



Wipaire Worldwide
Anywhere, Anytime

SERVICE LETTER: 37

DATE: 4/15/2019

TITLE: Installation-oil filter, float hydraulic system

EFFECTIVITY: Applicable to all Model DeHavilland Twin Otter, Model 300 with Wipline Model 13000 Floats Installed. S/N 1 thru 22

REASON: Hydraulic oil contamination in the landing gear hydraulics.

COMPLIANCE: At owner's discretion.

BACKGROUND INFORMATION:

Hydraulic oil contamination will develop over time in your hydraulic system. This is a variety of dirt, water, and fungi (black Mass), and this will plug the filter screen in your hydraulic oil tank.

The installation of this oil filter system will filter out this contamination and prevent hydraulic pump damage.

NOTE: THE FOLLOWING SHOULD BE DONE ON A REGULAR BASIS.

It is recommended that the hydraulic oil tank be removed, and the oil and filter screen be inspected for contamination. Remove contaminated oil and clean the filter screen.

METHOD OF COMPLIANCE: Installation per Installation drawing 6D1-2287

PARTS REQUIRED: Installation drawing 6D1-2287

SHOP HOURS REQUIRED: 3 Hours

WARRANTY: Parts and Labor for 18 months past the issuance of this service letter.

| REV | DESCRIPTION | DATE | BY/APP'D |
|-----|-------------|------|----------|
| | | | |

662-2153 ASSEMBLY - HYDRAULIC PUMP
 6C3-2151 BRACKET (REF)

AN3-7A BOLT
 AN660P-316 WASHER (2)
 AN365-1032A NUT

RIVET MUST BE DRILLED OUT BEFORE ASSEMBLY

FRONT OF AIRCRAFT

AM470A04 RIVET (10)

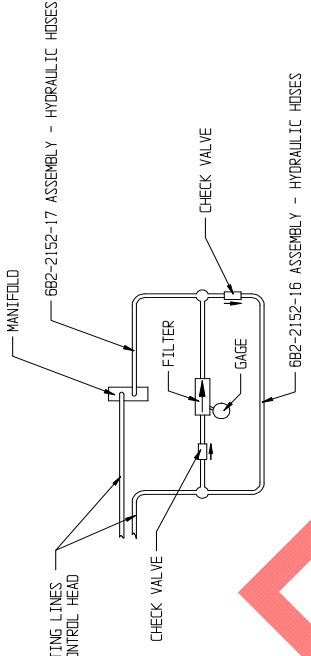
663-2285 MOUNT - FILTER HYD. PUMP (REF)

EXISTING LINES
 TO CONTROL HEAD

662-2152-18 HOSE FILLER TUBE
 6A3-2155 FILTER
 AN816-5-40 FITTINGS (2)

.032 DIA X 12" LONG S.S. SAFETY WIRE (REF)

602-2286 ASSEMBLY - FILTER HYDRAULIC PUMP
 (CS405W10 TYPE 2 EXTRACTOR H2O FILTER)



HYDRAULIC CIRCUIT DIAGRAM

- INSTALLATION PROCEDURE
1. REMOVE AN3-SA BOLT, AN3-6A BOLT ON 5B2-762 ASSY-MANIFOLD
 2. DRILL OUT TWO RIVETS ON 6C3-2151 BRACKET (NOTED)
 3. DIASSEMBLE FILTER ADAPTER FROM 6B3-2285 MOUNT IF NECESSARY
 4. LOCATE & CLECD 6B3-2285 MOUNT BETWEEN MANIFOLD AND 6C3-2151 BRACKET
 5. USE MOUNT TO MATCH DRILL 8 (#30 (.128) DIA) HOLES INTO 6C3-2151 BRACKET
 6. RIVET 6C3-2151 BRACKET AND 6B3-2286 MOUNT USING AM470A04 RIVETS (NOTED)
 7. REMOUNT MANIFOLD USING HARDWARE NOTED ON 602-2286 ASSEMBLY - FILTER - HYDRAULIC PUMP
 8. REASSEMBLE FILTER ADAPTER TO MOUNT IF REMOVED AND SAFETY WIRE

NOTE:
 △ OPPOSITE INSTALLATION, IF EXISTING LINES COME TO PUMP ASSEMBLY FROM REAR OF AIRCRAFT. ROTATE FILTER ADAPTER 180° AND CHANGE HYDRAULIC LINES TO ACCOMMODATE FLOW DIRECTION
 2. DO NOT BACK FLUSH FILTER

| PART | | FINISH | | TOLERANCES | | SCALE | |
|-------|----|---------|-----|------------|-----|-------|-----|
| DR | RF | 1/20/97 | .00 | ±.05 | 1/2 | 1/2 | 1/2 |
| APP'D | LF | 4/15/97 | .00 | ±.05 | 1/2 | 1/2 | 1/2 |

WIPPAIRE INC
 8520 RIVER ROAD, INVER GROVE HEIGHTS, MN. 55076
 TITLE INSTL - FILTER HYDRAULIC PUMP
 PROJ NO. 601-2287