

**Aviation Fabricators Inc.
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INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

For

P/N 18-0427-XXX Series

Toilet Tanks

Document No.: AF-591

Revision "IR"

Revision Date: 04/09/14

Applicable to:

Beechcraft models C90, C90A, C90GT, E90, F90, A100, B100,
200, 200C, 200CT, 200T, B20, B200C, B200CT, B200T, B300, B300C

The information in the Instruction for Continued Airworthiness is FAA accepted material and complies with 14 CFR 23.1529, Instructions for Continued Airworthiness. It supersedes or adds to that provided in the Maintenance Manual for the Beechcraft 90, 100, 200, or 300 Series Aircraft, only where covered in the items contained herein. For limitations and procedures not contained in the Supplement, consult the Component Maintenance Manual, or other approved airplane data.

REVISION PAGE

Document Title: Instructions for Continued Airworthiness

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Updates to the ICA will be made by Aviation Fabricators Inc. Updates will be listed in the log of revisions and the effective pages will be listed below.

Log of Revisions				
REV. NO.	EFFECTED PAGE(S)	DESCRIPTION	DATE	APPROVED BY
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Per the requirement of Appendix G of 14 CFR Part 23 paragraph G23.1 (c), the changes made to the ICA by the applicant will be distributed via mail by means of paper copy.

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ABBREVIATIONS AND DEFINITIONS

Abbreviations	Definitions
AML	FAA Approved Model List (AML)
Detailed Inspection (DET)	An intensive examination of a specific item, installation or assembly to detect damage, failure or irregularity. Available lighting is normally supplemented with a direct source of good lighting at an intensity deemed appropriate. Inspection aids such as mirrors, magnifying lenses, etc. may be necessary. Surface cleaning and elaborate access procedures may be required.
FAA	Federal Aviation Administration
FAA MIDO	FAA Manufacturing Inspection District Office
General Visual Inspection (GVI)	A visual examination of an interior or exterior area, installation or assembly to detect obvious damage, failure or irregularity. This level of inspection is made from within touching distance unless otherwise specified. A mirror may be necessary to enhance visual access to all exposed surfaces in the inspection area. This level of inspection is made under normally available lighting conditions such as daylight, hanger lighting, flashlight or droplight and may require removal or opening of access panels or doors. Stands, ladders or platforms may be required to gain proximity to the area being checked.
ICA	Instructions for Continued Airworthiness
Special Detailed Inspection (SDI)	An intensive examination of a specific item, installation , or assembly to detect damage, failure or irregularity. The examination is likely to make extensive use of specialized Inspection Techniques and/or equipment. Intricate cleaning and substantial access or disassembly procedure may be required.
STC	Supplemental Type Certificate

1.0 INTRODUCTION

The purpose of this Maintenance Manual Supplement and Instructions for Continued Airworthiness (ICA) is to provide the maintenance technician with the information necessary to ensure the continued airworthiness of the Aviation Fabricators toilet tanks assembly, per part numbers 18-0427-XXX when installed in the aircraft passenger cabin in accordance with Aviation Fabricators design data included on Master Data List AF-580.

Modifications to an aircraft obligates the operator to include the maintenance information provided by this document into the operators aircraft Maintenance Manual and operator's aircraft scheduled maintenance program. This document defines supplementary maintenance operations and frequencies recommended by Aviation Fabricators Inc., to ensure the aircraft's airworthiness.

The information contained herein addresses the requirements specified in 14 CFR 23.1529, Instructions for Continued Airworthiness and supplements the basic Airplane Maintenance Manual only in those areas listed as pertains to the installation of divan assemblies, as installed per the Aviation Fabricators Master Data List AF-580. For limitations and procedures not contained in this supplement, consult the basic Airplane Maintenance Manual.

DATA

All information to support the continued airworthiness of this modification is contained in:

Master Data List: AF-580.

Installation: Installation Instructions D-10700

Parts: P/N's 18-0427-311, 18-0427-380, 18-0427-395

Design Change Control

All data and changes to the toilet tank assemblies will be tracked per Master Data List AF-580 Rev IR or later approved revision.

Applicable Aircraft
Beechcraft models:

P/N 18-0427-311 -- B300, B300C

P/N 18-0427-380 -- C90, C90A, C90GT, E90, F90, 200, 200C, 200CT, 200T,
B200, B200C, B200CT, B200T, B300, B300C

P/N 18-0427-395 -- A100, B100, 200, 200C, 200CT, 200T, B200, B200C,
B200CT, B200T

Toilet Tank Assembly

P/N's 18-0427-311, 18-0427-380 (shown), and 18-0427-395

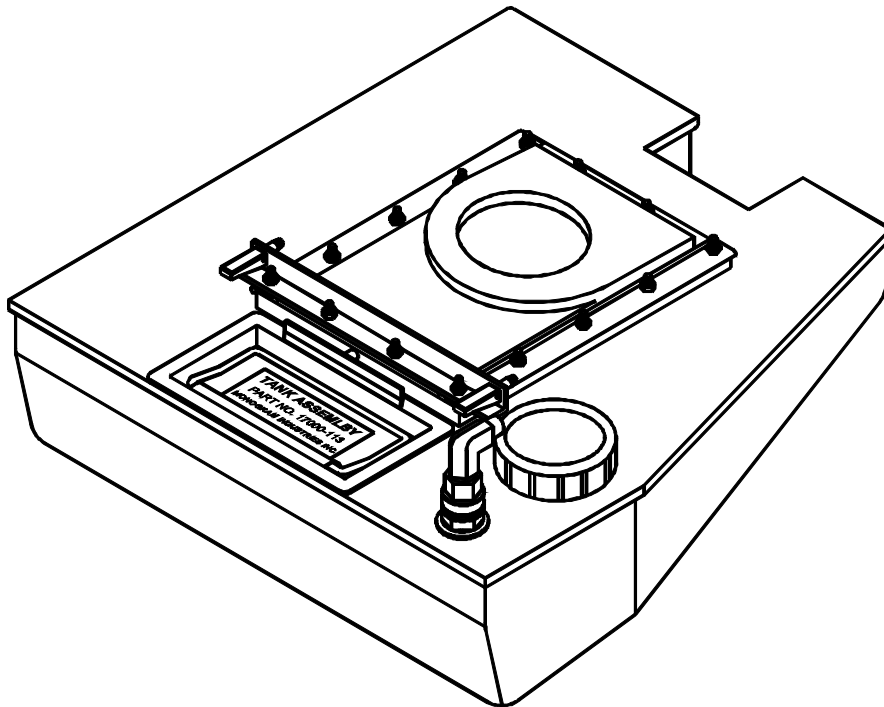


Figure 1.0A

Toilet Tank Removal and Installation

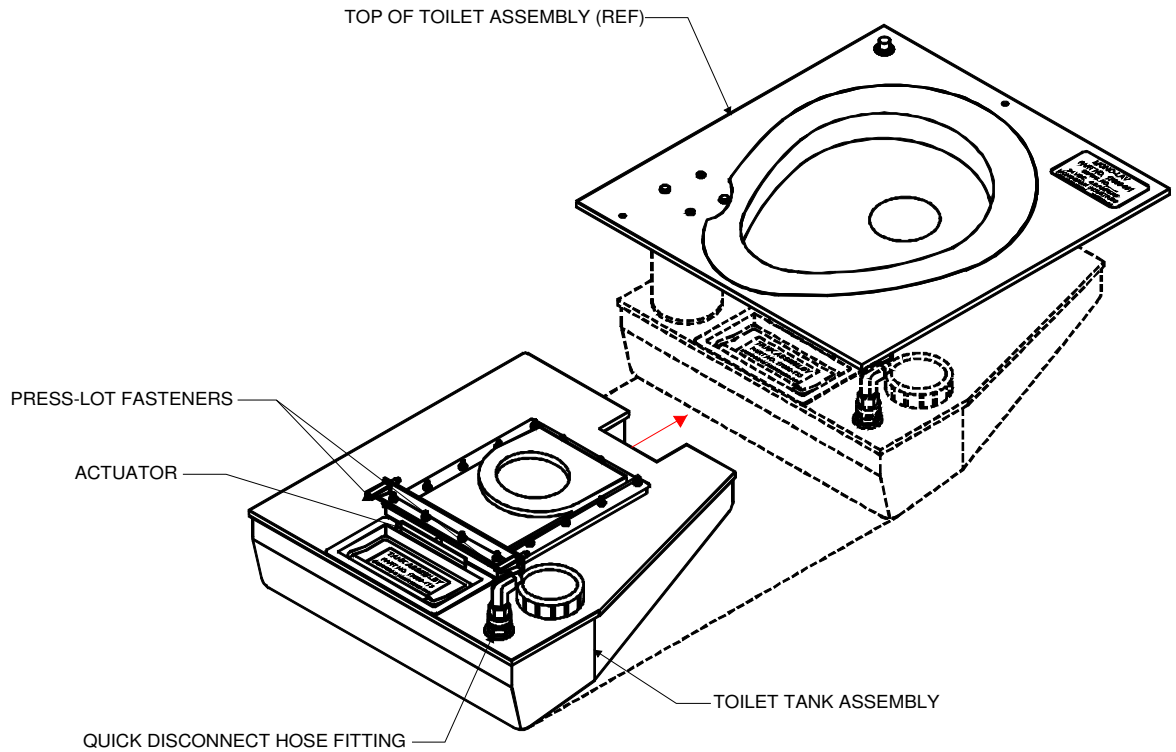


Figure 1.0B

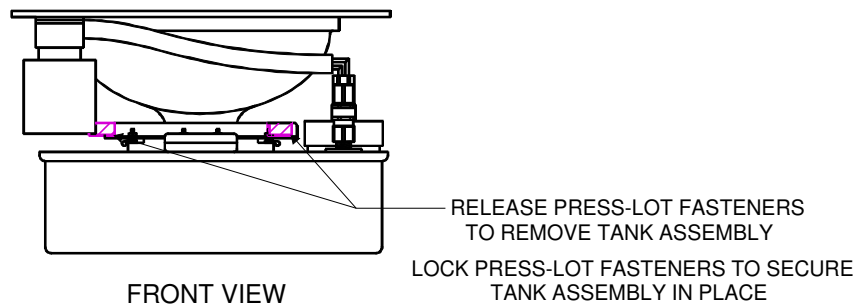


Figure 1.0C

2.0 INSPECTION REQUIREMENTS AND OVERHAUL SCHEDULE

1. To comply with 14 CFR 23.1529, continue the toilet tank assembly on the same inspection and maintenance schedule used per the Beechcraft Maintenance Manual for toilets.

Inspection of the toilet is required during Phase 1 and Phase 3 of the inspection cycle.

Task Code			Schedule	Date	Mech	Insp
AFI-100	a.	Check toilet tank assembly for damage.				
AFI-101	b.	Inspect area for spillage and leakage below toilet assembly.				

3.0 DIMENSION AND ACCESS:

The installation of the toilet tank assembly does not change the dimensions of the aircraft or alter the access to any existing aircraft system.

4.0 LIFTING AND SHORING

No change.

5.0 LEVELING AND WEIGHING

Toilet Tank Assembly empty weight = 6.5 lbs

Note: There is no change in weight for toilet assembly if new tank is used as a replacement for OEM assembly.

6.0 TOWING AND TAXIING

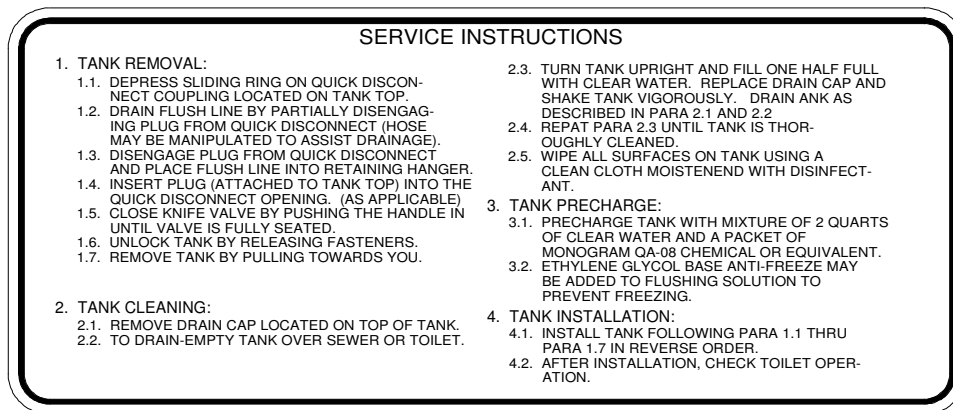
No change.

7.0 PARKING AND MOORING

No change

8.0 PLACARDS AND MARKINGS

1. Placard p/n 18-0427-223 is to be installed on the front of the toilet tank assembly.



9.0 SERVICE INFORMATION

WARNING: FOR SANITARY REASONS, ALWAYS WEAR RUBBER GLOVES (ELBOW LENGTH) WHILE SERVICING OR WHEN HANDLING PARTS WHICH HAVE BEEN IN CONTACT WITH THE FLUSHING FLUID.

The toilet should be serviced during routine ground maintenance of the aircraft following any usage. It is more efficient and convenient to remove, clean, and recharge the toilet tank on a regular basis than to wait until the tank is filled to capacity. If the tank becomes filled above the knife valve, follow the instruction below:

Note: To avoid spillage, do not remove tank when the fluid level is above the knife valve.

- a. Hold a small paper or plastic cup against the bowl interior (preferable at the bowl flush ring outlet).
- b. Depress the "PRESS TO FLUSH" button to circulate flushing fluid.
- c. Pour the flushing fluid into a bucket until the fluid level is below the knife valve.

1. Tank Removal:

See Figures 1.0B & 1.0C

- a. Open front access to the toilet, as applicable, to remove the toilet tank.
- b. Depress the lock ring of the flush hose quick disconnect coupling located on the right side of the tank top.
- c. Drain any residue of flush fluid in the hose by partially engaging the plug from the quick disconnect and manipulating the hose to assist drainage.
- d. Remove the flush hose from the quick disconnect and place hose in the retaining clip located on the underside of the toilet mounting plate.
- e. Install the plug attached to the quick disconnect to seal the opening.
- f. Close the knife valve at the bottom of the toilet bowl by pushing the actuator handle until the valve is full closed.
- g. Press the two Press-Lot fasteners on each side of the knife valve actuator to unlock the tank.
- h. Remove the tank by pulling the recessed carrying handle on the tank top.

2. Tank Installation:

See Figures 1.0B & 1.0C

- a. To install the tank into the toilet assembly complete the tank removal procedure listed above in reverse order.

3. Tank Cleaning:

- a. Remove cap from the pour spout to dispose of tank contents in a sewer or toilet.

4. Tank Precharge:

- a. Charge the tank with a mixture of 2 quarts of water and 1 dissolvable package of Monogram's Chemkare chemical or equivalent.

Note: To assure toilet recirculation system operation during freezing weather, an ethylene glycol base anti-freeze containing anti-foam agent may be added to the flush fluid.

10.0 AIRWORTHINESS LIMITATIONS

The Airworthiness Limitations section is FAA approved and specifies maintenance required under Sec. 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA approved.

There are no Airworthiness Limitations to the aircraft with the addition of the toilet tank assembly.

11.0 TROUBLESHOOTING

Refer to the existing Aircraft Maintenance Manual for troubleshooting the toilet tank assembly that is required beyond the information found on the installation drawing D-10700.

For replacement parts or repair of damage parts:

Contact Aviation Fabricators at (660) 885-8317.

Troubleshooting this installation should only be accomplished by FAA approved repair stations with the appropriate ratings or appropriately rated operator/individuals, with required test equipment and service data.