

COMPONENT MAINTENANCE MANUAL WITH ILLUSTRATED PARTS LIST

POTABLE WATER SYSTEM TANK ASSEMBLY

PART NUMBER 417A2508–1, –10, –2, –3, –4, –5, –6, –7, –8, –9

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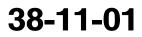
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Revision No. 7 Jul 01/2009

To: All holders of POTABLE WATER SYSTEM TANK ASSEMBLY 38-11-01.

Attached is the current revision to this COMPONENT MAINTENANCE MANUAL

The COMPONENT MAINTENANCE MANUAL 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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Location of Change

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COMPONENT MAINTENANCE MANUAL

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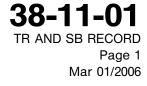
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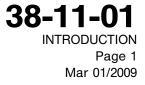
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INTRODUCTION

1. General

- A. The instructions in this manual supply the data necessary to do the maintenance functions together with the test, fault isolation, repair, and replacement of the defective parts.
- B. This manual is divided into different parts:
 - (1) Title Page
 - (2) Transmittal Letter
 - (3) Highlights
 - (4) List of Effective Pages
 - (5) Table of Contents
 - (6) Temporary Revision & Service Bulletin Record
 - (7) Record of Revisions
 - (8) Record of Temporary Revisions
 - (9) Introduction
 - (10) Procedures & IPL Sections
- C. Components that can be repaired have a different repair number for each specified repair. To find the repair number location of a component, look in the Repair-General procedure at the beginning of the REPAIR section. The Repair-General procedure also has an explanation of the True Position Dimension symbols used.
- D. All dimensions, measures, quantities and weights included are in English units. When metric equivalents are given they will be in the parentheses that follow the English units.
- E. The introduction to the Illustrated Parts List (IPL) shows how the IPL data is used.
- F. Design changes, optional parts, configuration differences and Service Bulletin modifications may cause different part numbers. These part numbers are identified in the IPL with an alphabetical letter which is added to the end of the basic item number. This new item number is referred to as an alpha-variant. Throughout the manual, IPL basic item number references also apply to alpha-variants unless shown differently.
- G. The tool reference numbers found in the individual procedures and in the Special Tools, Fixtures, and Equipment section are used to identify if a tool is a standard tool (STD-XXXX), a commercial tool (COM-XXXX), or a Special Tool (SPL-XXXX). This reference number is also used to distinguish between tools with similar names in the same procedure. These reference numbers are for use in the documentation only. They are not to be used for ordering tools.







POTABLE WATER SYSTEM TANK ASSEMBLY - DESCRIPTION AND OPERATION

1. Description

A. Each potable water system tank assembly has a tank, a standpipe assembly, three fittings, four orings, and a retaining washer.

2. Operation

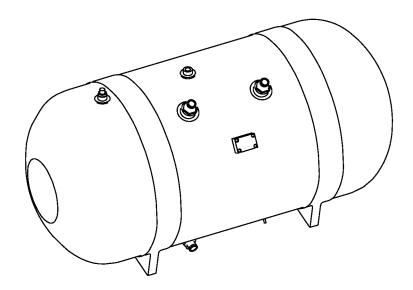
A. The Potable Water System Tank Assembly holds the clean water supply for the airplane.

3. Leading Particulars (Approximate)

- A. For 417A2508-1, -2, -6, -7 tank assemblies:
 - (1) Length 41.0 inches
 - (2) Width 20.0 inches
 - (3) Height 23.5 inches
 - (4) Weight 20.0 pounds
- B. For 417A2508-3, -4, -5, -8, -9, -10 tank assemblies:
 - (1) Length 55.0 inches
 - (2) Width 20.0 inches
 - (3) Height 23.5 inches
 - (4) Weight 23.4 pounds







ASSEMBLY 417A2508-1 IS SHOWN ASSEMBLIES 417A2508-2 THRU -10 ARE EQUIVALENT

Potable Water System Tank Assembly Figure 1

> **38-11-01** DESCRIPTION AND OPERATION Page 2 Mar 01/2006



TESTING AND FAULT ISOLATION

(NOT APPLICABLE)





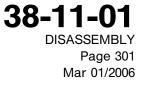
DISASSEMBLY

1. General

- A. This procedure has the data necessary to disassemble the potable water system tank assembly.
- B. Disassemble this component sufficiently to isolate the defects, do the necessary repairs, and put the component back to a serviceable condition.
- C. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- D. Refer to IPL Figure 1 for the applicable item numbers.

2. Disassembly

- A. Procedure
 - (1) Use standard industry practices and these steps.
 - (2) Remove the standpipe assembly (30), three fittings (5, 10), four o-rings (20, 25), and a retaining washer (15) from the tank (35).





CLEANING

1. General

- A. This procedure has the data necessary to clean the potable water system tank assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the applicable item numbers.

2. Cleaning

A. References

| Reference | Title |
|---------------|-----------------------------|
| SOPM 20-30-03 | GENERAL CLEANING PROCEDURES |

B. Procedure

(1) Use standard industry practices and the instructions in SOPM 20-30-03.





CHECK

1. General

- A. This procedure has the data necessary to find defects in the material of the specified parts.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the applicable item numbers.

2. Check

A. References

| Reference | Title |
|---------------|---------------------------------|
| SOPM 20-20-02 | PENETRANT METHODS OF INSPECTION |

B. Procedure

- (1) Use standard industry practices to do a visual check for defects on all the parts. Do the penetrant check only if the visual check shows possible defects or if you think there are defects on the parts listed below.
- (2) Do a penetrant check (SOPM 20-20-02) of these parts:
 - (a) Fittings (5)
- (3) Do a pressure check of the tank assembly.
 - (a) Fill the tank assembly with water, then seal the fittings (5, 32) at three locations.
 - (b) Apply 50 psi of pressure to the fitting (10). The fitting (10) has 0.5625-18 UNJF-3A threads. Make sure there are no leaks.
 - (c) Remove the water from the tank assembly.
 - (d) Apply -9.6 psi of air pressure (a vacuum of 9.6 psi or 20 inches Hg) to the tank assembly. Make sure that the tank assembly has no deformation.



<u>REPAIR</u>

1. General

A. Instructions for repair, refinish, and replacement of the specified subassembly parts are included in each REPAIR when applicable:

| | | Table 601: | |
|-------------|-------------------------|------------|--------|
| PART NUMBER | | NAME | REPAIR |
| _ | REFINISH OF OTHER PARTS | | 1-1 |



417A2508



COMPONENT MAINTENANCE MANUAL

REFINISH OF OTHER PARTS - REPAIR 1-1

1. General

- A. This procedure has the data necessary to refinish the parts which are not given in the specified repairs.
- B. Refer to the Standard Overhaul Practice Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the applicable item numbers.

2. Refinish of Other Parts

A. References

| Reference | Title |
|---------------|--|
| SOPM 20-30-02 | STRIPPING OF PROTECTIVE FINISHES |
| SOPM 20-41-01 | DECODING TABLE FOR BOEING FINISH CODES |

- B. Procedure
 - **NOTE**: For stripping of protective finishes, refer to SOPM 20-30-02. For the decoding table for Boeing finish codes, refer to SOPM 20-41-01.
 - (1) Instructions for the repair procedure of the parts listed in REPAIR 1-1, Table 601 is for repair of the initial finish.

Table 601: Refinish details

| IPL FIG. & ITEM | MATERIAL | FINISH |
|-------------------------|----------------|----------------------|
| Standpipe assembly (30) | 321 bar/tubing | Passivate (F-17.25). |





ASSEMBLY

1. General

- A. This procedure has the data necessary to assemble the potable water system tank assembly.
- B. Refer to the Standard Overhaul Practices Manual (SOPM) for the SOPM subjects identified in this procedure.
- C. Refer to IPL Figure 1 for the applicable item numbers.

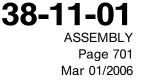
2. Assembly

A. References

| Reference | Title |
|---------------|--|
| SOPM 20-50-06 | INSTALLATION OF O-RINGS AND TEFLON SEALS |

B. Procedure

- (1) Use standard industry practices and these steps.
- (2) For the installation of the o-rings (20, 25) in the following steps, refer to SOPM 20-50-06.
 - (a) Install the standpipe assembly (30) into the tank (35) with o-ring (25). Tighten the standpipe assembly (30) to 750-830 pound-inches.
 - (b) Install two fittings (5) and retaining washer (15) onto the tank (35) with o-rings (25). Tighten the fittings (5) to 750-830 pound-inches.
 - (c) Install the fitting (10) onto the tank (35) with o-ring (20). Tighten the fitting (10) to 252-278 pound-inches.
 - (d) Apply 50 psi with water to the tank assembly, with the gage and o-rings installed. Make sure there are no leaks.





FITS AND CLEARANCES

| REF IPL | | NAME | TORQUE* | | |
|----------|----------|---------------------|--------------|------------|--|
| FIG. NO. | ITEM NO. | NAME | POUND-INCHES | POUND-FEET | |
| 1 | 30 | Stand Pipe Assembly | 750-830 | | |
| 1 | 5 | Fitting | 750–830 | | |
| 1 | 10 | Fitting | 252–278 | | |

* REFER TO SOPM 20-50-01 FOR TORQUE VALUES OF STANDARD FASTENERS.

Torque Table Figure 801





SPECIAL TOOLS, FIXTURES, AND EQUIPMENT

(NOT APPLICABLE)

38–11–01 SPECIAL TOOLS, FIXTURES, AND EQUIPMENT Page 901 Mar 01/2006



ILLUSTRATED PARTS LIST

1. Introduction

- A. The Illustrated Parts List (IPL) contains an illustration and a list of component parts you can repair or replace. The Illustrated Parts Catalog (IPC) shows how to use the Boeing part number system.
- B. This shows how parts are related: The relation of each item to its next higher assembly (NHA) is shown in the NOMENCLATURE column. Use the indenture system that follows:

| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
|---|---|---|---|---|---|---|
| - | - | - | - | - | • | - |

- . Assembly
- . Attaching parts for assembly
- . Detail parts for assembly
- . . Subassembly
- . . Attaching parts for subassembly
- Detail parts for subassembly
- . . . Sub-subassembly
- . . . Attaching parts for subassembly
 - Details parts for sub-subassembly

Detail Installation Parts (Included only if installation parts may be sent to the shop as part of assembly)

- C. Each top assembly is given one use code letter (A, B, C, etc.) in the USAGE CODE column. All subsequent component parts in the list can have one or more of the use code letters to show effectivity to top assemblies. A component part without a use code applies to all top assemblies.
- D. An alphabetical letter is added after the item number for optional parts, parts changed by a Service Bulletin, configuration differences (except left-handed and right-handed parts), last engineering releases, and parts added between item numbers in a sequence. The alphabetical letter will not be shown on the illustration for equivalent parts of the same part number.
- E. Color-coded parts are identified with a single digit alpha following the dash number or with "SP" suffix. If the "SP" suffix is used, it represents consolidation of all color codes applicable for a given usage which are not separately listed. Orders for color-coded parts should include the registry number of the airplane for which the parts are ordered.
- F. If a part number is 15 characters long but will not fit in the part number column, the part number will be displayed with a "~" at the end of the line and will be continued on the next line. The "~" denotes that the part number continues on the next line.
- G. Parts changed by a Service Bulletin are shown by PRE SB XXXX and POST SB XXXX added to the NOMENCLATURE column.
 - (1) When a new top assembly is added by a Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the top assembly level only. The configuration differences at the detail part level are shown by use code letters.
 - (2) When the top assembly part number is not changed by the Service Bulletin, PRE SB XXXX and POST SB XXXX will be added at the detail level.
- H. Interchangeable Parts

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| Optional (OPT) | The part is optional to and interchangeable with other parts that have the same item number. |
|--|--|
| Replaces, Replaced by and not interchangeable with (REPLACES, REPLACED BY AND NOT INTCHG/W) | The part replaces and is not interchangeable with the initial part. |
| Replaces, Replaced by (REPLACES, REPLACED BY) | The part replaces and is interchangeable with, or is an alternative to, the initial part. |

VENDOR CODES

Name

Code

S5825

YOKOHAMA RUBBER CO LTD 36-11 SHIMBASHI 5-CHOME MINATO KU TOKYO 105, JAPAN FORMERLY V0587B



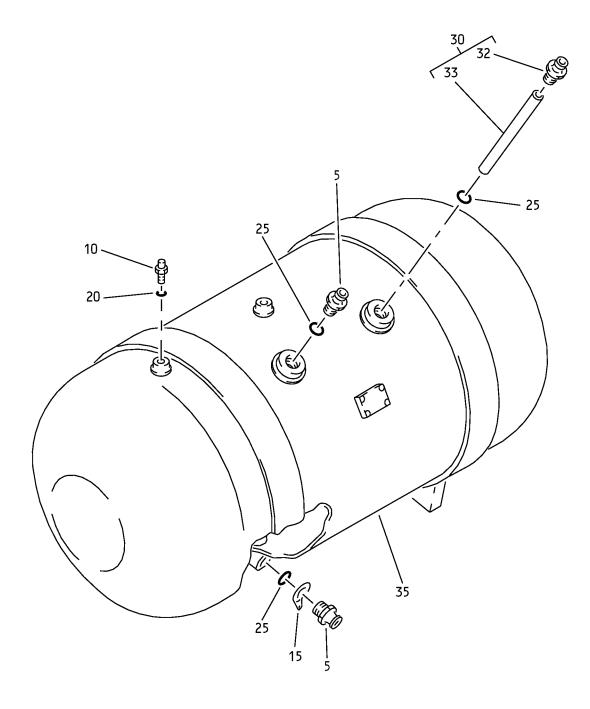


NUMERICAL INDEX

| PART NUMBER | AIRLINE PART NUMBER | FIGURE | ITEM | UNITS PER ASSEMBLY |
|---------------|---------------------|--------|------|-----------------------|
| 0A011-0236-1 | | 1 | 35B | 1 |
| 0A011-0236-11 | | 1 | 35C | 1 |
| 0A011-0236-21 | | 1 | 35D | 1 |
| 0A011-0236-31 | | 1 | 35E | 1 |
| 417A2508-1 | | 1 | 1A | RF |
| 417A2508-10 | | 1 | 1K | RF |
| 417A2508-2 | | 1 | 1B | RF |
| 417A2508-3 | | 1 | 1C | RF |
| 417A2508-4 | | 1 | 1E | RF |
| 417A2508-5 | | 1 | 1D | RF |
| 417A2508-6 | | 1 | 1F | RF |
| 417A2508-7 | | 1 | 1G | RF |
| 417A2508-8 | | 1 | 1H | RF |
| 417A2508-9 | | 1 | 1J | RF |
| 417A2509-1 | | 1 | 5 | 2 |
| | | 1 | 32 | 1 |
| 417A2509-10 | | 1 | 30B | 1 |
| 417A2509-13 | | 1 | 33C | 1 |
| 417A2509-14 | | 1 | 30C | 1 |
| 417A2509-15 | | 1 | 33D | 1 |
| 417A2509-16 | | 1 | 30D | 1 |
| 417A2509-2 | | 1 | 30 | 1 |
| 417A2509-3 | | 1 | 33 | 1 |
| 417A2509-4 | | 1 | 30A | 1 |
| 417A2509-5 | | 1 | 33A | 1 |
| 417A2509-9 | | 1 | 33B | 1 |
| 5759-29 | | 1 | 15 | 1 |
| MS21902J6 | | 1 | 10 | 1 |
| NAS1611-014 | | 1 | 20 | 1 |
| NAS1611-119 | | 1 | 25 | 3 |
| S417A201-1 | | 1 | 35B | 1 |
| S417A201-10 | | 1 | 35E | 1 |
| S417A201-2 | | 1 | 35C | 1 |
| S417A201-9 | | 1 | 35D | 1 |

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Potable Water System Tank Assembly IPL Figure 1

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| FIG/ ITEM | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|--------------|-------------|---------------------------|--|---------------|----------------------|
| 1– | | | | | |
| -1A | 417A2508-1 | | TANK ASSY-POTABLE WATER SYS 40 GAL USEABLE, STAND PIPED TO 30 GAL | A | RF |
| –1B | 417A2508-2 | | TANK ASSY-POTABLE WATER SYS 40 GAL USABLE, STAND PIPED TO 30 GAL | В | RF |
| -1C | 417A2508-3 | | TANK ASSY-POTABLE WATER SYS 60 GAL USABLE, STAND PIPED TO 40 GAL | С | RF |
| –1D | 417A2508-5 | | TANK ASSY-POTABLE WATER SYS 60 GAL USABLE, STAND PIPED TO 60 GAL | D | RF |
| –1E | 417A2508-4 | | TANK ASSY-POTABLE WATER SYS 60 GAL USABLE, STAND PIPED TO 40 GAL | Е | RF |
| –1F | 417A2508-6 | | TANK ASSY-WATER, 40 GALLON USEABLE, STAND PIPED TO 30 GALLON | F | RF |
| –1G | 417A2508-7 | | TANK ASSY-WATER, 40 GALLON USEABLE, STAND PIPED TO 40 GALLON | G | RF |
| –1H | 417A2508-8 | | TANK ASSY-WATER, 60 GALLON USEABLE, STAND PIPED TO 40 GALLON | Н | RF |
| –1J | 417A2508-9 | | TANK ASSY-WATER, 60 GALLON USEABLE, STAND PIPED TO 50 GALLON | J | RF |
| –1K | 417A2508-10 | | TANK ASSY-WATER, 60 GALLON USEABLE, STAND PIPED TO 60 GALLON | К | RF |
| 5 | 417A2509-1 | | . FITTING | | 2 |
| 10 | MS21902J6 | | . UNION | | 1 |
| 15 | 5759-29 | | . WASHER-RETAINING | | 1 |
| 20 | NAS1611-014 | | . PACKING | | 1 |
| 25 | NAS1611-119 | | . PACKING | | 3 |
| 30 | 417A2509-2 | | . STANDPIPE ASSY | A, F | 1 |
| –30A | 417A2509-4 | | . STANDPIPE ASSY | B, G | 1 |
| –30B | 417A2509-10 | | . STANDPIPE ASSY | С, Н | 1 |
| -30C | 417A2509-14 | | . STANDPIPE ASSY | D, K | 1 |
| -30D | 417A2509-16 | | . STANDPIPE ASSY | E, J | 1 |
| 32 | 417A2509-1 | | FITTING-FILL | | 1 |
| 33 | 417A2509-3 | | TUBE | A, F | 1 |
| -33A | 417A2509-5 | | TUBE | B, G | 1 |
| –33B | 417A2509-9 | | TUBE | С, Н | 1 |

-Item not Illustrated

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| FIG/ ITEM | PART NUMBER | AIRLINE PART NUMBER | NOMENCLATURE 1 2 3 4 5 6 7 | USAGE CODE | UNITS PER ASSY |
|--------------|---------------|---------------------------|---|---------------|----------------------|
| 1— | | | | | |
| -33C | 417A2509-13 | | TUBE | D, K | 1 |
| -33D | 417A2509-15 | | TUBE | E, J | 1 |
| 34 | 417A2509-5 | | DELETED | | |
| –34M | 417A2509-9 | | DELETED | | |
| 35 | S417A201-1 | | DELETED | | |
| -35A | S417A201-2 | | DELETED | | |
| 35B | 0A011-0236-1 | | . TANK-POTABLE WATER, NON- METALLIC, 45 GALLON CAPACITY, CAPACITANCE SENSOR (VS5825) (SPEC S417A201-1) | Α, Β | 1 |
| –35C | 0A011-0236-11 | | . TANK-POTABLE WATER, NON- METALLIC, 65 GALLON CAPACITY, CAPACITANCE SENSOR (VS5825) (SPEC S417A201-2) | C-E | 1 |
| -35D | 0A011-0236-21 | | . TANK-POTABLE WATER, NON- METALLIC, 45 GALLON CAPACITY, CAPACITANCE SENSOR (VS5825) (SPEC S417A201-9) | F, G | 1 |
| –35E | 0A011-0236-31 | | . TANK-POTABLE WATER, NON- METALLIC, 65 GALLON CAPACITY, CAPACITANCE SENSOR (VS5825) (SPEC S417A201-10) | н-к | 1 |

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-Item not Illustrated