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Illustrated Tool and Equipment Manual

The Boeing Company

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ILLUSTRATED TOOL AND EQUIPMENT MANUAL

Revision No. 96
Oct 10/2008

To: All holders of this Boeing Document D634T501

Attached is the current revision to the 767 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.

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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 TRs with a later date will be incorporated into the next revision of the manual (unless they are superseded by a subsequent TR).

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Location of Change

Description of Change

FRONTMATTER

Added tool dimension clarification statement in the introduction section.

CHAPTER 05

05-50-03

Changed loop resistance test set part number in usage and description.

CHAPTER 12

12-10-01

Added new tool dash number for A12007 Adapter - Tire Inflation.

CHAPTER 21

21-30-01

Changed note and usage information to reflex tool dash number for A21010 Vacuum Tank - Pressure relief Valve Test.

CHAPTER 24

24-00-01

Added supersede note and new tool dash number for tool A71015 Lift Fixture - Engine Accessory.

24-10-09

Added Subject 24-10-09.

CHAPTER 25

25-20-05

Added weight data to J25001 Lever - Stowage Bin Release.

25-20-08

Added Subject 25-20-08.

CHAPTER 27

27-20-06

Added Subject 27-20-06.

27-80-17

Changed supersede note for tool A27092 Actuator/Deactuator Set - Proximity Sensors.

CHAPTER 28

28-10-17

Changed due to new J28007 Pressurization Equipment - Wing Dry Bay, Fuel Leak Detection tool design.

28-10-18

Added new dash number for tool J28010 Console - Shop Air Supply.

28-10-19

Added Subject 28-10-19.

CHAPTER 32

32-10-15

Added Note to A32030 Lock, Main Landing Gear Door.

32-70-01

Added aircraft model applicability to A32088 Maintenance Lock - Retractable Tail Skid drawing.

32-70-02

Added aircraft applicability to A32090 Hoist Equipment - Tail Skid Shock Strut.

CHAPTER 34

34-00-05

Added Subject 34-00-05.

34-10-03

Added tool dash number to A34016 Breakout Box - ARINC 600, Line Maintenance subject.

CHAPTER 52

52-30-16

Added weights and dimensions to F70258 Personal Safety Barrier - Main Deck Cargo Door.

HIGHLIGHTS



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Description of Change

CHAPTER 55

55-10-01

Added new tool A55001-47 reference superseding A55001-42 tool reference.

CHAPTER 57

57-30-02

Added Subject 57-30-02.

CHAPTER 78

78-30-09

Changed tool dimensions and weight data.

78-30-21

Changed A78025 usage and description to correct typo.

Changed A78025-1 and -77 to A78025-3 and -79 Breakout Box Assembly call outs.

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LICENSE AGREEMENTS

In accordance with licensing agreements and Boeing supplied technical data, Boeing designated special tools and ground handling equipment listed in this document are licensed to be supplied by the following GSE suppliers.

These supplier agreements are not intended to prevent airline customers from manufacturing or having manufactured all items listed in this document. Tool fabrication drawings are provided to assist suppliers in tool manufacture.

LICENSE AGREEMENTS WITH GSE SUPPLIERS

ALL GSE ITEMS (MECHANICAL-ELECTRICAL-ELECTRONIC) - ALL MODELS

1. Aero Info, Incorporated
20485 Silver Dawn Drive
Sonora, CA 95370 USA
Attn: Mike Wilson
Telephone: (209) 533-2868
Fax: (209) 536-0497
E-mail or Web: www.aeroinfoinc.com
Vendor Code: 52303

2. Aero Supply and Consulting
11701 N.W. 102nd Road, Suite 10
Medley, Florida 33178 USA
Attn: Daily Boffill
Telephone: (305) 885-2758
Fax: (305) 885-2869
E-mail or Web: www.aerosupply.org
Vendor Code: 1CPC0

3. Air Spares, Incorporated
609 N. Levee Road
Puyallup, WA 98371 USA
Attn: Ken Powell
Telephone: (253) 286-2525 or (800) 523-3088
Fax: (253) 286-2526
E-mail or Web: www.airspares.com
Vendor Code: 8M213

4. DCM Aeronautique
519 Papineau Street
Boisbriand, Quebec
J7G 2B7 Canada
Attn: Danielle Dery
Telephone: (450) 435-9499
E-mail or Web: www.dcmaeronautique.com

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5. Farwest Aircraft, Incorporated
P. O. Box 1889
Milton, WA 98354 USA
Attn: Frank Gutfrucht
Telephone: (253) 568-1707
Fax: (253) 927-3478
E-mail or Web: www.farwestair.com
Vendor Code: 34107

6. Industrial Automation, Incorporated
1421 S. 93rd Street
Seattle, WA 98108 USA
Attn: Trevor Deffner
Telephone: (206) 763-1025
Fax: (206) 763-3226
E-mail or Web: www.iagse.com
Vendor Code: 053H3

7. Messier Services Asia, PTE Limited
21 Loyang Crescent
Singapore 508985
Attn: Wen Ting
Telephone: 65-545-9455
Fax: 65-542-3936
E-mail or Web: www.messierservices.com

8. Modern Machine Company
519 S. Elmgrove Street
Seattle, WA 98708
Attn: Jim Nye
Telephone: (206) 764-6997
Fax: (206) 764-7094
E-mail or Web: www.modernmachine.us

9. Quality Aircraft Tooling
1048 King Industrial Drive
Marietta, GA 30062 USA
Attn: Benny McCleskey
Telephone: (770) 429-8157
Fax: (770) 423-9807
E-mail or Web: www.qualityaircrafttooling.com
Vendor Code: 0AHE0

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10. Sinters SAS
5 rue Paul Mesple
BP 1311 - 31106
Toulouse Cedex 01 France
Attn: Thierry Casamian
Telephone: 33-562-11-1717
Fax: 33-562-11-1749
www.sinters.fr

11. Spec Tool Company
P. O. Box 1056
Pico Rivera, CA 90660 USA
Attn: David Fink
Telephone: (562)-945-3351
Fax: (562) 945 + 3359
E-mail or Web: spectool@verizon.net (no website)

12. Techman-Head
BP 208
83089 Toulon Cedex 09
France
Attn: Rene Formento
Tel: 33-4-94-01-71-80
Fax: 33-4-94-08-20-87
tmh@tmhfrance.com
Vendor Code: F8303

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TMH Canada Incorporated
628, Cure Boivin
Boisbriand (Quebec) J7G 2A7 Canada
Remy Benois
Telephone: (450) 433-7733
Fax: (450) 433-7086
E-mail or Web: www.techman-head.com
sales@tmhcanada.com

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13. Turnmil Engineering
Riverside Industrial Estate
Glanamman Ammananford
Carmarthenshire SA18 1LQ Wales
Attn: Ceri Ace
Telephone: 44 1269 824570
Fax: 44 1269 824650
E-mail or Web: www.turnmil.co.uk
Vendor Code: KC969

ELECTRICAL/ELECTRONIC GSE/TOOLING - ALL MODELS

NOTE: Aircraft Tool and Equipment, Incorporated has been removed.

MECHANICAL AND ENGINE HANDLING GSE/TOOLING- ALL MODELS

1. Advanced Ground Systems Engineering Corporation (AGSE)
10805 Painter Avenue
Santa Fe Springs, CA 90670 USA
Attn: Frank Judge
Telephone: (562) 906-9300
Fax: (562) 906-9308
E-mail or Web: www.agsecorp.com
Vendor Code: 9M323

2. Dedienne Corporation
17 Rue Aristide Berges
ZA du Casque II
31270 Cugnaux, France
Attn: Cedric Barbe
Telephone: 33 561 06 7779
Fax: 33 561 06 8113
E-mail or Web: [mail: contact@dedienne-aero.com](mailto:contact@dedienne-aero.com)
www.dedienne-aerospace.com
Vendor Code: V FA9P7

USA ADDRESS:

Dedienne Aerospace - USA
2112 NW 99 th Avenue #12
Miami, FL 33172 USA
Attn: Karel Volot
Telephone: (305) 716-8300
Fax: 305) 716-8302
E-mail or Web: contact.miami@dedienne-aero.com
www.dedienne-aerospace.com

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3. Frank Brown & Son (Luton) Limited
87-105 Wingate Road
Luton Bedfordshire LU4 8QA
United Kingdom
Attn: Clive Brown
Telephone: 44-1582-597246
Fax: 44-1582-505959
E-mail or Web: www.frankbrown.co.uk
Vendor Code: U8183

4. Franke GMBH
1 Ohlendorfer Strasse 4
21220 Seevetal (Ramelsloh)
Germany
Attn: Andreas Stapelfeldt
Telephone: 49-4185-7000-35
Fax: 49-4185-7000-10
E-mail or Web: www.franke-gse.com

5. Hydro-Geratebau GMBH & Company
Ahfeldstrasse 10
D-77781 Biberach/Baden
Germany
Attn: Thomas Hoh
Tel: 49-7835-7870
Fax: 49-7835-1823
E-mail or Web: www.hydro.de
Vendor Code: D2029

USA ADDRESS:

Hydro USA Company
1220 37th St., N.W. Suite 101
Auburn, WA. 98001 USA
Attn: Mattias Korward
Telephone: (253) 876-2100
Fax: (253) 876-2110
E-mail or Web: email: sales@hydrousaco.com
www.hydro.de
Vendor Code: 1JJE1

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6. May Technology and Manufacturing
2922 Wheeling
Kansas City, MO 64129 USA
Attn: Steve May
Telephone: (816) 923-6262
Fax: (816) 923-6277
E-mail or Web: email: maytech@mayinc.com)
Vendor Code: 2X572

7. Menches Tool & Die, Incorporated
30995 San Benito Street
Hayward, CA 94544 USA
Attn: John Menches
Telephone: (510) 476-1160
Fax: (510) 476-1164
E-mail or Web: www.menches.com
Vendor code: 28033

8. Precision Profiles Limited
Southway Drive, North Common
Warmley Bristol
BS30 5LW England
Attn: Andy Finn
Telephone: 44-11-7960-9966
Fax: 44-11-7960-9988
E-mail or Web: www.precisionprofiles.co.uk/contact/associat.htm

9. Rhinestahl Corporation
6510 Corporate Drive
Cincinnati, OH 45242 USA
Attn: Dieter Moeller
Telephone: (513) 489-1317
Fax: (513) 489-3899
E-mail or Web: www.rhinestahl.com

10. Time Aviation Services
28402 W. Livingston Avenue
Valencia, CA 91355 USA
Attn: Claudia Douglas
Telephone: (661) 702-0800
Fax: (661) 702-0888
E-mail or Web: www.timeaviation.com
Vender Code: 1XBT9

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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 767-200 /-300 /-400 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. The dimensions noted for each tool in the body of this document are generally the outside dimensions of the container in which the tool is stored, not the actual dimensions of the tool.

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 22, "Auto Flight" is designated by the first two digits. Section 20, "Speed - Attitude Correction" is designated by the second two digits. Subject 01 is the designator for the first tool in Chapter 22, Section 20. 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 "Puller - Trunnion Pins, Nose Landing Gear", A32011-1, 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 32-20-01, page 1. Turn to Subject 32-20-01, Page 1 for information on this tool.

6. BAE SYSTEMS TOOL DRAWINGS

BAE Systems has purchased the intellectual property (IP) of the Boeing Commercial Electronics group. The IP pertains to certain electrical / electronic airplane components, their associated drawings, and product support documents, such as Component Maintenance Manuals (CMMs). Specified in many of

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these CMMs are Ground Support Equipment (GSE) that were designed by the Boeing Maintenance Ground Operations Systems (MGOS) group. The affected GSE drawings are also now the IP of BAE Systems. GSE that are affected by this transaction are identified in the body of this document.

For technical questions and customer support concerning the tools identified as BAE Systems IP in this document, please contact BAE Systems at :

cs-customer.service@baesystems.com

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PART NUMBER: A22005-1, -9

NAME: BREAKOUT BOX - ATS LOADBOARD YAW DAMPER MONITOR
RECEIVER, PCA

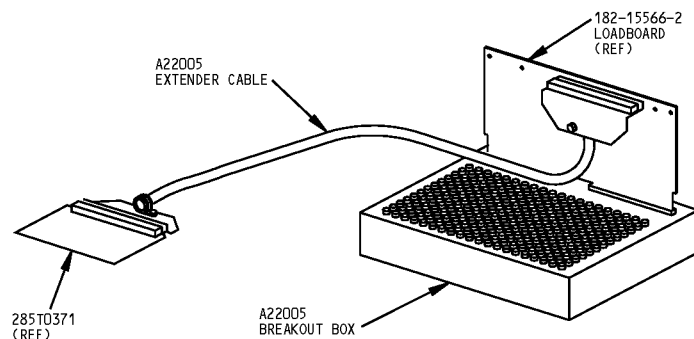
AIRPLANE MAINTENANCE: NO

COMPONENT MAINTENANCE: YES

USAGE & DESCRIPTION: This tool is used to test the Yaw Damper Monitor Receiver PCA. Refer to CMM 22-21-70 for further usage instructions. The -1 test box and -9 extender cable are used together for 767-200 and -300 airplanes only

WEIGHT: 5 lbs (2.3 kg)

DIMENSIONS: 3 x 14 x 17 inches (76 x 356 x 432 mm)



PCA ATS Loadboard Yaw Damper Monitor Receiver Breakout Box
Figure 1

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Tool Numbering Example
Figure 1

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Part No.	Title	Subject
A28010-1, -2	SPANNER WRENCH - FUEL SUMP DRAIN VALVE	28-10-12
A28011-48, -49, -50	TEST EQUIPMENT - PRESSURE/LEAKAGE, FUEL LINES AND FITTINGS	28-20-03
A28012-1	SPANNER WRENCH - FUEL SUMP DRAIN VALVE	28-10-14
A28013-10, -11	ADAPTER EQUIPMENT - AIR SUPPLY, SURGE TANK	28-10-16
A29001-1	HOIST ADAPTER - AIR-DRIVEN HYDRAULIC PUMP	29-00-01
A29002-6	LOCKING PIN - VALVE, HYDRAULIC RESERVOIR PRESSURIZATION SHUTOFF	29-00-02
A29003-49	TOOL SET - HYDRAULIC FILTER OVERHAUL	29-10-01
A29004-1	TOOL SET - HYDRAULIC FILTER MODULE OVERHAUL	29-10-02
A29005-1	SEALING CAP - PRESSURE TRANSMITTER MOUNT	29-30-01
A29006-19	TEST BOX - PRESSURE/THERMAL SWITCH	29-30-02
A30002-1	PLUG EQUIPMENT - THERMAL ANTI-ICING DUCT, WING PRESSURE SWITCH TEST	30-10-01
A30003-1	BREAKOUT BOX - VIEWPORT HEATER	30-40-03
A31003-33, -34	TEST BOX - WARNING ELECTRONICS UNIT (WEU) POWER SUPPLY	31-50-02
A31004-1	BREAKOUT BOX - WARNING ELECTRONICS UNIT POWER SUPPLY AND MONITOR	31-50-04
A31005-1, -14	TEST BOX - WEU POWER SUPPLY NOISE	31-50-01
A31006-7	SHORTING MODULE - MASTER WARNING PRINTED CIRCUIT ASSEMBLY	31-50-03
A31007-1, -30, -49, -59	ADAPTER CABLE - DIGITAL FLIGHT RECORDER SYSTEM TESTER	31-30-01
A31008-1	TEST CABLE - WEU POWER SUPPLY	31-00-01
A31010-1	BREAKOUT BOX - POWER SUPPLY UNIT, WEU	31-00-02
A32001-1	BRAKE DISCONNECT ASSEMBLY - FLIGHT DISPATCH	32-40-03
A32002-14	SPRING EXTENDER - DRAG STRUT, MAIN LANDING GEAR (MLG)	32-10-01
A32003-1	SPRING COMPRESSOR - SIDE STRUT, MAIN LANDING GEAR (MLG)	32-10-03
A32004-1, -4, -5	WRENCH ADAPTER - GLAND NUT, MAIN LANDING GEAR (MLG)	32-30-01
A32005-54	REPLACEMENT EQUIPMENT - SEAL, LOWER BEARING, MAIN LANDING GEAR (MLG)	32-10-05
A32006-75, -77	SLING EQUIPMENT - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)	32-10-06
A32007-17	PROTECTOR EQUIPMENT - AXLE AND AXLE THREAD, MAINLANDING GEAR (MLG)	32-10-07
A32008-51, -53	SLING EQUIPMENT - MAIN LANDING GEAR (MLG) COMPONENTS	32-10-11
A32010-1	PIN PULLER - RETRACT ACTUATOR, MAIN LANDING GEAR (MLG)	32-10-08
A32011-1	PULLER - TRUNNION PINS, NOSE LANDING GEAR	32-20-01
A32012-6, -9, -12, -13	WRENCH - WHEEL RETAINING NUT, MAIN LANDING GEAR (MLG)	32-10-09
A32013-1	PIN PULLER - UPPER DRAG BRACE, NOSE LANDING GEAR	32-20-02

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PART NUMBER: A32011-1

PULLER - TRUNNION PINS, NOSE LANDING GEAR

NAME:

PULLER - TRUNNION PINS, NOSE LANDING GEAR

AIRPLANE MAINTENANCE:

YES

COMPONENT MAINTENANCE:

NO

USAGE & DESCRIPTION:

The A32011-1 pin puller is used on all 767 airplanes. A32011 is used for removal or installation of the mounting pins in the nose landing gear shock strut assembly. A32011-1 consists of an A32011-2 puller assembly contained in a storage box.

WEIGHT:

24lbs. (11kgs)

DIMENSIONS:

8 x 10 x 24 inches (203 X 254 X 599 mm)

Nose Landing Gear Trunnion Pins Puller

Figure 1 (Sheet 1 of 3)

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Tool Location Example

Figure 2

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