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SERVICE LETTER 227

10000A Floats Inline Filters Replacement

Aircraft Makes/Model(s):	Float Model(s):	Compliance: Optional	By: MAB
Air Tractor AT-802 & AT-802A	10000A	Part Number: 1011841	Approved: SDW
		Date: 4/23/2021	Revision: A

LOG OF REVISIONS

Revision	Description	Date
A	Initial release	4/23/2021

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 & AT-802A with Wipline 10000 Amphibian Floats installed per STC SA01795CH.

COMPLIANCE:

Optional compliance

BACKGROUND:

When hydraulic fluid is returned from the scoop cylinders, it is causing the filter element to chatter against the internal o-ring. The o-ring can fail causing small pieces of o-ring to flow out of the inline filter and into the directional valve. This service letter provides installation instructions to replace the two inline filters from the scoops to the directional valve with bi-directional inline filters.

COMPLIANCE METHOD:

Install provided parts as shown in the Work Instruction section of this service letter.

APPROXIMATE SHOP HOURS:

The work instruction for this service letter will take approximately 3 labor hours.

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 at www.wipaire.com.

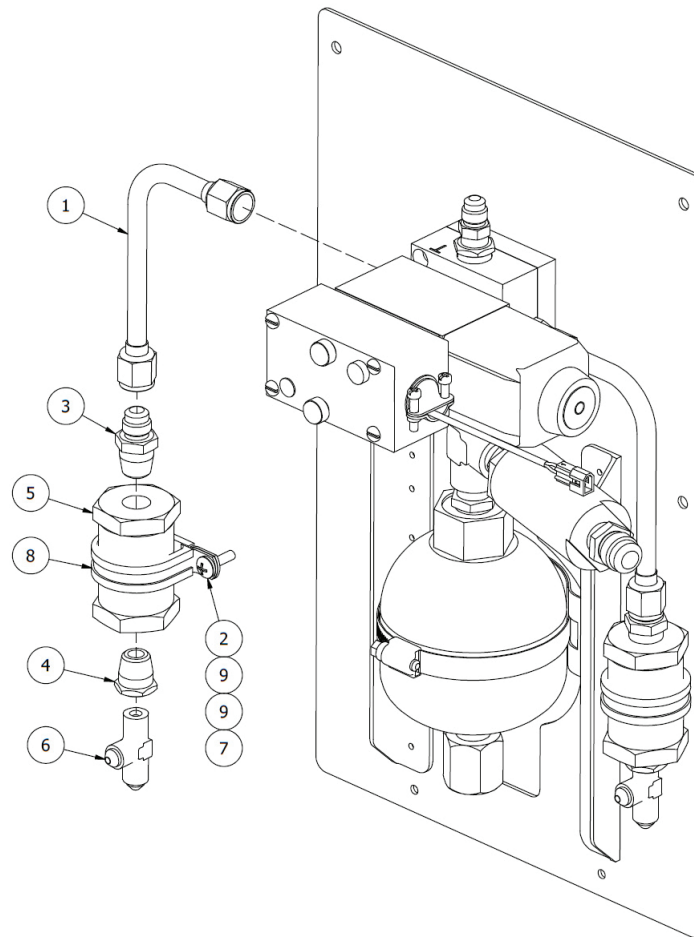
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ITEMS PROVIDED IN SERVICE KIT 1011841-01

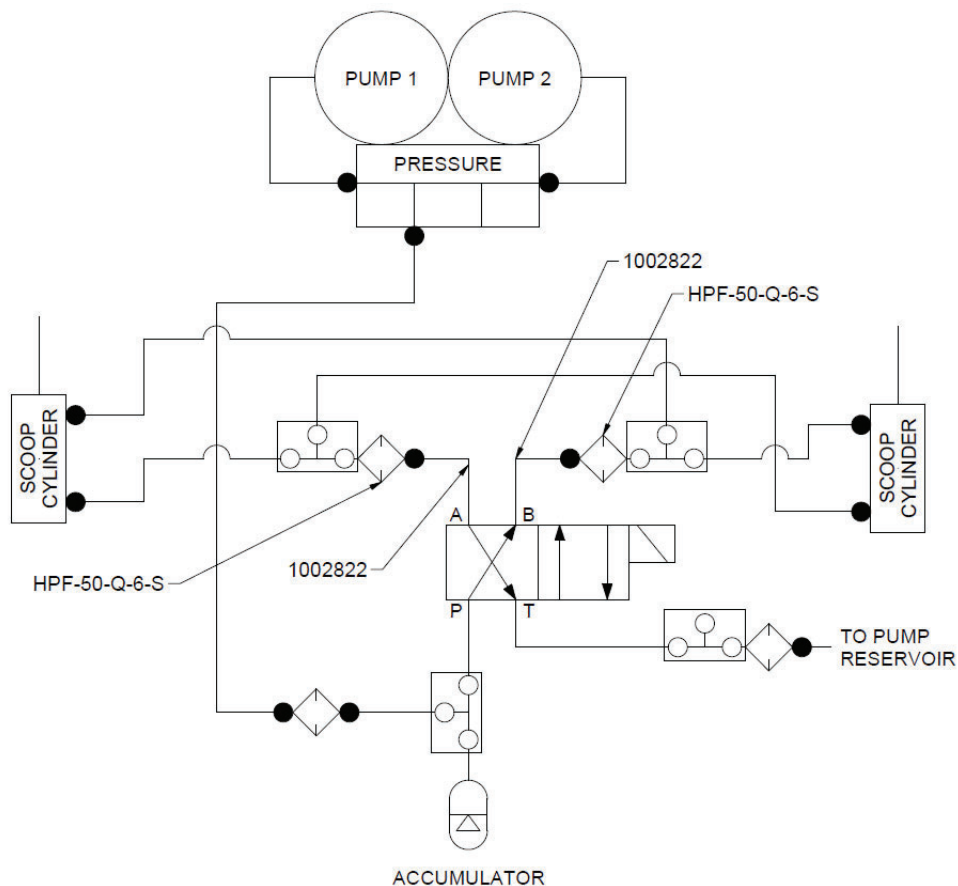
ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	1002822	TUBE ASSY-HYDRAULIC SYSTEM, AT-802
2	2	AN526-1032R12	SCREW, MACHINE, TRUSS HEAD
3	2	AN816-6-6D	NIPPLE, FLARED TUBE AND PIPE THREAD
4	2	AN912-3D	BUSHING, REDUCER
5	2	HPF-50-Q-6-S	FILTER, INLINE, BI-DIRECTIONAL
6	2	MS20826-5D	FITTING, TEE
7	2	MS21044N3	NUT, LOCKING, REGULAR HEIGHT, 10-32 UNF
8	2	MS21919WDG23	CLAMP, 1.438 ID, ALU.
9	4	NAS1149D0363J	WASHER, 0.203 ID, 0.063 THK, ALUMINUM



1003665 ACCUMULATOR ASSEMBLY

Work Instruction

1. Pull Pump 1 and Pump 2 circuit breakers.
2. Relieve pressure in the hydraulic system by cycling gear position selector.
3. Remove 10A09000-299 and 10A09000-300 scoop hydraulic lines from MS20826-5D tee fittings.
4. Unbolt cushion clamps holding inline filters to accumulator assembly.
5. Remove both up and down hydraulic hard line assembly 1002822 from directional valve, ports "A" and "B."
6. Install new fittings into inline filter HPF-50-Q-6-S per image. Use thread sealant with all pipe threads.
7. Install inline filter HPF-50-Q-6-S onto new hydraulic hard line assembly 1002822.
8. Install new hydraulic hard line assemblies onto directional valve manifold fittings, ports "A" and "B."
9. Install MS21919WDG23 cushioned clamps onto inline filters and mount to accumulator plate using supplied hardware.
10. Re-install hydraulic lines 10A09000-299 and 10A09000-300 onto MS20826-5D tee fitting.
11. Ensure gear selector handle is in the appropriate position, and re-engage circuit breakers Pump 1 and Pump 2. Perform a retraction/extension test on both the gear and scoops to make sure system is functioning correctly. Watch the system for leaks and add MIL-H-5606 hydraulic fluid as needed.



HYDRAULIC SCOOP SCHEMATIC

Aircraft Closing & Return to Service

1. Upon completion of inspection, enter information in Aircraft Logbook for completion of Wipaire Service Letter 227.