



757

Illustrated Tool and Equipment Manual

The Boeing Company

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ILLUSTRATED TOOL AND EQUIPMENT MANUAL

Revision No. 93
Sep 20/2008

To: All holders of this Boeing Document D634N501

Attached is the current revision to the 757 Illustrated Tool and Equipment Manual.

The Illustrated Tool and Equipment Manual (ITE) is furnished either as a printed manual, on microfilm, or digital products, or any combination of the three. This revision replaces all previous microfilm cartridges or digital products. All microfilm and digital products are reissued with all obsolete data deleted and all updated pages added.

For printed manuals, changes are indicated on the List of Effective Pages (LEP). The pages which are revised will be identified on the LEP by an R (Revised), A (Added), O (Overflow, i.e. changes to the document structure and/or page layout), or D (Deleted). Each page in the LEP is identified by Chapter-Section-Subject number, page number and page date.

Pages replaced or made obsolete by this revision should be removed and destroyed.

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TEMPORARY REVISIONS

Remove any Temporary Revisions that have a date earlier than the date of this revision.

Do not remove any Temporary Revisions (TRs) that have a date later than the date of this revision. TRs with a later date will be incorporated into the next revision of the manual (unless they are superseded by a subsequent TR).

A TR status report is sent with each TR. The TR status report has a list of all TRs that were sent for this manual during the last two revision cycles. At the top of the list is the date and time that the list was created.

When you have more than one TR, the TR status report with the latest date and time gives you the most current information.

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Location of Change

Description of Change

FRONTMATTER

Changed contact names, phone numbers and E-mail addresses. Removed Franke GMBH and May Technology.

CHAPTER 20

20-10-05

Added Subject 20-10-05.

20-10-06

Added Subject 20-10-06.

CHAPTER 21

21-30-02

Added new information to A21010-57, -69 and -72 Vacuum Tank.

CHAPTER 24

24-20-03

Changed Usage & Description for A49002-1 and -2 Lifting Eye.

CHAPTER 25

25-20-05

Added Subject 25-20-05.

CHAPTER 27

27-20-12

Added Subject 27-20-12.

27-30-01

Changed B27009 Lock-Out Equipment "Usage & Description."

27-30-22

Added A27092-106 Actuator/Deactuator Test Set.

27-40-01

Changed B27011-79 Installation/Removal Equipment's "Weight and Dimensions."

CHAPTER 28

28-10-08

Added new graphics to B28005-1 Pressure Plug Equipment.

28-10-12

Added G28005-42 Check Fixture Equipment.

28-10-14

Added J28007-9 and J28007-10 Pressurization Equipment.

28-10-15

Added Subject 28-10-15.

28-20-06

Changed part number in equipment component table to A28005-53.

CHAPTER 32

32-20-02

Removed typo from "Usage & Description" of B32003-1 Pin Puller.

32-60-01

Added: A27092 Actuator/Deactuator Test Set replaces A32102 Actuator Set for future procurement.

CHAPTER 34

34-00-03

Added C34005-16 Extender Box.

34-10-03

Changed Usage & Description for A34016-1, -2, -5, -7, -8, -9, -10, -11, -16, -21, -22, -23, -24, -27, -28, -33, -34, -35 Breakout Box Equipment.

34-10-04

Added Subject 34-10-04.

CHAPTER 38

38-30-08

Added A38001-68 Vacuum Source, Deleted A38001-25 Vacuum Source.
Changed Usage & Description field to improve description of tool use.

CHAPTER 49

HIGHLIGHTS



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Location of Change

Description of Change

49-00-09

Added to J20009-38, -70 and -78 Jacking Equipment usage and description.
Changed B27009 Lock-Out Equipment "Usage & Description."

CHAPTER 51

51-60-01

Changed usage and description of F70330-4 and -99 Static Balance Equipment.

CHAPTER 52

52-20-02

Added graphic to B52022-21, Measurement Tool.

52-20-03

Changed supersede note typo on B52015-9 Safety Barrier.

CHAPTER 57

57-00

Added Section 57-00, GENERAL.

CHAPTER 71

71-00-15

Added B71022-152 supersede information to B71022-172 Engine Handling Equipment.

71-00-28

Added new graphics for B71044-28 Adapter Equipment.

71-20-01

Added B71024-35 and -36 Tool Set, deleted B71024-17 and -24 Tool Set.

CHAPTER 78

78-30-02

Changed "Weight and Dimensions" for the C78005-21 Hand Pump.

78-30-09

Added reference to B78003-1 and -6 Pin usage and description.

78-30-34

Added Subject 78-30-34.

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France
| Tel: 33-562-11-1717
| Fax: 33-562-11-1749
www.sintors.fr

11. Spec Tool Co.
P. O. Box 1056
Pico Rivera, CA 90660
USA
Tel: (562)-945-3351
| Fax: (562) 945-3359
| email: spectool@verizon.net

12. Techman-Head (V F8303)
P. O. Box 208
83089 Toulon Cedex 09
France
| Tel: 33-494-01-7185
Fax: 33-494-08-2087
sales@tmhfrance.com
CANADA ADDRESS:
TMH Canada Inc.
628, Cure Boivin
Boisbriand (Quebec) J7G 2A7
Canada
Tel: (450) 433-7733
Fax: (450) 433-7086
www.techman-head.com
email: sales@tmhcanada.com

13. Turnmil Engineering (V KC969)
Riverside Industrial Estate
Glanamman Ammananford
Carmarthenshire SA18 1LQ
Wales
| Tel: 44-1269-824570
| Fax: 44-1269-824650
www.turnmil.co.uk

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Fax: (562) 906-9308
www.agsecorp.com
2. Dediennie Corporation (V FA9P7)
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Z A du Casque II
31270 Cugnaux, France
Tel: 33-561-06-7779
Fax: 33-561-06-8113
email: contact@dedienne-aero.com
www.dedienne-aerospace.com
USA ADDRESS:
Dedienne Aerospace - USA
2112 NW 99 th Avenue #12
Miami, FL 33172
USA
Tel: (305) 716-8300
Fax: (305) 716-8302
email: contact.miami@dedienne-aero.com
www.dedienne-aerospace.com
3. Frank Brown & Son (Luton) Limited (V U8183)
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Luton Bedfordshire LU4 8QA
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Tel: 44-15-8259-7246
Fax: 44-15-8250-5959
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Germany
Tel: 49-7835-7870
Fax: 49-7835-1823
www.hydro.de
USA ADDRESS:
Hydro USA Company (V 1JJE1)
1220 37th St., N .W. Suite 101
Auburn, WA. 98001
Tel: (253) 876-2100
Fax: (253) 876-2110
email: sales@hydrousaco.com
www.hydro.de

- I 5. Menches Tool & Die, Incorporated (V 28033)
30995 San Benito Street
Hayward, CA 94544
USA
Tel: (510) 476-1160
Fax: (510) 476-1164
www.menches.com

- I 6. Precision Profiles Ltd.
Southway Drive, North Common
Warmley, Bristol
Bristol BS30 5LW
England
Tel: 44-11-7960-9966
Fax: 44-11-7960-9988
www.precisionprofiles.co.uk/contact/associat.htm

- I 7. Rhinestahl Corporation
6510 Corporate Drive
Cincinnati, OH 45242
USA
Tel: (513) 489-1317
Fax: (513) 489-3899
www.rhinestahl.com

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- I 8. Time Aviation Services (V 1XBT9)
28402 W. Livingston Avenue
Valencia, CA 91355
USA
Tel: (661) 702-0800
Fax: (661) 702-0888
www.timeaviation.com

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1. Aircraft Tool and Maintenance Equipment , Incorporated has been removed from the list.

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INTRODUCTION

This Illustrated Tool and Equipment Manual (ITEM) is prepared in conformance to the Air Transport Association of America Specification 100 (Revision 33, Jan 15, 1995).

The Illustrated Tool and Equipment Manual provides operators of Boeing 757-200 and -300 airplanes descriptive information, illustrations and explanations for use of Boeing-designed tools, ground handling and test equipment recommended by Boeing to facilitate airplane maintenance, component maintenance and servicing. Tool and equipment classification is arranged by chapter/section/subject as specified in the ATA Specification 100. Omissions in the numerical chapter/section sequence indicate that no tool is required other than standard shop tools.

1. GENERAL

A. The letters listed below are used as prefixes to the part numbers on Boeing-designed tools:

- A - Tools designed for 767 airplanes
- B - Tools designed for 757 airplanes
- C - Tools for 737 airplanes
- F - Tools designed for 707/727/737-100/-200 airplanes
- G - Tools designed for 747 airplanes
- J - Tools designed for 777 airplanes
- K - Tools designed for 787 airplanes
- R - Tools procurable through Boeing only

B. Tools designed for Boeing Manufacturing

- AJ - Assembly Jig
- BOF - Boring Fixture
- CF - Checking Fixture
- DFT - Design Facility Tool
- DJ - Drill Jig
- FME - Floor-Mounted Mechanical Equipment
- LJ - Locating Jig
- ME - Mechanical Equipment
- MIT - Miscellaneous Tool
- OHME - Overhead Mechanical Equipment
- PME - Floor Position Unit (Portable)
- PRE - Protective Equipment
- SE - Special Equipment
- SME - Shipping Mechanical Equipment
- ST - Standard Tool
- TE - Test Equipment
- TME - Transportation Mechanical Equipment

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TSJ - Test Jig

NOTE: As specified by ATA definition, the word "replace" means that the tool is still usable but the replacing tool is recommended for future procurement. The word "supersede" means that the superseded tool is not usable and it must be reworked or the tool which supersedes it must be used as the substitute tool.

- C. Boeing designed tools and equipment are categorized as airplane maintenance or component maintenance. Airplane maintenance tools are used by the mechanic working on the airplane and its systems; these tools are referenced in the Maintenance Manual. Component maintenance tools are used by the mechanic doing shop work on units removed from the airplane; these tools are referenced in the Component Maintenance Manual.
- D. Tool and equipment component parts that have been indicated as repairable/replaceable are considered recommended spare parts and are listed in a chart on the ITEM page. Tool fabrication drawings are provided to assist suppliers in tool manufacture.
- E. Tools and equipment exceeding 35 pounds are considered weight significant and weight is reported to the nearest pound. Dimensions less than 100 inches are reported in inches to the nearest inch. Dimensions more than 100 inches are reported in feet and inches to the nearest inch.

2. PUBLICATION CHANGE REQUESTS

Communications regarding this publication should be directed to Boeing Commercial Airplanes, Maintenance Publications Engineering; Attention: Supervisor, Repair Manuals. For uniform handling and direct routing of questions to the proper Boeing organization, use the Publications Change Request (PCR) Form. Boeing makes this form available to your publications organization.

3. TOOL CHANGE BULLETIN (TCB)

This Boeing form is used to provide airlines and vendors the most timely notice of significant changes or problems related to support equipment designed or recommended by the Boeing Company.

4. THREE ELEMENT NUMBERING SYSTEM

A three element numbering system is used in this manual. The first two numbers designate the ATA Specification 100 chapter. The second two numbers designate the section within that chapter. The fifth and sixth numbers designate a subject tool index in that chapter/section of the manual. The Chapter-Section-Subject numbers are displayed in the lower right-hand corner of each page. The page number and issue/revision date are listed directly to the right of the Chapter-Section-Subject indicator.

An illustration of the three element, numbering system is shown in Figure 1. Chapter 32, "Landing Gear" is designated by the first two digits. Section 10, "Main Gear and Doors" is designated by the second two digits. Subject 02 is the designator for the second tool in Chapter 32, Section 10. Each subject starts with page 1 and runs consecutively to the next subject which starts again with page 1.

5. NUMERICAL INDEX

The tool data in this manual can be found as shown in Figure 2. For data on the "Adapter - Anti-Skid Transducer Spin-Up", A32075-1, -9, -10 refer to the Numerical Index and locate the tool number. The index shows that the data on this tool is found in Chapter-Section-Subject 32-40-04, page 1. Turn to Subject 32-40-04, Page 1 for information on this tool.

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PART NUMBER: B32006-13

NAME: LINK - SHOCK STRUT POSITIONER, MAIN LANDING GEAR (MLG)

AIRPLANE MAINTENANCE: YES

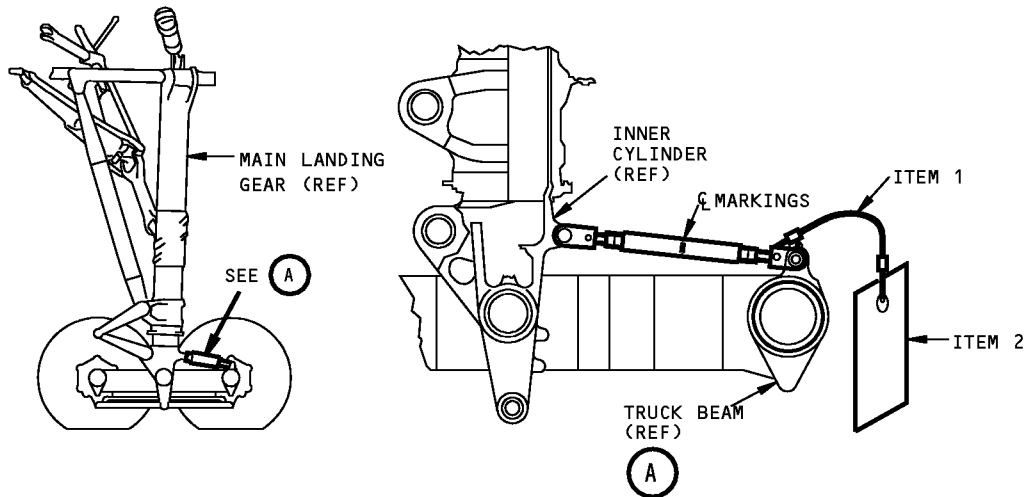
COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: The B32006-13 link is used on all 757 airplanes. B32006 is used during main landing gear removal and installation procedures. B32006 replaces the truck positioning actuator, adjusts and stabilizes the gear attitude to achieve aligned gear movement. The tool is a left and right hand screw thread shaft (a turnbuckle arrangement) with eyes at each end that fit onto the main landing gear inner cylinder and the main landing gear truck beam, respectively. Refer to AMM 32-11-01, AMM 32-11-24, CMM 32-11-23, CMM 32-11-26 and CMM 32-11-32 for complete usage instructions. B32006-13 consists of a B32006-14 link assembly, a warning streamer and connecting hardware, all contained in a storage box.

WEIGHT: 9 lbs (4.1 kg)

DIMENSIONS: 4 x 10 x 20 inches (102 x 254 x 508 mm)

NOTE: B32006-13 supersedes B32006-1.



MLG Shock Strut Positioner Link
Figure 1

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32-10-02

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**Tool Numbering Example
Figure 1**

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Subject	Title	Part No.
32-30-14	LOCATING FIXTURE - VALVE, GEAR OPERATED SEQUENCE, NOSE LANDING GEAR (NLG)	B32045-1, -11
32-30-15	SPRING EXTENDER - LOCK RELEASE ACTUATOR, MAIN LANDING GEAR (MLG) AND NOSE LANDING GEAR (NLG) DOOR	B32051-1
32-30-16	ADAPTER - UNLOCK, MAIN LANDING GEAR (MLG)	B32054-1
32-30-17	OVERHAUL EQUIPMENT - RETRACT ACTUATOR ASSEMBLY, MAIN LANDING GEAR (MLG)	B32057-1
32-30-18	PULLER EQUIPMENT - AXLE SLEEVE, MAIN LANDING GEAR (MLG)	B32059-15
32-30-19	DRILL JIG - AXLE SLEEVE	B32060-1
32-30-20	TORQUE EQUIPMENT - SEQUENCE VALVE/BYPASS VALVE, NOSE LANDING GEAR (NLG)	B32062-1
32-30-21	FORCE GAGE EQUIPMENT - LANDING GEAR LEVER	G32021-18
32-30-22	STRUT - HOLD OPEN, MAIN LANDING GEAR (MLG) DOOR	B32017-1
32-30-23	HOIST ADAPTER - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)	B32008-1
32-30-23	RISEING FIXTURE - MAIN LANDING GEAR DOOR OPERATED SEQUENCE VALVE ASSEMBLY	B32065-1
32-40-01	BRAKE PULLER - MAIN LANDING GEAR	B32016-13
32-40-02	BRAKE DISCONNECT - FLIGHT DISPATCH	B32022-1,-6
32-40-03	INITIATION TOOL SET - RETAINER NUT, ANTI-SKID TRANSDUCER	B32035-10
32-40-04	ADAPTER - ANTI-SKID TRANSDUCER SPIN-UP	A32075-1,-10,-9
32-40-05	BRAKE DISCONNECT - FLIGHT DISPATCH	A32080-1
32-40-06	ALIGNMENT EQUIPMENT - BRAKE ROTOR, MAIN LANDING GEAR (MLG)	B32058-27
32-40-07	ALIGNMENT FIXTURE	AA1364
32-40-08	TEST FIXTURE EQUIPMENT - AUTOBRAKE ACTUATOR	B32065-1
32-40-09	SOCKET EQUIPMENT - BRAKE DISCONNECT VALVE	C32011-7
32-40-10	MEASURING EQUIPMENT - BRAKE PEDAL	J32001-63-64
32-40-11	GAGE EQUIPMENT - HYDRAULIC BRAKE SYSTEM PRESSURE CHECKING	F72977-62
32-50-01	TEST EQUIPMENT - NOSE WHEEL STEERING DRUM MECHANISM	B32032-1
32-50-02	BUILD-UP EQUIPMENT - ACTUATOR, NOSE GEAR STEERING	B32040-1,-35,-36,-37
32-50-03	SPRING COMPRESSION EQUIPMENT - NOSE WHEEL STEERING CONTROL	B32061-1
32-50-04	WRENCH ADAPTER - NOSE WHEEL STEERING TILLER HANDLE	B32067-1
32-60-01	ACTUATOR SET - PROXIMITY SENSOR	A32102-1,-25

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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 (preferred) adapter is used on all 757 airplanes. A32075 is used with a customer-furnished drill to spin the wheel speed transducer during transducer circuit tests of the anti-skid system. A32075-9 is a modified A32075-1, which adds 757-200 thru -500 airplane capability to the existing adapter. Refer to AMM 32-42-06 for complete usage instructions. A32075-10 consists of a A32075-12 adapter assembly contained in a storage box.

WEIGHT: 1 lb (0.45 kg)

DIMENSIONS: 6 x 6 x 12 inches (162 x 162 x 305 mm)

NOTES: A32075-10 replaces both A32075-1 and A32075-9 for future procurement.

Anti-Skid Transducer Spin-Up Adapter
Figure 1

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**Tool Location Example
Figure 2**

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