

**Service Letter #:** SL13-1547502

**Date:** 1/07/2015

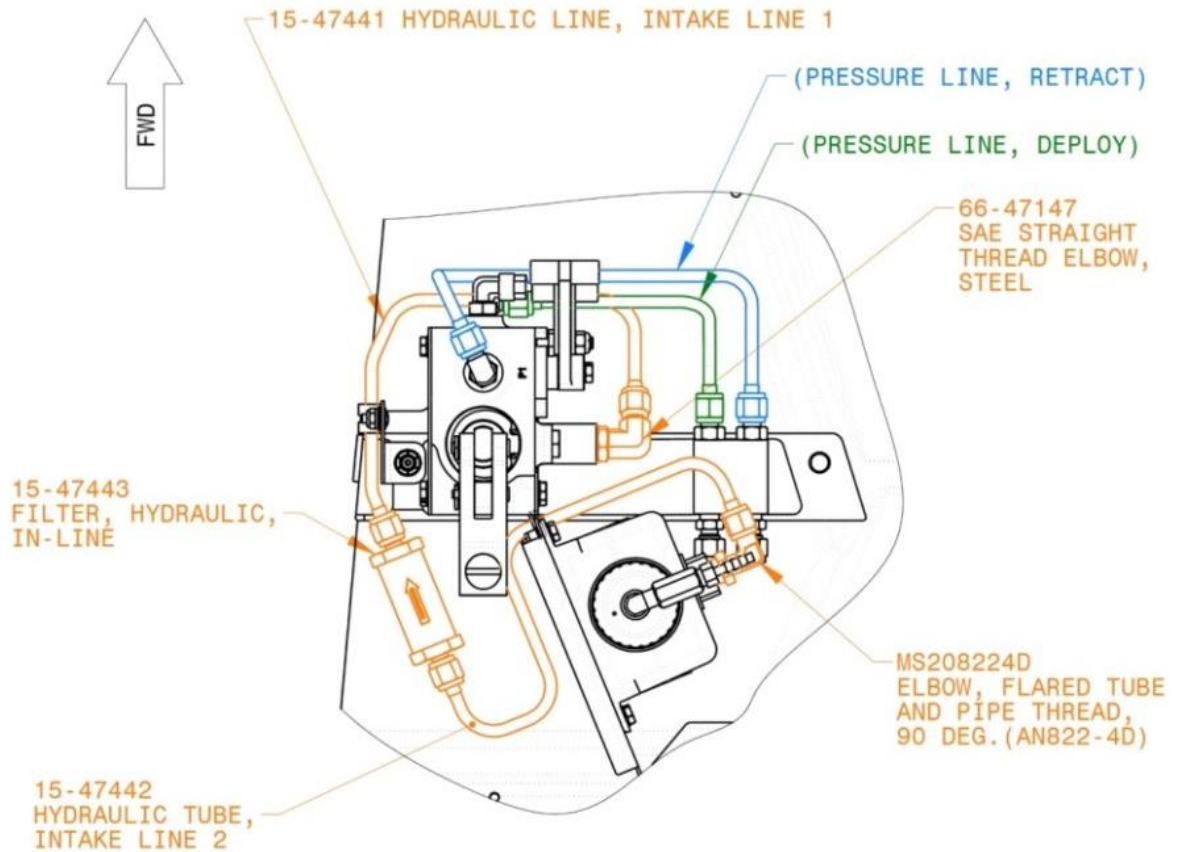
**Part/Assembly #:** 15-47502 In-Aircraft Hydraulic Line Installation, Aerocet Model 1500 Floats.

**Float Model/Aircraft Affected:** 1500 Amphibious Model Floats, Float Serial Numbers 0415-04-1500 and previous.

**Subject:** Product Improvements on Aerocet In-Aircraft Hydraulic Line Installation P/N 15-47502, Aerocet Model 1500 Floats.

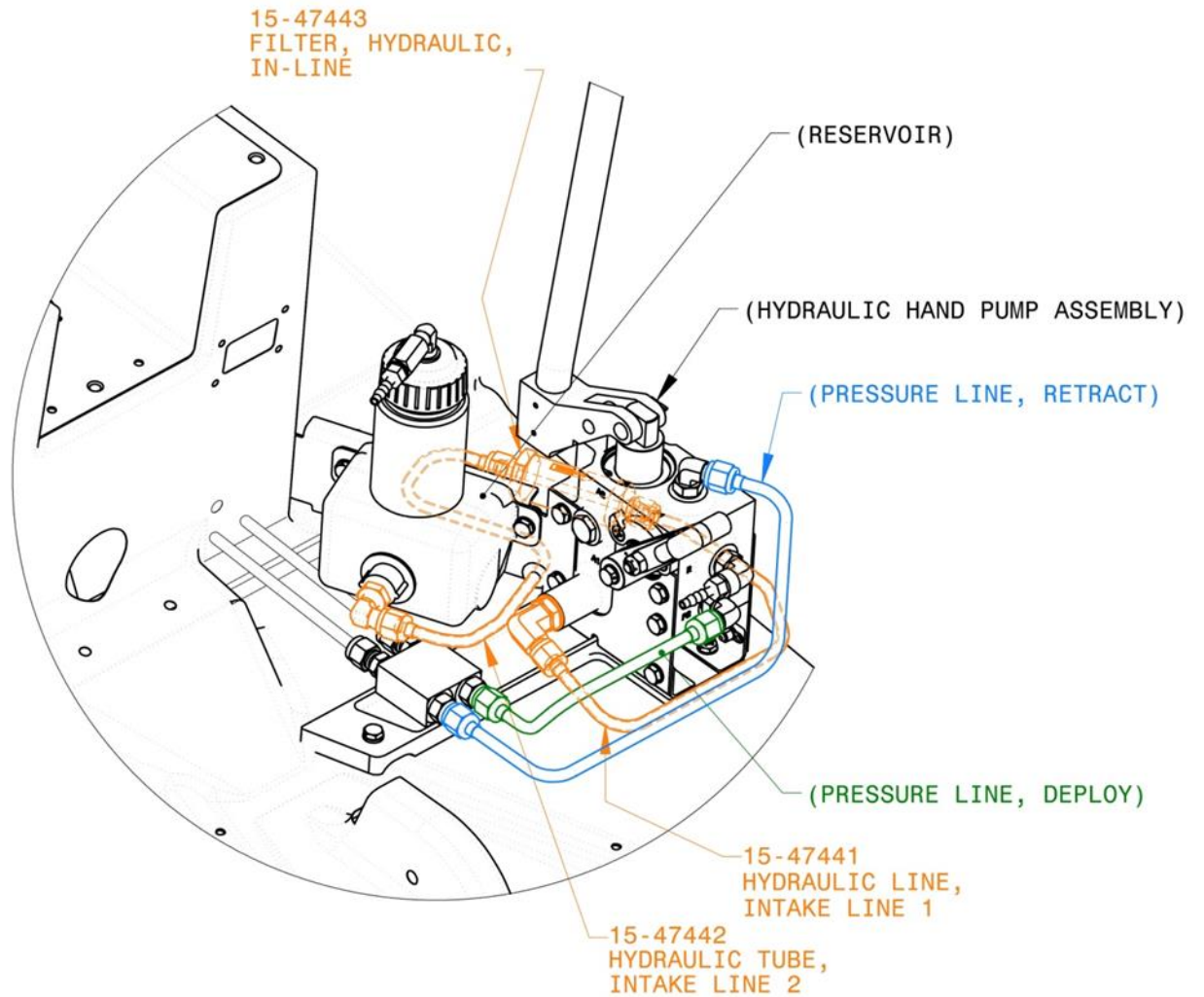
15-47443 Filter, Hydraulic, In-Line

Newer design improvements incorporate an in-line filter to the hydraulic landing gear operation system, between the Hydraulic Reservoir Tank (15-47400) and the Hydraulic Hand Pump (15-47050) inlet port. Add two new hydraulic lines, two 90° fittings and a support bracket to existing aircraft stud. (See Figures) (Note direction of fluid flow and orientation of filter.)

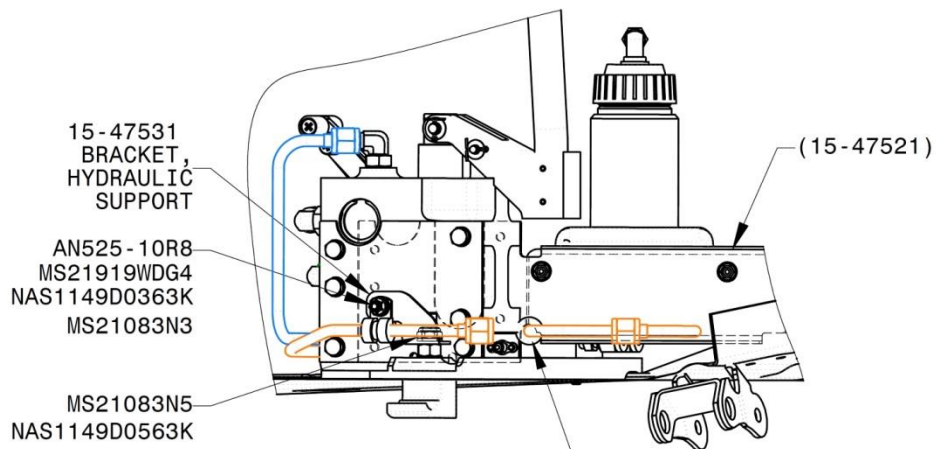


VIEW FROM TOP

**(Fig. 1)**



(Fig. 2)



FOR RETROFIT PURPOSES:  
 REMOVE MATERIAL IN CORNER  
 OF 15-47521 TO A RADIUS  
 OF R.219 (Ø.438) TO ALLOW  
 FITTING OF MS35489 GROMMET  
 GROMMET MUST BE SLIT TO  
 ALLOW INSTALLATION OVER  
 HYDRAULIC TUBE

15-47443 FILTER AND MANY COMPONENTS HIDDEN

**View from outboard, left hand side  
 (Fig. 3)**

**PARTS LIST**

ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION
1	2	PART	15-47254	3/16 TUBE 1/8 NPT, 90 ELBOW
2	1	ASSY	15-47441	HYDRAULIC LINE, INTAKE LINE 1
3	1	ASSY	15-47442	HYDRAULIC LINE, INTAKE LINE 2
4	1	PART	15-47443	FILTER, HYDRAULIC, IN-LINE
5	1	PART	15-47531	BRACKET, HYDRAULIC SUPPORT
6	1	PART	66-47147	SAE STRAIGHT THREAD ELBOW, STEEL
7	1	HRDWR	AN525-10R8	WASHER HEAD SCREW
8	1	HRDWR	MS208224D	ELBOW, FLARED TUBE AND PIPE THREAD, 90 DEG. (AN822-4D)
9	1	HRDWR	MS21083N3	NUT, SELF-LOCKING, LOW-HEIGHT
10	1	HRDWR	MS21083N5	NUT, SELF-LOCKING, LOW HEIGHT
11	1	HRDWR	MS21919WDG4	WEDGE CLAMP
12	1	HRDWR	MS28778-4	O-RING, STRAIGHT THREAD TUBE FITTING BOSS
13	1	HRDWR	MS35489-6	RUBBER GROMMET
14	1	HRDWR	NAS1149D0363K	WASHER, FLAT
15	1	HRDWR	NAS1149D0563K	WASHER, FLAT

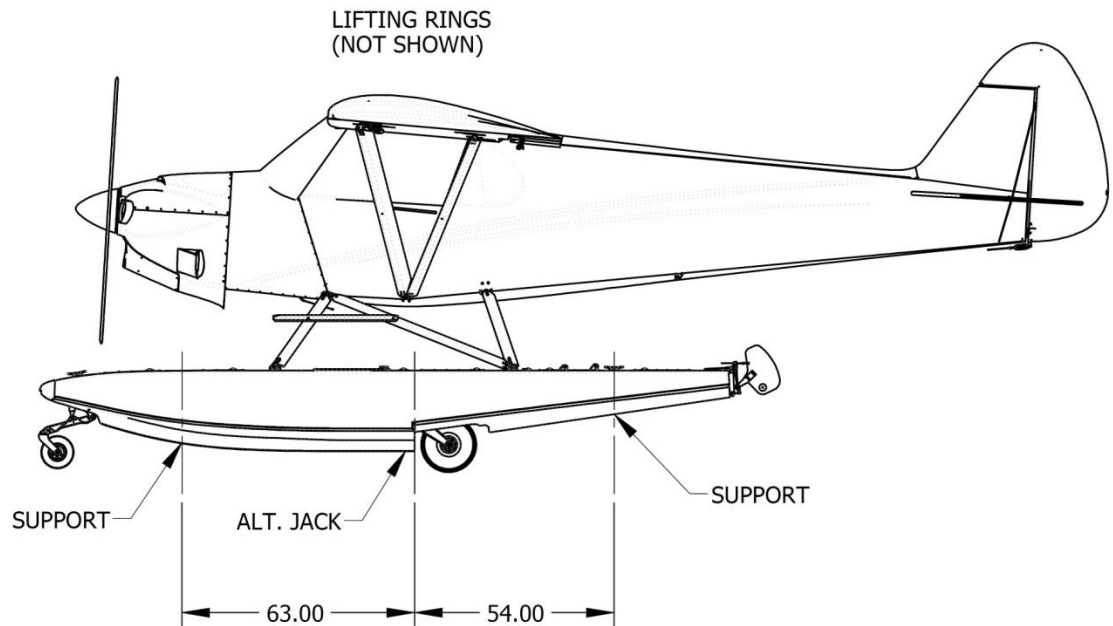
## Procedures:

Installation of 15-47443 Filter, 15-47441 and 15-47442 Hydraulic Lines.

- 1) Lift and support aircraft in accordance with Aircraft Maintenance Manual, using lifting rings on aircraft, with a truss style lift, then supporting the floats at bulkheads in the fore and aft regions.
  - A) Using a length of 1 x 4 lumber to prevent point loading the keel and causing damage to the float:

Supports may be used at bulkhead locations. Recommended locations shown below.

Jacking is recommended at the step if lifting rings and truss system is not available.
  - B) Aircraft must be balanced and secure before proceeding.
  - C) Float landing gear must clear ground and be able to swing freely.



**WARNING**  
**NEVER ACTIVATE FLOAT LANDING GEAR WHILE ON THE GROUND. DAMAGE TO ACTUATORS AND OTHER COMPONENTS WILL RESULT.**

- 2) Drain hydraulic fluid from reservoir into a suitable container as closely to the reservoir as possible to minimize losses. (discard old fluid in accordance with local and federal regulations)
- 3) Remove the existing Hydraulic Line and Fitting from Hydraulic Reservoir and discard.
- 4) Remove Hydraulic Line and Fitting from Hand Pump and discard.
- 5) Install MS208224D Elbow, Flared Tube and Pipe Thread, 90 Deg. In Hydraulic Reservoir Tank Assembly. Direction of Fitting to be similar as shown in (Fig. 2).
- 6) Install 66-47147 SAE Straight Thread Elbow into Hydraulic Hand Pump inlet port. Direction of Fitting to be similar as shown in (Fig. 2).



- 7) For retrofit purposes , remove material in corner of 15-47521 to a radius of R.219 (Ø.438) to allow fitting of MS35489-6 Grommet. Grommet must be slit to allow installation over Hydraulic Tube.
- 8) Install 15-47531 Bracket, Hydraulic Support to existing aircraft stud as shown in (Fig. 3)
- 9) Freely Route Hydraulic Lines and Filter as shown in figures 1, 2, and 3
- 10) Affix 15-47442 Hydraulic Tube, Intake Line 2 to 15-47531 Bracket, Hydraulic Support with MS21919WDG4 Wedge Clamp and associated hardware.
- 11) Torque Hydraulic Lines to 40-65 Inch-Pounds.
- 12) Refill Hydraulic Fluid Reservoir as required. Cycle landing gear up and down without pressuring multiple times or until all air is purged from the system.

This is to be accomplished during the next scheduled maintenance period, not to exceed the next 100 hour or annual inspection.

**Time Required:** 1 hour 15 minutes

Note: Aerocet, Inc. to provide the parts and hardware at no cost. All labor costs for replacement and installation of the upgraded parts are to be covered at the owner's expense.

END