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SERVICE LETTER 250

Fill Level Display Crack Prevention and Repair

Aircraft Makes/Model(s):	Float Model(s):	Compliance: Optional	By: MAS
Air Tractor AT-802 & AT-802A	10000A	Part Number: 1012098	Approved: DRH
		Date: 1/19/2023	Revision: B

LOG OF REVISIONS

Revision	Description	Date
A	Initial release	8/25/2022
B	Changed Trotter Controls part numbers to Wipaire part numbers, updated kits, removed figure images and tables.	1/19/2023

FAA approval has been obtained for technical data in this publication that affects STC or TSO design compliance.

EFFECTIVITY:

This service letter applies to Air Tractor models AT-802 and AT-802A with Wipline 10000 Amphibian Floats installed per STC SA01795CH and equipped with the Trotter Controls Fill System.

COMPLIANCE:

Optional Compliance

BACKGROUND:

Instances of cracked display glass have been encountered on the Trotter Fill Level Display (Wipaire PN 1011618), resulting from vibration and/or excessive torque on mounting screws combined with the rigid internal structure of the display. This affects only the front/pilot display and not any rear display (two-seater aircraft).

COMPLIANCE METHOD:

Install one of the two kits (preventative versus repair) as instructed in this service letter.

APPROXIMATE SHOP HOURS:

Performing the work instruction will take approximately 2 labor hours to complete per aircraft.

WARRANTY INFORMATION:

This service letter does not include warranty for labor and parts.

TECHNICAL DATA:

Copies of this service letter, associated service kit (if applicable), float service manual, and float parts manual are available by contacting Wipaire customer service.

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ITEMS PROVIDED IN SERVICE KIT 1012098-01 (Parts Required For Preventative Maintenance)

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1012323	DMS-RETROFIT GASKET
2	4	MS51957-28B	SCREW, #6-32

ITEMS PROVIDED IN SERVICE KIT 1012098-02 (Parts Required For Repair - Cracked Glass)

ITEM	QTY	MFG PART NUMBER	DESCRIPTION
1	1	1012323	DMS- RETROFIT GASKET
2	4	MS51957-28B	SCREW, #6-32
3	1	1012322	DMS-FACE PLATE ASSEMBLY
4	1	1012324	DMS F-R GASKET
5	4	1012325	2-56 X 1/4 SCREWS

Work Instructions

1. Position and prepare aircraft for safe maintenance.
2. Dismount the display unit (Wipaire PN 1011618) from instrument panel by removing (4) #6-32 screws. Location on instrument panel varies - refer to Figure 1 for an image of the unit.

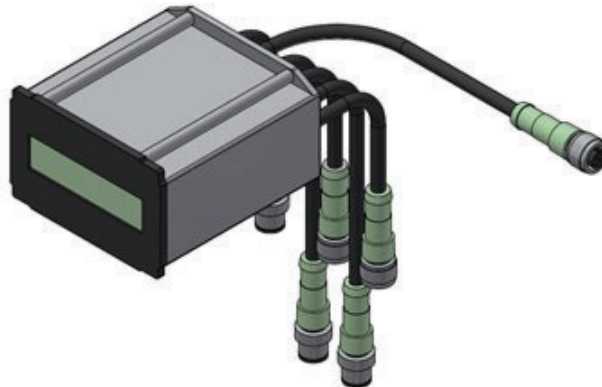


Figure 1 – Trotter Fill Level Display Unit (aka “DMS”)

NOTE: If display glass is cracked, follow the instructions in step 3. Otherwise skip to step 4.

3. **(IF GLASS IS CRACKED)** Remove and replace the faceplate and internal gasket as follows:
 - a. Remove the (4) #2-56 screws shown in Figure 2 and separate faceplate from housing
 - b. Ensure the orange gasket, seen in Figure 3, is also removed from housing.
 - c. Place the new orange gasket (PN 1012324) onto the replacement faceplate (PN 1012322), taking care to align the holes with the pins as seen in Figure 3.

NOTE: If the gasket has an adhesive side, remove the backing and stick that side to the faceplate.

- d. Place the new faceplate onto the housing and secure with the (4) included #2-56 screws (PN 1012325). Torque screws to **3 in-lbs.**
- e. Continue to step 4.

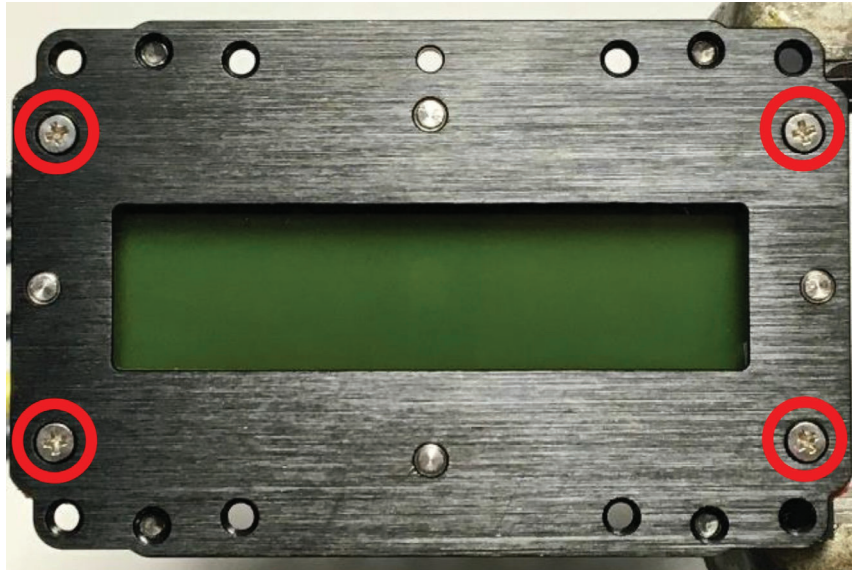


Figure 2 – Faceplate Screws



Figure 3 – Faceplate with Internal Gasket

- 4. Place the external mounting gasket (PN 1012323) onto faceplate, aligning the holes seen in Figure 4.

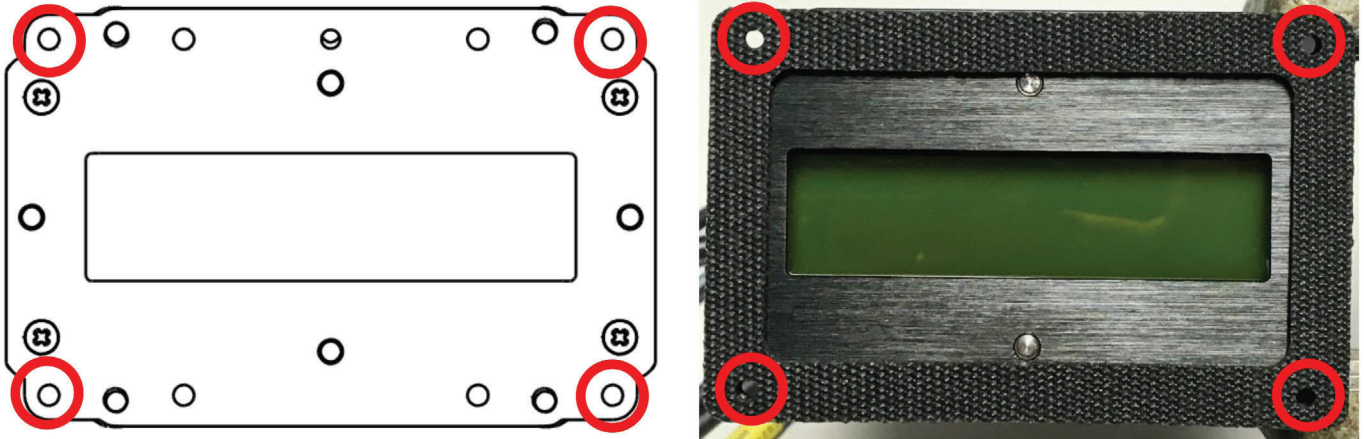


Figure 4 – Mounting Gasket Alignment

5. Apply threadlocker (Loctite 242 (blue), or equivalent) to the (4) included #6-32 screws (PN MS51957-28B).
6. Install the display unit from behind instrument panel and secure with the screws from step 5. Torque screws to **9 in-lbs.**

Aircraft Closing & Return to Service

1. Upon completion of inspection, enter information in Aircraft Logbook for completion of Wipaire Service Letter 250.