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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: 8/25/2022	Revision: A

LOG OF REVISIONS

Revision	Description	Date
A	Initial release	8/25/2022

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	MFG PART NUMBER	DESCRIPTION
1	1	1099-0212	KIT, DMS, GASKET AND HARDWARE

Table 1

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

ITEM	QTY	MFG PART NUMBER	DESCRIPTION
1	1	1099-0213	KIT, DMS, FACEPLATE W/ GASKETS AND HARDWARE

Table 2

NOTE: Details of kit contents can be found in Appendix.

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.

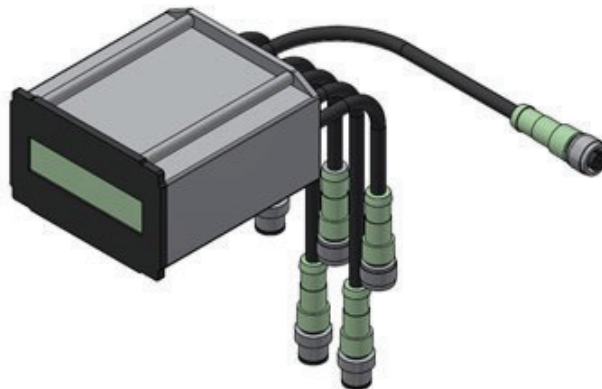


Figure 1 – Trotter Fill Level Display Unit (aka “DMS”)

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 1050-0362) onto the replacement faceplate (PN 1010-0081), 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 17-0146599). Torque screws to **3 in-lbs**.
- e. Continue to step 4.

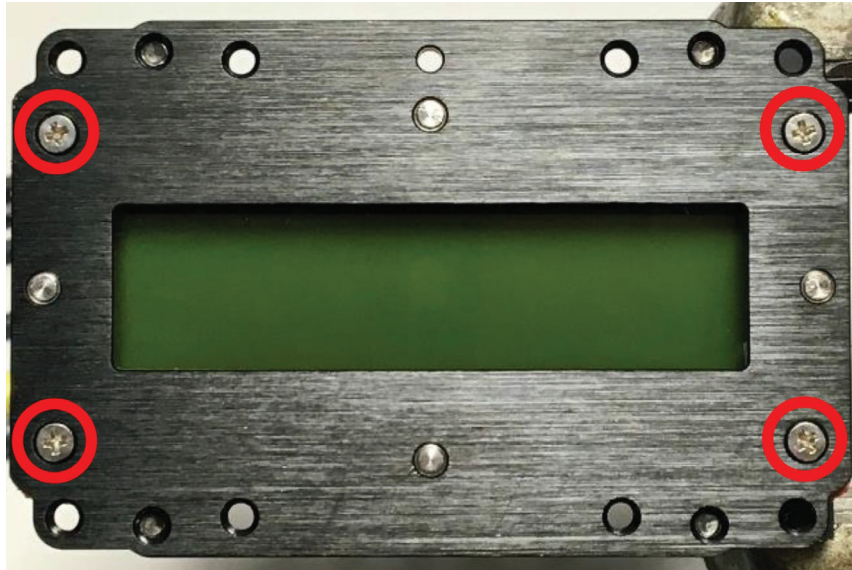


Figure 2 – Faceplate Screws



Figure 3 – Faceplate with Internal Gasket

- 4. Place the external mounting gasket (PN 1050-3473) onto faceplate, aligning the holes seen in Figure 4.

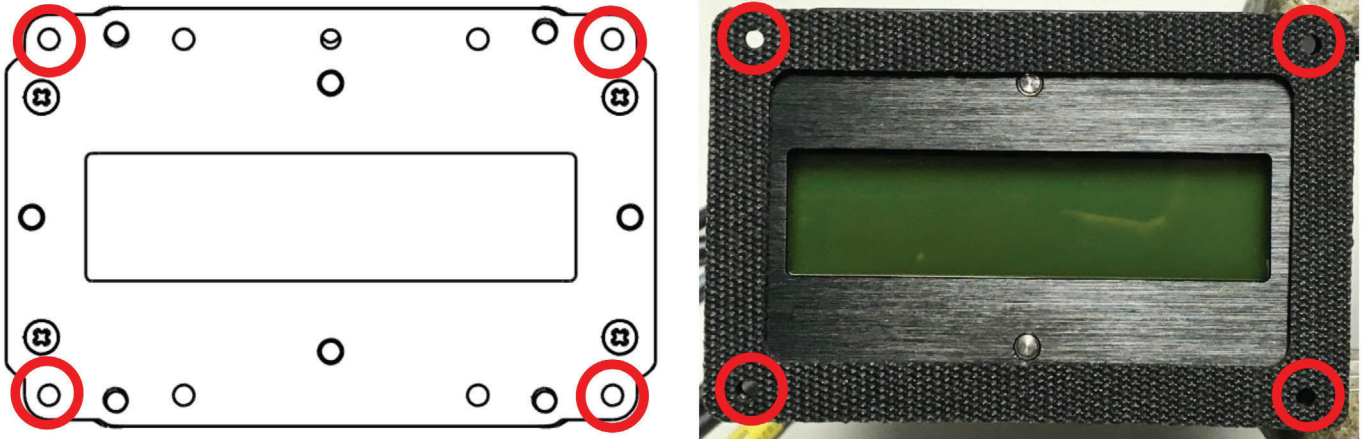


Figure 4 – Mounting Gasket Alignment

5. Apply threadlocker (Loctite 242 (blue), or equivalent) to the (4) included #6-32 screws (PN 17-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.

Appendix - Kit Contents



Figure 5 – Contents of Preventative Maintenance Kit (1012098-01 / MFG PN 1099-0212)

ITEM	QTY	MFG PART NUMBER	DESCRIPTION
1	1	1050-3473	GASKET, MOUNTING
2	4	17-MS51957-28B	SCREW, #6-32

Table 3 – Contents of Preventative Maintenance Kit (1012098-01 / MFG PN 1099-0212)

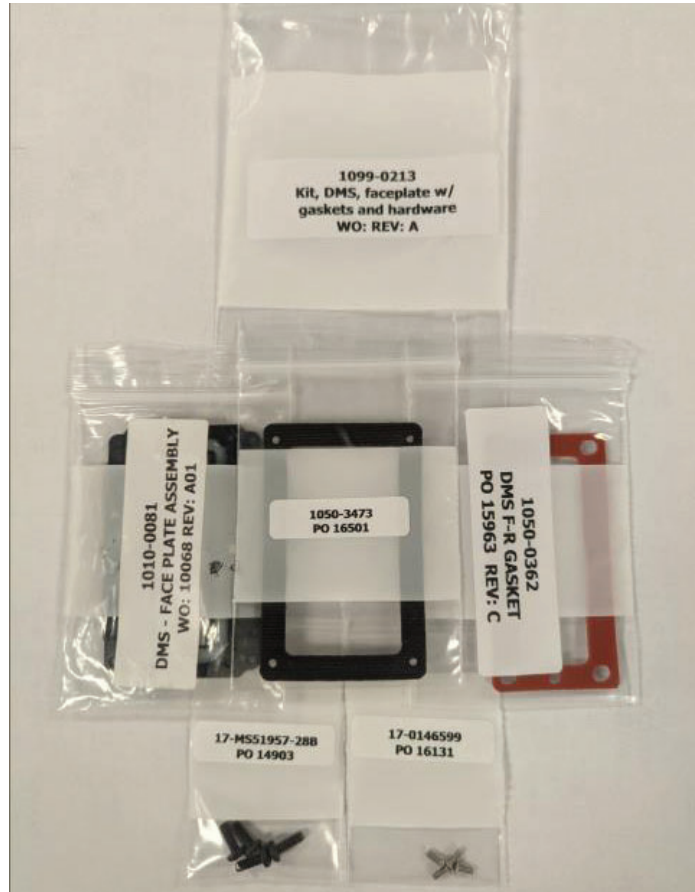


Figure 6 – Contents of Repair Kit (1012098-02 / MFG PN 1099-0213)

ITEM	QTY	MFG PART NUMBER	DESCRIPTION
1	1	1050-3473	GASKET, MOUNTING
2	4	17-MS51957-28B	SCREW, #6-32
3	1	1010-0081	ASSEMBLY, FACEPLATE
4	1	1050-0362	GASKET, INTERNAL
5	4	17-0146599	SCREW, #2-56

Table 4 – Contents of Repair Kit (1012098-02 / MFG PN 1099-0213)