

CHAPTER

38

WATER/WASTE



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

CHAPTER 38
WATER/WASTE

| Subject/Page | Date | Subject/Page | Date | Subject/Page | Date |
|--------------------|-------------|-----------------|-------------|--------------|------|
| 38-EFFECTIVE PAGES | | 38-30-07 (cont) | | | |
| 1 | Feb 05/2016 | 2 | Aug 05/2014 | | |
| 2 | BLANK | 38-30-08 | | | |
| 38-CONTENTS | | 1 | Aug 05/2014 | | |
| O 1 | Feb 05/2016 | 2 | Aug 05/2014 | | |
| 2 | BLANK | 38-30-09 | | | |
| 38-10-01 | | 1 | Aug 05/2015 | | |
| R 1 | Feb 05/2016 | 2 | Aug 05/2015 | | |
| 2 | Aug 05/2014 | 38-30-10 | | | |
| 3 | Aug 05/2014 | 1 | Aug 05/2015 | | |
| 4 | BLANK | 2 | Aug 05/2015 | | |
| 38-30-01 | | 3 | Aug 05/2015 | | |
| 1 | Aug 05/2014 | 4 | Aug 05/2015 | | |
| 2 | Aug 05/2014 | 5 | Aug 05/2015 | | |
| 3 | Aug 05/2014 | 6 | Aug 05/2015 | | |
| 4 | Aug 05/2014 | 7 | Aug 05/2015 | | |
| 38-30-02 | | 8 | Aug 05/2015 | | |
| 1 | Aug 05/2014 | 38-30-11 | | | |
| 2 | Aug 05/2014 | 1 | Aug 05/2014 | | |
| 38-30-03 | | 2 | Aug 05/2014 | | |
| R 1 | Feb 05/2016 | 3 | Aug 05/2014 | | |
| 2 | Aug 05/2014 | 4 | BLANK | | |
| 38-30-04 | | 38-30-15 | | | |
| 1 | Aug 05/2015 | R 1 | Feb 05/2016 | | |
| 2 | Aug 05/2015 | R 2 | Feb 05/2016 | | |
| 3 | Aug 05/2015 | 3 | Aug 05/2015 | | |
| 4 | Aug 05/2015 | 4 | Aug 05/2015 | | |
| 5 | Aug 05/2015 | R 5 | Feb 05/2016 | | |
| 6 | BLANK | R 6 | Feb 05/2016 | | |
| 38-30-05 | | 7 | Aug 05/2015 | | |
| 1 | Aug 05/2014 | 8 | BLANK | | |
| 2 | Aug 05/2014 | | | | |
| 38-30-06 | | | | | |
| 1 | Aug 05/2014 | | | | |
| 2 | Aug 05/2014 | | | | |
| 38-30-07 | | | | | |
| 1 | Aug 05/2014 | | | | |

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

38-EFFECTIVE PAGES



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

CHAPTER 38
WATER/WASTE

| <u>SUBJECT</u> | <u>TITLE</u> | <u>PART NO.</u> |
|-----------------------|--|--------------------------------------|
| 38 | WATER/WASTE | |
| 38-10-01 | TEST CABLE - POTABLE WATER QUANTITY TRANSMITTER | A38010-11, -45 |
| 38-30-01 | BLOCKAGE REMOVAL TOOL - VACUUM LAVATORY SYSTEM | G38004-10, -13 |
| 38-30-02 | BLOCKAGE REMOVER - VACUUM TOILET | A38003-20, -30 |
| 38-30-03 | PLUG - VACUUM WASTE SYSTEM | A38007-9 |
| 38-30-04 | VACUUM TEST EQUIPMENT - VACUUM WASTE SYSTEM | A38001-16, -22, -68 |
| 38-30-05 | CLEANER - LAVATORY WASTE TANK | A38009-11 |
| 38-30-06 | BLOCKAGE REMOVAL EQUIPMENT - VACUUM WASTE SYSTEM | G38006-1 |
| 38-30-07 | DRAIN MAST PLUG - WASTE WATER | C38001-23, -29 |
| 38-30-08 | TESTER - TOILET VACUUM | A38006-1, -19 |
| 38-30-09 | PLUG EQUIPMENT - SKIN FITTING, DOOR SILL DRAIN | C38002-1 |
| 38-30-10 | PUMP EQUIPMENT - VACUUM LAVATORY SYSTEM | A38012-1, -18, -31, -32, -39, -40 |
| 38-30-11 | INSTALLATION ASSEMBLY - SLEEVE, WASTE TANK | C38003-1 |
| 38-30-15 | PUMP EQUIPMENT - VACUUM LAVATORY SYSTEM | J38004-232, -247 |

38-CONTENTS



**737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

PART NUMBER: A38010-11, -45

NAME: TEST CABLE - POTABLE WATER QUANTITY TRANSMITTER

AIRPLANE MAINTENANCE: YES

AMM 38-14-01

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A38010-11 (option) and A38010-45 (preferred) potable water quantity transmitters are used on 737-600 thru -900 airplanes.

A38010 is used to provide electrical access to the water tank quantity transmitter for calibration, using a customer furnished voltmeter.

Refer to the current A38010 tool drawing and AMM 38-14-01 for complete usage instructions,

The A38010-11 and -45 potable water quantity transmitter consist of:

| A38010-11 | | |
|-----------|----------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | CABLE ASSEMBLY | A38010-14 |
| 1 | STORAGE BOX | |

| A38010-45 | | |
|-----------|----------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | CABLE ASSEMBLY | A38010-14 |
| 1 | STORAGE BOX | |

WEIGHT: 10 lbs (5 kg)

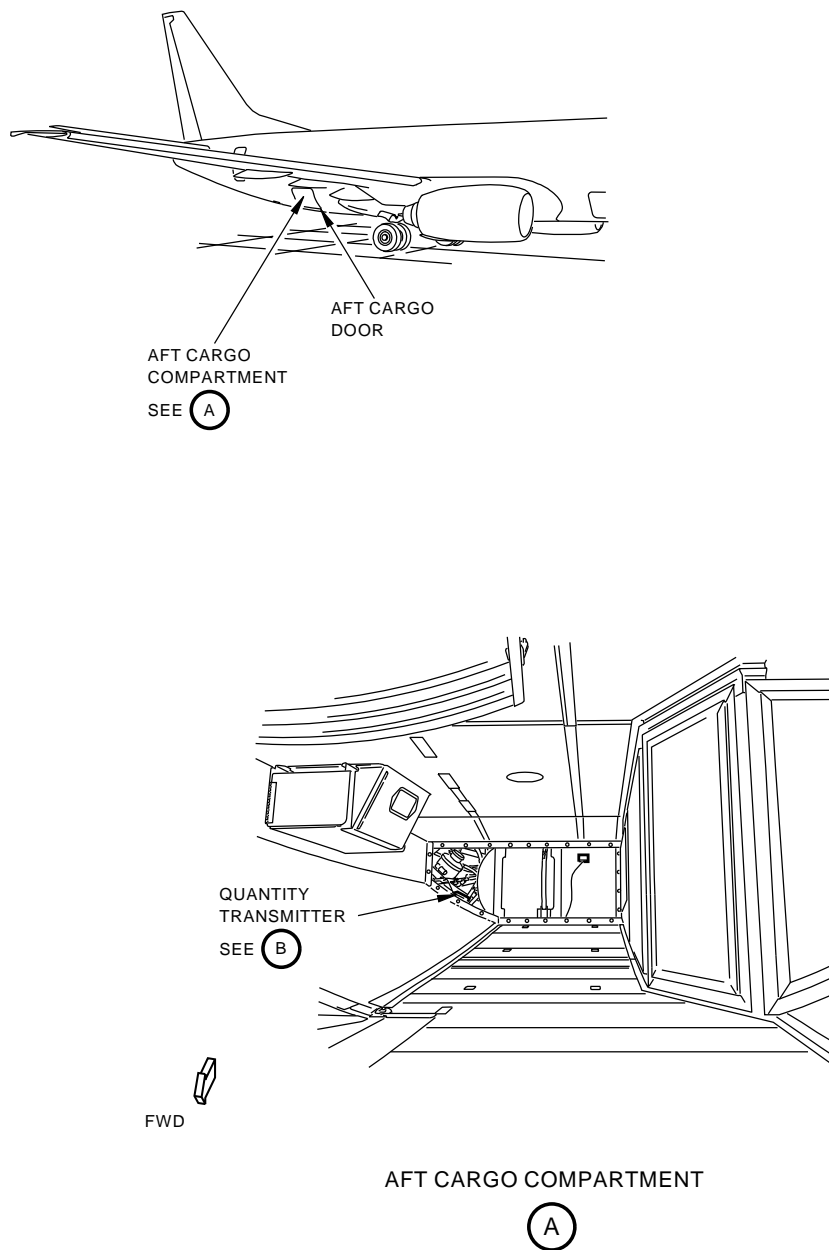
DIMENSIONS: 16 x 13 x 7 inches (406 x 330 x 178 mm)

NOTE: A38010-45 replaces A38010-11 for future procurement.

38-10-01



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



H60290 S0006831961_V2

Water Quantity Transmitter Location
Figure 1

38-10-01

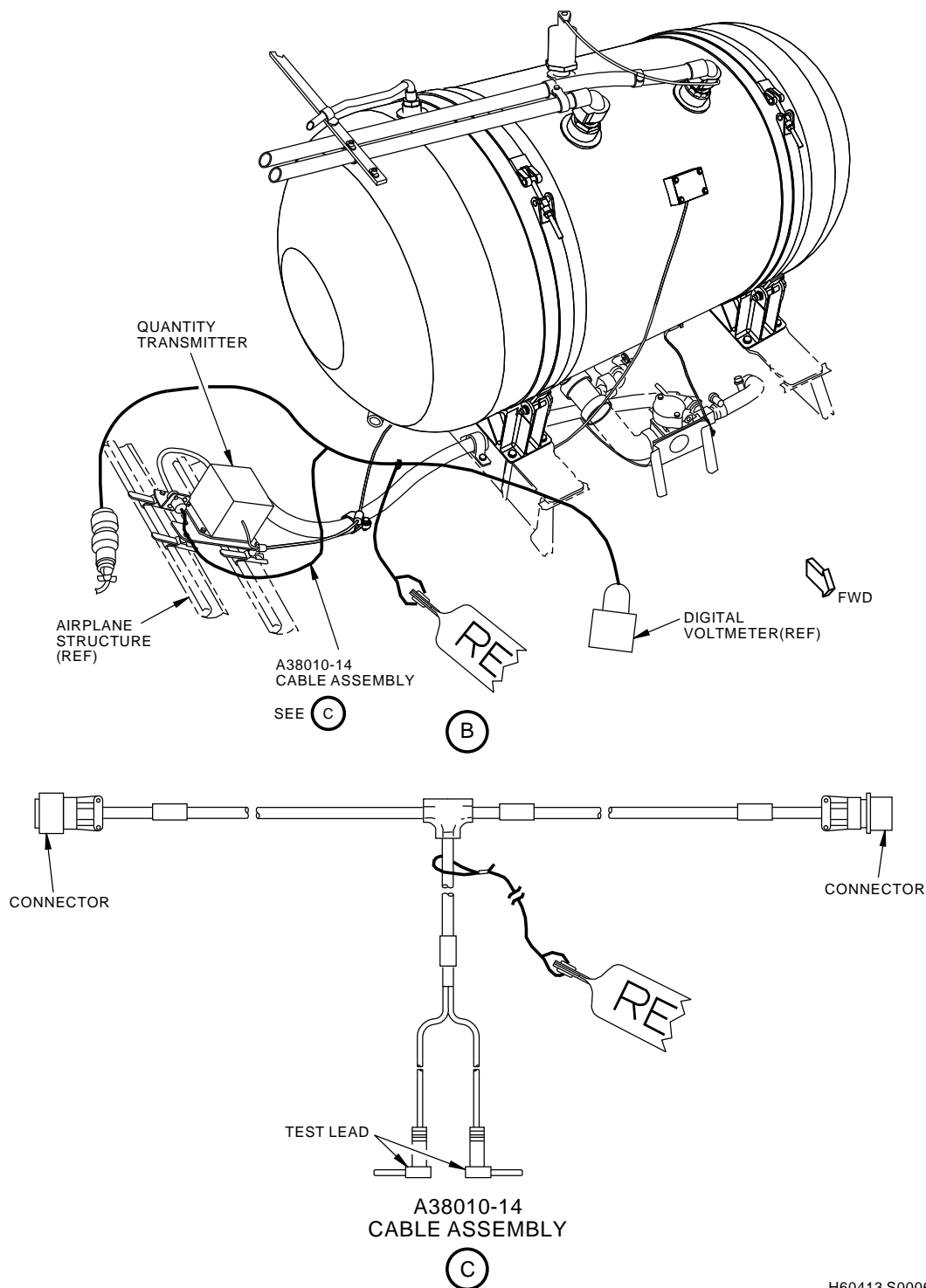
D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

Page 2
Aug 05/2014



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



H60413 S0006831962_V3

Water Quantity Transmitter Test Cable
Figure 2

38-10-01



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: G38004-10, -13

NAME: BLOCKAGE REMOVAL TOOL - VACUUM LAVATORY SYSTEM

AIRPLANE MAINTENANCE: YES

AMM 38-32-00

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The G38004-10 or -13 (preferred) blockage removal tool is used on 737-600 thru -900 airplanes.

G38004 is used to clear blockages in the 2-inch plumbing of the vacuum lavatory system. G38004 is used by clamping it to the end of a waste line and pressurized either by hand or shop air. The pressure is then released against the water and blockage filling the waste line. G38004 is not for use on the toilets or the 4-inch lavatory service plumbing.

Refer to the current G38004 drawing and AMM 38-32-00 for complete usage instructions.

G38004-10 and -13 consist of:

| G38004-10 | | |
|-----------|--------------------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | BLOCKAGE REMOVAL TOOL ASSEMBLY | G38004-11 |
| 1 | STORAGE BOX | |

| G38004-13 | | |
|-----------|--------------------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | BLOCKAGE REMOVAL TOOL ASSEMBLY | G38004-14 |
| 1 | STORAGE BOX | |

WEIGHT: G38004-10 - 12 lbs (5.4 kg)
G38004-13 - 14 lbs (6.4 kg)

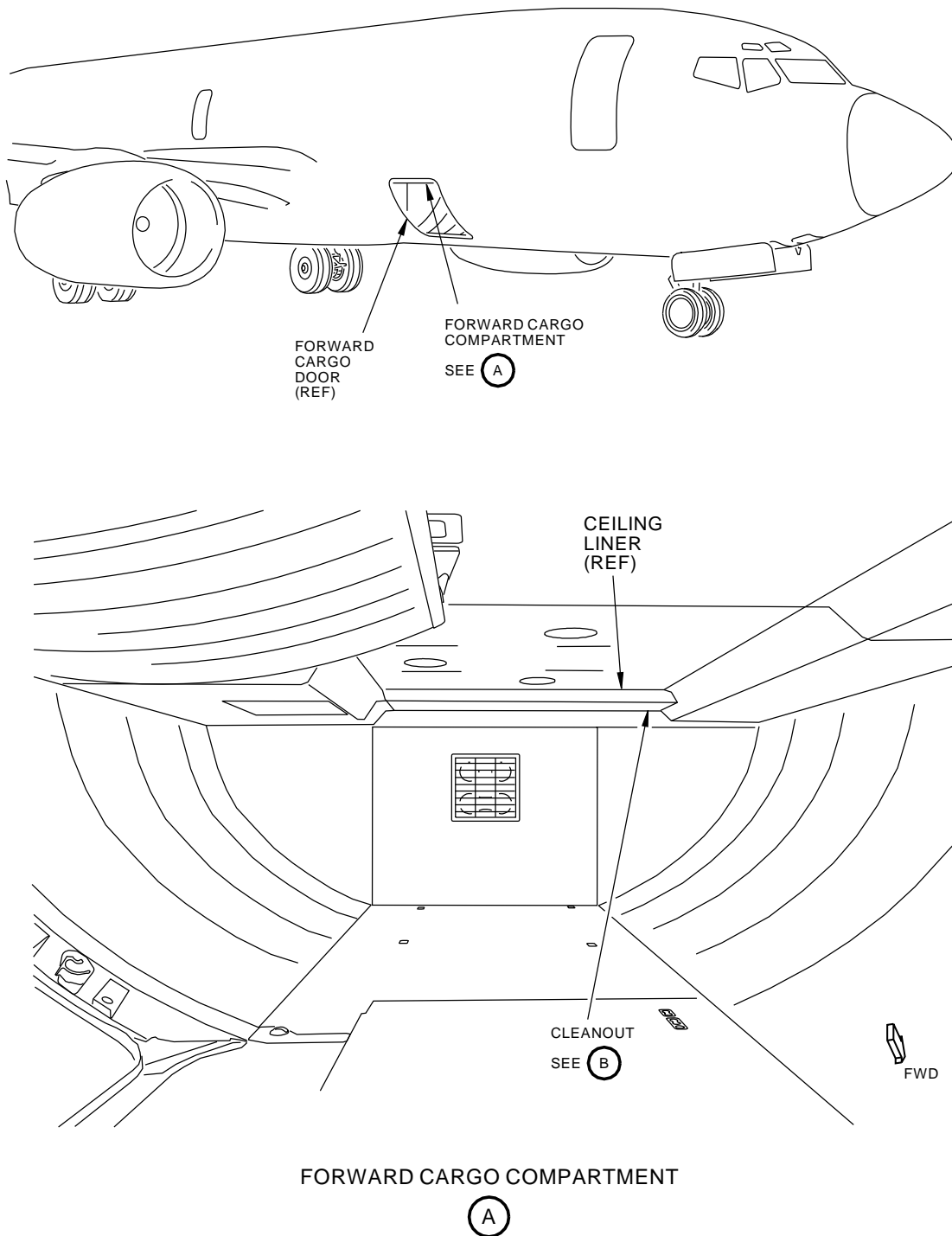
DIMENSIONS: G38004-10 - 33 x 10 x 16 inches (838 x 254 x 406 mm)
G38004-13 - 33 x 17 x 16 inches (838 x 432 x 406 mm)

NOTE: G38004-13 replaces G38004-10 for future procurement.
G38004-10 supersedes G38004-6.

38-30-01



**737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



1342860 S0000238846_V2

**Vacuum Lavatory System Blockage Removal Tool
Figure 1 (Sheet 1 of 3)**

38-30-01

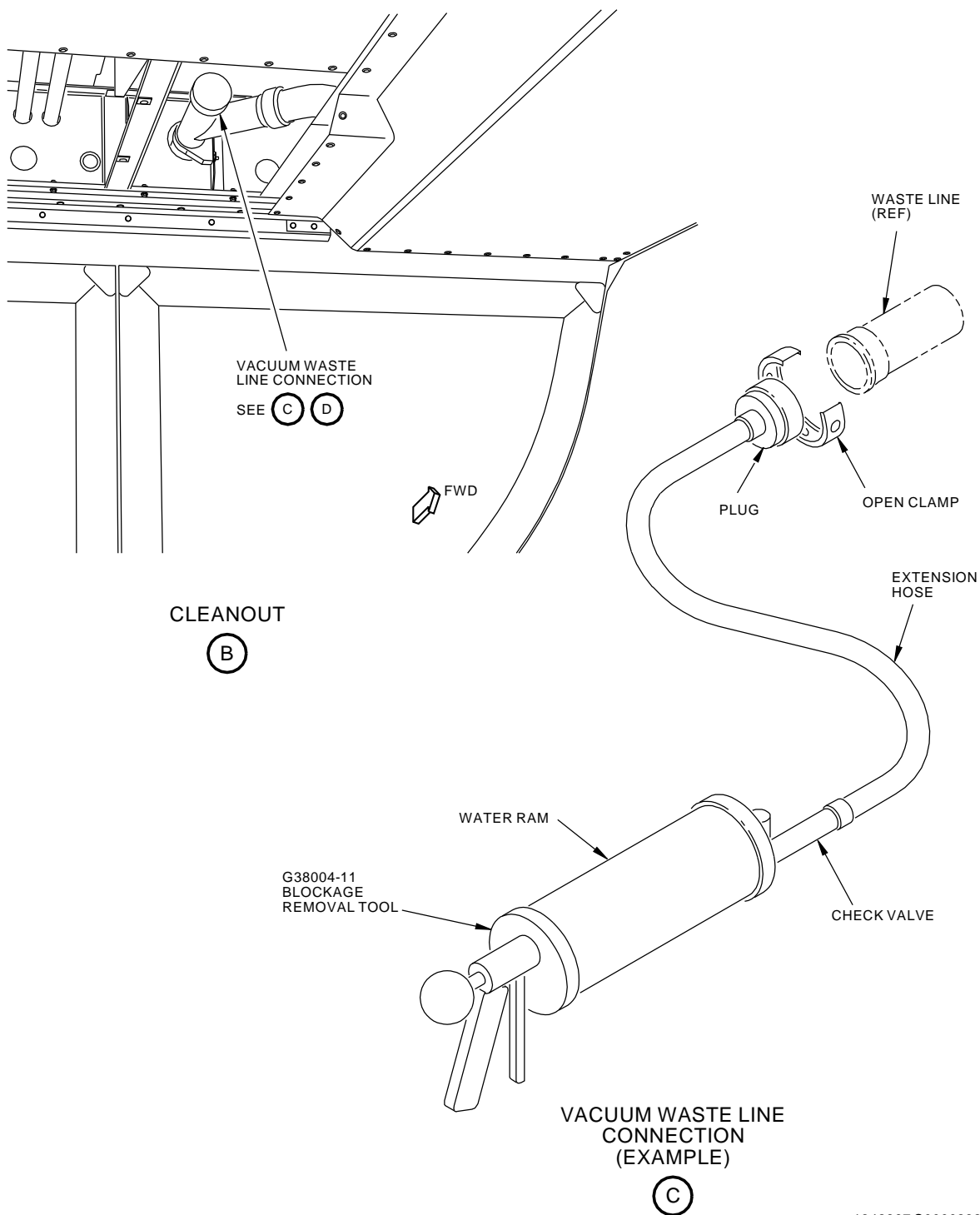
D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

Page 2
Aug 05/2014



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



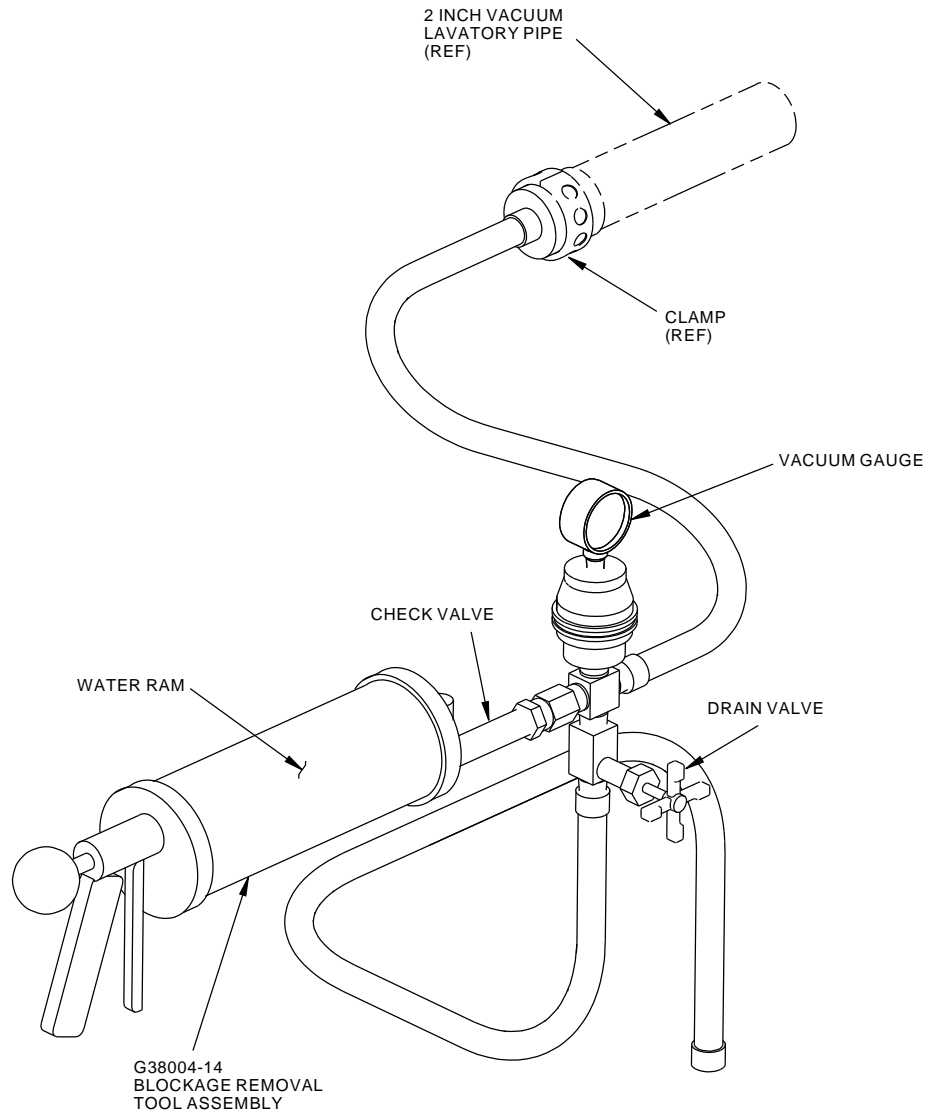
1342867 S0000238848_V2

Vacuum Lavatory System Blockage Removal Tool
Figure 1 (Sheet 2 of 3)

38-30-01



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



VACUUM WASTE LINE CONNECTION

(D)

1342869 S0000238849_V2

Vacuum Lavatory System Blockage Removal Tool
Figure 1 (Sheet 3 of 3)

38-30-01

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

Page 4
Aug 05/2014



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A38003-20, -30

NAME: BLOCKAGE REMOVER - VACUUM TOILET

AIRPLANE MAINTENANCE: YES

AMM 38-32-00

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A38003-20 or -30 (preferred) blockage remover is used on all 737-600 thru -900 airplanes.

A38003 is used for removing an obstruction between the toilet bowl and the diaphragm valve.

Refer to the current A38003 drawing and AMM 38-32-00 for complete usage instructions.

A38003-20 and -30 consist of:

| A38003-20 | | |
|-----------|------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | REMOVAL ASSEMBLY | A38003-21 |
| 1 | STORAGE BOX | |

| A38003-30 | | |
|-----------|------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | REMOVAL ASSEMBLY | A38003-31 |
| 1 | STORAGE BOX | |

WEIGHT: A38003-20 or -30 - 4 lbs (2 kg)

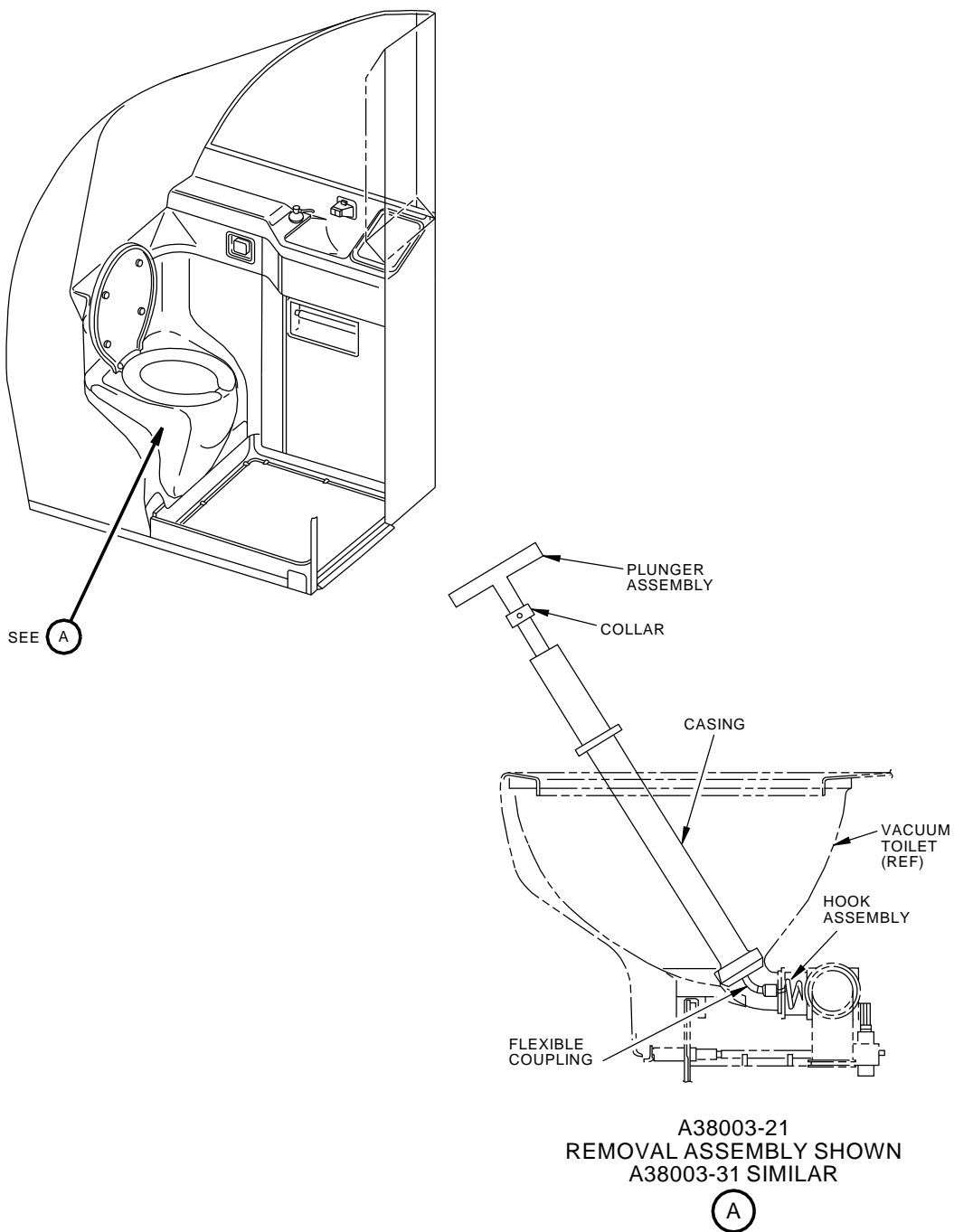
DIMENSIONS: A38003-20 or -30 - 27 x 5 x 3 inches (686 x 127 x 76 mm)

NOTE: A38003-30 replaces A38003-20 for future procurement.
A38003-20 supersedes A38003-14.

38-30-02



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



F89569 S0006831967_V4

Vacuum Toilet Blockage Remover
Figure 1

38-30-02



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A38007-9

NAME: PLUG - VACUUM WASTE SYSTEM

AIRPLANE MAINTENANCE: YES

AMM 38-32-01

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A38007-9 plug is used on all 737-600 thru -900 airplanes.

A38007 is used to plug the vacuum waste line when a toilet is removed for repairs.

Refer to the current A38007 drawing and AMM 38-32-01 for complete usage instructions.

A38007-9 consists of:

| A38007-9 | | |
|----------|---------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | PLUG ASSEMBLY | A38007-10 |
| 1 | STORAGE BOX | |

WEIGHT: 1 lb (0.45 kg)

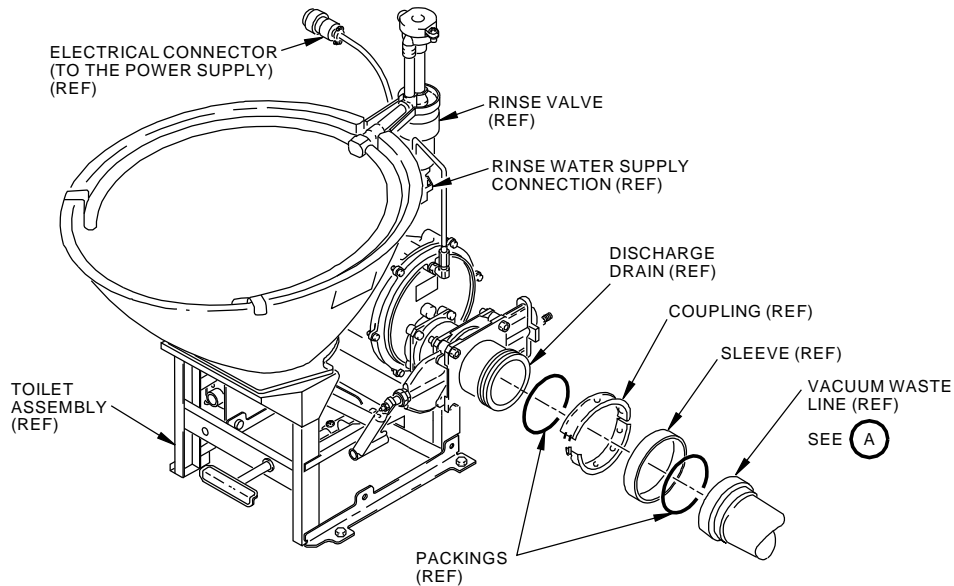
DIMENSIONS: 3 x 3 x 2 inches (76 x 76 x 51 mm)

NOTE: A38007-9 supersedes A38007-1.

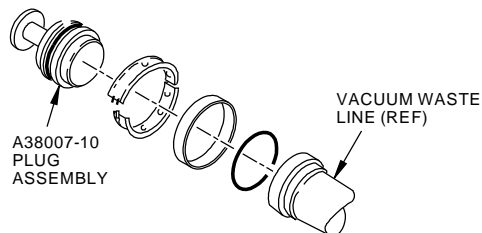
38-30-03



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



TOILET ASSEMBLY



VACUUM WASTE LINE

(A)

M53291 S0006831969_V6

Vacuum Waste System Plug Usage
Figure 1

38-30-03

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A38001-16, -22, -68

NAME: VACUUM TEST EQUIPMENT - VACUUM WASTE SYSTEM

AIRPLANE MAINTENANCE: YES

AMM 38-32-00

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A38001-16 (option) or A38001-22 (preferred) plug equipment and the A38001-68 vacuum source are used on all 737 airplanes except 737-100 thru -500 airplanes.

The A38001-16 or -22 plug equipment consists of plugs for the vacuum waste lines that connect to the inlet and outlet of the vacuum blower and vent nozzle plug assembly. A38001-16 or -22 plugs the vacuum waste system and provides a connection for leak detection equipment.

The A38001-68 vacuum source provides the vacuum required for the leak detection.

Refer to AMM 38-32-00 and the current A38001 drawing for complete usage instructions.

A38001-16, -22 and -68 consist of:

| A38001-16 PLUG EQUIPMENT | | |
|--------------------------|--------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | OUTLET PLUG | A38001-2 |
| 1 | PLUG | A38001-3 |
| 1 | VENT PLUG ASSEMBLY | A38001-4 |
| 1 | STORAGE BOX | |

| A38001-22 PLUG EQUIPMENT | | |
|--------------------------|--------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | OUTLET PLUG | A38001-2 |
| 1 | PLUG | A38001-3 |
| 1 | VENT PLUG ASSEMBLY | A38001-4 |
| 1 | STORAGE BOX | |

| A38001-68 VACUUM SOURCE | | |
|-------------------------|----------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | HOSE ASSEMBLY | A38001-26 |
| 1 | CONTROL BOX ASSEMBLY | A38001-69 |
| 1 | STORAGE BOX | |

WEIGHT: A38001-16 or -22 - 11 lbs (5 kg)
A38001-68 - 25 lbs (11 kg)

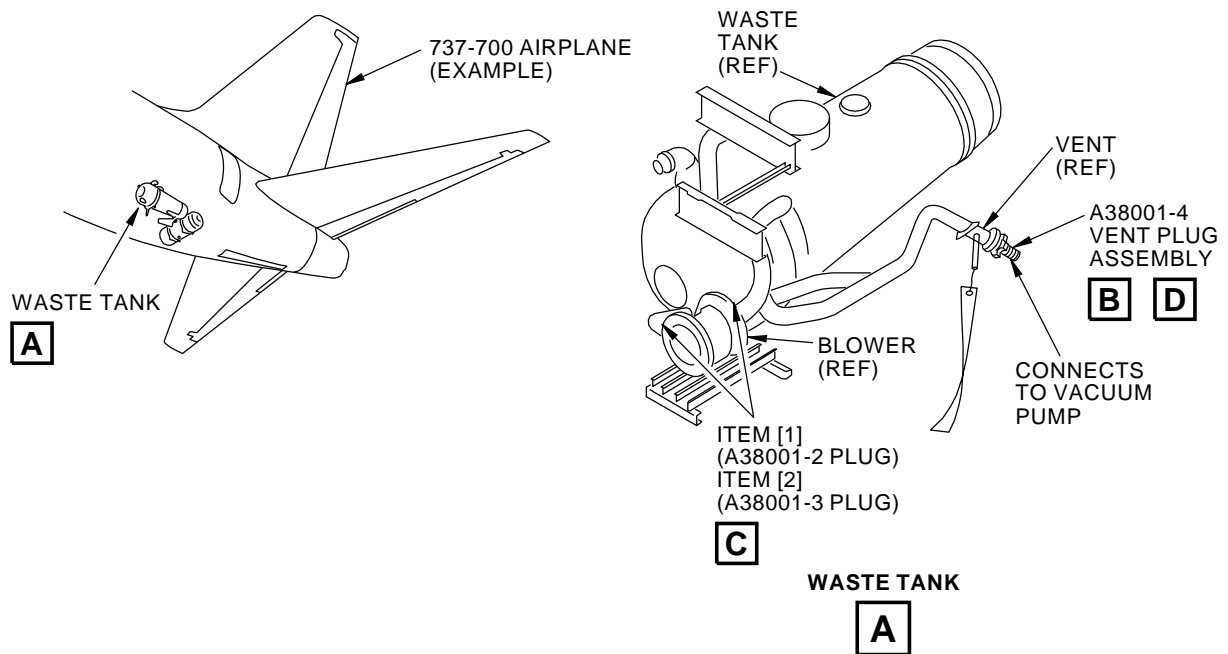
38-30-04



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

DIMENSIONS: A38001-16 or -22 - 15 x 9 x 5 inches (381 x 229 x 127 mm)
A38001-68 - 14 x 14 x 19 inches (356 x 356 x 483 mm)

NOTE: A38001-22 replaces A38001-16 for future procurement.
A38001-68 supersedes A38001-25.



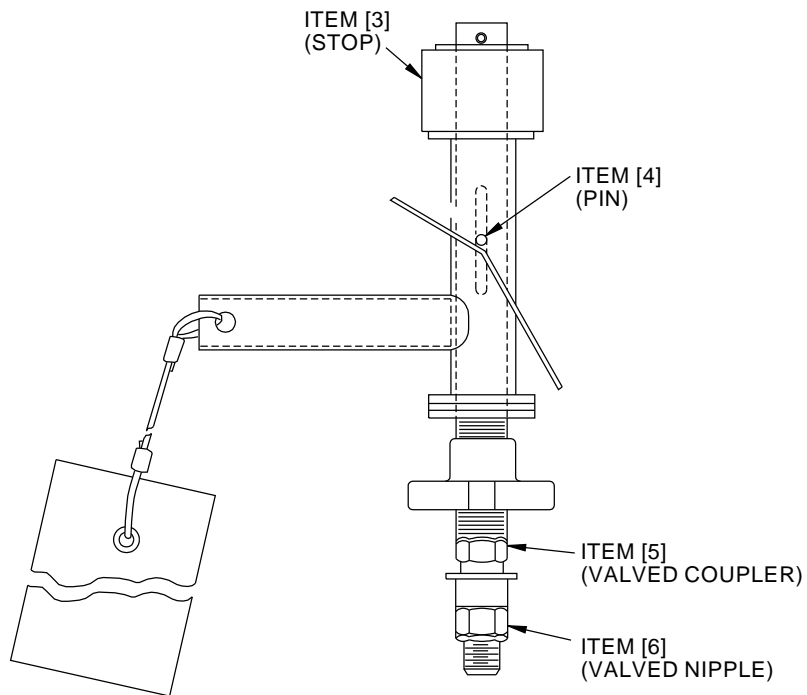
M51506 S0006831971_V4

Vacuum Waste System Vent Plugs
Figure 1

38-30-04

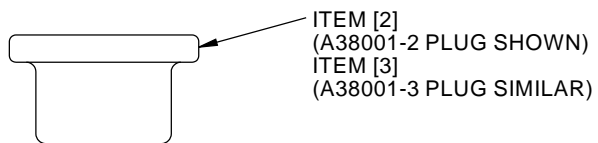


737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



A38001-4
VENT PLUG

B



C

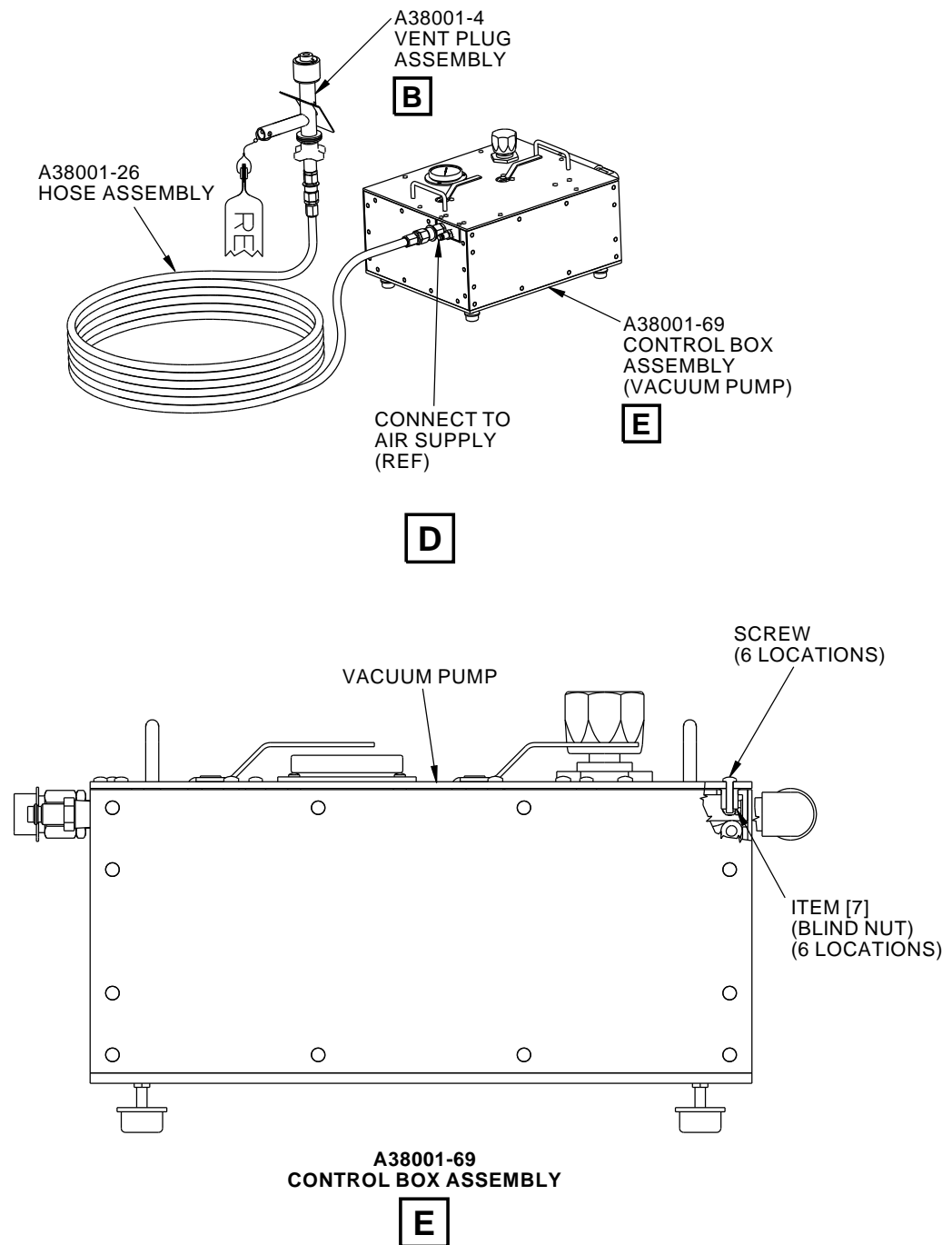
M51507 S0006831972_V5

Vacuum Waste System Vent Plug Components
Figure 2 (Sheet 1 of 2)

38-30-04



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



1342912 S0000238834_V3

Vacuum Waste System Vent Plug Components
Figure 2 (Sheet 2 of 2)

38-30-04



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

| REPAIRABLE/REPLACEABLE PARTS | | | |
|------------------------------|--------------|----------------|-------------|
| ITEM NUMBER | PART NUMBER | NOMENCLATURE | VENDOR CODE |
| [1] | A38001-3 | INLET PLUG | --- |
| [2] | A38001-2 | OUTLET PLUG | --- |
| [3] | A38001-15 | STOP | --- |
| [4] | MS16562-234 | SPRING PIN | --- |
| [5] | VEAC6-6M | VALVED COUPLER | 78357 |
| [6] | VEAN6-6M | VALVED NIPPLE | 78357 |
| [7] | 301030A-8-32 | BLIND NUT | 51506 |

38-30-04



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A38009-11

NAME: CLEANER - LAVATORY WASTE TANK

AIRPLANE MAINTENANCE: YES

AMM 38-32-07

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A38009-11 cleaner is used on 737-600 thru -900 airplanes.

A38009 is mounted on the vacuum waste tank in place of one of the waste tank rinse nozzles and delivers cleaning water to the inside of the waste tank. The part of A38009 located inside of the waste tank contains a rotating nozzle, the other end attaches to the service truck rinse hose.

Refer to the current A38009 drawing and AMM 38-32-07 for complete usage instructions.

A38009-11 consists of:

| A38009-11 | | |
|-----------|---------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | HOSE ASSEMBLY | A38009-12 |
| 1 | STORAGE BOX | |

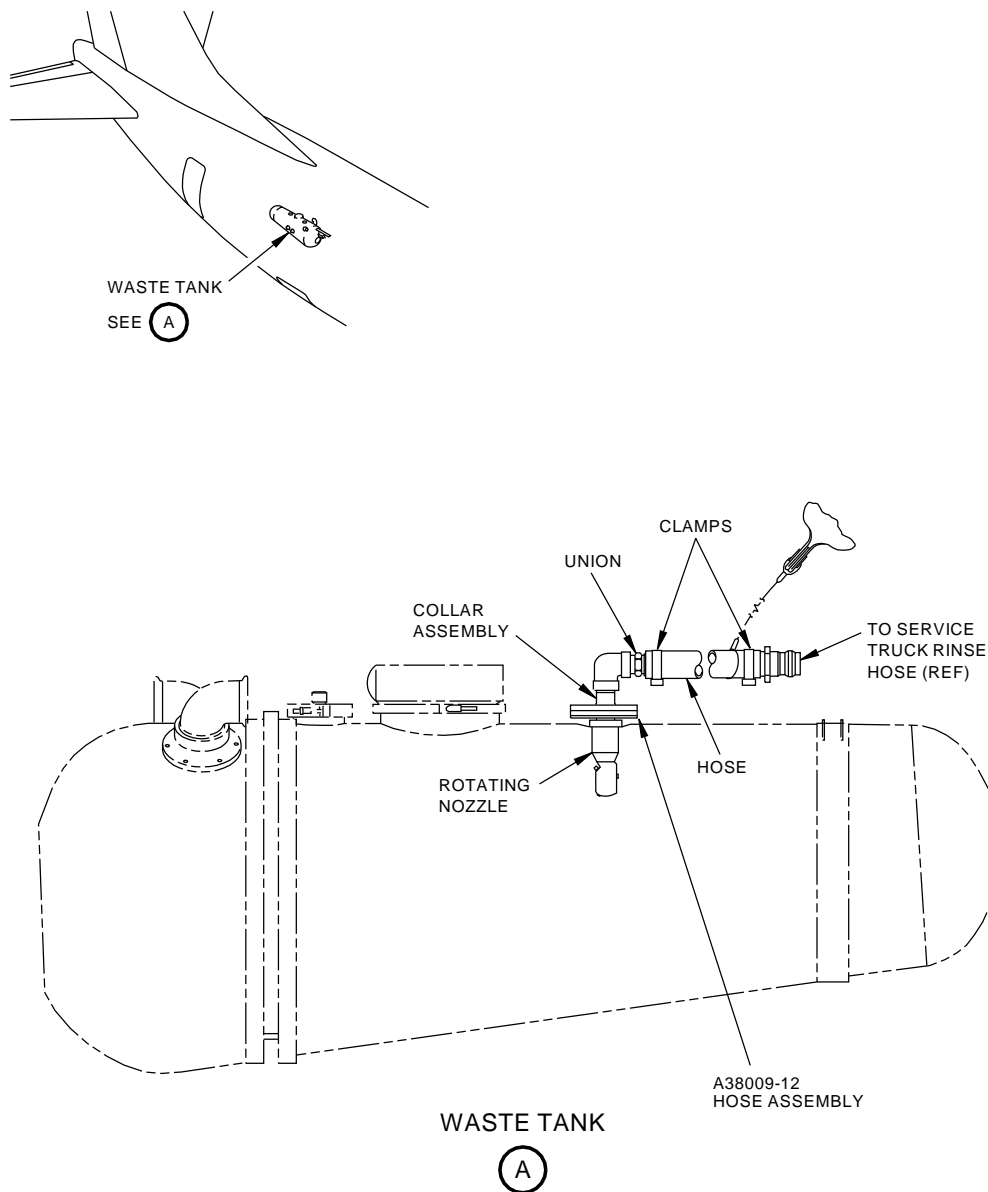
WEIGHT: 20 lbs (9 kg)

DIMENSIONS: 16 x 14 x 5 inches (406 x 356 x 127 mm)

38-30-05



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



F91771 S0006831974_V3

Lavatory Waste Tank Cleaner
Figure 1

38-30-05

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

Page 2
Aug 05/2014



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: G38006-1

NAME: BLOCKAGE REMOVAL EQUIPMENT - VACUUM WASTE SYSTEM

AIRPLANE MAINTENANCE: YES

AMM 38-32-00

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The G38006-1 vacuum waste blockage removal tool is used on 737-600 thru -900 airplanes.

G38006 is used to clear blockages between the service panel and the waste tank in the vacuum waste system. The discharge hose attaches to the service panel at one end and the lavatory service truck at the other end. The discharge hose is clamped off and air is supplied to the hose to dislodge the blockage.

Refer to the current G38006 drawing and AMM 38-32-00 for complete usage instructions.

G38006-1 consists of:

| G38006-1 | | |
|----------|-----------------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | HOSE ADAPTER ASSEMBLY | G38006-2 |
| 1 | PRESSURE REGULATOR ASSEMBLY | G38006-3 |
| 1 | AIR HOSE ASSEMBLY | G38006-4 |
| 1 | STORAGE BOX | |

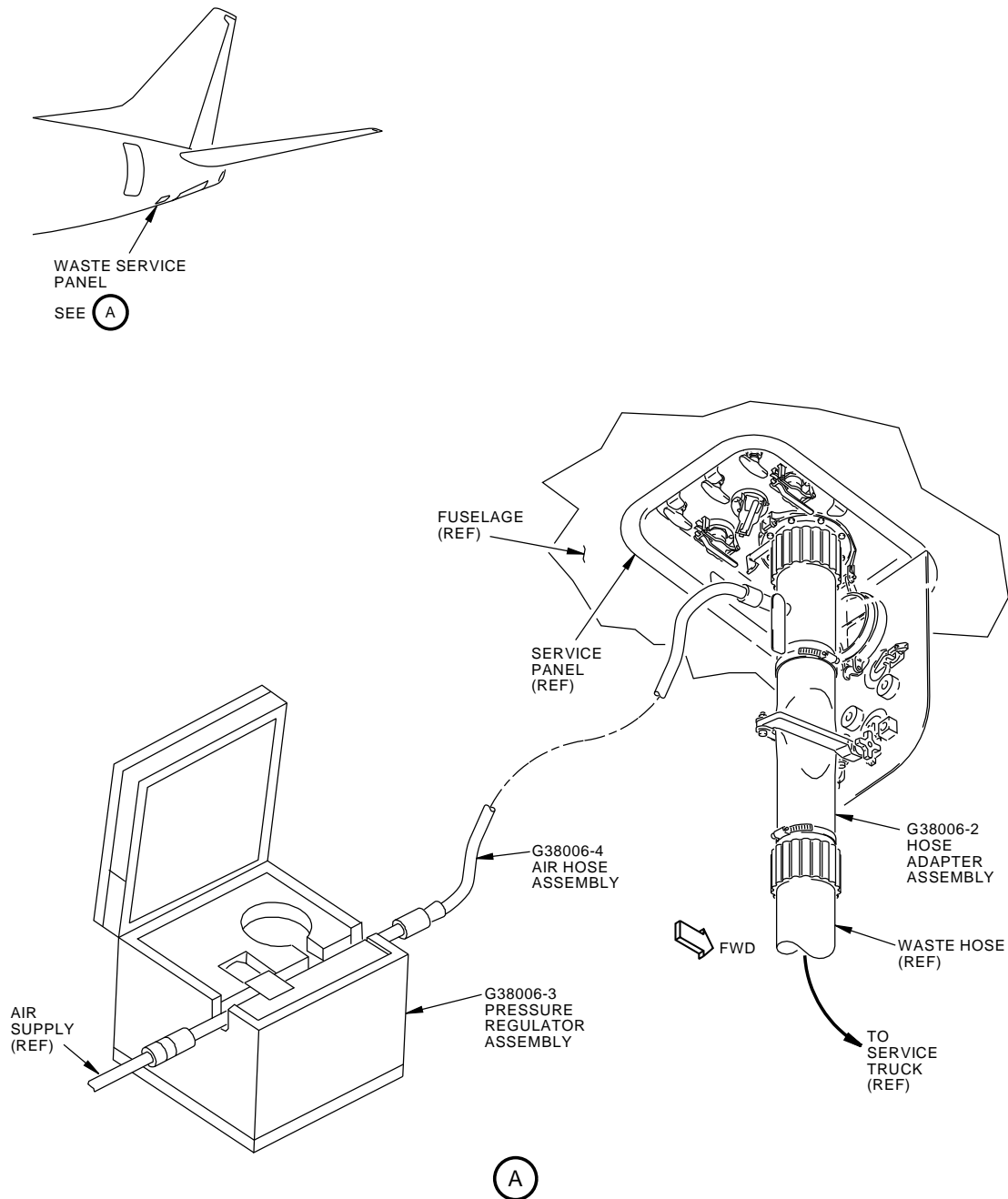
WEIGHT: 10 lbs (4.5 kg)

DIMENSIONS: 12 x 24 x 33 inches (305 x 607 x 838 mm)

38-30-06



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



G84778 S0006831976_V3

Vacuum Waste System Blockage Removal Equipment
Figure 1

38-30-06



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: C38001-23, -29

NAME: DRAIN MAST PLUG - WASTE WATER

AIRPLANE MAINTENANCE: YES

AMM 38-10-00, AMM 38-31-00

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The C38001-23 or -29 (preferred) waste water drain mast plug is used on all 737 airplanes.

C38001 is not used on 737-100 thru -500 airplanes with the 60B50000-3/-5 forward drain masts. 737-100 thru -500 airplanes with forward drain masts 60B50000-3/-5, refer to tool part number TE65B50041.

C38001 is used to plug the forward and aft waste water drain masts during gray water drain system cleaning procedures.

Refer to the current C38001 drawing, AMM 38-10-00 and AMM 38-31-00 for complete usage instructions.

C38001-23 and -29 consists of:

| C38001-23 | | |
|-----------|--------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | MAST PLUG ASSEMBLY | C38001-24 |
| 1 | STORAGE BOX | |

| C38001-29 | | |
|-----------|--------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | MAST PLUG ASSEMBLY | C38001-30 |
| 1 | STORAGE BOX | |

WEIGHT: 5 lbs (2.3 kg)

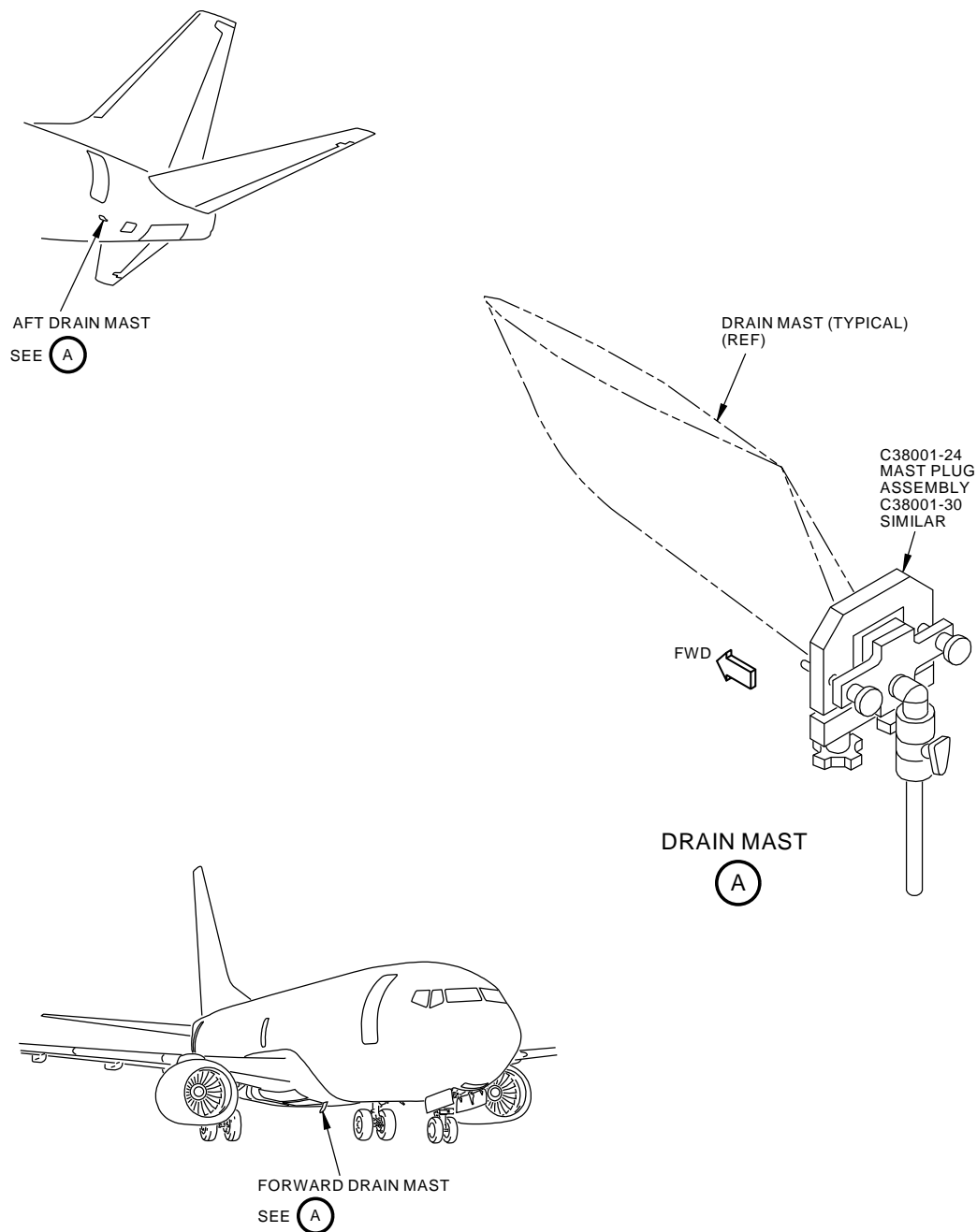
DIMENSIONS: 12 x 12 x 8 inches (305 x 305 x 203 mm)

NOTE: C38001-29 replaces C38001-23 for future procurement.
C38001-23 supersedes C38001-1.

38-30-07



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



G83262 S0006831978_V5

Waste Water Drain Mast Plug
Figure 1

38-30-07



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A38006-1, -19

NAME: TESTER - TOILET VACUUM

AIRPLANE MAINTENANCE: YES

AMM 38-32-00

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A38006-1 and -19 testers are used on 737-600 thru -900 airplanes. A38006-1 is used on airplanes equipped with Yokohama Rubber Company (YRC) lavatories. A38006-19 is used on airplanes equipped with B/E Aerospace lavatories. A38006 is used to determine the number of inches of vacuum in the toilet vacuum lines for vacuum line troubleshooting. Refer to the current A38006 drawing and AMM 38-32-00 for complete usage instructions. A38006-1 and -19 consist of:

| A38006-1 | | |
|----------|-----------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | TESTER ASSEMBLY | A38006-2 |
| 1 | STORAGE BOX | |

| A38006-19 | | |
|-----------|-----------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | TESTER ASSEMBLY | A38006-20 |
| 1 | STORAGE BOX | |

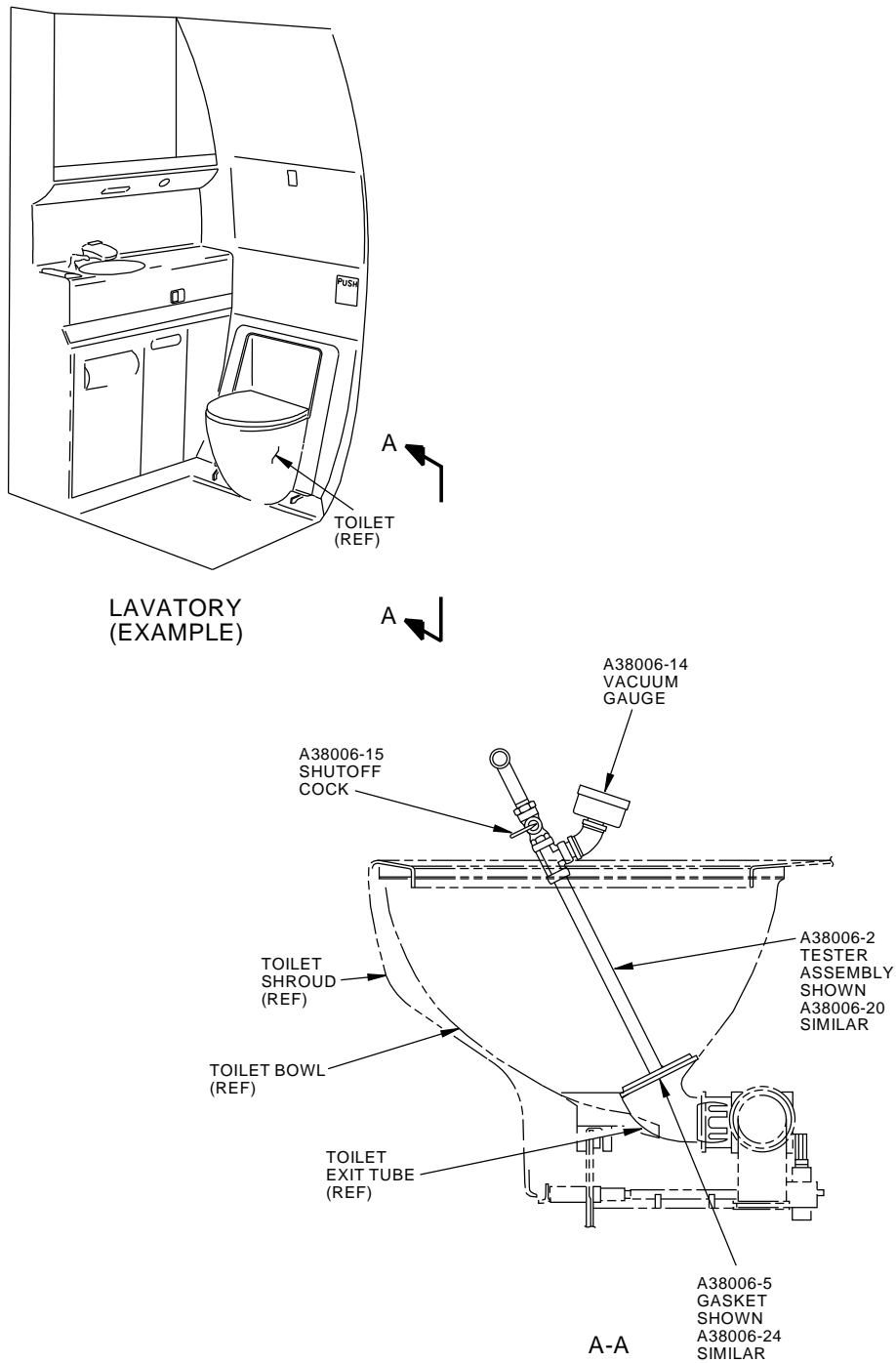
WEIGHT: A38006-1 - 3 lbs (1.4 kg)
A38006-19 - 4 lbs (1.8 kg)

DIMENSIONS: A38006-1 - 6 x 6 x 17 inches (152 x 152 x 432 mm)
A38006-19 - 12 x 6 x 17 inches (305 x 152 x 432 mm)

38-30-08



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



1342872 S0000238839_V2

Toilet Vacuum Tester
Figure 1

38-30-08

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: C38002-1

NAME: PLUG EQUIPMENT - SKIN FITTING, DOOR SILL DRAIN

AIRPLANE MAINTENANCE: YES

AMM 38-31-00

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The C38002-1 plug equipment is used on all 737 airplanes, except 737-100 thru -500 airplanes.

C38002 is used to plug the door sill drains at Sta 300.0, 307.00, 953.8 and 972.0 for cleaning.

Refer to AMM 38-31-00 and the current C38002 drawing for complete usage instructions.

C38002-1 consists of:

| C38002-1 | | |
|----------|--------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | PLUG ASSEMBLY | C38002-2 |
| 3 | PIPE PLUG ASSEMBLY | C38002-11 |
| 1 | STORAGE BOX | |

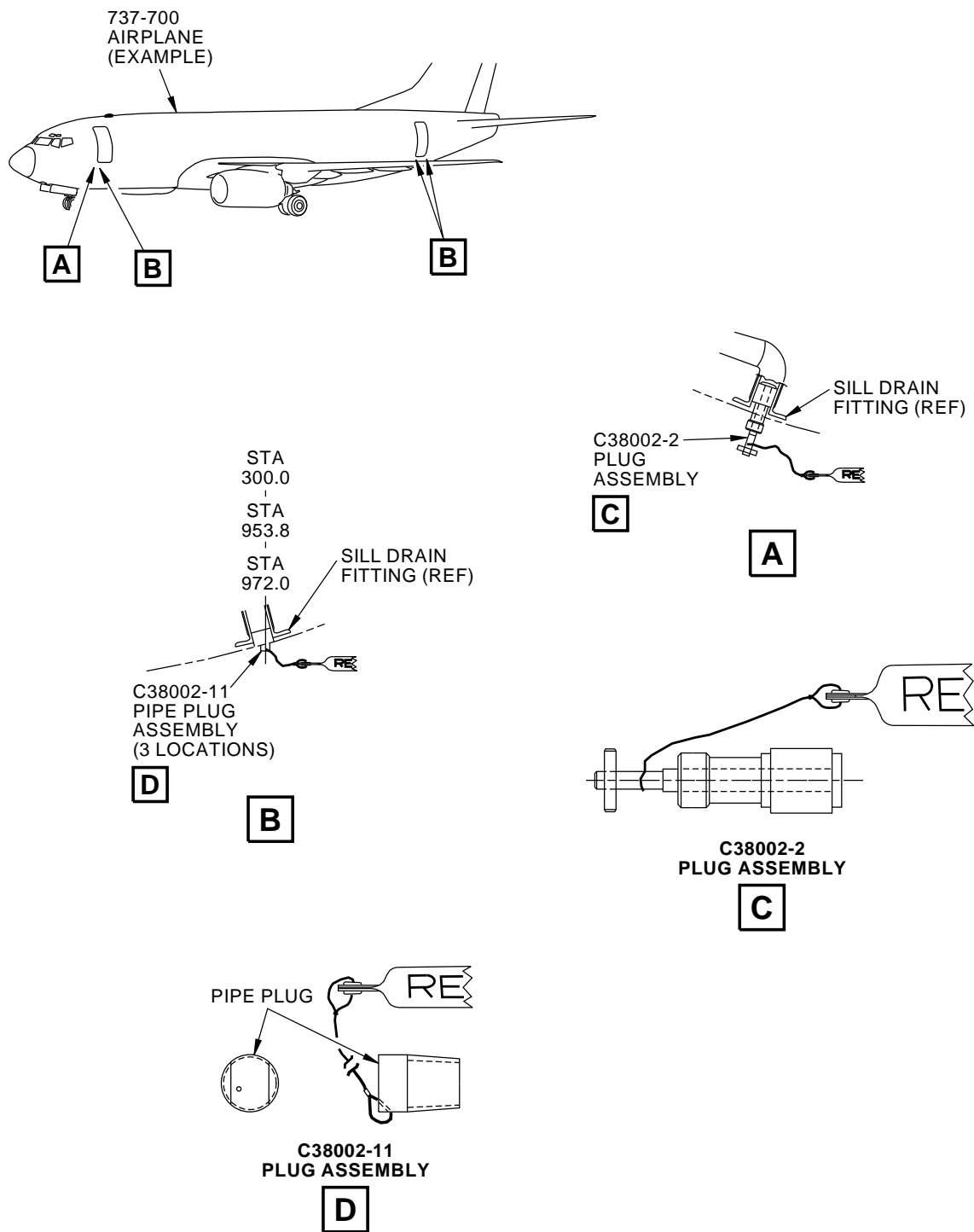
WEIGHT: 5 lbs (2.3 kg)

DIMENSIONS: 1 x 2 x 4 inches (25 x 51 x 102 mm)

38-30-09



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



H64500 S0006831981_V4

Door Sill Drain Skin Fitting Plug Equipment
Figure 1

38-30-09



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: A38012-1, -18, -31, -32, -39, -40

NAME: PUMP EQUIPMENT - VACUUM LAVATORY SYSTEM

AIRPLANE MAINTENANCE: YES

AMM 38-32-00

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The A38012-1 (option), -31 (option) or -39 (preferred) pump equipment is used on all 737 airplanes, except 737-100 thru -500 airplanes, for chemical static soaking waste lines.

The A38012-18 (option), -32 (option) or -40 (preferred) pump equipment is used on all 737 airplanes, except 737-100 thru -500 airplanes, for recirculating chemical soaking of waste lines.

A38012-1, -18, -31, -32, -39 or -40 is used for the removal of waste buildup on the inner surfaces of the vacuum lavatory system waste lines. A38012-1, -31 or -39 is used for unheated, static, chemical soaking only. A38012-18, -32 or -40 is used for unheated, recirculating, chemical soaking only.

The J38004 pump equipment is an alternate to the A38012 pump equipment. J38004 cleans airplane vacuum lavatory system waste lines with heated, circulating, cleaning fluid.

Refer to AMM 38-32-00 and the current A38012 drawing for complete usage instructions.

A38012-1, -18, -31, -32, -39 and -40 consist of:

| A38012-1 | | |
|----------|-----------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | DRUM PUMP ASSEMBLY | A38012-4 |
| 1 | DRAIN HOSE ASSEMBLY | A38012-5 |
| *[1] | FLUSH PLUG ASSEMBLY | A38012-6 |
| *[1] | DRAIN VALVE ASSEMBLY | A38012-7 |
| 1 | WATER SUPPLY ASSEMBLY | A38012-8 |
| 1 | DRAIN END ASSEMBLY | A38012-9 |
| 1 | AIR ASSEMBLY | A38012-10 |
| *[1] | PLUG ASSEMBLY | A38012-11 |
| *[1] | VENT ASSEMBLY | A38012-12 |
| 1 | STORAGE BOX | |

*[1] QUANTITY BASED ON TABULATION PLACARD INFORMATION, THE AIRPLANE OWNER'S MAINTENANCE PROCESSES AND AIRPLANE CONFIGURATION.

38-30-10



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

| A38012-18 | | |
|------------------|---|--------------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| *[1] | FLUSH PLUG ASSEMBLY | A38012-6 |
| 1 | WATER SUPPLY ASSEMBLY | A38012-8 |
| 1 | AIR ASSEMBLY | A38012-10 |
| 1 | DRUM PUMP ASSEMBLY | A38012-21 |
| 2 | DRAIN HOSE ASSEMBLY | A38012-22 |
| *[1] | DRAIN VALVE ASSEMBLY | A38012-23 |
| 1 | DRAIN END ASSEMBLY | A38012-24 |
| *[1] | PLUG ASSEMBLY | A38012-25 |
| *[1] | REPLACEMENT JUMPER MALE/MALE ASSEMBLY | A38012-29 |
| *[1] | REPLACEMENT JUMPER MALE/FEMALE ASSEMBLY | A38012-30 |
| 1 | STORAGE BOX | |

*[1] QUANTITY BASED ON TABULATION PLACARD INFORMATION, THE AIRPLANE OWNER'S MAINTENANCE PROCESSES AND AIRPLANE CONFIGURATION.

| A38012-31 | | |
|------------------|-----------------------|--------------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | DRUM PUMP ASSEMBLY | A38012-35 |
| 1 | DRAIN HOSE ASSEMBLY | A38012-5 |
| *[1] | FLUSH PLUG ASSEMBLY | A38012-6 |
| *[1] | DRAIN VALVE ASSEMBLY | A38012-7 |
| 1 | WATER SUPPLY ASSEMBLY | A38012-8 |
| 1 | DRAIN END ASSEMBLY | A38012-9 |
| 1 | AIR ASSEMBLY | A38012-10 |
| *[1] | PLUG ASSEMBLY | A38012-11 |
| *[1] | VENT ASSEMBLY | A38012-12 |
| 1 | STORAGE BOX | |

*[1] QUANTITY BASED ON TABULATION PLACARD INFORMATION, THE AIRPLANE OWNER'S MAINTENANCE PROCESSES AND AIRPLANE CONFIGURATION.

| A38012-32 | | |
|------------------|-----------------------|--------------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| *[1] | FLUSH PLUG ASSEMBLY | A38012-6 |
| 1 | WATER SUPPLY ASSEMBLY | A38012-8 |
| 1 | AIR ASSEMBLY | A38012-10 |
| 1 | DRUM PUMP ASSEMBLY | A38012-36 |
| 2 | DRAIN HOSE ASSEMBLY | A38012-22 |
| *[1] | DRAIN VALVE ASSEMBLY | A38012-23 |
| 1 | DRAIN END ASSEMBLY | A38012-24 |

38-30-10



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

(Continued)

| A38012-32 | | |
|-----------|---|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| *[1] | PLUG ASSEMBLY | A38012-25 |
| *[1] | JUMPER ASSEMBLY | A38012-26 |
| *[1] | REPLACEMENT JUMPER MALE/MALE ASSEMBLY | A38012-29 |
| *[1] | REPLACEMENT JUMPER MALE/FEMALE ASSEMBLY | A38012-30 |
| 1 | STORAGE BOX | |

*[1] QUANTITY BASED ON TABULATION PLACARD INFORMATION, THE AIRPLANE OWNER'S MAINTENANCE PROCESSES AND AIRPLANE CONFIGURATION.

| A38012-39 | | |
|-----------|------------------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | DRAIN HOSE ASSEMBLY | A38012-5 |
| *[1] | FLUSH PLUG ASSEMBLY | A38012-6 |
| *[1] | DRAIN VALVE ASSEMBLY | A38012-7 |
| 1 | WATER SUPPLY ASSEMBLY | A38012-8 |
| 1 | DRAIN END ASSEMBLY | A38012-9 |
| 1 | AIR ASSEMBLY | A38012-10 |
| *[1] | PLUG ASSEMBLY | A38012-11 |
| *[1] | VENT ASSEMBLY | A38012-12 |
| 1 | DRUM PUMP ASSEMBLY | A38012-35 |
| *[1] | CONNECTION SLEEVE (OPTIONAL) | A38012-82 |
| 1 | STORAGE BOX | |

*[1] QUANTITY BASED ON TABULATION PLACARD INFORMATION, THE AIRPLANE OWNER'S MAINTENANCE PROCESSES AND AIRPLANE CONFIGURATION.

| A38012-40 | | |
|-----------|---|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| *[1] | FLUSH PLUG ASSEMBLY | A38012-6 |
| 1 | WATER SUPPLY ASSEMBLY | A38012-8 |
| 1 | AIR ASSEMBLY | A38012-10 |
| 1 | DRUM PUMP ASSEMBLY | A38012-36 |
| 2 | DRAIN HOSE ASSEMBLY | A38012-22 |
| *[1] | DRAIN VALVE ASSEMBLY | A38012-23 |
| 1 | DRAIN END ASSEMBLY | A38012-24 |
| *[1] | PLUG ASSEMBLY | A38012-25 |
| *[1] | JUMPER ASSEMBLY | A38012-26 |
| *[1] | REPLACEMENT MALE/MALE JUMPER ASSEMBLY | A38012-29 |
| *[1] | REPLACEMENT MALE/FEMALE JUMPER ASSEMBLY | A38012-30 |

38-30-10



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

(Continued)

| A38012-40 | | |
|-----------|------------------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| *[1] | CONNECTION SLEEVE (OPTIONAL) | A38012-82 |
| 1 | STORAGE BOX | |

*[1] QUANTITY BASED ON TABULATION PLACARD INFORMATION, THE AIRPLANE OWNER'S MAINTENANCE PROCESSES AND AIRPLANE CONFIGURATION.

WEIGHT: 300 lbs (136 kg)

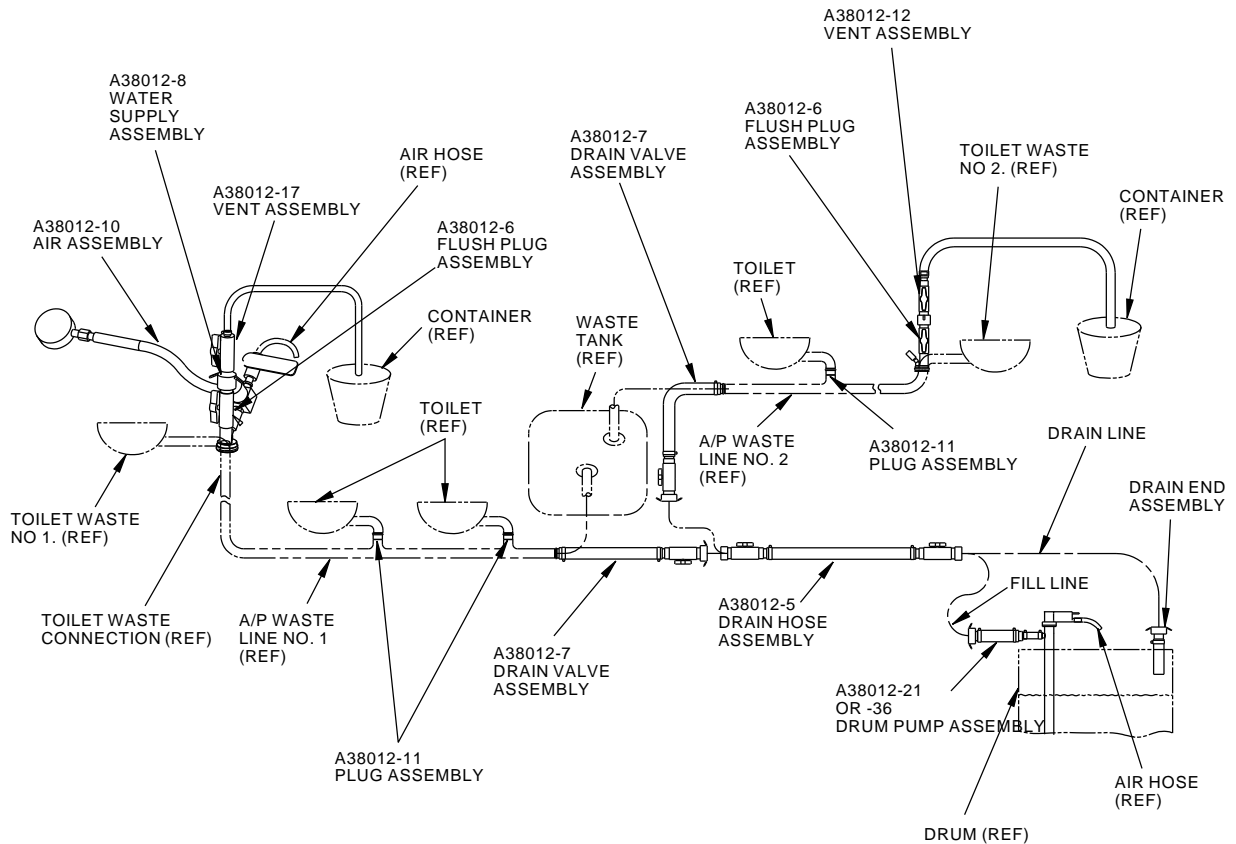
DIMENSIONS: 36 x 24 x 24 inches (914 x 610 x 610 mm)

NOTE: A38012-31 and -32 replace A38012-1 and -18 respectively for future procurement.

A38012-39 and -40 replace A38012-31 and -32 respectively for future procurement.

38-30-10

**737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**A38012-39 SHOWN
A38012-1,-31 SIMILAR
PUMP EQUIPMENT**

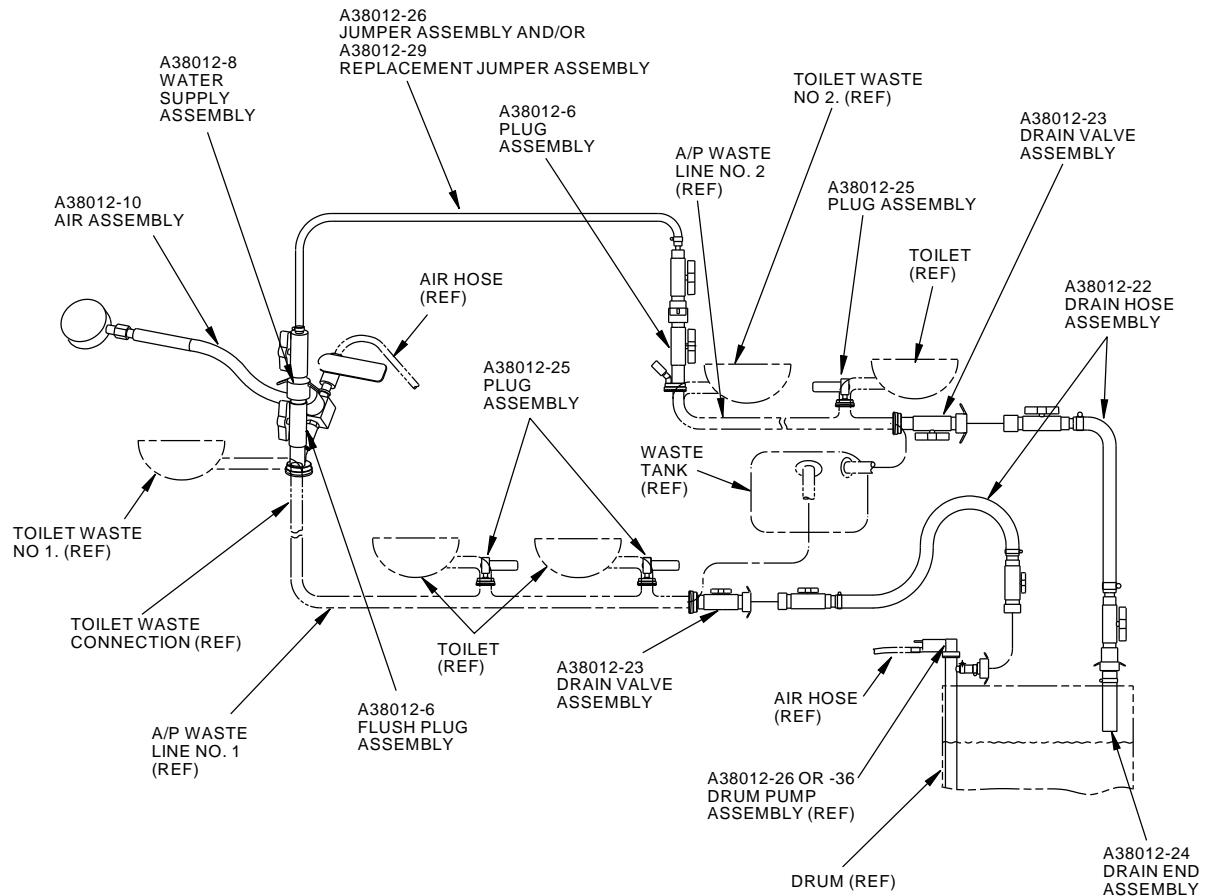
**Vacuum Lavatory System Pump Equipment
Figure 1 (Sheet 1 of 4)**

1342881 S0000238840_V2

38-30-10



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



**A38012-40 SHOWN
A38012-18,-32 SIMILAR
PUMP EQUIPMENT**

1342888 S0000238841_V2

**Vacuum Lavatory System Pump Equipment
Figure 1 (Sheet 2 of 4)**

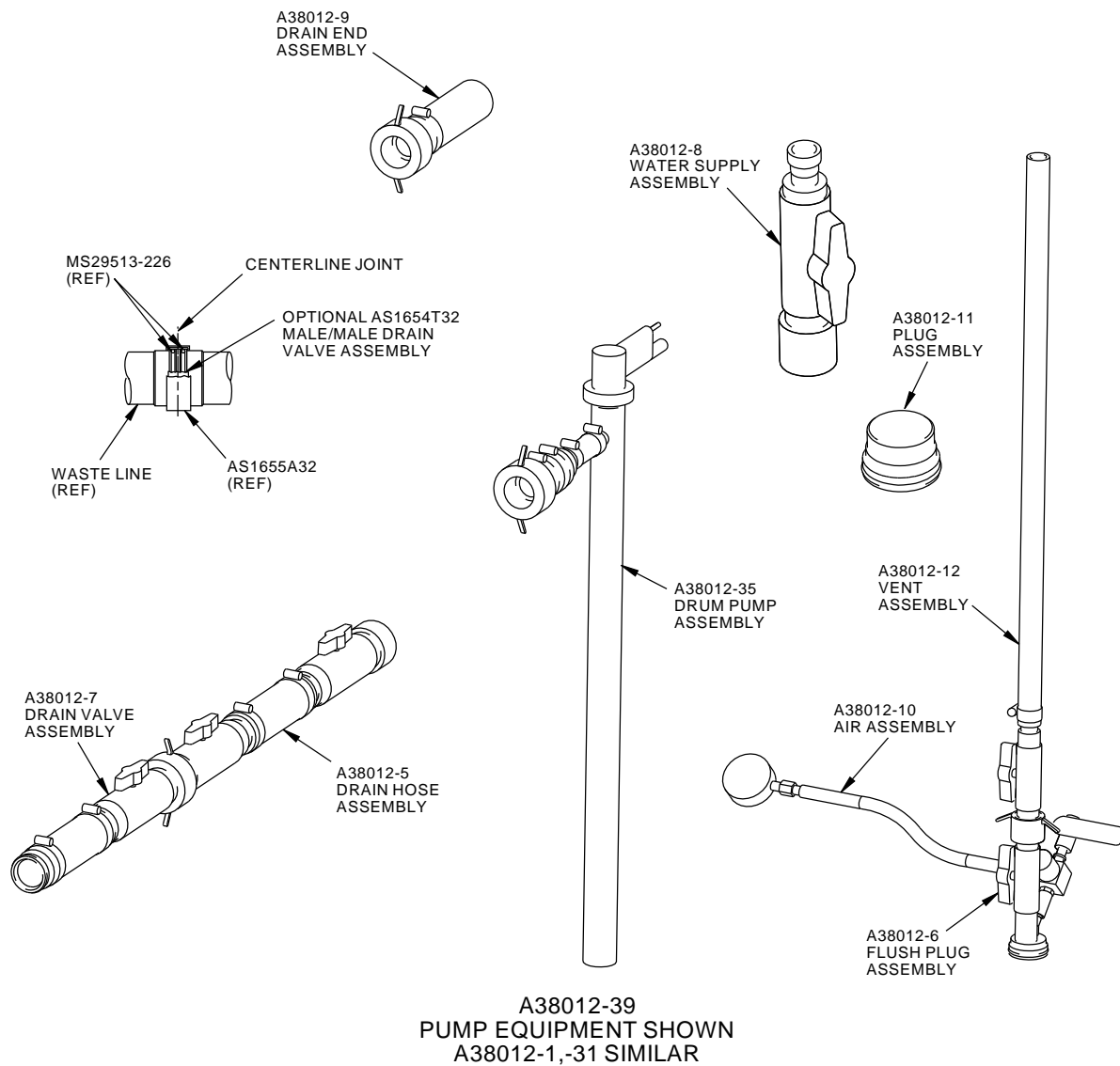
38-30-10

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



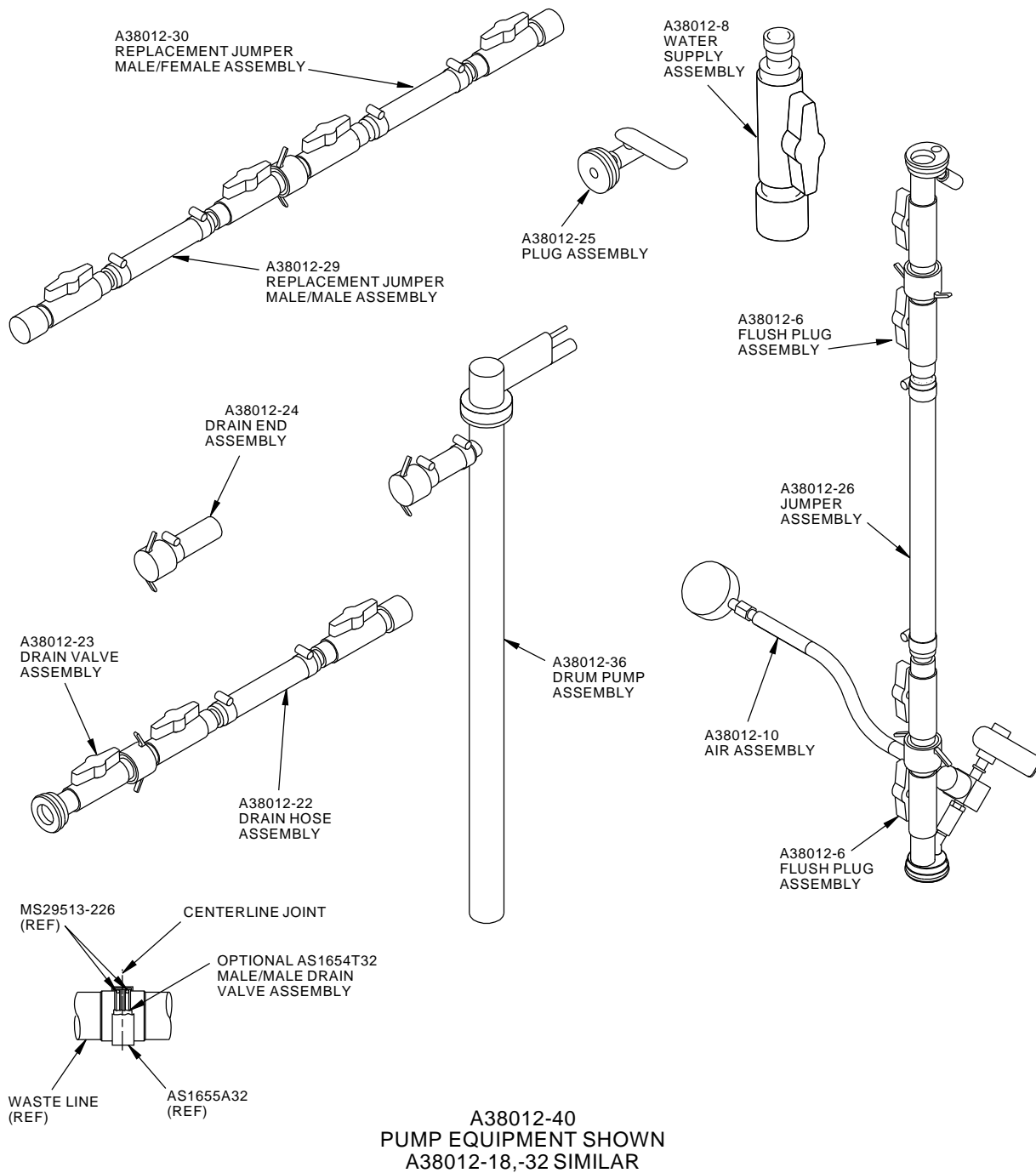
1342889 S0000238842_V3

Vacuum Lavatory System Pump Equipment
Figure 1 (Sheet 3 of 4)

38-30-10



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



1342890 S0000238843_V3

Vacuum Lavatory System Pump Equipment
Figure 1 (Sheet 4 of 4)

38-30-10

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

Page 8
Aug 05/2015



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: C38003-1

NAME: INSTALLATION ASSEMBLY - SLEEVE, WASTE TANK

AIRPLANE MAINTENANCE: YES

AMM 38-32-03, AMM 38-32-07

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The C38003-1 installation assembly is used on all 737-600 thru -900 airplanes.

C38003 is used to push the sleeve over the waste tank joint to reduce the risk of damaging the sleeve.

Refer to the current C38003 tool drawing, AMM 38-32-03 and AMM 38-32-07 for complete usage instructions.

C38003-1 consists of:

| C38003-1 | | |
|----------|----------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | CLAMP ASSEMBLY | C38003-2 |
| 1 | STORAGE BOX | |

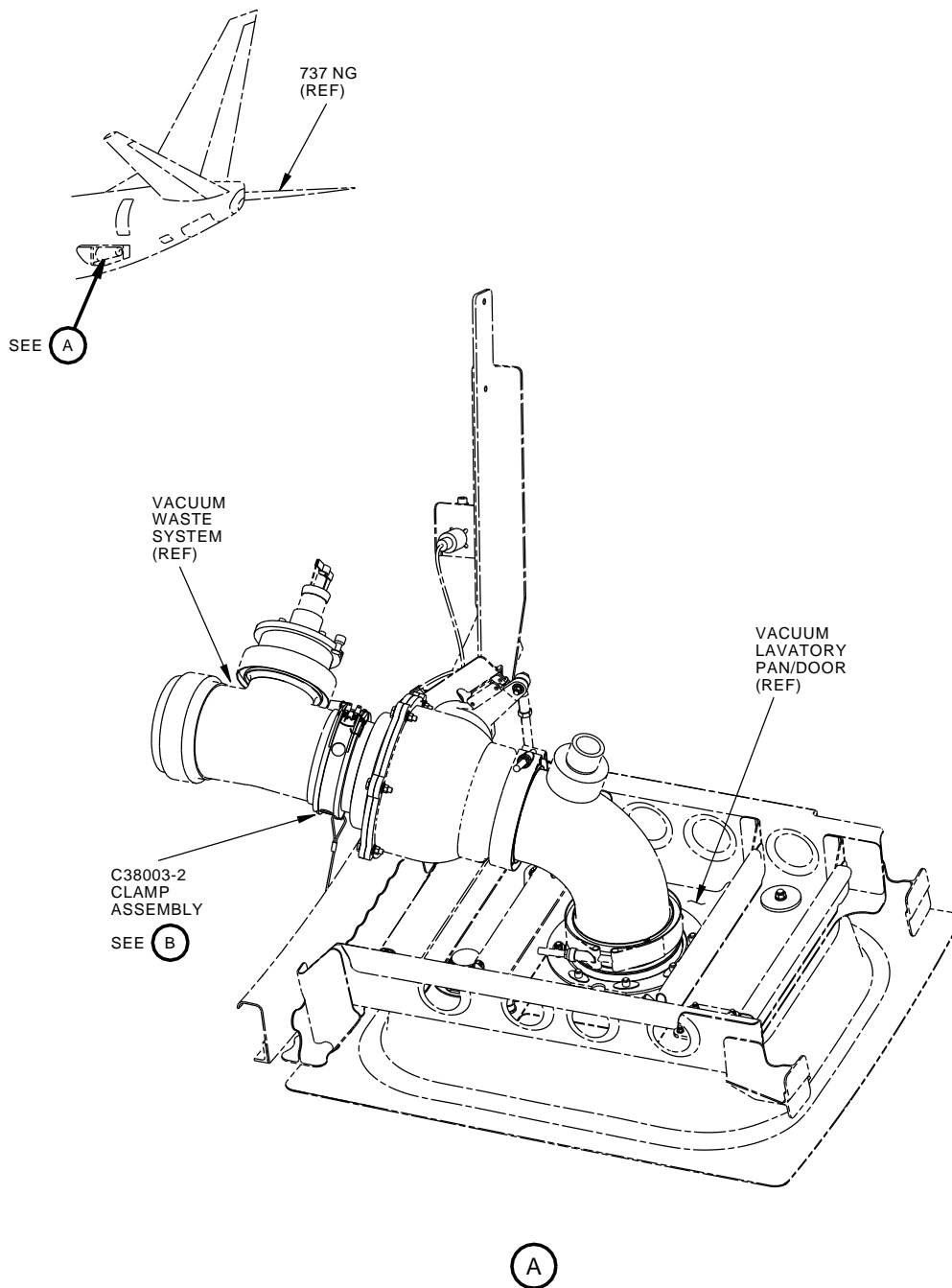
WEIGHT: 1 lb (0.5 kg)

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

38-30-11



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



2001542 S0000391828_V1

Waste Tank Sleeve Installation Assembly
Figure 1 (Sheet 1 of 2)

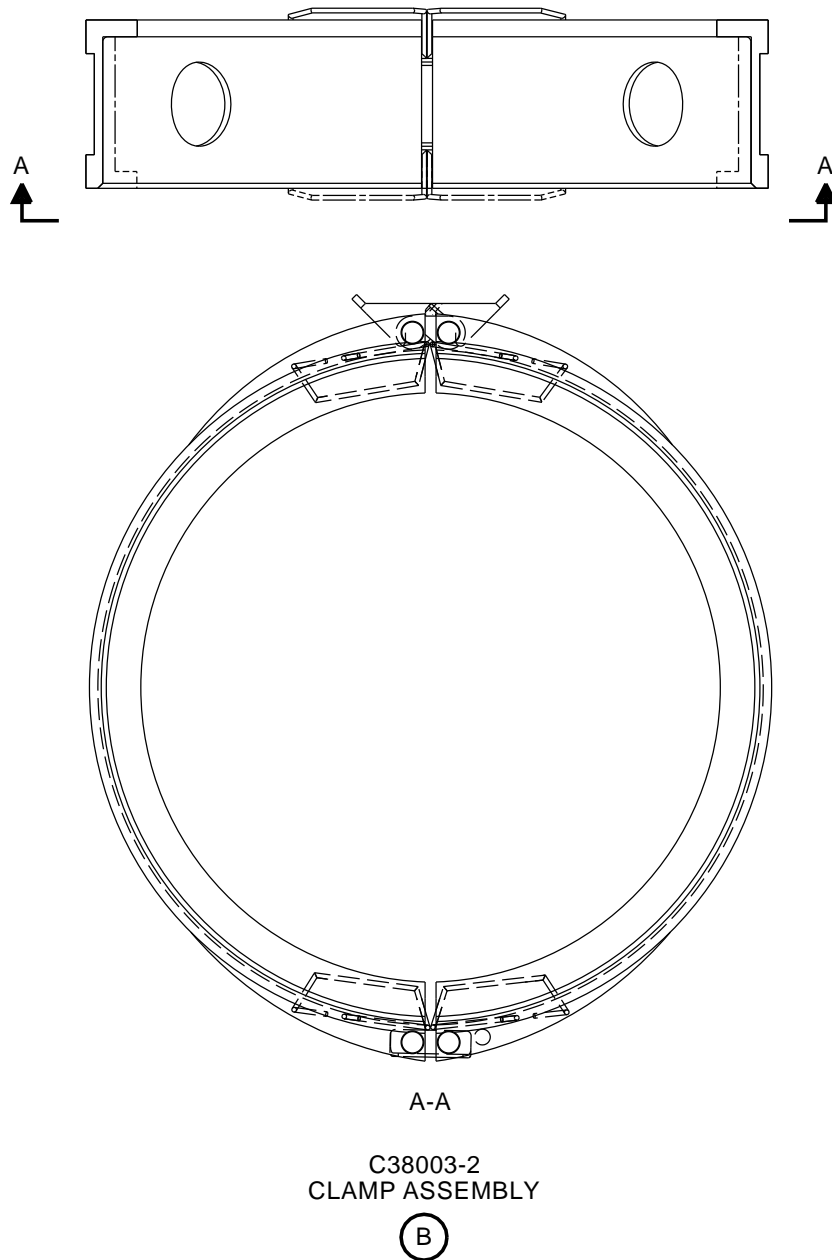
38-30-11

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



2001534 S0000391829_V1

Waste Tank Sleeve Installation Assembly
Figure 1 (Sheet 2 of 2)

38-30-11

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

Page 3
Aug 05/2014



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

PART NUMBER: J38004-232, -247

NAME: PUMP EQUIPMENT - VACUUM LAVATORY SYSTEM

AIRPLANE MAINTENANCE: YES

AMM 38-32-00

COMPONENT MAINTENANCE: NO

USAGE & DESCRIPTION: The J38004-232 (option) and J38004-247 (preferred) pump equipment is used on all 737 airplanes (except -100 thru -500) equipped with vacuum waste systems.

J38004 is used for the removal of waste buildup on the inner surfaces of the waste lines. J38004 recirculates heated cleaning fluid in the waste lines.

J38004 is an alternate to the A38012 pump equipment. A38012-39 cleans waste lines with unheated, static, cleaning fluid. A38012-40 cleans waste lines with unheated, recirculating cleaning fluid.

Refer to AMM 38-32-00 and the current J38004 drawing for complete usage instructions.

J38004-232 and -247 consist of:

| J38004-232 | | |
|------------|-----------------------------|----------------------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | SUPPLY HOSE ASSEMBLY | J38004-3 |
| 1 | RECIRCULATION HOSE ASSEMBLY | J38004-4 |
| 1 | PLUG | J38004-5 |
| 1 | CLEAN FLUID HOSE ASSEMBLY | J38004-6 |
| 1 | ADAPTER ASSEMBLY | J38004-7 |
| 1 | VENT PLUG ASSEMBLY | J38004-8 |
| 1 | FLUSH PLUG ASSEMBLY | J38004-10 |
| 1 | PLUG ASSEMBLY | J38004-11 |
| 1 | GRAY WATER PLUG ASSEMBLY | J38004-12 |
| 1 | DRAIN HOSE ASSEMBLY | J38004-13 |
| 1 | HOSE ASSEMBLY | J38004-14 |
| 1 | OUTLET PLUG | J38004-225 |
| 1 | DOLLY ASSEMBLY | J38004-233 ^{*[1]} |
| 1 | STORAGE BOX | |

*[1] NO STORAGE BOX FOR J38004-233.

| J38004-247 | | |
|------------|----------------------|-------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | SUPPLY HOSE ASSEMBLY | J38004-3 |

38-30-15



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

(Continued)

| J38004-247 | | |
|------------|-----------------------------|----------------------------|
| QUANTITY | NOMENCLATURE | PART NUMBER |
| 1 | RECIRCULATION HOSE ASSEMBLY | J38004-4 |
| 1 | PLUG | J38004-5 |
| 1 | CLEAN FLUID HOSE ASSEMBLY | J38004-6 |
| 1 | ADAPTER ASSEMBLY | J38004-7 |
| 1 | VENT PLUG ASSEMBLY | J38004-8 |
| 1 | FLUSH PLUG ASSEMBLY | J38004-10 |
| 1 | PLUG ASSEMBLY | J38004-11 |
| 1 | GRAY WATER PLUG ASSEMBLY | J38004-12 |
| 1 | DRAIN HOSE ASSEMBLY | J38004-13 |
| 1 | HOSE ASSEMBLY | J38004-14 |
| 1 | OUTLET PLUG | J38004-225 |
| 1 | DOLLY ASSEMBLY | J38004-252 ^{*[1]} |
| 1 | STORAGE BOX | |

*[1] J38004-252 DOLLY ASSEMBLY IS STORED SEPARATELY.

WEIGHT: 730 lbs (331 kg)

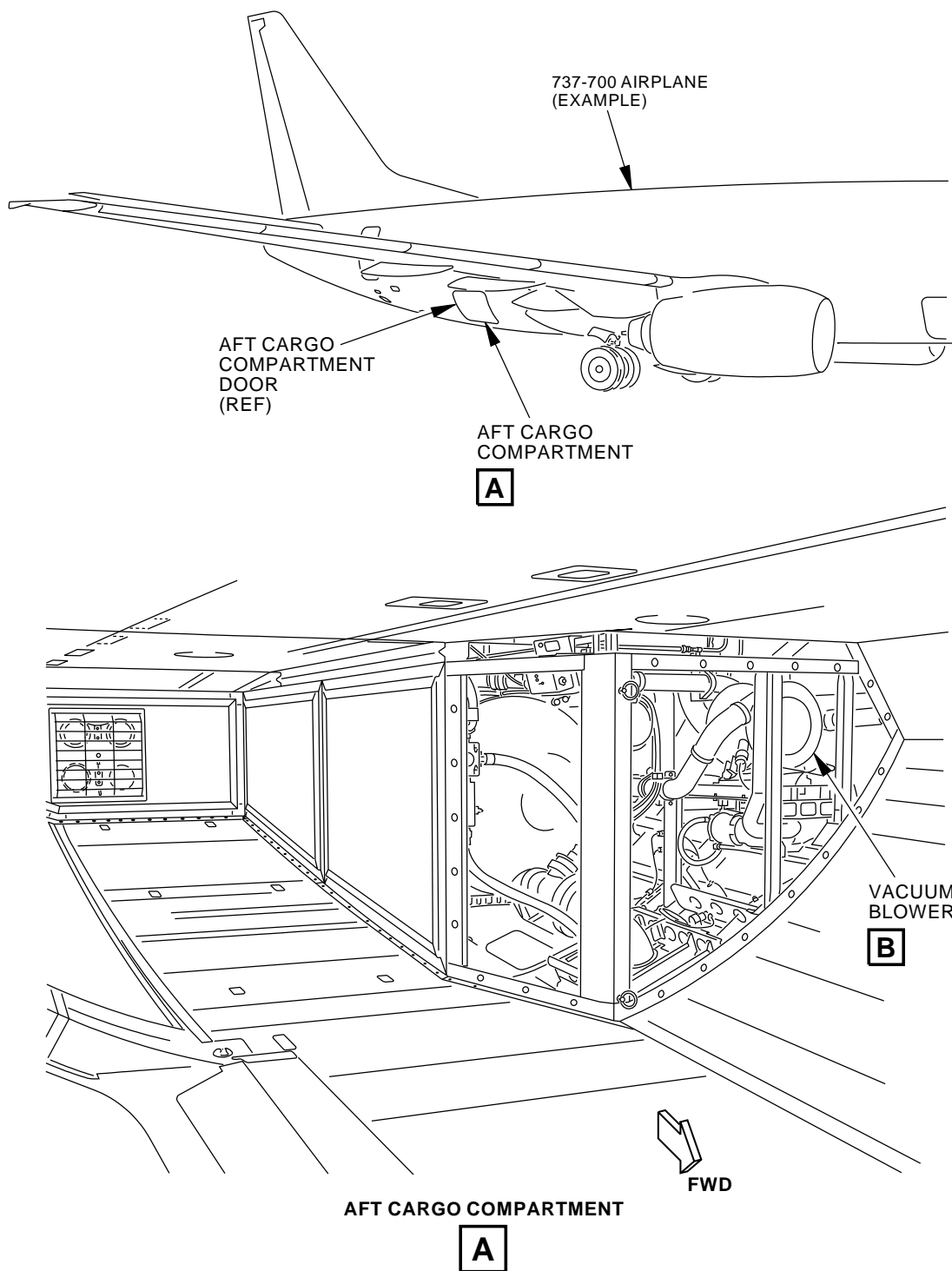
DIMENSIONS: 38 x 75 x 58 inches (965 x 1905 x 1473 mm)

NOTE: J38004-247 replaces J38004-232 for future procurement.
J38004-232 supersedes J38004-1.

38-30-15



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



2164945 S0000474693_V2

Vacuum Lavatory System Pump Equipment
Figure 1 (Sheet 1 of 4)

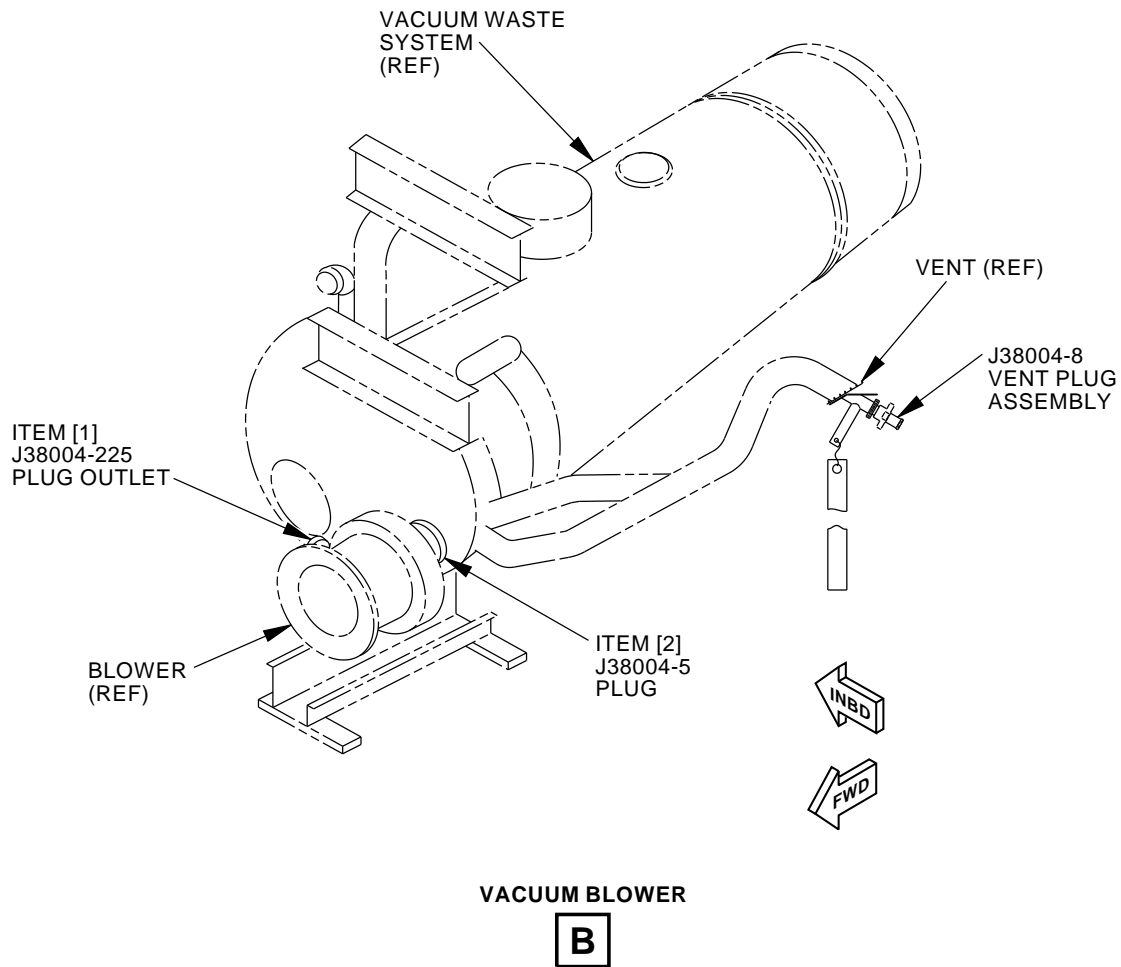
38-30-15

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



2164954 S0000474696_V2

Vacuum Lavatory System Pump Equipment
Figure 1 (Sheet 2 of 4)

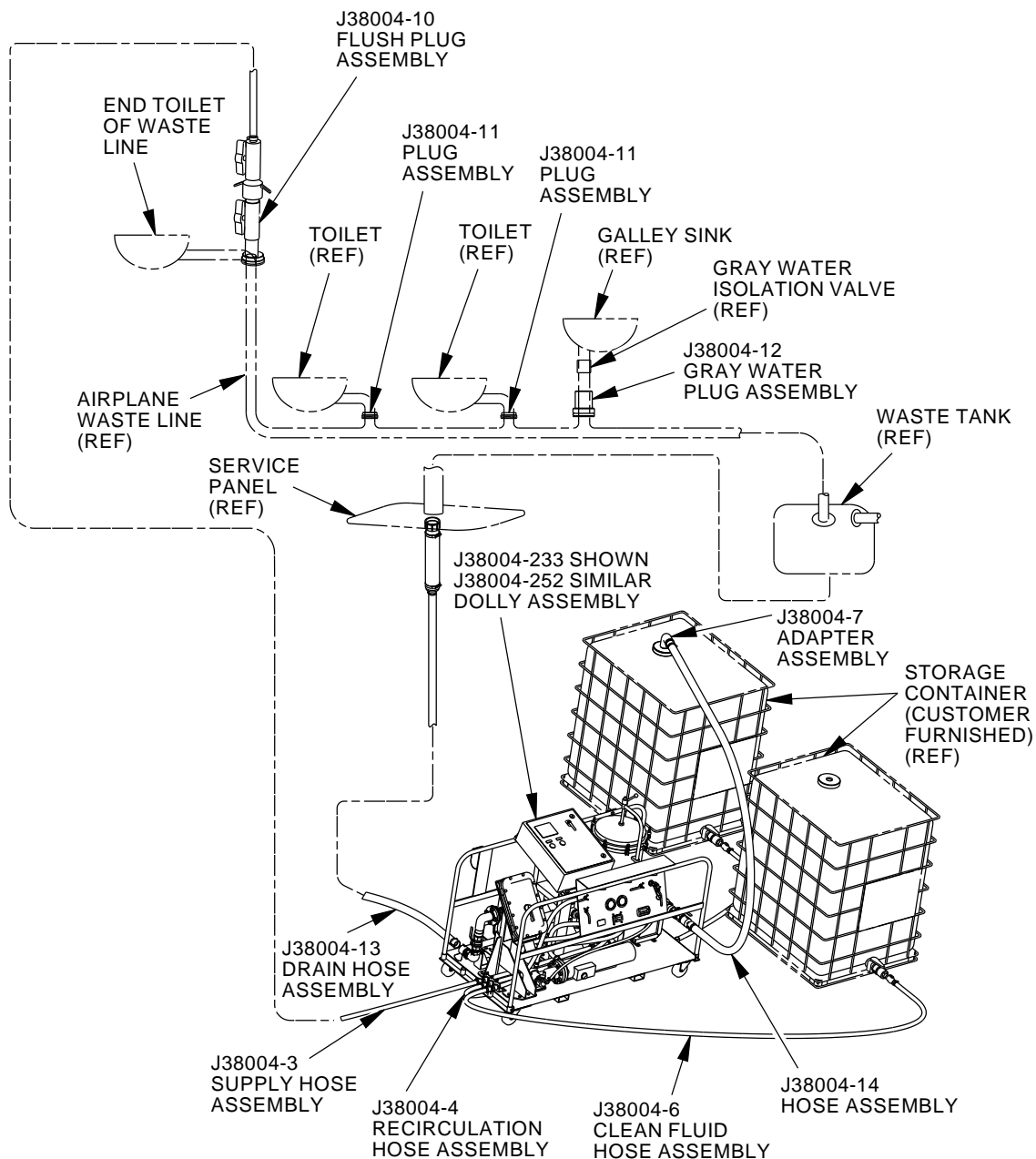
38-30-15

D634A501

BOEING PROPRIETARY - Copyright © Unpublished Work - See title page for details

Page 4
Aug 05/2015

**737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



RECIRCULATION CONFIGURATION

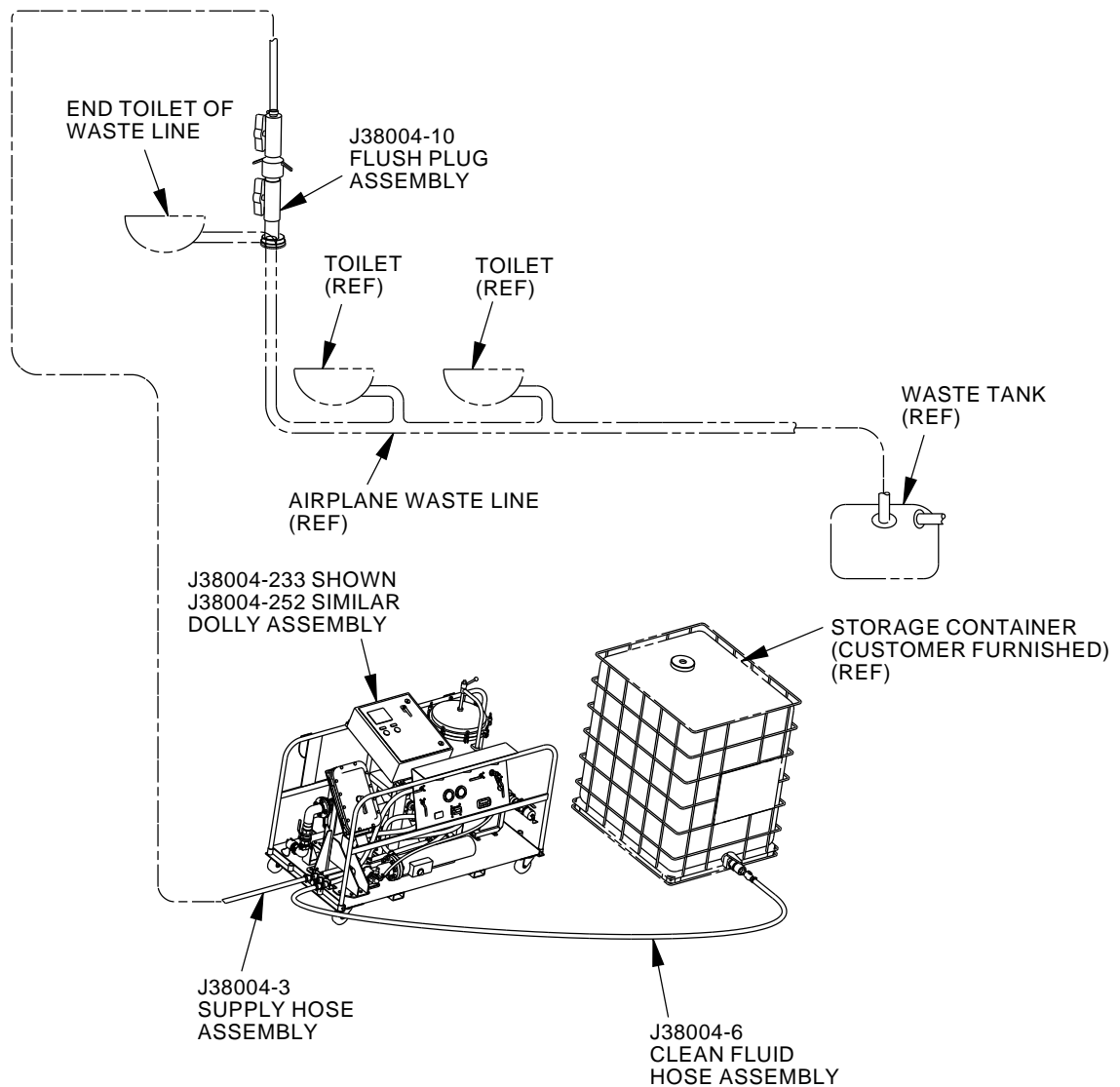
2164970 S0000474699_V3

**Vacuum Lavatory System Pump Equipment
Figure 1 (Sheet 3 of 4)**

38-30-15



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



QUICK CLEAN CONFIGURATION

2164980 S0000474701_V3

Vacuum Lavatory System Pump Equipment
Figure 1 (Sheet 4 of 4)

38-30-15



737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL

| REPAIRABLE/REPLACEABLE PARTS | | | |
|------------------------------|-------------|--------------|-------------|
| ITEM NUMBER | PART NUMBER | NOMENCLATURE | VENDOR CODE |
| [1] | J38004-225 | OUTLET PLUG | --- |
| [2] | J38004-5 | PLUG | --- |

38-30-15