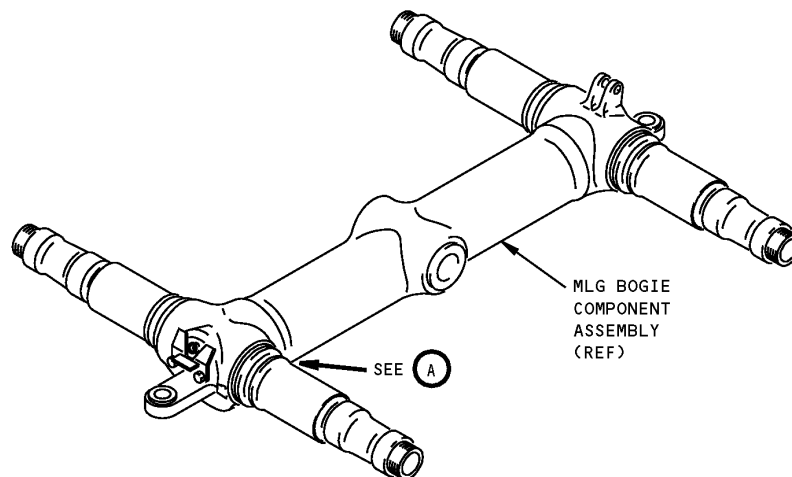
**Main Landing Gear Bogie Bushing Installation Plug  
Figure 1**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32082-1****NAME:** GUIDE - PIVOT PIN, MAIN LANDING GEAR (MLG)**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** YES**USAGE & DESCRIPTION:** The A32082-1 guide is used on all 767 airplanes except the 767-400. A32082 is used to facilitate installation of the main landing gear pivot pin and to prevent damage to seals. Refer to AMM 32-11-02, AMM 32-11-18 and CMM 32-11-18 for complete usage instructions. The A32082-1 consists of an A32082-2 guide contained in a storage box.**WEIGHT:** 1 lb (0.5 kg)**DIMENSIONS:** 6 x 6 x 8 inches (152 x 152 x 203 mm)

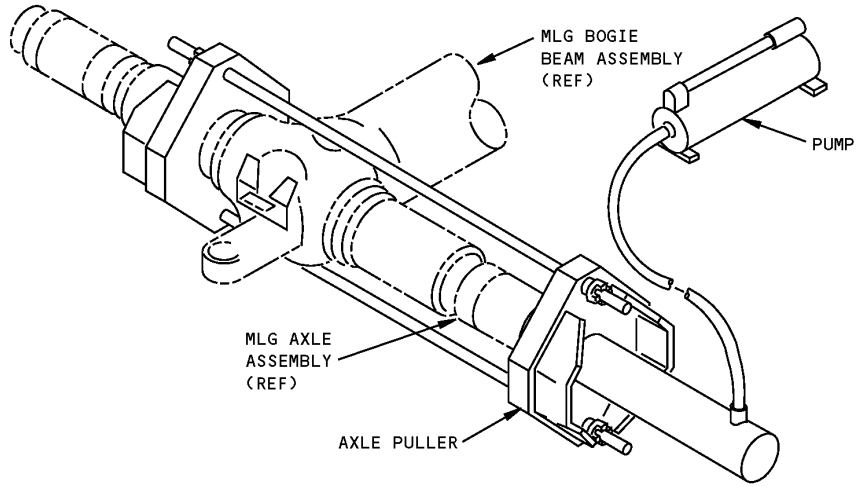
**Main Landing Gear Pivot Pin Guide  
Figure 1**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32083-12****NAME:** AXLE PULLER - MAIN LANDING GEAR (MLG)**AIRPLANE MAINTENANCE:** NO**COMPONENT MAINTENANCE:** YES**USAGE & DESCRIPTION:** The A32083-12 axle puller is used on 767-200 and -300 airplanes. A32083 is used to remove and install axles on the MLG bogie during overhaul of the bogie component assembly. Refer to CMM 32-11-50 and current A32083 drawing for further usage instructions. The tool consists of an A32083-19 axle puller assembly contained in a storage box.**WEIGHT:** 225 lbs (102 kg)**DIMENSIONS:** 13 x 15 x 62 inches (330 x 432 x 1575 mm)**NOTE:** A32083-12 supersedes A32083-1.

**Main Landing Gear Axle Puller  
Figure 1 (Sheet 1 of 2)**

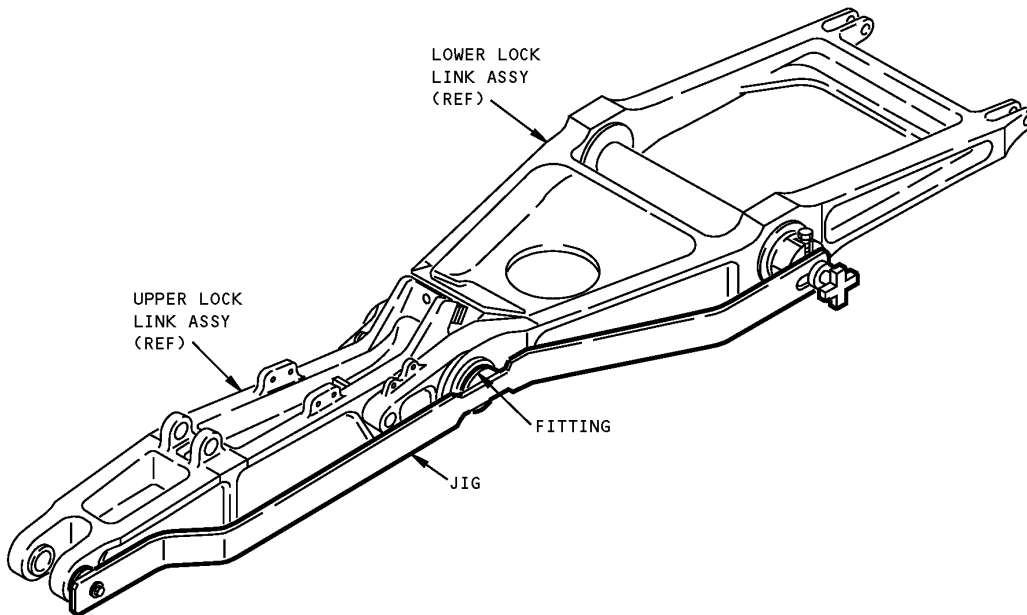
**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



A

**Main Landing Gear Axle Puller  
Figure 1 (Sheet 2 of 2)**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32086-1****NAME:** JIG - DOWNLOCK STOP SHIM ADJUSTMENT**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** YES**USAGE & DESCRIPTION:** The A32086-1 jig is used on 767-200, -200ER, -300, -300ER and -300F airplanes. A32086 is used to establish the main landing gear side strut overcenter stop. Refer to AMM 32-00-20 and CMM 32-11-70 for complete usage instructions. A32086-1 consists of: an A32086-2 jig assembly and an A32086-6 fitting contained in a storage box.**WEIGHT:** 5 lbs (2.3 kg)**DIMENSIONS:** 6 x 12 x 40 inches (152 x 305 x 1016 mm)

**Downlock Stop Shim Adjustment Jig  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A57001-1**

**NAME:** JIG EQUIPMENT - REAMING, TRUNNION SUPPORT, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

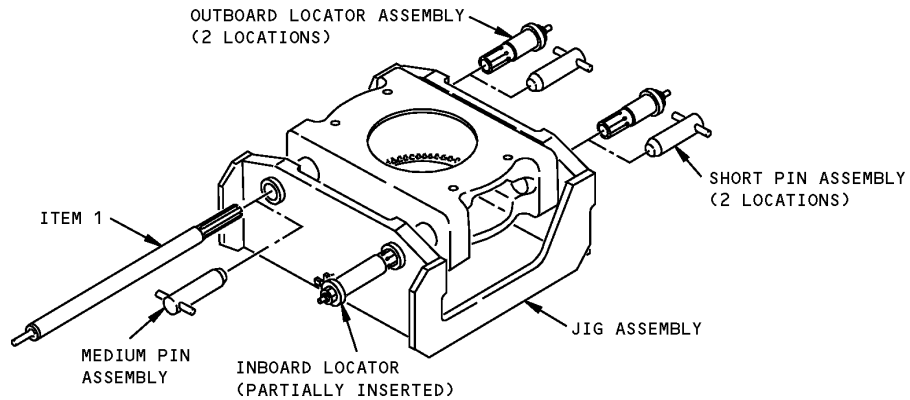
**USAGE & DESCRIPTION:** The A57001-1 jig equipment is used on 767-200 and -300 airplanes. A57001 is used to ream new fuse bolt bushings in the main landing gear trunnion "H" fitting and structure. Refer to CMM 57-54-33 for complete usage instructions. A57001-1 consists of:

A57001-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	JIG ASSEMBLY	A57001-2
1	REAMER	A57001-9
1	INBOARD LOCATOR	A57001-14
2	OUTBOARD LOCATOR	A57001-15
2	SHORT PIN ASSEMBLY	A57001-16
1	MEDIUM PIN ASSEMBLY	A57001-17
1	LONG PIN ASSEMBLY	A57001-18
1	STORAGE BOX	

**WEIGHT:** 95 lbs (43 kg)

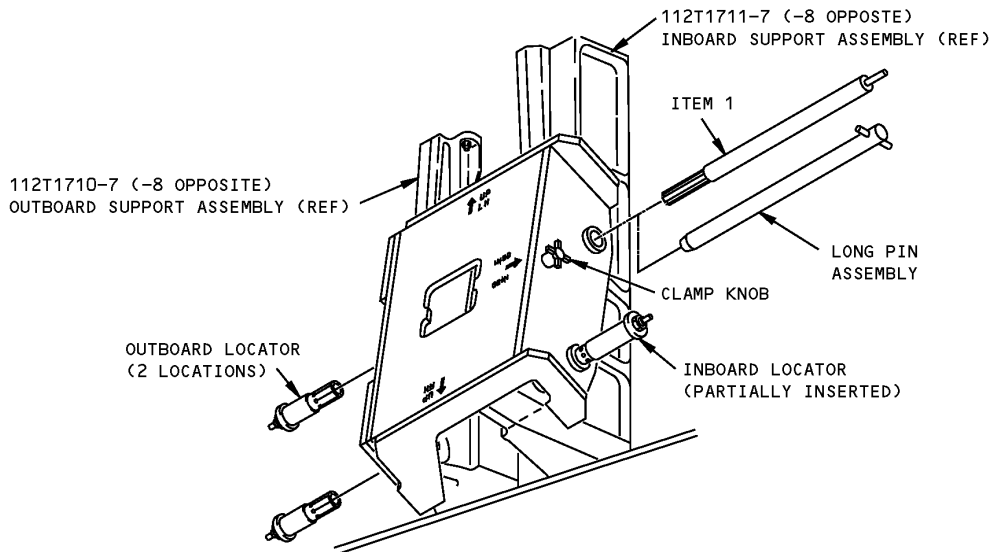
**DIMENSIONS:** 9 x 18 x 36 inches (229 x 457 x 914 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**REAMING OF HOUSING ASSEMBLY  
USAGE I**

**Main Landing Gear Trunnion Support Reaming, Jig Equipment  
Figure 1 (Sheet 1 of 2)**



**HOUSING SUPPORT REAMING  
USAGE II**

**Main Landing Gear Trunnion Support Reaming, Jig Equipment  
Figure 1 (Sheet 2 of 2)**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A57001-9	REAMER	V13130



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32089-1**

**NAME:** SWAGING FIXTURE - PISTON ROD, MAIN LANDING GEAR (MLG)

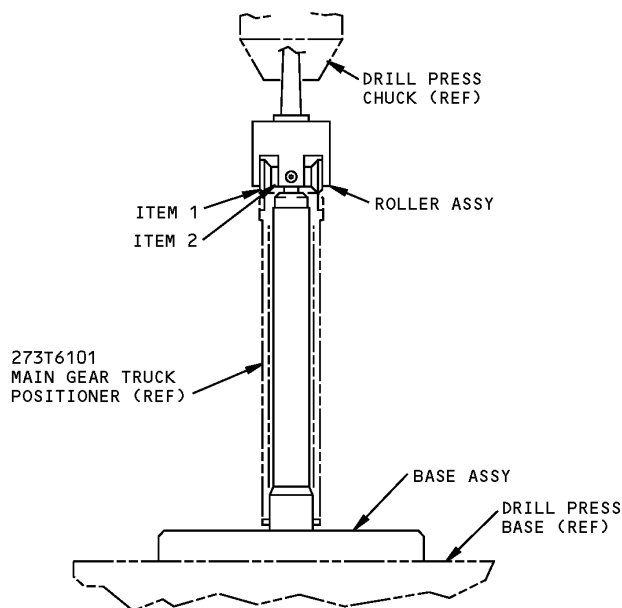
**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32089-1 swaging fixture is used on 767-200, -200ER, -300 and -300ER airplanes. A32089 is used to swage the ring on the end of MLG and to retract the actuator piston rod. Refer to the current A32089 drawing and CMM 32-32-55 for procedures. The A32089-1 consists of an A32089-2 base assembly and an A32089-3 roller assembly contained in a storage box.

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

**DIMENSIONS:** 9 x 9 x 20 inches (229 x 229 x 508 mm)



**Main Landing Gear Piston Rod Swaging Fixture  
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32089-7	ROLLER	
2	A32089-8	SHAFT	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32092-1**

**NAME:** GAGE EQUIPMENT - RIGGING, BRAKE QUADRANT, MAIN LANDING GEAR (MLG)

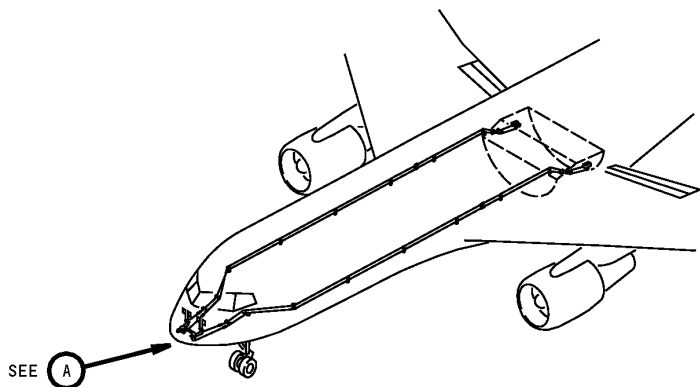
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32092-1 gage equipment is used on all 767 airplanes. A32092 is used to set the angular dimension between the brake bus cable quadrant and the brake pedal stops. Refer to AMM 32-41-00 for complete usage instructions. A32092-1 consists of an A32092-2 gage assembly and an A32092-3 gage assembly, both contained in a storage box.

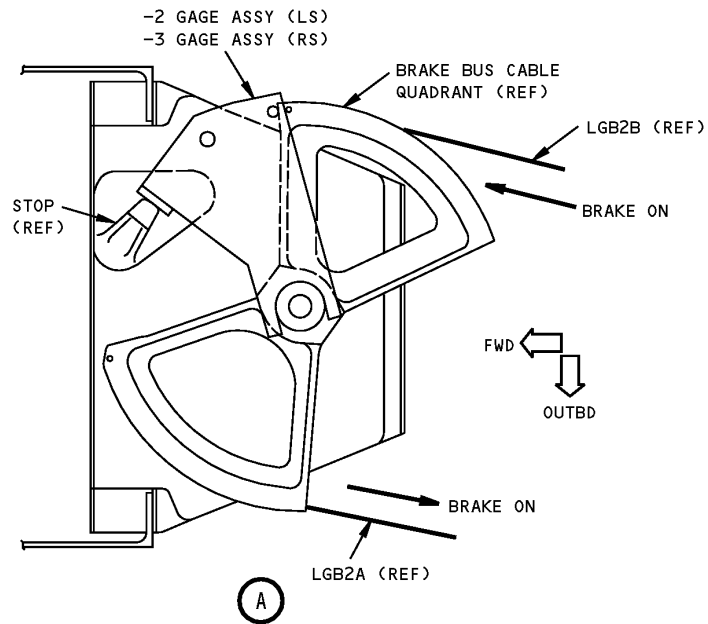
**WEIGHT:** 1 lb (0.5 kg)

**DIMENSIONS:** 2 x 4 x 5 inches (51 x 102 x 127 mm)



**MLG Brake Quadrant Rigging Gage Equipment  
Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**MLG Brake Quadrant Rigging Gage Equipment  
Figure 1 (Sheet 2 of 2)**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32095-1**

**NAME:** WRENCH - BEARING RETAINING BOLT, MAIN LANDING GEAR (MLG)

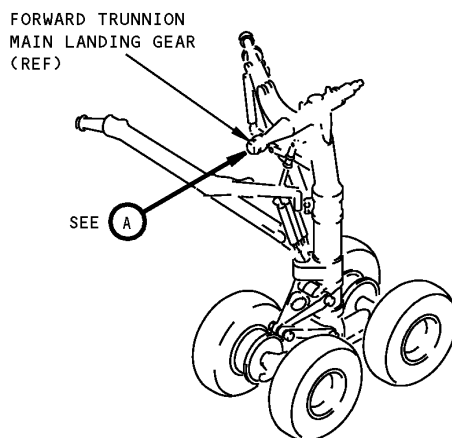
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32095-1 wrench is used on 767-200 and -300 airplanes. A32095 is used to tighten the forward bearing retaining bolt on the main landing gear. Refer to AMM 32-11-01 for complete usage instructions. A32095-1 consists of a A32095-2 wrench contained in a storage box.

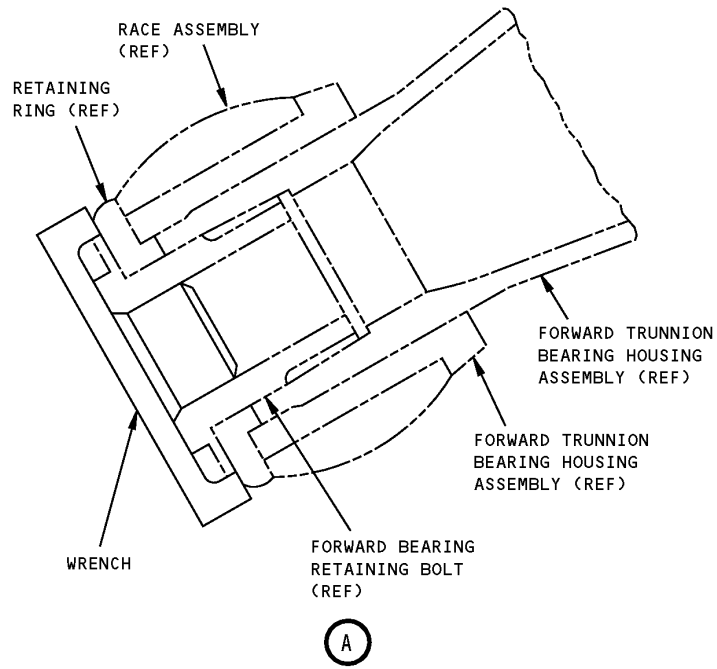
**WEIGHT:** 2 lbs (0.9 kg)

**DIMENSIONS:** 2 x 4 x 6 inches (51 x 102 x 152 mm)



**Main Landing Gear Bearing Retaining Bolt Wrench  
Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Bearing Retaining Bolt Wrench  
Figure 1 (Sheet 2 of 2)**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32098-1, -12**

**NAME:** PROTECTOR EQUIPMENT - AXLE, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

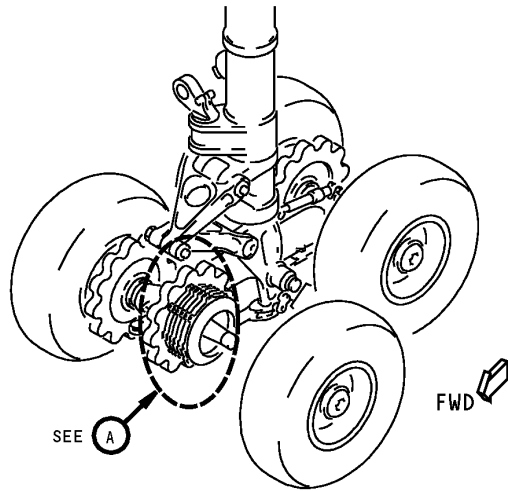
**USAGE & DESCRIPTION:** A32098 protector equipment is used on 767-200 and -300 airplanes. A32098-1 is a main landing gear (MLG) axle thread protector used on airplanes that have not had overhauled axles. A32098-12 is a main landing gear axle thread protector used on airplanes that have had overhauled axles and have undersized axle threads. A32098 -1 and -12 are used to protect the (MLG) axle and its external threads during wheel, brake and bearing maintenance. Refer to AMM 32-41-08 and AMM 32-45-01 for complete usage instructions. The A32098-1 equipment consists of a A32098-2 thread protector assembly and a A32098-3 axle protector assembly, both contained in a storage box. The A32098-12 equipment consists of a A32098-13 thread protector assembly and a A32098-3 axle protector assembly, both contained in a storage box.

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

**DIMENSIONS:** 6 dia x 16 inches (152 dia x 406 mm)

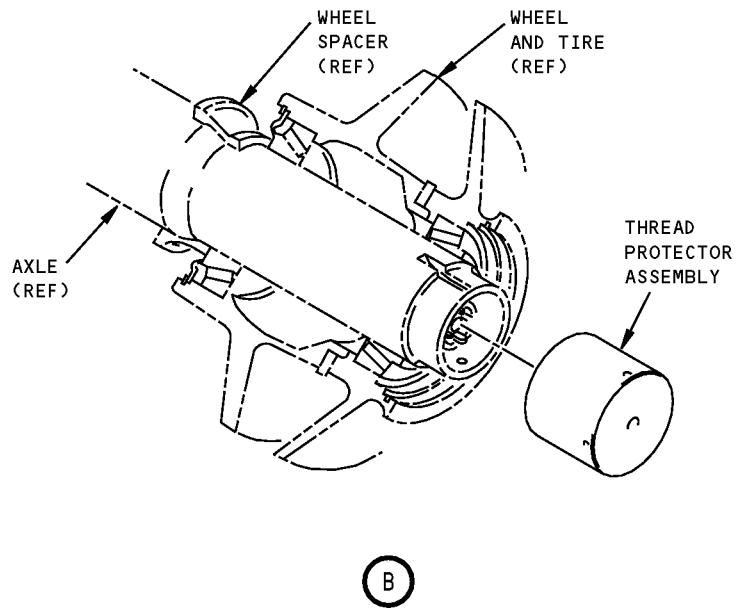
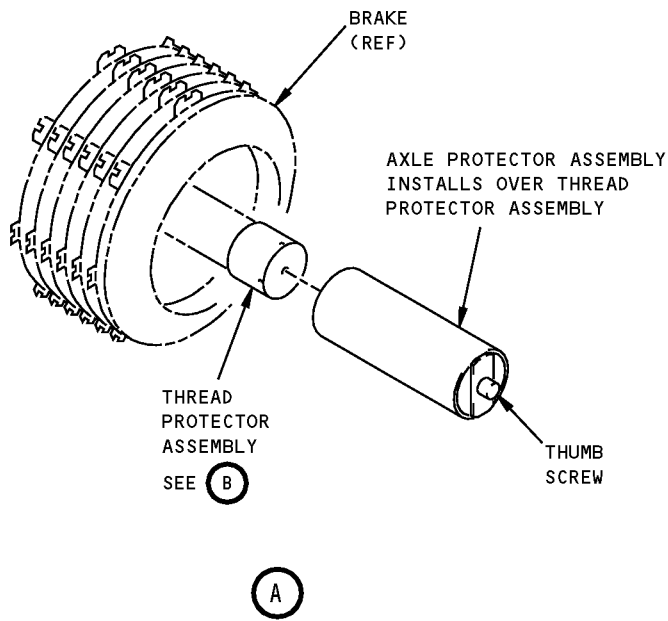
**NOTE:** A32098 replaces A32007 for future procurement.

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Axle Protector Equipment**  
**Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Axle Protector Equipment  
Figure 1 (Sheet 2 of 2)**





767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32099-38, -77, -78**

**NAME:** SPRING EXTENDER EQUIPMENT

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** A320099-77 is used on all 767 airplanes. A32099-38 is used on 767-400 airplanes only. A32099-78 is used on 767-200/-300 airplanes only. The A32099 spring extender equipment is used to extend the down lock spring during installation and removal on main and nose landing gear. All of the A32099 equipment consists of an extender assembly and various end fitting assemblies. The various A32099 end fitting assemblies are used on spring extender equipment is used in accordance with tables found in the A32099 drawing. Refer to AMM 32-21-09 and the current A32099 drawing for complete nose landing gear usage. Refer to AMM 32-32-03 and AMM 32-32-05, 32-21 and the current A32099 drawing for complete main landing gear usage. Refer to CMM 29-21-01, CMM 32-11-60 and CMM 32-21-54 for complete component maintenance manual usage. The A32099 spring extender equipment consists of:

<b>A32099-38</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	EXTENDER ASSEMBLY	A32099-39
1	END FITTING ASSEMBLY	A32099-40
1	END FITTING ASSEMBLY	A32099-41
1	END FITTING ASSEMBLY	A32099-42
1	END FITTING ASSEMBLY	A32099-43
1	END FITTING ASSEMBLY	A32099-64
1	END FITTING ASSEMBLY	A32099-65
1	SAFETY PIN	25-05 (stowed on -39)
1	STORAGE BOX	

<b>A32099-77</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	EXTENDER ASSEMBLY	A32099-39
1	END FITTING ASSEMBLY	A32099-40
1	END FITTING ASSEMBLY	A32099-41
1	END FITTING ASSEMBLY	A32099-42
1	END FITTING ASSEMBLY	A32099-43
1	END FITTING ASSEMBLY	A32099-64



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

A32099-77		
QUANTITY	NOMENCLATURE	PART NUMBER
1	END FITTING ASSEMBLY	A32099-65
1	END FITTING ASSEMBLY	A32099-70
1	END FITTING ASSEMBLY	A32099-71
1	END FITTING ASSEMBLY	A32099-82
1	END FITTING ASSEMBLY	A32099-83
1	SAFETY PIN	25-05
1	STORAGE BOX	

A32099-78		
QUANTITY	NOMENCLATURE	PART NUMBER
1	EXTENDER ASSEMBLY	A32099-79
1	END FITTING ASSEMBLY	A32099-4
1	END FITTING	A32099-5
1	END FITTING ASSEMBLY	A32099-80
1	END FITTING ASSEMBLY	A32099-81
1	END FITTING ASSEMBLY	A32099-8
1	END FITTING	A32099-9
1	SAFETY PIN	25-05 (stowed on -79)
1	STORAGE BOX	

**WEIGHT:**

A32099-38 - 26 lbs (12 kg)  
A32099-77 - 27 lbs (12 kg)  
A32099-78 - 12 lbs (5 kg)

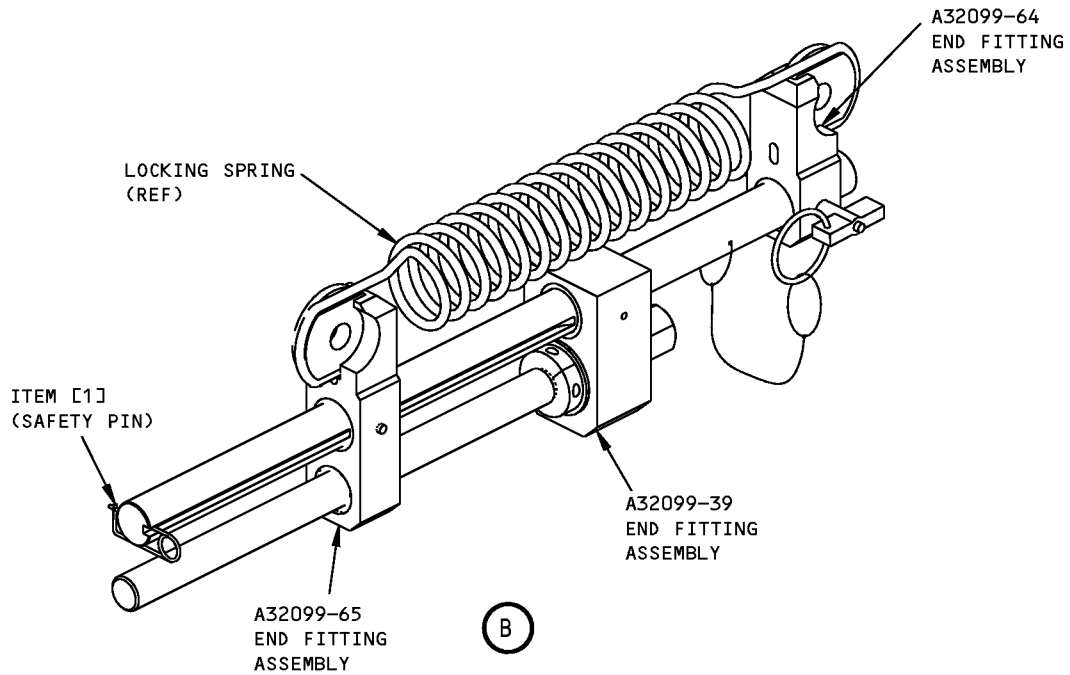
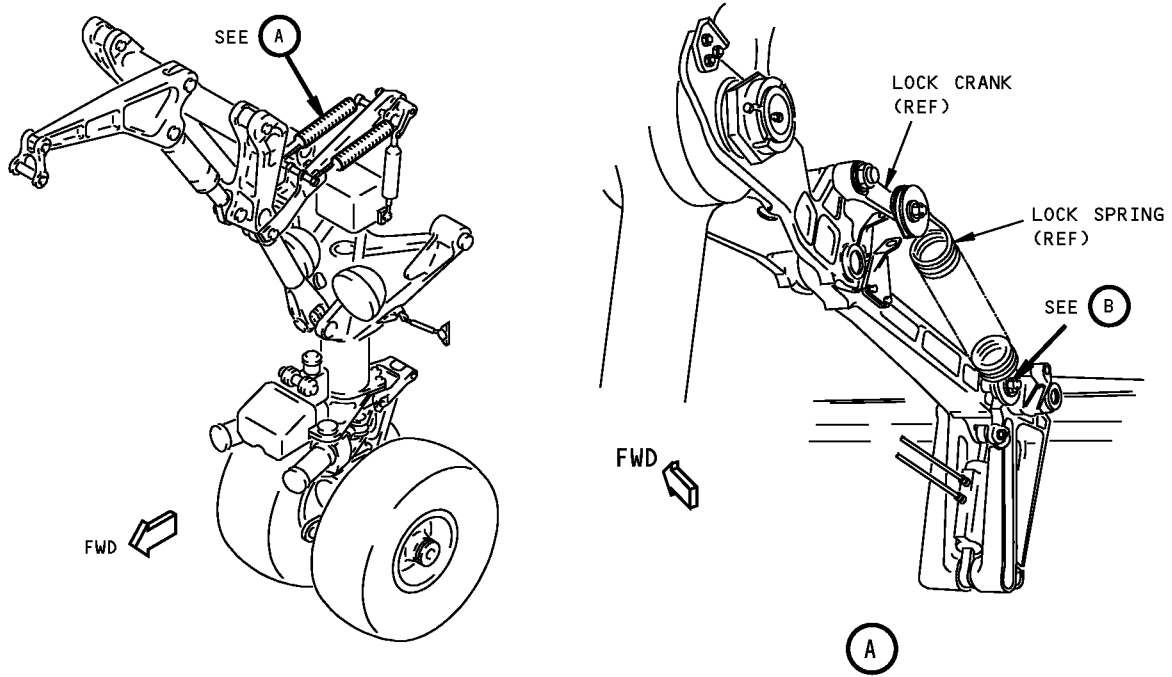
**DIMENSIONS:**

A32099-38, -77, -78 - 6 x 10 x 30 inches (152 x 254 x 762 mm)

**NOTE:**

A32099-77 is preferred for future procurement.  
A32099-77 replaces A32099-38 for future procurement.  
A32099-78 supersedes A32099-38 for 767-200 and -300 airplanes.  
A32099-78 supersedes A32099-25  
A32099 replaces A32002 and A32018 for future procurement on airplane production blocks V0001-V0205, V1001-V1043 and V2001-V2052.

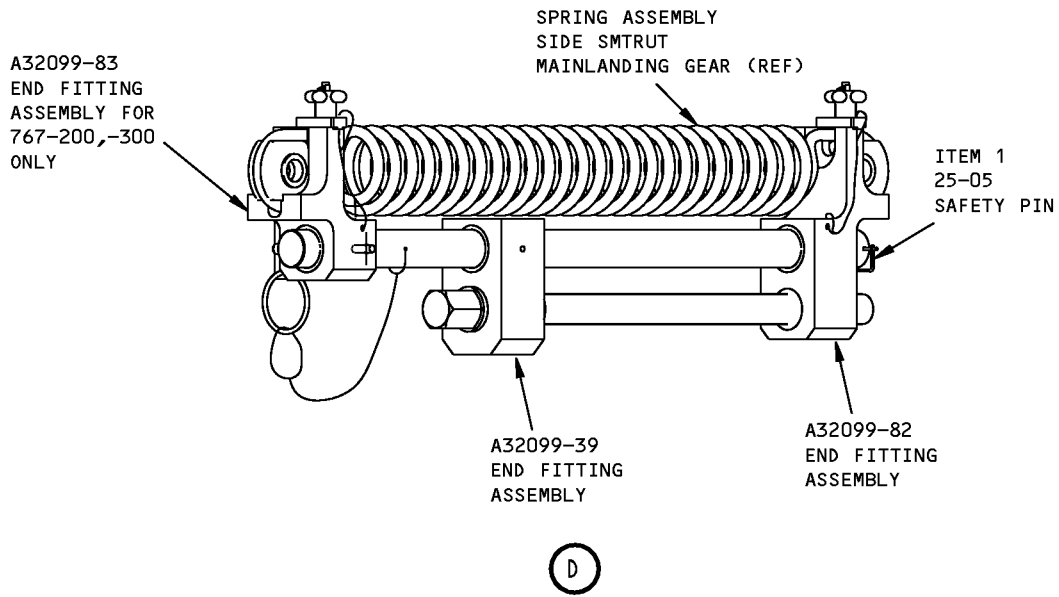
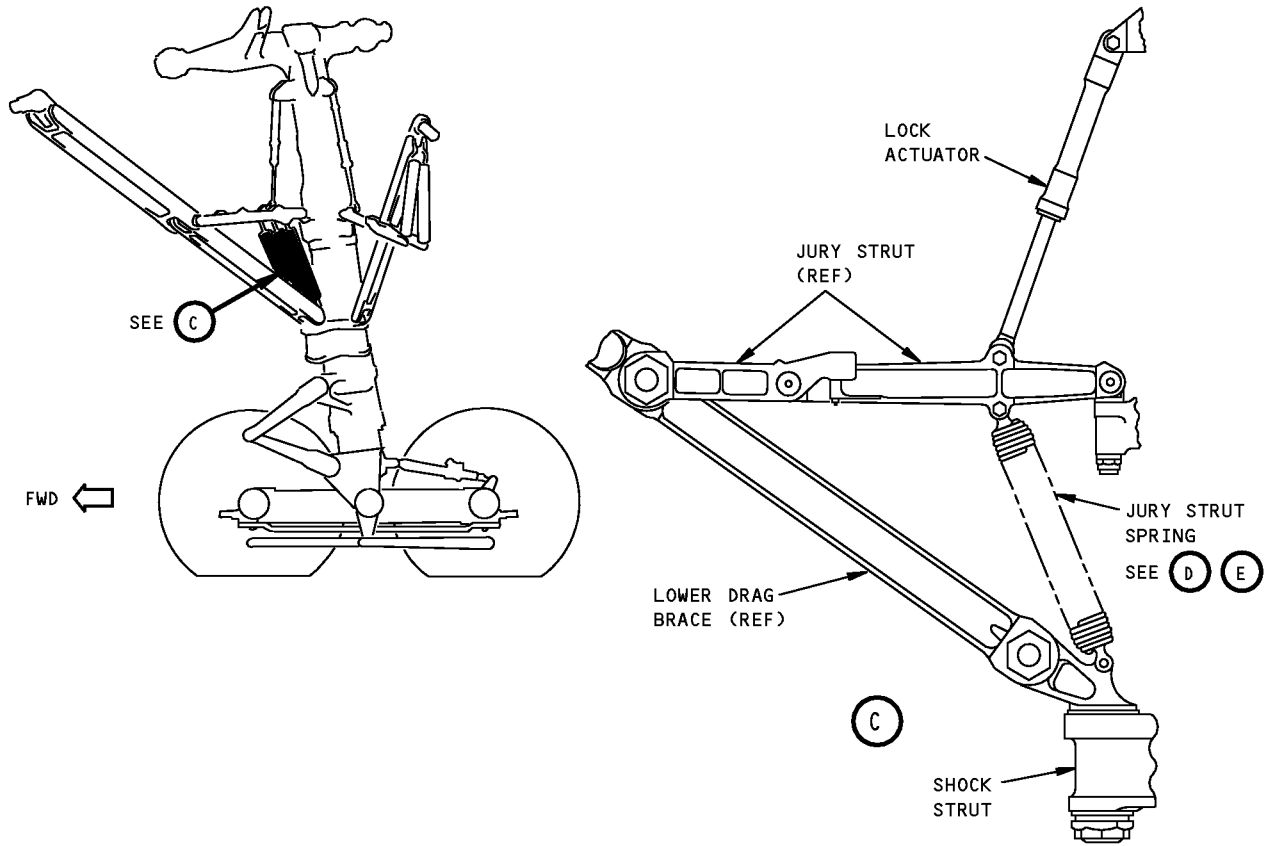
**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



D57405 S0000193731\_V2

**Spring Extender Equipment  
Figure 1 (Sheet 1 of 3)**

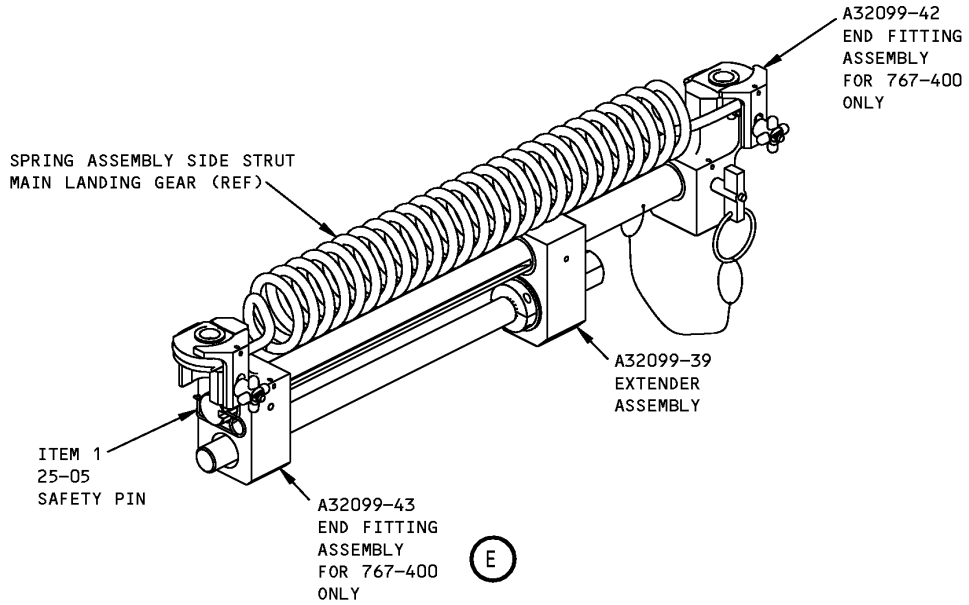
**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



D56011 S0000193732\_V2

**Spring Extender Equipment  
Figure 1 (Sheet 2 of 3)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



D56081 S0000193733\_V2

**Spring Extender Equipment  
Figure 1 (Sheet 3 of 3)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	25-05	SAFETY PIN	V7V765

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: J32060-1**

**NAME:** DRAIN EQUIPMENT - OLEO STRUT, MAIN LANDING GEAR (MLG)/NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** YES

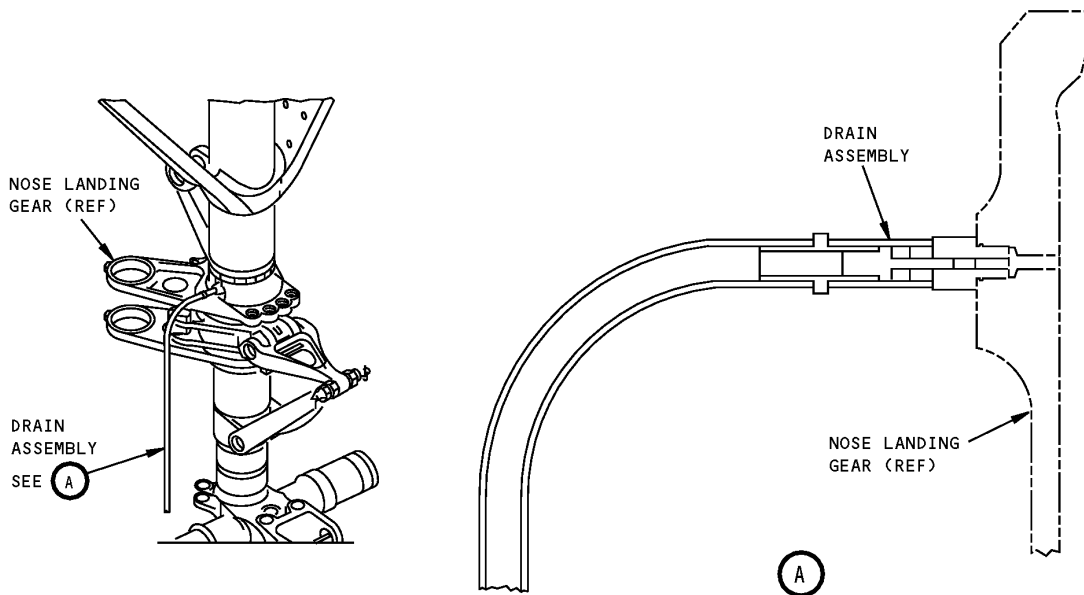
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The J32060-1 drain equipment is used on all 767 airplanes. J32060-1 is used to hold the oil fill valve open to drain oil from the main or nose landing gear. Use only on a completely deflated shock strut. Refer to CMM 32-41-25 for complete usage instructions. The J32060-1 consists of a J32060-2 drain assembly contained in a storage box.

**WEIGHT:** 3 lbs (1.4 kg)

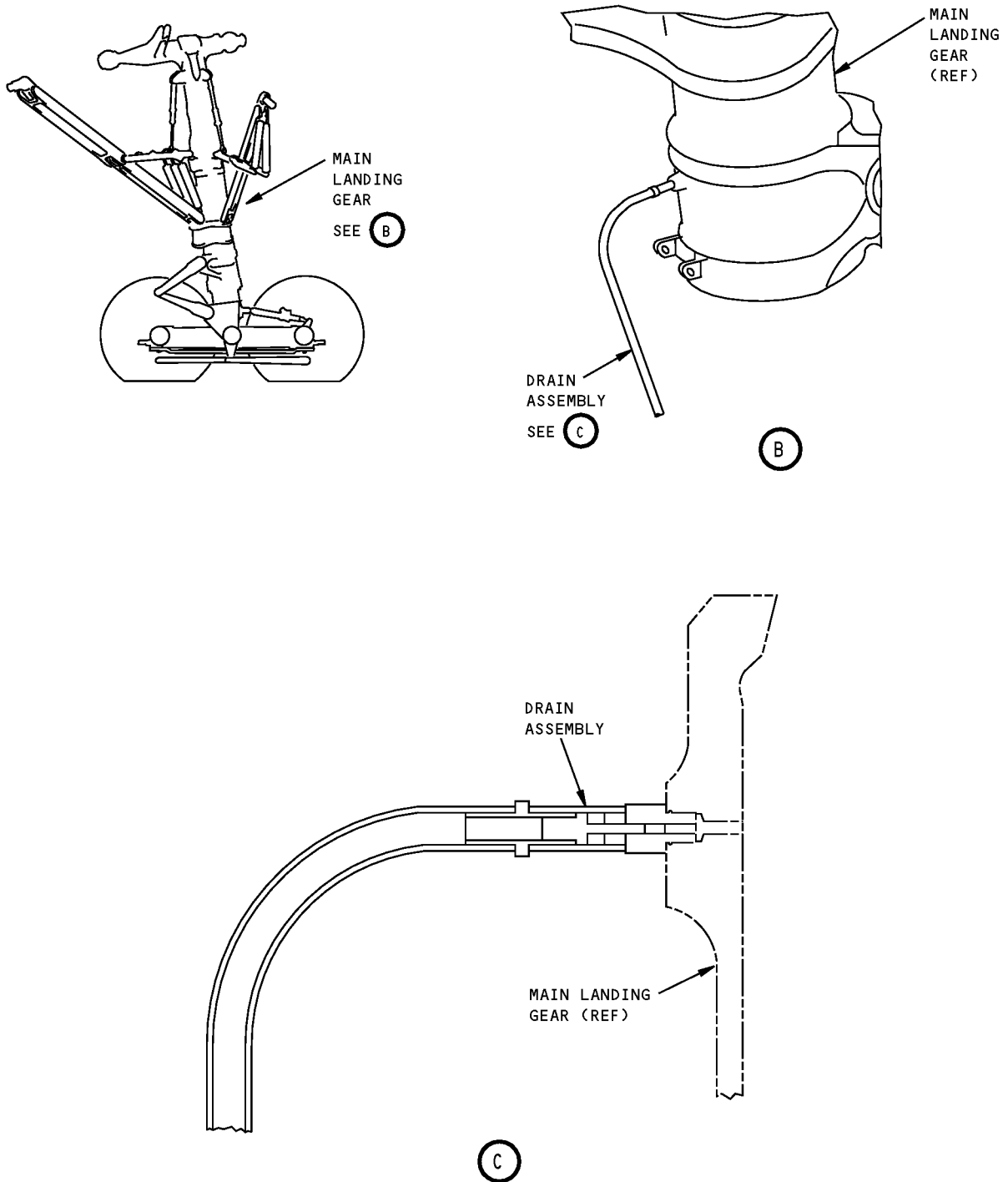
**DIMENSIONS:** 3 x 12 x 12 inches (76 x 305 x 305 mm)

**NOTE:** J32060-1 replaces A32066-1 for future procurement.



**Main Landing Gear/Nose Landing Gear Oleo Strut Drain Equipment  
Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear/Nose Landing Gear Oleo Strut Drain Equipment  
Figure 1 (Sheet 2 of 2)**

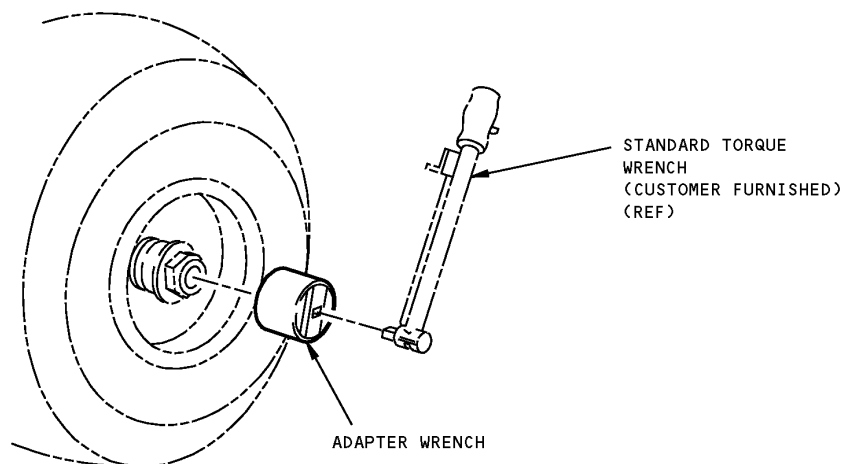
## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: MIT65B01202-1****NAME:** ADAPTER ASSEMBLY WRENCH - LANDING GEAR WHEEL RETAINING NUT**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The MIT65B01202-1 adapter assembly is used on 767-400 airplanes. MIT65B01202-1 is used to install and remove the wheel bearing retaining nut on the main gear wheels. Refer to AMM 32-45-01 for complete usage instructions. The MIT65B01202-1 tool consists of a steel socket with a 7 inch outside diameter for use on the 5.5 inch hexagonal wheel bearing retaining nut. The socket has a 0.75 inch drive socket to accommodate the use of a standard torque wrench for torquing the wheel nut to a maximum value of 250 ft-lbs.

**DIMENSIONS:** 7 dia x 4 inches (178 x 102 mm)

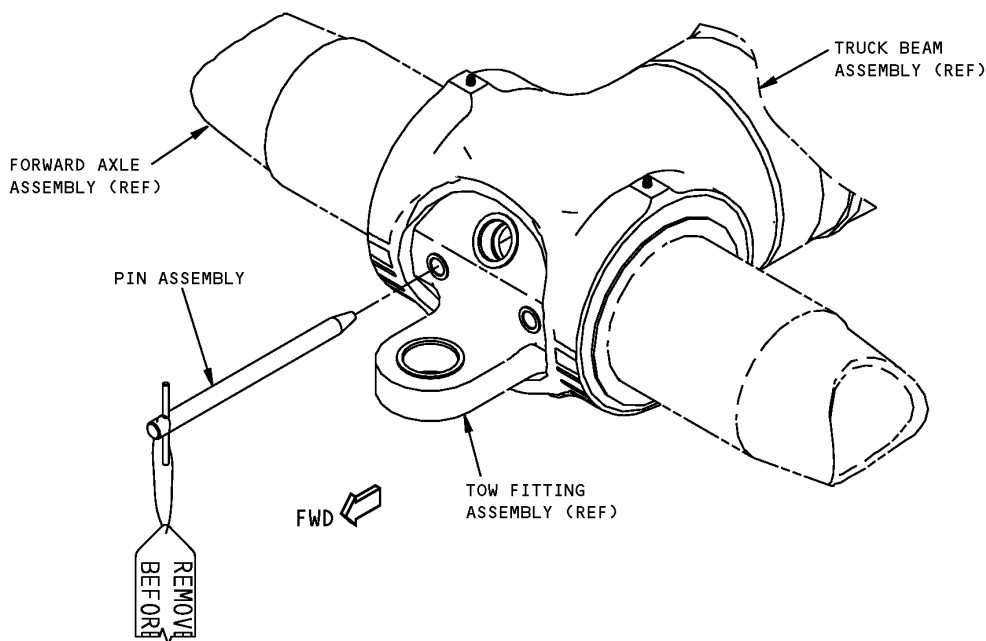
**NOTE:** J32032 replaces MIT65B01202-1 for future procurement.



**Landing Gear Wheel Retaining Nut Adapter Assembly Wrench  
Figure 1**



## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: J32065-1****NAME:** ALIGNMENT PIN - MAIN LANDING GEAR (MLG) TOW FITTING**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** NO**USAGE & DESCRIPTION:** The J32065-1 alignment pin is used on 767-400 airplanes. J32065 is used to align the tow fitting mounting holes with the holes in the forward axle and the truck beam during installation. Refer to AMM 32-45-01 for complete usage instructions. J32065-1 consists of a J32065-2 pin assembly contained in a storage box.**WEIGHT:** 2 lbs (0.9 kg)**DIMENSIONS:** 4 x 12 inches (102 x 305 mm)

**Main Landing Gear Tow Fitting Alignment Pin  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32106-1**

**NAME:** SHOCK STRUT EQUIPMENT - COMPONENT MAINTENANCE, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

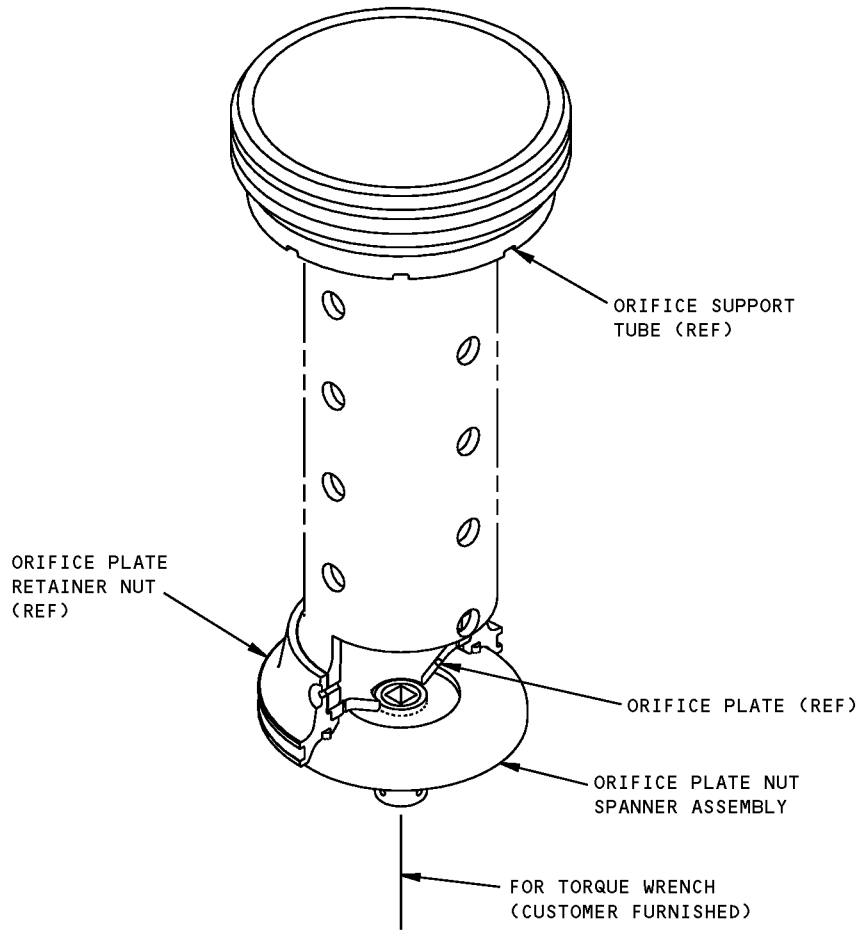
**USAGE & DESCRIPTION:** The A32106-1 shock strut equipment is used on 767-400 airplanes. A32106 is used for the removal and installation of the shock strut internal components. Refer to CMM 32-11-33 for further usage instructions. A32106-1 consists of:

A32106-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	OUTER CYLINDER SPANNER ASSEMBLY	A32106-2
1	INNER CYLINDER SPANNER ASSEMBLY	A32106-3
1	ORIFICE PLATE NUT SPANNER ASSEMBLY	A32106-4
1	INSTALLATION ROD ASSEMBLY	A32106-5
1	EXTENSION ROD ASSEMBLY	A32106-6
1	STORAGE BOX	

**WEIGHT:** 70 lbs (32 kg)

**DIMENSIONS:** 16 x 24 x 96 inches (406 x 610 x 2438 mm)

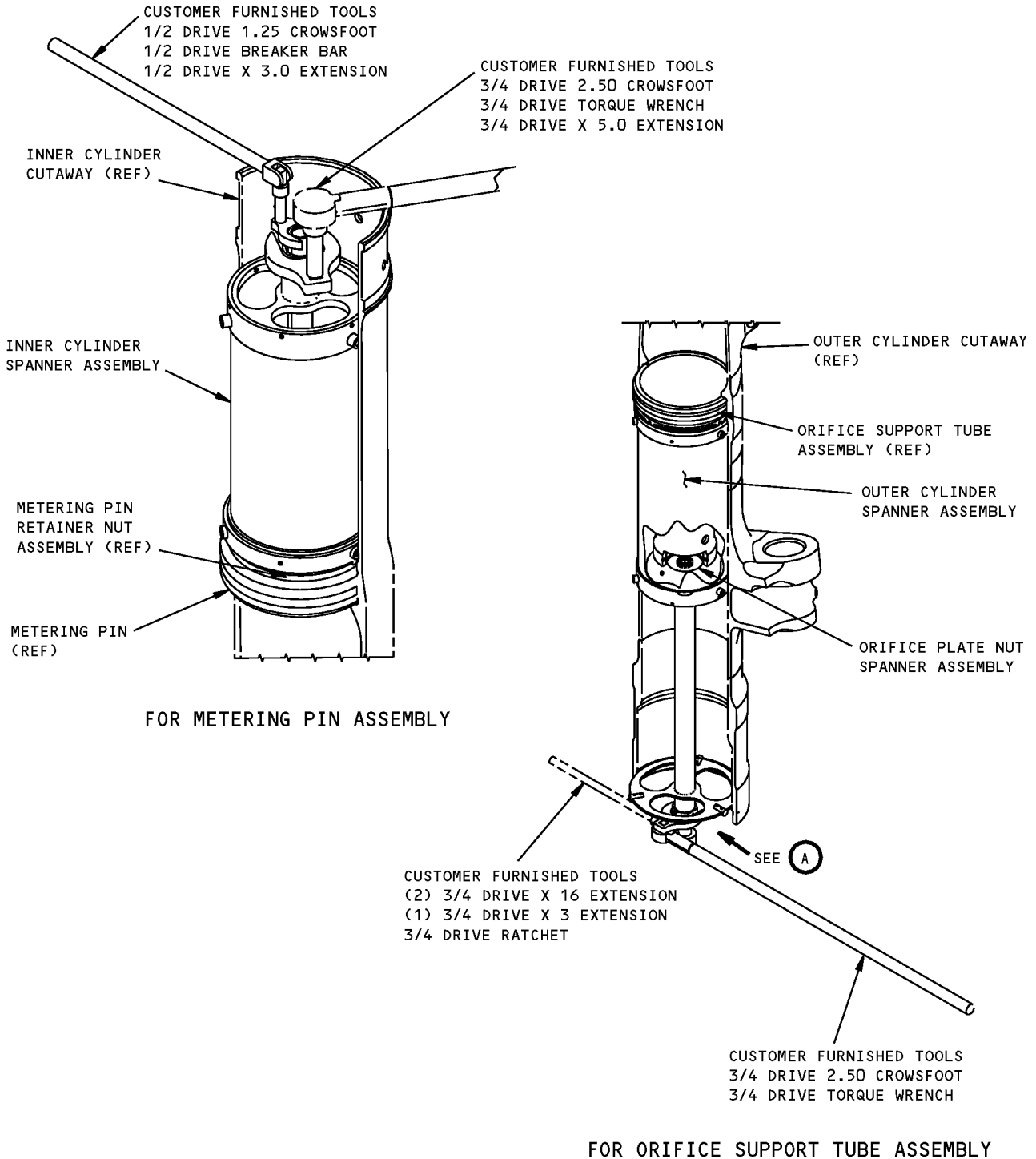
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



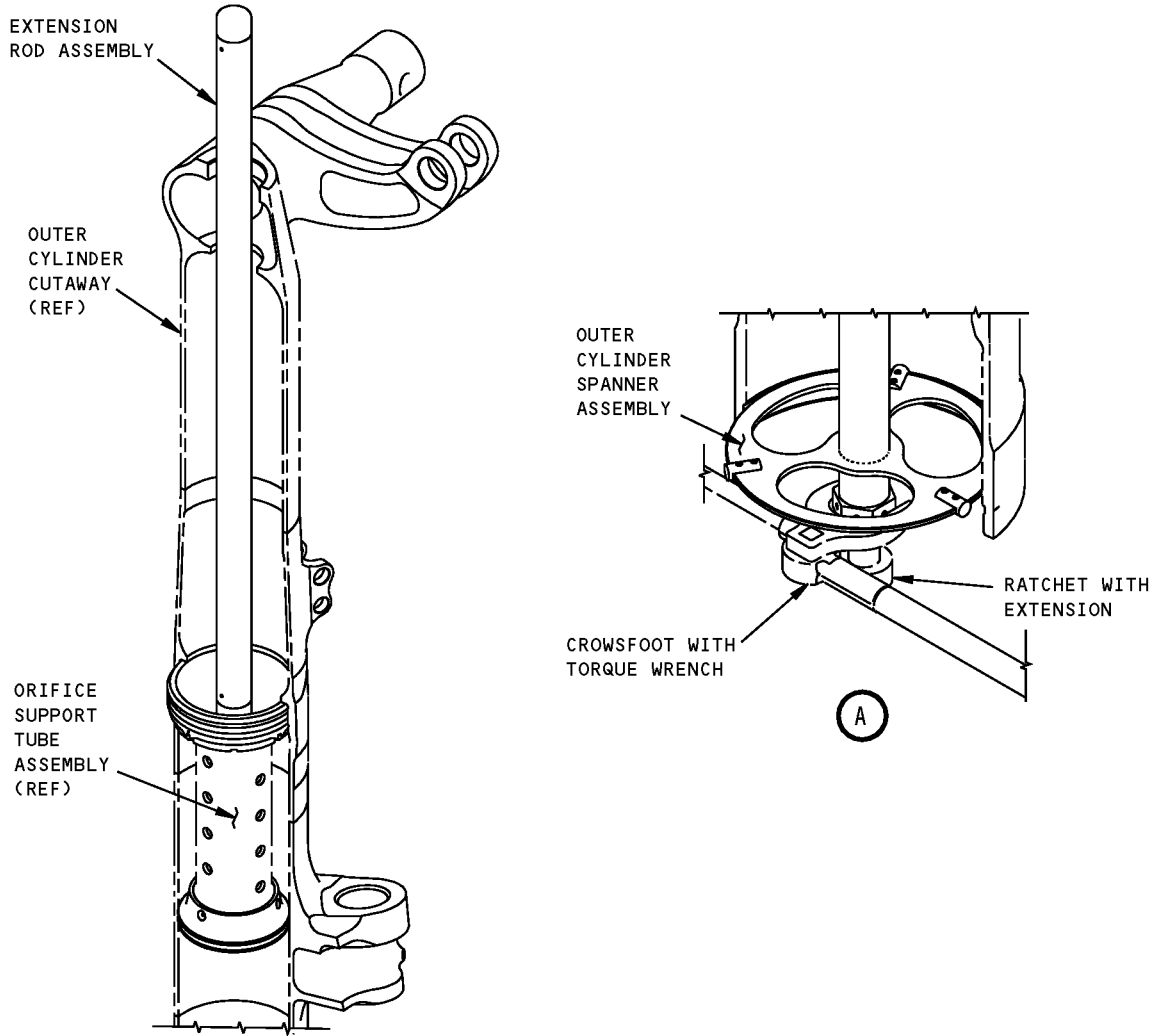
FOR ORIFICE PLATE RETAINER NUT

**Main Landing Gear Component Maintenance Shock Strut Equipment  
Figure 1 (Sheet 1 of 4)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



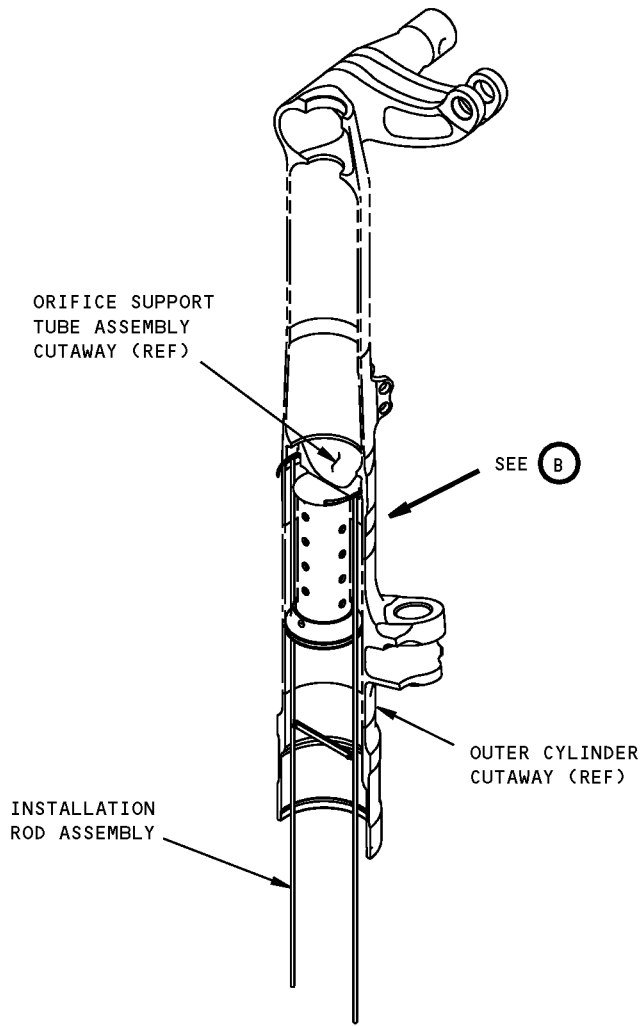
**Main Landing Gear Component Maintenance Shock Strut Equipment  
 Figure 1 (Sheet 2 of 4)**



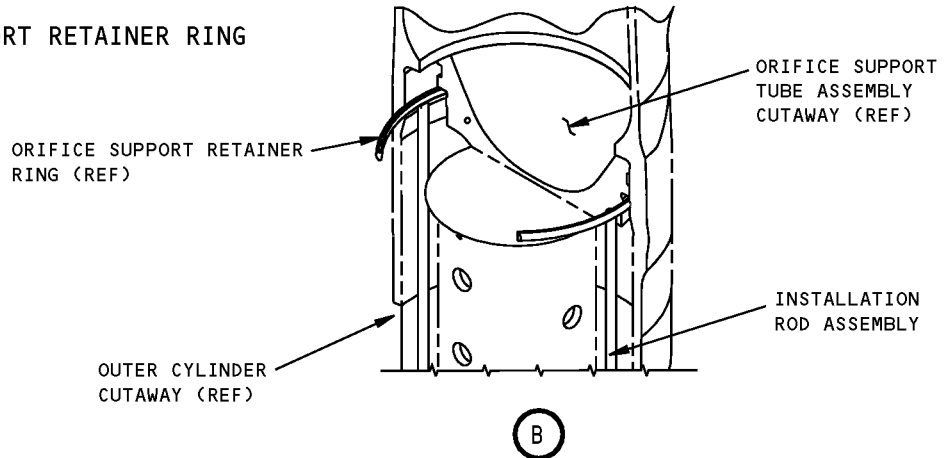
FOR ORIFICE SUPPORT TUBE REMOVAL

Main Landing Gear Component Maintenance Shock Strut Equipment  
Figure 1 (Sheet 3 of 4)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



FOR ORIFICE SUPPORT RETAINER RING



**Main Landing Gear Component Maintenance Shock Strut Equipment  
Figure 1 (Sheet 4 of 4)**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: J32010-58, -62**

**NAME:** PULLER EQUIPMENT - WHEEL AND BRAKE SLEEVES, MAIN LANDING GEAR (MLG) AXLES

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The J32010-58 or -62 puller equipment is used on 767-400 airplanes. J32010 is used to remove the wheel and brake sleeves on the main landing gear axles. Refer to AMM 32-11-27 and AMM 32-11-28 for complete usage instructions. J32010-58 and -62 consist of:

J32010-58		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PULLER ASSEMBLY	J32010-49
1	WHEEL SLEEVE COLLAR ASSEMBLY	J32010-59
1	BRAKE SLEEVE COLLAR ASSEMBLY	J32010-52
1	PIN POPPER ASSEMBLY	J32010-7
2	SHORT EXTENSION ASSEMBLY	J32010-37
2	LONG EXTENSION ASSEMBLY	J32010-38
2	LOCK PIN SET	MZ-4013
1	STORAGE BOX	

J32010-62		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PULLER ASSEMBLY	J32010-49
1	WHEEL SLEEVE COLLAR ASSEMBLY	J32010-59
1	BRAKE SLEEVE COLLAR ASSEMBLY	J32010-52
1	PIN POPPER ASSEMBLY	J32010-7
2	SHORT EXTENSION ASSEMBLY	J32010-63
2	LONG EXTENSION ASSEMBLY	J32010-64
2	LOCK PIN SET	MZ-4013
1	STORAGE BOX	

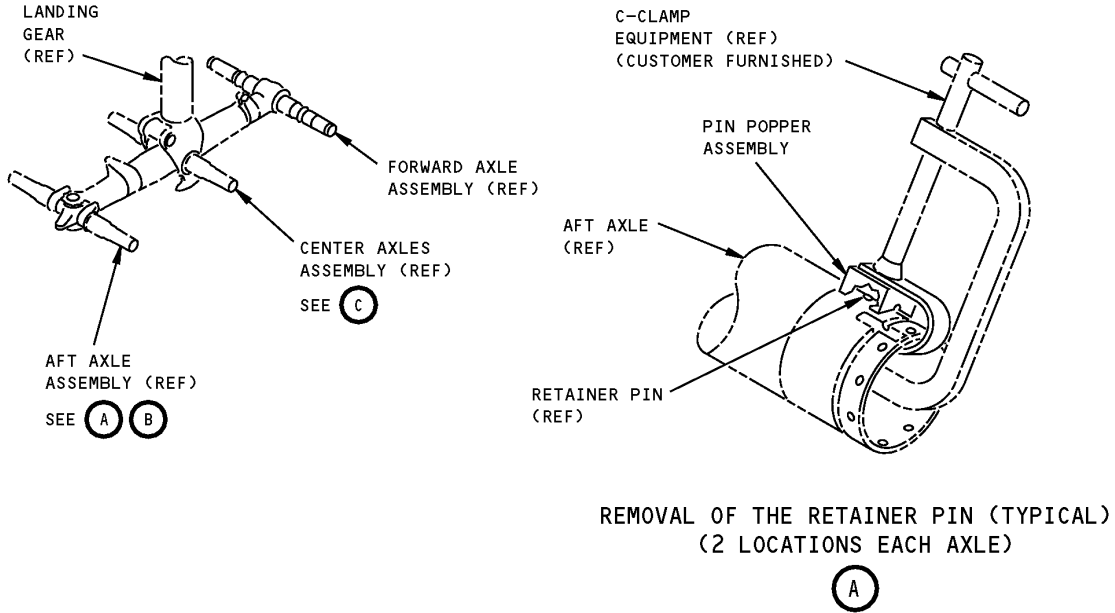
**WEIGHT:** J32010-58 - 53 lbs (24 kg)  
J32010-62 - 54 lbs (24 kg)

**DIMENSIONS:** 9 x 16 x 50 inches (229 x 406 x 1270 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**NOTE:**

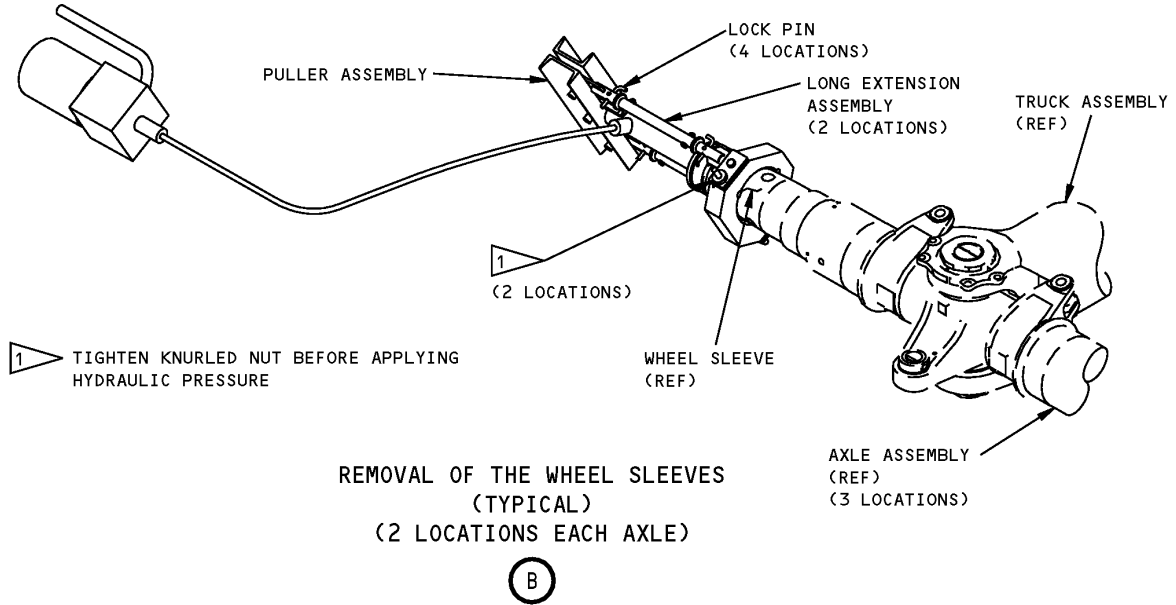
J32010-62 replaces J32010-58 for future procurement.  
J32010-58 supersedes J32010-48.



**Main Landing Gear Axles Wheel and Brake Sleeves Puller Equipment  
Figure 1 (Sheet 1 of 3)**

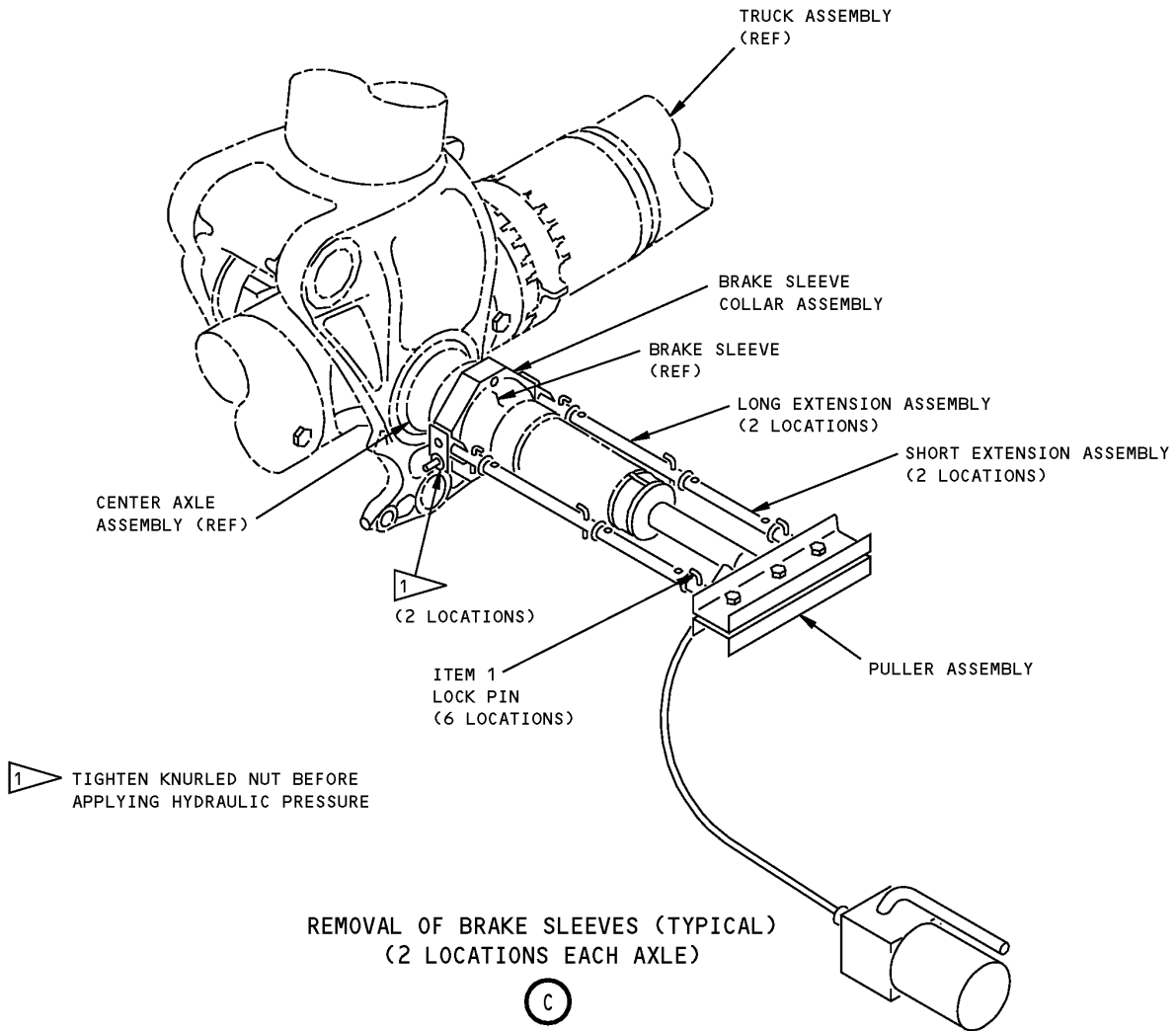


**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Axles Wheel and Brake Sleeves Puller Equipment  
Figure 1 (Sheet 2 of 3)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Axles Wheel and Brake Sleeves Puller Equipment**  
**Figure 1 (Sheet 3 of 3)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MZ-4013	LOCK PIN SET	V26952



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32111-1**

**NAME:** RIGGING TUBE EQUIPMENT - SIDE STRUT, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

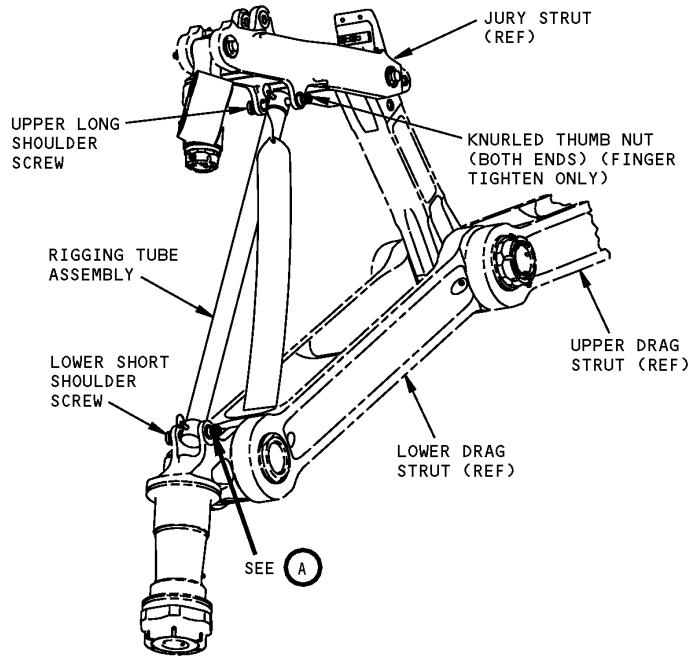
**USAGE & DESCRIPTION:** The A32111-1 rigging tube equipment is used on 767-400 airplanes. A32111 is used to move load from the side strut to the drag strut and is used to position the drag strut during side strut rigging. Refer to AMM 32-11-03, AMM 32-11-10, AMM 32-11-11 and AMM 32-11-12 for complete usage instructions. A32111-1 consists of:

A32111-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	RIGGING TUBE ASSEMBLY	A32111-2
1	UPPER LONG SHOULDER SCREW	A32111-3
1	LOWER LONG SHOULDER SCREW	A32111-4
4	CENTERING SLUG	A32111-5
2	KNURLED THUMB KIT	67316SS1
1	STORAGE BOX	

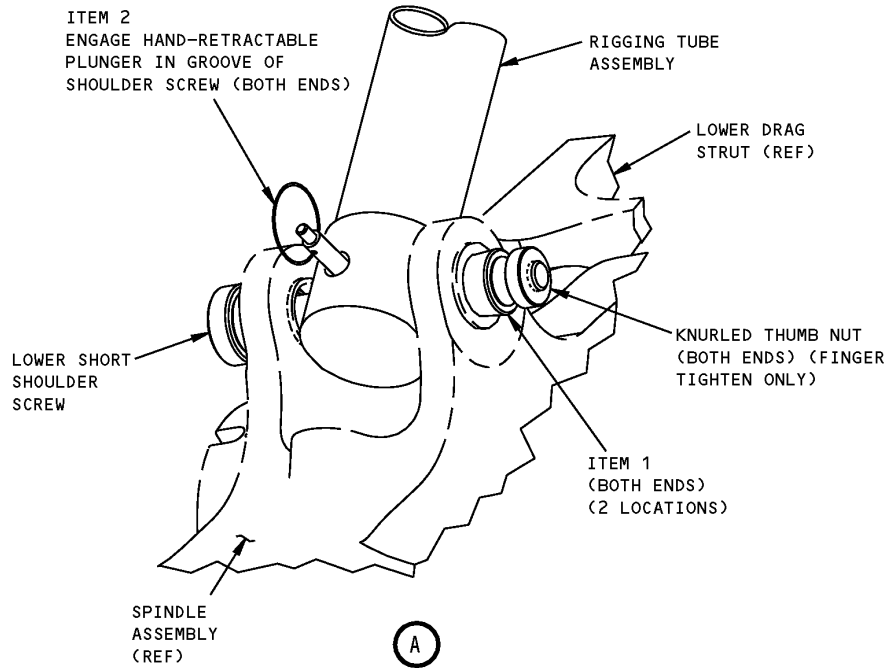
**WEIGHT:** 7 lbs (3.2 kg)

**DIMENSIONS:** 2 x 2 x 34 inches (51 x 51 x 864 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Side Strut Rigging Tube Equipment  
Figure 1 (Sheet 1 of 2)**



**Main Landing Gear Side Strut Rigging Tube Equipment  
Figure 1 (Sheet 2 of 2)**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32111-5	CENTERING SLUG	
2	CL-4-PHRP-S	HAND RETRACTABLE PLUNGER	V99862



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32116-1**

**NAME:** REMOVAL EQUIPMENT - MAIN LANDING GEAR (MLG) BOGIE PIVOT PIN

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

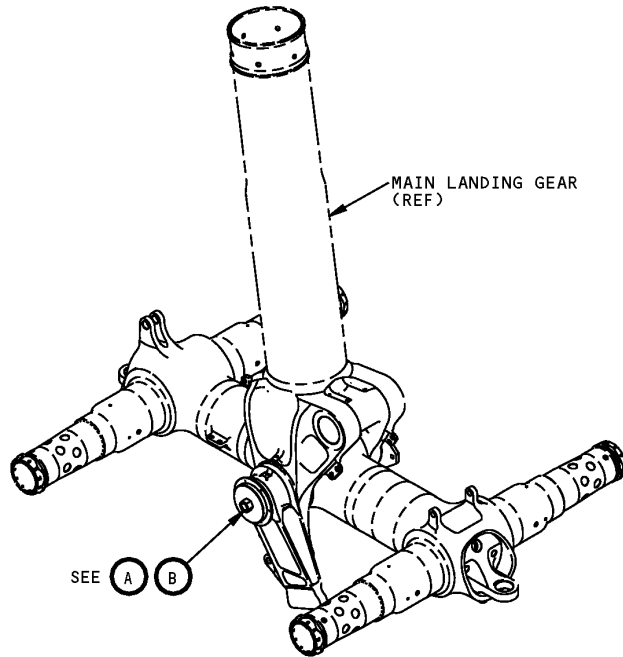
**USAGE & DESCRIPTION:** The A32016-1 removal equipment is used on 767-400ER airplanes. A32016 is used to remove the nut and the bogie pivot pin (use drift pin for tapping pin out with a soft hammer when required). Refer to AMM 31-11-19 and CMM 32-11-36 for complete usage instructions. A32016-1 consists of:

A32016-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	HUB ASSEMBLY	A32016-2
1	CROWFOOT	A32016-3
1	DRIFT PIN	A32016-4
1	STORAGE BOX	

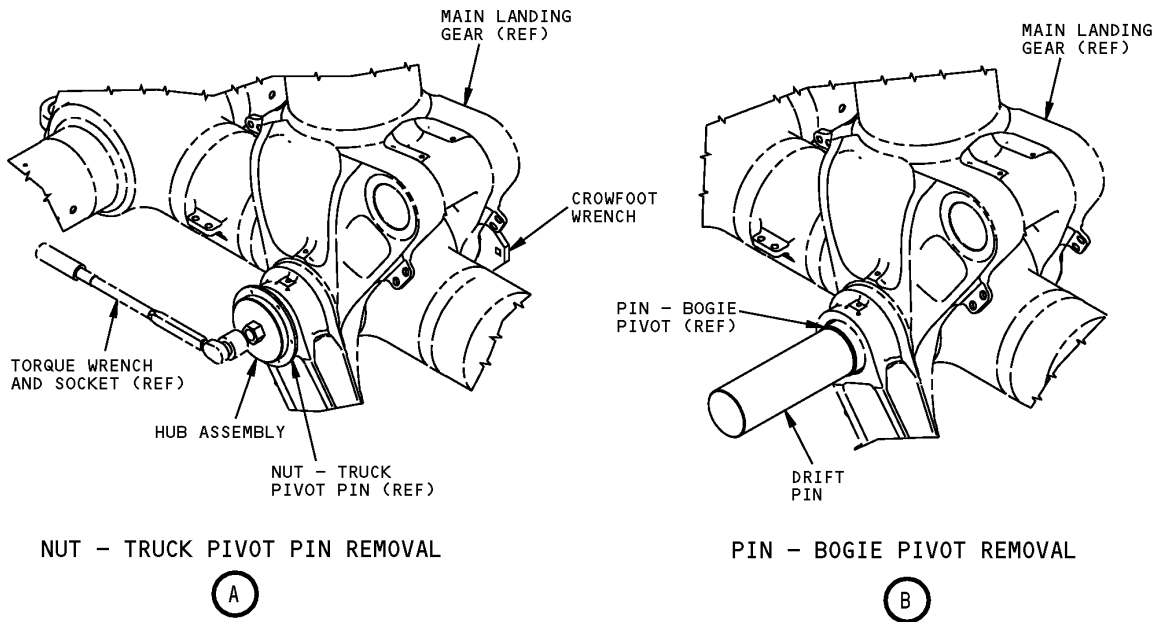
**WEIGHT:** 17 lbs (8 kg)

**DIMENSIONS:** 5 x 10 x 14 inches (127 x 254 x 356 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Bogie Pivot Pin Removal Equipment  
Figure 1 (Sheet 1 of 2)**



**Main Landing Gear Bogie Pivot Pin Removal Equipment  
Figure 1 (Sheet 2 of 2)**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32108-1, -2**

**NAME:** SLING EQUIPMENT - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32108-1 or -2 sling equipment is used on 767-400 airplanes. The A32108-1 is available for airline customers that do not have an "A32006 main landing gear retract actuator sling equipment". The A32108-2 is used with the "A32006 sling equipment". A32108 is used to remove and install the landing gear retract actuator. The A32006-4 beam assembly, A32006-5 outboard frame assembly and A32006-6 inboard frame assembly is used in conjunction with the A32108-3 clamp assembly and A32108-4 boom assembly. Refer to AMM 32-11-01, AMM 32-32-01, and current A32108 drawing for additional usage instructions. A32108-1 and -2 consist of:

A32108-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	CLAMP ASSEMBLY	A32108-3
1	BOOM ASSEMBLY	A32108-4
1	BEAM ASSEMBLY	A32108-5
1	OUTBOARD FRAME ASSEMBLY	A32108-6
1	INBOARD FRAME ASSEMBLY	A32108-7
1	STORAGE BOX	

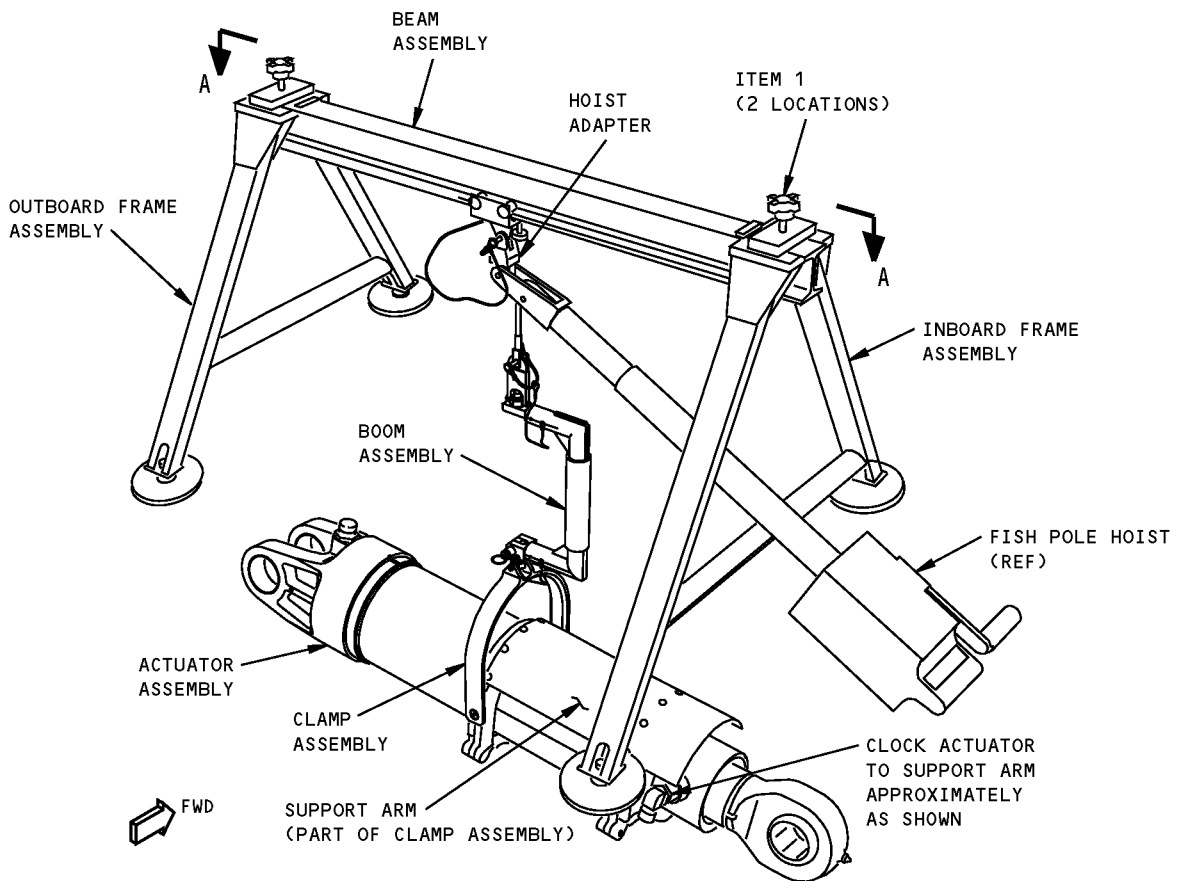
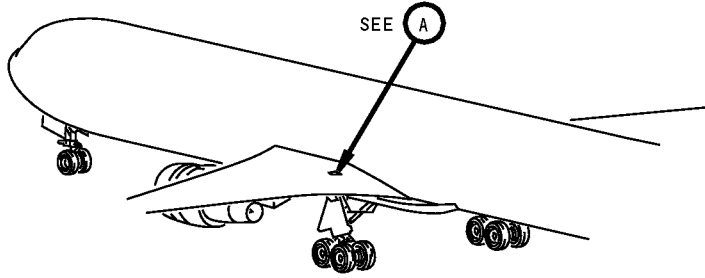
A32108-2		
QUANTITY	NOMENCLATURE	PART NUMBER
1	CLAMP ASSEMBLY	A32108-3
1	BOOM ASSEMBLY	A32108-4
1	STORAGE BOX	

**WEIGHT:** A32108-1 - 50 lbs (23 kg)  
A32108-2 - 125 lbs (57 kg)

**DIMENSIONS:** A32108-1 - 20 x 38 x 50 inches (508 x 965 x 1270 mm)  
A32108-2 - 20 x 30 x 30 inches (508 x 762 x 762 mm)



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

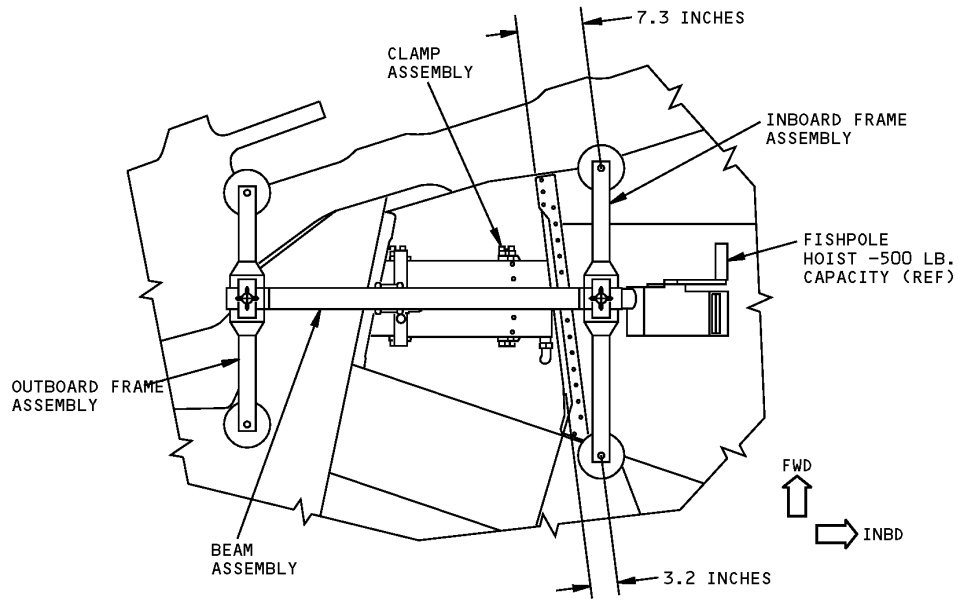


**SLING EQUIPMENT PARTS**

**A**

**Main Landing Gear Retract Actuator Sling Equipment  
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



A-A

Main Landing Gear Retract Actuator Sling Equipment  
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-5A-HK4T	HAND KNOB ASSEMBLY	V99862



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32104-1**

**NAME:** PULLER EQUIPMENT - FUSE PIN, FORWARD TRUNNION, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

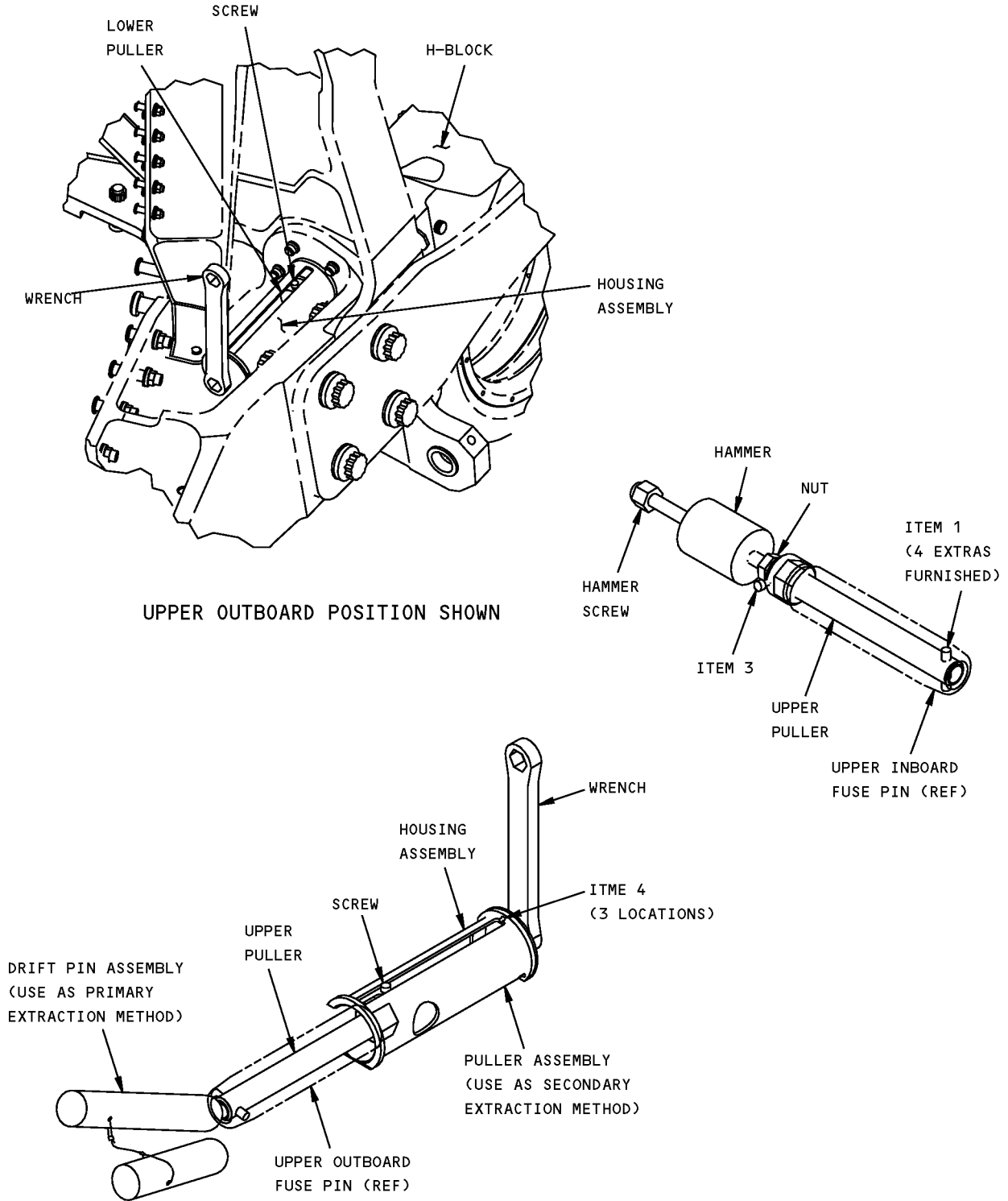
**USAGE & DESCRIPTION:** A32104-1 puller equipment is used on 767-400 airplanes. A32104 is used to remove fuse bolts from the main landing gear forward trunnion support housing. Refer to AMM 32-11-01 and CMM 32-11-33 for complete usage instructions. A32104-1 consists of:

A32104-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	HOUSING ASSEMBLY	A32104-2
1	LOWER PULLER	A32104-3
1	UPPER PULLER	A32104-4
10	SHORT PULL-OUT PIN	A32104-5
5	LONG PULL-OUT PIN	A32104-6
2	LOWER DUMMY FUSE PIN	A32104-7
1	UPPER DUMMY FUSE PIN	A32104-8
5	SCREW	A32104-9
1	DRIFT PIN ASSEMBLY	A32104-10
2	HAMMER SCREW	A32104-11
2	HAMMER	CG240-9
2	FLANGE NUT	CL-127
1	WRENCH	GR16185
1	STORAGE BOX	

**WEIGHT:** 18 lbs (8 kg)

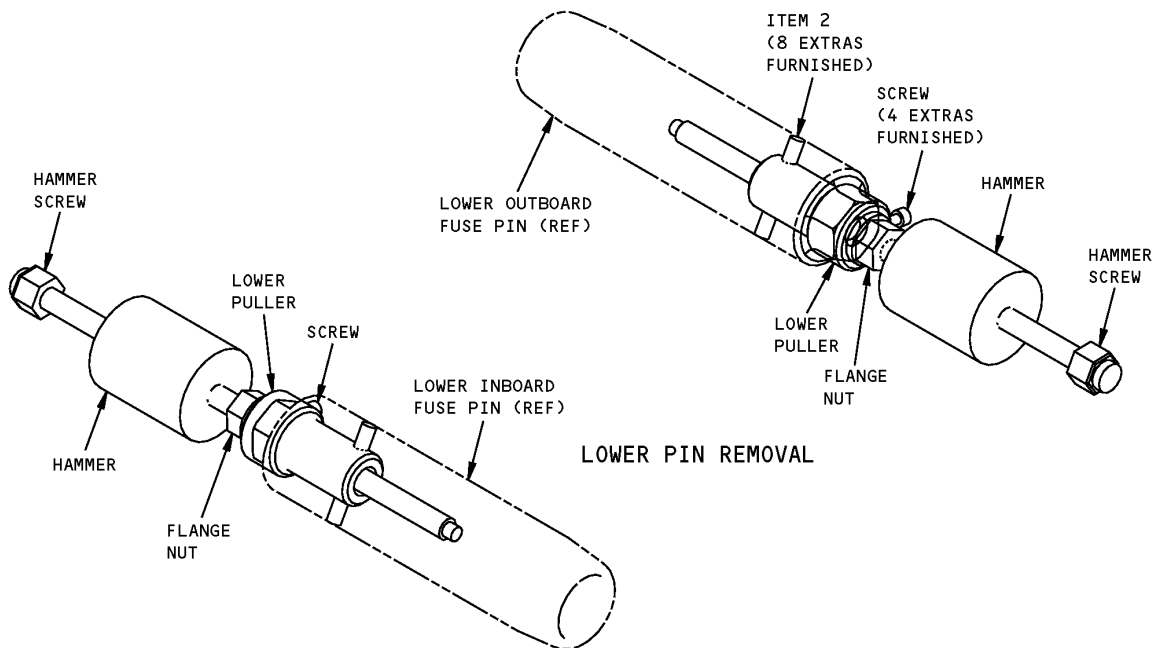
**DIMENSIONS:** 10 x 10 x 15 inches (254 x 254 x 381 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Forward Trunnion Fuse Pin Puller Equipment  
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Main Landing Gear Forward Trunnion Fuse Pin Puller Equipment  
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32104-5	LONG PULL-OUT PIN	
2	A32104-6	SHORT PULL-OUT PIN	
3	A32104-9	SCREW	
4	A32104-18	SCREW	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32115-1, -2, -6**

**NAME:** OVERHEAD INSTALLATION/REMOVAL EQUIPMENT - MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32115-1, -2 and -6 are used on 767-400 airplanes. The A32115-1 overhead equipment is used for main landing gear installation and removal and shop handling. The A32115-2 lifting lug equipment is used for shop handling only. The A32115-6 proof load fixture is used to proof load the A32115-1 and -2 equipment. A32115 is used in conjunction with A32112 removal/installation guide equipment to install and remove the main landing gear. Refer to AMM 32-11-01, AMM 32-11-02, CMM 32-11-33 and CMM 32-11-36 for complete usage instructions. The A32115-1, -2 and -6 consist of:

A32115-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	OVERHEAD ASSEMBLY	A32115-3
1	LIFTING LUG ASSEMBLY	A32115-4
1	LOWER CLAMP ASSEMBLY	A32115-5
2	SHACKLE	G-209-1
1	SLING LINK	S-341-7/8
1	SECURING WEDGE	A32115-8
1	HAND RETRACTABLE PLUNGER	CL-10-LHRP
1	LONG ALIGNMENT PIN	A32115-79
1	SHORT ALIGNMENT PIN	A32115-80
1	STORAGE BOX	

A32115-2		
QUANTITY	NOMENCLATURE	PART NUMBER
1	LIFTING LUG ASSEMBLY	A32115-4
1	SHACKLE	G-209-1
1	SECURING WEDGE	A32115-8
1	HAND RETRACTABLE PLUNGER	CL-10-LHRP
1	STORAGE BOX	



767

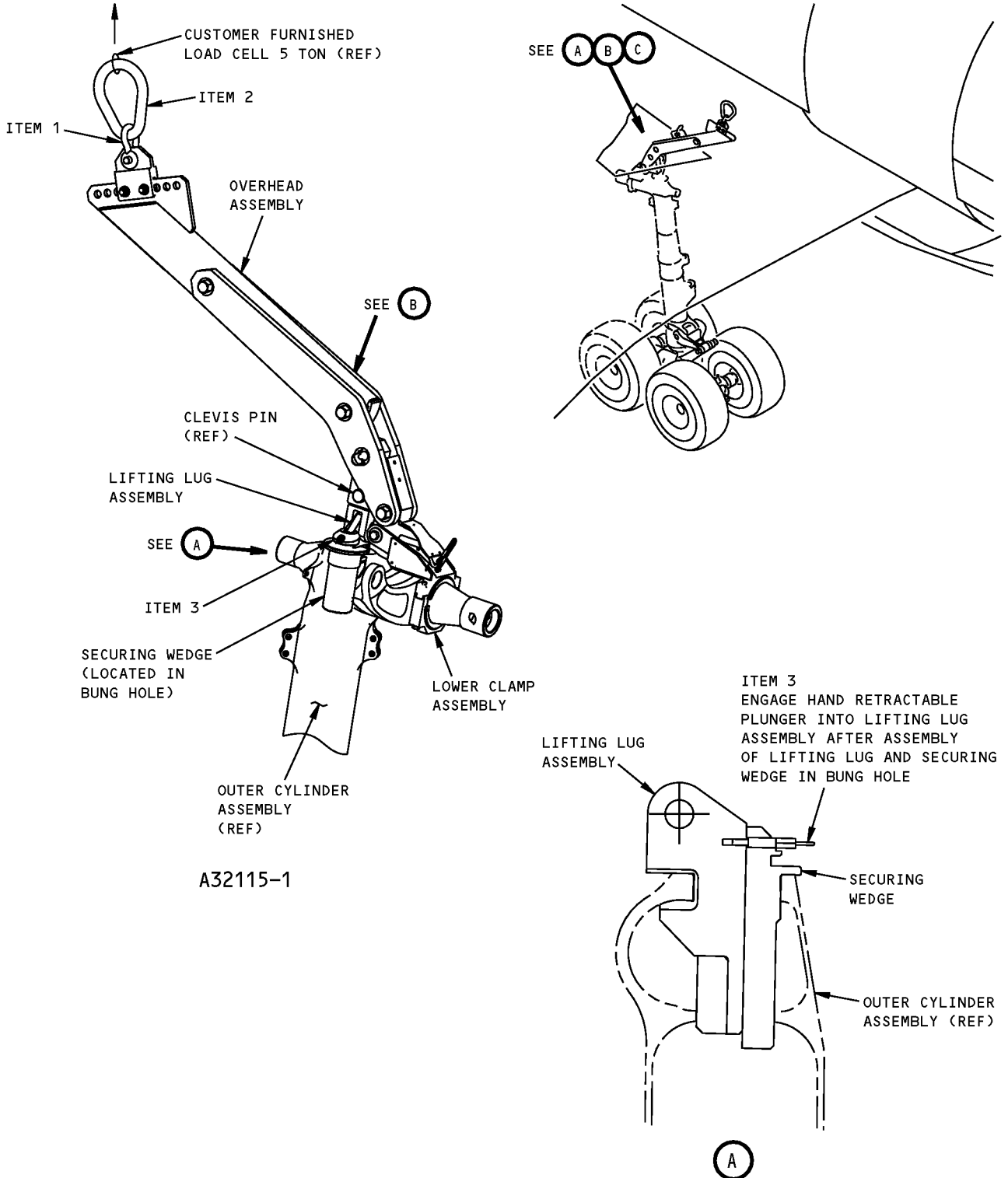
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>A32115-6</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	FIXTURE ASSEMBLY	A32115-7
1	STORAGE BOX	

**WEIGHT:**  
A32115-1 - 1000 lbs (454 kg)  
A32115-2 - 150 lbs (68 kg)  
A32115-6 - 350 lbs (159 kg)

**DIMENSIONS:**  
A32115-1 - 20 x 60 x 85 inches (508 x 1524 x 2159 mm)  
A32115-2 - 6 x 10 x 16 inches (152 x 254 x 406 mm)  
A32115-6 - 13 x 26 x 29 inches (330 x 660 x 737 mm)

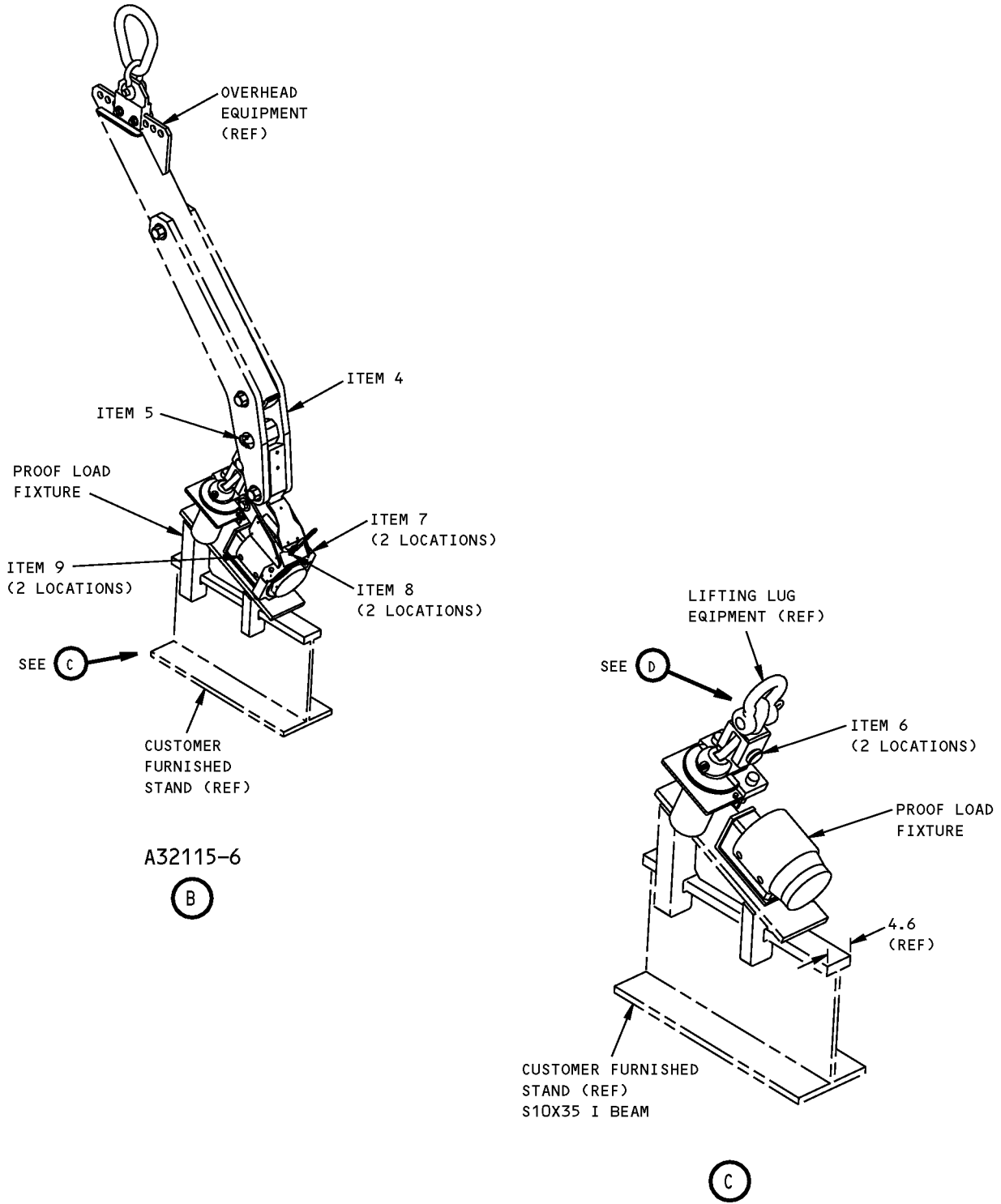
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Overhead Installation/Removal Equipment  
Figure 1 (Sheet 1 of 3)**

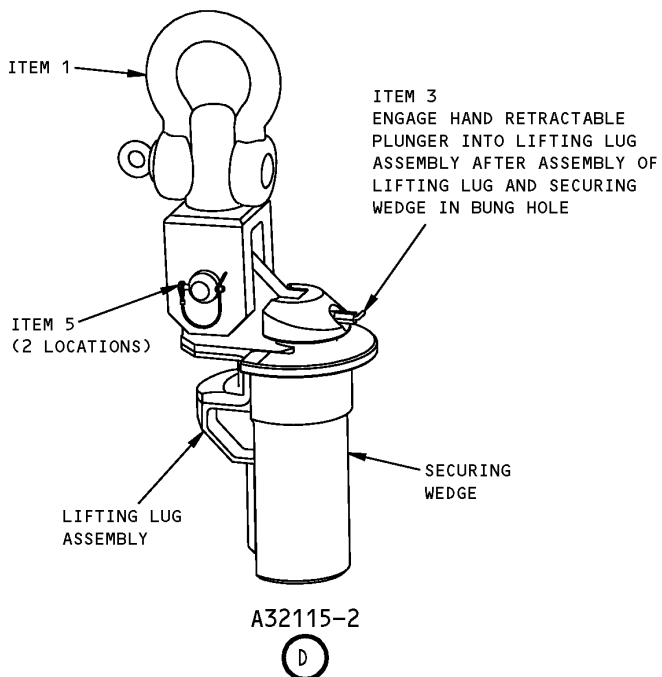


**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Overhead Installation/Removal Equipment  
Figure 1 (Sheet 2 of 3)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Main Landing Gear Overhead Installation/Removal Equipment  
Figure 1 (Sheet 3 of 3)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	G-209-1	SHACKLE	V75535
2	S-341-7/8	SLING LINK	V75535
3	CL-10-LHRP	HAND RETRACTABLE PLUNGER	V99862
4	A32115-20	PIN	
5	A32115-36	TAB LOCK SNAPPER PIN	V7V765
6	A32115-35	CLEVIS PIN	
7	A32115-67	SCREW	
8	A32115-68	SCREW	
9	A32115-69	SCREW	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32107-1**

**NAME:** REPLACEMENT EQUIPMENT - LOWER BEARING SEALS, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32107-1 replacement equipment is used on the 767-400 airplanes. A32107 is used to remove and install the main landing gear lower seals. Refer to AMM 32-11-02, AMM 32-11-25 and CMM 32-11-33 for complete usage instructions. The A32107-1 replacement equipment includes an A32004-4 wrench adapter. A32004-4 is required to be fabricated from the A32004 drawing. A32107-1 consists of:

A32107-1		
QUANTITY	NOMENCLATURE	PART NUMBER
2	SEAL PULLER ASSEMBLY	A32107-2
1	SEAL CUTTER ASSEMBLY	A32107-3
4	EXTRACTOR ASSEMBLY	A32107-4
1	GLAND NUT RETAINER ASSEMBLY	A32107-5
1	PULLER ASSEMBLY	A32107-6
3	PULLER ADAPTER ASSEMBLY	A32107-7
1	SUPPORT ASSEMBLY	A32107-8
2	EXTENSION ASSEMBLY	A32107-9
1	BLADE CONTAINER	A32107-10
4	BLADE	A32107-11
2	THREAD PROTECTOR ASSEMBLY	A32107-12
2	GUIDE ASSEMBLY	A32107-13
1	BULLET NOSE	A32107-14
2	SKID PLATE	A32107-15
2	TURN BLOCK	A32107-17
3	SCREW	A32107-37
1	DATA PACKAGE	A32107-56
2	FLOOR PLATE	A32107-57
1	TRUCK POSITIONER ASSEMBLY	A32107-69
3	WASHER	A32107-85
2	SEAL INSTALLER	A32107-90



767

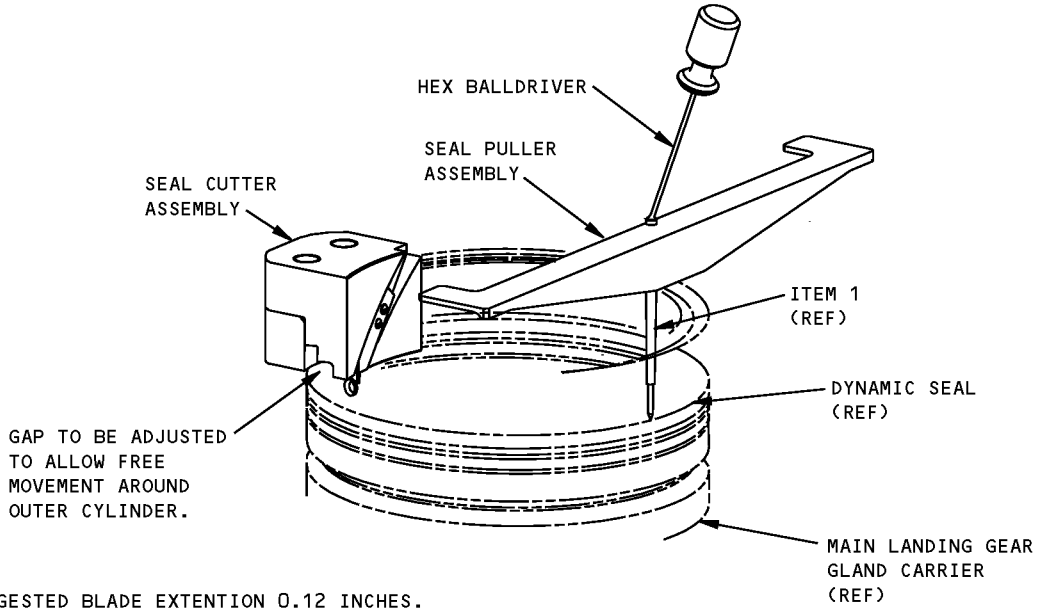
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

A32107-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	CLEVIS PIN ASSEMBLY	A32107-95
1	STREAMER/CLEVIS PIN ASSEMBLY	A32107-96
1	WRENCH ADAPTER	A32004-4
1	HEX BALLDRIVER	466-107
1	SOCKET	5552
1	SOCKET ADAPTER	5653
2	UTILITY STRAP	75169-007
1	STORAGE BOX	

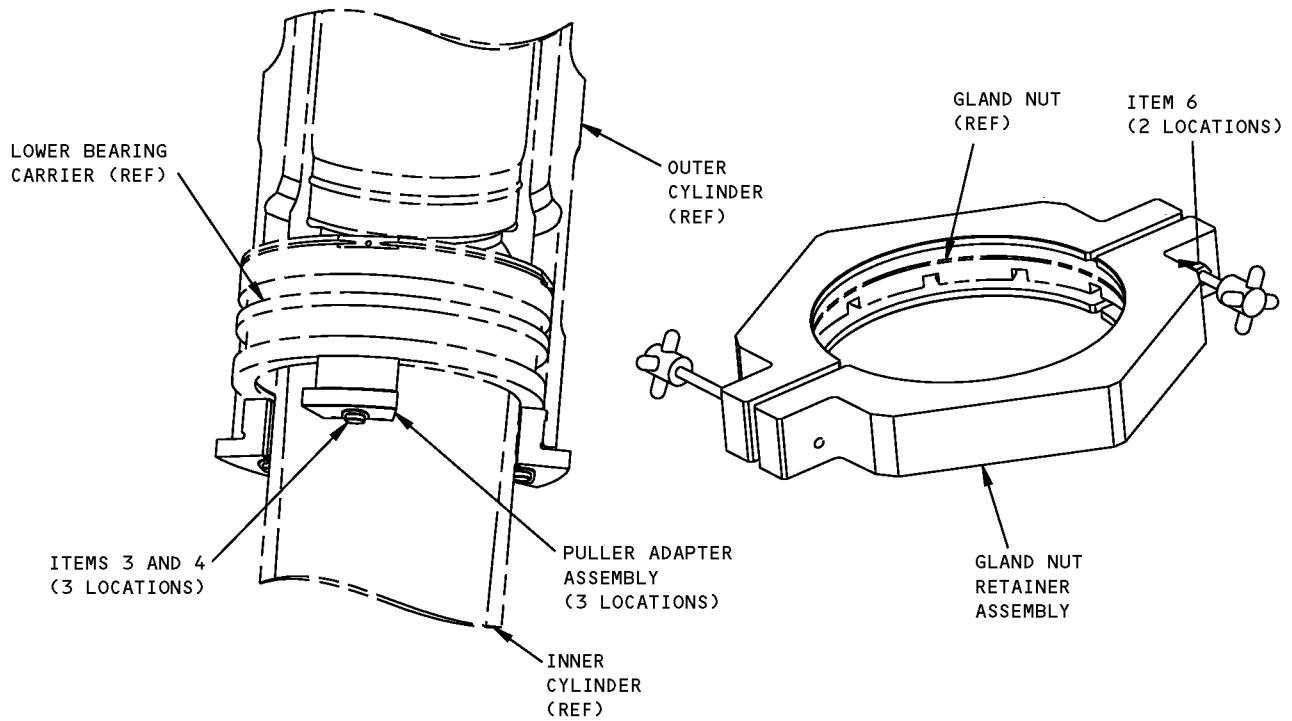
**WEIGHT:** 198 lbs (90 kg)

**DIMENSIONS:** 17 x 32 x 36 inches (432 x 813 x 914 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

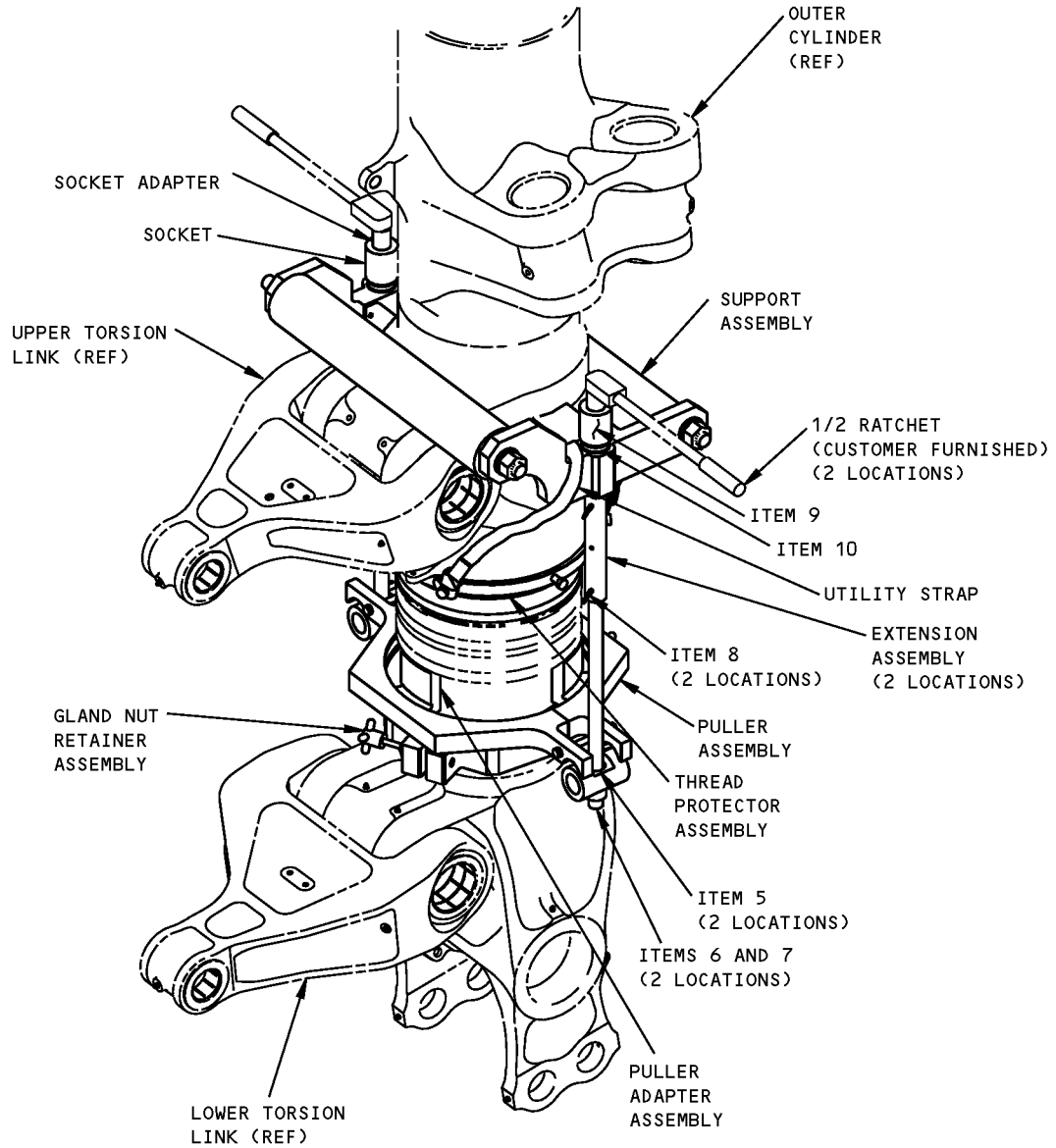


**DYNAMIC SEAL REMOVAL**



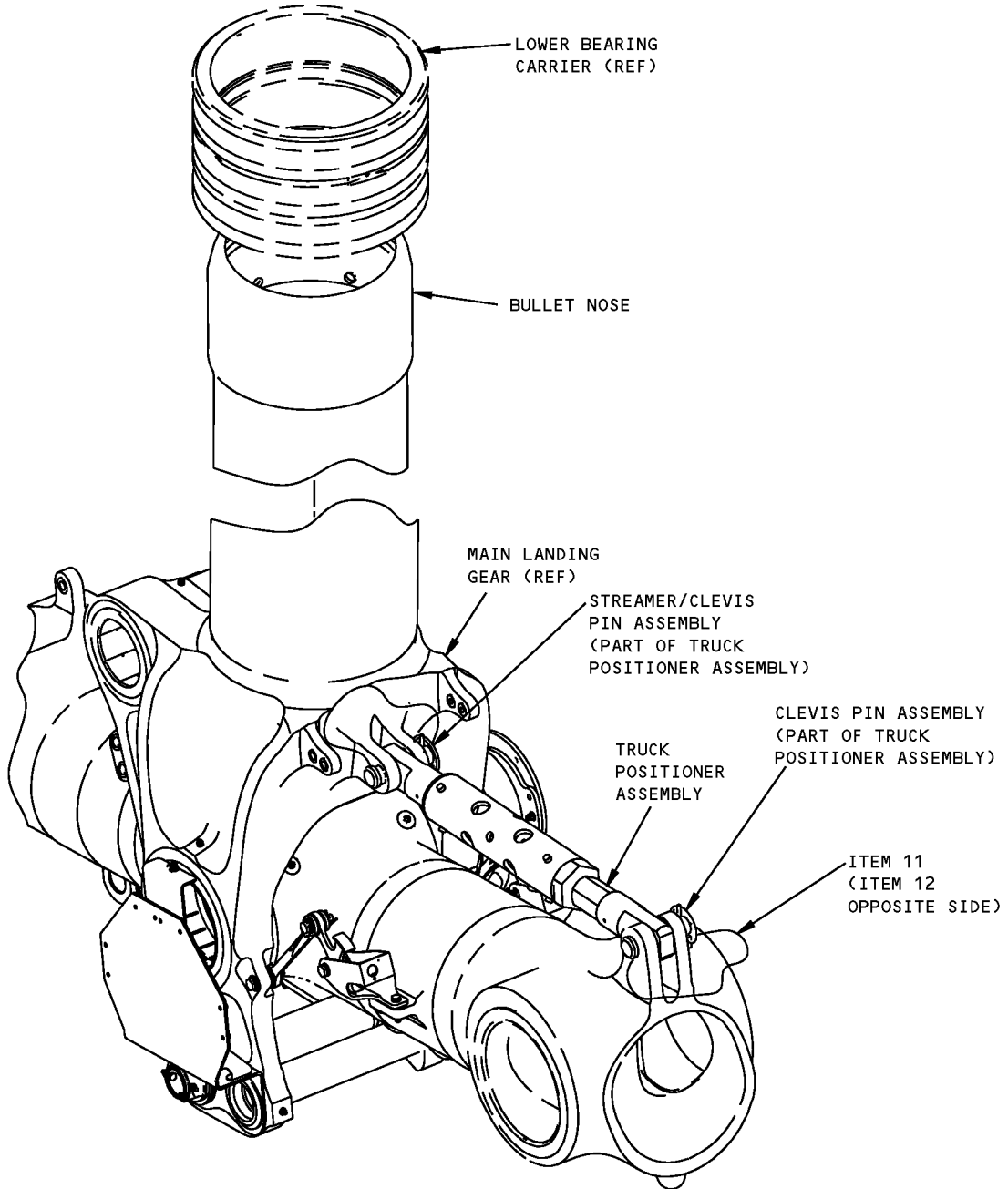
**Main Landing Gear Lower Bearing Seals Replacement Equipment  
Figure 1 (Sheet 1 of 5)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



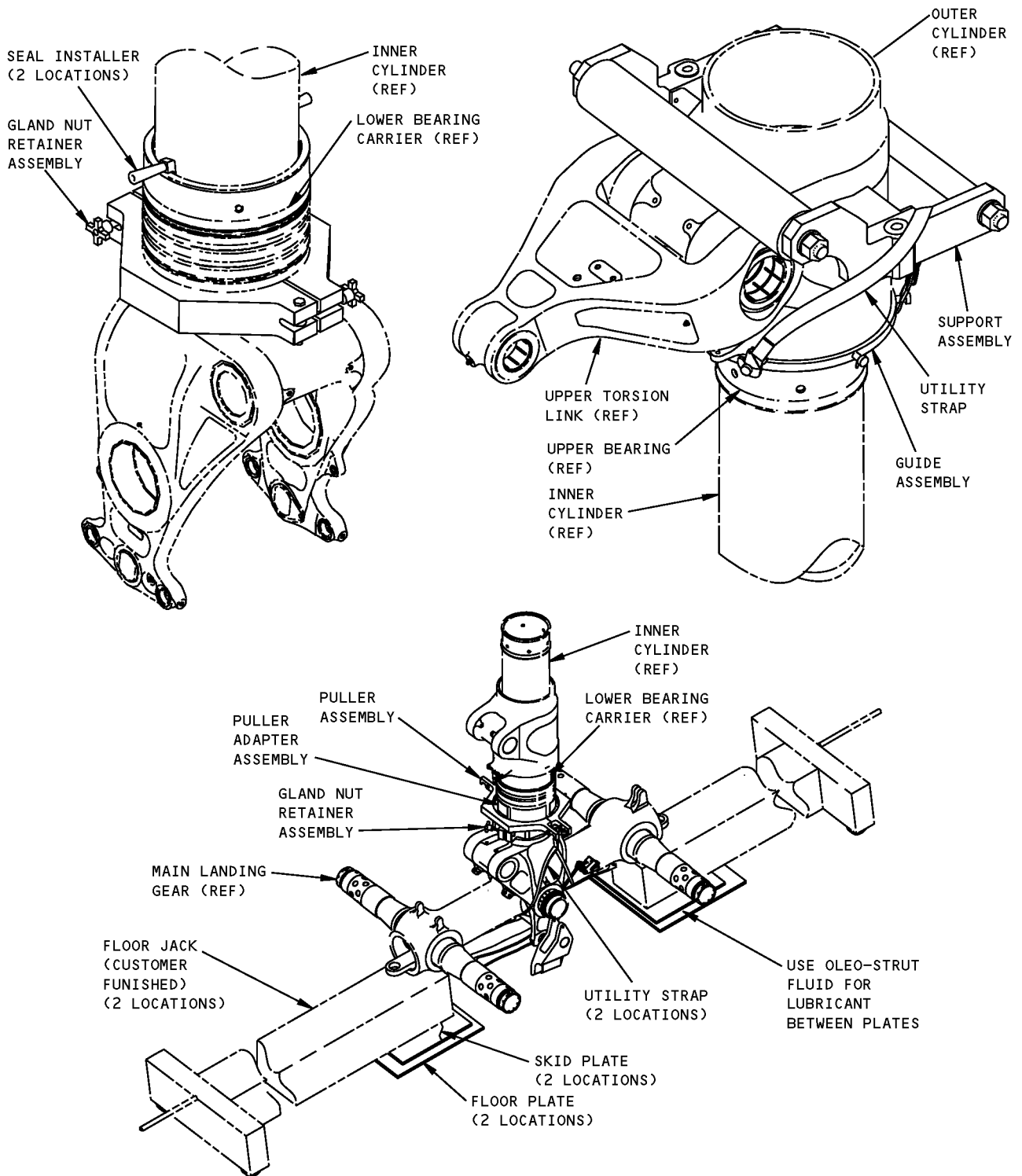
**BEARING CARRIER AND SEAL CARRIER INSTALLATION**

**Main Landing Gear Lower Bearing Seals Replacement Equipment  
Figure 1 (Sheet 2 of 5)**



Main Landing Gear Lower Bearing Seals Replacement Equipment  
Figure 1 (Sheet 3 of 5)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

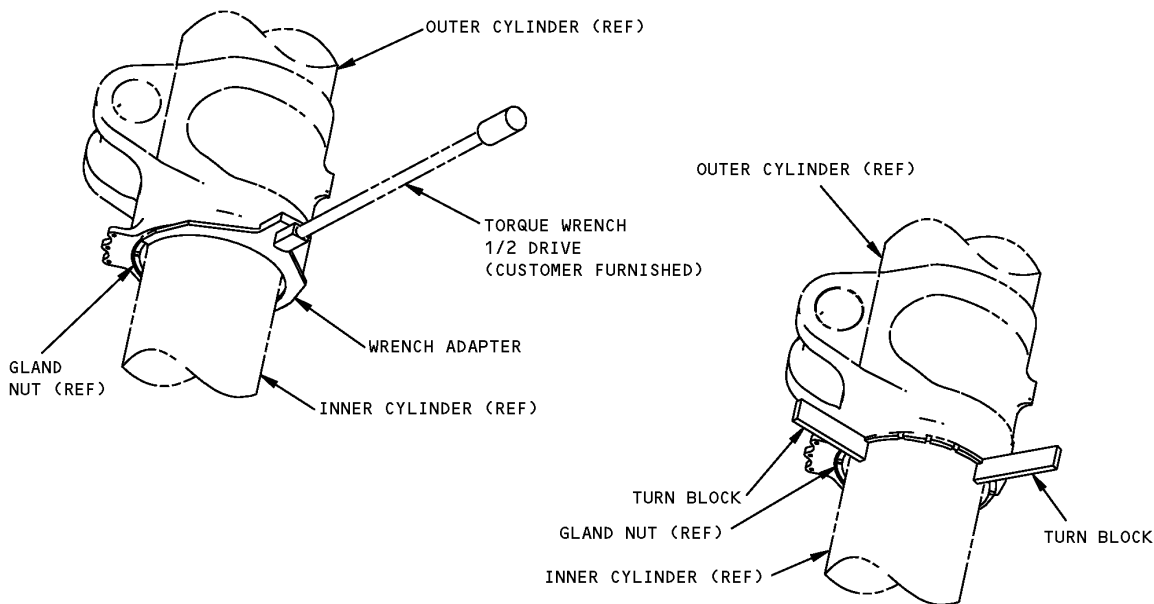


**BEARING CARRIER AND SEAL CARRIER REMOVAL**

**Main Landing Gear Lower Bearing Seals Replacement Equipment  
Figure 1 (Sheet 4 of 5)**



ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Main Landing Gear Lower Bearing Seals Replacement Equipment  
Figure 1 (Sheet 5 of 5)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32107-4	EXTRACTOR ASSEMBLY	
2	A32107-11	BLADE	
3	A32107-37	SCREW	
4	A32107-85	WASHER	
5	A32107-34	SCREW	
6	A32107-31	NUT	
7	A32107-32	WASHER	
8	CL-4-BLPR-1.50	BALL LOCK PIN	V99862
9	CL-7-SNW	SPHERICAL NUT/WASHER	V99862
10	TB2028	WASHER	V71041
11	A32107-95	CLEVIS PIN ASSEMBLY	
12	A32107-96	STREAMER CLEVIS PIN ASSEMBLY	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32109-41**

**NAME:** PIN INSTALLATION/REMOVAL KIT - MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32109-41 pin installation/removal kit is used on the 767-400 airplanes. A32109 is used for build-up of main landing gear components. Refer to AMM 32-11-01, AMM 32-11-03, AMM 32-11-04, AMM 32-11-05, AMM 32-11-06, AMM 32-11-08, AMM 32-11-10, AMM 32-11-11, AMM 32-11-12, AMM 32-11-13, AMM 32-11-15, AMM 32-11-25 and CMM 32-11-36 for complete usage instructions. A32109-41 consists of:

A32109-41		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SOCKET ASSEMBLY	A32109-2
1	WRENCH ASSEMBLY	A32109-3
1	WRENCH ASSEMBLY	A32109-4
1	WRENCH ASSEMBLY	A32109-5
1	WRENCH ASSEMBLY	A32109-6
2	WRENCH ASSEMBLY	A32109-7
1	WRENCH ASSEMBLY	A32109-8
1	WRENCH ASSEMBLY	A32109-9
1	ADAPTER PLATE	A32109-10
1	ADAPTER PLATE	A32109-11
1	ADAPTER PLATE	A32109-12
1	ADAPTER PLATE	A32109-42
1	CROWFOOT WRENCH	A32109-13
1	CROWFOOT WRENCH	A32109-37
1	THREAD PROTECTOR	A32109-14
1	THREAD PROTECTOR	A32109-15
1	THREAD PROTECTOR	A32109-16
1	THREAD PROTECTOR	A32109-17
1	THREAD PROTECTOR	A32109-18
1	THREAD PROTECTOR	A32109-19
1	THREAD PROTECTOR	A32109-20
3	SCREW	A32109-36



**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>A32109-41</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	LOCKNUT SOCKET	1910
1	LOCKNUT SOCKET	1914
1	LOCKNUT SOCKET	1921
1	LOCKNUT SOCKET	1932
1	STORAGE BOX	

**WEIGHT:** 130 lbs (59 kg)

**DIMENSIONS:** 12 x 30 x 50 inches (305 x 762 x 1270 mm)

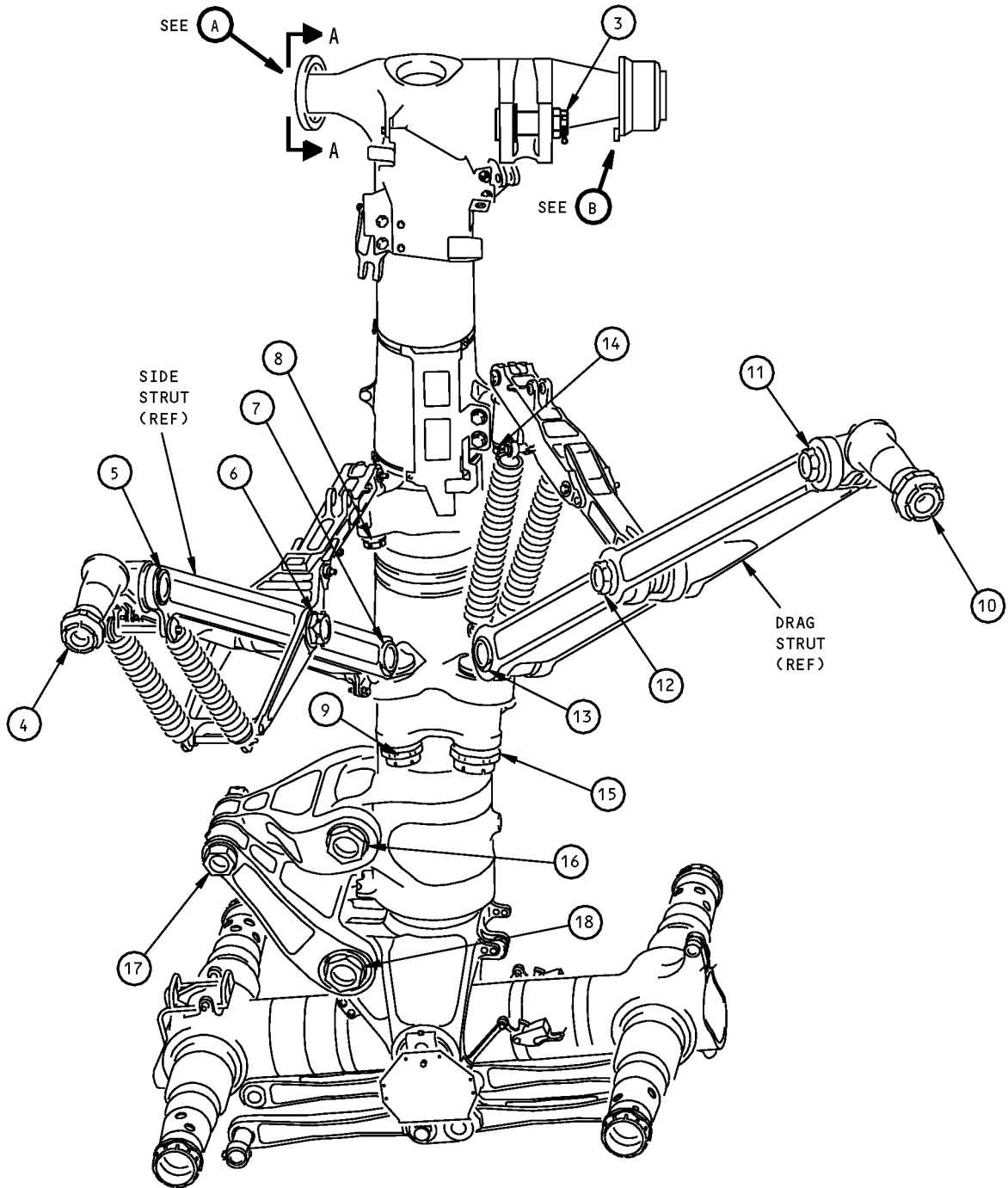
**NOTE:** A32109-41 supersedes A32109-1.

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

COMPONENT	WRENCH	THREAD PROTECTOR	ADAPTER	USAGE LOCATION
UPPER TRUNNION, NUT-RETAINING FORWARD TRUNNION BEARING	A32109-4	NOT REQUIRED	NOT REQUIRED	①
UPPER TRUNNION, NUT-AFT BEARING ASSEMBLY	A32109-3	NOT REQUIRED	NOT REQUIRED	②
ACTUATOR, RETRACT OUTBOARD MAIN LANDING GEAR	A32109-2 A32109-10 A32109-36 (3)	A32109-15	A32109-7	③
SIDE STRUT, UPPER ATTACH SPINDLE	A32109-13	NOT REQUIRED	NOT REQUIRED	④
SIDE STRUT, UPPER STRUT LINK ATTACH	1910	A32109-16	A32109-9	⑤
SIDE STRUT, APEX	1910	A32109-16	A32109-9	⑥
SIDE STRUT, LOWER STRUT LINK ATTACH	1910	A32109-16	A32109-9	⑦
SIDE STRUT, LOCK LINK SPINDLE	1921	NOT REQUIRED	NOT REQUIRED	⑧
SIDE STRUT, LOWER ATTACH SPINDLE	A32109-2 A32109-11 A32109-36 (3)	NOT REQUIRED	NOT REQUIRED	⑨
DRAG STRUT, UPPER ATTACH SPINDLE	A32109-5	NOT REQUIRED	NOT REQUIRED	⑩
DRAG STRUT, UPPER STRUT LINK ATTACH	A32109-37	A32109-17	A32109-6	⑪
DRAG STRUT, APEX	A32109-2 A32109-42 A32109-36 (3)	A32109-18	A32109-8	⑫
STRUT LINK ATTACH DRAG STRUT, LOWER	A32109-2 A32109-42 A32109-36 (3)	A32109-18	A32109-8	⑬
DRAG STRUT, LOCK LINK SPINDLE	1921	NOT REQUIRED	NOT REQUIRED	⑭
DRAG STRUT, LOWER ATTACH SPINDLE	A32109-2 A32109-12 A32109-36 (3)	NOT REQUIRED	NOT REQUIRED	⑮
TORSION LINK UPPER ATTACH	A32109-2 A32109-12 A32109-36 (3)	A32109-19	1914	⑯
TORSION LINK MID ATTACH	1932	A32109-14	A32109-8	⑰
TORSION LINK LOWER ATTACH	A32109-2 A32109-11 A32109-36 (3)	A32109-20	1914	⑱

Main Landing Gear Pin Installation/Removal Kit  
Figure 1 (Sheet 1 of 3)

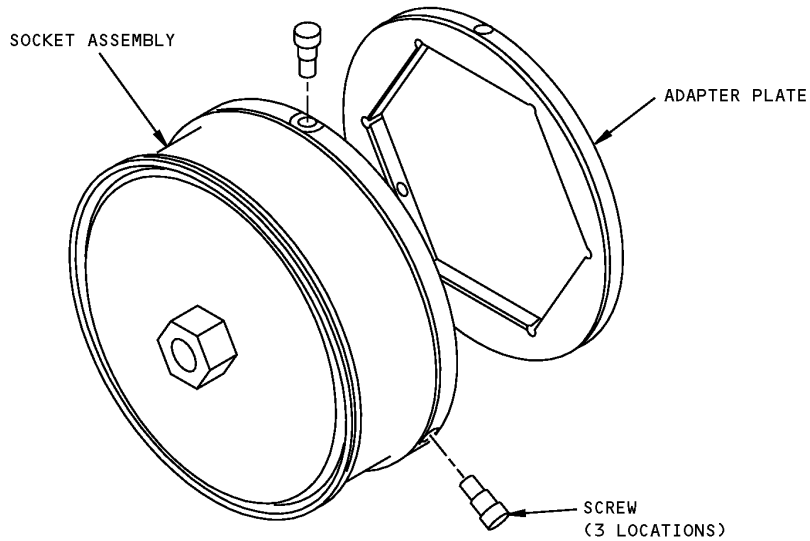
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**MAIN LANDING GEAR WRENCH KIT**

**Main Landing Gear Pin Installation/Removal Kit  
Figure 1 (Sheet 2 of 3)**

**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Pin Installation/Removal Kit  
Figure 1 (Sheet 3 of 3)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32109-36	SCREW	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32112-1**

**NAME:** REMOVAL/INSTALLATION GUIDE EQUIPMENT - AFT TRUNNION, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

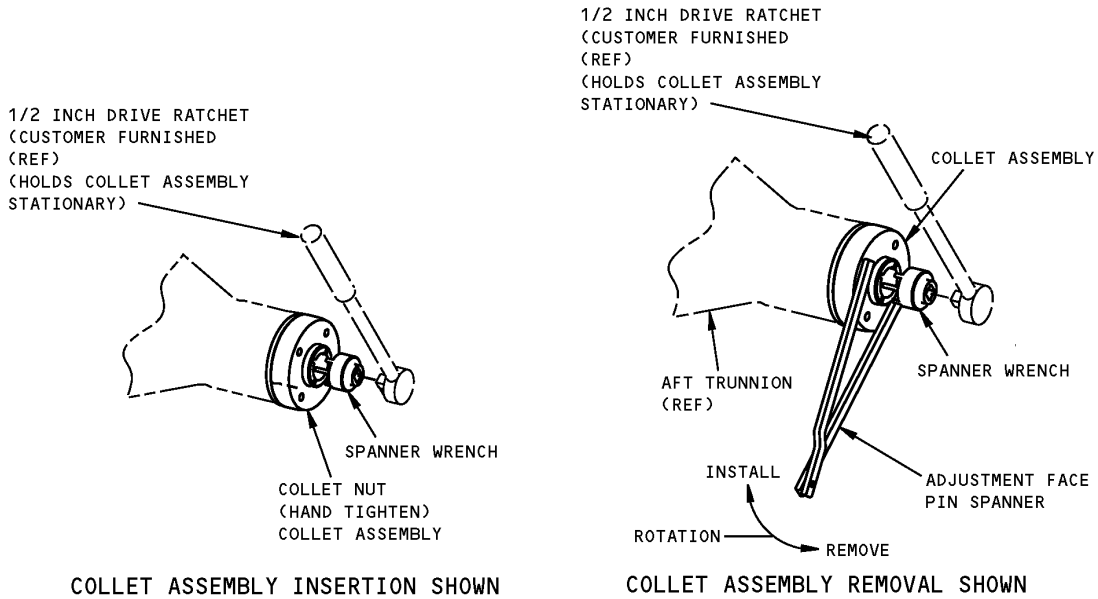
**USAGE & DESCRIPTION:** The A32112-1 removal/installation guide equipment is used on the 767-400 airplanes. A32112 is used to remove and install the aft trunnion on the main landing gear. Refer to AMM 32-11-01 for complete usage instructions. This tool consists of:

A32112-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	COLLET ASSEMBLY	A32112-2
1	SPHERICAL BEARING ALIGNMENT ASSEMBLY	A32112-7
1	PULLER ASSEMBLY	A32112-8
1	PULLER HUB	A32112-9
1	SPANNER WRENCH	A32112-16
1	ADJUSTMENT FACE PIN SPANNER	AFS484
1	1 7/8 INCH SOCKET	LDH603
1	BRONZE WASHER	TB2456
1	STORAGE BOX	

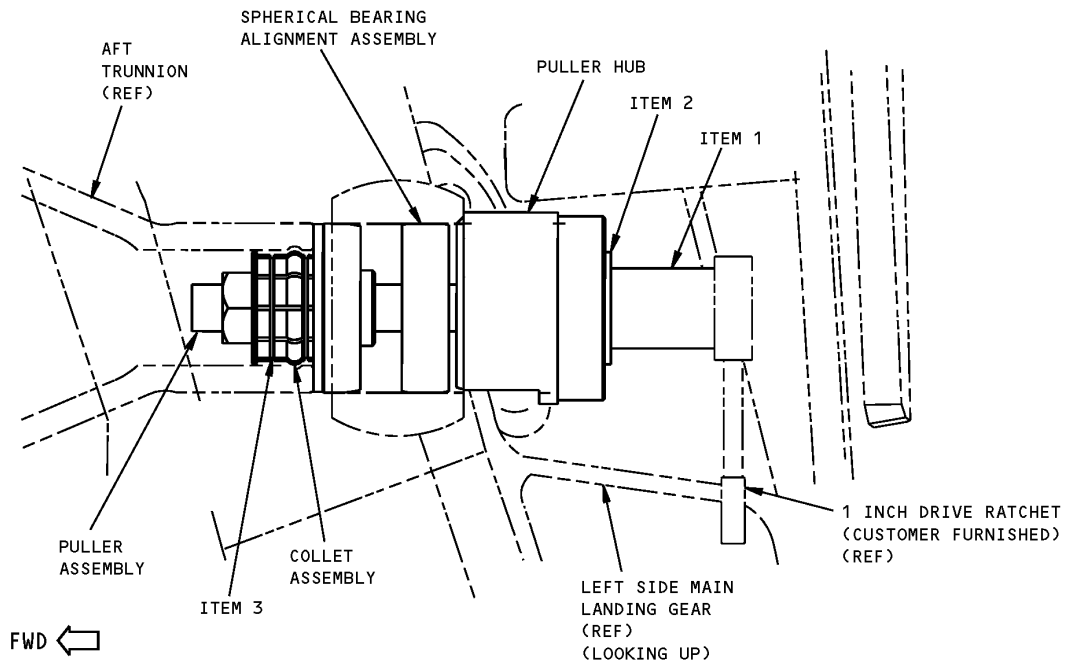
**WEIGHT:** 15 lbs (7 kg)

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

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Aft Trunnion Removal/Installation Guide Equipment Figure 1 (Sheet 1 of 2)**



**Main Landing Gear Aft Trunnion Removal/Installation Guide Equipment Figure 1 (Sheet 2 of 2)**





767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	LDH603	1 7/8 INCH SOCKET	V55719
2	TB2456	BRONZE WASHER	V71041
3	2-144	O-RING	V02697



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32120-1**

**NAME:** TORQUE ADAPTER SET - ACTUATOR COMPONENTS, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

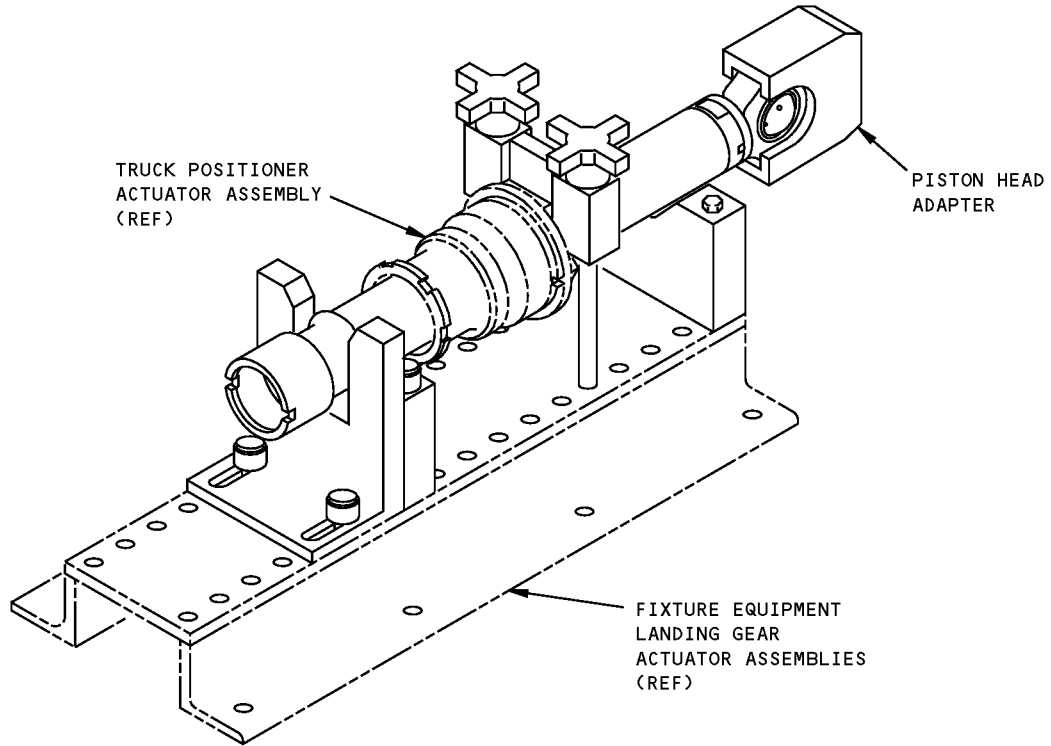
**USAGE & DESCRIPTION:** The A32120-1 torque adapter set is used on the 767-400 airplanes. A32120 is used to provide the fixture equipment necessary for the MLG actuators. Refer to the current A32120-1 drawing, CMM 32-32-29, CMM 32-32-35, CMM 32-32-40 and CMM 32-32-44 for complete usage instructions. A32120 consists of:

A32120-1		
QUANTITY	NOMENCLATURE	VENDOR CODE
1	TAIL SKID ROD ADAPTER ASSEMBLY	A32120-2
1	DOOR ACTUATOR ROD ADAPTER ASSEMBLY	A32120-3
1	SIDE BRACE ROD ADAPTER ASSEMBLY	A32120-4
1	DRAG BRACE ROD ADAPTER ASSEMBLY	A32120-5
1	PISTON HEAD ADAPTER	A32120-7
1	PISTON HEAD ADAPTER	A32120-8
1	PISTON HEAD ADAPTER	A32120-9
1	PISTON HEAD ADAPTER	A32120-10
1	PISTON HEAD ADAPTER	A32120-11
1	PISTON HEAD ADAPTER	A32120-12
1	CROWFOOT WRENCH	A32120-13
1	CROWFOOT WRENCH	A32120-14
1	CROWFOOT WRENCH	A32120-15
1	CROWFOOT WRENCH	A32120-16
1	STORAGE BOX	

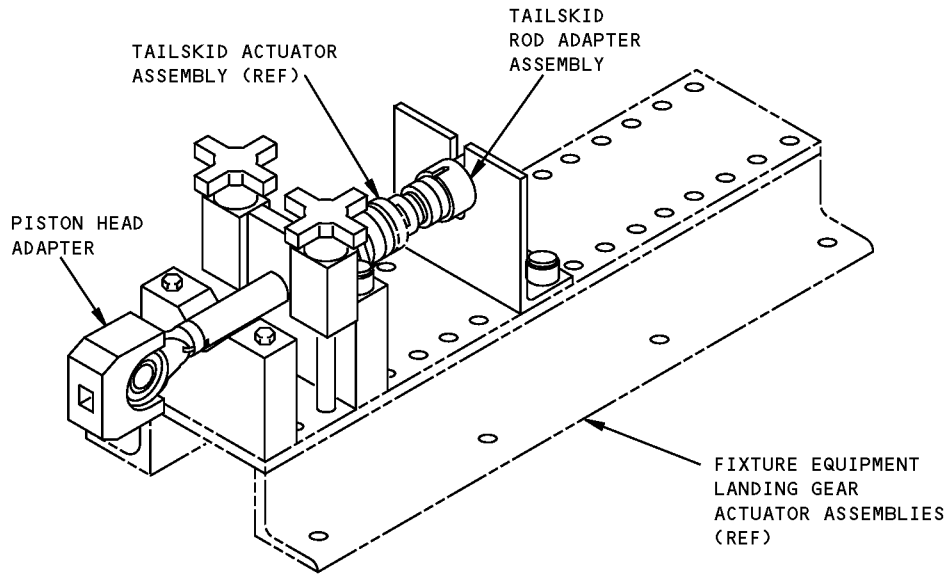
**WEIGHT:** 42 lbs (19 kg)

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

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



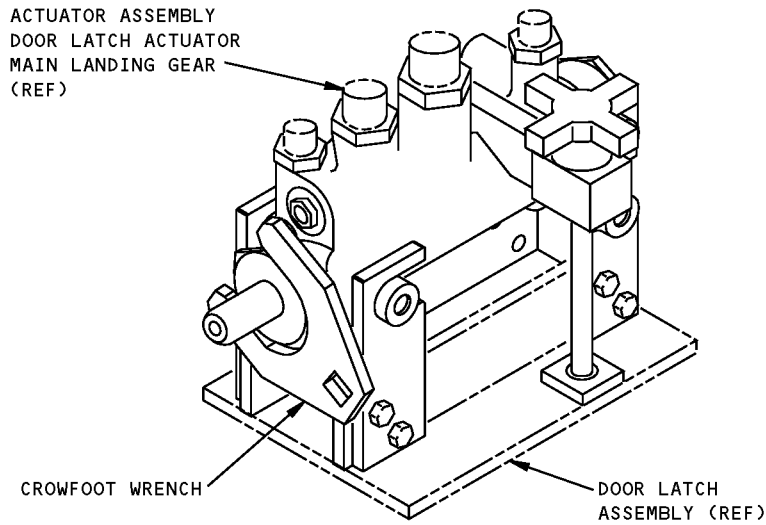
**MAIN LANDING GEAR TRUCK POSITIONER**



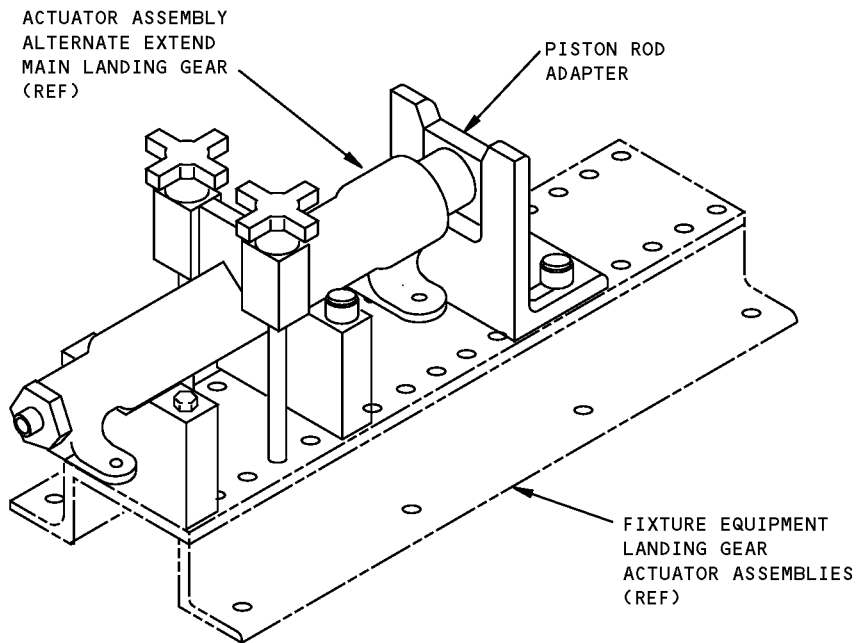
**TAILSKID ACTUATOR**

**Main Landing Gear Actuator Components Torque Adapter Set  
Figure 1 (Sheet 1 of 3)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**MAIN LANDING GEAR DOOR LATCH ACTUATOR**



**MAIN LANDING GEAR ALTERNATE EXTEND**

**Main Landing Gear Actuator Components Torque Adapter Set  
Figure 1 (Sheet 2 of 3)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

USAGE				
ACTUATOR	ASSEMBLY NUMBER	PROCEDURE	PARTS USED	REFERENCE CMM CHAPTER
MAIN LANDING GEAR ALTERNATE/ EXTEND	257T4662	INSTALLATION OF PISTON ASSEMBLY IN THE BARREL	-12	32-35-84
MAIN LANDING GEAR TRUCK POSITIONER	273T6151	PREPARE PISTON ROD AND END GLAND FOR INSTALLATION ONTO THE BARREL	-11	32-32-66
MAIN LANDING GEAR DOOR ACTUATOR	273T4551	INSTALL THE PISTON ROD IN THE BARREL ASSEMBLY	-3,-7	32-32-44
		INSTALL HEAD END, GLAND NUT AND LOCK NUT TO THE BARREL ASSEMBLY	-16	
TAILSKID ACTUATOR	273T4702	INSTALLATION OF THE ROD END ASSEMBLY ONTO THE PISTON ROD	-2,-10	32-71-12
MAIN LANDING GEAR DOWNLOCK SIDE BRACE	273T6251	INSTALL THE ROD END ON THE PISTON ROD	-4,-8	32-32-29
		INSTALL THE PISTON ROD AND THE ATTACHED PARTS IN THE BARREL ASSEMBLY	-14	
MAIN LANDING GEAR DOWNLOCK DRAG BRACE	273T6351	INSTALL THE ROD END ON THE PISTON ROD	-5,-9	32-32-35
		INSTALL THE PISTON ROD AND THE ATTACHED PARTS IN THE BARREL	-15	
MAIN LANDING GEAR LATCH ACTUATOR	273T4591	ASSEMBLY AND INSTALLATION OF THE MAIN LANDING GEAR DOOR LATCH ACTUATOR	-13	32-32-40

Main Landing Gear Actuator Components Torque Adapter Set  
Figure 1 (Sheet 3 of 3)



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32110-1**

**NAME:** PIN PULLER EQUIPMENT - BRAKE ROD, MAIN LANDING GEAR

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

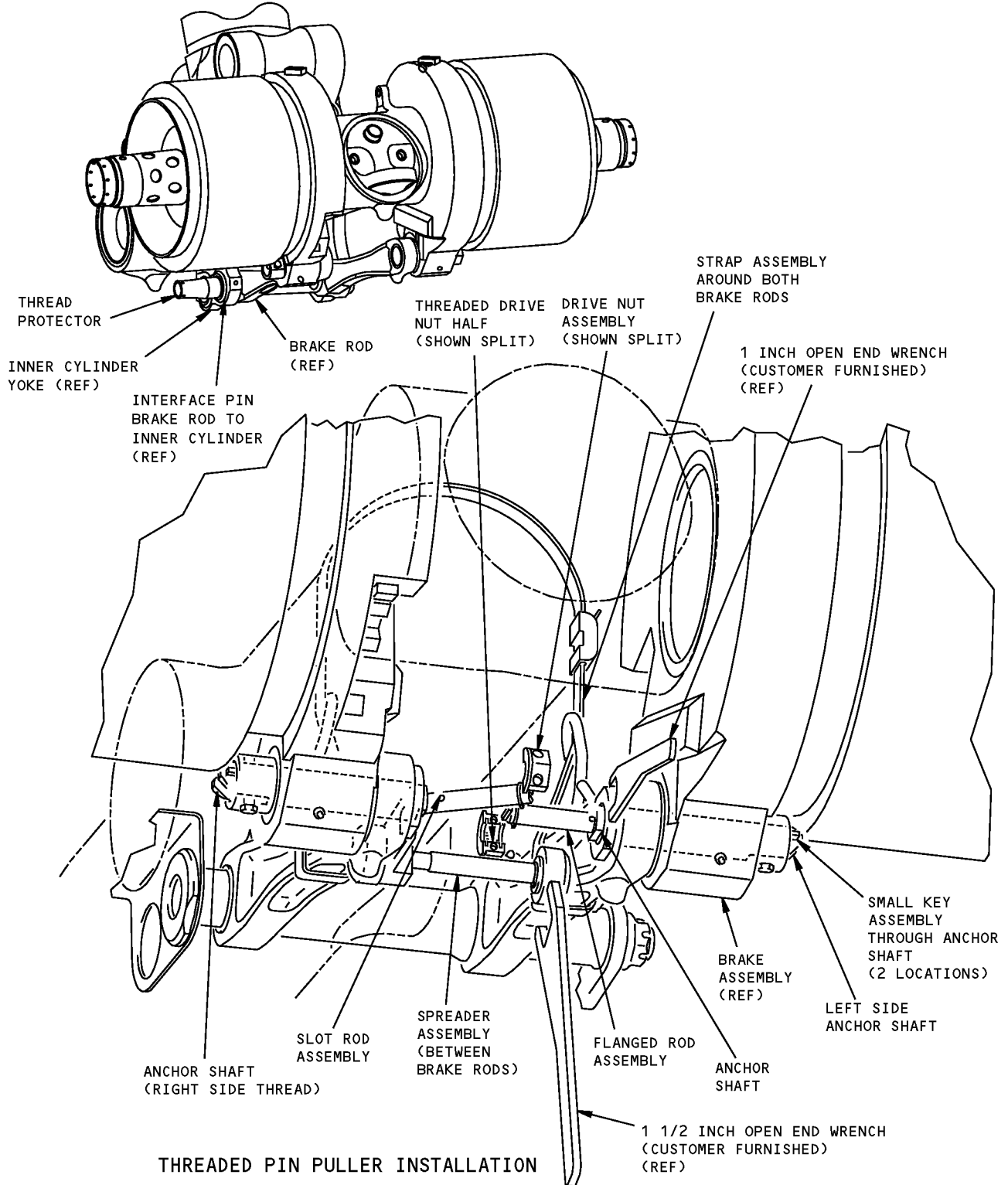
**USAGE & DESCRIPTION:** The A32110-1 pin puller equipment is used on 767-400 airplanes. A32110 is used to remove and install the brake rod pins from the main landing gear. Refer to AMM 32-11-20, AMM 32-41-08 and CMM 32-11-36 for complete usage instructions. A32110-1 consists of:

A32110-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	DUMMY COLLAR ASSEMBLY	A32110-2
1	FLANGED ROD ASSEMBLY	A32110-3
1	SLOT ROD ASSEMBLY	A32110-4
1	SMALL KEY ASSEMBLY	A32110-5
1	SPREADER ASSEMBLY	A32110-6
1	STRAP ASSEMBLY	A32110-7
1	DRIVE NUT ASSEMBLY	A32110-8
1	DATA PACKAGE	A32110-10
1	THREADED DRIVE NUT HALF	A32110-11
1	HANDLE	A32110-12
1	PIN DRIVER	A32110-13
1	THREAD PROTECTOR	A32110-14
1	LEFT HAND ANCHOR SHAFT	A32110-15
1	ANCHOR SHAFT	A32110-16
1	CROWFOOT WRENCH	FC80A
1	STORAGE BOX	

**WEIGHT:** 13 lbs (6 kg)

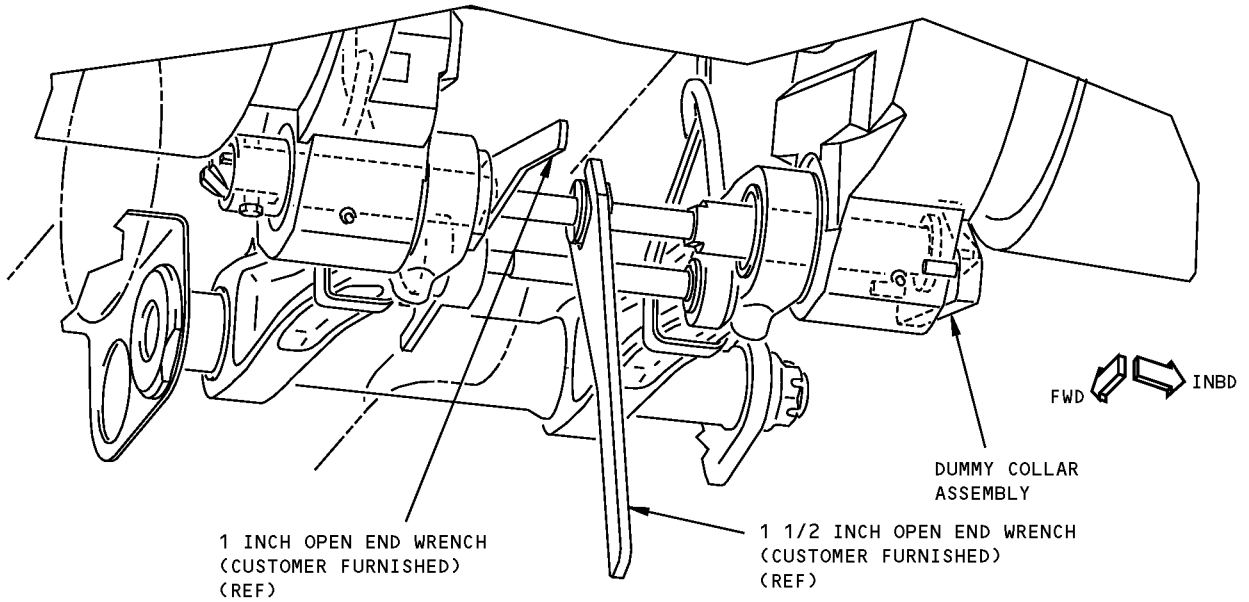
**DIMENSIONS:** 7 x 10 x 16 inches (178 x 254 x 406 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

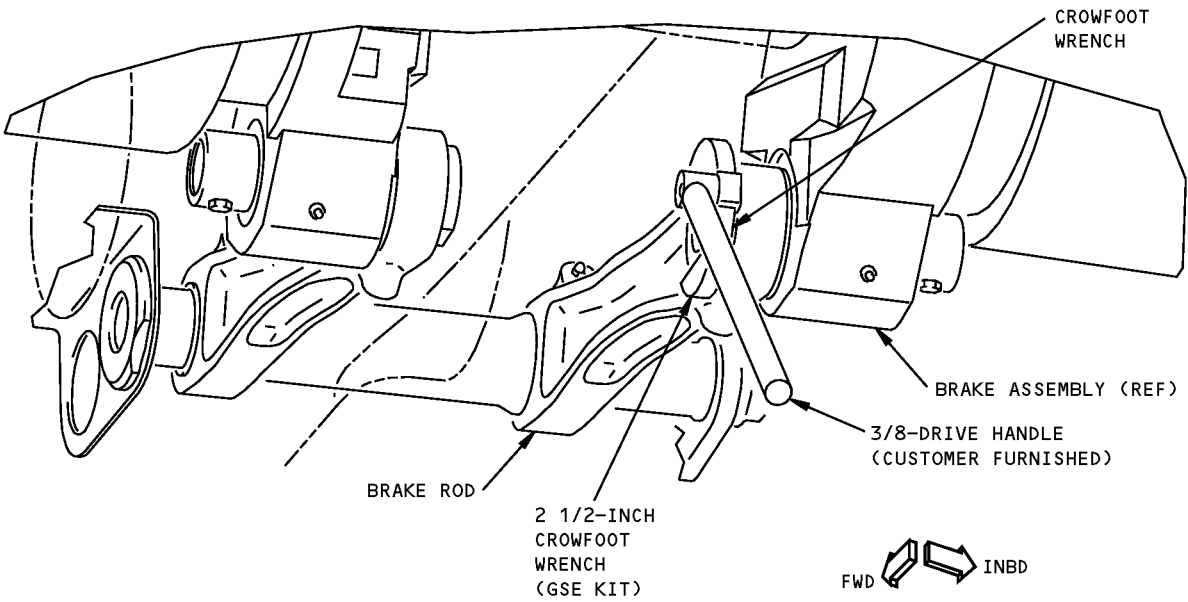


**Main Landing Gear Brake Rod Pin Puller Equipment  
Figure 1 (Sheet 1 of 3)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**THREADED PULLER INSTALLED FOR OPPOSITE PIN REMOVAL**

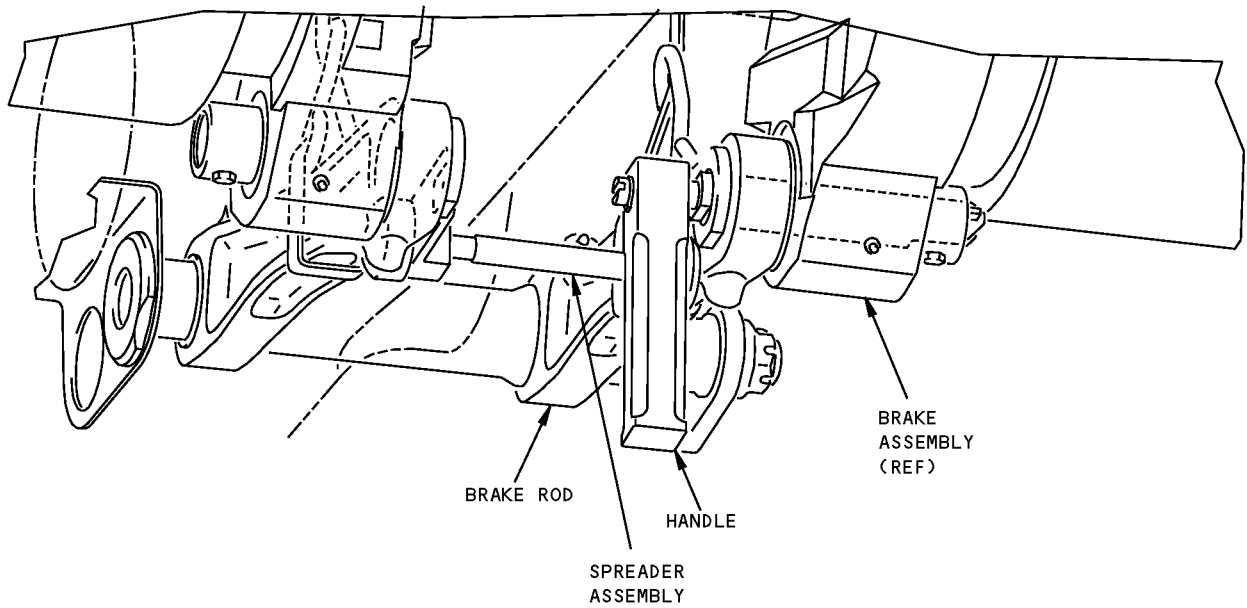


**PIN ROTATION**

**Main Landing Gear Brake Rod Pin Puller Equipment  
Figure 1 (Sheet 2 of 3)**



**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**HANDLE PULLER INSTALLATION**

**Main Landing Gear Brake Rod Pin Puller Equipment**  
**Figure 1 (Sheet 3 of 3)**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A07011-1, -2**

**NAME:** HOIST EQUIPMENT - AIRPLANE RECOVERY, WITHOUT MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A07011-1 and -2 hoist equipment is used on 767-400 airplanes. The A07011-1 hoist equipment is used to recover the airplane if one main landing gear is missing. The A07011-2 proof load assembly is used to proof load the A07011-1 hoist equipment. One A07011-1 is required for one main landing gear. In the event both main landing gear are missing, two A07011-1 hoist equipment are required. Refer to the 767 Airplane Recovery Document (D623T001) ARD 5-10-1 and the current A07011 drawing for complete usage instructions. The A07011-1 and -2 consist of:

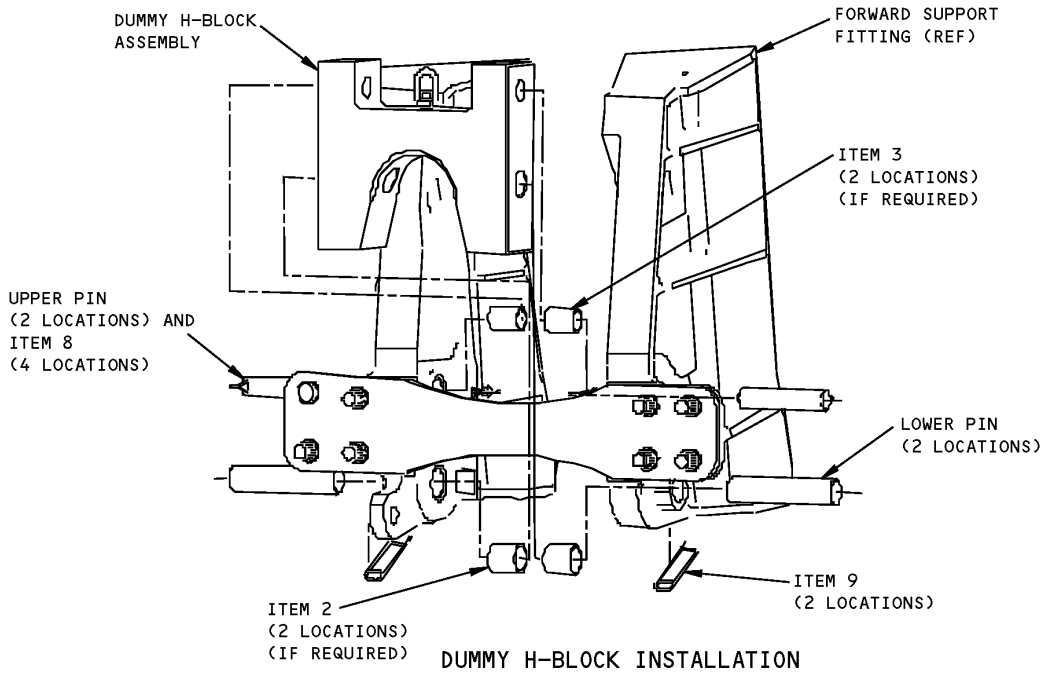
A07011-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	DUMMY TRUNNION ASSEMBLY	A07011-3
1	DUMMY H-BLOCK ASSEMBLY	A07011-4
1	PLATE	A07011-5
2	SCREW	A07011-6
2	LOWER PIN	A07011-7
2	LOWER PIN BUSHING	A07011-8
2	UPPER PIN	A07011-9
2	UPPER PIN BUSHING	A07011-10
3	BLANK BOLT	A07011-11
2	CAP SCREW	A07011-12
1	AFT TRUNNION PIN	A07011-13
1	BACK RING	A07011-15
1	SPACER	A07011-16
1	FORWARD TRUNNION PIN	A07011-17
1	LOWER DUMMY BUSHING ASSEMBLY	A07011-18
1	UPPER DUMMY BUSHING ASSEMBLY	A07011-19
7	WIRE LOCK PIN	033-101
2	SAFETY PIN	034-E05
1	STORAGE BOX ASSEMBLY	

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

A07011-2		
QUANTITY	NOMENCLATURE	PART NUMBER
3	HOLD DOWN TUBE	A07011-43
2	LOWER PIN COLLAR	A07011-44
2	UPPER PIN COLLAR	A07011-45
2	END PLATE	A07011-46
2	H-BLOCK PLATE	A07011-47
2	SUPPORT PLATE	A07011-48
1	AFT TRUNNION PIN PLATE	A07011-49
1	MAIN TUBE	A07011-50

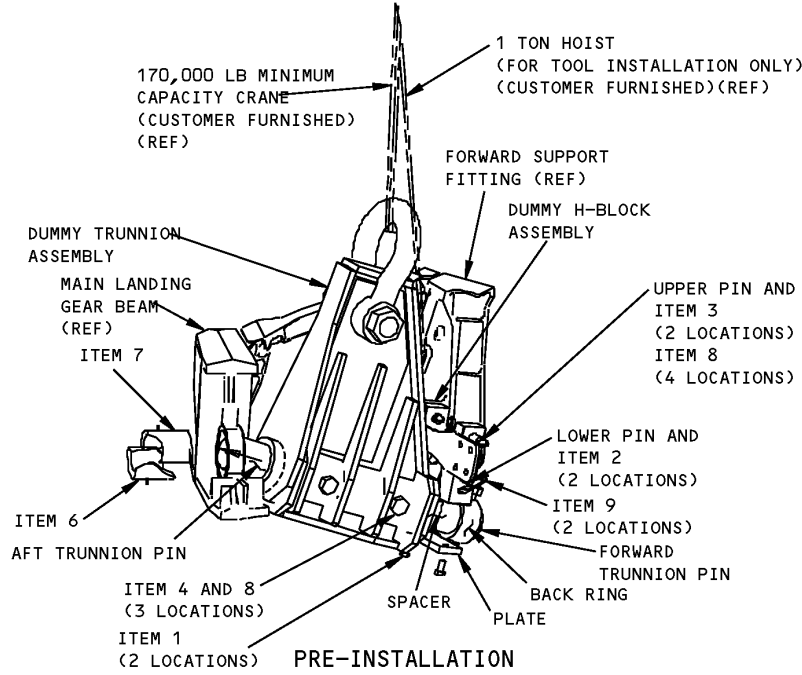
**WEIGHT:** A07011-1 - 1400 lbs (635 kg)  
A07011-2 - 1000 lbs (454 kg)

**DIMENSIONS:** A07011-1 - 30 x 40 x 50 inches (762 x 1016 x 1270 mm)  
A07011-2 - 16 x 37 x 68 inches (406 x 940 x 1727 mm)

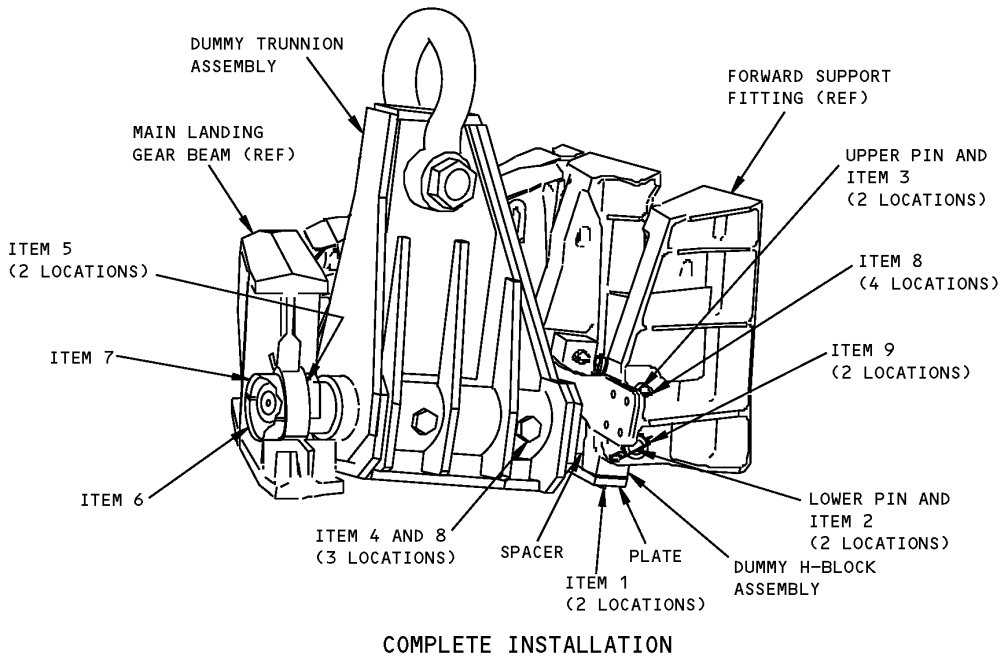


**(Without) Main Landing Gear Airplane Recovery Hoist Equipment  
Figure 1 (Sheet 1 of 3)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**(Without) Main Landing Gear Airplane Recovery Hoist Equipment  
Figure 1 (Sheet 2 of 3)**



**(Without) Main Landing Gear Airplane Recovery Hoist Equipment  
Figure 1 (Sheet 3 of 3)**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A07011-6	SCREW	
2	A07011-8	LOWER PIN BUSHING	
3	A07011-10	UPPER PIN BUSHING	
4	A07011-11	BLANK BOLT	
5	A07011-12	CAP SCREW	
6	A07011-18	LOWER DUMMY BUSHING ASSEMBLY	
7	A07011-19	UPPER DUMMY BUSHING ASSEMBLY	
8	033-101	WIRE LOCK PIN	V6F724
9	034-E05	SAFETY PIN	V6F724



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32114-64**

**NAME:** TRUCK POSITION RETAINER AND OLEO LOCK EQUIPMENT - MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32114-64 truck position retainer and oleo lock equipment is applicable to 767-400 airplanes. A32114 is used to hold the shock strut in proper position to allow gear removal, installation and storage. Refer to AMM 32-11-01, AMM 32-11-02 and AMM 32-11-18 and CMM 32-11-36 for complete usage instructions. A32114-64 consists of:

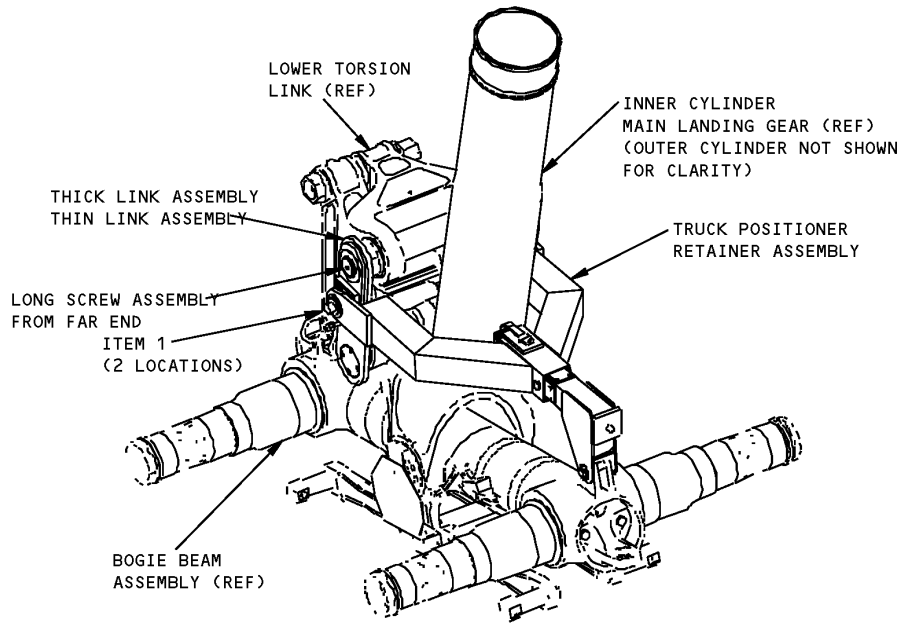
A32114-64		
QUANTITY	NOMENCLATURE	PART NUMBER
1	TRUCK POSITIONER RETAINER ASSEMBLY	A32114-65
1	THICK LINK ASSEMBLY	A32114-97
1	THIN LINK ASSEMBLY	A32114-66
1	HEX BAR	A32114-6
2	SCREW	A32114-7
1	LONG SCREW ASSEMBLY	A32114-95
1	STORAGE BOX	

**WEIGHT:** 70 lbs (32 kg)

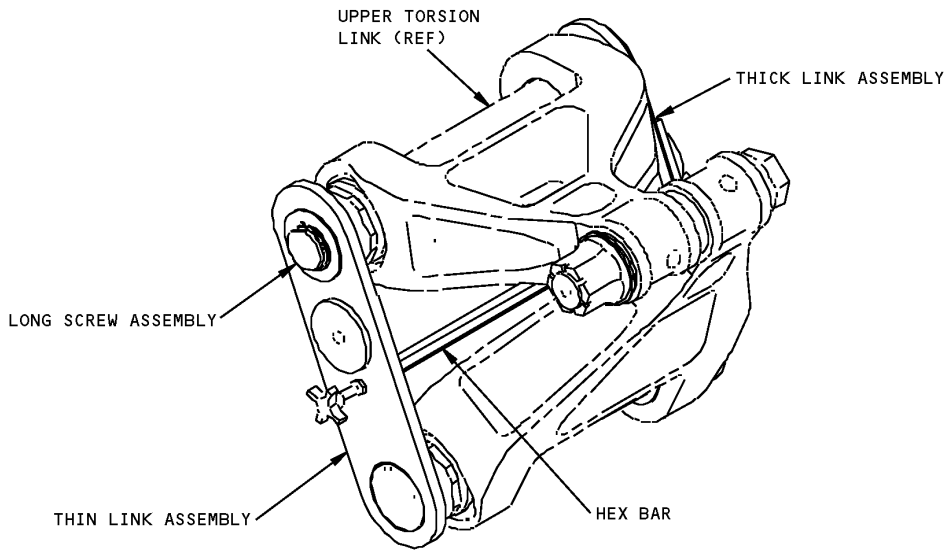
**DIMENSIONS:** 20 x 40 x 70 inches (508 x 1016 x 1778 mm)

**NOTE:** A32114-64 supersedes A32114-1.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Truck Position Retainer and Oleo Lock Equipment  
Figure 1 (Sheet 1 of 2)**



**Main Landing Gear Truck Position Retainer and Oleo Lock Equipment  
Figure 1 (Sheet 2 of 2)**



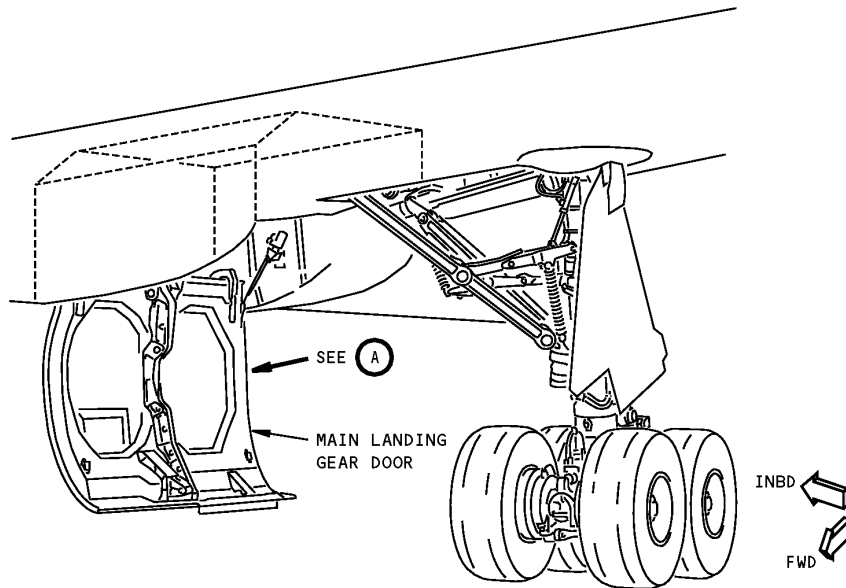
767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
	A32114-1	SCREW	



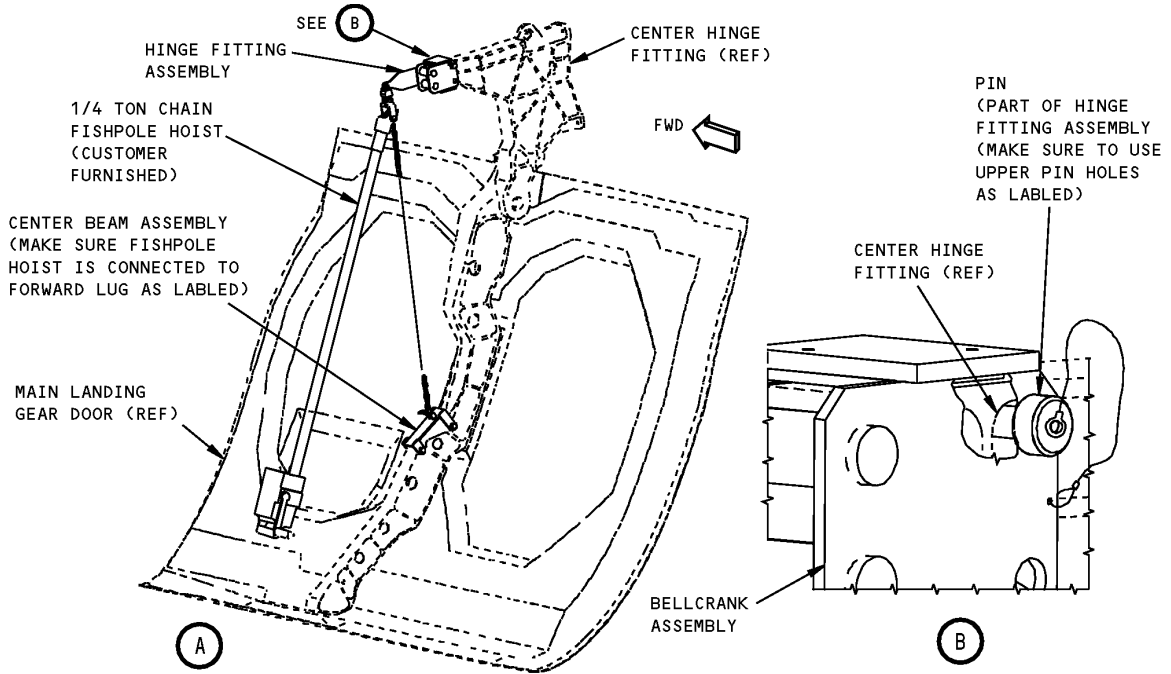
## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32118-1****NAME:** FISHPOLE HOIST ATTACH BRACKET EQUIPMENT - MAIN LANDING GEAR (MLG) DOOR**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** NO**USAGE & DESCRIPTION:** The A32118-1 fishpole hoist attach bracket equipment is used on 767-400 airplanes. A32118 is used with a 1/4 ton chain fishpole to remove and install the main landing gear door of the airplane. Refer to AMM 32-12-01 for complete usage instructions. A32118-1 consists of a A32118-3 hinge fitting assembly and a A32118-4 center beam assembly, both contained in a storage box.**WEIGHT:** 15 lbs (7 kg)**DIMENSIONS:** 5 x 6 x 12 inches (127 x 152 x 305 mm)

LEFT MAIN LANDING GEAR WHEEL WELL  
(RIGHT MAIN LANDING GEAR WHEEL WELL IS OPPOSITE)

**Main Landing Gear Door Fishpole Hoist Attach Bracket Equipment  
Figure 1 (Sheet 1 of 2)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Door Fishpole Hoist Attach Bracket Equipment  
Figure 1 (Sheet 2 of 2)**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32121-1**

**NAME:** FIXTURE EQUIPMENT - LANDING GEAR ACTUATOR ASSEMBLIES

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32121-1 fixture equipment is used on 767-400 airplanes. A32121 is used to assemble and align main landing gear door actuator; tailskid actuator; door lath actuator; truck positioner actuator; main landing gear side brace downlock actuator and main landing gear drag brace downlock actuator. Refer to CMM 32-32-29, CMM 32-32-35, CMM 32-32-40, CMM 32-32-44, CMM 32-32-64, CMM 32-32-66, CMM 32-35-84 and CMM 32-71-12 for complete usage instructions. A32121-1 consists of:

A32121-1		
QUANTITY	NOMENCLATURE	VENDOR CODE
1	LARGE BASE ASSEMBLY	A32121-2
1	SMALL BASE ASSEMBLY	A32121-3
1	DOOR LATCH ASSEMBLY	A32121-4
2	6.5 KNOB ASSEMBLY	A32121-5
2	7.5 KNOB ASSEMBLY	A32121-6
2	9.5 KNOB ASSEMBLY	A32121-7
1	SIDE/DRAG BLOCK ASSEMBLY	A32121-8
2	V-BLOCK ASSEMBLY	A32121-9
2	V-BLOCK ASSEMBLY	A32121-10
1	DOOR ACTUATOR ANGLE 1	A32121-11
1	TAILSKID ANGLE 1	A32121-12
1	TRUCK POSITIONER ANGLE 1	A32121-13
1	ALTERNATE/EXTEND ANGLE	A32121-14
1	DOOR ACTUATOR ANGLE 2	A32121-15
1	TAILSKID ANGLE 2	A32121-16
1	SIDE BRACE ANGLE	A32121-17
1	TRUCK POSITIONER ANGLE 2	A32121-18
1	DRAG BRACE ANGLE	A32121-19
1	SMALL BASE V-BLOCK	A32121-20
2	LARGE BASE V-BLOCK	A32121-21
2	KNURL PIN	A32121-22



767

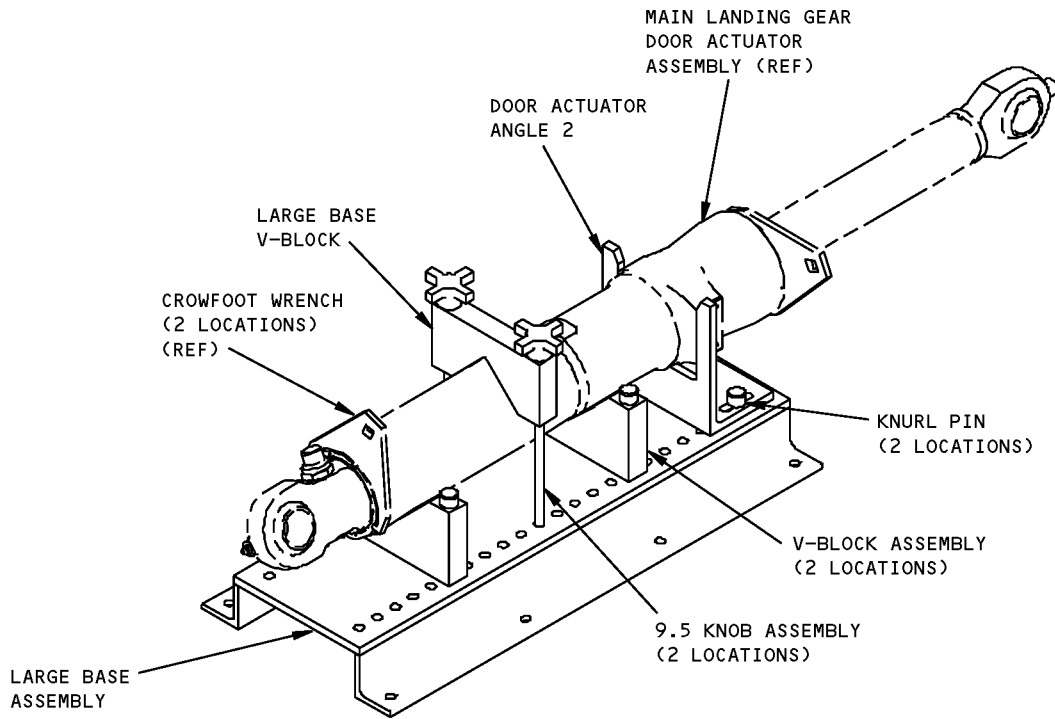
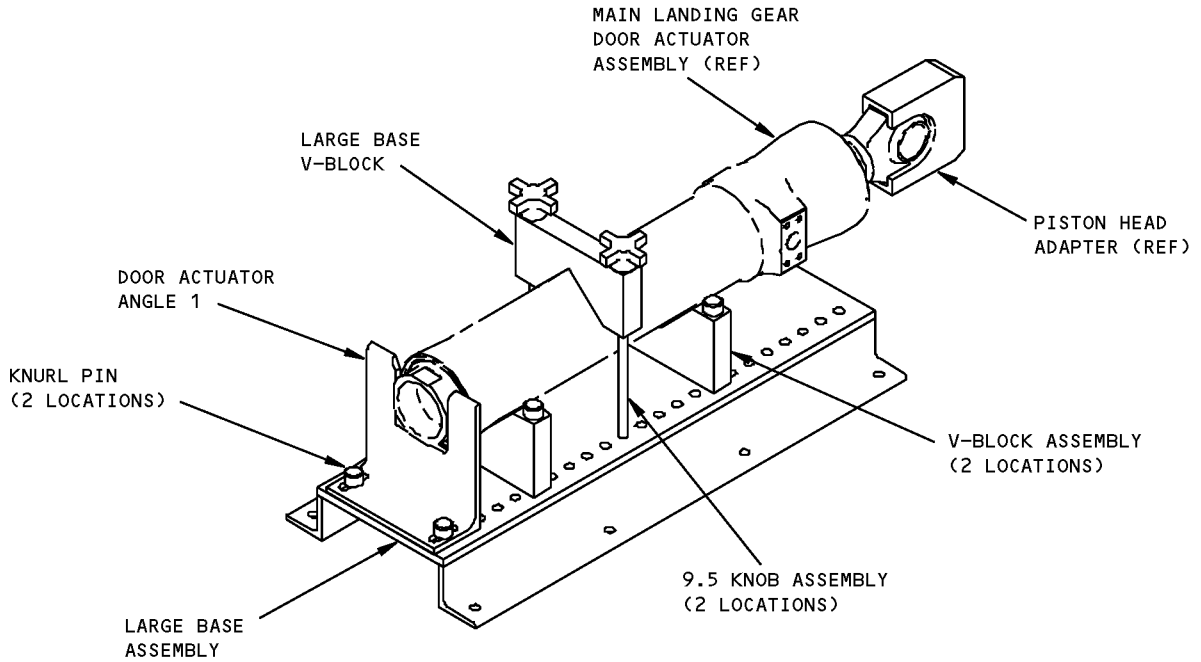
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

A32121-1		
QUANTITY	NOMENCLATURE	VENDOR CODE
2	KNURL PIN	A32121-23
1	STORAGE BOX	

**WEIGHT:** 81 lbs (37 kg)

**DIMENSIONS:** 10 x 13 x 25 inches (254 x 330 x 635 mm)

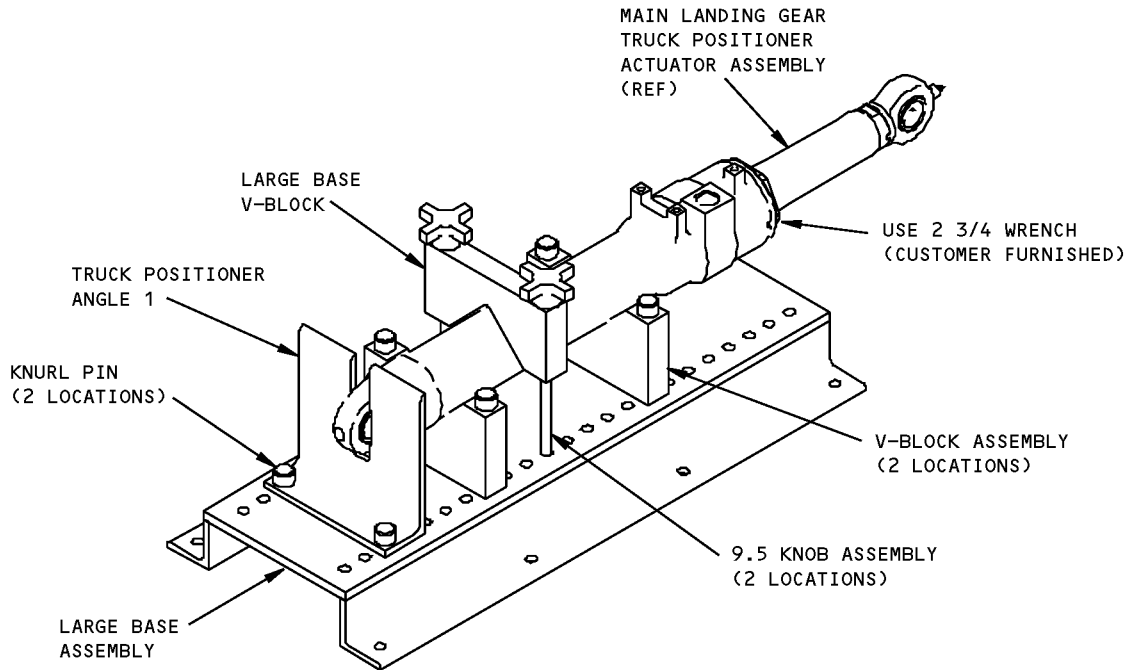
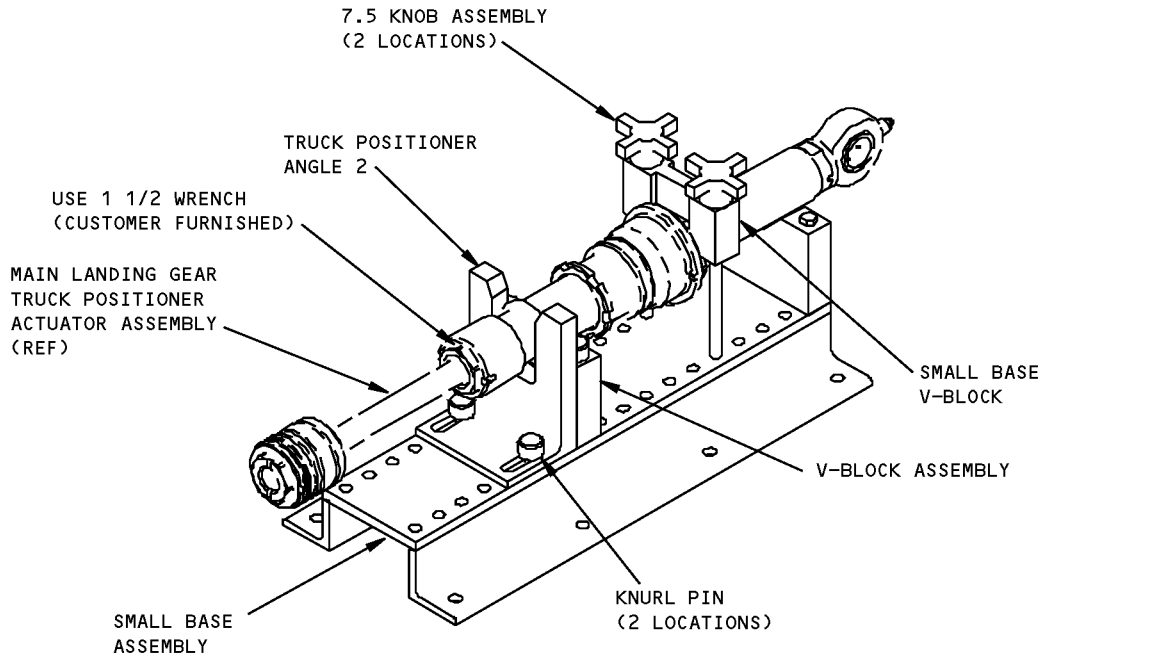
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**MAIN LANDING GEAR DOOR ACTUATOR**

**Landing Gear Actuator Assemblies Fixture Equipment  
Figure 1 (Sheet 1 of 8)**

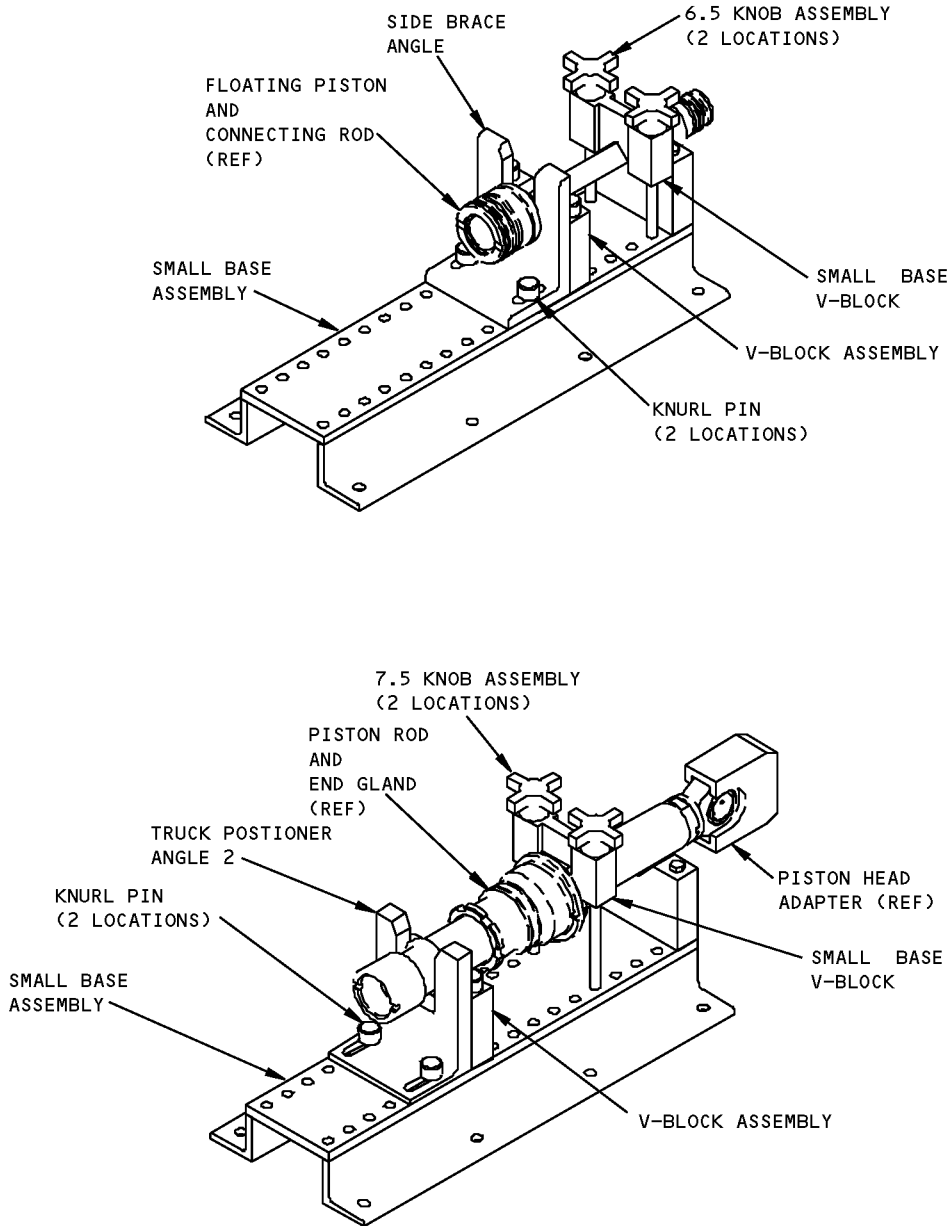
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**MAIN LANDING GEAR TRUCK POSITIONER**

**Landing Gear Actuator Assemblies Fixture Equipment  
Figure 1 (Sheet 2 of 8)**

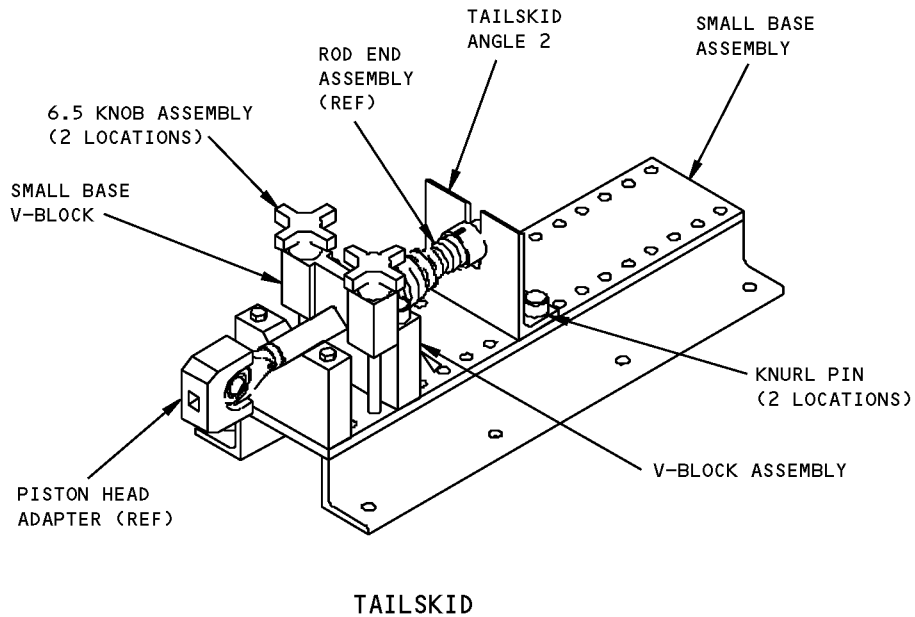
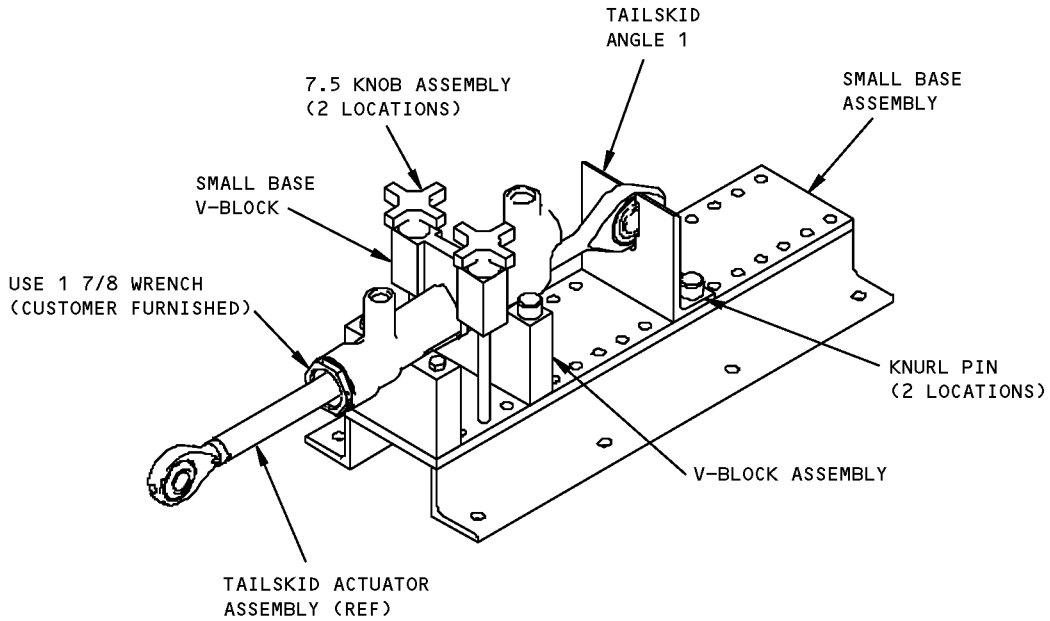
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**MAIN LANDING GEAR TRUCK POSITIONER**

**Landing Gear Actuator Assemblies Fixture Equipment  
Figure 1 (Sheet 3 of 8)**

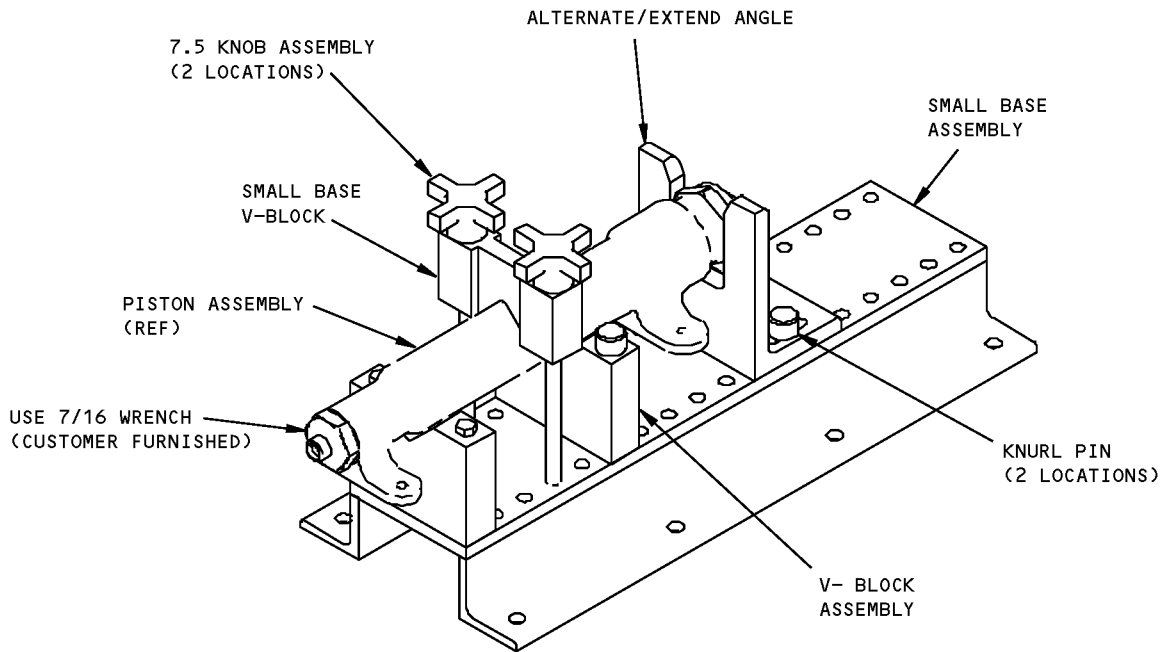
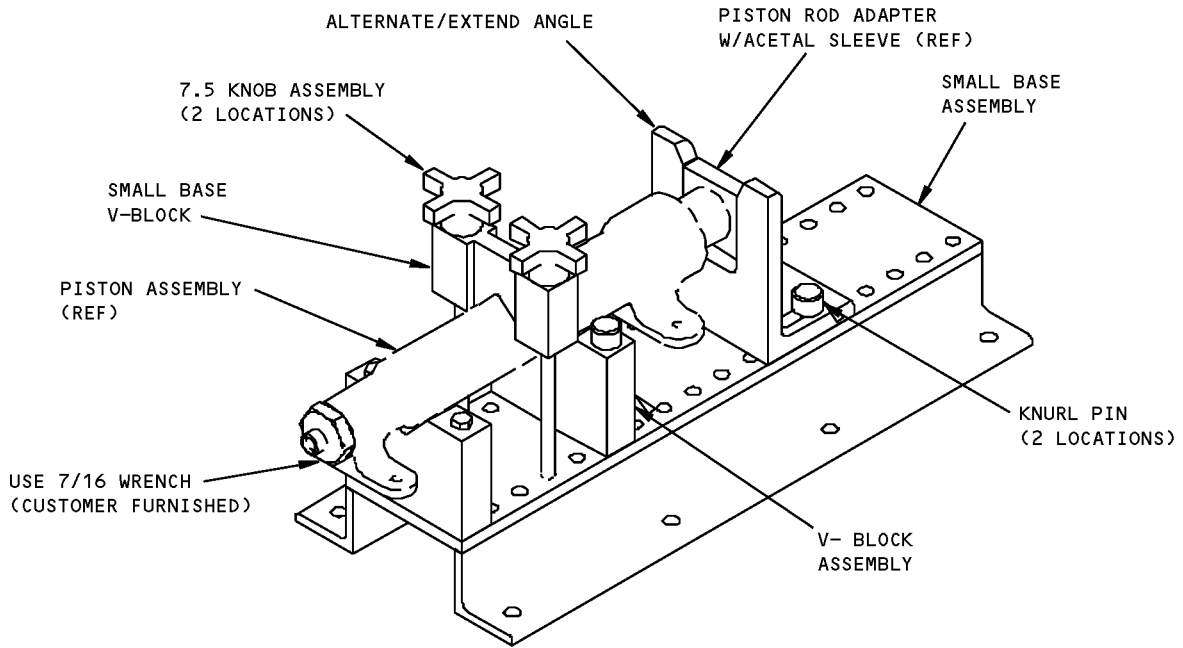
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Landing Gear Actuator Assemblies Fixture Equipment  
Figure 1 (Sheet 4 of 8)**



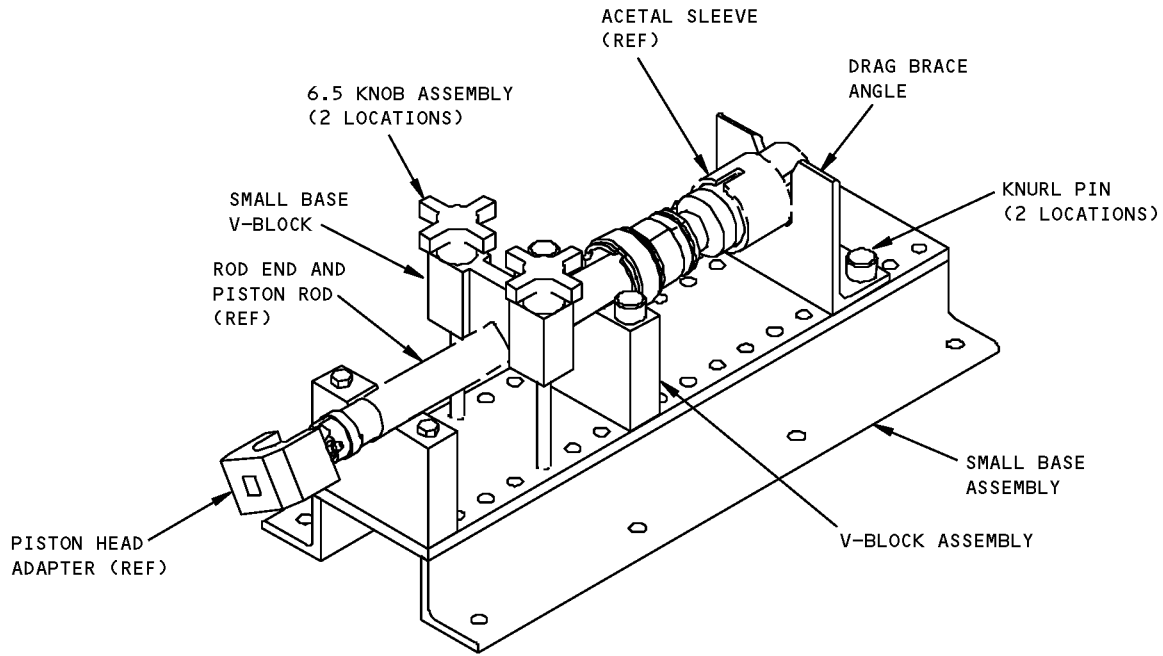
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



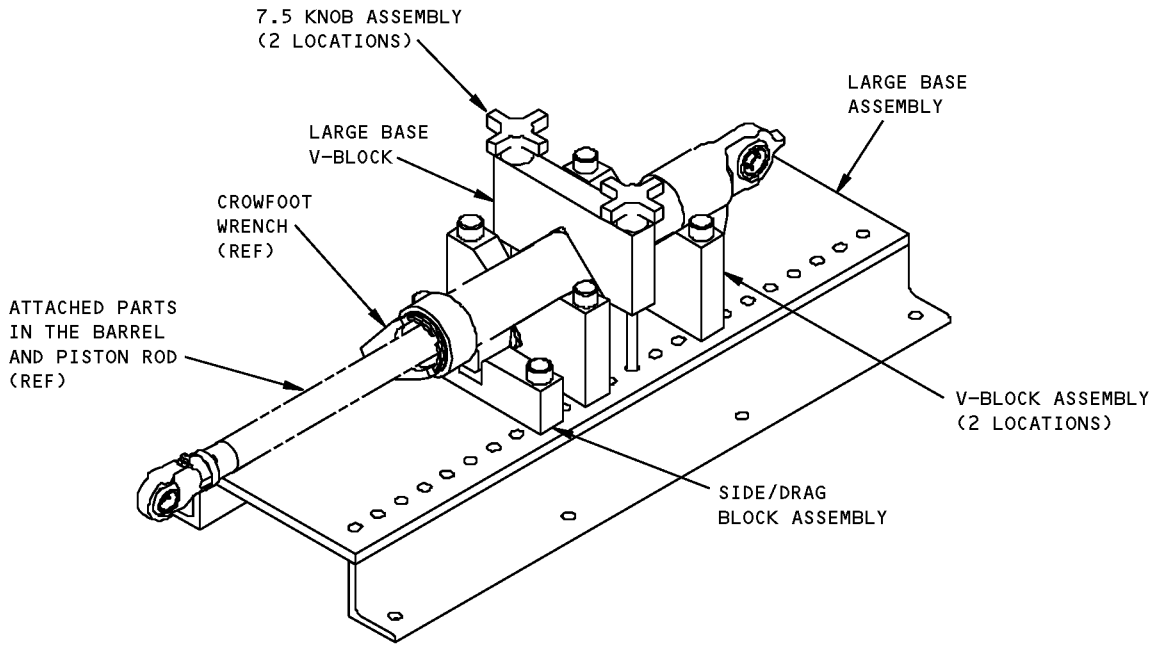
**MAIN LANDING GEAR ALTERNATE/EXTEND**

**Landing Gear Actuator Assemblies Fixture Equipment  
Figure 1 (Sheet 5 of 8)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



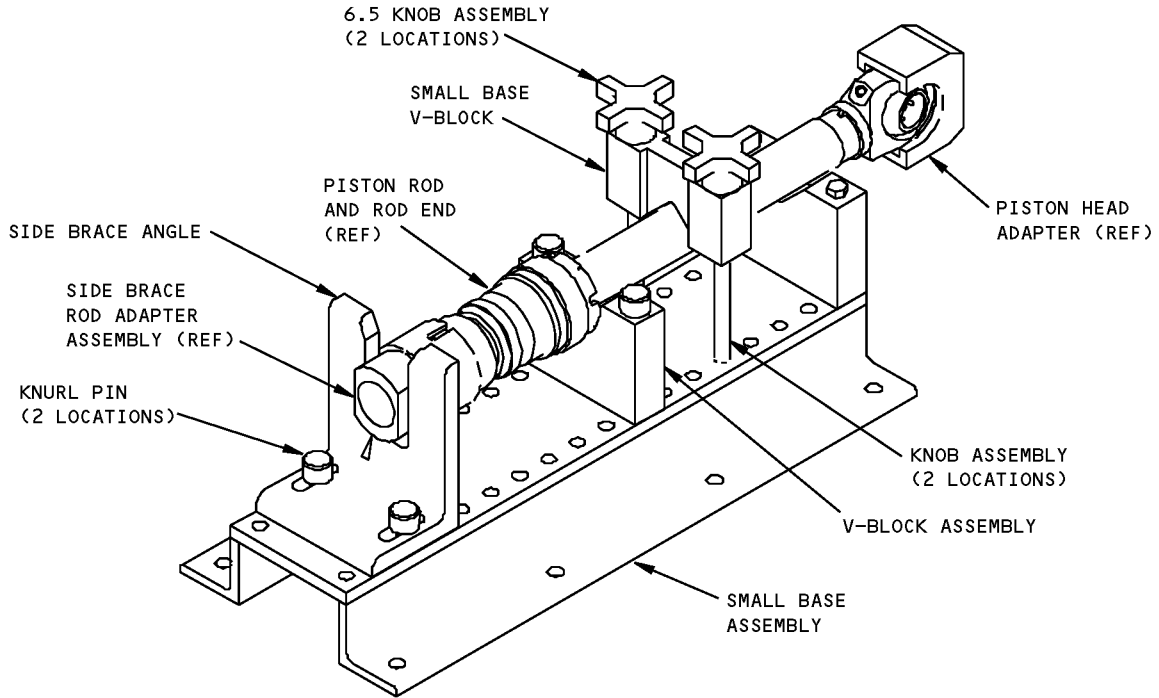
**MAIN LANDING GEAR DOWNLOCK DRAG BRACE ROD**



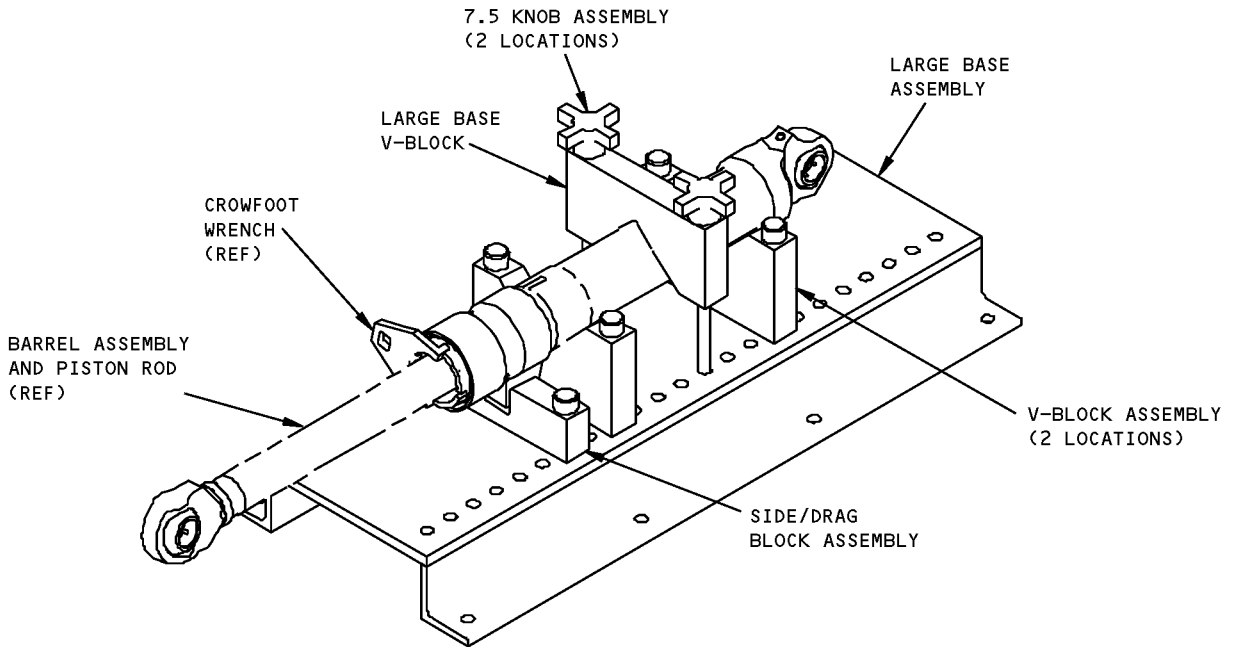
**MAIN LANDING GEAR DOWNLOCK DRAG BRACE BARREL**

**Landing Gear Actuator Assemblies Fixture Equipment  
Figure 1 (Sheet 6 of 8)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

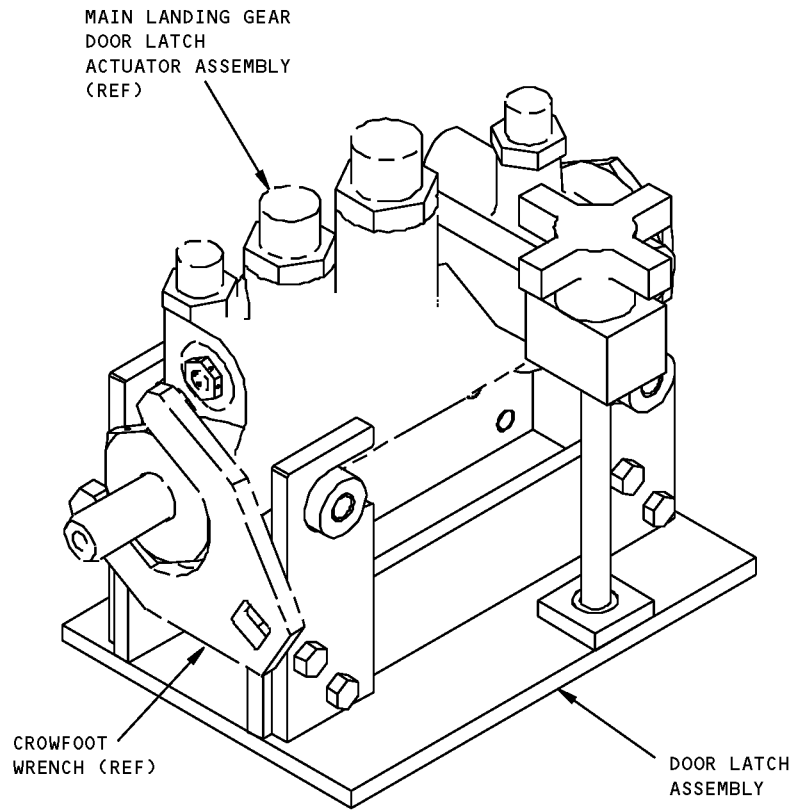


**MAIN LANDING GEAR DOWNLOCK SIDE BRACE ROD**



**MAIN LANDING GEAR DOWNLOCK SIDE BRACE BARREL**

**Landing Gear Actuator Assemblies Fixture Equipment  
Figure 1 (Sheet 7 of 8)**



**MAIN LANDING GEAR DOOR LATCH**

**Landing Gear Actuator Assemblies Fixture Equipment  
Figure 1 (Sheet 8 of 8)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32011-1**

**NAME:** PULLER - TRUNNION PINS, NOSE LANDING GEAR

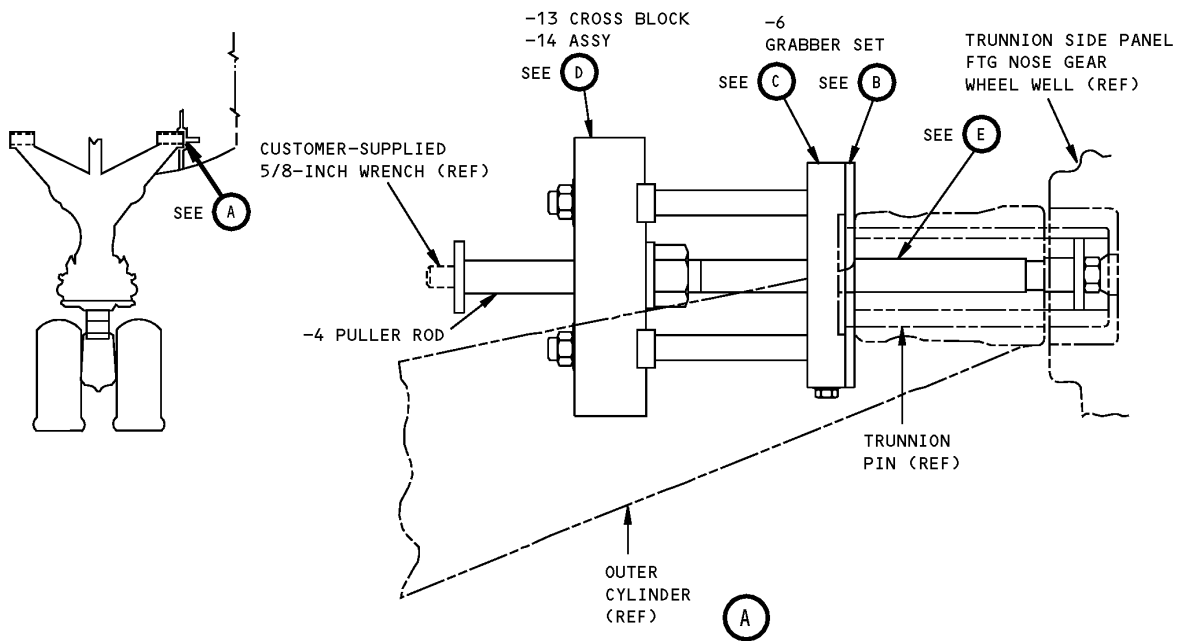
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32011-1 trunnion pins puller is used on all 767 airplanes. The tool is used for removal of the trunnion pins from the nose landing gear shock strut assembly. Refer to AMM 32-21-01 and current A32011 drawing for complete usage instructions. A32011-1 consists of an A3011-2 puller assembly contained in a storage box.

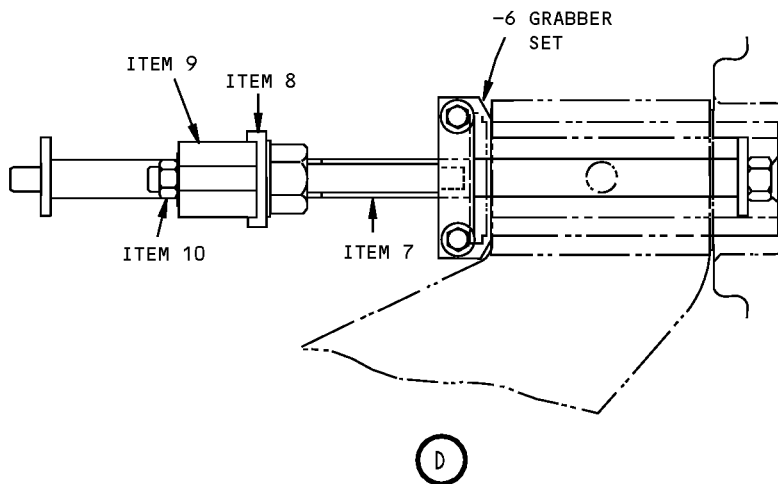
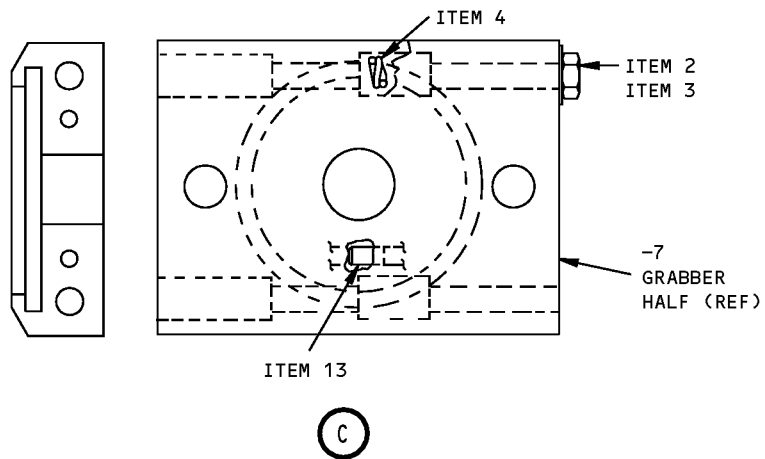
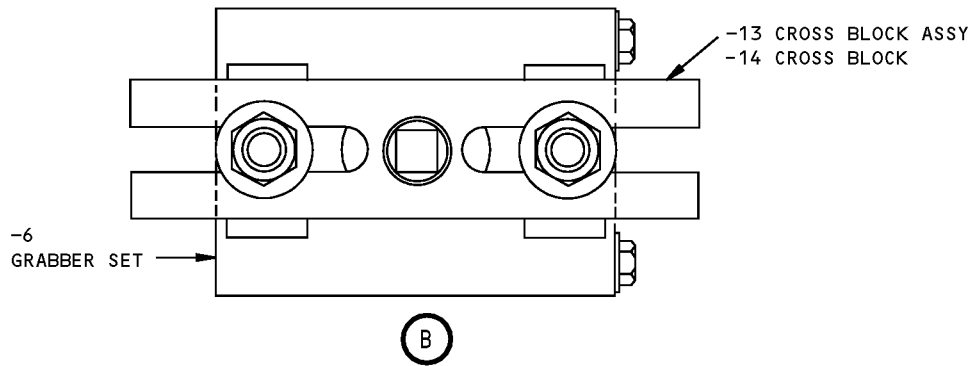
**WEIGHT:** 25 lbs (11 kg)

**DIMENSIONS:** 8 x 10 x 24 inches (203 x 254 x 559 mm)



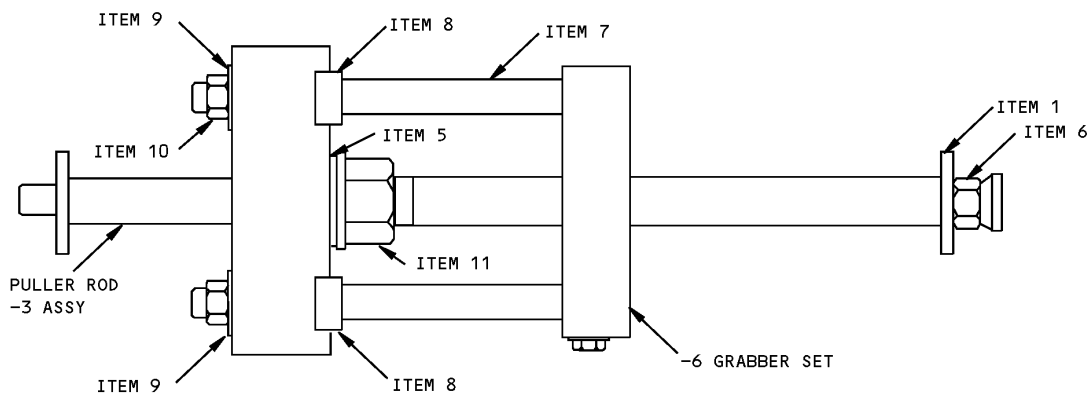
**Nose Landing Gear Trunnion Pins Puller  
Figure 1 (Sheet 1 of 3)**

**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Nose Landing Gear Trunnion Pins Puller  
Figure 1 (Sheet 2 of 3)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



(E)

Nose Landing Gear Trunnion Pins Puller  
Figure 1 (Sheet 3 of 3)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32011-5	GUIDE WASHER	
2	A32011-10	HEX HEAD SCREW	
3	A32011-11	WASHER	
4	A32011-12	RETAINER	
5	A32011-16	WASHER	
6	43507	TOGGLE PAD	V94882
7	1107	PULLER LEG	V2T258
8	24825	SLIDING PLATE	V2T258
9	24826	WASHER	V2T258
10	10215	HEX NUT	V2T258
11	20109	HEX FLANGE NUT	V2T258
12	NAS607-4-4-P	DOWEL PIN	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32013-1**

**NAME:** PIN PULLER - UPPER DRAG BRACE, NOSE LANDING GEAR

**AIRPLANE MAINTENANCE:** YES

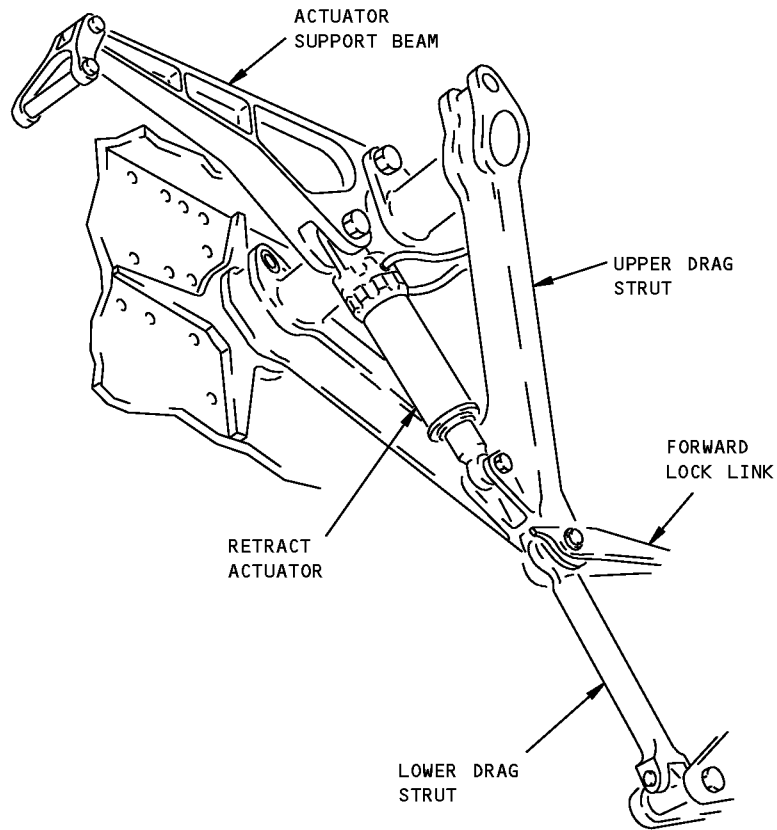
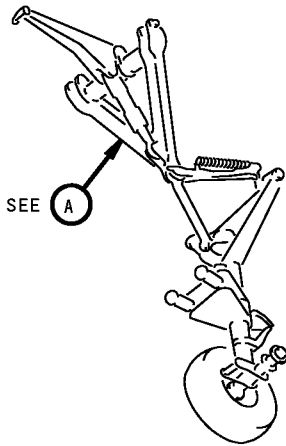
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32013-1 pin puller is used on all 767 airplanes. A32013-1 is used to remove and install two trunnion pins (162T2007-1 and -2) in the upper drag brace of the nose landing gear. A 3/4 inch socket wrench and a 1 3/8 inch open end wrench operate the A32013-12 torquing rod and the A32013-10 puller rod which are threaded through the drag brace onto the mounting pins. The A32013-3 set assembly is a locator that grips the pin while the A32013-13 bearing pad protects the drag brace surface. Refer to AMM 32-21-03, AMM 32-21-05, AMM 32-71-06 and AMM 32-71-08 for complete usage instructions. A32013-1 consists of a A32013-2 puller assembly contained in a storage box.

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

**DIMENSIONS:** 6 x 8 x 15 inches (152 x 203 x 381 mm)



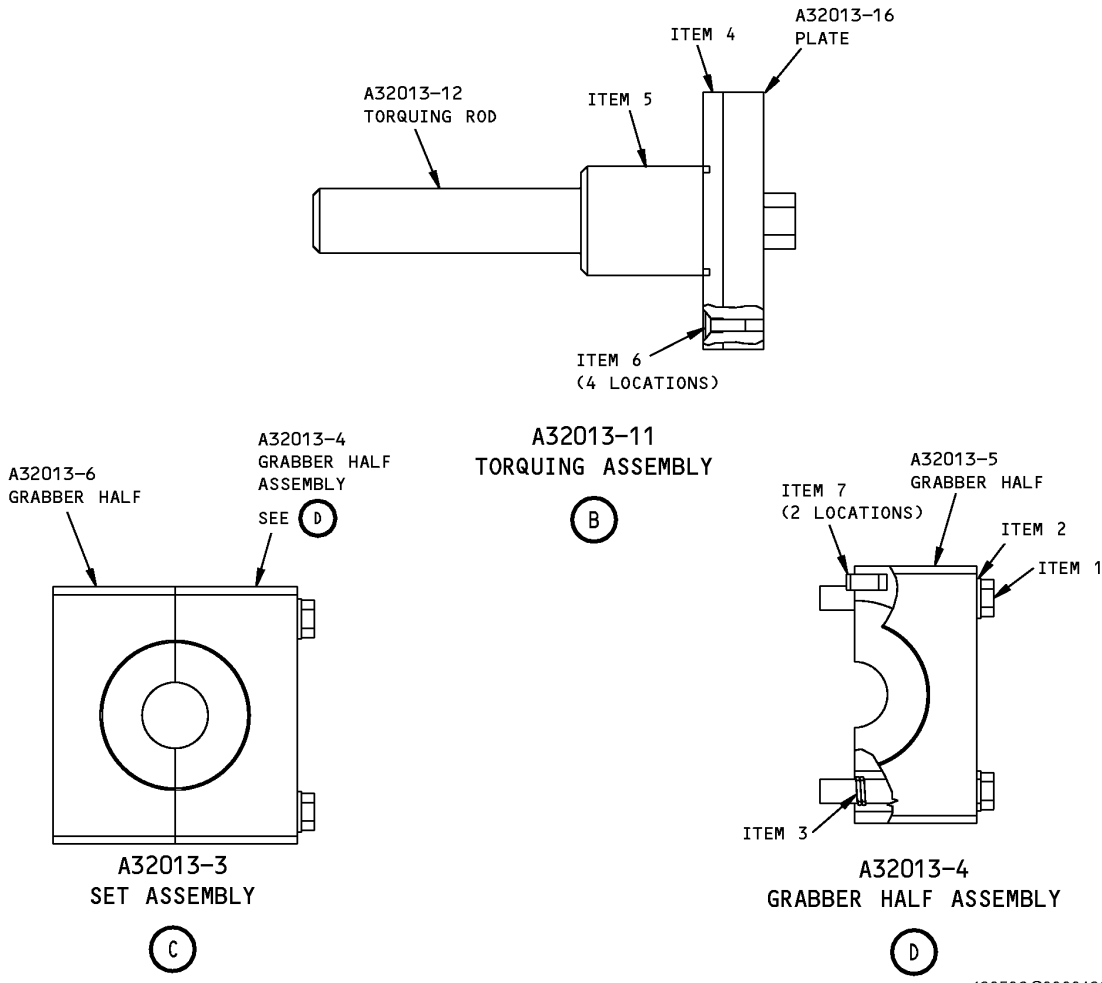


A

L79677 S0000192959\_V2

**Nose Landing Gear Upper Drag Brace Pin Puller  
Figure 1 (Sheet 1 of 2)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



490506 S0000192961\_V2

**Nose Landing Gear Upper Drag Brace Pin Puller**  
**Figure 1 (Sheet 2 of 2)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32013-7	HEX HEAD SCREW	
2	A32013-8	WASHER	
3	A32013-9	RETAINER	
4	A32013-13	BEARING PAD	
5	A32013-14	BUSHING	
6	MS24693-273B	SCREW	
7	NAS607-4-4P	DOWEL PIN	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32014-1, -2**

**NAME:** DOWNLOCK - MAIN LANDING GEAR (MLG) AND NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** A32014-1 and -2 downlocks are used on all 767 airplanes. A32014-1 is used as a downlock landing gear pin for the main gear. The A32014-2 is used as a downlock pin for the nose gear. There is one A32014-1 per assembly, a set of four A32014-1 assemblies are required for the airplane. There is one A32014-2 per assembly and only one is required. The A32014-1 assemblies nest in four locations in the main landing gear side strut. The A32014-2 assembly nests in one location in the nose landing gear strut. Both the -1 and -2 pins are part of the 767 flyaway kit. Both the A32014-1 and -2 assemblies use the installation/removal tool A32015-9. Refer to AMM 32-00-20, AMM 32-22-01, AMM 32-22-02 and AMM 32-22-04 for complete usage instructions. A32014-1 and -2 consist of:

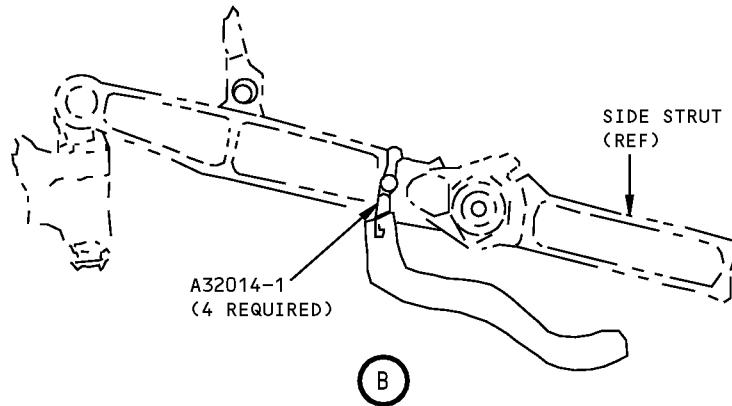
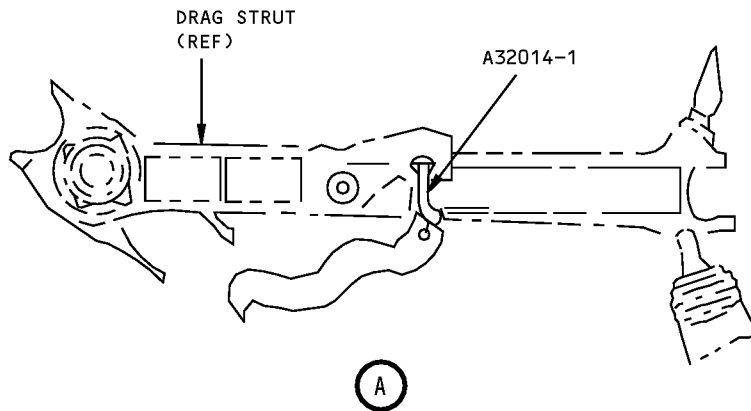
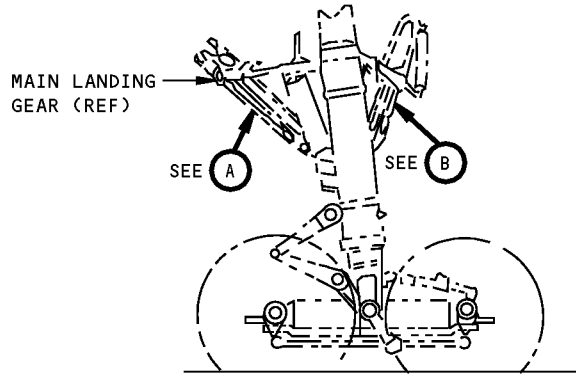
A32014-1		
QUANTITY	NOMENCLATURE	PART NUMBER
4	SPLIT RING	A32014-3
4	BALL LOCK PIN	BLC10GT76
4	WARNING STREAMER	NAS1089-36

A32014-2		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SPLIT RING	A32014-3
1	BALL LOCK PIN	BLC8GT25
1	WARNING STREAMER	NAS1089-36

**WEIGHT:** A32014-1 - 1 lb (0.5 kg)  
A32014-2 - 1 lb (0.5 kg)

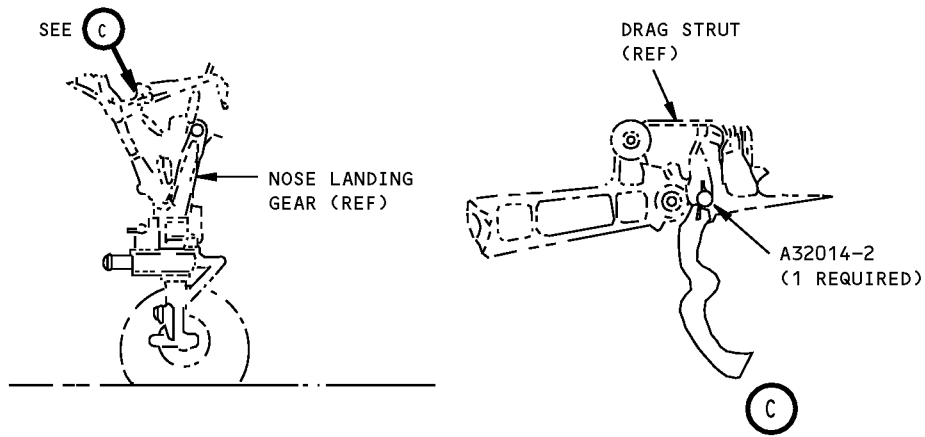
**DIMENSIONS:** A32014-1 - 3 x 3 x 10 inches (76 x 76 x 254 mm)  
A32014-2 - 3 x 3 x 5 inches (76 x 76 x 127 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

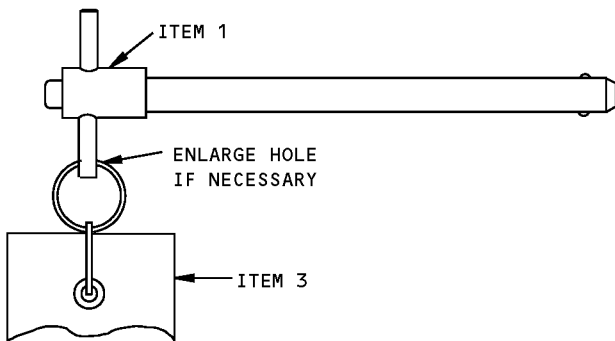


**Main Landing Gear and Nose Landing Gear Downlock  
Figure 1 (Sheet 1 of 2)**

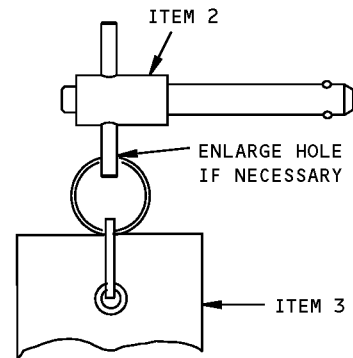
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**DOWNLOCK - NOSE LANDING GEAR  
(USE A32015 LOCKPIN INSTALLATION/REMOVAL TOOL)**



**A32015-1 ASSEMBLY**



**A32015-2 ASSEMBLY**

**Main Landing Gear and Nose Landing Gear Downlock  
Figure 1 (Sheet 2 of 2)**



767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	BLC10GT76	BALL LOCK PIN	V84256
2	BLC8GT25	BALL LOCK PIN	V84256
3	NAS1089-36	WARNING STREAMER	

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32021-1**

**NAME:** WRENCH ADAPTER - GLAND NUT, NOSE LANDING GEAR

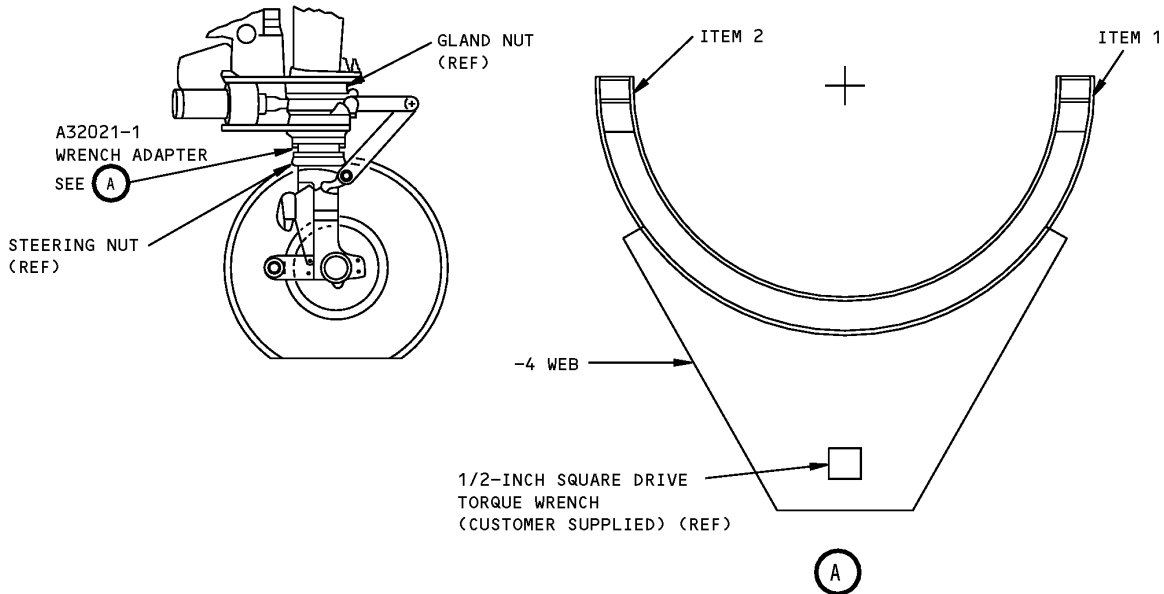
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32021-1 wrench adapter is used on all 767 airplanes. A32021 is used to remove and install the nose gear gland nut. A32021 is used in conjunction with a customer-furnished 1/2-inch square drive socket torque wrench. A32021 is a clevis yoke which locates and locks in the gland nut. Refer to AMM 32-21-25, AMM 32-21-26, CMM 32-21-43 and CMM 32-21-47 for complete usage information. The A32021-1 wrench adapter assembly is the complete tool.

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

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



**Nose Landing Gear Gland Nut Wrench Adapter  
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32021-5	PAD	



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
2	A32021-6	PAD	



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32022-1**

**NAME:** PROTECTOR - AXLE, NOSE LANDING GEAR (NLG)

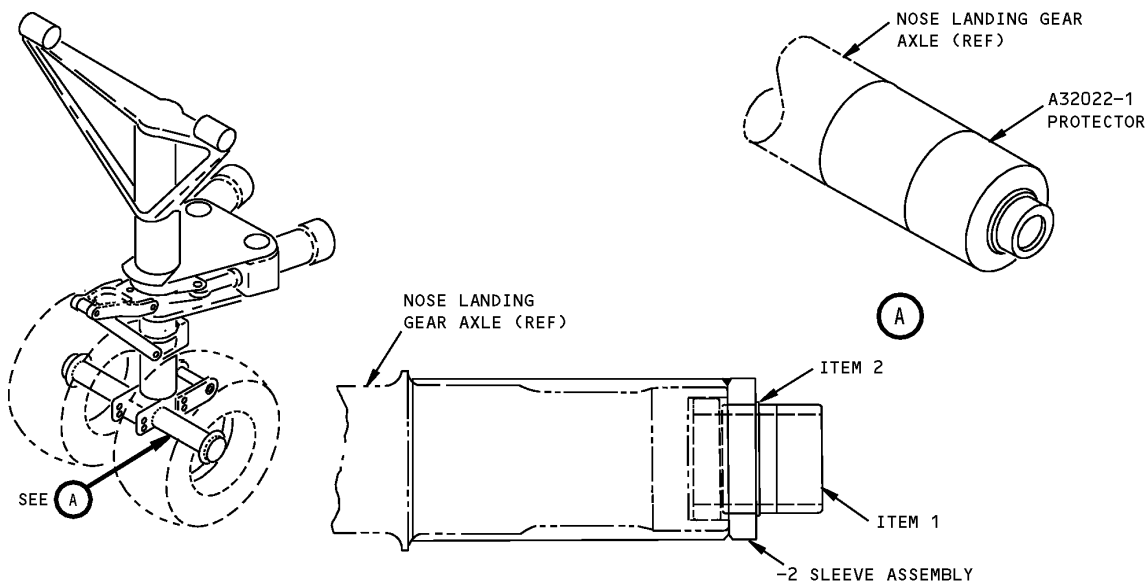
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32022-1 protector is used on 767 airplanes with internally threaded NLG axle prior to line number 360. A32097 is used on 767 airplanes with externally threaded axles. A32022 is used to protect the nose landing gear axle and axle internal threads during maintenance of the nose wheel and nose wheel bearings. A32022 is positioned on the axle only after both the nose wheel and nose wheel bearing have been removed. Refer to AMM 32-45-02 for complete usage instructions. A32022-1 consists of an A32022-2 sleeve assembly.

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

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



**Nose Landing Gear Axle Protector  
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32022-5	NUT	



767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
2	5100-300	SNAP RING	V79136



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32018-1**

**NAME:** SPRING EXTENDER - LOCK LINK, NOSE LANDING GEAR

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

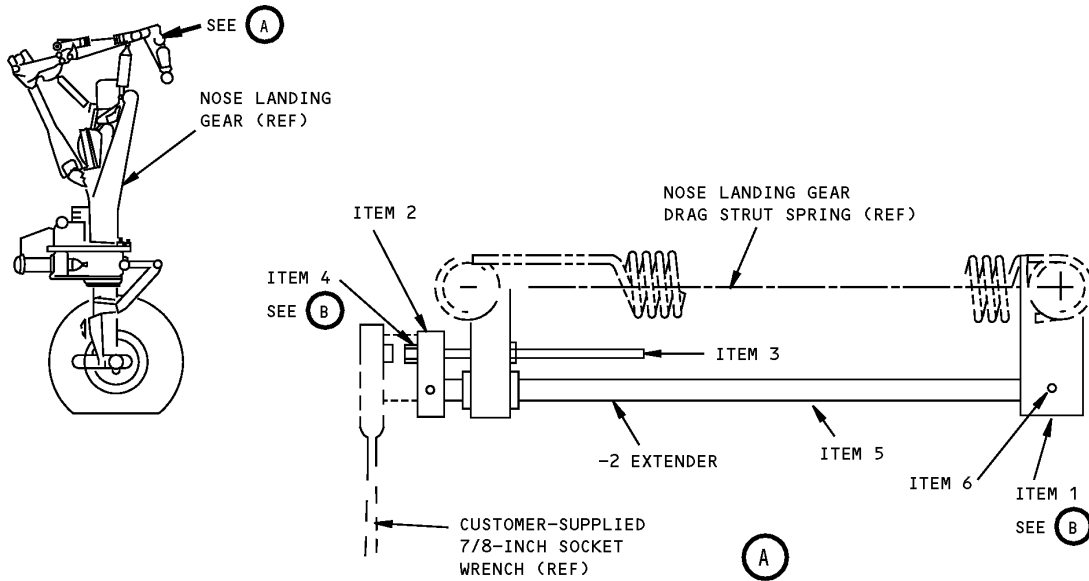
**USAGE & DESCRIPTION:** The A32018-1 spring extender may be used on 767 airplanes in production blocks V0001-V0205, V1001-V1043 and V2001-V2052. A32018 is used to expand and hold the down lock spring of the lock link assembly in the nose landing gear in the down position during removal or installation. Refer to AMM 32-21-09 and CMM 32-21-54 for complete usage instructions. A32018-1 consists of an A32018-2 spring extender assembly contained in a storage box.

**WEIGHT:** 17 lbs (8 kg)

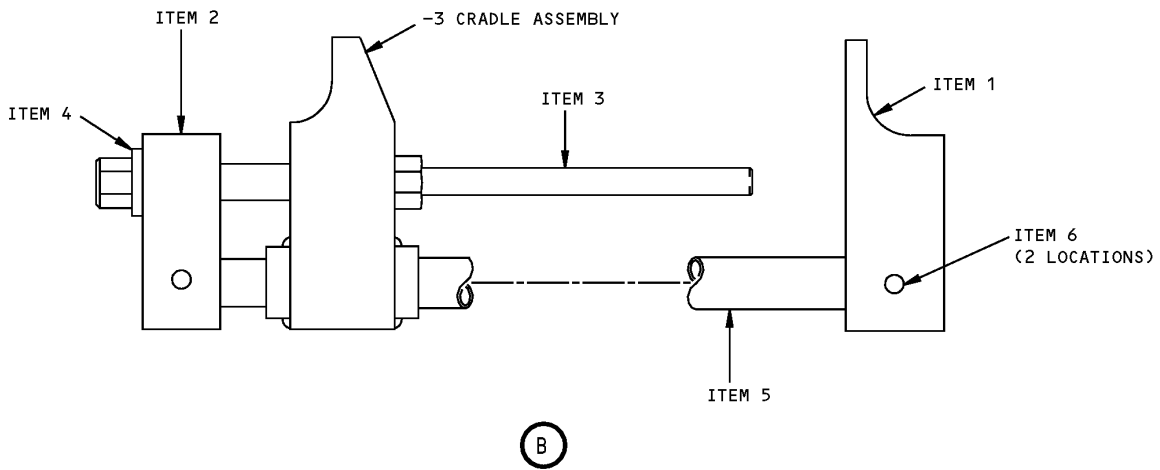
**DIMENSIONS:** 6 x 10 x 30 inches (152 x 254 x 762 mm)

**NOTE:** A32099 replaces A32018 for future procurement on airplanes V0001-V0205, V1001-V1043, V2001-V2052.  
A32099 supersedes A32018 for airplanes V0206-V1000, V1044-V2000, V2053-V5999.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Nose Landing Gear Lock Link Spring Extender  
Figure 1 (Sheet 1 of 2)**



**Nose Landing Gear Lock Link Spring Extender  
Figure 1 (Sheet 2 of 2)**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32018-4	CRADLE	
2	A32018-5	BLOCK	
3	A32018-6	SCREW	
4	A32018-7	WASHER	
5	A32018-8	SHAFT	
6	MS16562-79	SPRING PIN	



767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32019-1 WAS DELETED**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32020-1**

**NAME:** HOIST ADAPTER - DRAG STRUT, NOSE LANDING GEAR

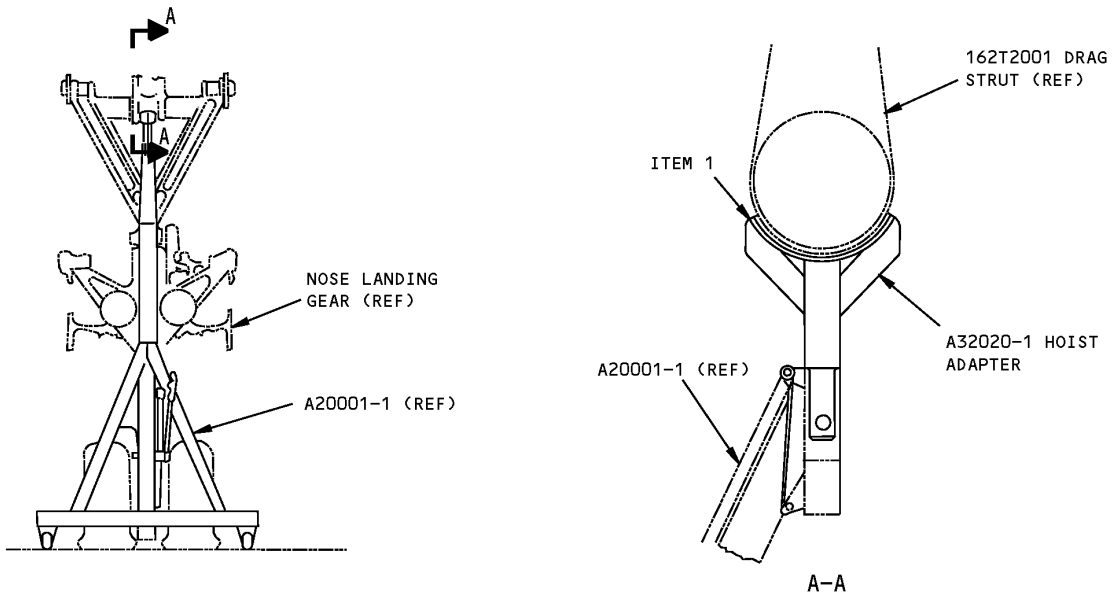
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32020-1 hoist adapter is used on all 767 airplanes. A32020 is used with a customer-furnished A20001 hoist to lift and position the landing gear drag strut for removal or installation. The weight of the landing gear drag strut is 291 lbs. A32020 is a padded sleeve (A32020-2 saddle assembly) which cradles the landing gear drag strut. Gussets brace and attach the sleeve to the boom connecting bar, which locates onto the A20001 hoist. Refer to AMM 32-21-03 and AMM 32-21-05 for complete usage instructions. A32020-1 consists of an A32020-2 saddle assembly.

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

**DIMENSIONS:** 5 x 8 x 12 inches (127 x 203 x 305 mm)



**Nose Landing Gear Drag Strut Hoist Adapter  
Figure 1**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32020-6	PAD	V95696



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32023-1**

**NAME:** SLING - RETRACT ACTUATOR, NOSE LANDING GEAR (NLG)

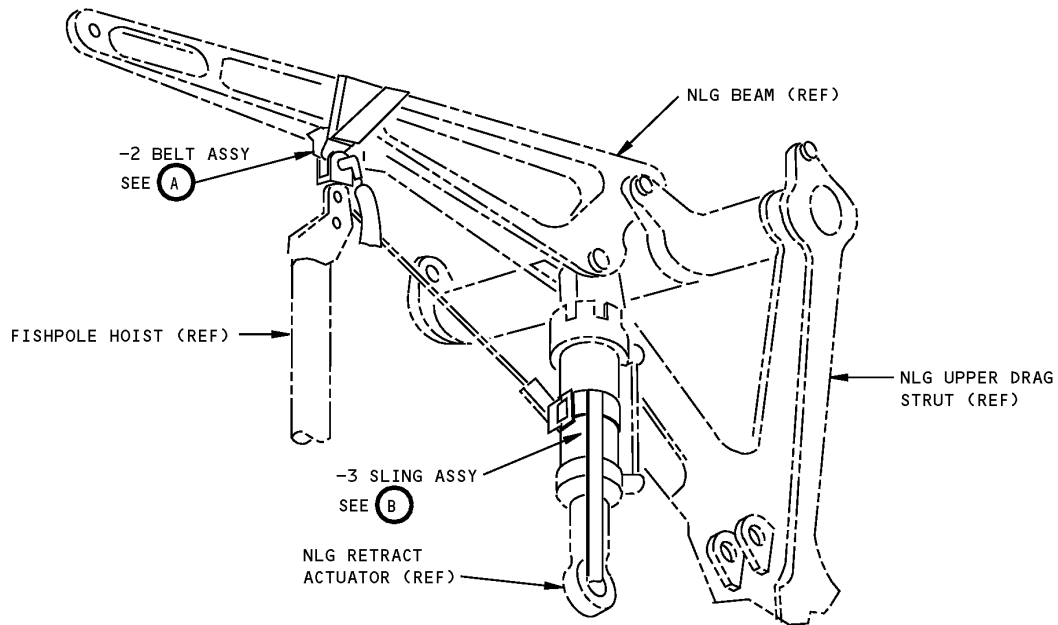
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32023-1 sling is used on all 767 airplanes. A32023 is used with a customer-furnished fishpole hoist, to assist in removal and installation of the nose landing gear retract actuator. Refer to AMM 32-34-01 for complete usage instructions. A32023-1 consists of a A32023-2 belt assembly and a A32023-3 sling assembly contained in a storage box.

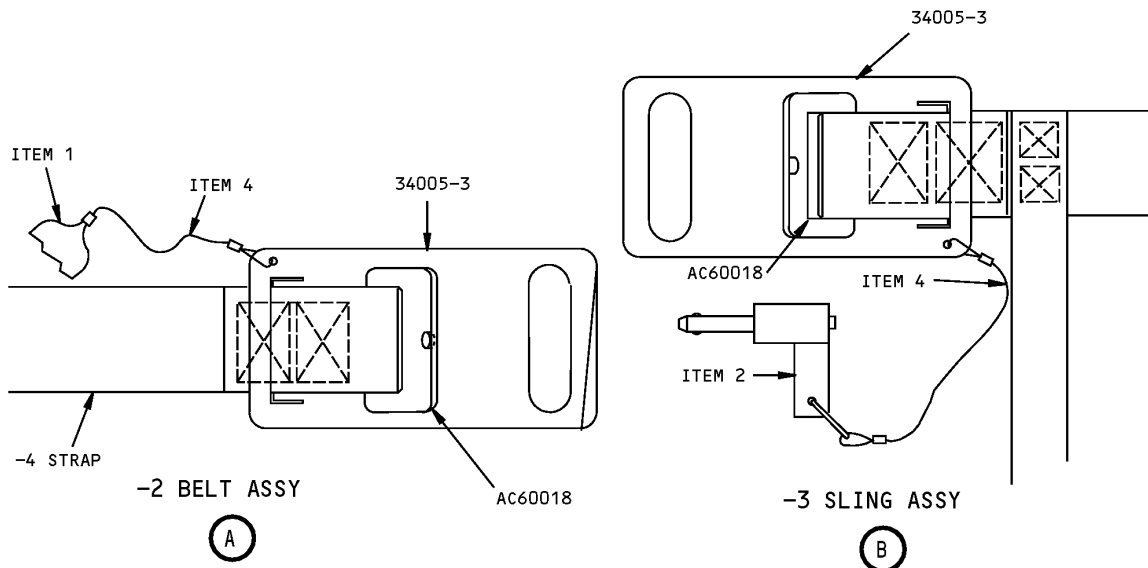
**WEIGHT:** 5 lbs (2.3 kg)

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



**Nose Landing Gear Retract Actuator Sling  
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Nose Landing Gear Retract Actuator Sling  
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	NAS1756-24	WARNING STREAMER	
2	NAS1334C5C10D	QUICK RELEASE PIN	
3	F70308-2	PROOF LOAD TAG	
4	CL-22-KA-08.0LR	CABLE ASSEMBLY	V99862



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32034-1**

**NAME:** WRENCH ADAPTER - STEERING NUT, NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** YES

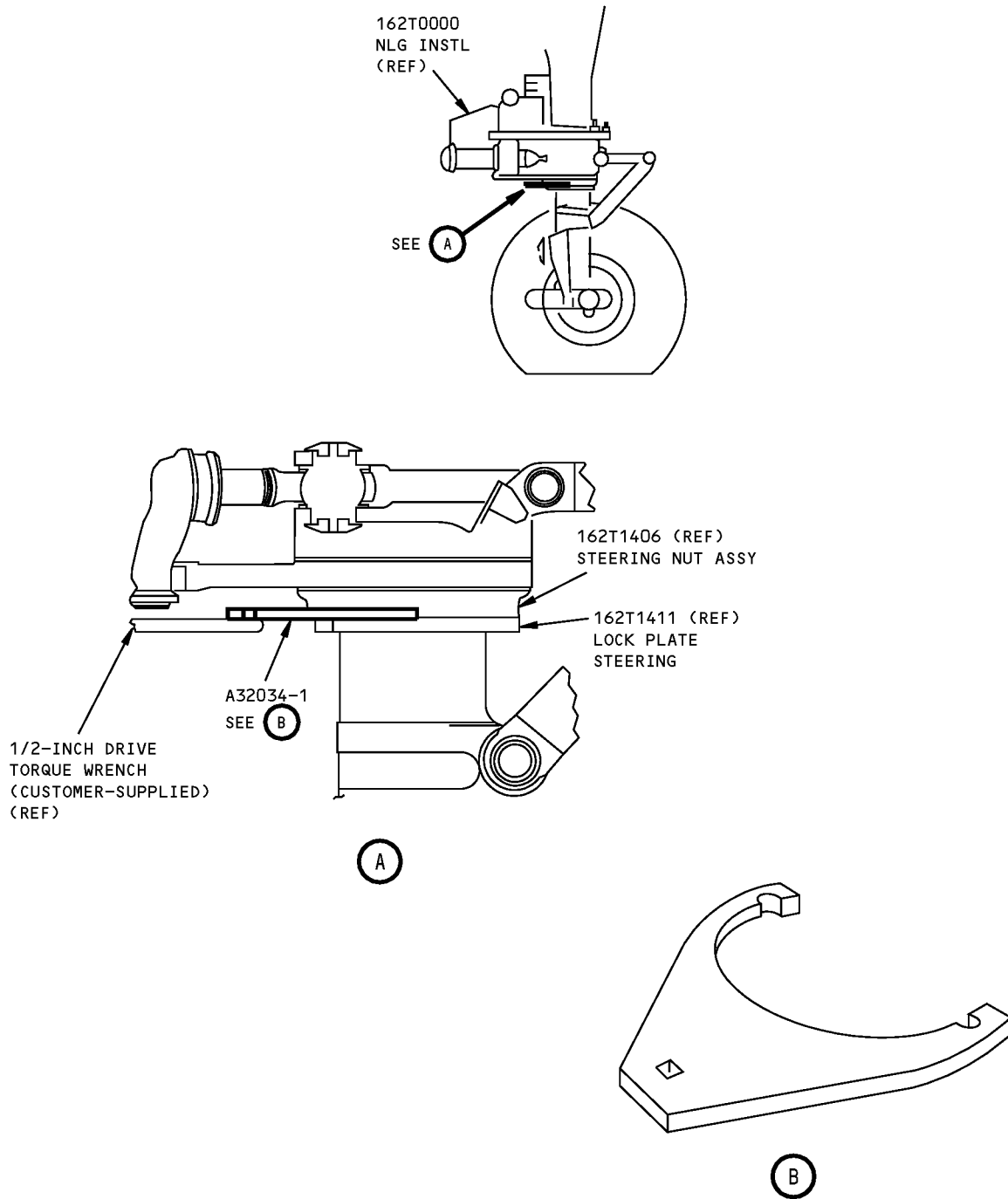
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32034-1 wrench adapter is used on all 767 airplanes. A32034 is a spanner wrench that locks onto the nose landing gear steering nut. It is used with a customer supplied-furnished 1/2-inch square drive torque wrench to tighten the nut to a specified torque. Refer to AMM 32-51-03, AMM 32-51-05, CMM 32-21-21, CMM 32-21-43 and CMM 32-21-47 for complete usage instructions. A32034-1 consists of only the A32034-1 wrench adapter.

**WEIGHT:** 3 lbs (1.4 kg)

**DIMENSIONS:** 1 x 8 x 11 inches (25 x 203 x 279 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Nose Landing Gear Steering Nut Wrench Adapter  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32035-1**

**NAME:** WRENCH - STEERING ACTUATOR, NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** YES

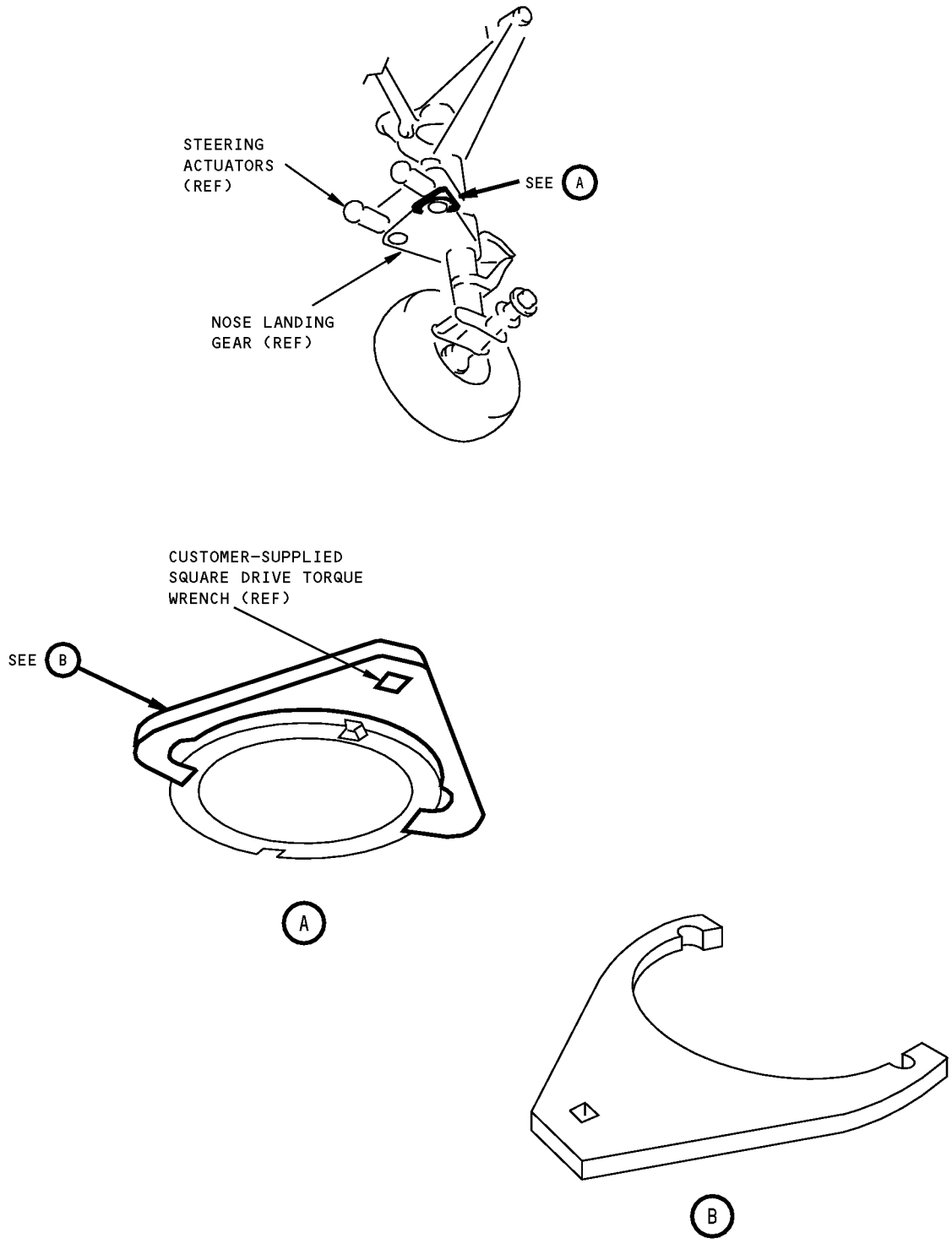
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32035-1 wrench is used on all 767 airplanes. A32035 is a spanner wrench that locks onto the nose landing gear steering actuator retaining nut. A customer-furnished 1/2-inch square drive torque wrench is used to adjust the retaining nut torque. Refer to AMM 32-51-03, AMM 32-51-05 and CMM 32-71-21 for complete usage instructions. A32035-1 consists of only the A32035-1 wrench.

**WEIGHT:** 1 lb (0.5 kg)

**DIMENSIONS:** 1 x 6 x 7 inches (25 x 152 x 178 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Nose Landing Gear Steering Actuator Wrench**  
**Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32097-1**

**NAME:** PROTECTOR EQUIPMENT - EXTERNALLY THREADED AXLE, NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

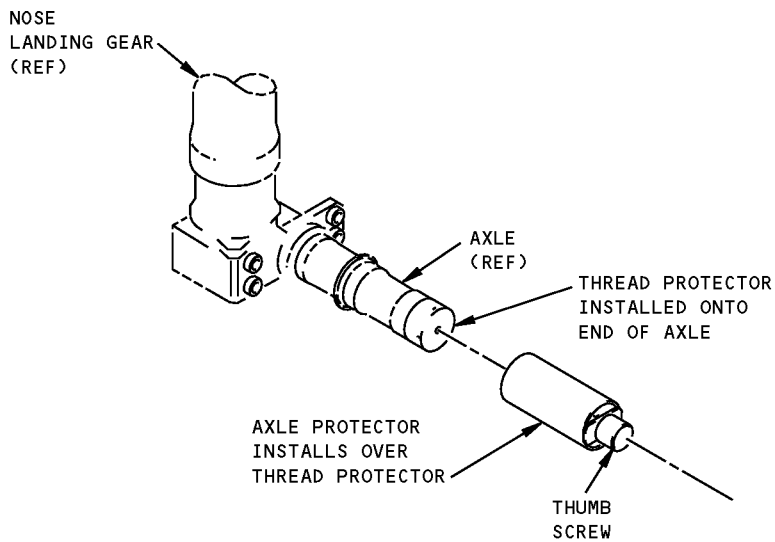
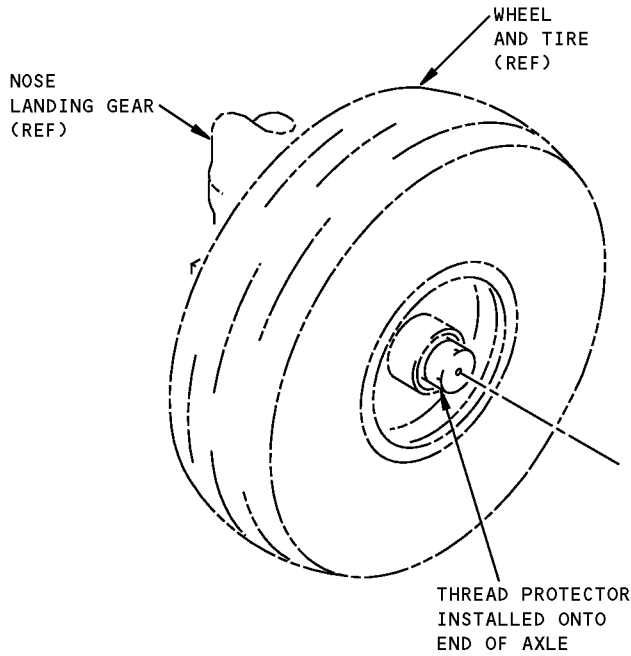
**USAGE & DESCRIPTION:** The A32097-1 protector equipment is used on 767 airplanes that include external threads on the NLG axle. These airplanes are manufactured from line number 360 and on (PRR B11970 "Axle/Inner Cylinder Assembly Replacement - Nose Landing Gear). A32097 is used to protect the NLG axle and its external threads during wheel removal or installation procedure. Refer to AMM 32-45-02 for complete usage instructions. A32097-1 consists of:

A32097-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	THREAD PROTECTOR ASSEMBLY	A32097-2
1	AXLE PROTECTOR ASSEMBLY	A32097-3
1	STORAGE BOX	

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

**DIMENSIONS:** 5 x 5 x 14 inches (127 x 127 x 356 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Nose Landing Gear, Externally Threaded, Axle Protector Equipment  
Figure 1**





767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32058-1**

**NAME:** HOLDING FIXTURE - ACTUATOR LOCK, NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

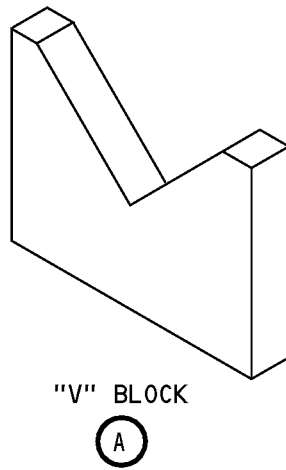
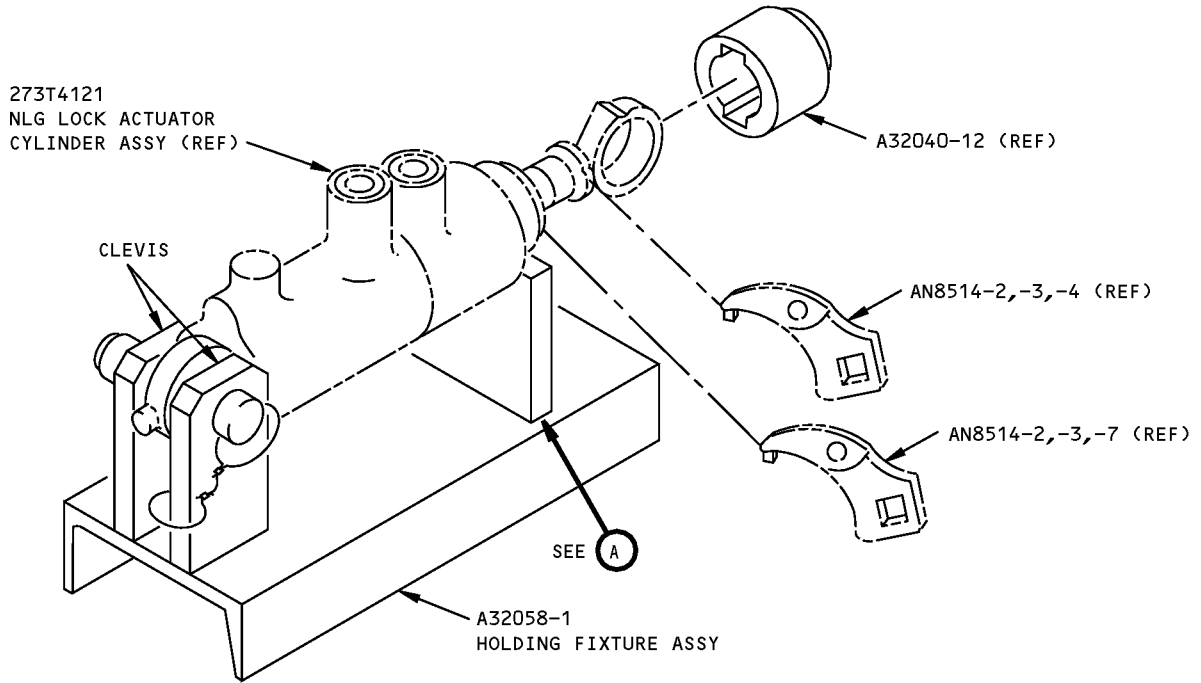
**USAGE & DESCRIPTION:** The A32058-1 holding fixture is used during component maintenance on all 767 airplanes. A32058 is used to secure the 273T4121 NLG actuator lock. Refer to CMM 32-34-31 for complete usage instructions. A32058-1 consists of:

<b>A32058-1</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	BASE ASSEMBLY	A32058-2
1	PIN	A32058-3

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

**DIMENSIONS:** 4 x 6 x 10 inches (102 x 152 x 254 mm)

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Nose Landing Gear Actuator Lock Holding Fixture**  
**Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32057-1, -40**

**NAME:** BUILDUP STAND - NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32057-1 or -40 are used during component maintenance on all 767 airplanes. A32057-1 is used only on 767 airplanes. A32057-40 is used on both 757 and 767 airplanes. A32057 is used to support the NLG in the vertical position for installation and removal of built-up components. A32057 also secures the inner cylinder of the shock strut, allowing the outer cylinder to be removed during overhaul. Refer to CMM 32-21-21, CMM 32-21-43 and CMM 32-21-47 for complete usage instructions. A32037-1 and -40 consists of:

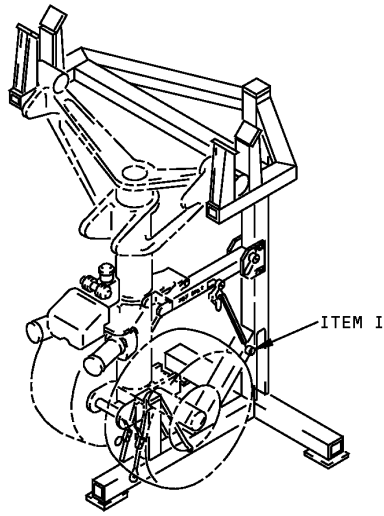
A32057-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	STAND ASSEMBLY	A32057-2
1	ARM ASSEMBLY	A32057-3

A32057-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	STAND ASSEMBLY	A32057-2
1	ARM ASSEMBLY	A32057-3
1	ARM ASSEMBLY	A32057-4
2	PIN	A32057-5
1	STORAGE BRACKET ASSEMBLY	A32057-6
2	BOLT	AN4-5A
1	STORAGE BOX	

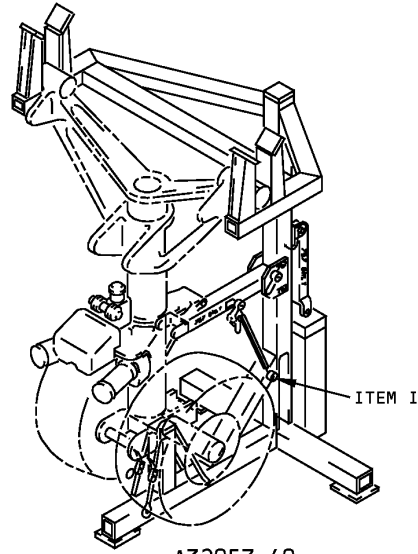
**WEIGHT:** 1,110 lbs (503 kg)

**DIMENSIONS:** 50 x 58 x 116 inches (1270 x 1473 x 2946 mm)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



A32057-1  
NLG BUILDUP  
STAND - 767 ONLY

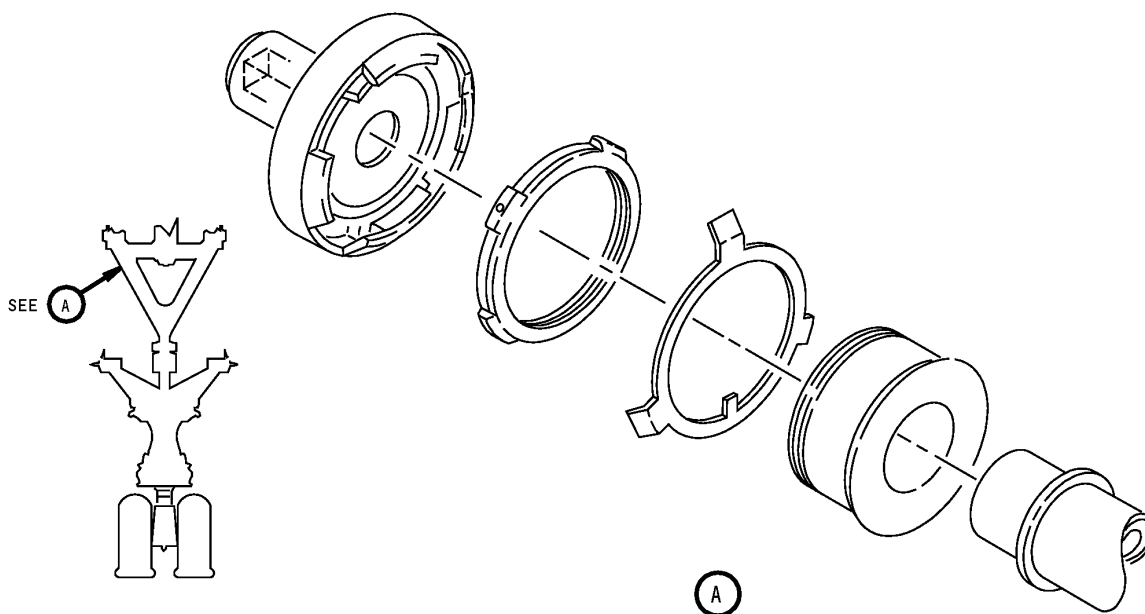


A32057-40  
BUILD-UP STAND FOR USE  
WITH 757/767 MIXED FLEETS

Nose Landing Gear Buildup Stand  
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-32-SS	SHOULDER SCREW	V99862

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: ST2580-381****NAME:** WRENCH - SPANNER, FACE TYPE**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** NO**USAGE & DESCRIPTION:** The ST2580-381 wrench is used on all 767 airplanes. ST2580-381 is used with a customer-furnished 3/4-inch square drive torque wrench to tighten the 141T9947-1 NLG drag brace bearing retainer cap. Refer to AMM 32-21-02 for complete usage instructions. ST2580-381 consists of only a ST2580-381 wrench assembly.**DIMENSIONS:** 5 inch dia x 5 inches

**Face Type Spanner Wrench  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32029-26, -48, -50**

**NAME:** REPLACEMENT EQUIPMENT - LOWER SEAL, NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32029-48 or -50 replacement equipment is used on all 767 airplanes. Both A32029-48 and -50 include A32029-26. The A32029-26 cam retainer is used during component maintenance as a unique tool in CMM 32-21-41, Nose Landing Gear Component Assembly, MIL-H-5606 Filled Strut. A32029 is used to remove and install the lower bearing and seal adapter from the nose gear shock strut when replacing seals. The major tool components are: the collar assembly which locates around and secures the inner cylinder in a fixed position; the seal protector assembly which mounts onto the outer cylinder and fastens into the torque tube; the ram assembly and slide hammer assembly which are used to either push or pull the dynamic seal and/or the seal assembly into position for installation. Refer to AMM 32-21-25, AMM 32-21-25, CMM 32-21-43, CMM 32-21-47 and the current A32029 drawing for complete usage instructions. A32029-48 can be reworked to A32029-50 by adding an A32029-51 positioner and following instructions found in the current A32029 drawing. A32029-48 and -50 consists of:

<b>A32029-48</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	COLLAR ASSEMBLY	A32029-49
1	SEAL PROTECTOR ASSEMBLY	A32029-3
1	RAM ASSEMBLY	A32029-37
2	SLIDE HAMMER ASSEMBLY	A32029-5
1	CAM RETAINER	A32029-26
4	ROD	A32029-27
4	KNURLED SCREW	A32029-28
1	STRAP ASSEMBLY	A32029-29
2	HAND KNOB	CL-10-HK-2A
1	CLAMP	TR40-E-150-700A
1	STORAGE BOX	

<b>A32029-50</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	COLLAR ASSEMBLY	A32029-49
1	SEAL PROTECTOR ASSEMBLY	A32029-3



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

A32029-50		
QUANTITY	NOMENCLATURE	PART NUMBER
1	RAM ASSEMBLY	A32029-37
2	SLIDE HAMMER ASSEMBLY	A32029-5
1	CAM RETAINER	A32029-26
4	ROD	A32029-27
4	KNURLED SCREW	A32029-28
1	STRAP ASSEMBLY	A32029-29
1	POSITIONER	A32029-51
2	HAND KNOB	CL-10-HK-2A
1	CLAMP	TR40-E-150-700A
1	STORAGE BOX	

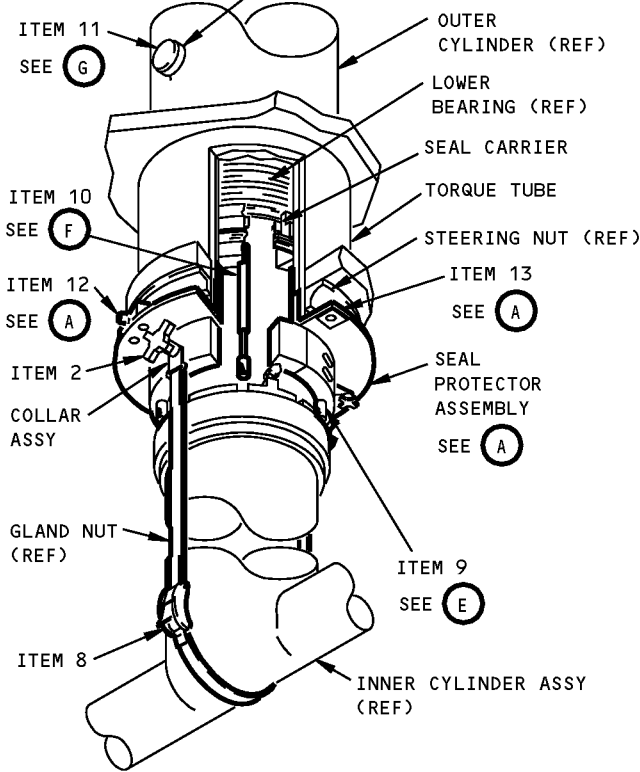
**WEIGHT:** 29 lbs (12 kg)

**DIMENSIONS:** 8 x 20 x 27 inches (203 x 508 x 686 mm)

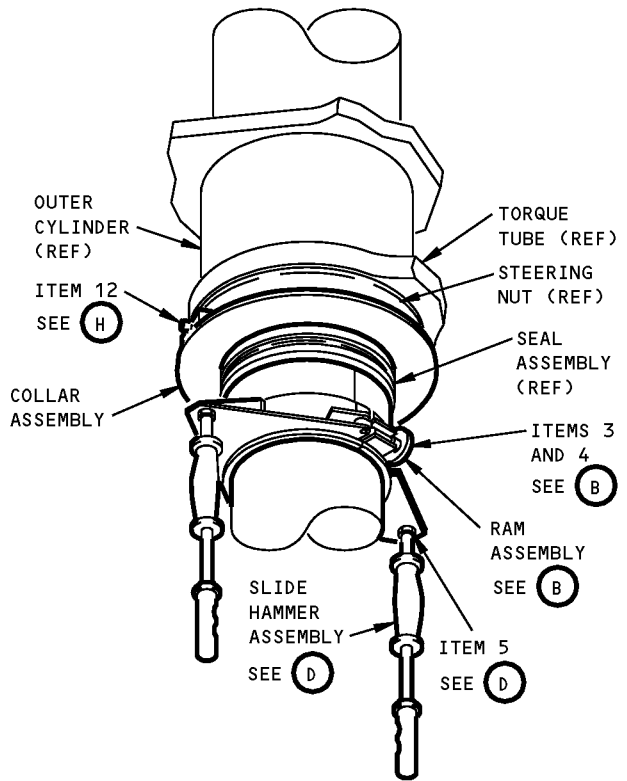
**NOTE:** A32029-48 supersedes A32029-1.  
A32029-50 replaces A32029-48.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**NOTE:** THIS PART ALSO USED DURING NLG OVERHAUL PER CMM 32-21-43.



**A32029 REPLACEMENT EQUIPMENT**

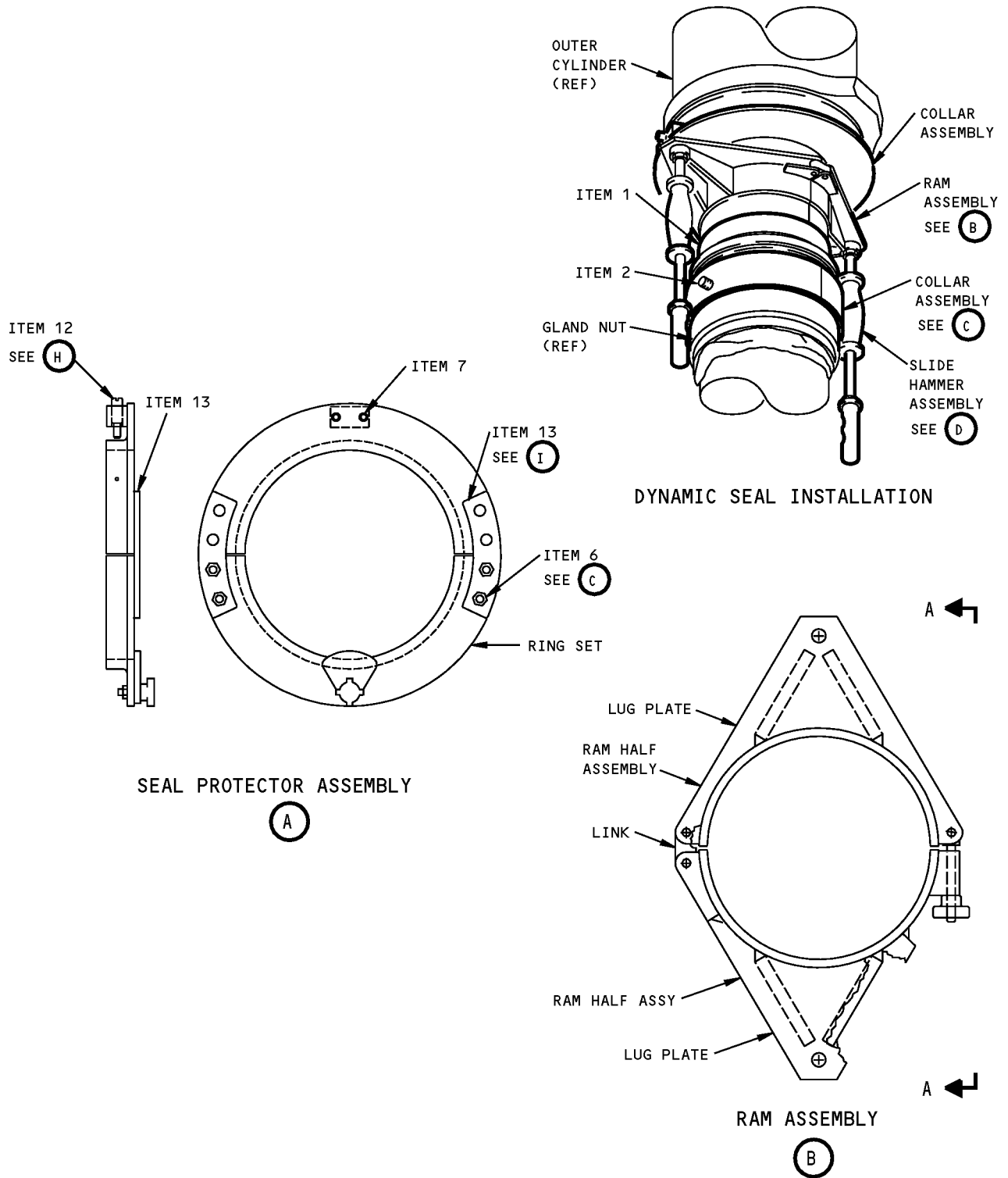


**SEAL ASSEMBLY INSTALLATION**

**Nose Landing Gear Lower Seal Replacement Equipment  
Figure 1 (Sheet 1 of 4)**

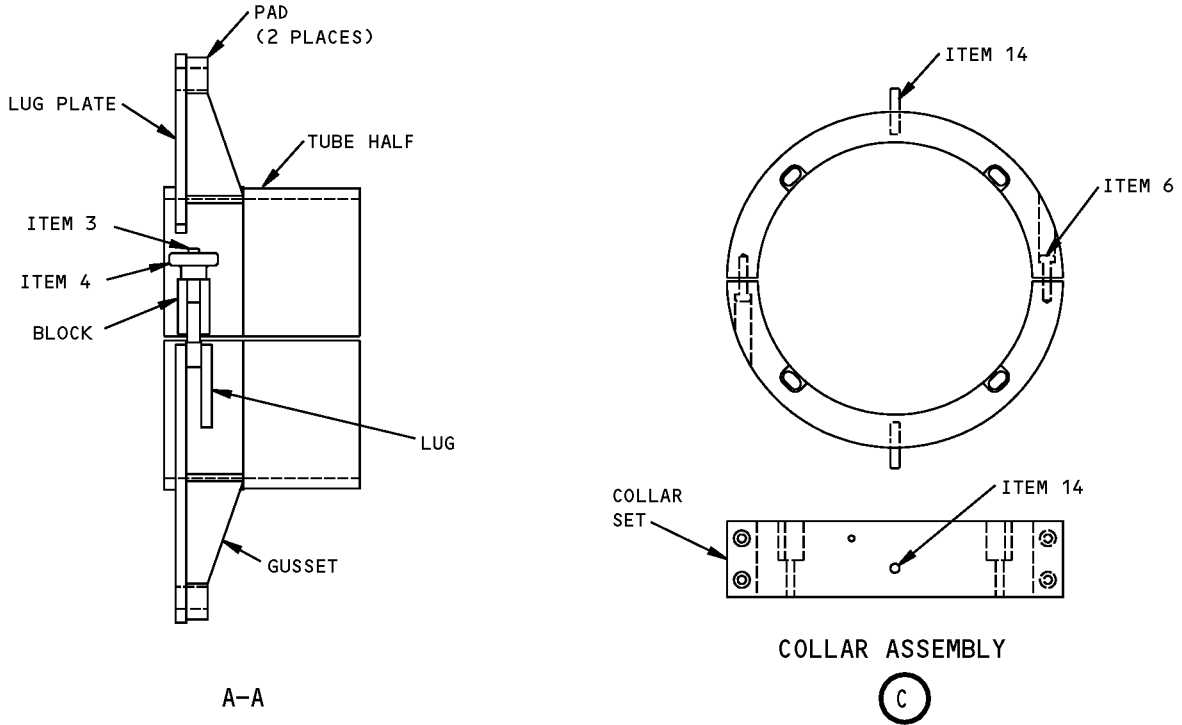


**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



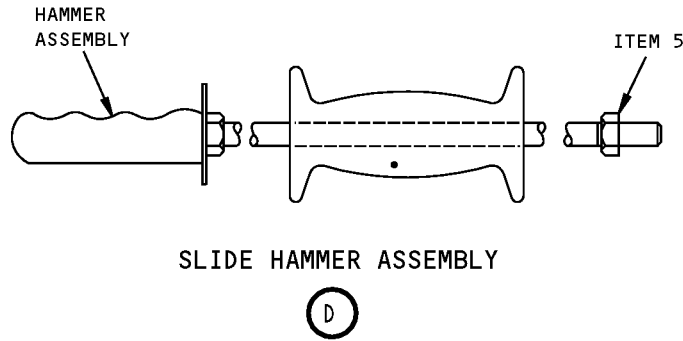
**Nose Landing Gear Lower Seal Replacement Equipment  
Figure 1 (Sheet 2 of 4)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



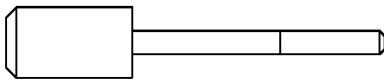
A-A

C

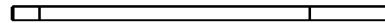


SLIDE HAMMER ASSEMBLY

D



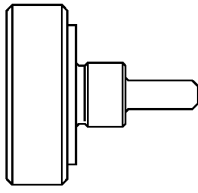
ITEM 9  
E



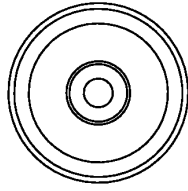
ITEM 10  
F

**Nose Landing Gear Lower Seal Replacement Equipment  
Figure 1 (Sheet 3 of 4)**

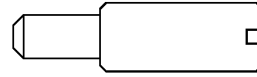
**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



ITEM 11



NOTE: THIS PART USED  
 PER CMM 32-21-43.



ITEM 12



ITEM 13



**Nose Landing Gear Lower Seal Replacement Equipment**  
**Figure 1 (Sheet 4 of 4)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	TR40-E-150-700-A	CLAMP	V14242
2	CL-10-HK-2A	KNOB	V99862
3	21101	SWING BOLT	V96027
4	17501	HAND KNOB	V96027
5	MS21044C8	LOCKNUT	
6	MS16998-29	SOCKET HEAD SCREW	
7	MS16998-27	SOCKET HEAD SCREW	
8	A32029-29	STRAP ASSEMBLY	V01267
9	A32029-28	KNURLED SCREW	
10	A32029-27	ROD	
11	A32029-26	CAM RETAINER	
12	A32029-15	LOCKING SCREW	
13	A32029-12	SPLICE PLATE	
14	A32029-9	STUD	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32036-43, -66**

**NAME:** HOIST EQUIPMENT - NOSE LANDING GEAR (NLG) INSTALLATION/  
REMOVAL

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

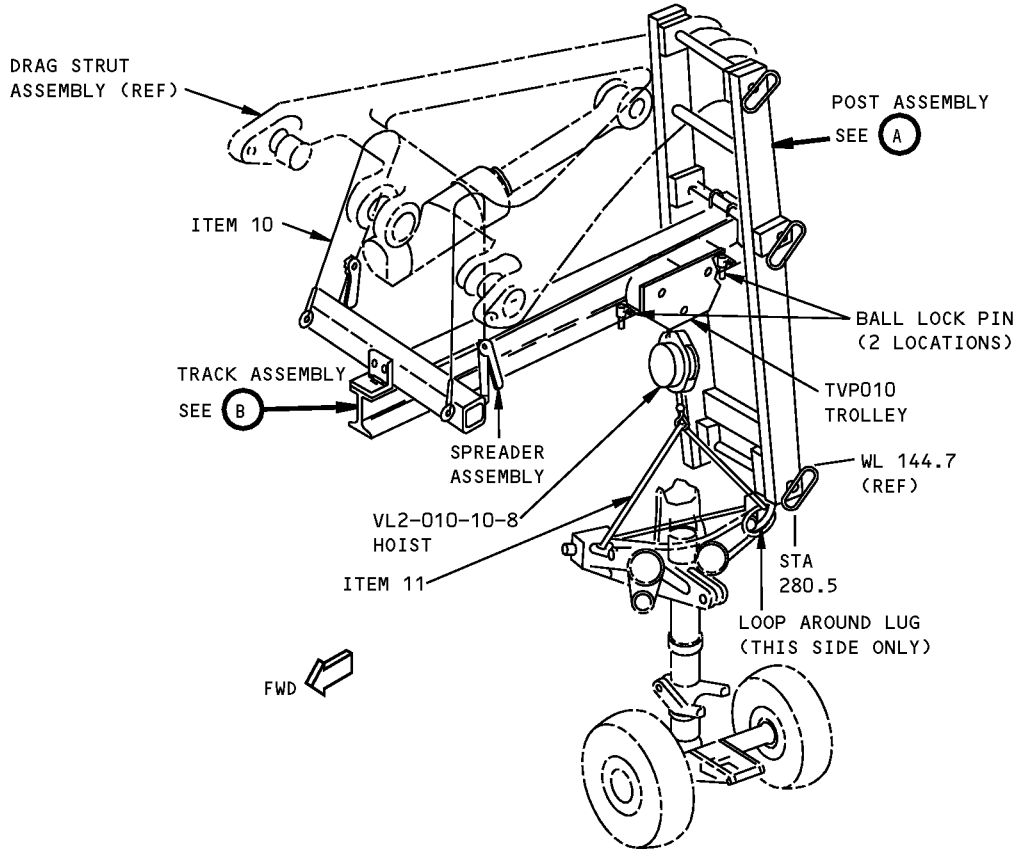
**USAGE & DESCRIPTION:** The A32036-66 hoist equipment is used on all 767 airplanes. The A32036-43 sling assembly is a component of the A32036-66 hoist equipment. A32036-43 is listed as an end item and may be purchased separately. The A32036-43 can be used for nose landing gear handling. The A32036-66 hoist equipment is used in conjunction with the A32011-1 NLG trunnion pin puller and the A32038 NLG transportation dolly to remove and install the nose landing gear. Refer to AMM 32-21-01, CMM 32-21-21, CMM 32-21-43, CMM 32-21-47 and the current A32036 drawing for complete usage instructions. The A32036-66 consists of:

<b>A32036-66</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	SPREADER ASSEMBLY	A32036-34
1	SLING ASSEMBLY	A32036-43
1	POST ASSEMBLY	A32036-55
1	TROLLEY TRACK ASSEMBLY	A32036-58
1	HOIST	VL2-010-10-8
1	TROLLEY	TVP010
2	BALL LOCK PINS	CL-BLPL-1.0-S
1	STORAGE BOX	

**WEIGHT:** 138 lbs ((63 kg)

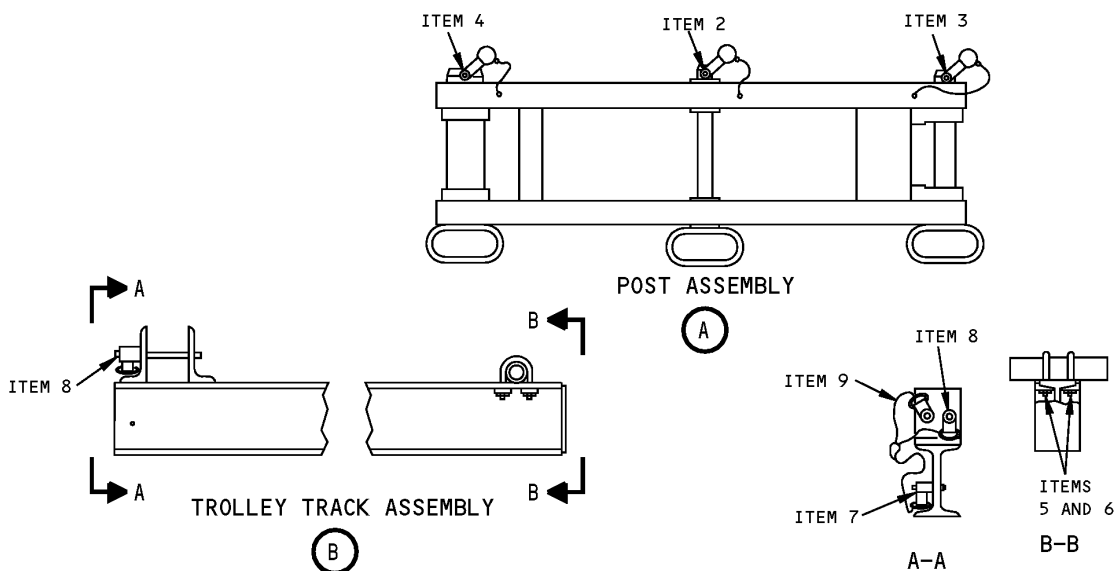
**DIMENSIONS:** 16 x 20 x 54 inches (406 x 508 x 1372 mm)

**NOTE:** A32036 supersedes A32009.  
A32036-66 supersedes A32036-57.



**Nose Landing Gear Installation/Removal Hoist Equipment**  
**Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Nose Landing Gear Installation/Removal Hoist Equipment  
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	F70308-15	PROOF LOAD TAG	
2	NAS1333C5C12	QUICK RELEASE PIN	
3	NAS1333C5C17	QUICK RELEASE PIN	
4	NAS1333C5C30	QUICK RELEASE PIN	
5	MS21044N6	SELF LOCKING NUT	
6	NAS3106C12-16	U-BOLT	
7	NAS1336C5C03	QUICK RELEASE PIN	
8	NAS1336C5C38	QUICK RELEASE PIN	
9	CL-23-KA-12LR	CABLE ASSEMBLY	V99862
10	A32036-53	BELT ASSEMBLY	
11	A32036-43	SLING ASSEMBLY	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32038-1, -23**

**NAME:** TRANSPORTATION DOLLY - NOSE LANDING GEAR (NLG), 757 AND 767

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32038-1 transportation dolly is used for all 767 airplanes. The A32038-23 transportation dolly includes the A32038-1 transportation dolly and includes adapting hardware for use on both 757 and 767 airplanes. A32038 is a welded structural frame and base assembly that is used to transport the nose landing gear during removal or installation procedures. A32038 is used for local maintenance transportation but is not to be used for shipping. Refer to AMM 32-21-01 for complete usage instructions. A32038-1 and -23 consists of:

A32038-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	DOLLY ASSEMBLY	A32038-31
1	LINK ASSEMBLY	A32038-32
1	STEP PIN ASSEMBLY	A32038-17
VARIOUS	ATTACHING HARDWARE	

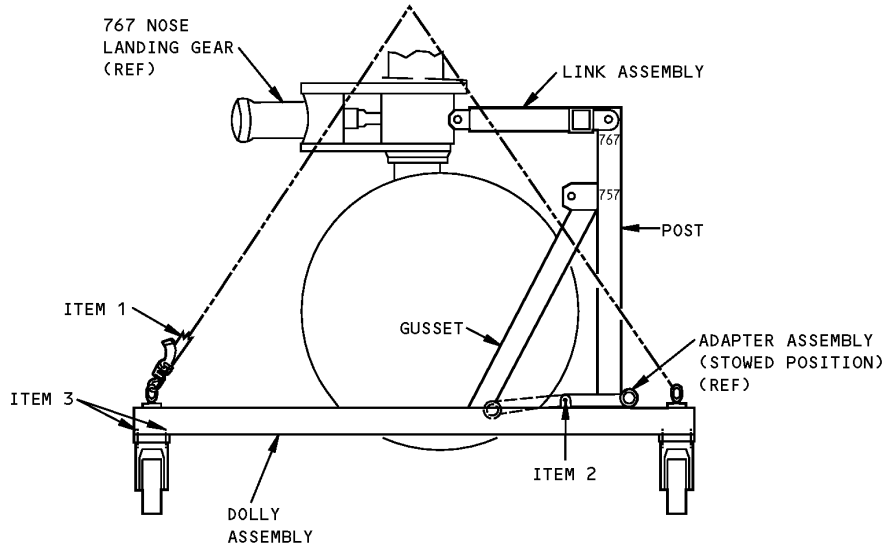
A32038-23		
QUANTITY	NOMENCLATURE	PART NUMBER
1	TRANSPORTATION DOLLY	A32038-1
1	CRADLE	A32038-10
1	CLEVIS HALF	A32038-11
1	ADAPTER ASSEMBLY	A32038-20
VARIOUS	ATTACHING HARDWARE	

**WEIGHT:** 750 lbs (340 kg)

**DIMENSIONS:** 53 x 72 x 78 inches (1346 x 1829 x 1981 mm)

**NOTE:** A32038 replaces the cancelled A32009 for future procurement.

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**757 and 767 Nose Landing Gear Transportation Dolly**  
**Figure 1**

REPAIRABLE/REPLACEABLE			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	AC6000176C240	BELT ASSEMBLY	V01276
2	MS20392-7C57	PIN	
3	MS20074-06-06	COARSE THREAD BOLT	



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32094-1**

**NAME:** GAUGE - DOWN LOCK LINK ADJUSTMENT, NOSE LANDING GEAR (NLG)

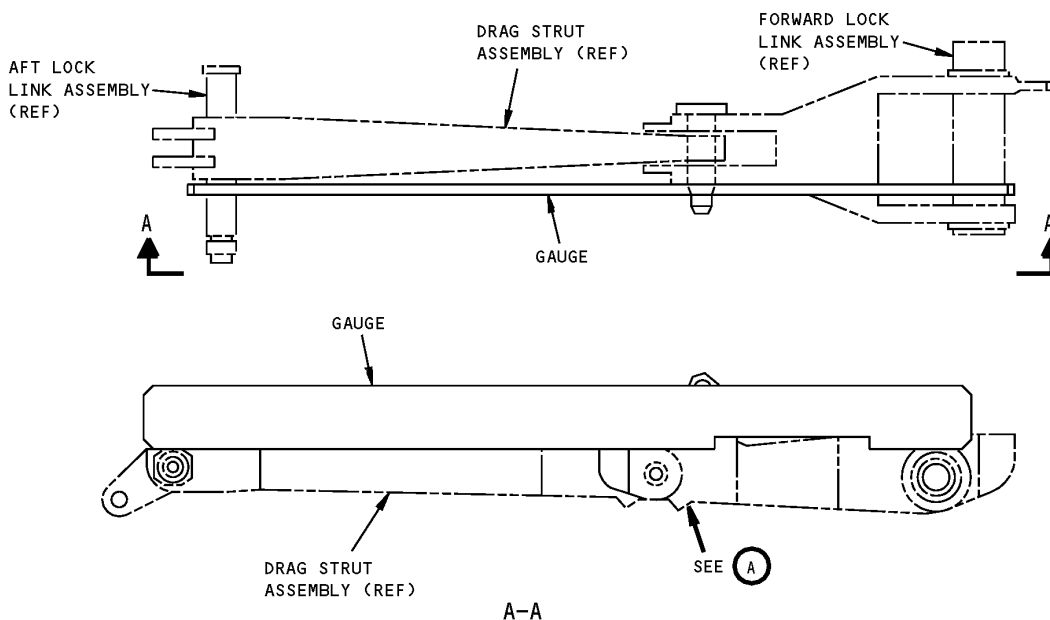
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

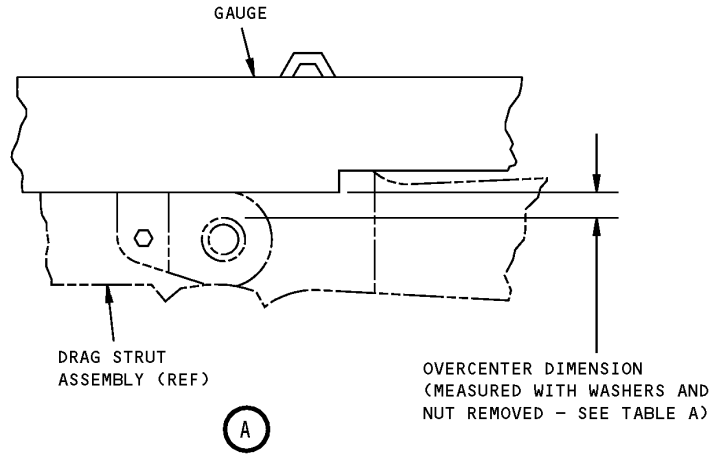
**USAGE & DESCRIPTION:** The A32094-1 gauge is used on all 767 airplanes. A32094 is used to measure and adjust the overcenter dimension of the lock link assembly. Refer to AMM 32-21-06 and CMM 32-21-54 for complete usage instructions. A32094 consists of an A32094-2 gauge contained in a storage box.

**WEIGHT:** 17 lbs (8 kg)

**DIMENSIONS:** 1 x 3 x 39 inches (25 x 76 x 911 mm)



**Nose Landing Gear Down Lock Link Adjustment Gauge  
Figure 1 (Sheet 1 of 2)**



**Nose Landing Gear Down Lock Link Adjustment Gauge  
Figure 1 (Sheet 2 of 2)**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

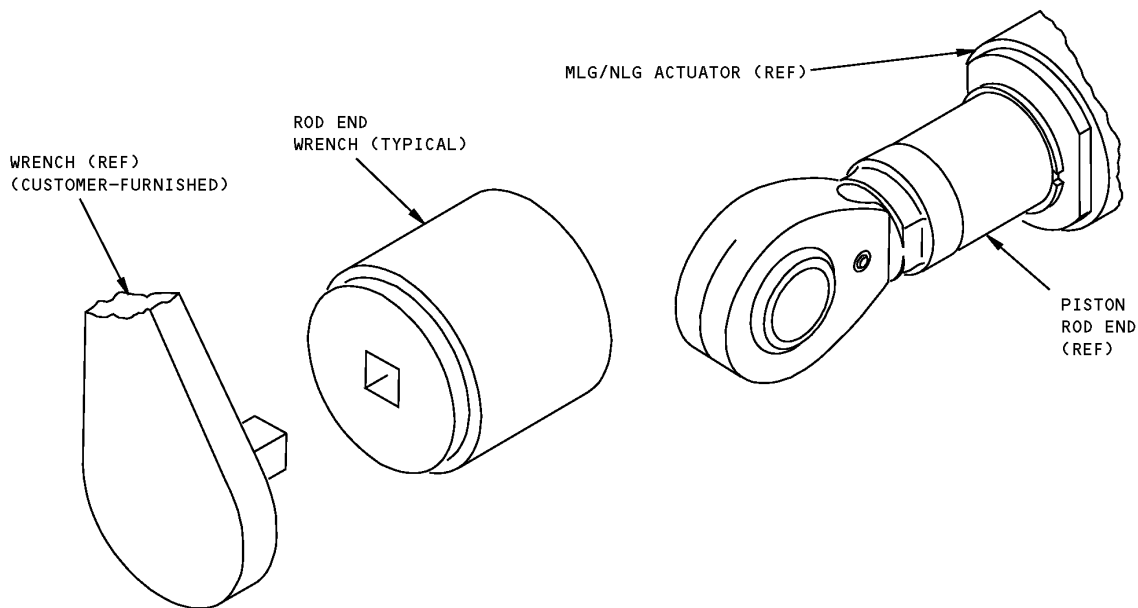
**PART NUMBER:** A32040-4, -7, -10, -12, -15

**NAME:** WRENCH - ROD END

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32040-7,-10 and -12 wrenches are used during component maintenance on all 767 airplanes. The A32040-4 and -15 wrenches are used on 767-200 and -300 airplanes. A32040 consists of individual socket wrench assemblies that are used to torque landing gear actuator piston rod ends during component maintenance. Refer to CMM 32-32-00, CMM 32-32-19, CMM 32-34-00, CMM 32-34-31, CMM 32-51-10 and the current A32040 drawing for complete usage instructions.



**Rod End Wrench  
Figure 1**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32041-1**

**NAME:** TORQUE ADAPTER - CYLINDER, NOSE LANDING GEAR (NLG) RETRACT ACTUATOR

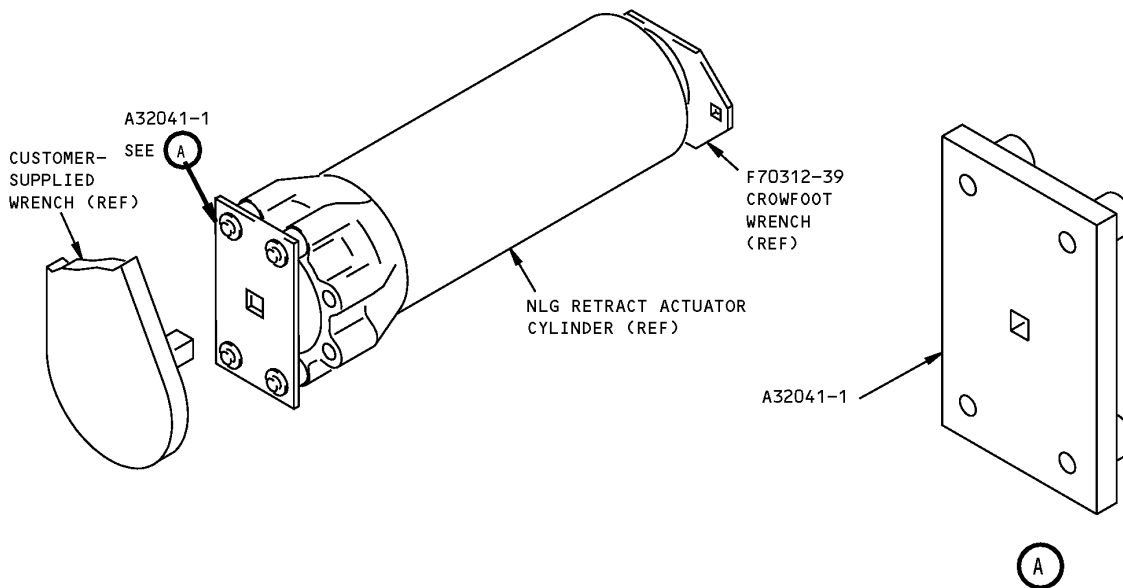
**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32041-1 torque adapter is used during component maintenance on all 767 airplanes. A32041 is used to hold the NLG retract actuator cylinder while torque is applied with a F70312-39 crowfoot wrench. The A32041 is used in conjunction with a 1/2-inch square drive customer-furnished wrench. Refer to CMM 32-34-00 for complete usage instructions. The A32041-1 consists of an A32041-2 plate and an A32041-3 pad.

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

**DIMENSIONS:** 2 x 4 x 7 inches (51 x 102 x 178 mm)



**Nose Landing Gear Retract Actuator Cylinder Torque Adapter  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32047-1, -29**

**NAME:** COMPONENT MAINTENANCE EQUIPMENT - SHOCK STRUT, NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32047-1 component maintenance equipment is used on 767-200 and -200ER airplanes. The A32047-29 component maintenance equipment is used on 767-300 and -300ER airplanes. The A32047-1 component maintenance equipment is used during ground service operations to remove and install the nose landing gear shock strut components. Refer to CMM 32-21-43 and CMM 32-21-47 for complete usage instructions. A32047-1 and -29 consist of:

A32047-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	WRENCH ASSEMBLY - ORIFICE PLATE	A32047-2
1	ORIFICE NUT WRENCH	A32047-3
1	WRENCH ASSEMBLY - RETAINER NUT	A32047-4
1	ADAPTER ASSEMBLY - ORIFICE TUBE	A32047-5
1	ADAPTER ASSEMBLY - RETAINER RING	A32047-6
1	ADAPTER - RETAINER RING	A32047-7
1	GUIDE SHAFT	A32047-15
1	GUIDE BUSHING	A32047-16
1	STORAGE BOX	

A32047-29		
QUANTITY	NOMENCLATURE	PART NUMBER
1	WRENCH ASSEMBLY - ORIFICE PLATE	A32047-30
1	ORIFICE NUT WRENCH	A32047-3
1	WRENCH ASSEMBLY - RETAINER NUT	A32047-31
1	ADAPTER ASSEMBLY - ORIFICE TUBE	A32047-32
1	ADAPTER - RETAINER RING	A32047-39
1	ADAPTER - RETAINER RING	A32047-40
1	GUIDE SHAFT	A32047-15
1	GUIDE BUSHING	A32047-16
1	STORAGE BOX	



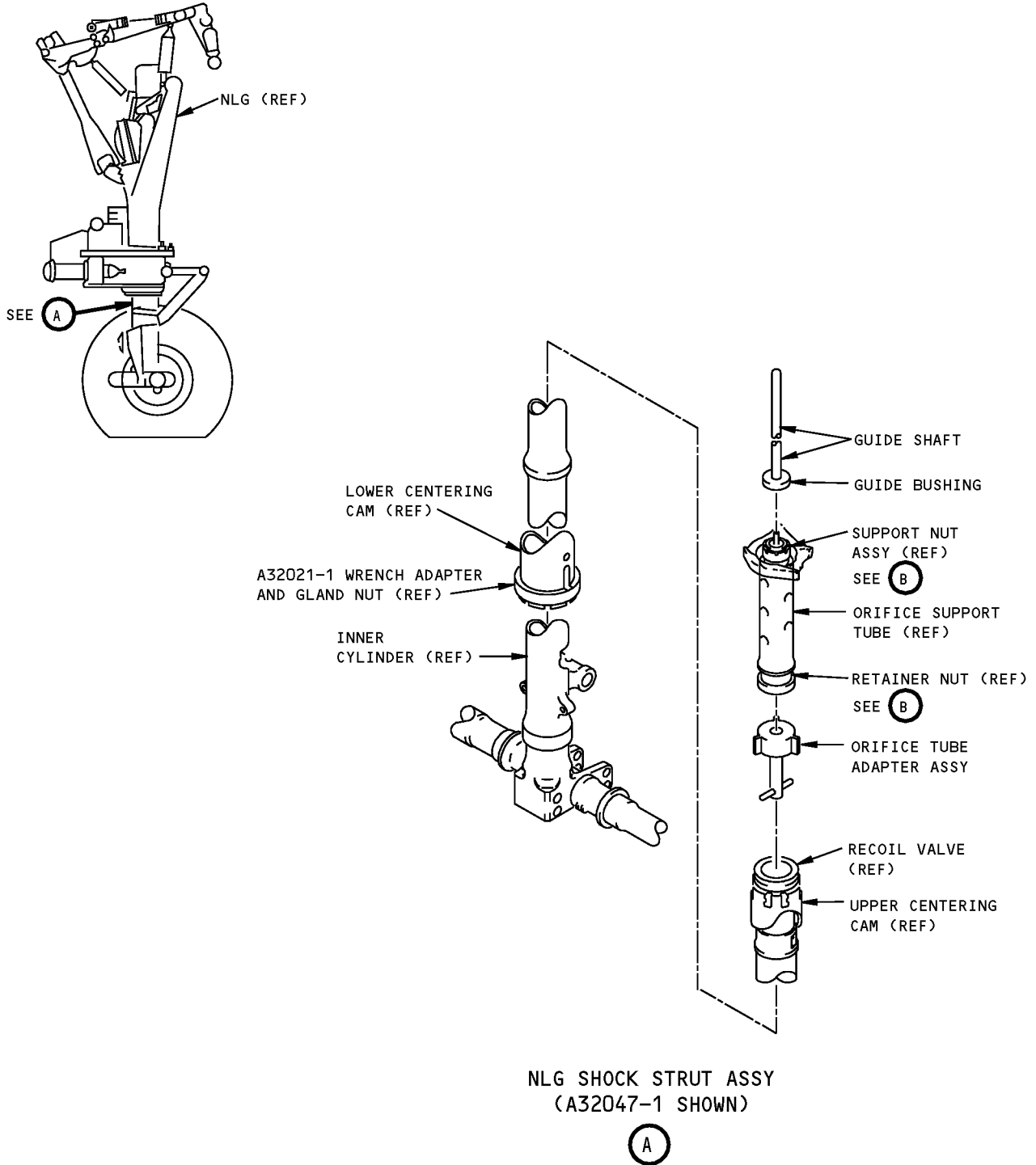
**767**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**WEIGHT:** 68 lbs (38 kg)

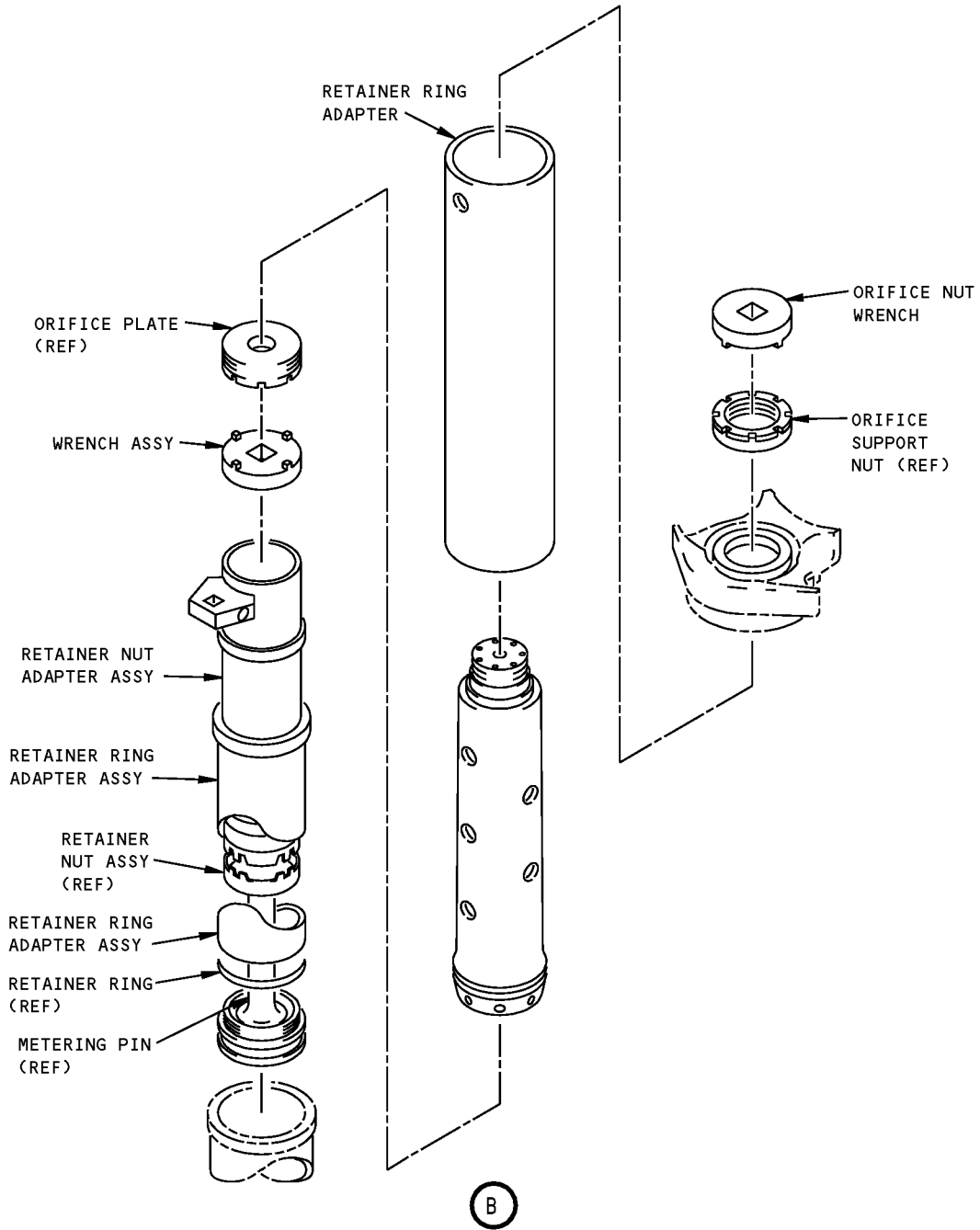
**DIMENSIONS:** 8 x 36 x 36 inches (203 x 914 x 914 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Nose Landing Gear Shock Strut Component Maintenance Equipment  
Figure 1 (Sheet 1 of 6)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

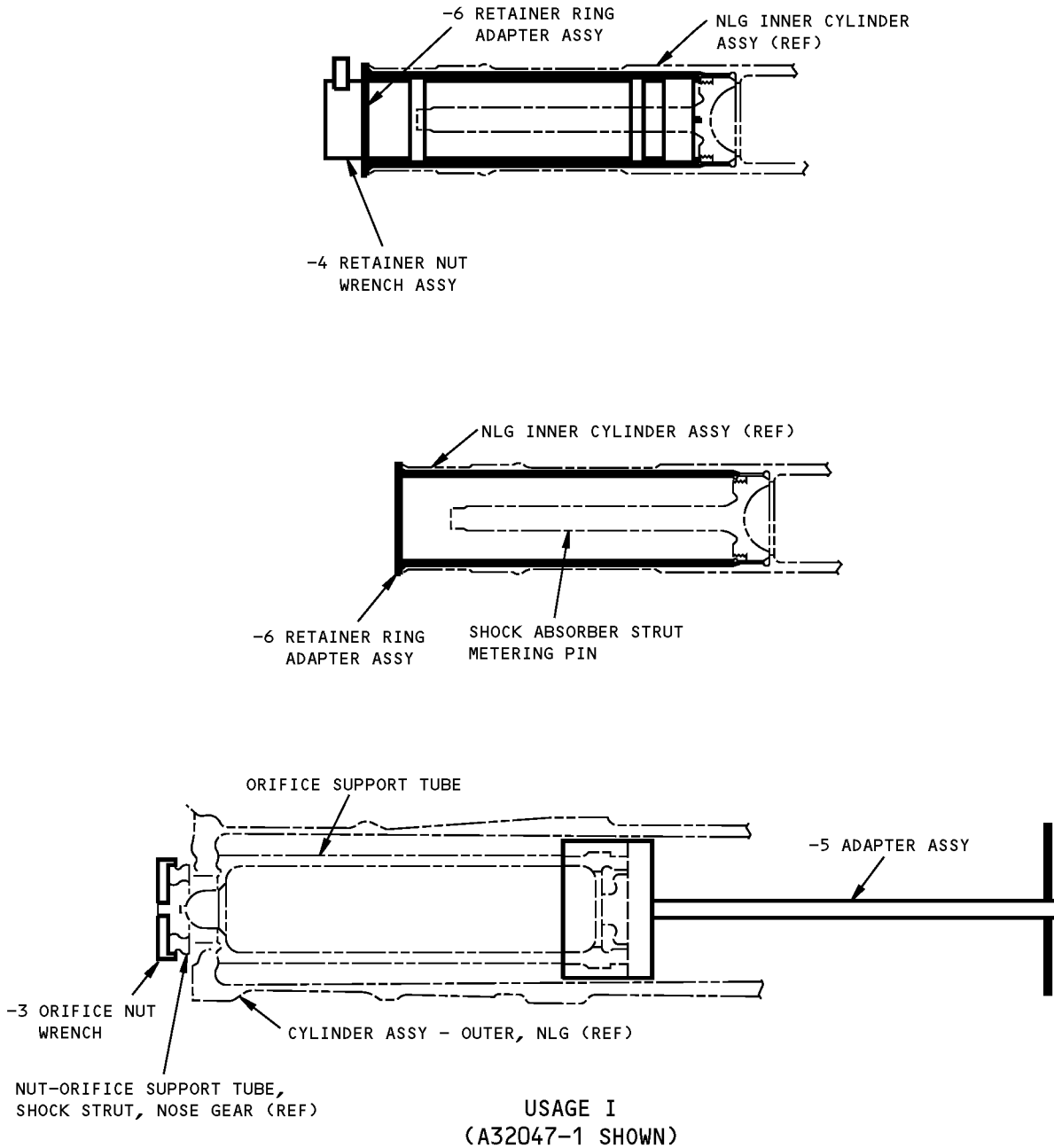


(A32047-1 SHOWN)

**Nose Landing Gear Shock Strut Component Maintenance Equipment  
Figure 1 (Sheet 2 of 6)**

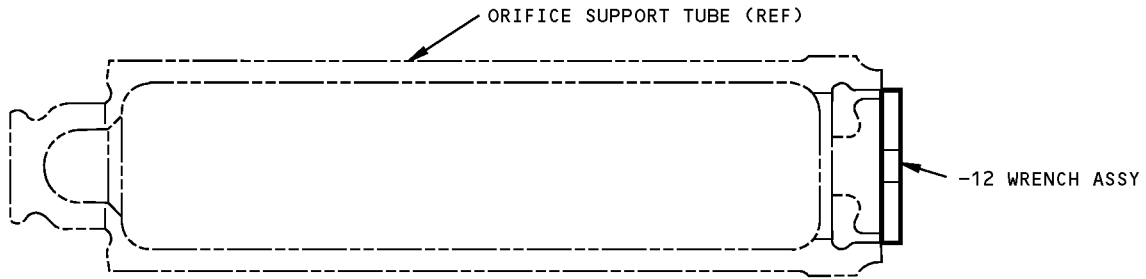
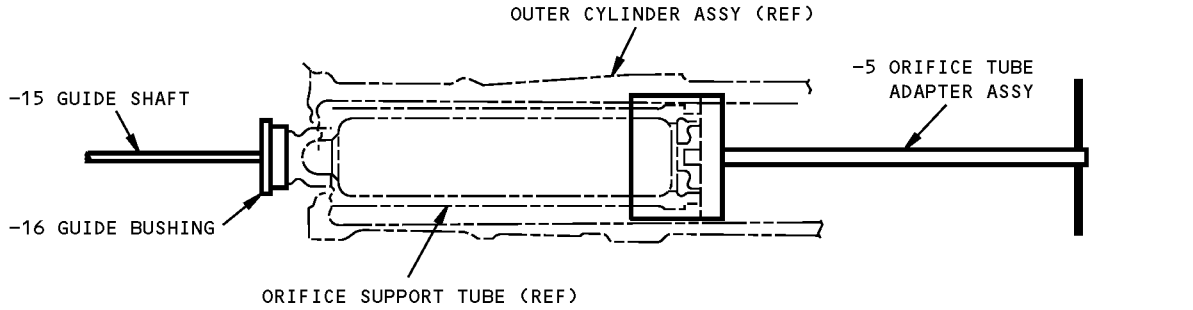


**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Nose Landing Gear Shock Strut Component Maintenance Equipment  
Figure 1 (Sheet 3 of 6)**

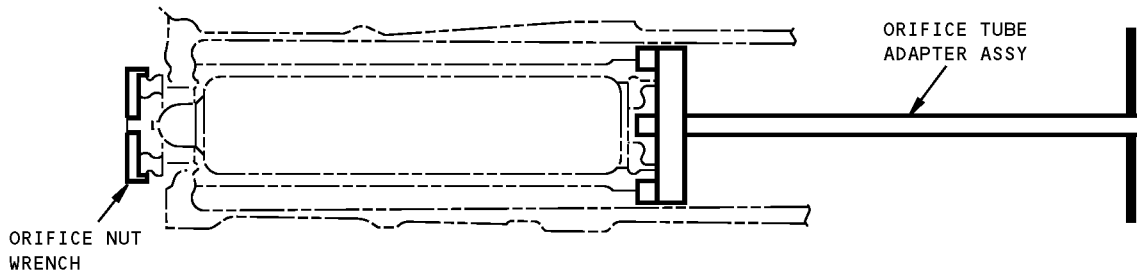
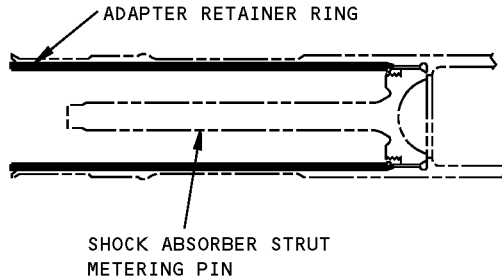
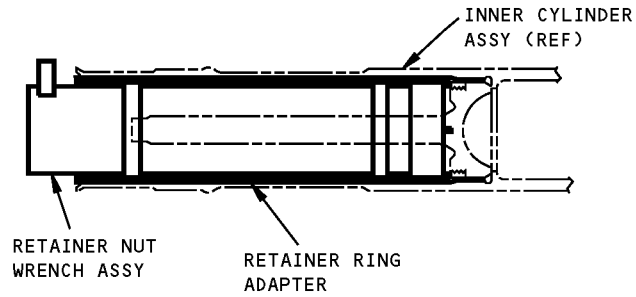
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



USAGE II  
(A32047-1 SHOWN)

**Nose Landing Gear Shock Strut Component Maintenance Equipment  
Figure 1 (Sheet 4 of 6)**

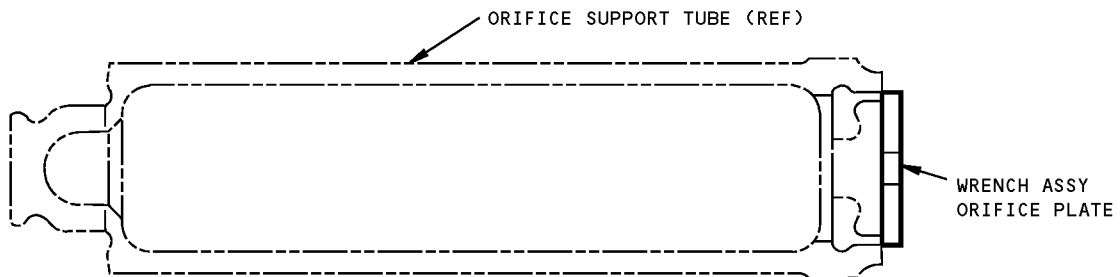
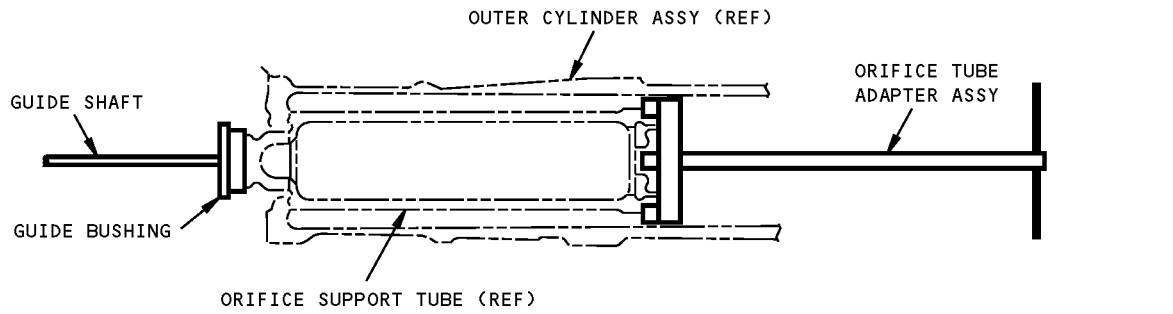
**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



USAGE I  
(A32047-29 SHOWN)

**Nose Landing Gear Shock Strut Component Maintenance Equipment**  
**Figure 1 (Sheet 5 of 6)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**USAGE II**  
**(A32047-29 SHOWN)**

**Nose Landing Gear Shock Strut Component Maintenance Equipment**  
**Figure 1 (Sheet 6 of 6)**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32004-1, -4, -5**

**NAME:** WRENCH ADAPTER - GLAND NUT, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** A32004-1 wrench adapter is used on 767-200 and -300 airplanes. A32004-4 wrench adapter is used on 767-400 airplanes. A32004-5 wrench adapter is used on 767-200,-300, and -400 airplanes. A32004 is used to remove and install the main landing gear gland nut. The A32004 wrench adapter includes a 3/4-inch square drive for use with a customer-furnished torque wrench. Refer to CMM 32-11-33 and CMM 32-11-40 for complete usage instructions. A32004-1, -4 and -5 consists of:

A32004-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	BOSS	A32004-3
1	YOKE	A32004-2

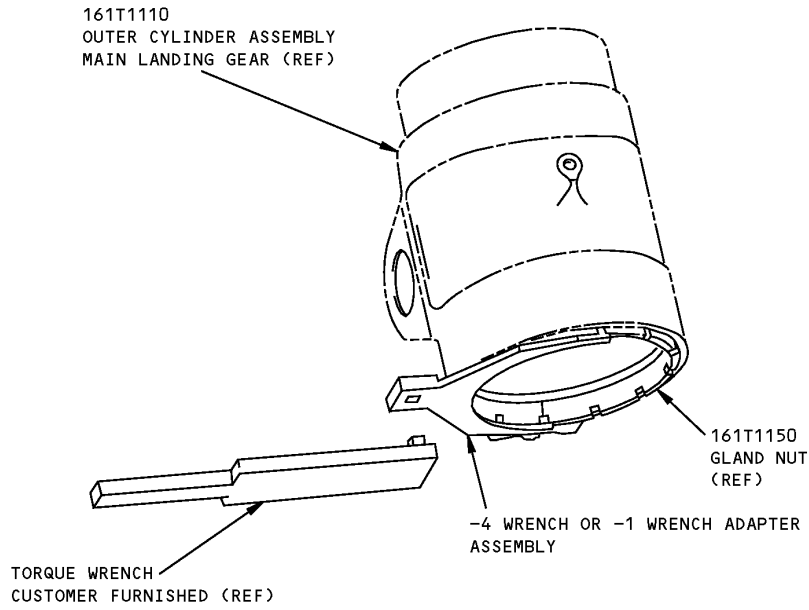
A32004-4		
QUANTITY	NOMENCLATURE	PART NUMBER
1	WRENCH	A32004-4
1	STORAGE BOX	

A32004-5		
QUANTITY	NOMENCLATURE	PART NUMBER
1	WRENCH	A32004-4
1	ADAPTER	A32004-5
1	STORAGE BOX	

**WEIGHT:** A32004-1, -4 - 6 lbs (2.7 kg)  
A32004-5 - 11 lbs (5 kg)

**DIMENSIONS:** A32004-1 - 1 x 10 x 14 inches (25 x 254 x 356 mm)  
A32004-4 - 1 x 13 x 14 inches (25 x 330 x 356 mm)  
A32004-5 - 2 x 13 x 14 inches (51 x 330 x 356 mm)

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Gland Nut Wrench Adapter**  
**Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32027-53, -175, -176, -178**

**NAME:** PUMP - RETRACTION/EXTENSION LANDING GEAR ACTUATOR

**AIRPLANE MAINTENANCE:** YES

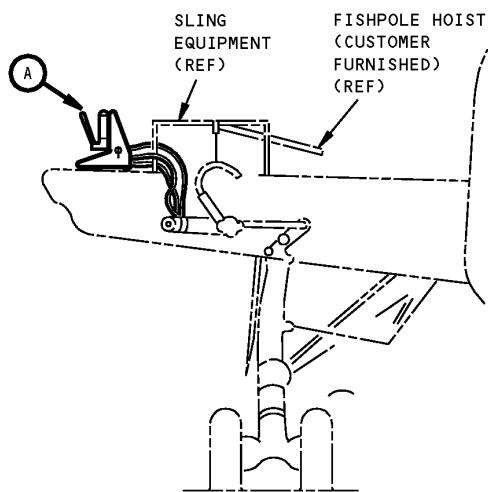
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32027-53 or -175 pump is used on 767-200/-300 airplanes. The A32027-176 or -178 pump is used on all I 767 airplanes. The A32027 retraction/extension pump is used to provide the necessary hydraulic power to remove/install the main landing gear retract actuators or to remove/install the main landing gear (MLG). To remove or install the main landing gear retract actuators, the A32027 is used with the A32006 main landing gear retract actuator sling, the A32010 main landing gear retract actuator pin puller, the A32065 actuator support pin restraining wrench, the F70312 crowfoot wrench and a fishpole hoist. To remove/install the main landing gear, the A32027 is used with A32006 main landing gear retract actuator sling, the A32026 shock strut retention strap, the A32021 main landing gear truck positioner turnbuckle, the A32032 main landing gear removal/installation sling, the A32095 forward trunnion bearing bolt wrench and automotive axle jacks. For complete usage instructions, refer to AMM 32-11-01, AMM 32-32-01 and the current the A32027 drawing. The A32027-53 is preferred for 757 and 767-200,-300 airplanes, as it contains only the equipment (including adapter assemblies A32027-36,-37,-38 and -46) required for those airplanes. The A32027-175 pump will service the 757, 767-200,-300 and 777-200,-200ER,-300 airplanes. The A32027-176 pump will service the 757, 767-200,-300,-400 and the 777-200,-200ER,-300 airplanes. The A32027-178 pump will service the 757 and 767-200,-300,-400 and the 777-200,-200ER,-300,-300ER airplanes. The A32027-175,-176 and -178 pumps include adapter assemblies that are not required for use on the 767-200,-300. The 767-400 uses only the -176 and -178 pumps, with the -178 being preferred. The A32027-53,-175,-176 and -178 all include an A32027-152 central pump assembly. The A32027-152 central pump assembly has as preferred equipment, a P-80 pump with an SPL2230S2 seal kit installed by the manufacturer. Enerpac manufactures the P-80 pump.

**WEIGHT:** 70 lbs (32 kg)

**DIMENSIONS:** 21 x 34 x 43 inches (533 x 864 x 1092 mm)

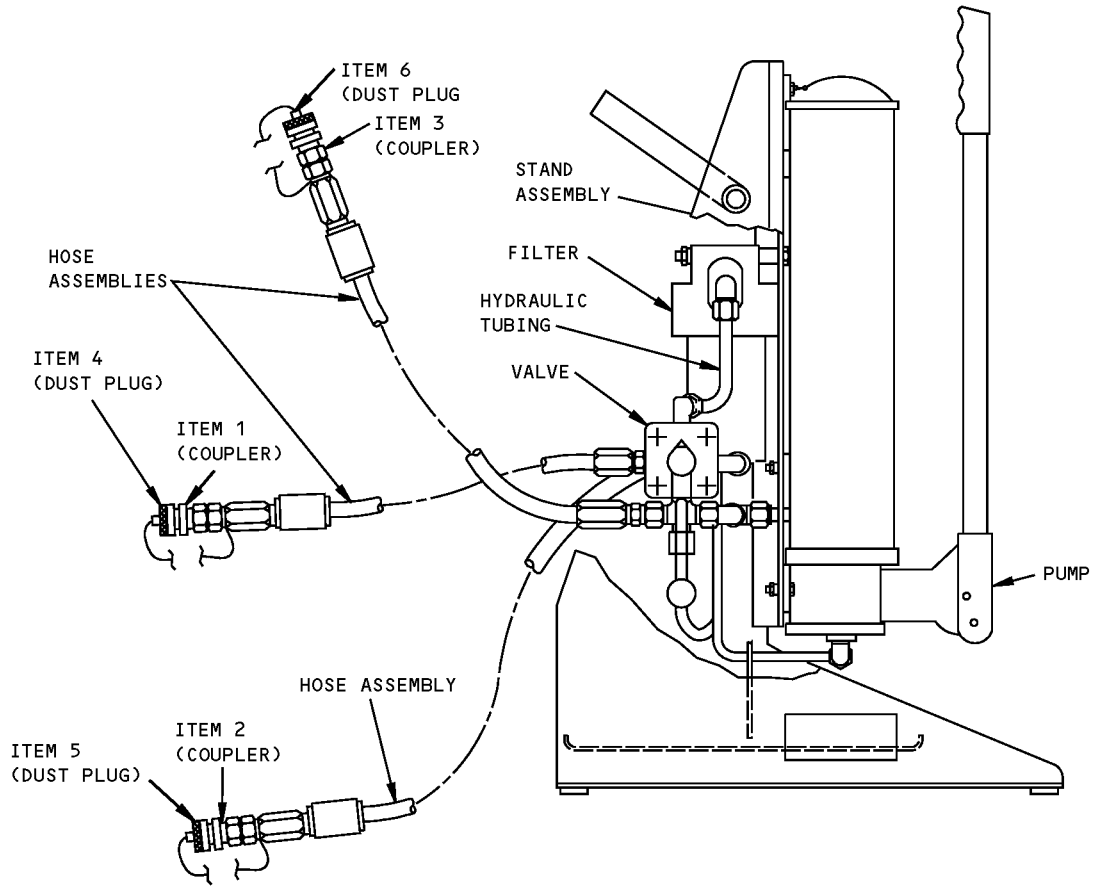
**NOTE:** A32027-175, -176 and -178 supersede A32027-90, -153 and -166 respectively. A32027-53 is preferred for future procurement for 757 and 767-200 and -300. A32027-178 is preferred for 767-400 and replaces A32027-175 and -176 for future procurement.  
A32027-53 supersedes A32027-48.



**Retraction/Extension Landing Gear Actuator Pump  
Figure 1 (Sheet 1 of 7)**



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

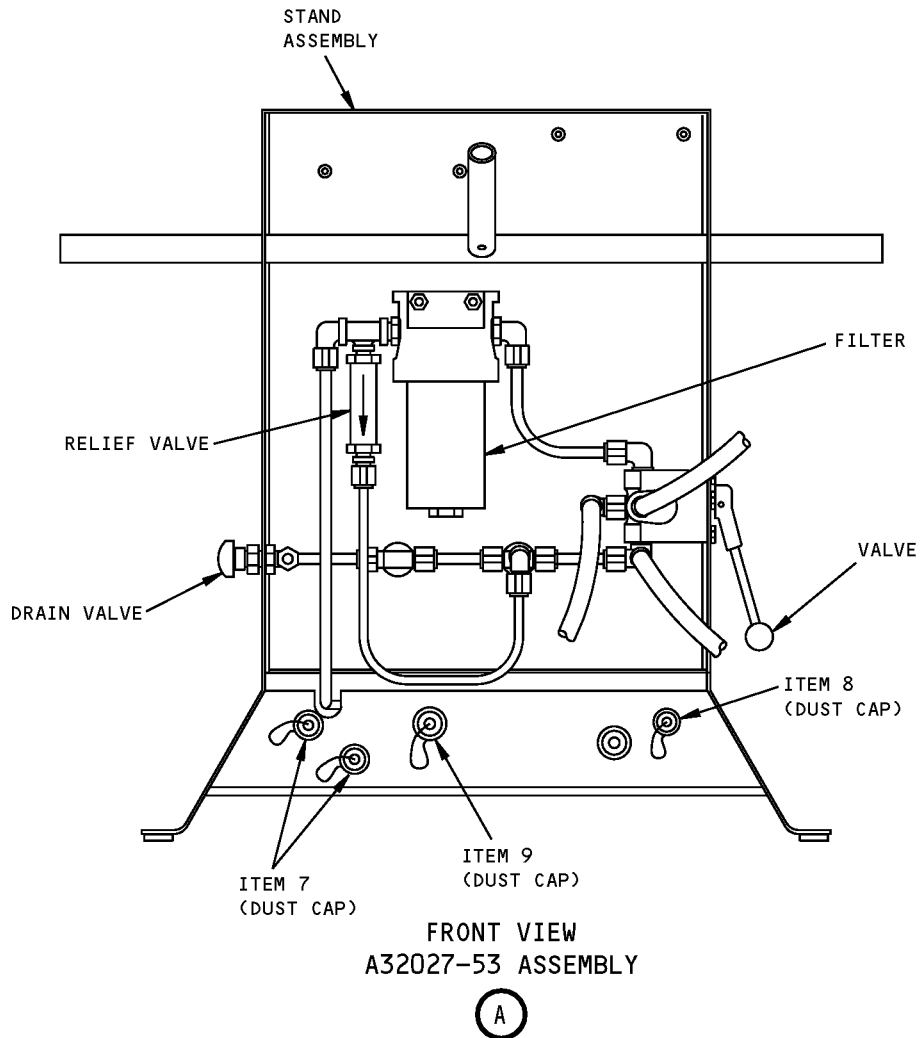


SIDE VIEW  
A32027-53  
ASSEMBLY



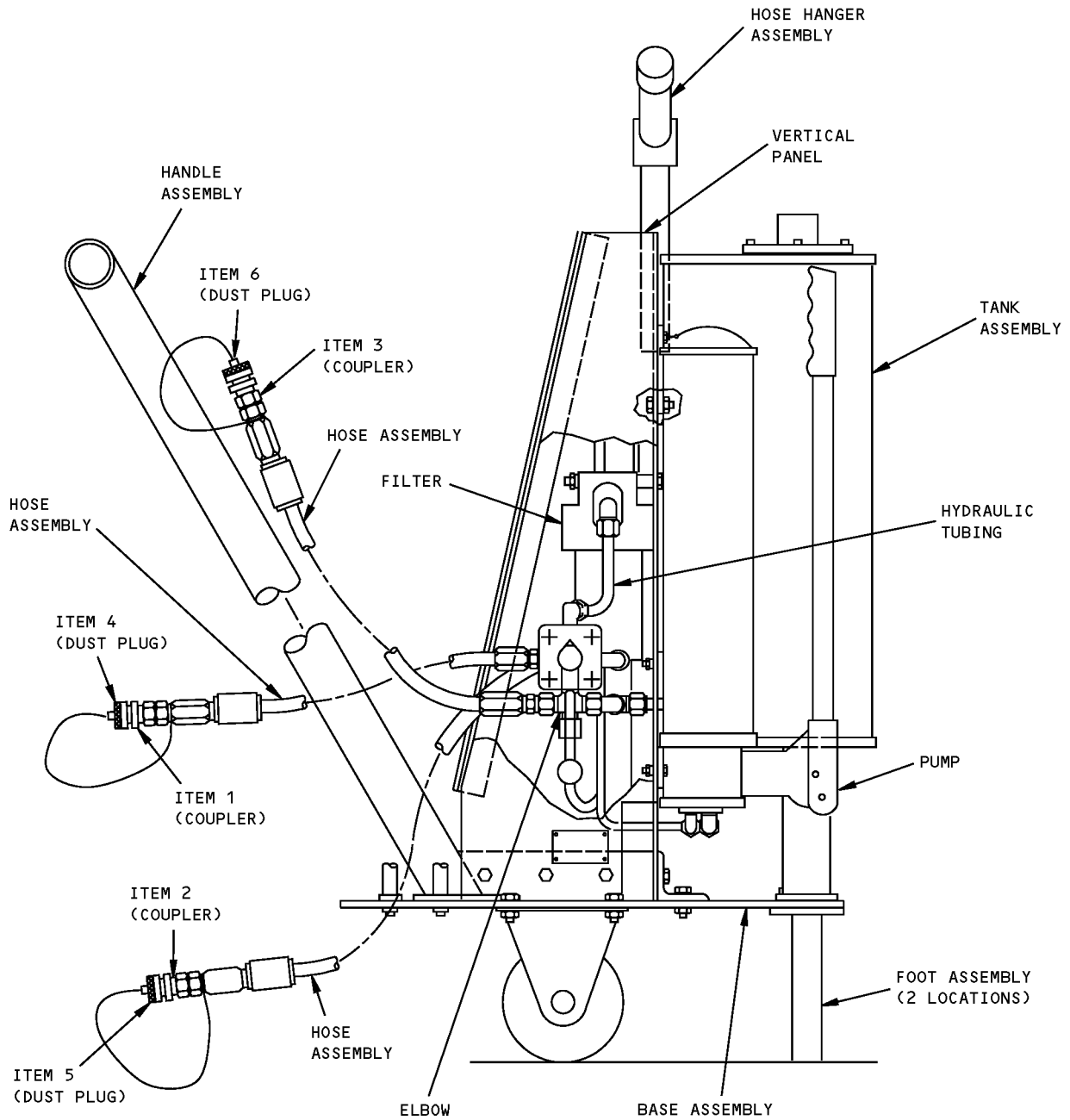
**Retraction/Extension Landing Gear Actuator Pump  
Figure 1 (Sheet 2 of 7)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



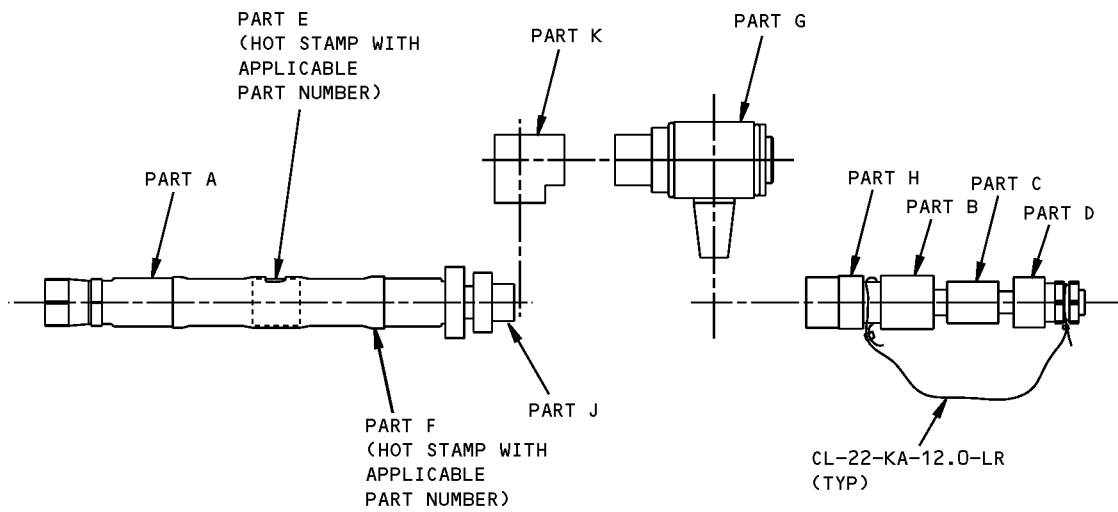
**Retraction/Extension Landing Gear Actuator Pump  
Figure 1 (Sheet 3 of 7)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



A32027-178 PUMP SHOWN  
A32027-175,-176 SIMILAR

**Retraction/Extension Landing Gear Actuator Pump  
Figure 1 (Sheet 4 of 7)**



**A32027  
ADAPTER ASSEMBLY CONFIGURATION**

**Retraction/Extension Landing Gear Actuator Pump  
Figure 1 (Sheet 5 of 7)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

ADAPTER ASSEMBLY CONFIGURATION CHART								
PART NUMBER		PART A	PART B	PART C	PART D	PART E	PART F	PART G
A32027-36	1	---	---	ITEM 10	ITEM 7	---	---	---
A32027-37	1	---	---	SVHN6-6FEPR	ITEM 8	---	---	---
A32027-38	2	---	---	SVHN8-8FEPR	ITEM 8	---	---	---
A32027-46	1	---	---	SVHN4-4FEPR	ITEM 7	---	---	---
A32027-179	2	3041201-12-12-12-9	0201-12-8	ITEM 12	ITEM 8	MARKER	MARKER	S2201E-12-12
A32027-180	2	3041201-12-12-12-9	0201-12-8	ITEM 11	ITEM 7	MARKER	MARKER	S2201E-12-12
A32027-146	2	3041201-8-6-6-8	0102-8-6	ITEM 12	ITEM 8	MARKER	MARKER	---
A32027-147	2	3041201-10-8-8-9	0201-8-6	ITEM 10	ITEM 7	MARKER	MARKER	---
A32027-181	2	3041201-10-8-8-9	0201-8-6	ITEM 12	ITEM 8	MARKER	MARKER	---
A32027-182	2	3041201-6-6-6-8	0102-8-6	ITEM 10	ITEM 7	MARKER	MARKER	---
A32027-150	2	3041201-10-6-8-9	0102-8-6	ITEM 12	ITEM 8	MARKER	MARKER	---
A32027-151	2	3041201-8-8-8-9	0201-8-6	ITEM 10	ITEM 7	MARKER	MARKER	---
A32027-155	3	---	0201-12-8	ITEM 12	ITEM 8	MARKER	MARKER	12-U6EF-S
A32027-156	3	---	0201-8-4	SVHN4-4FEPR	ITEM 7	---	---	---
A32027-168	2	3041201-16-16-16-9	0201-12-8	ITEM 12	ITEM 8	MARKER	MARKER	S2101E-12-12

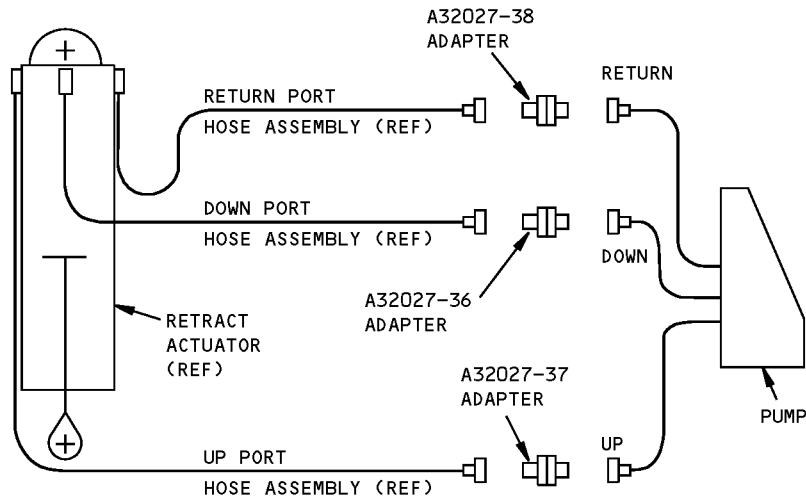
PART NUMBER (CONT)				
		PART H	PART G	PART K
A32027-36	1	0111-6-6	---	---
A32027-37	1	0111-6-8	---	---
A32027-38	2	0111-8-10	---	---
A32027-46	1	0111-4-4	---	---
A32027-179	2	---	---	---
A32027-180	2	---	---	---
A32027-146	2	---	---	---
A32027-147	2	---	---	---
A32027-181	2	---	---	---
A32027-182	2	---	---	---
A32027-150	2	---	---	---
A32027-151	2	---	---	---
A32027-155	3	---	---	---
A32027-156	3	0111-8-12	---	---
A32027-168	2	---	0201-16-12	2202-12-12

- 1 FOR USE ON 767-200/-300
- 2 FOR USE ON OTHER AIRPLANES
- 3 FOR USE ON 767-400

A32027 ADAPTER ASSEMBLY  
PART NUMBERS AND COMPONENTS

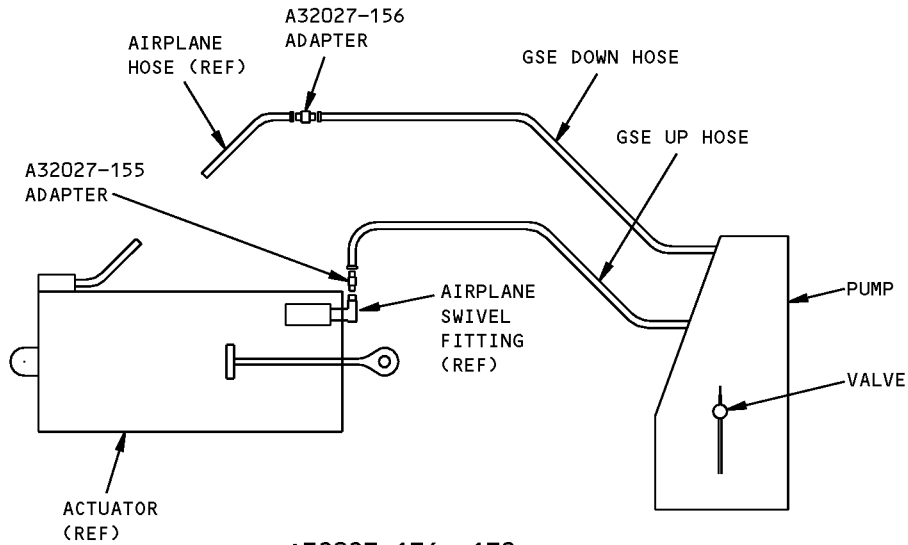
Retraction/Extension Landing Gear Actuator Pump  
Figure 1 (Sheet 6 of 7)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**MLG RETRACTION/EXTENSION PUMP SCHEMATIC**  
**A32027-53,-175,-176,-178**  
**767-200,-300**

(A)



**A32027-176,-178**  
**MAIN LANDING GEAR RETRACTION/EXTENSION**  
**767-400**

**Retraction/Extension Landing Gear Actuator Pump**  
**Figure 1 (Sheet 7 of 7)**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	SVHC4-4FEPR	COUPLER	V78357
2	SVHC6-6FEPR	COUPLER	V78357
3	SVHC8-8FEPR	COUPLER	V78357
4	AMPH-4	DUST PLUG	V78357
5	AMPH-6	DUST PLUG	V78357
6	AMPH-8	DUST PLUG	V78357
7	SMCH-4	DUST PLUG	V78357
8	SMCH-6	DUST PLUG	V78357
9	SMCH-8	DUST PLUG	V78357
10	SVHN4-6FEPR	NIPPLE	V78357
11	SVHN4-8FEPR	NIPPLE	V78357
12	SVHN6-8FEPR	NIPPLE	V78357



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32042-1**

**NAME:** FIXTURE - FUNCTIONAL TEST, SIDE STRUT SPRING ASSEMBLY

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32042-1 fixture is used during component maintenance on all 767 airplanes. A32042 is used to test the strength and load deflection characteristics of the side strut spring. The spring assembly is mounted into the A32042 and force gage readings are noted. Refer to CMM 32-32-30 for complete usage instructions. A32042-1 consists of:

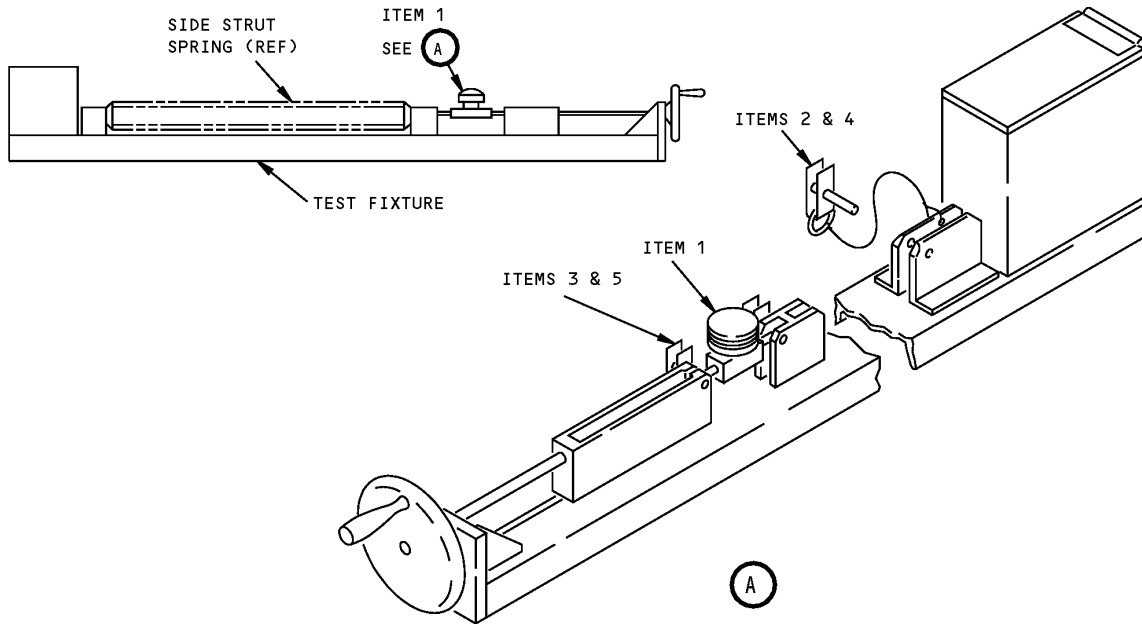
<b>A32042-1</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	TEST FIXTURE ASSEMBLY	A32042-2
1	GAGE BLOCK ASSEMBLY	A32042-3
1	STORAGE BOX	

**WEIGHT:** 50 lbs (23 kg)

**DIMENSIONS:** 4 x 9 x 58 inches (102 x 229 x 1473 mm)



**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Side Strut Spring Assembly Functional Test Fixture**  
**Figure 1**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	X-ST-0-500	FORCE GAGE	
2	CL-21-KA-10.0LR	CABLE ASSEMBLY	
3	CL-63-KA-10.0	CABLE ASSEMBLY	
4	NAS1336C2C13D	QUICK RELEASE PIN	
5	NAS1334C2C12D	QUICK RELEASE PIN	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32050-1**

**NAME:** TORQUE FIXTURE - ACTUATOR PISTON, MAIN LANDING GEAR (MLG) AND NOSE LANDING GEAR (NLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

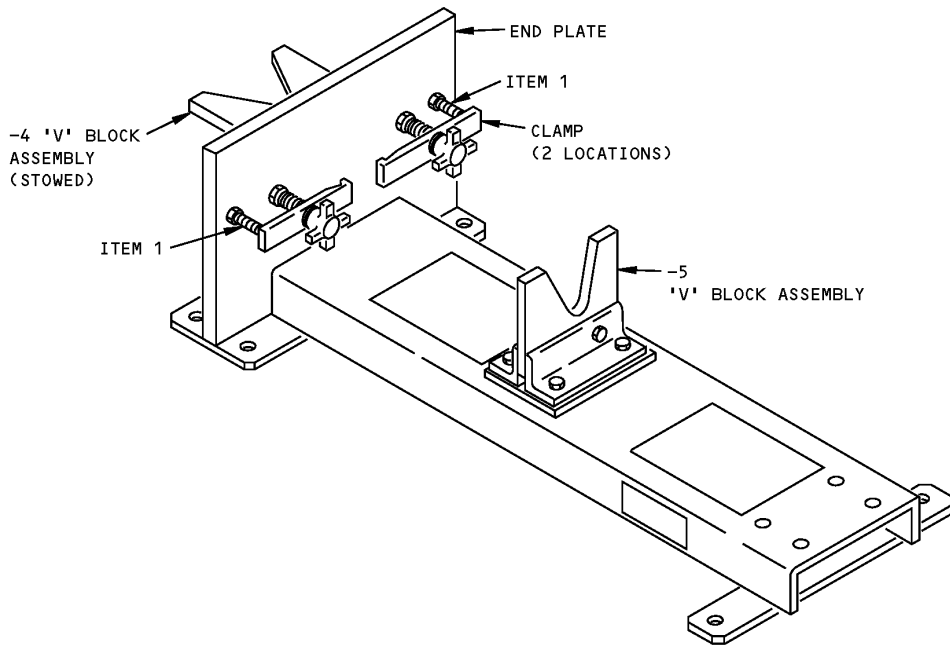
**USAGE & DESCRIPTION:** The A32050-1 torque fixture is used on all 767 airplanes. An exception is that the A32050-1 torque fixture is used on 767-400 nose landing gear only and it is not used on 767-400 main landing gear. A32050 is used to hold and support the NLG steering actuator piston or the MLG retract actuator piston when removing or installing the piston rod end. Refer to CMM 24-09-39, CMM 32-32-00 and CMM 32-51-100 for further usage instructions. A32050-1 consists of:

A32050-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FIXTURE ASSEMBLY	A32050-2
2	SLOT HEEL CLAMP	A32050-3
1	V-BLOCK ASSEMBLY	A32050-4
1	V-BLOCK ASSEMBLY	A32050-5
1	STORAGE BOX	

**WEIGHT:** 90 lbs (41 kg)

**DIMENSIONS:** 11 x 15 x 36 inches (279 x 381 x 914 mm)

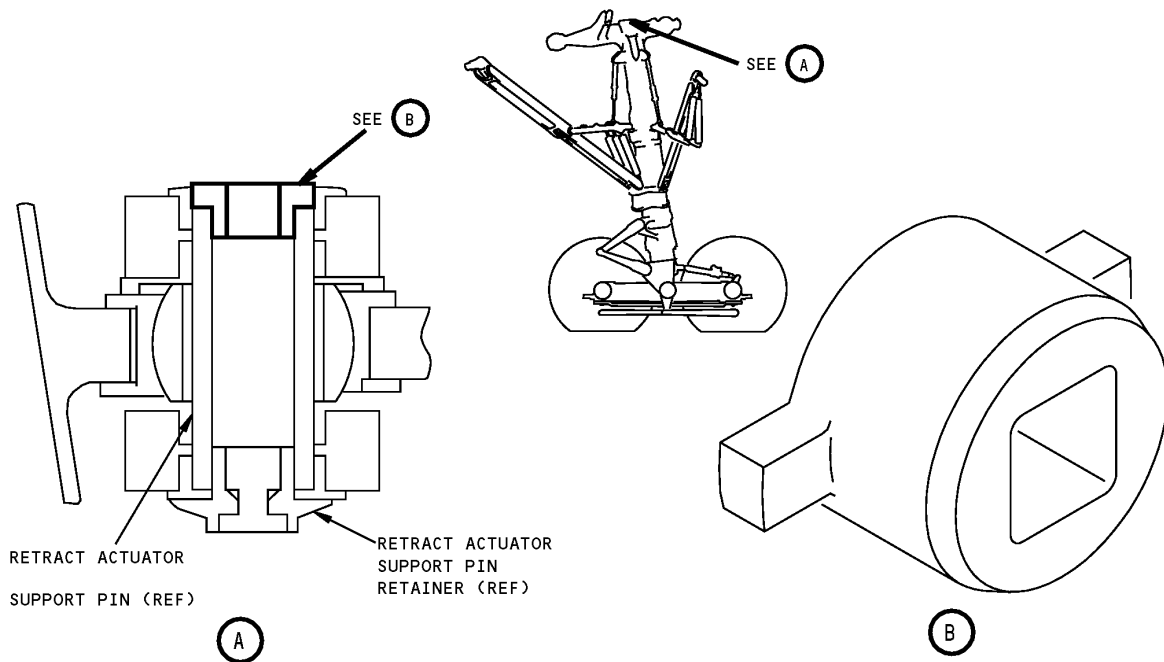
**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear and Nose Landing Gear Actuator Piston Torque Fixture  
 Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32050-13	KEY	

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32065-1****NAME:** RESTRAINING WRENCH - MAIN LANDING GEAR (MLG) RETRACT ACTUATOR SUPPORT PIN**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** NO**USAGE & DESCRIPTION:** The A32065-1 restraining wrench is used on 767-200 and -300 airplanes. A32065 is a heat-treated steel wrench used with a customer-furnished 3/4-inch square drive torque wrench to hold the retract actuator support pin when the actuator support pin retainer is removed. Refer to AMM 32-32-01 for complete usage instructions. The A32065-1 consists of only an A32065-1 restraining wrench.**WEIGHT:** 1 lb (0.5 kg)**DIMENSIONS:** 1 x 3 inches (25 x 76 mm)

**Main Landing Gear Retract Actuator Support Pin Restraining Wrench  
Figure 1**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32068-7**

**NAME:** TEST STAND - TRUCK POSITIONER, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

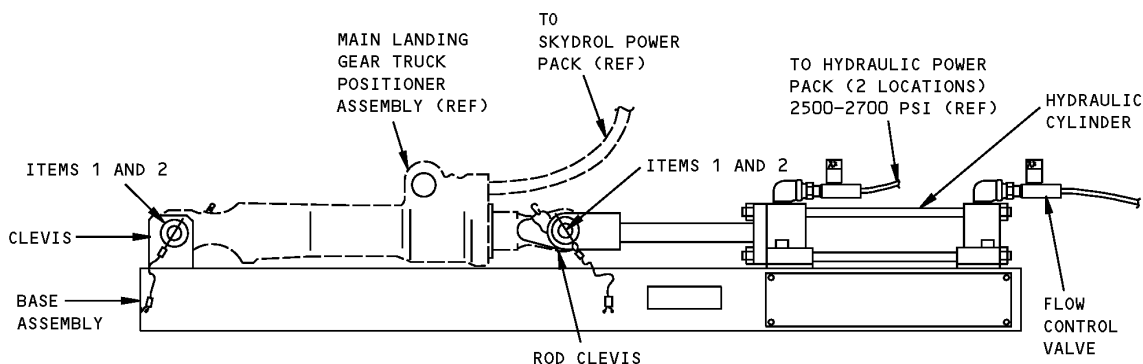
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32068-7 test stand is used on 767-200, -200ER, -300 and -300ER airplanes. A32068 is used to cycle the truck positioner from stowed to extended position to check for leakage. Refer to CMM 32-32-55 for complete usage instructions. A32068-7 consists of a A32068-8 base assembly which includes support clevises and hydraulic fittings.

**WEIGHT:** 130 lbs (59 kg)

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

**NOTE:** A32119 replaces A32068 for future procurement.  
A32068-7 supersedes A32068-1.



**Main Landing Gear Truck Positioner Test Stand  
Figure 1**



767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	CL-22-KA-10.0LR	CABLE ASSEMBLY	V99862
2	NAS1343C6C3.2D	QUICK RELEASE PIN	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32059-13, -27**

**NAME:** HOLDING EQUIPMENT - ACTUATOR, MAIN LANDING GEAR (MLG) DOOR

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32059-13 or -27 holding equipment is used on 767-200 and 767-300 airplanes. A32059-13 is used to hold 273T4521 main landing gear door actuators in the retracted position when performing component maintenance and during functional testing. A32059-27 is used to hold 273T4521 and 273T0073 main landing gear door actuators in the retracted position when performing component maintenance and during functional testing. Either A32059-13 or -27 are used in conjunction with an AN8515-1 wrench set or a F72959 spanner wrench and A32040-15 rod end wrench. Refer to CMM 32-32-19 and CMM 32-32-20 for complete usage instructions. A32059-13 and -27 consists of:

A32059-13		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FIXTURE ASSEMBLY	A32059-1
1	WRENCH	A32059-11
1	STORAGE BOX	

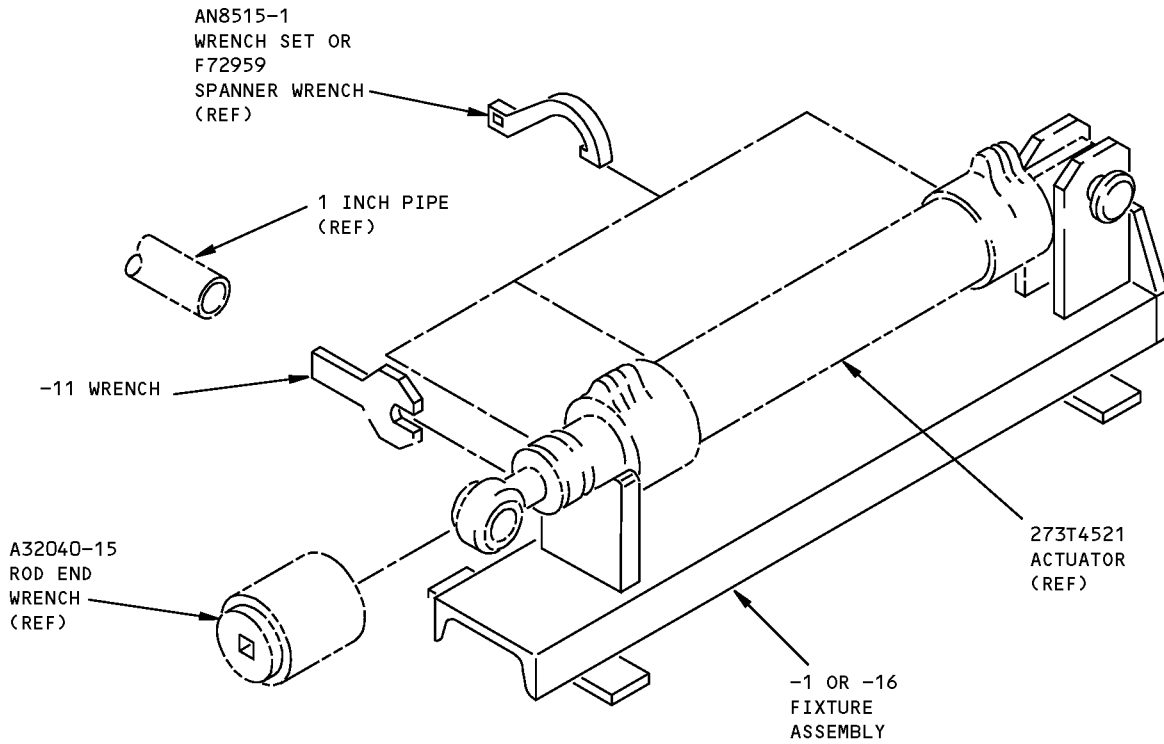
A32059-27		
QUANTITY	NOMENCLATURE	PART NUMBER
1	FIXTURE ASSEMBLY	A32059-16
1	WRENCH	A32059-11
1	WRENCH	A32059-18
1	WRENCH ASSEMBLY	A32059-28
1	STORAGE BOX	

**WEIGHT:** A32059-13 - 20 lbs (9 kg)  
A32059-27 - 23 lbs (10 kg)

**DIMENSIONS:** 10 x 10 x 28 inches (254 x 254 x 711 mm)

**NOTE:** A32059-27 supersedes A32059-14 and -15.  
A32059-13 supersedes A32059-1.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

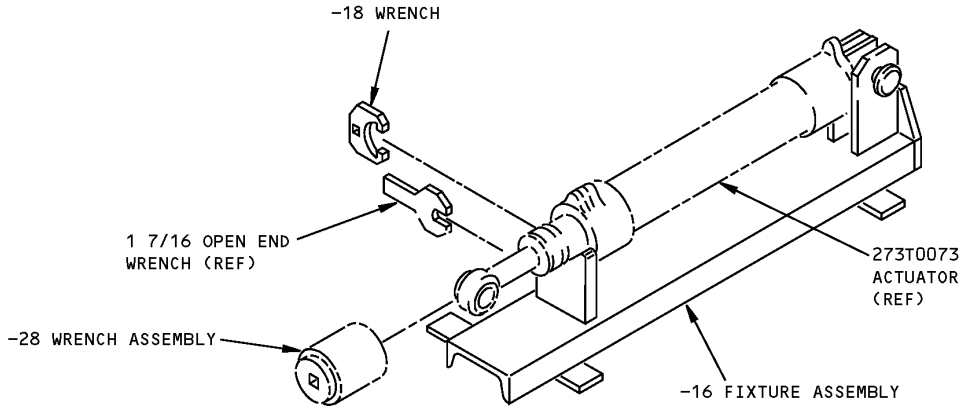


A32059-13,-27

**Main Landing Gear Door Actuator Holding Equipment  
Figure 1 (Sheet 1 of 2)**



ILLUSTRATED TOOL AND EQUIPMENT MANUAL



A32059-27

**Main Landing Gear Door Actuator Holding Equipment  
Figure 1 (Sheet 2 of 2)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	CL-23-KA-12.0LR	LANYARD	V99862

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32070-1**

**NAME:** TORQUE ADAPTER - SNUBBER NUT

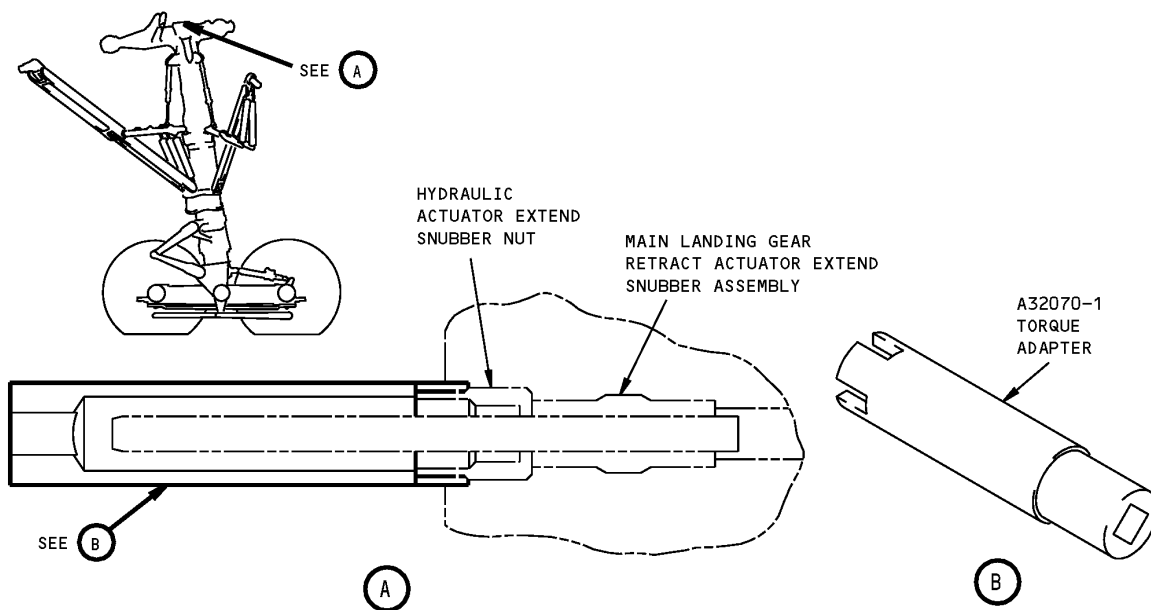
**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32070-1 torque adapter is applicable to 767-200 and -300 airplanes. A32070 is used to torque the main landing gear retract actuator snubber nut. Refer to CMM 32-32-00 for complete usage instructions. A32070-1 consists of an A32070-2 adapter contained in a storage box.

**WEIGHT:** 1 lb (0.5 kg)

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



**Snubber Nut Torque Adapter  
Figure 1**

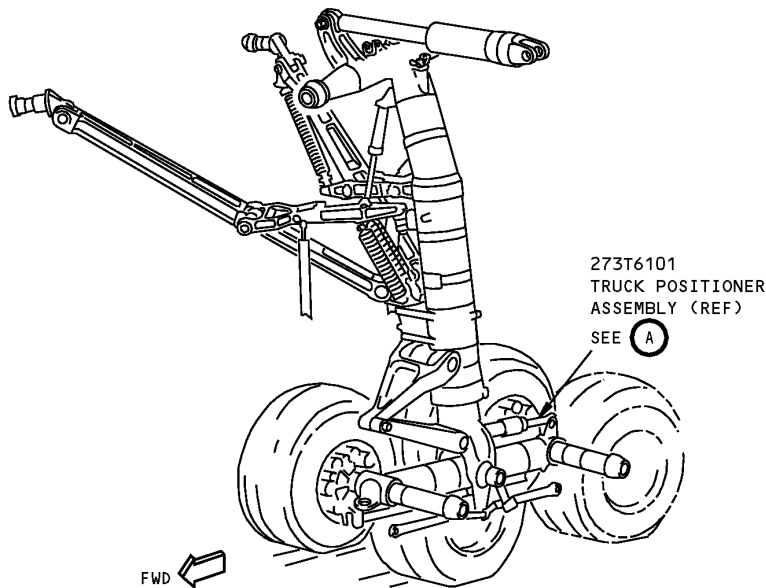


767

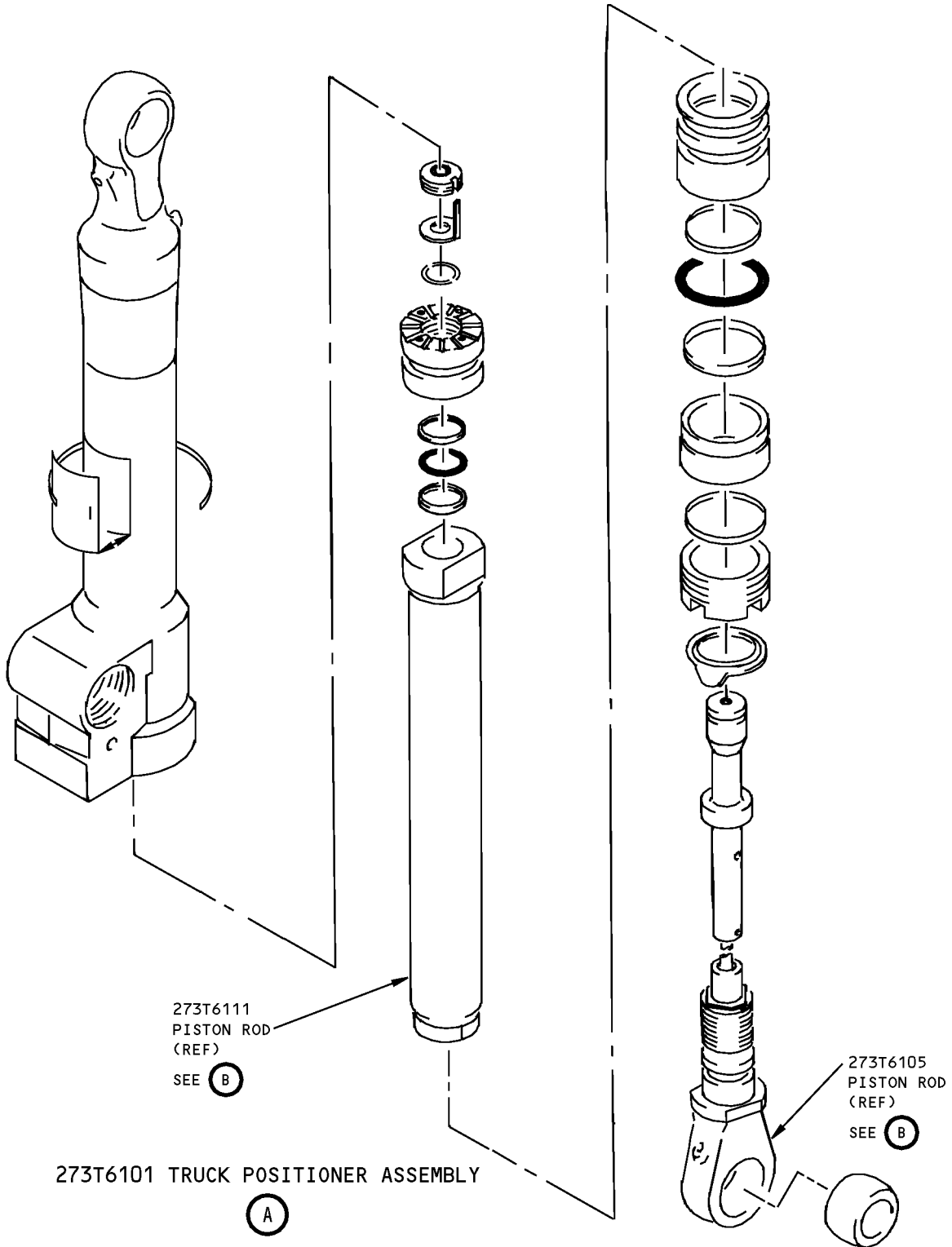
## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32076-5**

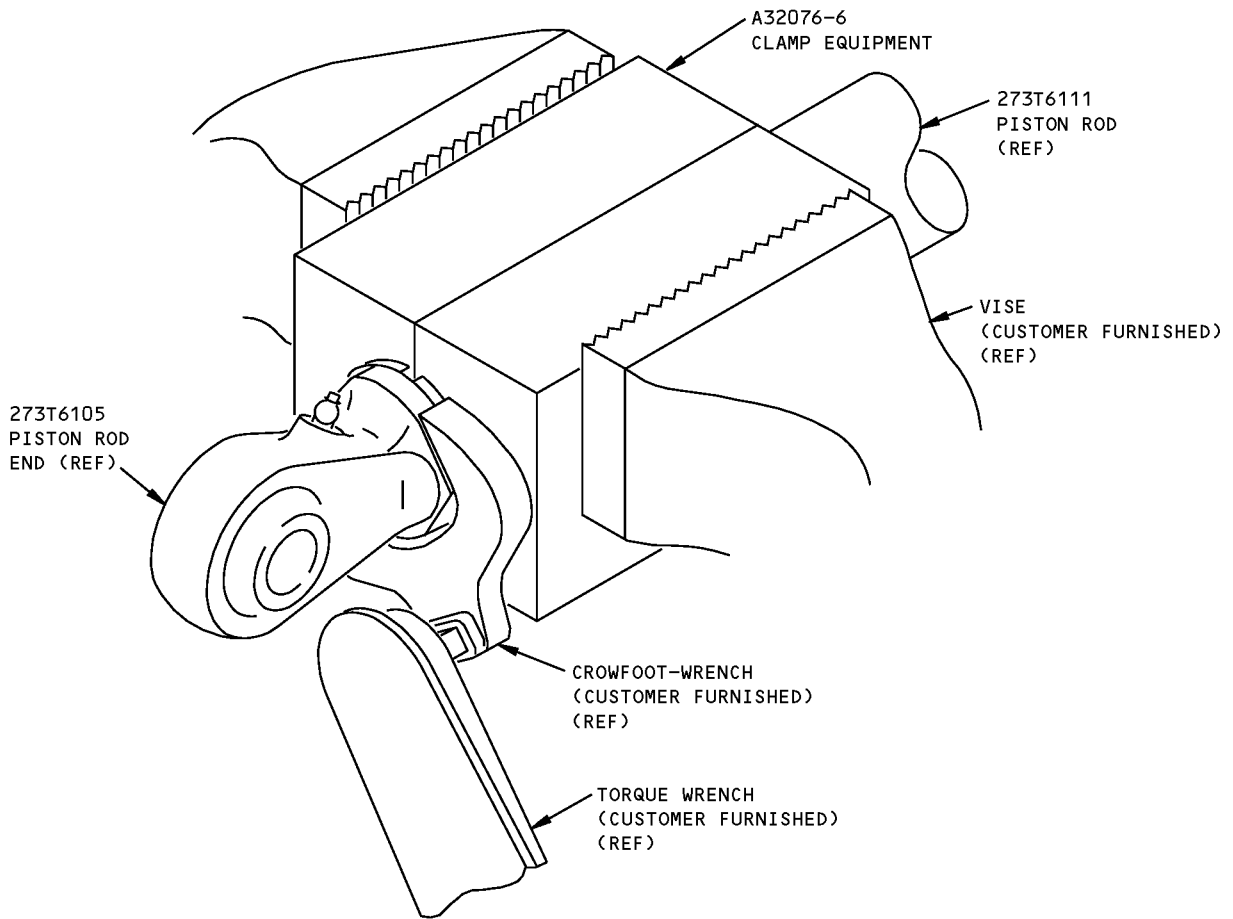
- NAME:** CLAMP EQUIPMENT - PISTON ROD, MAIN LANDING GEAR TRUCK POSITIONER ASSEMBLY
- AIRPLANE MAINTENANCE:** NO
- COMPONENT MAINTENANCE:** YES
- USAGE & DESCRIPTION:** The A32076-5 clamp equipment is used on 767-200 and -300 airplanes. A32076 is used with a customer-furnished vise and crowfoot wrench to install and torque the 273T6105 rod end onto the 273T6111 piston rod. Refer to CMM 32-32-55 for complete usage instructions. The A32076-5 clamp equipment consists of two A32076-6 clamps contained in a storage box.
- WEIGHT:** 10 lbs (4.5 kg)
- DIMENSIONS:** 3 x 4 x 5 inches (76 x 102 x 127 mm)
- NOTE:** A32076-5 supersedes A32076-1.



**Main Landing Gear Truck Positioner Assembly Piston Rod Clamp Equipment  
Figure 1 (Sheet 1 of 3)**



**Main Landing Gear Truck Positioner Assembly Piston Rod Clamp Equipment  
Figure 1 (Sheet 2 of 3)**



**B**

**Main Landing Gear Truck Positioner Assembly Piston Rod Clamp Equipment  
Figure 1 (Sheet 3 of 3)**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32078-1**

**NAME:** ADAPTER SET - RETAINING NUT, ACTUATOR SIDE AND DRAG BRACE, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

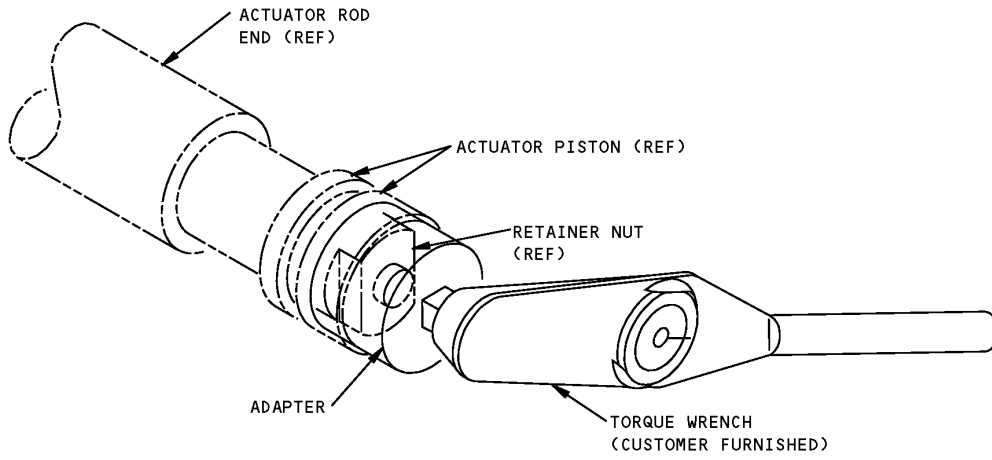
**USAGE & DESCRIPTION:** The A32078-1 adapter set is used on 767-200 and -300 airplanes. A32078 is used to apply torque to the 273T6307 retaining nut on the MLG side brace and drag brace actuators. Refer to CMM 32-32-10 and CMM 32-32-25 for complete usage instructions. A32078-1 consists of:

A32078-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	ADAPTER	A32078-2
1	ADAPTER	A32078-3
1	ADAPTER	A32078-4
1	STORAGE BOX	

**WEIGHT:** 1 lb (0.5 kg)

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

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Actuator Side And Drag Brace Retaining Nut Adapter Set  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32084-1**

**NAME:** HOLDING FIXTURE - PISTON ROD, NOSE LANDING GEAR (NLG) LOCK ACTUATOR

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32084-1 holding fixture is used on all 767 airplanes. A32084 is used to hold the nose gear lock actuator during removal or installation of the rod end. A32084 is used in conjunction with an A32040-12 wrench to remove the rod end. Refer to the current A32084 drawing and CMM 32-32-00, CMM 32-32-19, CMM 32-34-00, CMM 32-34-31 and CMM 32-51-10 for usage.

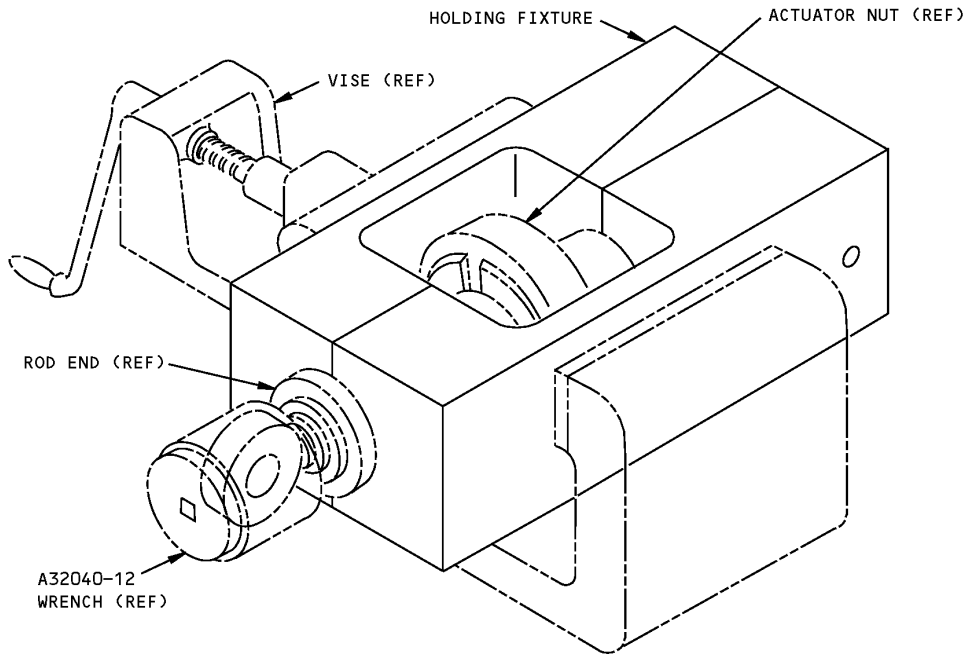
A32084-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	CLAMP-HALF ASSEMBLY	A32084-2
1	CLAMP-HALF	A32084-3
1	STORAGE BOX	

**WEIGHT:** 3 lbs (1.4 kg)

**DIMENSIONS:** 3 x 4 x 7 inches (76 x 102 x 178 mm)



**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**NLG Lock Actuator Piston Rod Holding Fixture  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: G32021-18**

**NAME:** FORCE GAGE EQUIPMENT - LANDING GEAR LEVER

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The G32021-18 force gage equipment is used during component maintenance on all 767 airplanes. G32021 is used to measure the landing gear lever forces. Refer to CMM 32-31-00 for complete usage instructions. G32021-18 consists of:

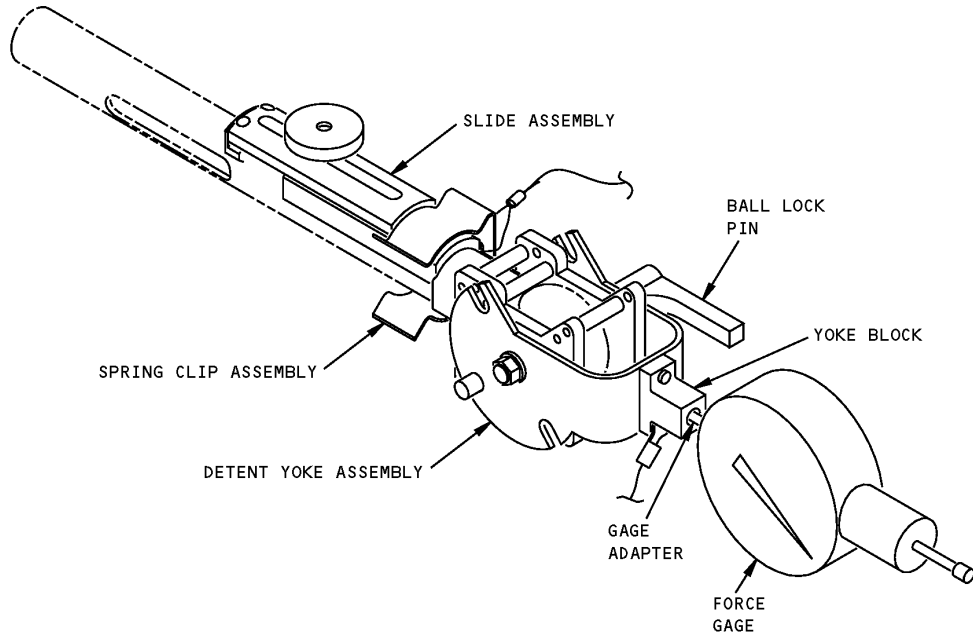
<b>G32021-18</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	SLIDE ASSEMBLY	G32021-2
1	DETENT YOKE ASSEMBLY	G32021-6
1	SPRING CLIP ASSEMBLY	G32021-11
1	GAGE ADAPTER	G32021-19
1	BALL LOCK PIN	CL-4-BLPL-2.0-C
1	FORCE GAGE	FDK 20
1	STORAGE BOX	

**WEIGHT:** 1 lb (0.5 kg)

**DIMENSIONS:** 4 x 6 x 6 inches (102 x 152 x 152 mm)

**NOTE:** G32021-18 supersedes G32021-1.

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Landing Gear Lever Force Gage Equipment**  
**Figure 1**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32087-1**

**NAME:** FIXTURE - HOLDING, MAIN LANDING GEAR RETRACT ACTUATOR

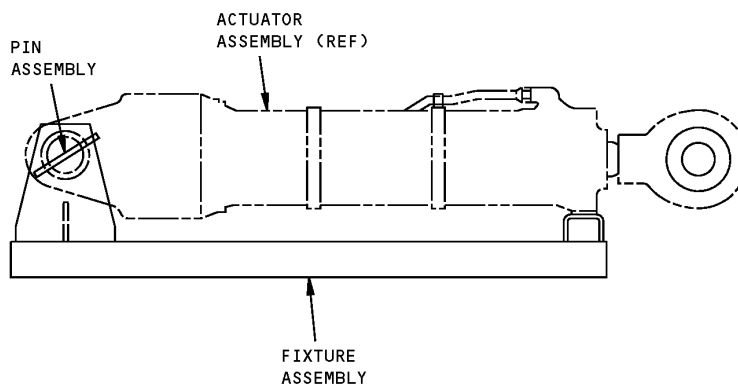
**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32087-1 fixture is used on 767-200, -200ER, -300 and -300ER airplanes. A32087 is used to hold the main landing gear retract actuator during functional testing. Refer to CMM 32-32-00 for complete usage instructions. A32087-1 consists of a A32087-2 fixture assembly and a A32087-3 pin assembly.

**WEIGHT:** 60 lbs (27 kg)

**DIMENSIONS:** 9 x 11 x 43 inches (223 x 279 x 1092 mm)



**Main Landing Gear Retract Actuator Holding Fixture  
Figure 1**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A32117-1

**NAME:** LOCATING JIG - SEQUENCE VALVE, MAIN LANDING GEAR (MLG) OPERATED

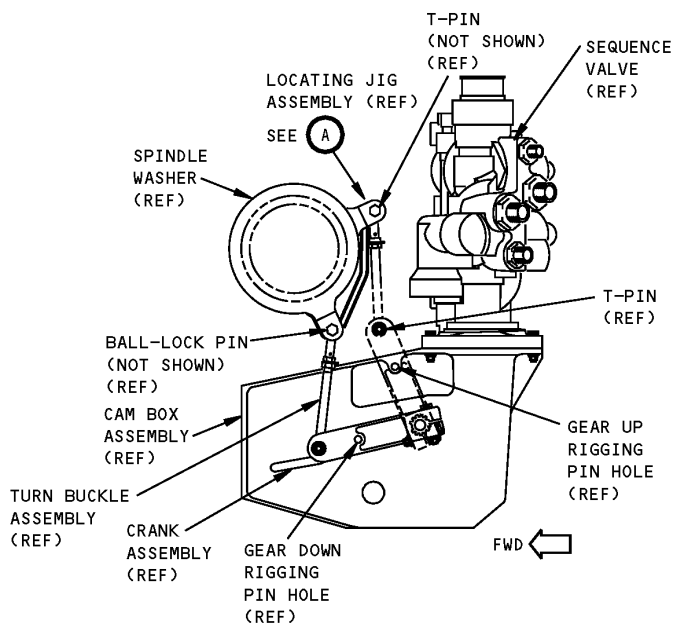
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

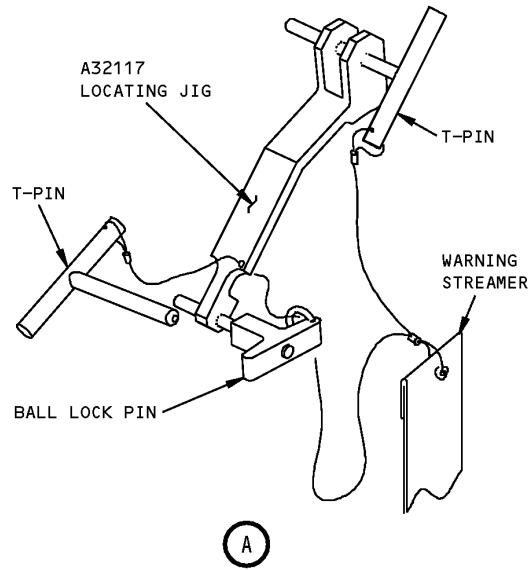
**USAGE & DESCRIPTION:** The A32117-1 locating jig is used on 767-400ER airplanes. A32117 is used to simulate the up position of the spindle washer of the main landing gear for use in rigging the crank arm of the sequence valve. Refer to AMM 32-32-08 for complete usage instructions. A32117-1 consists of an A32117-2 locating jig assembly contained in a storage box.

**WEIGHT:** 2 lbs (0.9 kg)

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



**Main Landing Gear Operated Sequence Valve Locating Jig  
Figure 1 (Sheet 1 of 2)**



**Main Landing Gear Operated Sequence Valve Locating Jig  
Figure 1 (Sheet 2 of 2)**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32119-1**

**NAME:** TEST STAND ASSEMBLY - TRUCK POSITIONER, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

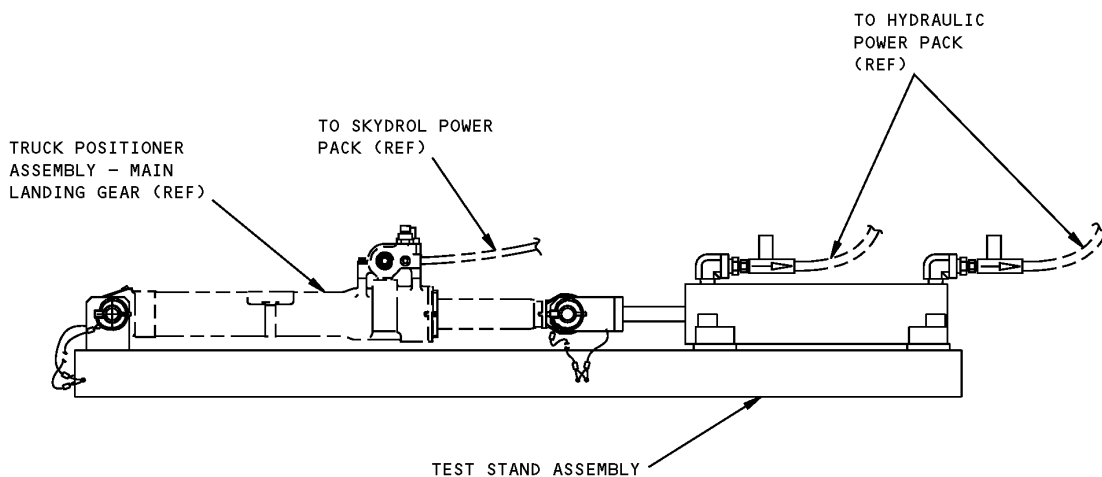
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32119-1 test stand assembly is used on all 767 airplanes. A32119 is used to cycle the truck positioner from stowed to extended position to check for leakage. Refer to CMM 32-32-55 for complete usage instructions. A32119-1 consists of an A32119-2 test stand assembly contained in a storage box.

**WEIGHT:** 160 lbs (73 kg)

**DIMENSIONS:** 10 x 10 x 56 inches (254 x 254 x 1422 mm)

**NOTE:** A32119 replaces A32068 for future procurement.



**Main Landing Gear Truck Positioner Test Stand Assembly**  
**Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32113-1**

**NAME:** PIN PULLER EQUIPMENT - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32113-1 pin puller equipment is used on 767-400 airplanes. A32113 is used to remove and install the MLG retract actuator pin. Refer to AMM 32-32-01 for complete usage instructions. A32113-1 consists of:

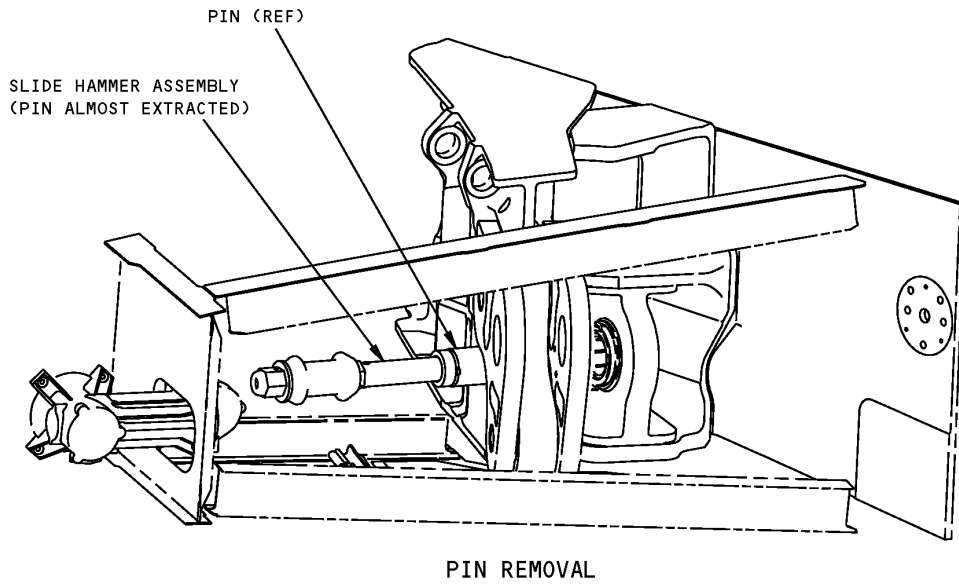
A32113-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SLIDE HAMMER ASSEMBLY	A32113-2
1	RETAINER NUT	A32113-13
1	RESTRAINING SOCKET	A32113-21
1	ALIGNMENT PIN	A32113-22
1	3/4 DRIVE 1.875 SOCKET	A32113-23
1	3/4 DRIVE 16.0 EXTENSION	A32113-24
1	3/4 DRIVE 5.0 EXTENSION	A32113-25
1	1/2 DRIVE 1.875 CROWFOOT WRENCH	A32113-26
1	STORAGE BOX	

**WEIGHT:** 25 lbs (11 kg)

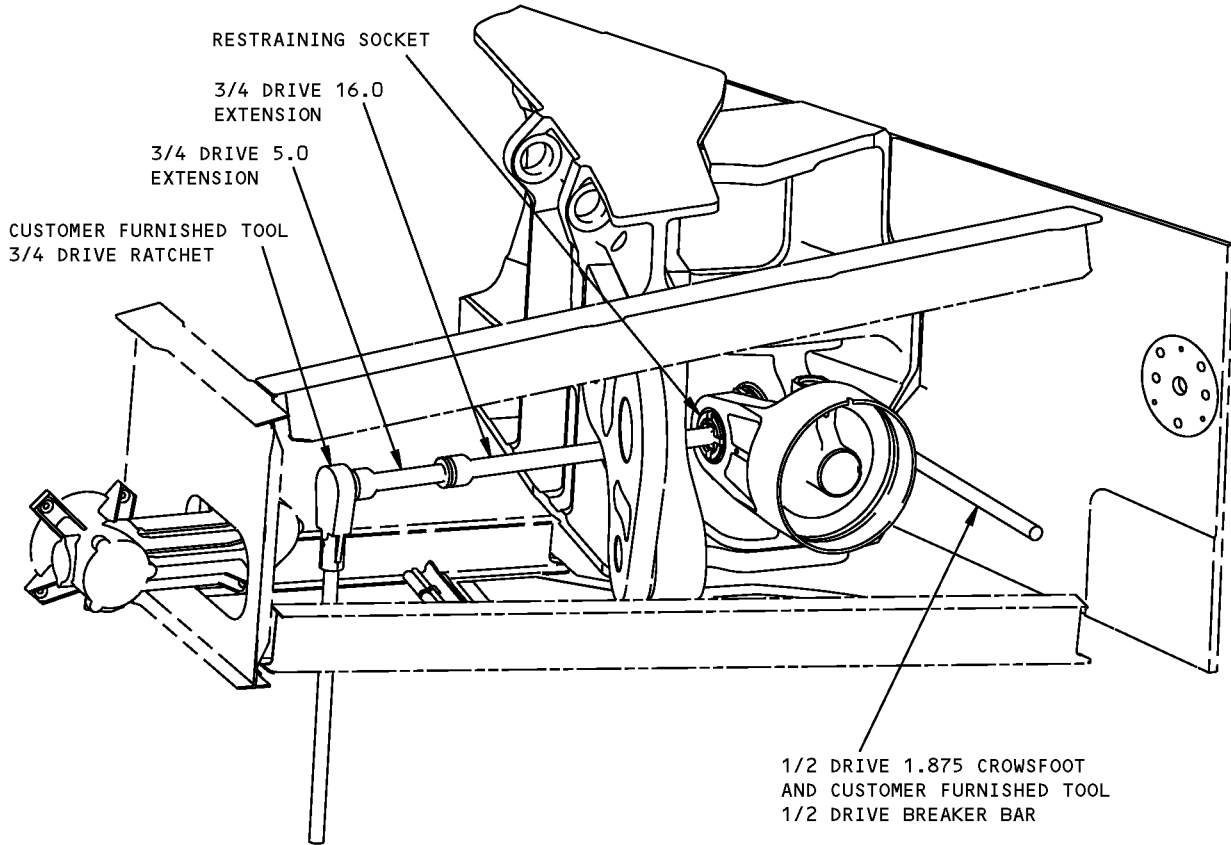
**DIMENSIONS:** 5 x 5 x 35 inches (127 x 127 x 889 mm)



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Main Landing Gear Retract Actuator Pin Puller Equipment  
Figure 1 (Sheet 1 of 2)**



**PIN NUT REMOVAL**

**Main Landing Gear Retract Actuator Pin Puller Equipment  
Figure 1 (Sheet 2 of 2)**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: J32057-1, -94, -108**

**NAME:** FIXTURE EQUIPMENT - LANDING GEAR ACTUATOR ASSEMBLY

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The J32057-1, -94 or -108 fixture equipment is used on 767-400 airplanes. J32057 fixture equipment is used in conjunction with a customer furnished J32055 torque adapter set and J32059 spanner wrench equipment in overhauling landing gear actuator components. J32057-108 allows complete applicability, is noted in the tool contents list, illustrated in the usage graphics and replaces J32057-1 and -94 for future procurement. Refer to CMM 32-35-86 for complete usage information. J32057-108 consists of:

J32057-108		
QUANTITY	NOMENCLATURE	PART NUMBER
1	LARGE BASE ASSEMBLY	J32057-109
1	SMALL BASE ASSEMBLY	J32057-95
2	HAND DRIVE ASSEMBLY	J32057-4
1	LIFT PLATE ASSEMBLY	J32057-5
2	INSERTION ROD ASSEMBLY	J32057-7
2	EXTRACTION ROD ASSEMBLY	J32057-8
1	SMALL NARROW CLAMP ASSEMBLY	J32057-9
1	SMALL WIDE CLAMP ASSEMBLY	J32057-10
1	WRENCH ASSEMBLY	J32057-11
1	1/2 KEY ASSEMBLY	J32057-12
1	DATA PACKAGE	J32057-128
1	1/4 KEY ASSEMBLY	J32057-13
1	1/5 KEY ASSEMBLY	J32057-14
2	SHORT KNOB ASSEMBLY	J32057-15
2	ANGLE PULL TUBE	J32057-16
1	2 INCH DRIVE PIN	J32057-17
1	3 INCH DRIVE PIN	J32057-18
1	COMPRESSION PLATE	J32057-19
1	ROD END HOLDER	J32057-20
1	REACTION TUBE	J32057-21
1	SUPPORT PIN	J32057-22



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

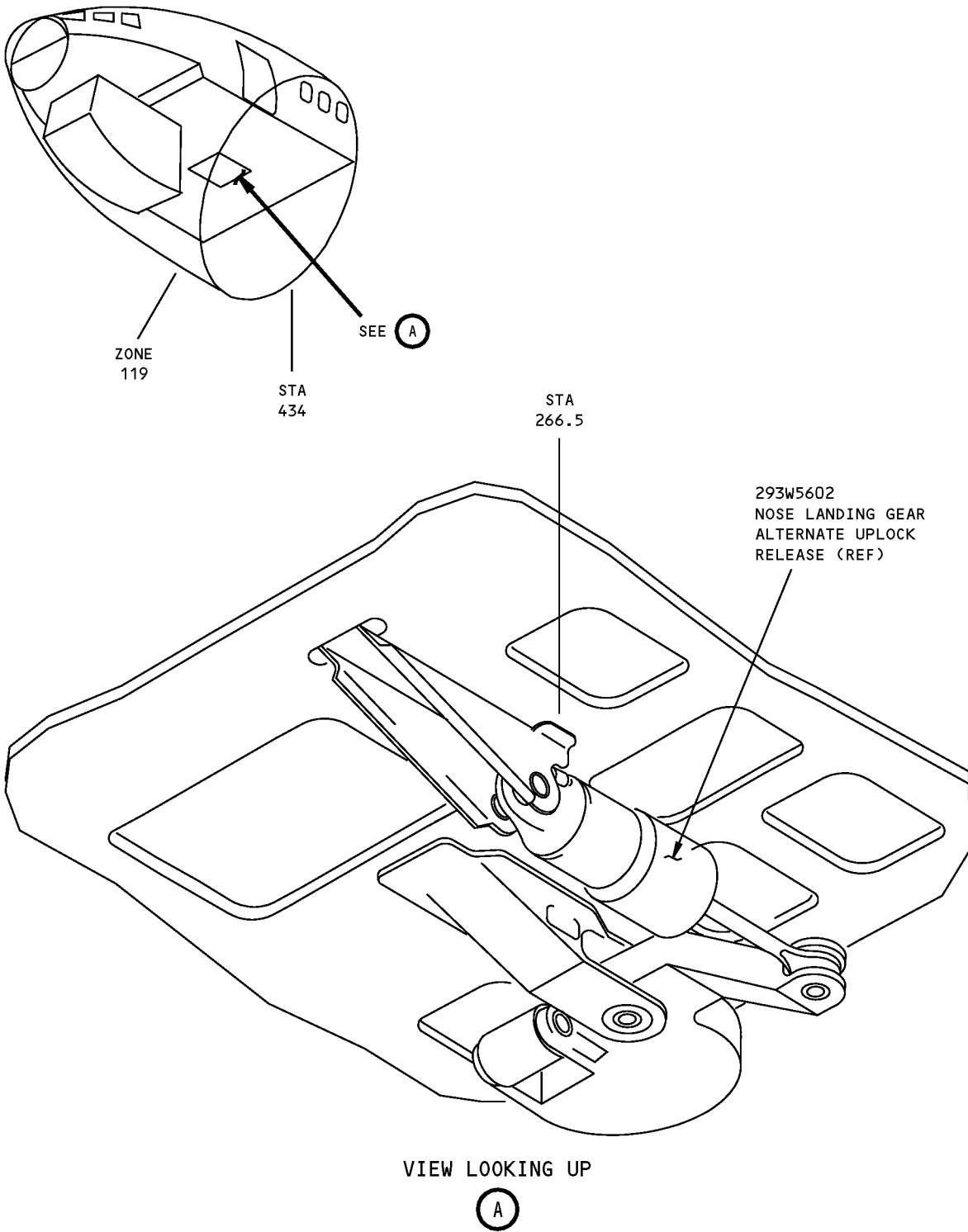
J32057-108		
QUANTITY	NOMENCLATURE	PART NUMBER
1	TORQUE SUPPORT BLOCK	J32057-23
1	SMALL FLAT CLAMP ASSEMBLY	J32057-96
1	SUPPORT ASSEMBLY	J32057-110
12	FLANGED BLOCK CLAMP ASSEMBLY	J32057-111
3	LARGE TOP CLAMP ASSEMBLY	J32057-112
1	SMALL CLAMP ASSEMBLY	J32057-113
2	SHORT SCREW	J32057-114
4	LONG SCREW	J32057-115
2	MEDIUM TOP CLAMP ASSEMBLY	J32057-143
1	STORAGE BOX	

**WEIGHT:** J32057-1 - 120 lbs (54 kg)  
J32057-94 - 130 lbs (59 kg)  
J32057-108 - 135 lbs (61 kg)

**DIMENSIONS:** J32057-1 - 10 x 16 x 46 inches (254 x 406 x 1168 mm)  
J32057-94 - 10 x 16 x 48 inches (254 x 406 x 1219 mm)  
J32057-108 - 10 x 15 x 46 inches (254 x 381 x 1168 mm)

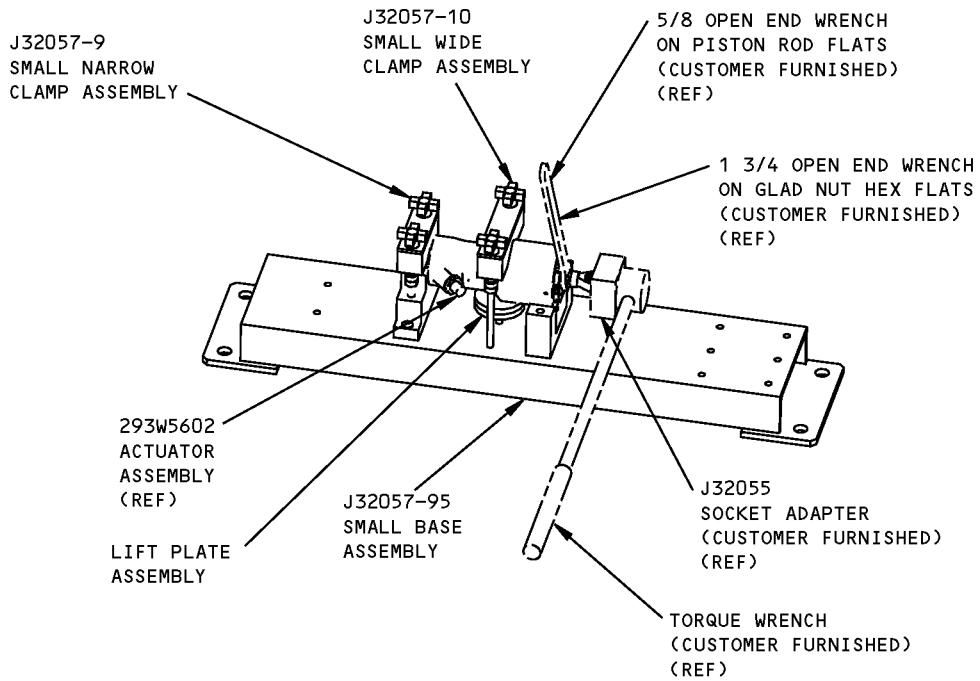
**NOTE:** J32057-108 replaces J32057-1 and -94 for future procurement.

**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

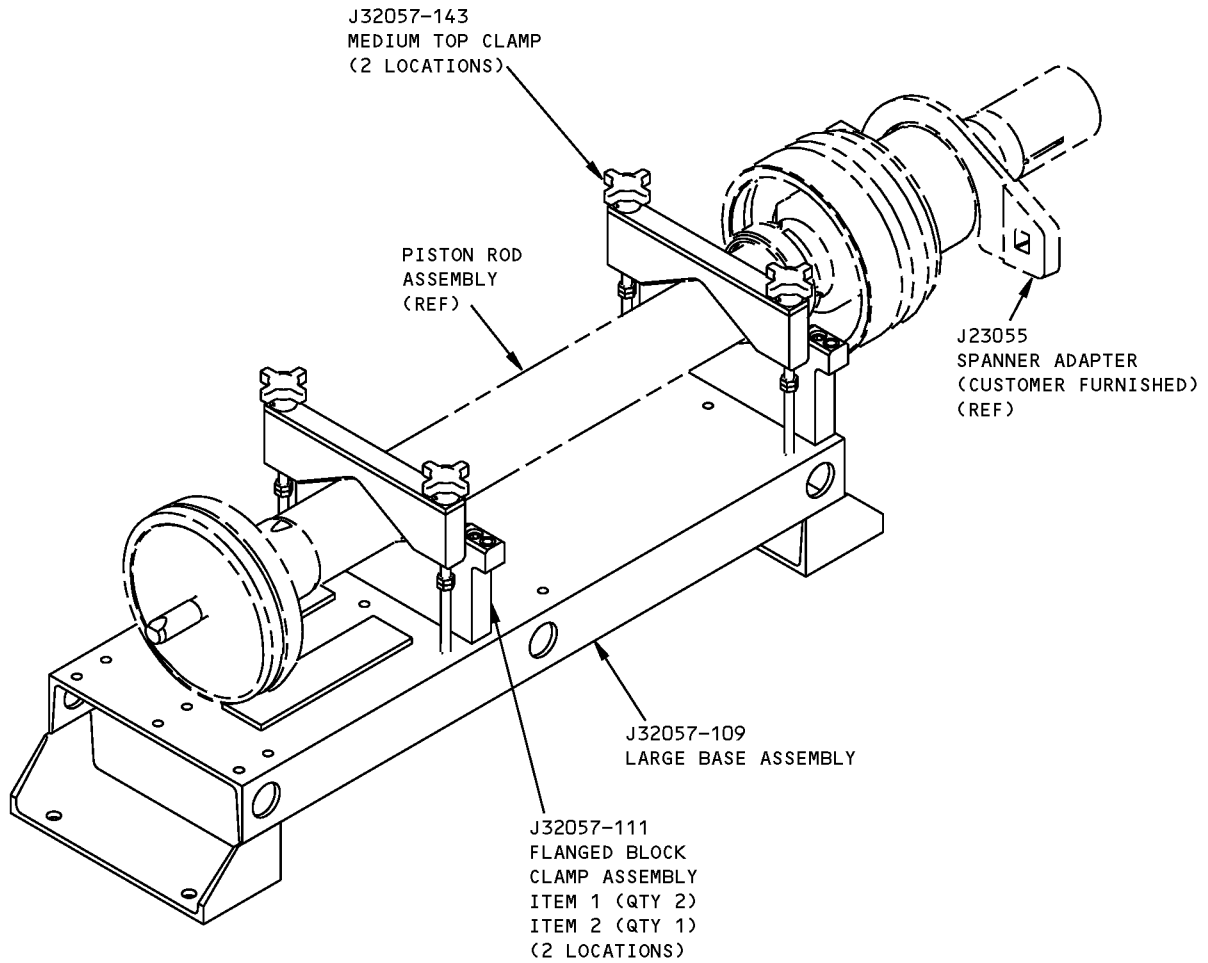


**Landing Gear Actuator Assembly Fixture Equipment  
Figure 1 (Sheet 1 of 13)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

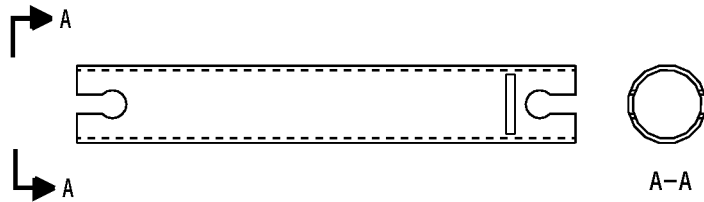


**Landing Gear Actuator Assembly Fixture Equipment  
Figure 1 (Sheet 2 of 13)**

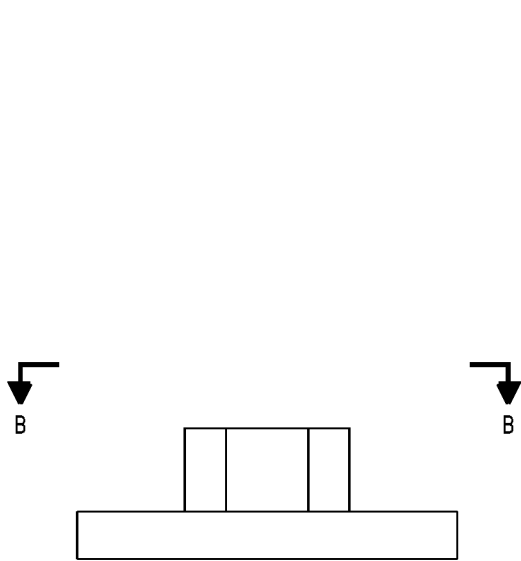


**Landing Gear Actuator Assembly Fixture Equipment  
Figure 1 (Sheet 3 of 13)**

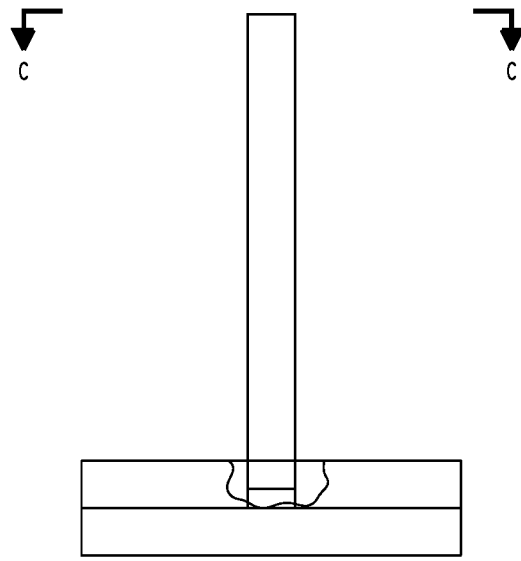
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



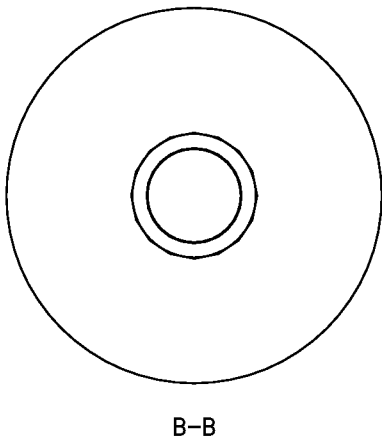
J32057-2  
2-INCH DRIVE PIN SHOWN  
(J32057-18 SIMILAR)



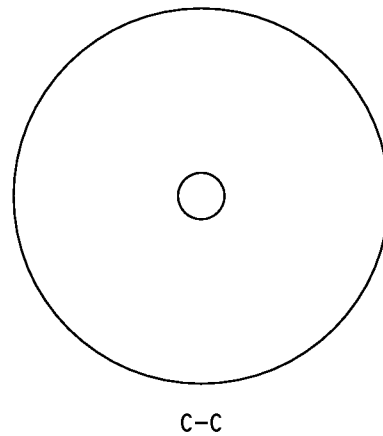
J32057-4  
HAND DRIVE ASSEMBLY



J32057-5  
LIFT PLATE ASSEMBLY



B-B

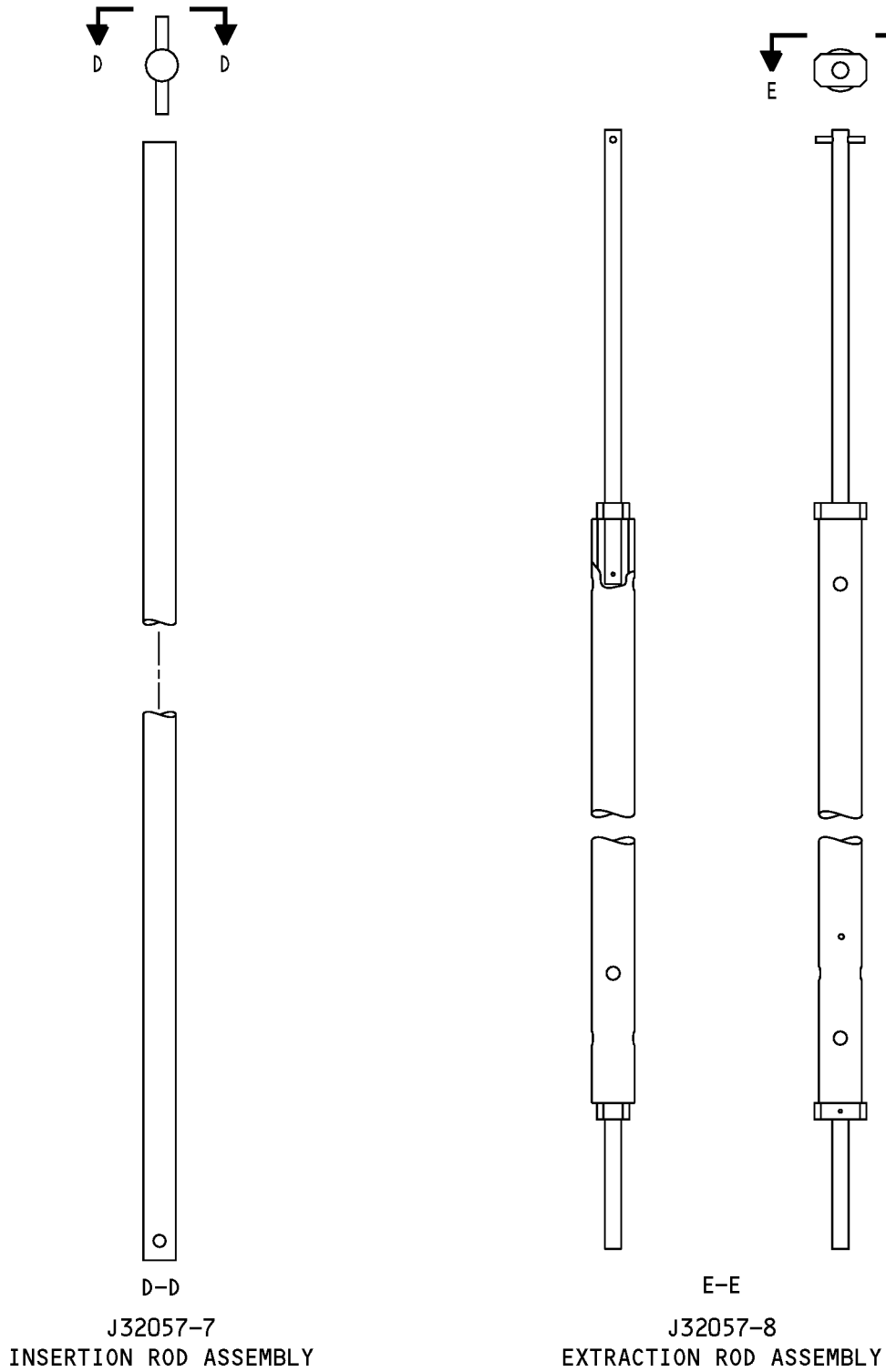


C-C

**Landing Gear Actuator Assembly Fixture Equipment**  
**Figure 1 (Sheet 4 of 13)**

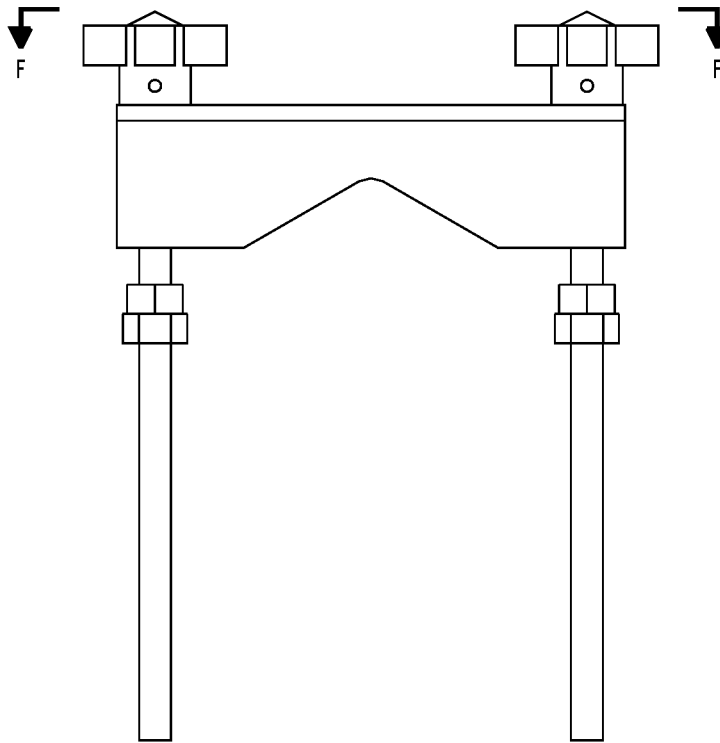


**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

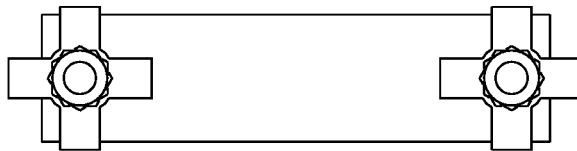


**Landing Gear Actuator Assembly Fixture Equipment  
Figure 1 (Sheet 5 of 13)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



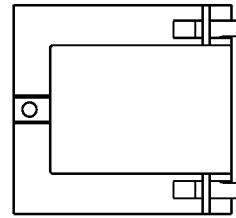
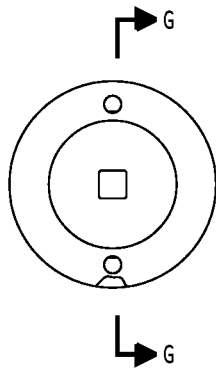
J32057-10  
SMALL WIDE CLAMP ASSEMBLY SHOWN  
(J32057-9 SIMILAR)



F-F

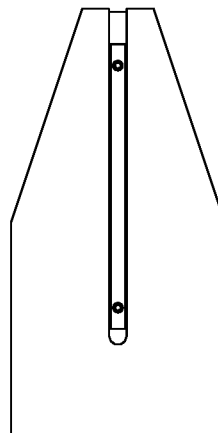
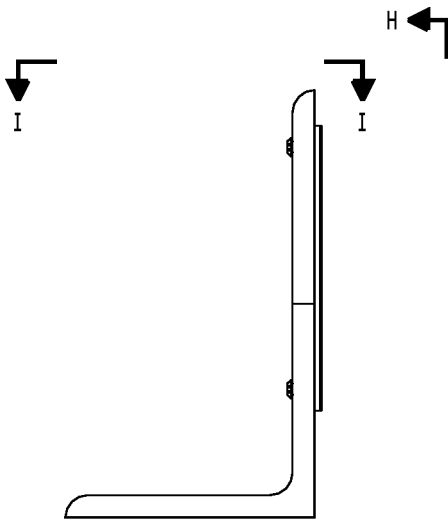
**Landing Gear Actuator Assembly Fixture Equipment**  
**Figure 1 (Sheet 6 of 13)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

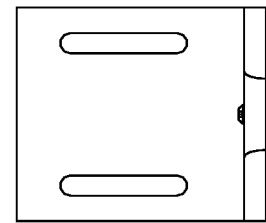


G-G

J32057-11  
WRENCH ASSEMBLY



H-H

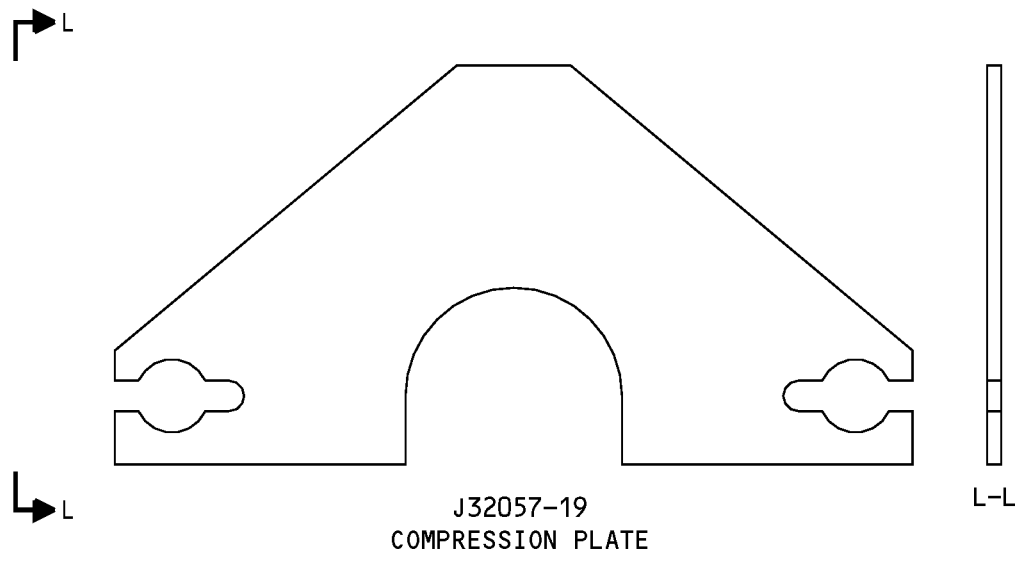
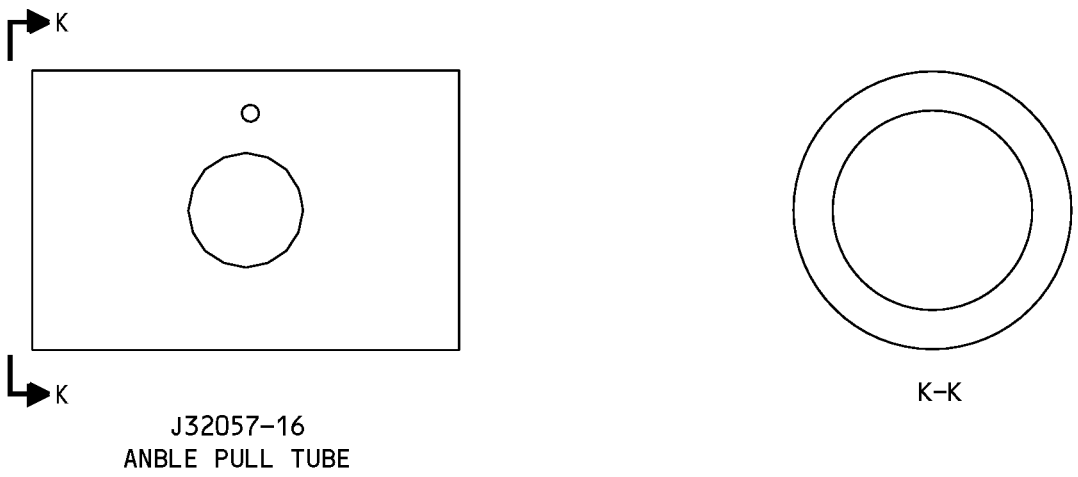
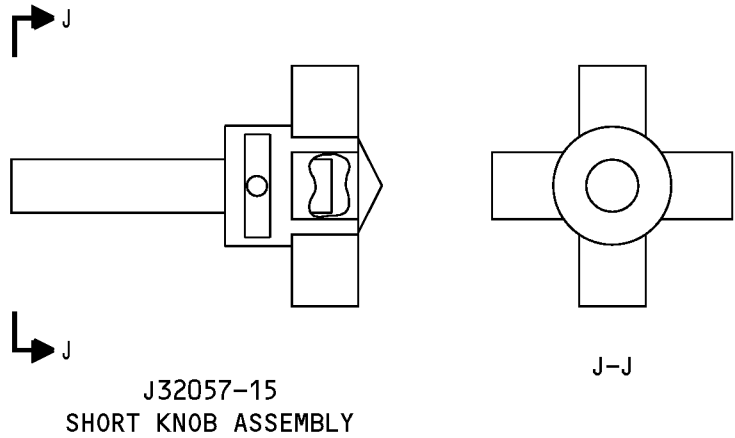


I-I

J32057-13  
1/4 KEY ASSEMBLY SHOWN  
(J32057-12 SIMILAR)  
(J32057-14 SIMILAR)

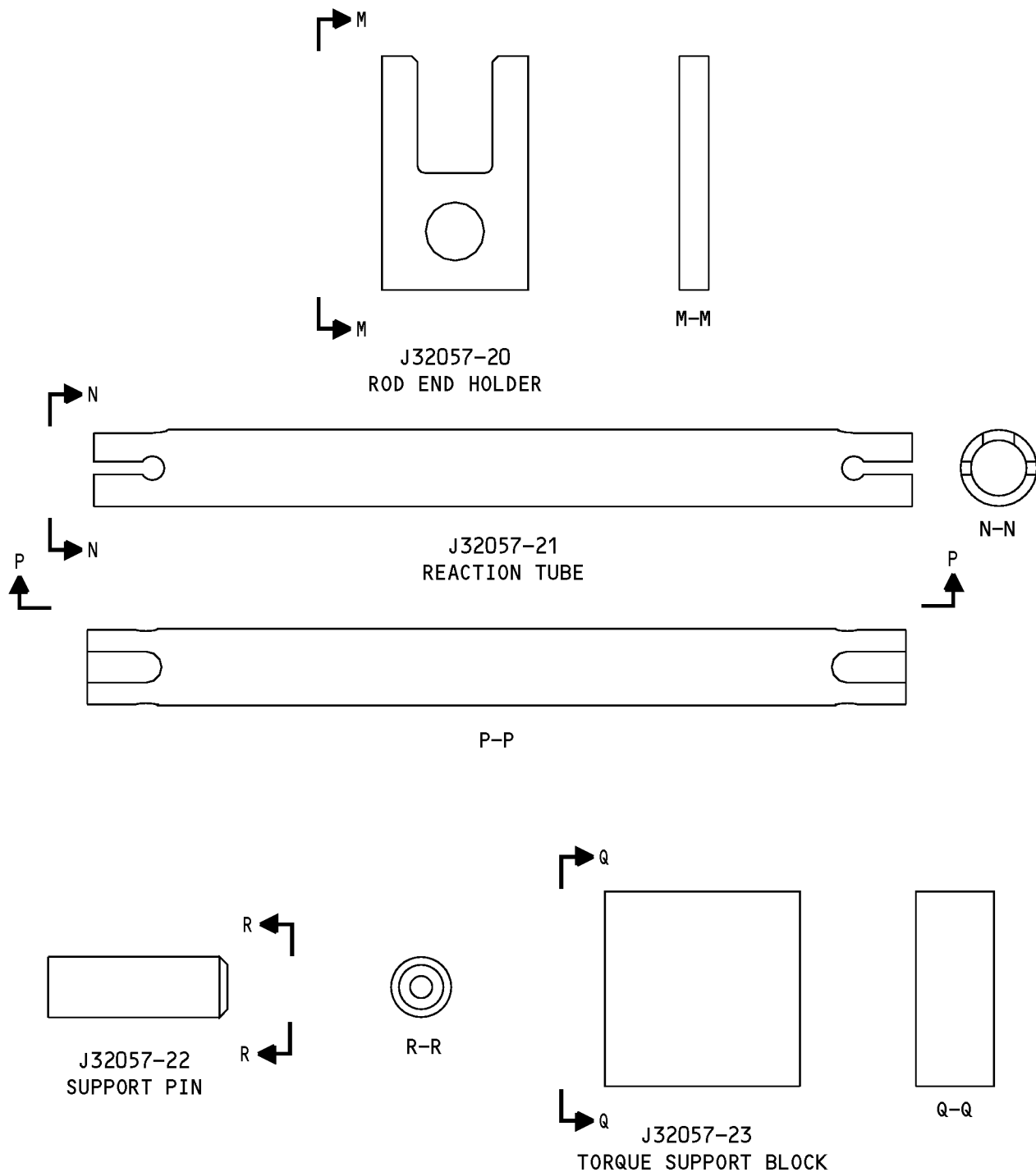
**Landing Gear Actuator Assembly Fixture Equipment**  
Figure 1 (Sheet 7 of 13)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



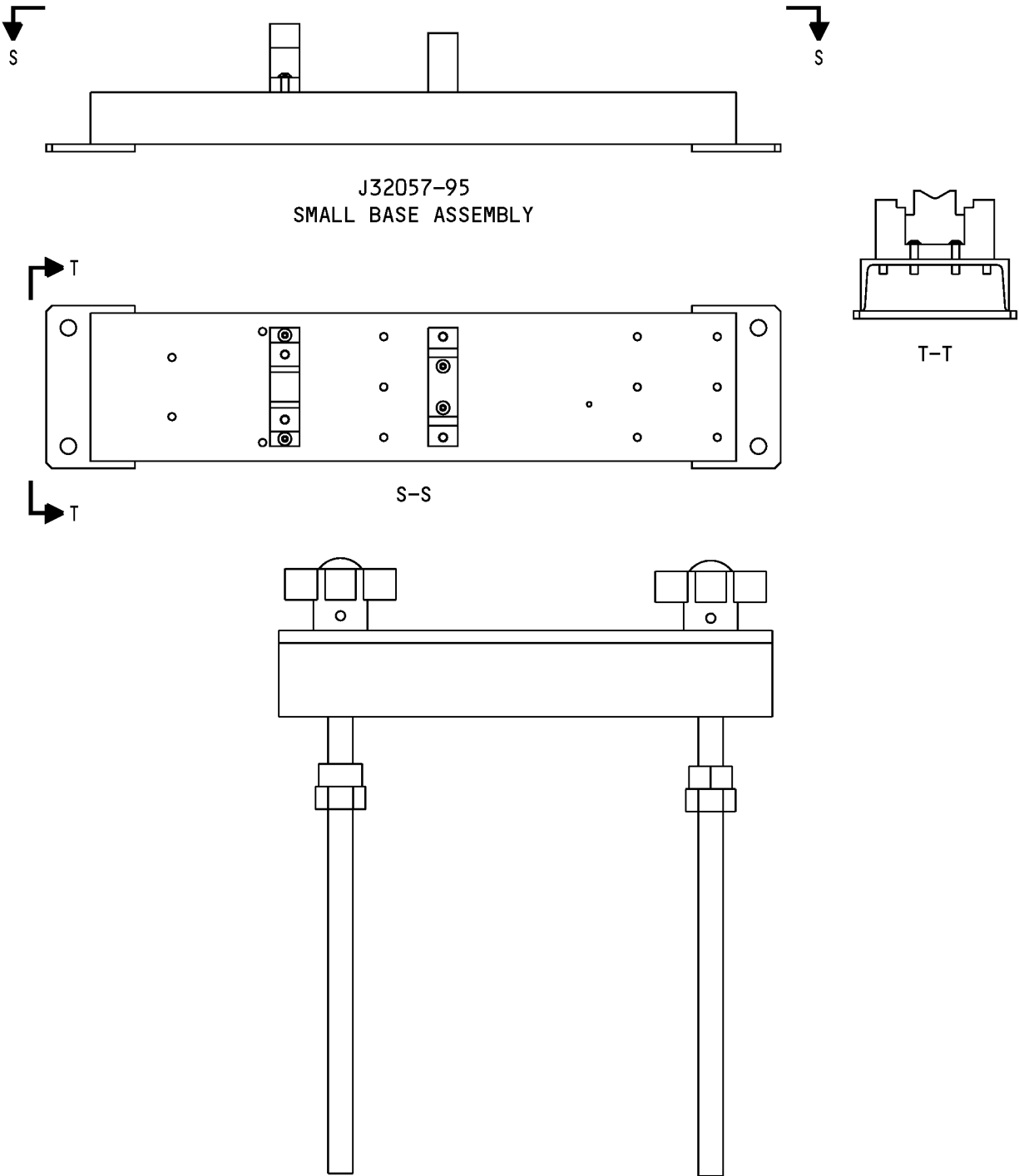
**Landing Gear Actuator Assembly Fixture Equipment  
Figure 1 (Sheet 8 of 13)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



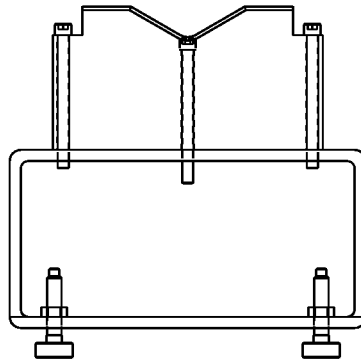
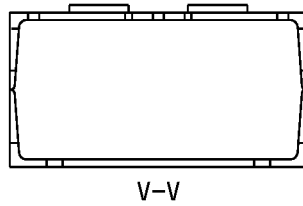
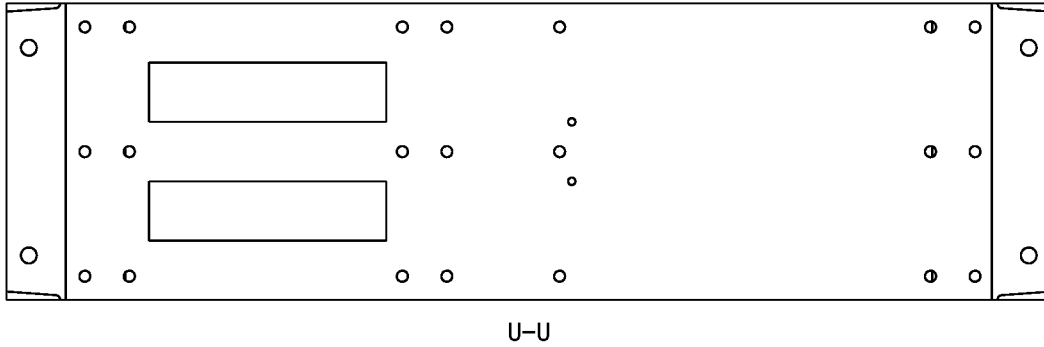
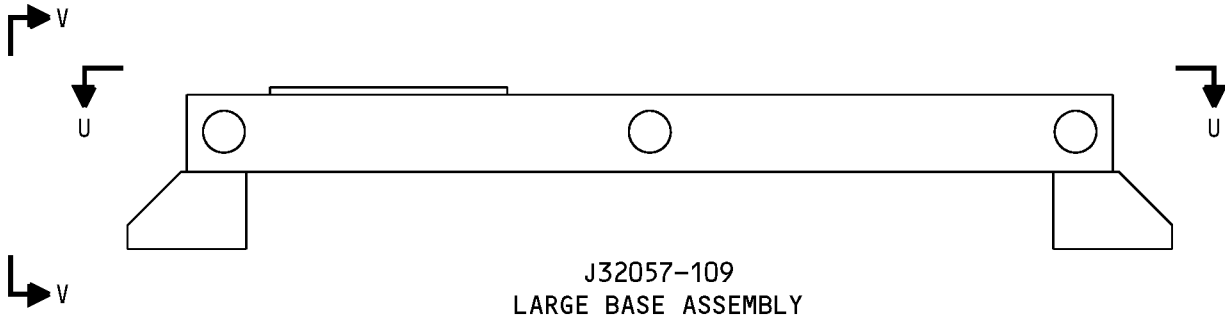
**Landing Gear Actuator Assembly Fixture Equipment  
Figure 1 (Sheet 9 of 13)**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Landing Gear Actuator Assembly Fixture Equipment  
Figure 1 (Sheet 10 of 13)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



J32057-110  
SUPPORT ASSEMBLY

**Landing Gear Actuator Assembly Fixture Equipment**  
**Figure 1 (Sheet 11 of 13)**

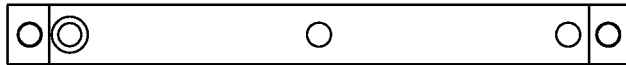
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



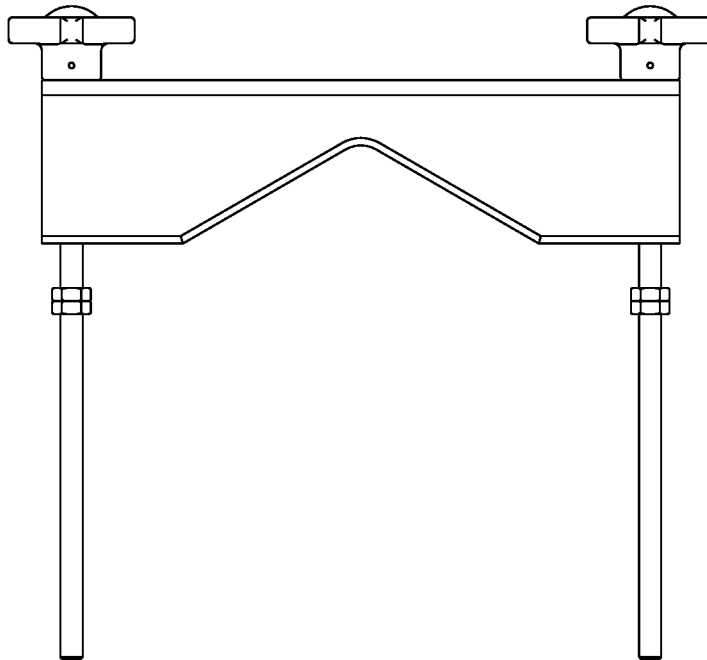
J32057-111  
FLANGED BLOCK CLAMP ASSEMBLY



X-X



Y-Y

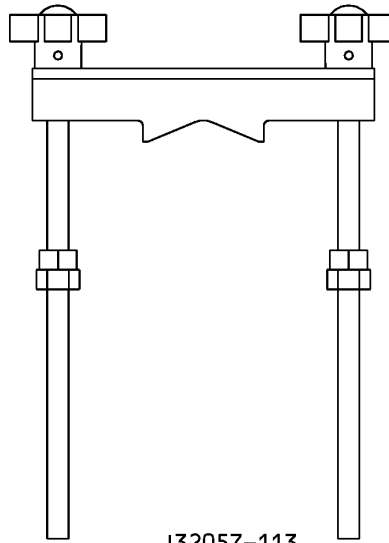


J32057-112  
LARGE TOP CLAMP ASSEMBLY SHOWN  
(J32057-143 SIMILAR)

**Landing Gear Actuator Assembly Fixture Equipment  
Figure 1 (Sheet 12 of 13)**



**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



J32057-113  
SMALL CLAMP ASSEMBLY

**Landing Gear Actuator Assembly Fixture Equipment**  
**Figure 1 (Sheet 13 of 13)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	J32057-115	LONG SCREW	
2	J32057-114	SHORT SCREW	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32122-1**

**NAME:** FIXTURE EQUIPMENT - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

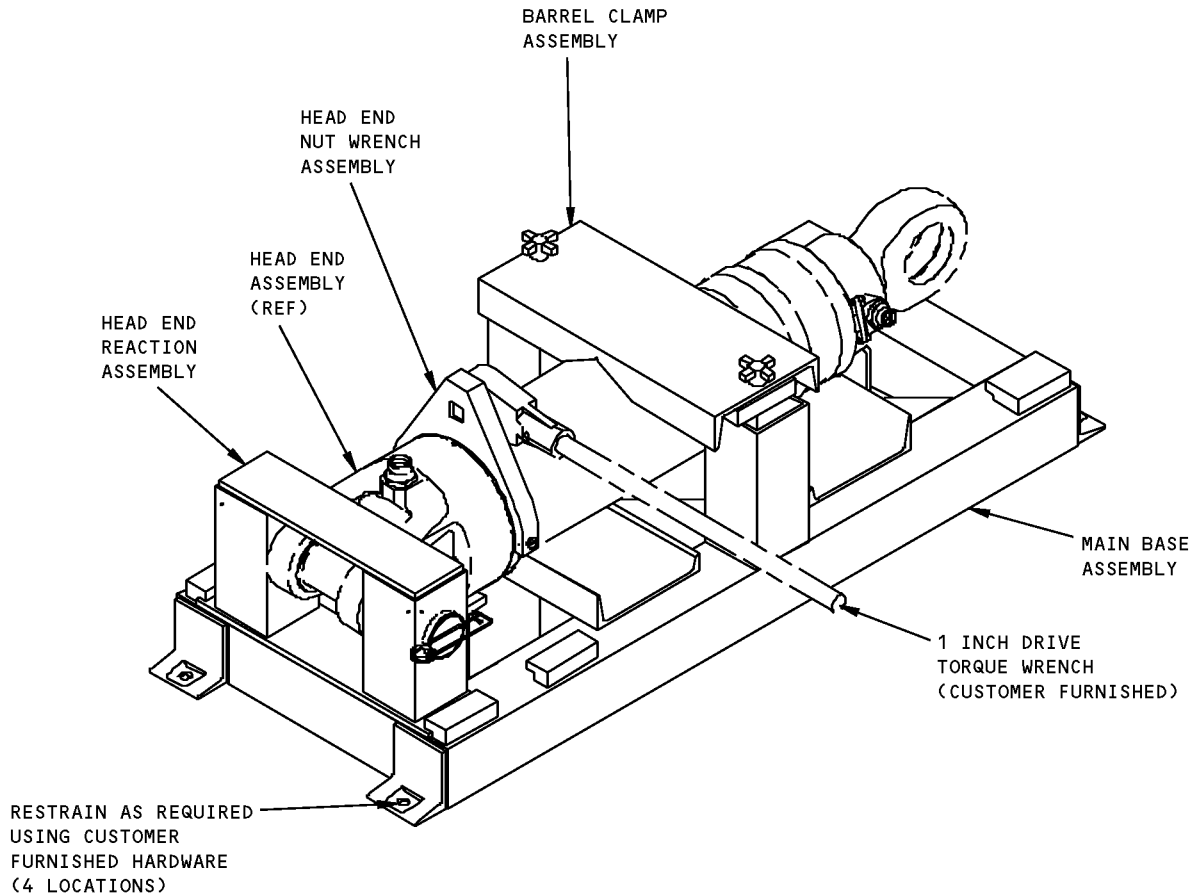
**USAGE & DESCRIPTION:** The A32122-1 fixture equipment is used during component maintenance on 767-400 airplanes. A32122 is used to hold the retract actuator and subassemblies during assembly or disassembly, torquing and/or functional testing. A32122 is used in conjunction with a customer-furnished hydraulic test stand and B20005 velocity/position transducer test equipment to measure and record piston velocity and position during functional tests. Refer to CMM 32-32-64 and the current A32122 drawing for complete usage instructions. A32122-1 consists of:

A32122-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	MAIN BARREL ASSEMBLY	A32122-2
1	BARREL CLAMP ASSEMBLY	A32122-4
1	HEAD END REACTION ASSEMBLY	A32122-5
1	MULTIPLIER REACTION ASSEMBLY	A32122-7
1	ROD END REACTION ASSEMBLY	A32122-8
1	FUNCTIONAL TEST ASSEMBLY	A32122-10
1	ROD END CLAMP ASSEMBLY	A32122-12
1	ROD END PLUG TORQUING ASSEMBLY	A32122-13
1	HEAD END NUT WRENCH ASSEMBLY	A32122-15
1	SNUBBER WRENCH ASSEMBLY	A32122-16
1	PISTON ROD WRENCH	A32122-17
1	PLUG NUT WRENCH	A32122-18
1	TORQUE MULTIPLIER ASSEMBLY	A32122-77
4	ALTERED SHOULDER BOLT	CL-324-KTK-8
1	GUIDE ASSEMBLY	A32122-66
2	ALTERED SHOULDER BOLT	A32122-67
1	STORAGE BOX	

**WEIGHT:** 150 lbs (68 kg)

**DIMENSIONS:** 30 X 36 X 60 inches (762 x 914 x 1524 mm)

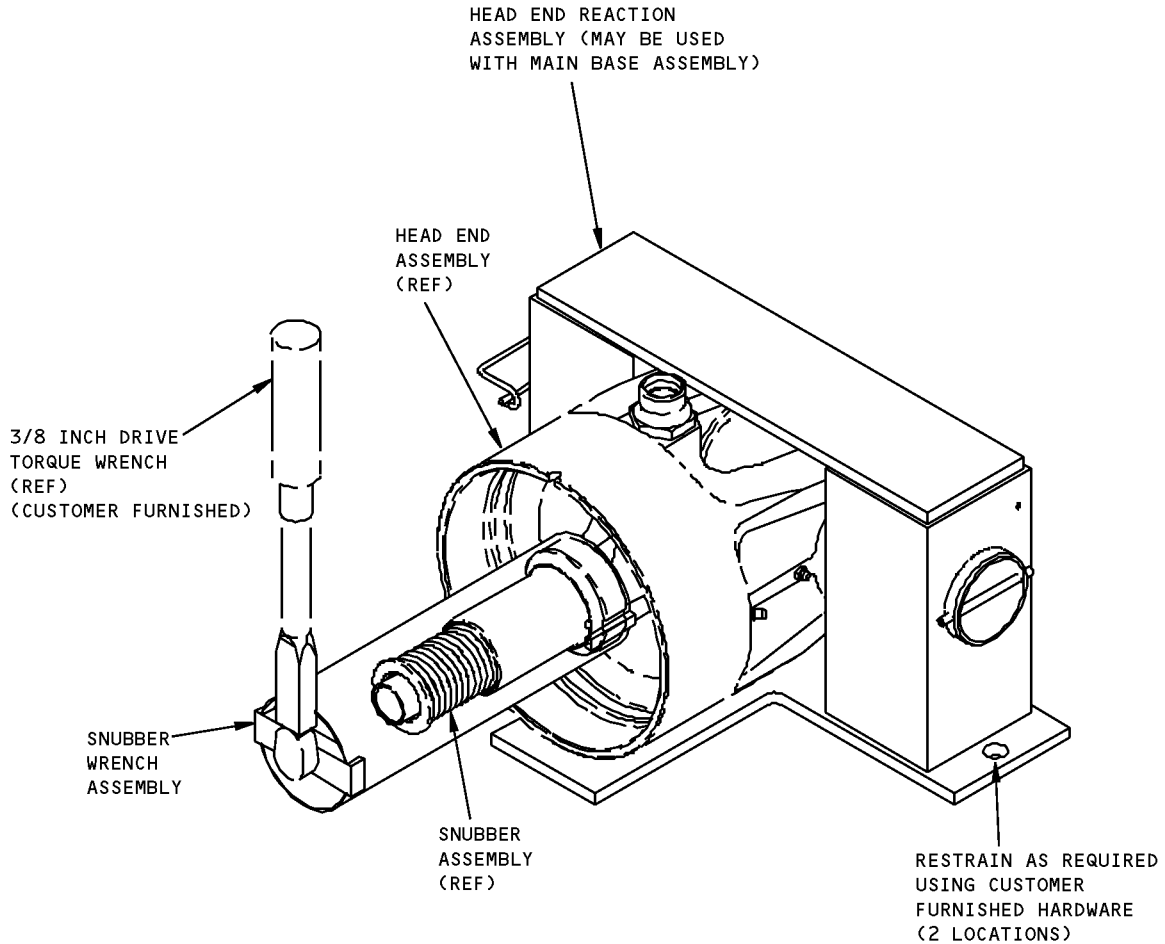
**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



FOR HEAD END NUT REMOVAL/INSTALLATION

**Main Landing Gear Retract Actuator Fixture Equipment  
Figure 1 (Sheet 1 of 6)**

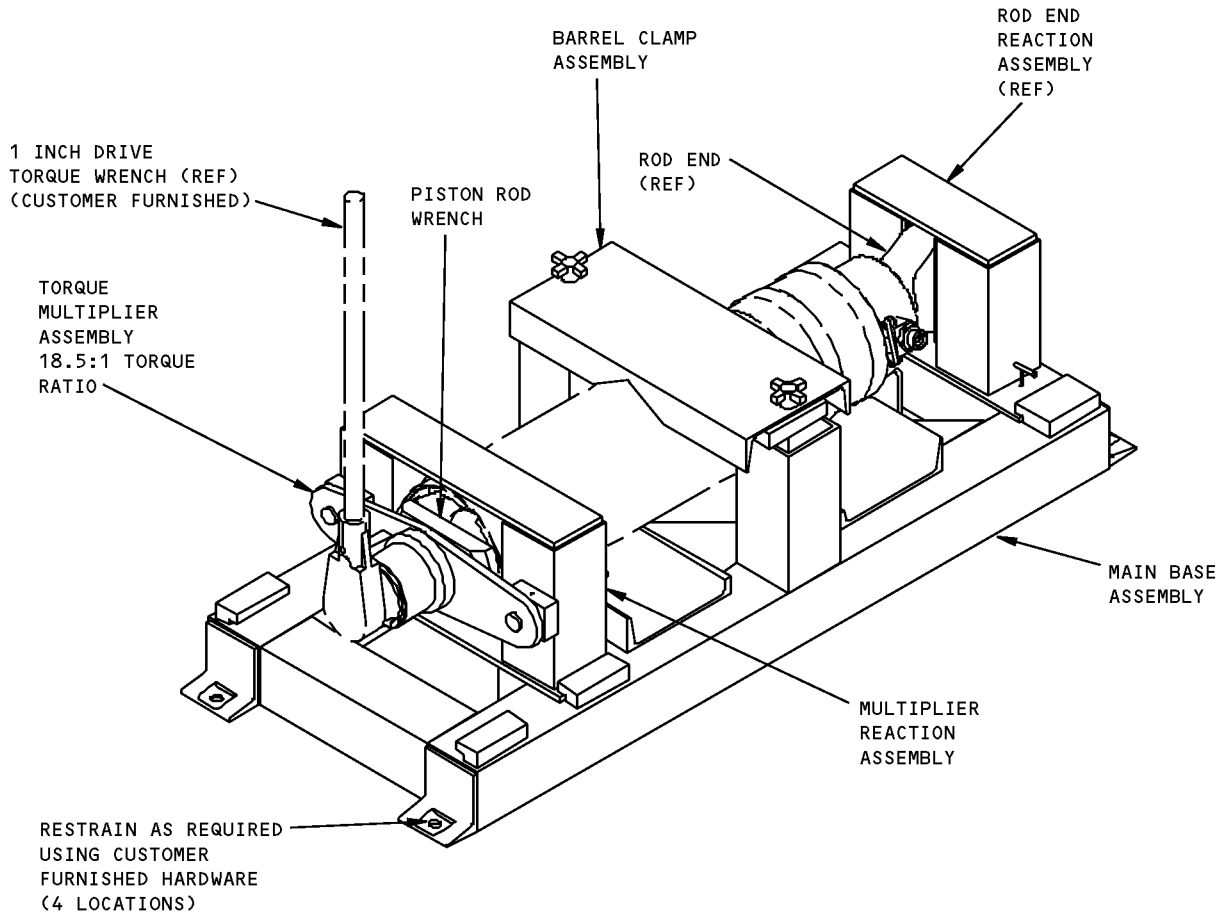
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**FOR SNUBBER ASSEMBLY REMOVAL/INSTALLATION**

**Main Landing Gear Retract Actuator Fixture Equipment  
Figure 1 (Sheet 2 of 6)**

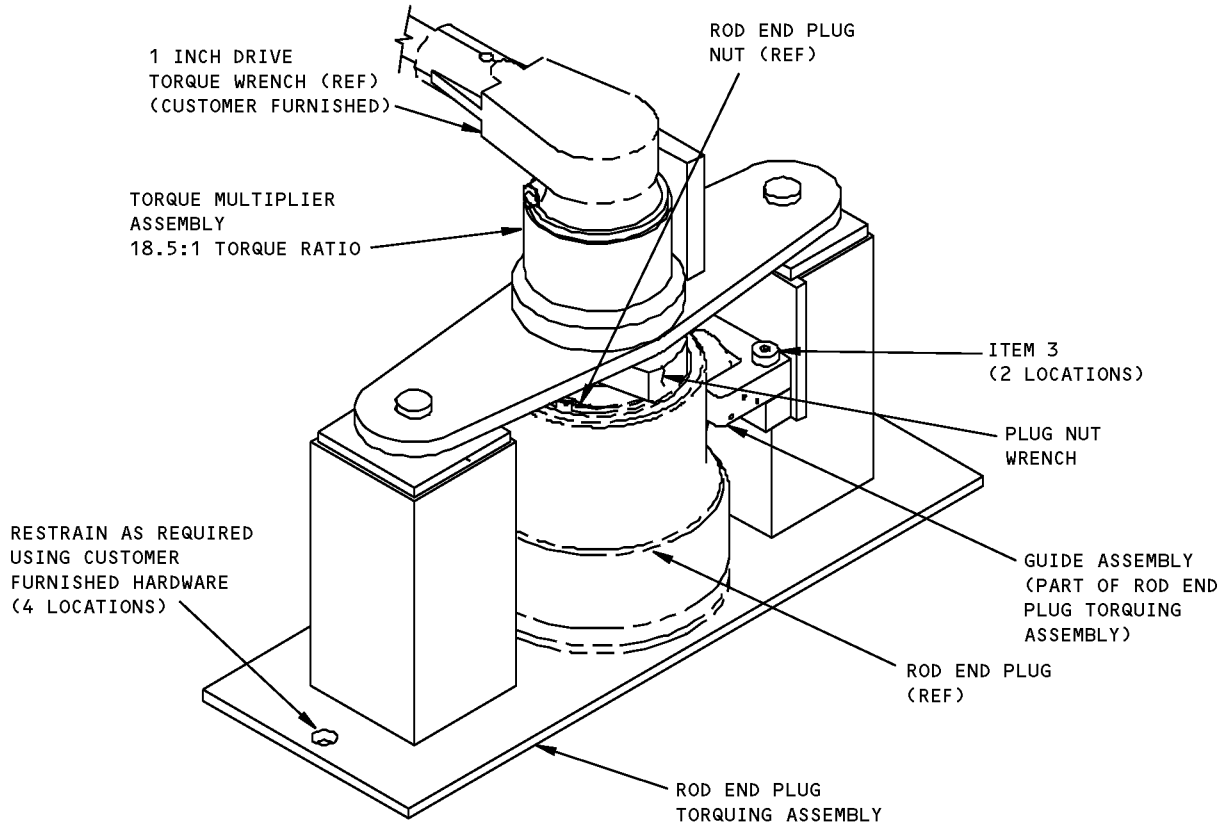
**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



FOR ROD END REMOVAL/INSTALLATION

**Main Landing Gear Retract Actuator Fixture Equipment  
Figure 1 (Sheet 3 of 6)**

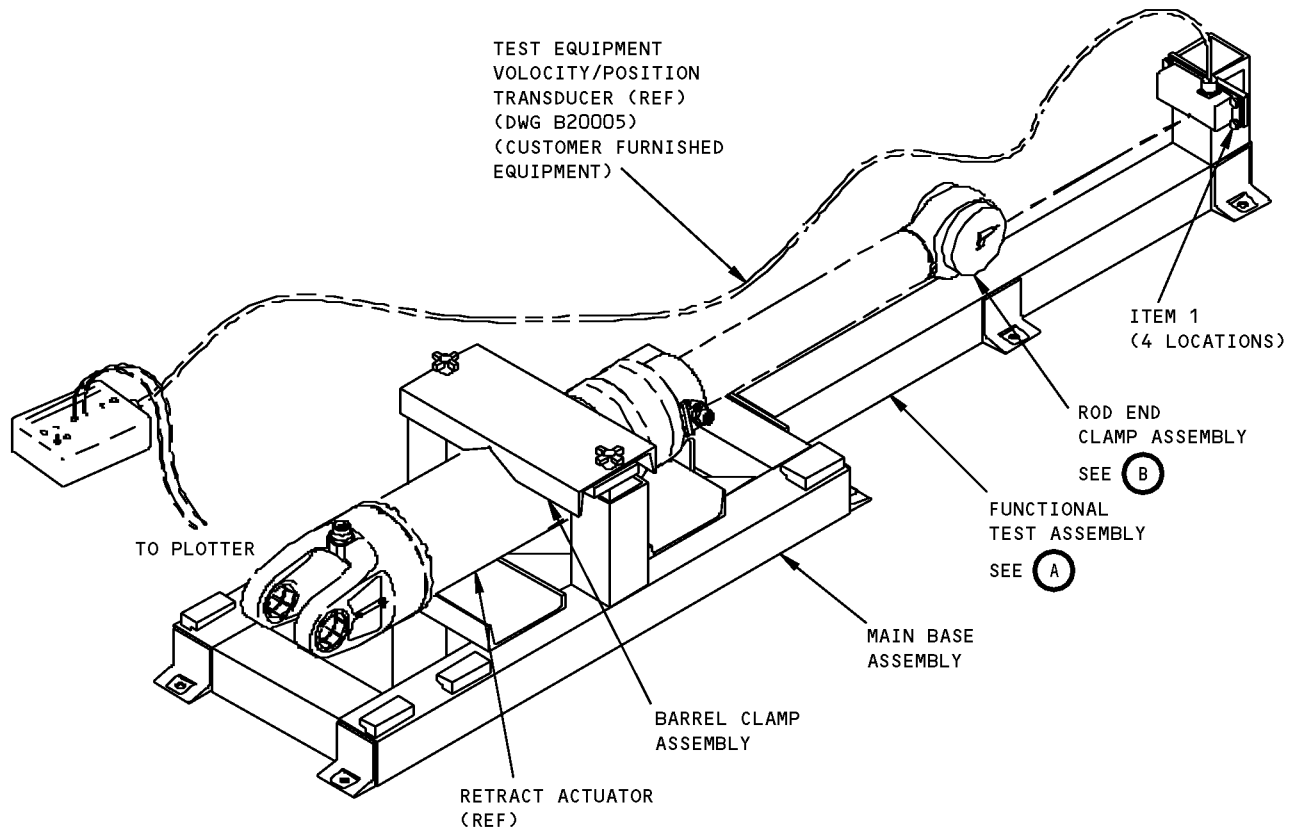
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**FOR ROD END PLUG NUT REMOVAL/INSTALLATION**

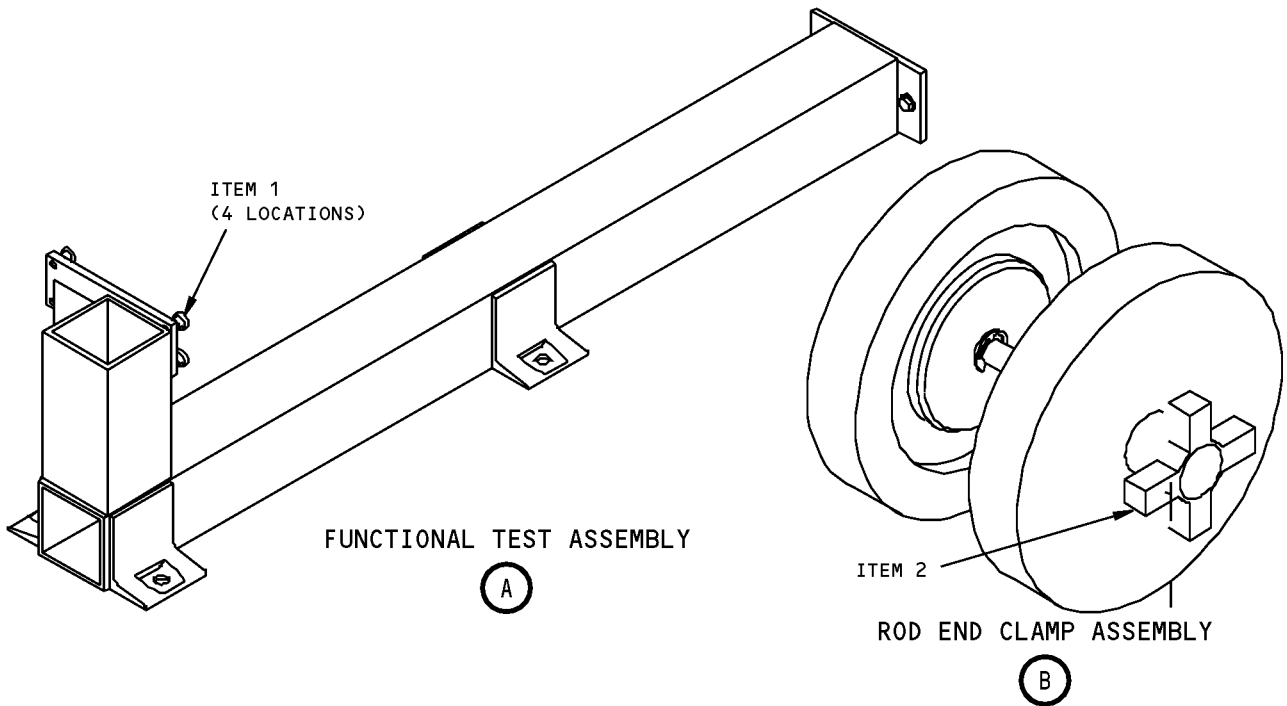
**Main Landing Gear Retract Actuator Fixture Equipment  
Figure 1 (Sheet 4 of 6)**

**767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



FOR FUNCTIONAL TEST

**Main Landing Gear Retract Actuator Fixture Equipment  
Figure 1 (Sheet 5 of 6)**



**Main Landing Gear Retract Actuator Fixture Equipment  
Figure 1 (Sheet 6 of 6)**





767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	CL-324-KTK-8	KNURLED KNOB	V99862
2	CL-30-HK-4A	HAND KNOB	V99862
3	A32122-67	ALTERED SHOULDER SCREW	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32016-17**

**NAME:** PIN PULLER - BRAKE ROD, MAIN LANDING GEAR

**AIRPLANE MAINTENANCE:** YES

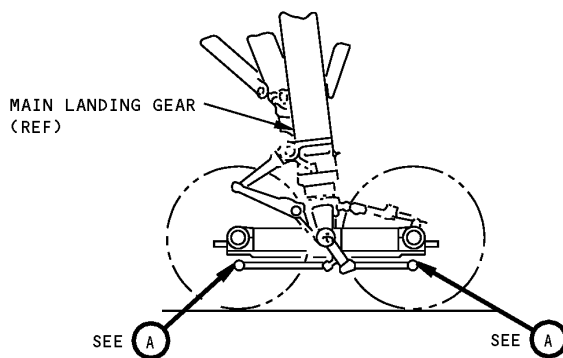
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32016-17 pin puller is used on 767-200 and -300 airplanes. A32016 is used to remove the brake rod pins of the main landing gear assembly. Refer to AMM 32-11-20, CMM 32-11-19 and CMM 32-11-20 for complete usage instructions. A32016-17 consists of an A32016-18 puller assembly contained in a storage box.

**WEIGHT:** 15 lbs (7 kg)

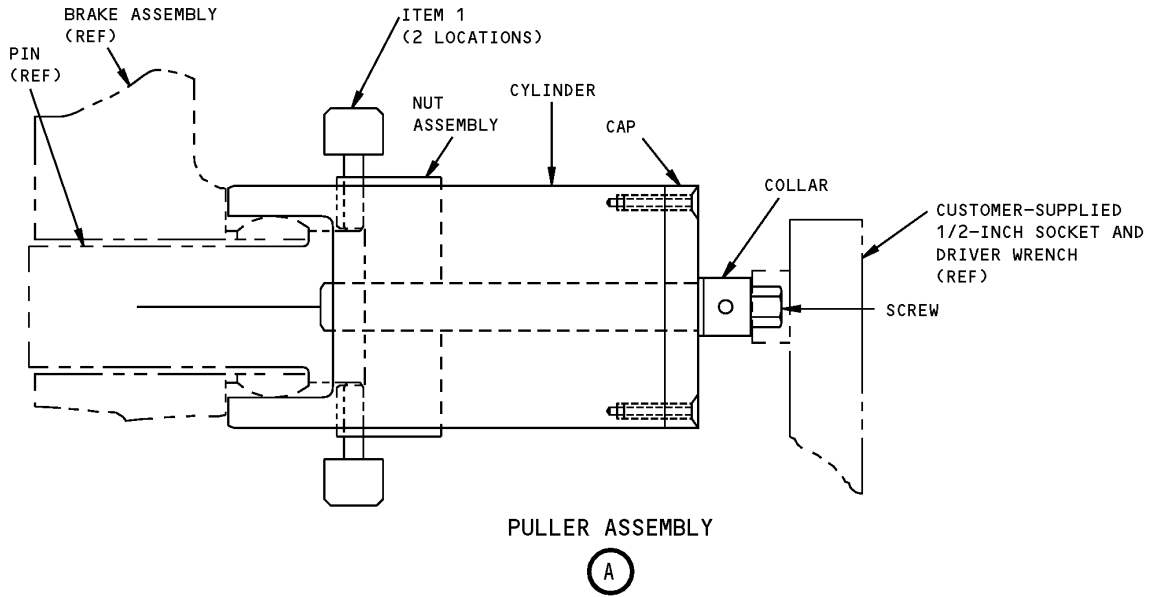
**DIMENSIONS:** 10 x 10 x 14 inches (254 x 254 x 356 mm)

**NOTE:** A32016-17 supersedes A32016-13.



**Main Landing Gear Brake Rod Pin Puller  
Figure 1 (Sheet 1 of 2)**

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Main Landing Gear Brake Rod Pin Puller  
Figure 1 (Sheet 2 of 2)

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32016-6	SCREW	



767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32025-1**

**NAME:** WRENCH ADAPTER - WHEEL RETAINING AXLE NUT, NOSE LANDING GEAR

**AIRPLANE MAINTENANCE:** YES

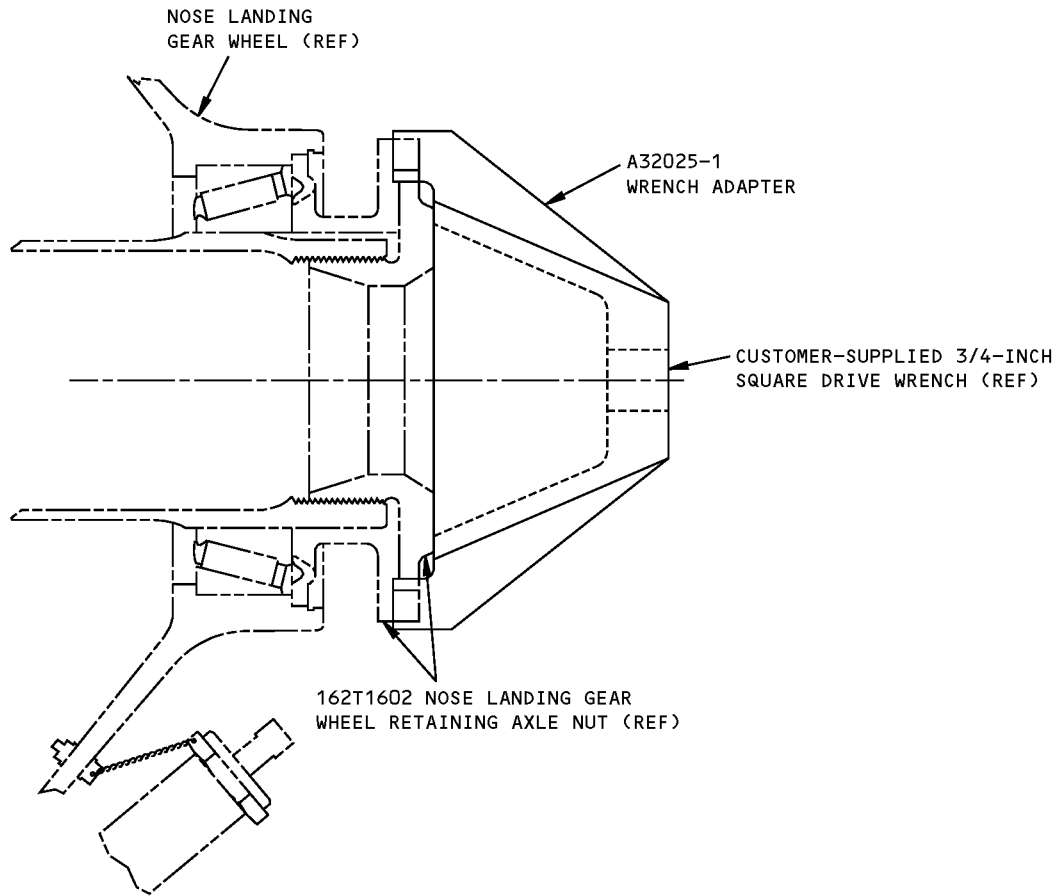
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32025-1 wrench adapter is used on all 767 airplanes. A32025 is used for removal/installation of the 162T1602 nose landing gear axle nut. A32025 is a conically contoured wrench which nests over and locates onto the axle nut. A customer-furnished 3/4-inch square drive socket wrench provides torque for removal/installation of the nut. Refer to AMM 32-45-02 and CMM 32-21-21 for complete usage instructions. A32025-1 consists of either an A32025-2 casting (either cast steel or cast bronze) or an A32025-3 weld assembly (welded steel).

**WEIGHT:** 6 lbs (2.7 kg)

**DIMENSIONS:** 4 x 5 x 7 inches (102 x 127 x 178 mm)

**NOTE:** A32101 replaces A32025 for future procurement.



**Nose Landing Gear, Wheel Retaining Axle Nut, Wrench Adapter  
Figure 1**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32001-1**

**NAME:** BRAKE DISCONNECT ASSEMBLY - FLIGHT DISPATCH

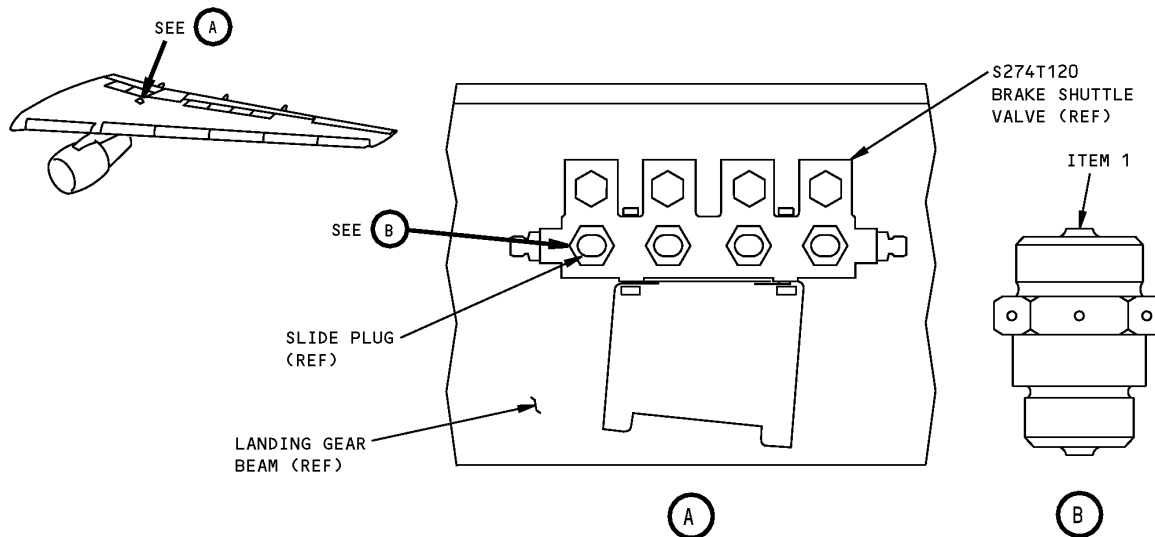
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32001-1 brake disconnect may be used on 767-200 and -200ER airplanes that are equipped with 274T120-4, -6 and -8 anti-skid shuttle valves. The A32080 brake disconnect replaces A32001 and is preferred for use on all 767 airplanes. A32001 is used, per document D6-30T002 (767 Dispatch Deviation Procedures Guide) to seal an inoperative hydraulic brake (only one of the eight brakes installed). The end cover and slide plug of the brake shuttle valve are removed and 2-7561-1 disconnect is inserted, allowing airplane dispatch. A32001-1 consists of a 2-7461-1 disconnect contained in a storage bag.

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

**NOTE:** A32080 replaces A32001 for future procurement.



**Flight Dispatch Brake Disconnect Assembly  
Figure 1**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	2-7461-1	DISCONNECT	V97415



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32060-1**

**NAME:** TEST FIXTURE - ACTUATOR, WHEEL BRAKE

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** A32060-1 test fixture is used on 767-200 and -300 airplanes. A32060 is used to pressure test the 274T4570 wheel brake actuator assembly. Refer to CMM 32-41-25 for complete usage instructions. A32060-1 consists of:

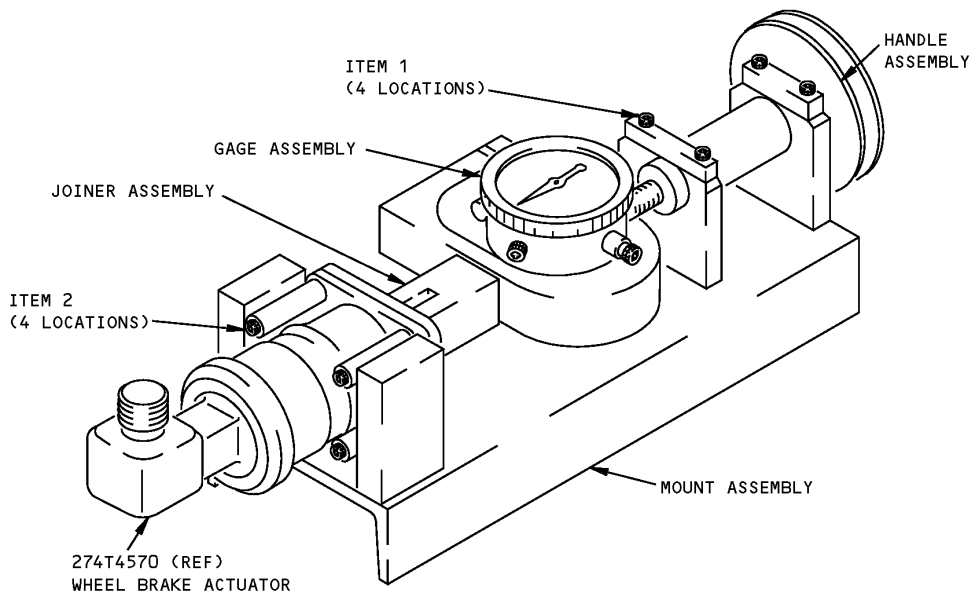
A32060-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	MOUNT ASSEMBLY	A32060-2
1	HANDLE ASSEMBLY	A32060-9
1	JOINER ASSEMBLY	A32060-12
1	GAUGE ASSEMBLY	A32060-15
	ASSEMBLY HARDWARE	VARIOUS
1	STORAGE BOX	

**WEIGHT:** 16 lbs (7 kg)

**DIMENSIONS:** 5 x 10 x 16 inches (127 x 254 x 406 mm)



ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Wheel Brake Actuator Test Fixture  
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS16997-36	SOCKET HEAD CAP SCREW	
2	MS16997-63	SOCKET HEAD CAP SCREW	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32069-1, -7**

**NAME:** WRENCH ADAPTER - RETAINER NUT, ANTI-SKID TRANSDUCER

**AIRPLANE MAINTENANCE:** YES

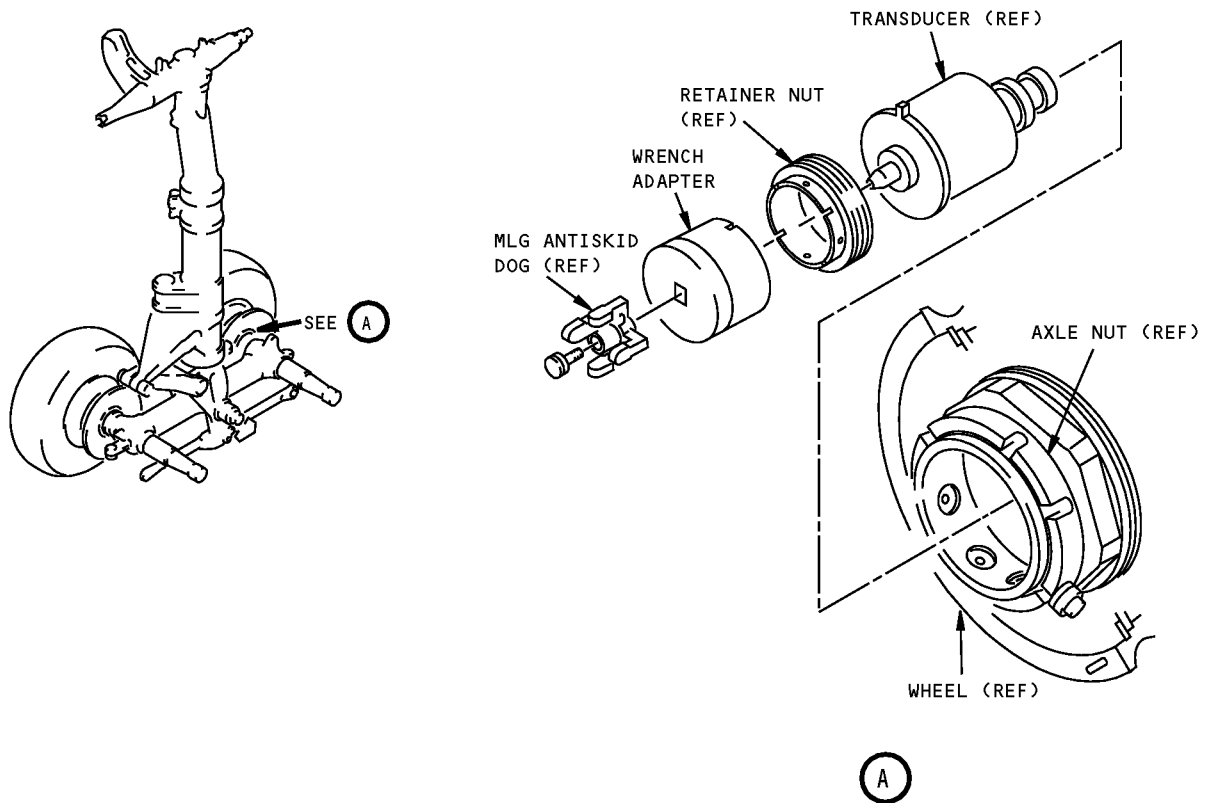
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32069-1 wrench adapter may be used on all 767 airplanes that are not equipped with the tire pressure indicating systems (TPIS). The A32069-7 wrench adapter is used on all 767 airplanes and must be used on 767 airplanes equipped TPIS. The A32069-7 wrench adapter is preferred for future procurement. The A32069 is used with a customer-furnished 1/2-inch square drive torque wrench, to remove or install the anti-skid transducer retainer nut. Refer to AMM 32-42-06, CMM 32-11-19 and CMM 32-11-20 for complete usage instructions. The A32069-1 consists of an A32069-2 wrench adapter assembly contained in a storage box. The A32069-7 consists of an A32069-8 wrench adapter assembly contained in a storage box.

**WEIGHT:** 2 lbs (0.9 kg)

**DIMENSIONS:** 3 x 3 x 3 inches (76 x 76 x 76 mm)

**NOTE:** A32069-7 replaces A32069-1 for future procurement.



**Anti-Skid Transducer Retainer Nut Wrench Adapter  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32075-1, -9, -10**

**NAME:** ADAPTER - ANTI-SKID TRANSDUCER SPIN-UP

**AIRPLANE MAINTENANCE:** YES

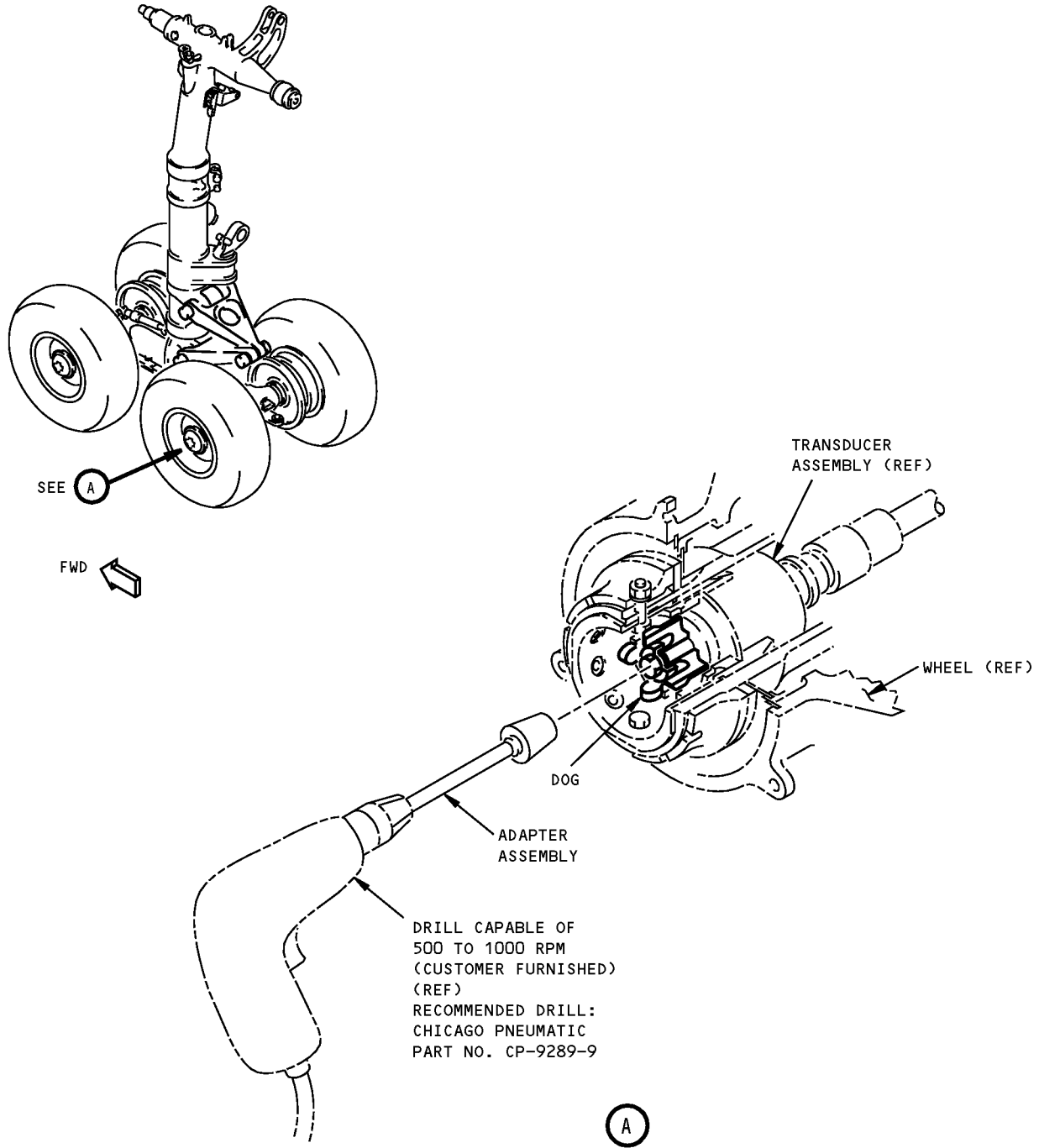
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32075-1, -9 or -10 is used on all 767 airplanes. A32075 is used with a customer-furnished drill to spin the wheel speed transducer during transducer circuit test of the anti-skid system. Refer to AMM 32-42-00 and AMM 32-42-06 for complete usage instructions. A32075-1 consists of an A32075-3 adapter assembly contained in a storage box. A32075-9 consists of an A32075-11 adapter assembly contained in a storage box. A32075-10 consists of an A32075-12 adapter assembly contained in a storage box. The A32075-9 and -10 are similar to the A32075-1 and were added to increase airplane model applicability.

**WEIGHT:** 1 lb (0.5 kg)

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

**NOTE:** The A32075-10 replaces the A32075-1 and -9 for future procurement.



**Anti-Skid Transducer Spin-Up Adapter  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32100-1**

**NAME:** INSTALLATION EQUIPMENT - BRAKE SLEEVE, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

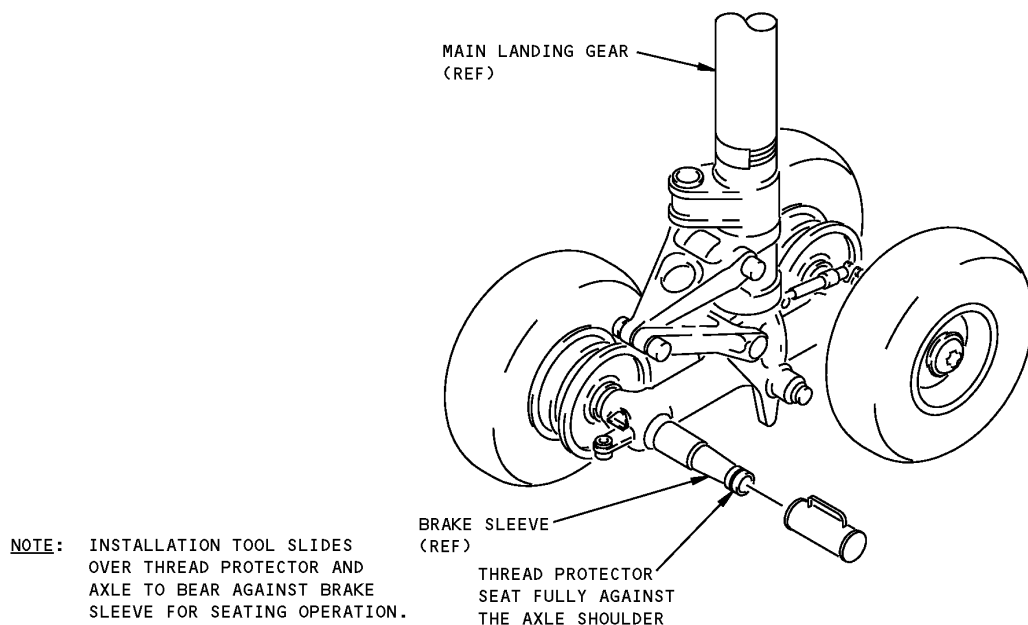
**USAGE & DESCRIPTION:** A32100-1 installation equipment is used on 767-200 and -300 airplanes. A32100 is used to seat a brake sleeve on each MLG axle. A32100 is impacted at the end cap to drive the adjacent brake sleeve into position. Refer to AMM 32-11-26 for complete usage instructions. A32100-1 consists of:

A32100-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SEATER ASSEMBLY	A32100-2
1	THREAD PROTECTOR	A32100-8
1	STORAGE BOX	

**WEIGHT:** 23 lbs (10 kg)

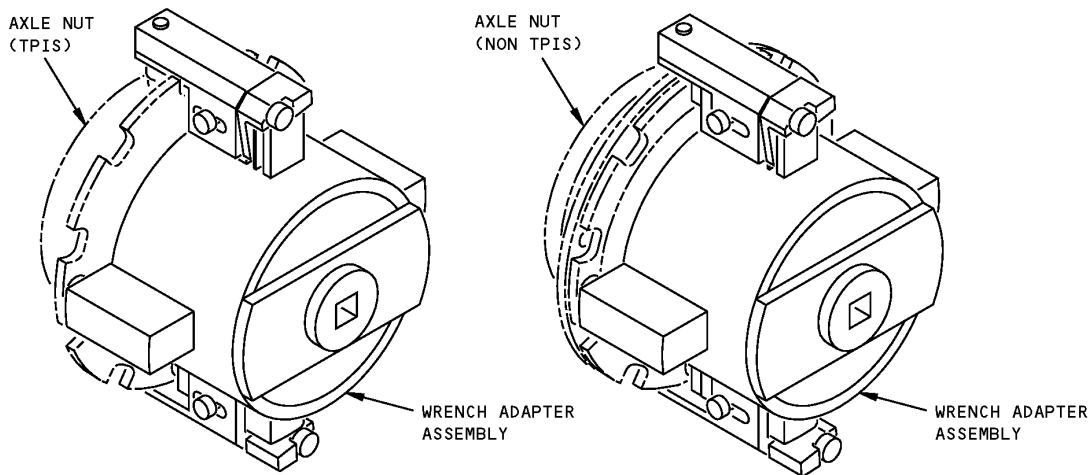
**DIMENSIONS:** 6 x 9 x 18 inches (152 x 229 x 457 mm)

767  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**Main Landing Gear Brake Sleeve Installation Equipment  
Figure 1**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32101-1****NAME:** WRENCH ADAPTER - AXLE NUT, NOSE LANDING GEAR**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** NO**USAGE & DESCRIPTION:** The A32101-1 wrench adapter is used on all 767 airplanes. A32101, together with a customer-furnished 1/2-inch square drive socket wrench, is used for removal or installation of the nose landing gear axle nut. Refer to AMM 32-45-02 for complete usage instructions. A32101-1 consists of an A32101-2 wrench adapter assembly contained in a storage box.**WEIGHT:** 5 lbs (2.3 kg)**DIMENSIONS:** 3 x 7 x 7 inches (76 x 76 x 178 mm)**NOTE:** A32101 replaces A32025 for future procurement.

**Nose Landing Gear Axle Nut Wrench Adapter**  
**Figure 1**





767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: J32001-63, -64**

**NAME:** MEASURING EQUIPMENT - BRAKE PEDAL

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** J32001-63 or -64 are used on all 767 airplanes. J32001-63 or -64 are used to measure the load applied and angle of travel of the airplane's brake pedals during system test of the hydraulic brake system. Refer to AMM 32-41-00 for complete usage instructions.

The difference between the J32001-63 and -64 is due to an obsolete clinometer component of the J32001-63 equipment. The clinometer (part number 02383) was built with an electrical connector that required the use of the J32001-4 cable assembly. The obsolete clinometer was kept as a component to accommodate airline users that had these formerly required components. The J32001-64 incorporates a clinometer (part number 0211 1002-000) that uses a pig-tail system for connection and does not require a separate cable assembly for electrical connection. The superseded J32001-43 (including the 02383 clinometer) can be reworked into the J32001-63 configuration. The superseded J32001-46 (including the 0211 1002-000 clinometer) can be reworked into the J32001-64 configuration.

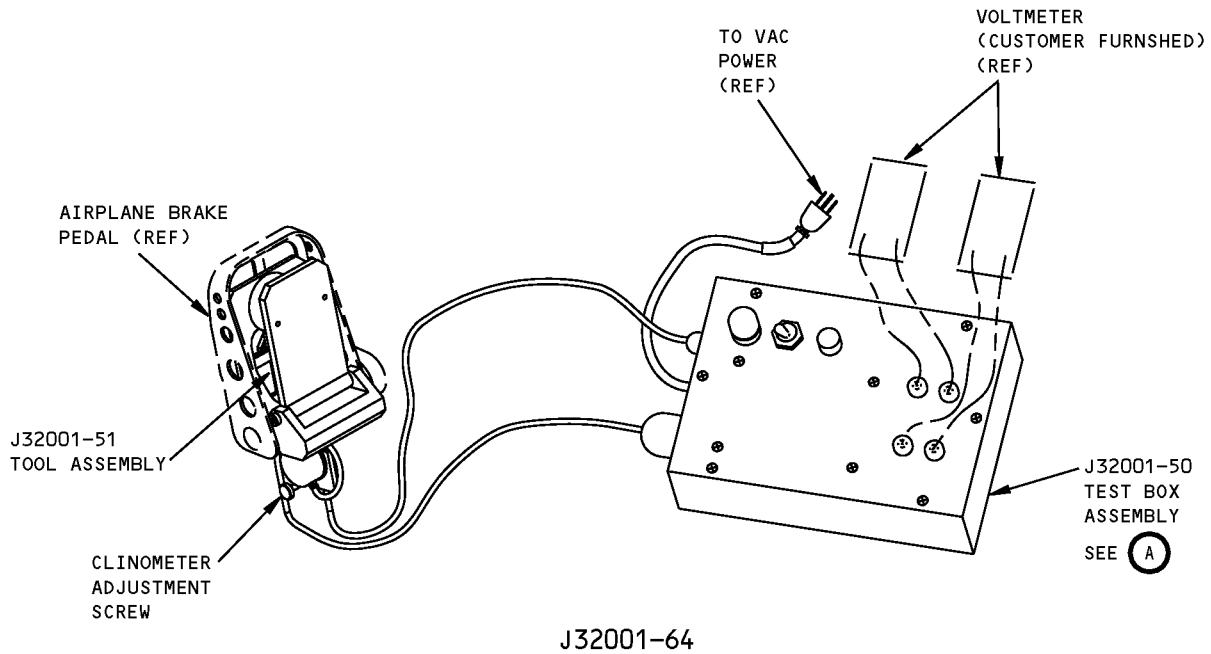
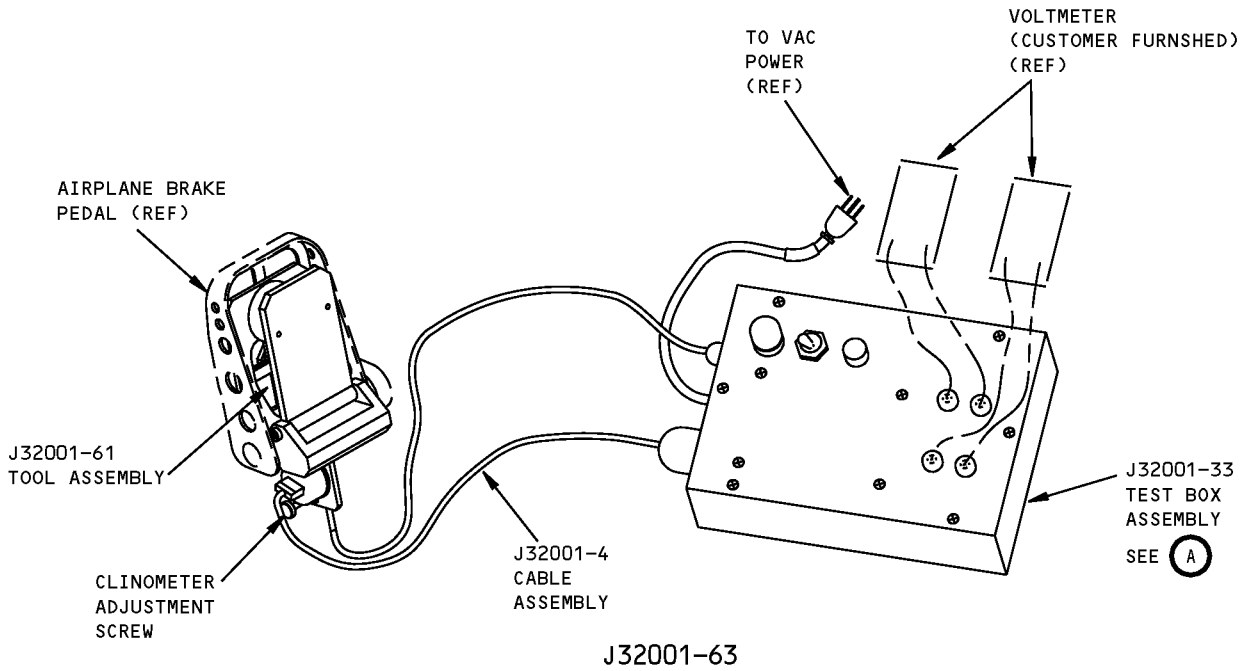
J32001-63 consists of a J32001-61 tool assembly, a J32001-33 test box assembly and a J32001-4 cable assembly, all contained in a storage box. J32001-64 consists of a J32001-51 tool assembly and a J32001-50 test box assembly, both contained in a storage box.

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

**DIMENSIONS:** 7 x 11 x 22 inches (178 x 279 x 559 mm)

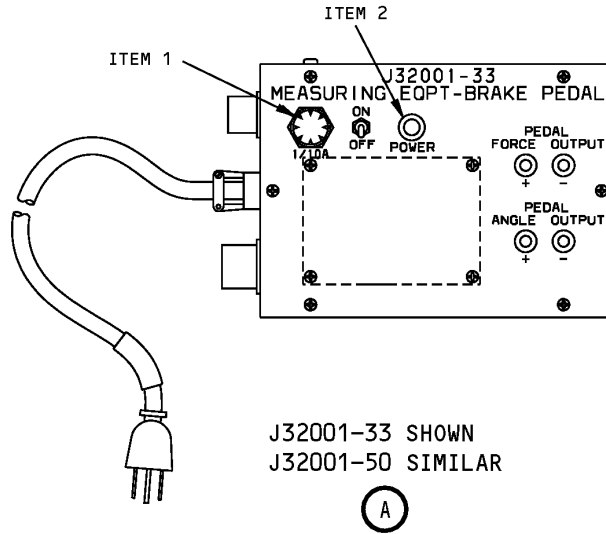
**NOTE:** J32001-63 supersedes J32001-43.  
J32001-64 supersedes J32001-46.  
J32001-64 replaces J32001-63 for future procurement.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Brake Pedal Measuring Equipment**  
**Figure 1 (Sheet 1 of 2)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Brake Pedal Measuring Equipment**  
**Figure 1 (Sheet 2 of 2)**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	313.100	FUSE	V75915
2	507-4538-0931-610	LAMP	V83330



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: J32032-22**

**NAME:** WRENCH EQUIPMENT - WHEEL RETENTION NUT, MAIN LANDING GEAR (MLG)

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

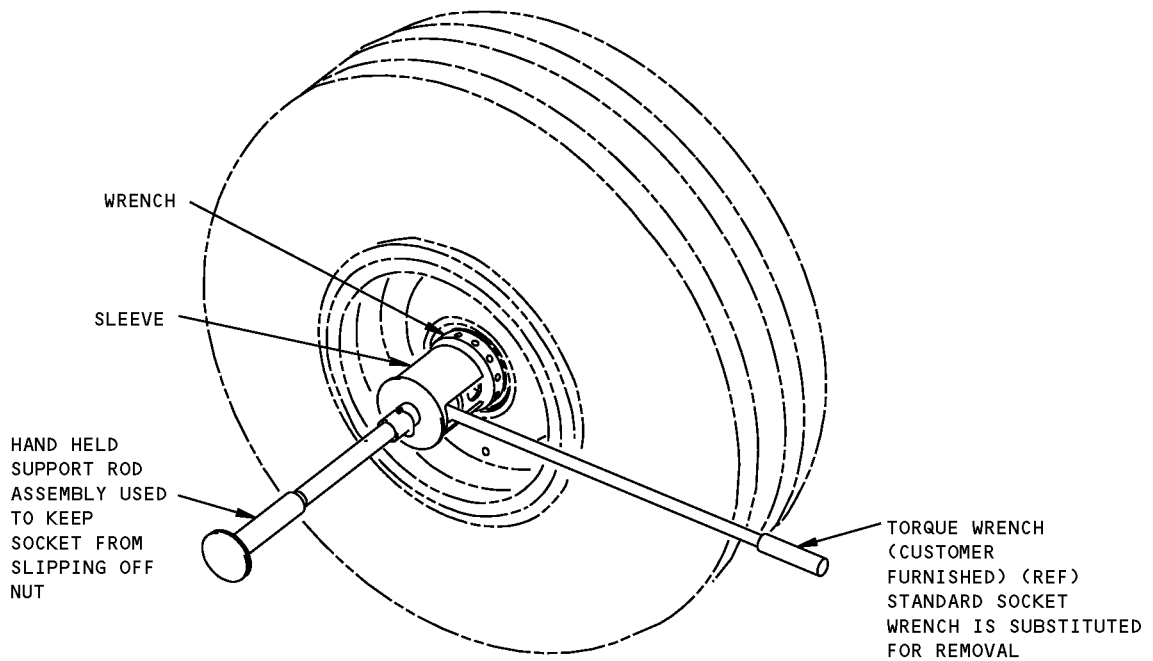
**USAGE & DESCRIPTION:** The J32032-22 wrench equipment is applicable to 767-400 airplanes. J32032 is used to remove and install the main landing gear wheel retention nut. Refer to AMM 32-45-01 for complete usage information. J32032-19 consists of:

J32032-22		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SLEEVE	J32032-3
1	SUPPORT ROD ASSEMBLY	J32032-4
1	WRENCH	J32032-23
1	STORAGE BOX	

**WEIGHT:** 18 lbs (8 kg)

**DIMENSIONS:** 6 x 10 x 26 inches (152 x 254 x 660 mm)

**NOTE:** J32032-22 supersedes J32032-19 and J32032-1.  
J32032 replaces MIT65B01202-1 for future procurement.



**Main Landing Gear Wheel Retention Nut Wrench Equipment  
Figure 1**



767

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: J32012-18**

**NAME:** PULLER EQUIPMENT - BRAKE, MAIN LANDING GEAR

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

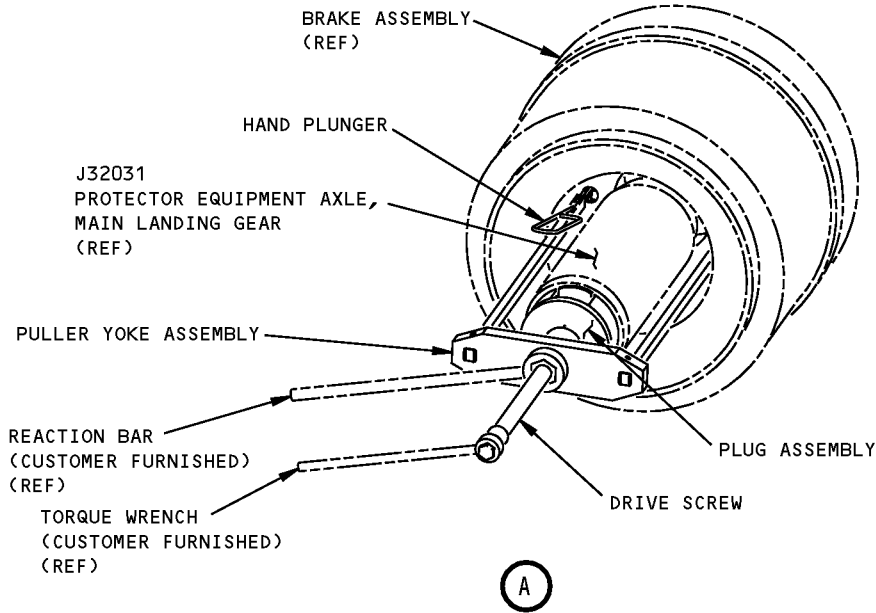
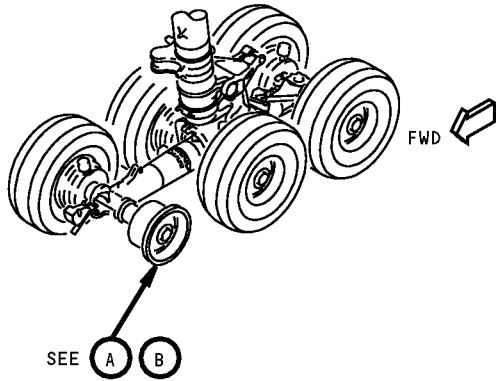
**USAGE & DESCRIPTION:** J32012-18 puller equipment is used on 767-400 airplanes. J32012 is used in conjunction with the J32031 thread and axle protectors to pull the main landing gear brakes. Refer to AMM 32-41-08 for complete usage instructions. J32012-18 consists of:

<b>J32012-18</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	PLUG ASSEMBLY	J32012-19
1	PULLER YOKE ASSEMBLY	J32012-3
1	DRIVE SCREW	J32012-5
1	HAND PLUNGER	J32012-6
1	STORAGE BOX	

**WEIGHT:** 22 lbs (10 kg)

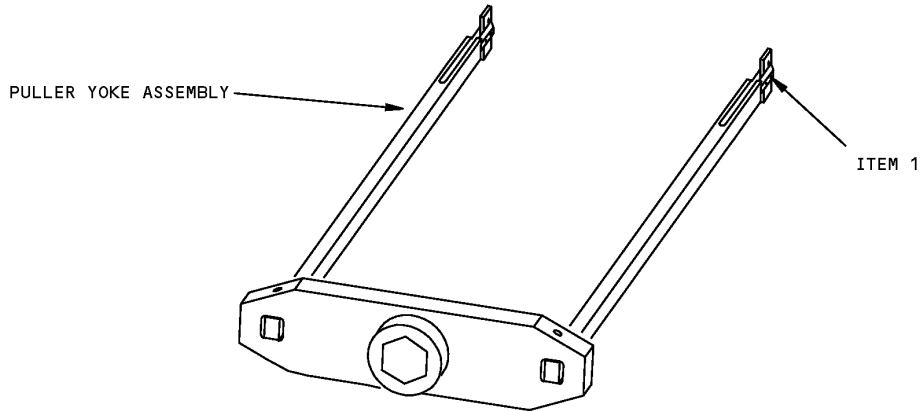
**DIMENSIONS:** 3 x 18 x 27 inches (76 x 457 x 508 mm)

**NOTE:** J32012-18 supersedes J32012-1.



**Main Landing Gear Brake Puller Equipment  
Figure 1 (Sheet 1 of 2)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



B

**Main Landing Gear Brake Puller Equipment**  
**Figure 1 (Sheet 2 of 2)**

<b>REPAIRABLE/REPLACEABLE PARTS</b>			
<b>ITEM NO.</b>	<b>PART NO.</b>	<b>NOMENCLATURE</b>	<b>VENDOR CODE</b>
1	J32012-14	SPRING PIN	





767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: J32031-12**

**NAME:** PROTECTOR EQUIPMENT - AXLE, MAIN LANDING GEAR

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** J32031-12 protector equipment is used on 767-400 airplanes. J32031 is used to protect the landing gear axle during wheel and brake maintenance. J32031 also protects the threads of the axle and the Tire Pressure Indicating System (TPIS) sensor. Refer to AMM 32-41-08, AMM 32-45-01 and CMM 32-11-36 for complete usage instructions. J32031-12 consists of:

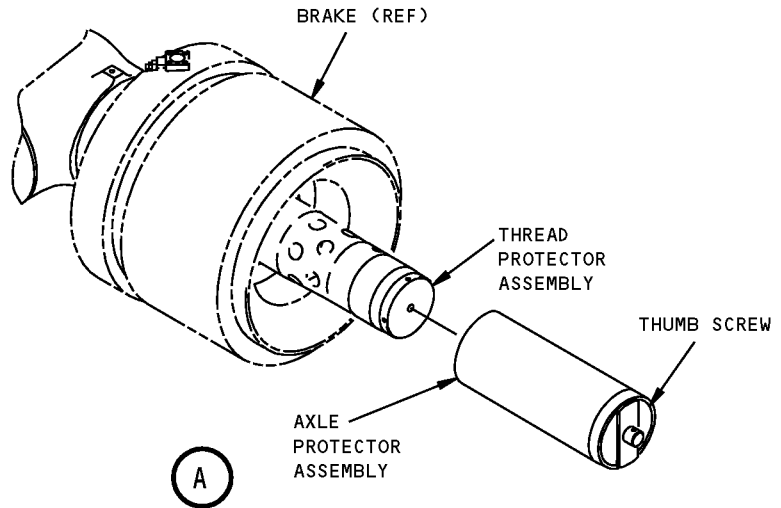
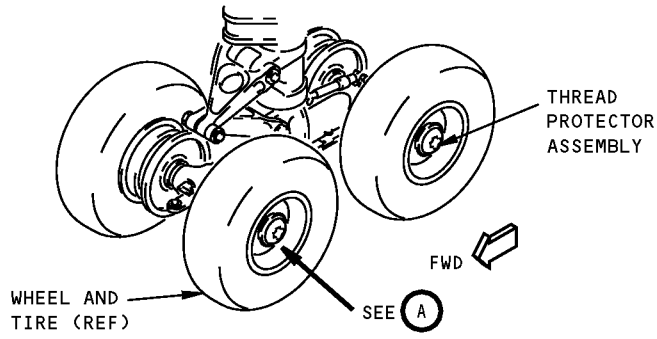
J32031-12		
QUANTITY	NOMENCLATURE	PART NUMBER
1	THREAD PROTECTOR ASSEMBLY	J32031-13
1	AXLE PROTECTOR ASSEMBLY	J32031-3
1	STORAGE BOX	

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

**DIMENSIONS:** 6 x 6 x 17 inches (152 x 152 x 432 mm)

**NOTE:** J32031-12 supersedes J32031-1.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**BRAKE INSTALLATION AND REMOVAL**

**Main Landing Gear Axle Protector Equipment  
Figure 1**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32080-1**

**NAME:** BRAKE DISCONNECT - FLIGHT DISPATCH

**AIRPLANE MAINTENANCE:** YES

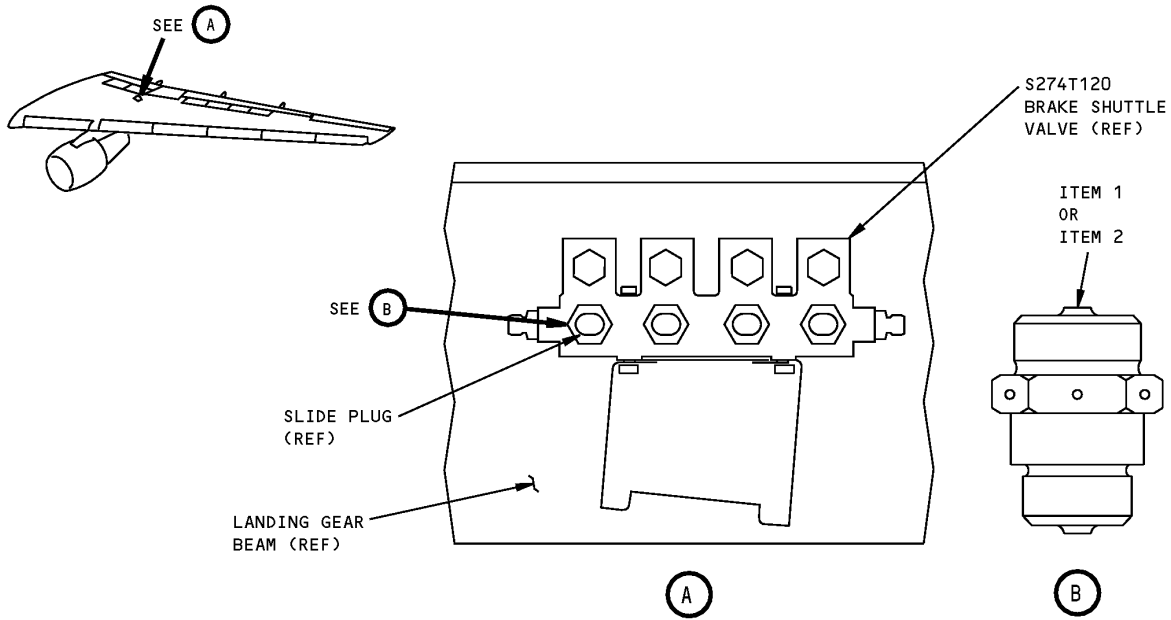
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32080-1 brake disconnect is used on all 767 airplanes. A32080-1 is used, per document D6-30T002 (767 Dispatch Deviation Procedures Guide) to seal an inoperative hydraulic brake (only one of the eight brakes installed). The end cover and slide plug of the brake shuttle valve are removed and the A32080-4 disconnect is inserted, allowing airplane dispatch. A32080-1 consists of an A32080-4 disconnect contained in a storage bag.

**WEIGHT:** 1 lb (0.5 kg)

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

**NOTE:** A32080 replaces A32001 for future procurement.



**Flight Dispatch Brake Disconnect  
Figure 1**



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	A32080-4	DISCONNECT	V97415
2	2-7461-3 (OPTION)	DISCONNECT	V97415



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: F72977-62**

**NAME:** GAGE EQUIPMENT - HYDRAULIC BRAKE SYSTEM PRESSURE CHECKING

**AIRPLANE MAINTENANCE:** YES

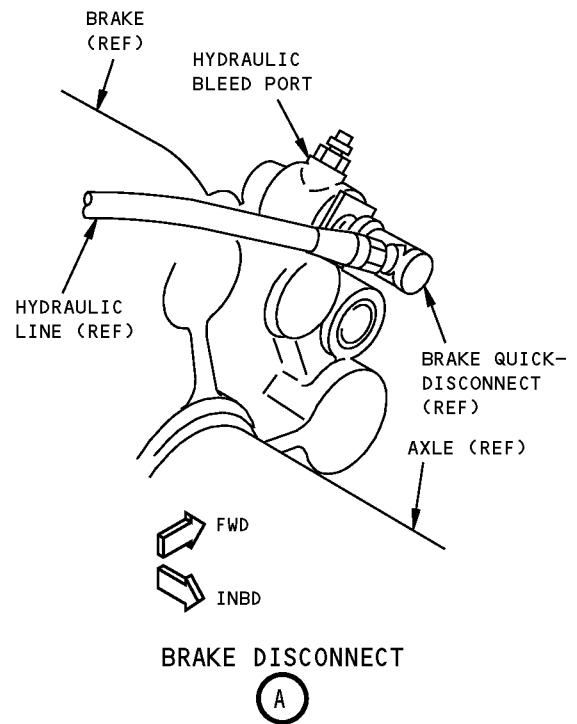
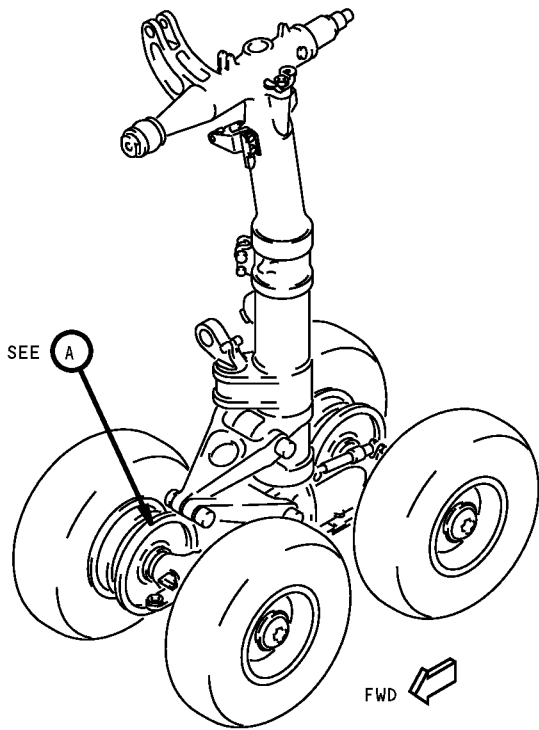
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The F72977-62 gage equipment is used on all 767 airplanes. Two F72977-62 tools are required for use on 767 airplanes. The F72977-62 gage equipment is used to check brake pressure after opening a brake line for any reason or replacing a component of the main landing gear braking system. The gage equipment includes four pressure gages. The pressure gages are four-inches in diameter, 0 to 5000 psi, with 50 psi graduation intervals. The gages are connected to hoses with hydraulic adapters that are placed downstream of each of the airplane's brake de-boost valves. Refer to AMM 32-41-00 and the current F72977 drawing for additional usage instructions. F72977-62 gage equipment consists of four F72977-56 hose assemblies, four F72977-64 adapter assemblies, and a storage box assembly.

**WEIGHT:** 20 lbs (9 kg)

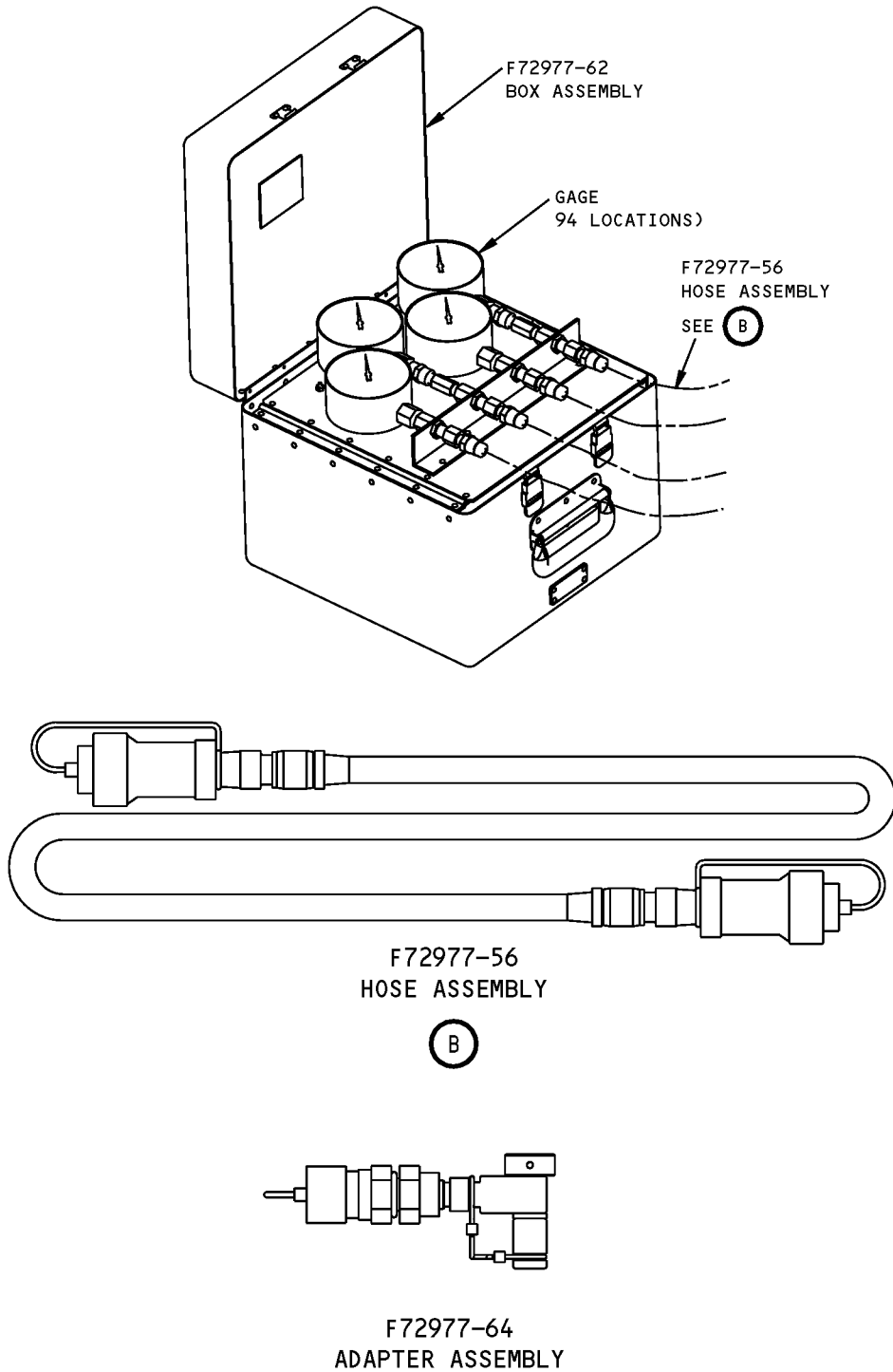
**DIMENSIONS:** 12 x 14 x 14 inches (305 x 356 x 356 mm)

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Hydraulic Brake System Pressure Checking Gage Equipment**  
**Figure 1 (Sheet 1 of 2)**

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

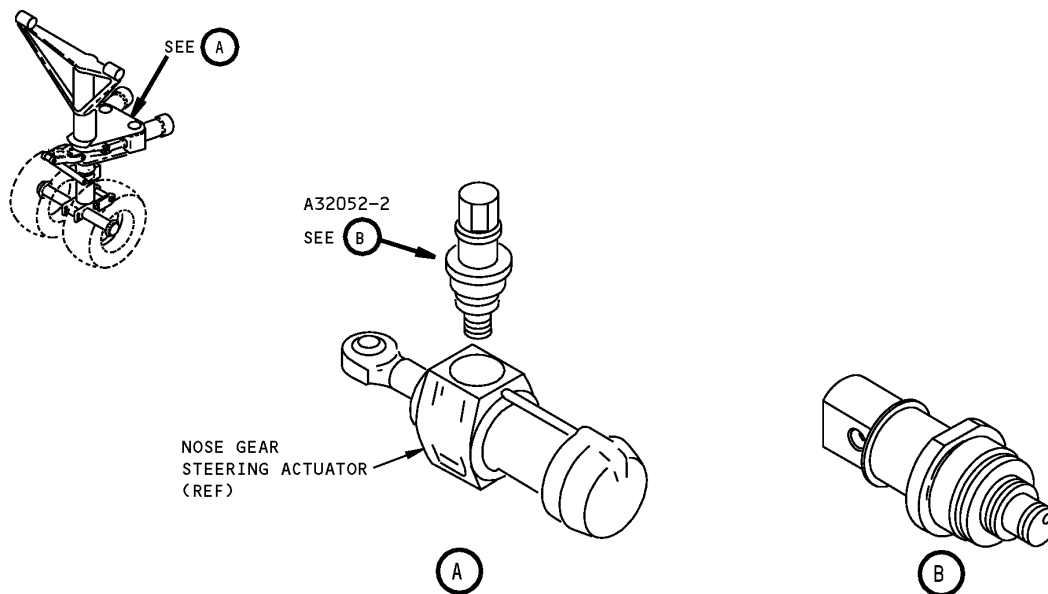


**Hydraulic Brake System Pressure Checking Gage Equipment**  
**Figure 1 (Sheet 2 of 2)**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32052-1****NAME:** TEST FITTING - ACTUATOR, NOSE LANDING GEAR (NLG) STEERING**AIRPLANE MAINTENANCE:** NO**COMPONENT MAINTENANCE:** YES

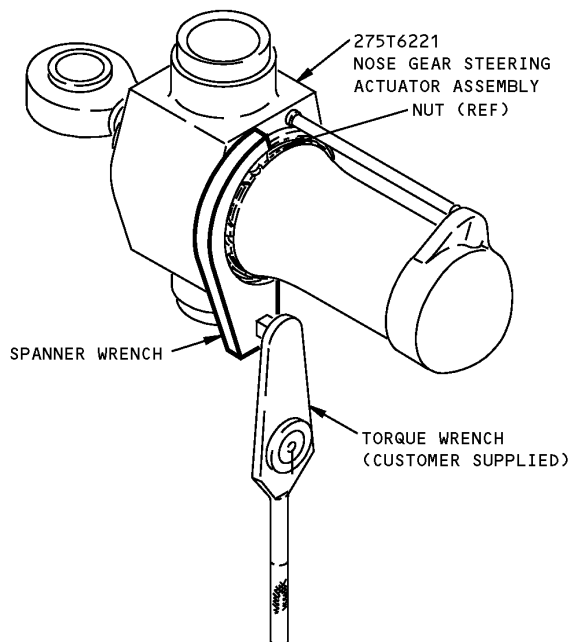
**USAGE & DESCRIPTION:** The A32052-1 test fitting is used during component maintenance on all 767 airplanes. A32052 is used to provide a hydraulic pressure connection during functional testing on the 275T6221 nose gear steering actuator assembly. Refer to CMM 32-51-10 for complete usage instructions. A32052-1 consists of an A32052-2 test fitting assembly contained in a storage box.

**WEIGHT:** 5 lbs (2.3 kg)**DIMENSIONS:** 4 x 4 x 8 inches (102 x 102 x 203 mm)

**Nose Landing Gear Steering Actuator Test Fitting  
Figure 1**



## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32053-1****NAME:** SPANNER WRENCH - RETAINING NUT, STEERING ACTUATOR, NOSE LANDING GEAR (NLG)**AIRPLANE MAINTENANCE:** NO**COMPONENT MAINTENANCE:** YES**USAGE & DESCRIPTION:** The A32053-1 spanner wrench is used during component maintenance on all 767 airplanes. A32053 is used to remove/install the 275T6221 nose landing gear steering actuator cylinder retaining nut. Refer to CMM 32-51-10 for complete usage instructions. A32053-1 consists of an A32053-2 ring and an A32053-3 pin.**WEIGHT:** 1 lb (0.5 kg)**DIMENSIONS:** 1 x 4 x 8 inches (25 x 102 x 203 mm)

**Nose Landing Gear, Steering Actuator Retaining Nut, Spanner Wrench  
Figure 1**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32061-1**

**NAME:** BACKLASH CHECK EQUIPMENT - NOSE LANDING GEAR (NLG) STEERING GEARBOX

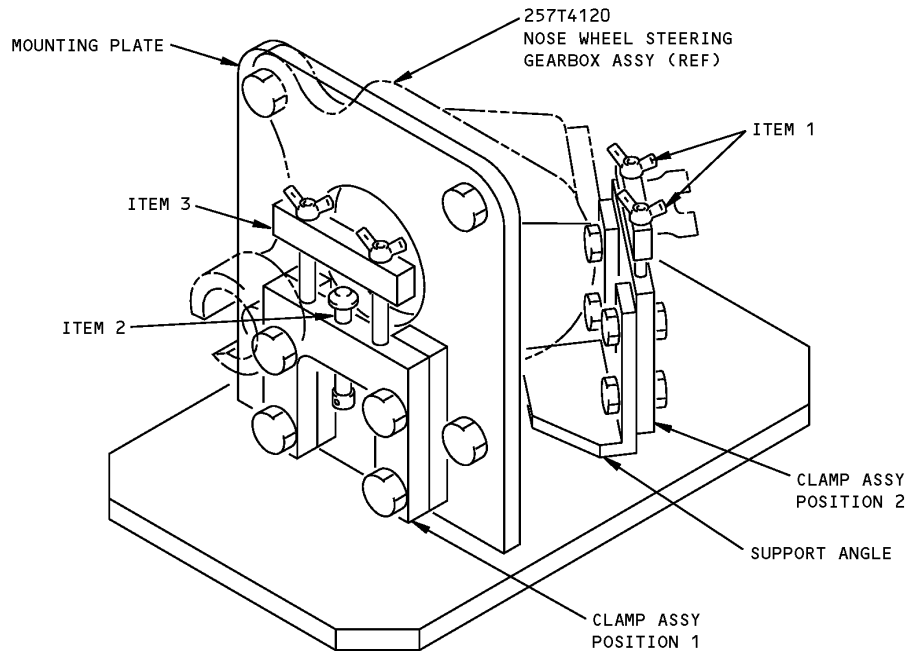
**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32061-1 backlash check equipment is used during component maintenance to check the backlash of the 257T4120 NLG steering gearbox assembly. Refer to CMM 32-51-01 for complete usage instructions. A32061-1 consists of an A32061-2 base assembly, an A32061-8 clamp assembly and assembly hardware.

**WEIGHT:** 15 lbs (7 kg)

**DIMENSIONS:** 7 x 8 x 12 inches (178 x 203 x 305 mm)



**Nose Landing Gear Steering Gearbox, Backlash Check Equipment  
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	MS35426-27	WING NUT	
2	A32061-10	ADJUSTMENT PIN	



767

ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
3	A32061-9	CLAMPING BAR	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32071-1**

**NAME:** COMPRESSION TOOL - SPRING CARTRIDGE NOSE WHEEL STEERING

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

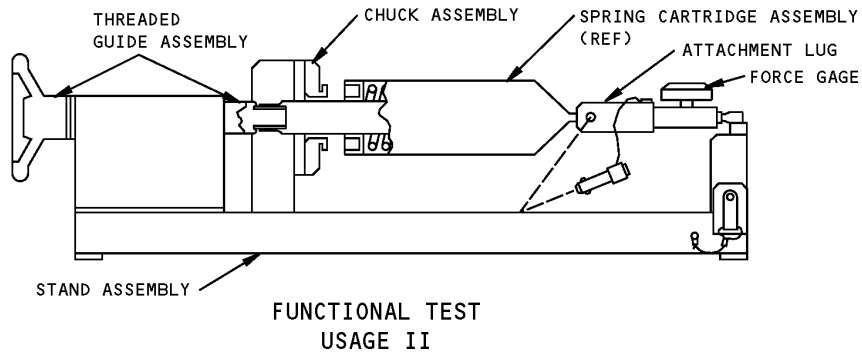
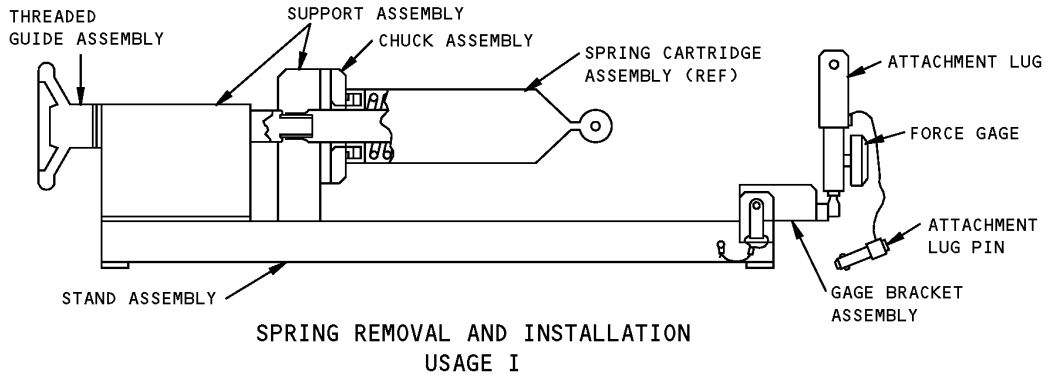
**USAGE & DESCRIPTION:** The A32071-1 compression tool is used during component maintenance on all 767 airplanes. A32071 is used on the 257T4311 nose wheel steering spring cartridge assembly for removal and installation of nose wheel steering compression spring and for functional test of the spring cartridge with the adjustable rod end removed. Refer to CMM 32-51-51 for complete usage instructions. A32071-1 consists of:

A32071-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	STAND ASSEMBLY	A32071-2
1	GAUGE BRACKET ASSEMBLY	A32071-3
1	CHUCK ASSEMBLY	A32071-4
1	SUPPORT ASSEMBLY	A32071-5
1	SUPPORT TUBE ASSEMBLY	A32071-6
1	THREADED GUIDE ASSEMBLY	A32071-7
1	LUG	A32071-8
1	STORAGE BOX	

**WEIGHT:** 70 lbs (32 kg)

**DIMENSIONS:** 10 x 12 x 36 inches (254 x 305 x 914 mm)

ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**Spring Cartridge Nose Wheel Steering Compression Tool  
Figure 1**

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	35784TB-1225	THRUST BEARING	V71041
2	MS16562-59	SPRING PIN	



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32072-1**

**NAME:** FIXTURE - FUNCTIONAL TEST, NOSE LANDING GEAR STEERING ACTUATOR

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** YES

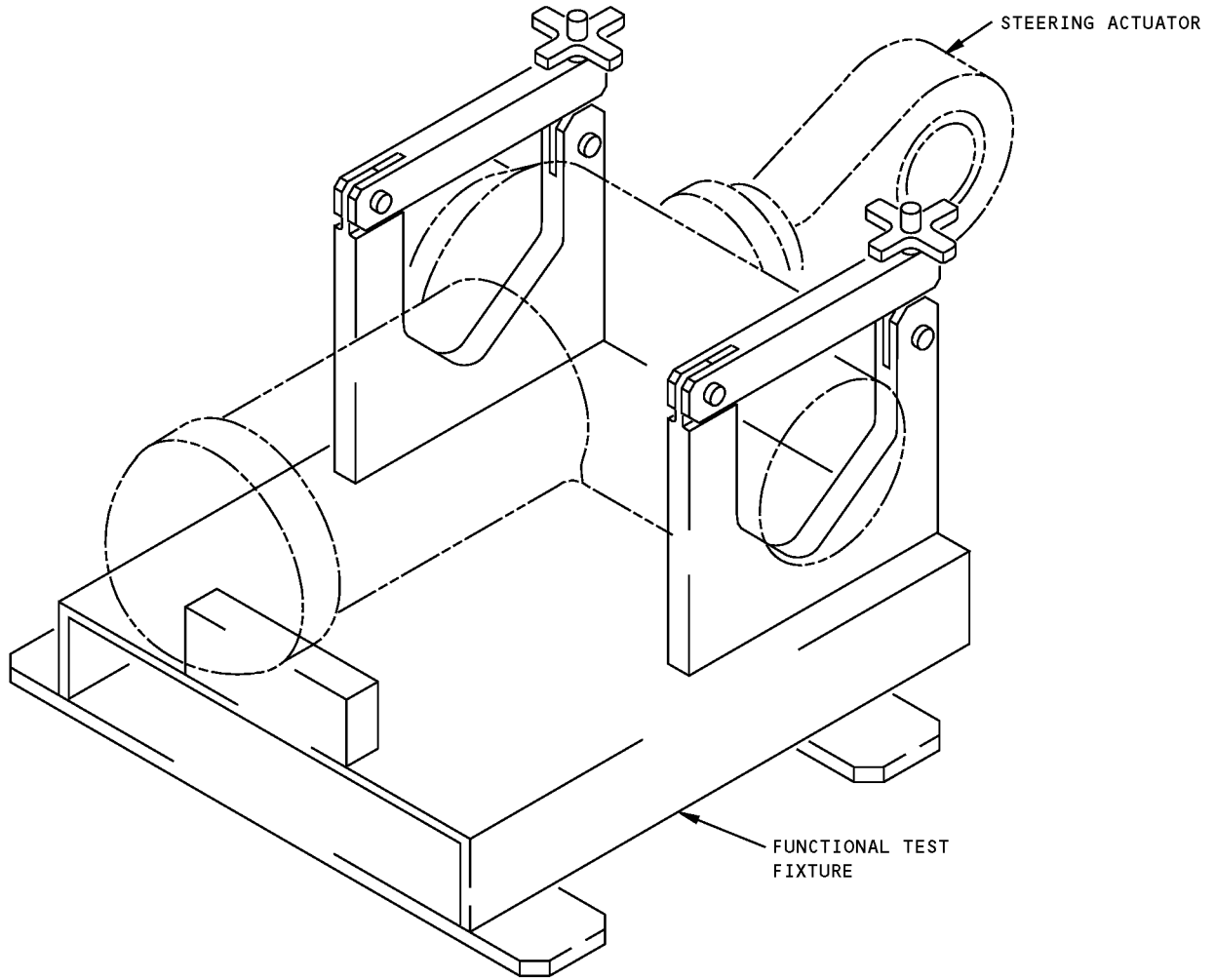
**USAGE & DESCRIPTION:** The A32072-1 fixture is used during component maintenance on all 767 airplanes. A32072 is a holding fixture for the 275T6221 nose landing gear steering actuator assembly during functional testing, disassembly and assembly of the actuator. Refer to CMM 32-51-10 for complete usage instructions. A32072-1 consists of:

<b>A32072-1</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	BASE ASSEMBLY	A32072-2
2	SUPPORT PLATE	A32072-3
2	CLAMP BAR	A32072-4
1	SUPPORT PAD	A32072-5

**WEIGHT:** 29 lbs (13 kg)

**DIMENSIONS:** 11 x 12 x 13 inches (279 x 305 x 330 mm)

**767**  
**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Nose Landing Gear Steering Actuator Functional Test Fixture**  
**Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32096-70, -86**

**NAME:** RIGGING EQUIPMENT - LANDING GEAR, AIR/GROUND SENSORS

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32096-70 rigging equipment is used on the 767-200 and -300 airplanes nose landing gear (NLG) and main landing gear (MLG). The A32096-86 rigging equipment is used on the 767-400 nose landing gear. The A32096 rigging equipment is used to check the gaps between the air/ground sensors and the respective targets on the nose and main landing gear without jacking the airplane. The fixture is utilized to simulate tilting of the gear's bogie team and sensors. Refer to AMM 32-09-07, AMM 32-09-08 and the current A32096 drawing for complete usage instructions. A32096-70 and -86 consists of:

A32096-70		
QUANTITY	NOMENCLATURE	PART NUMBER
1	MLG RIGGING EQUIPMENT	A32096-11
1	NLG RIGGING EQUIPMENT	A32096-73
1	DATA PACKAGE ASSEMBLY	A32096-76
1	STORAGE BOX	

A32096-86		
QUANTITY	NOMENCLATURE	PART NUMBER
1	NLG RIGGING EQUIPMENT	A32096-87
1	STORAGE BOX	

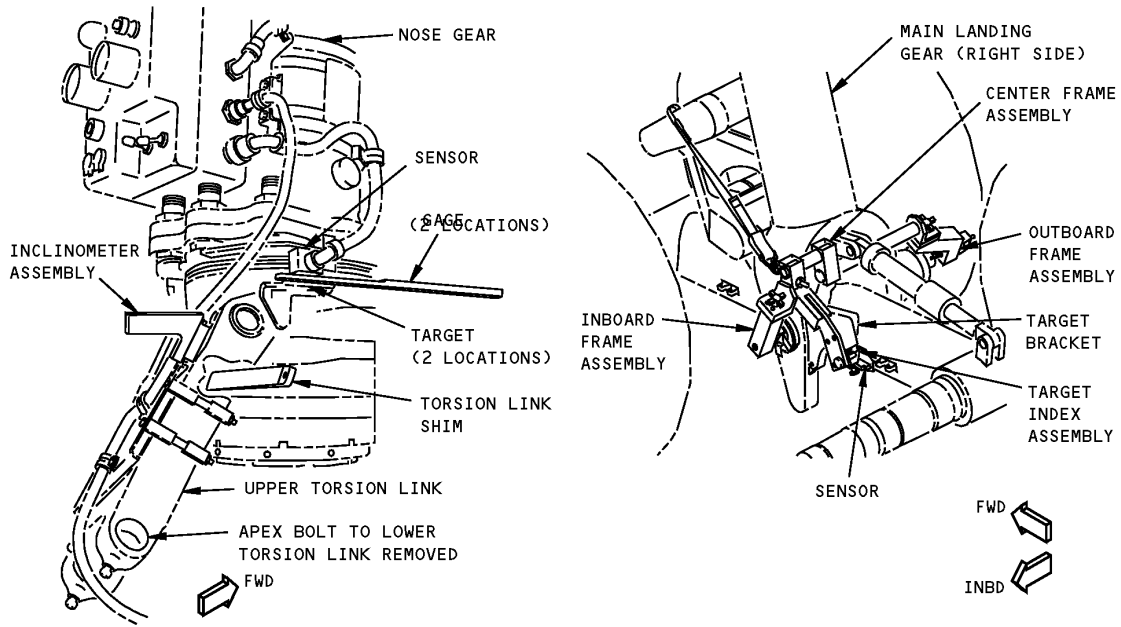
**WEIGHT:** A32096-70 - 25 lbs (11 kg)  
A32096-86 - 4 lbs (1.8 kg)

**DIMENSIONS:** A32096-70 - 9 x 18 x 25 inches (229 x 458 x 635 mm)  
A32096-86 - 2 x 4 x 4 inches (51 x 102 x 102 mm)

**NOTE:** A32096-70 supersedes A32096-10.



**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Landing Gear Air/Ground Sensors Rigging Equipment  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32102-1, -25**

**NAME:** ACTUATOR SET - PROXIMITY SENSOR

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32101-1 or -25 actuator sets are used on all 767 airplanes. A32102 is used to actuate proximity sensors during sensor testing procedures. Refer to AMM 32-09-07, AMM 32-09-08, AMM 32-61-02, AMM 32-61-03 for complete usage instructions for all 767 airplanes. also, refer to AMM 78-36-00 for thrust reverser adjustment on airplanes equipped with JT9D engines A32102-1 and -25 consists of:

A32102-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	ACTUATOR ASSEMBLY	A32102-2
1	ACTUATOR ASSEMBLY	A32102-3
1	STORAGE BOX	

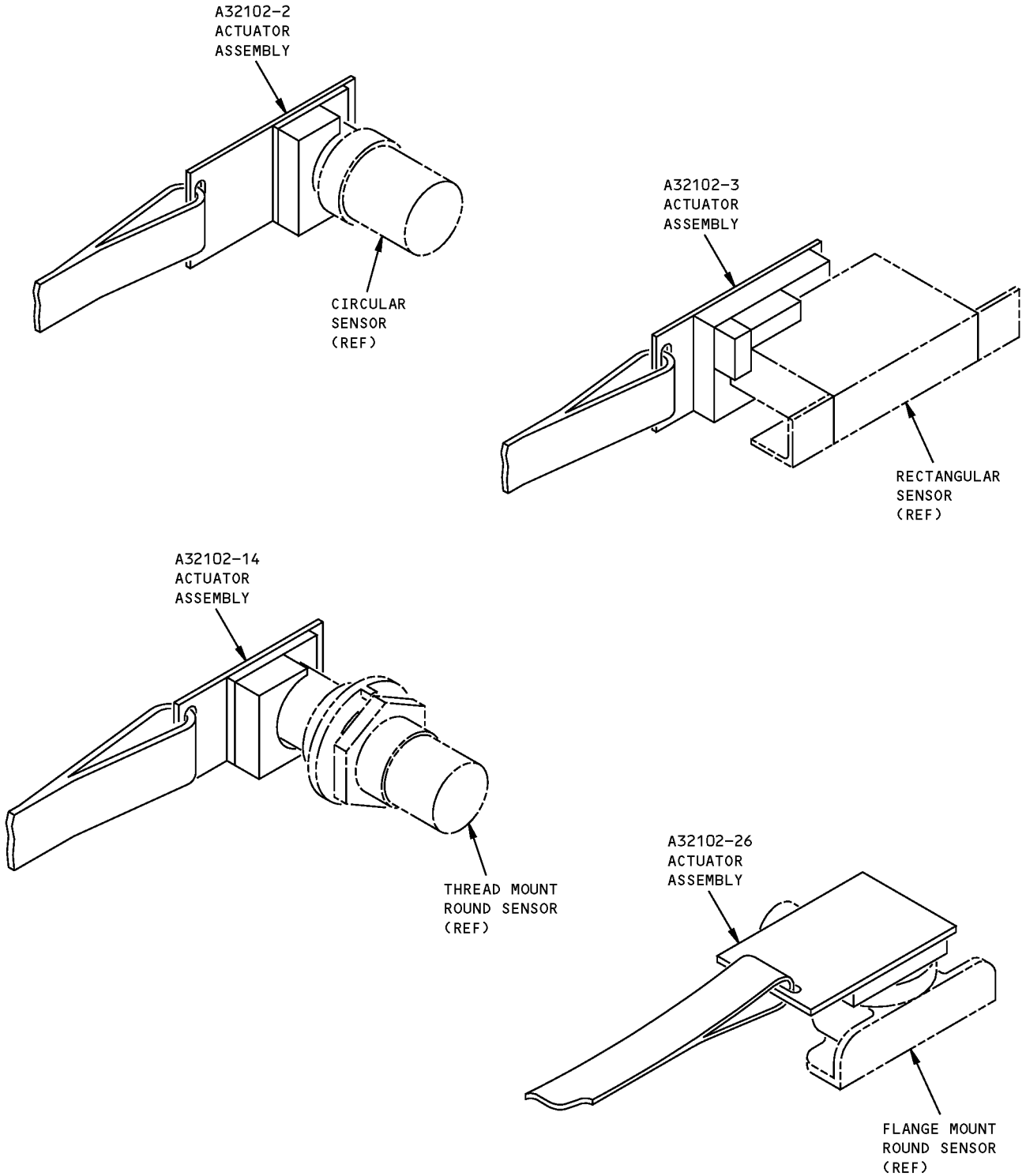
A32102-25		
QUANTITY	NOMENCLATURE	PART NUMBER
1	ACTUATOR ASSEMBLY	A32102-2
1	ACTUATOR ASSEMBLY	A32102-3
1	ACTUATOR ASSEMBLY	A32102-14
1	ACTUATOR ASSEMBLY	A32102-26
1	STORAGE BOX	

**WEIGHT:** 1 lb (0.5 kg)

**DIMENSIONS:** A32102-1 - 2 x 6 x 7 inches (51 x 152 x 178 mm)  
A32102-25 - 2 x 6 x 12 inches (51 x 152 x 305 mm)

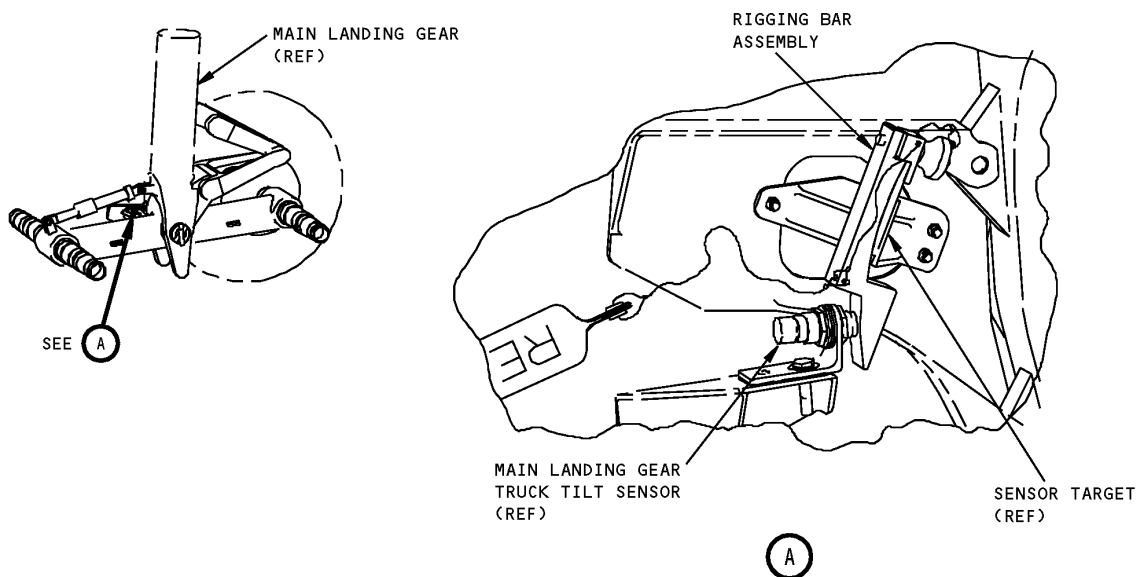
**NOTE:** A32102-25 is preferred for future procurement.  
A32102-25 supersedes A32102-13.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Proximity Sensor Actuator Set  
Figure 1**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

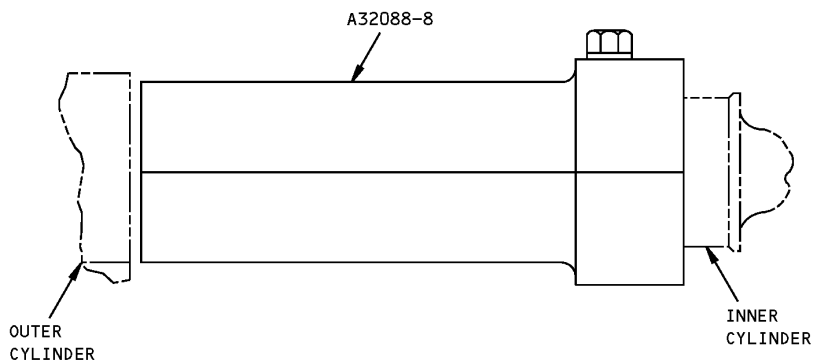
**PART NUMBER: A32123-1****NAME:** RIGGING ASSEMBLY - AIR/GROUND SENSORS, RIGHT HAND MAIN LANDING GEAR (MLG)**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** NO**USAGE & DESCRIPTION:** The A32123-1 rigging assembly is used on all 767-200/-300 airplanes. A32123 is used to locate the proximity sensor and target bracket. Refer to AMM 32-09-07 for complete usage instructions. A32123-1 consists of a A32123-2 rigging bar assembly contained in a storage box.**WEIGHT:** 2 lbs (0.9 kg)**DIMENSIONS:** 3 x 3 x 7 inches (51 x 76 x 178 mm)

**Right Hand, Main Landing Gear Air/Ground Sensors Rigging Assembly**  
**Figure 1**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32088-7****NAME:** MAINTENANCE LOCK - RETRACTABLE TAIL SKID**AIRPLANE MAINTENANCE:** YES**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32088-7 maintenance lock is used on 767-300, -300ER and -300F airplanes. A32088 is used to prevent accidental retraction of the tail skid during servicing. Refer to AMM 32-71-00 and AMM 32-71-06 for complete usage instructions. The A32088-7 maintenance lock consists of a A32008-8 lock assembly contained in a storage box.

**WEIGHT:** 16 lbs (7 kg)**DIMENSIONS:** 6 x 7 x 15 inches (152 x 178 x 381 mm)**NOTE:** A32088-7 supersedes A32088-1.

**Retractable Tail Skid Maintenance Lock  
Figure 1**



767

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32090-14**

**NAME:** HOIST EQUIPMENT - TAIL SKID SHOCK STRUT

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

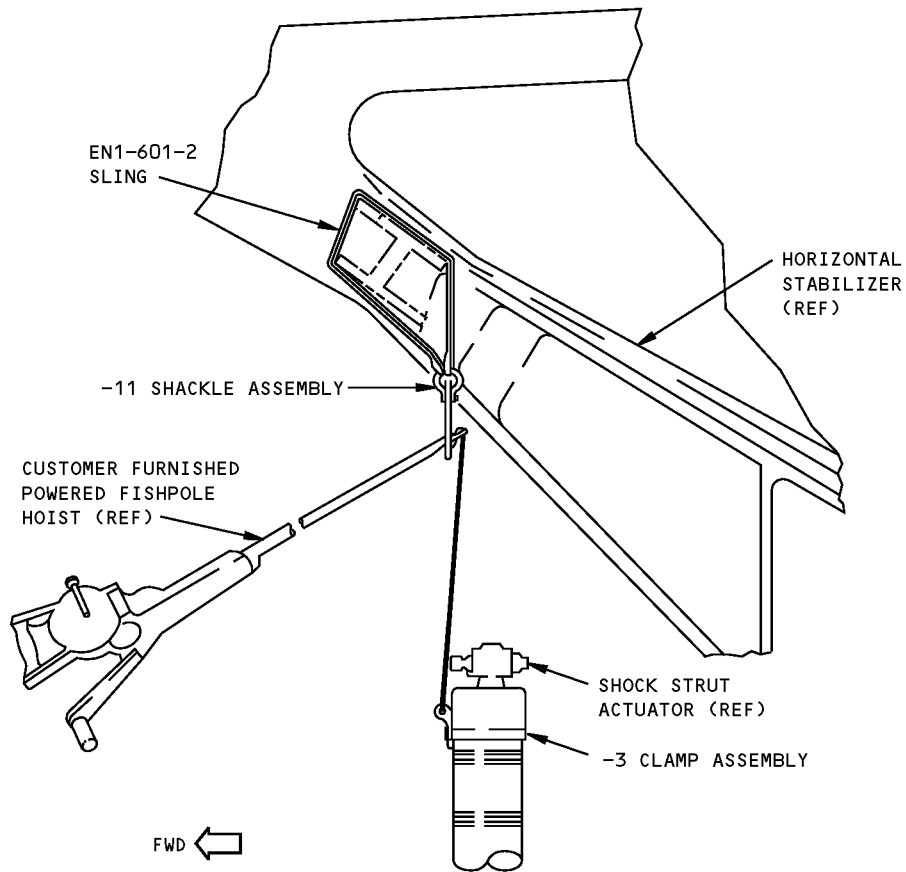
**USAGE & DESCRIPTION:** The A32090-14 hoist equipment is used on 767-300, -300ER and -300F airplanes. A32090 is used to lift an 82 pound tail skid shock strut actuator during removal and installation. Refer to AMM 32-71-05 for complete usage instructions. The A32090-14 consists of:

<b>A32090-14</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	CLAMP ASSEMBLY	A32090-3
1	SHACKLE ASSEMBLY	A32090-11
1	SLING	ENI-601-2
1	STORAGE BOX	

**WEIGHT:** 2 lbs (0.9 kg)

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

**NOTE:** A32090-14 supersedes A32090-10.



**Tail Skid Shock Strut Hoist Equipment  
Figure 1**

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A32103-1**

**NAME:** LOCKOUT PIN - FORWARD AND AFT LOCK LINK, RETRACTABLE TAIL SKID

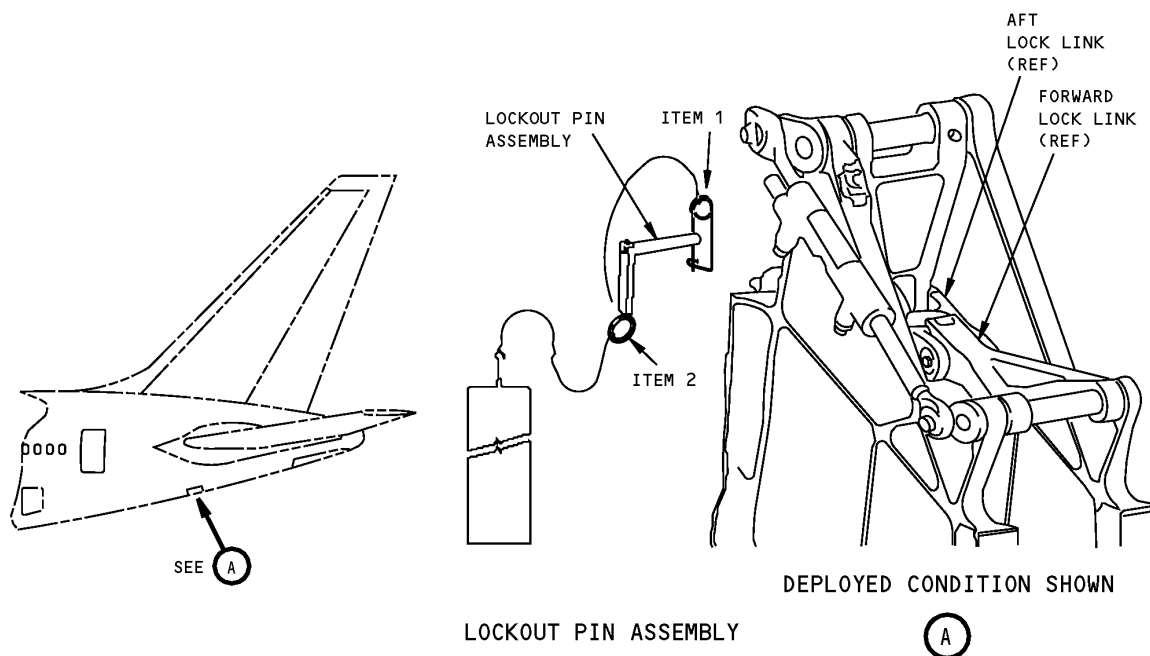
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A32103-1 lockout pin is used on 767-400 airplanes. A32103 is used to restrain the movement of the forward and aft back link on the retractable tail skid. Refer to AMM 32-00-20, AMM 32-71-06, AMM 32-71-08, AMM 32-71-09 and AMM 32-71-10 for complete usage instructions. A32103-1 consists of an A32103-2 lockout pin assembly contained in a storage box.

**WEIGHT:** 0.5 lb (0.2 kg)

**DIMENSIONS:** 3 x 4 x 8 inches (76 x 102 x 203 mm)



**FORWARD AND AFT LOCK LINK, RETRACTABLE TAIL SKID LOCKOUT PIN**  
Figure 1

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	25-05	SAFETY PIN	V7V765
2	29-07	SPLIT RING	V7V765