



SERVICE BULLETIN

TO : All S76 C+, C++ Operators
FROM : FDCaerofilter Engineering
SB NUMBER : SB.FDC.S76.0008
CATEGORY : Essential Service Bulletin
EFFECTIVITY : All S 76 C+ Helicopters modified IAW STC SR0616SE
All S 76 C++ Helicopters
DATE : Thursday, November 01, 2007

REPLACEMENT PRESSURE PORT TUBES

1.0 BACKGROUND

Field experience has shown that a leakage is possible at the pressure port tube assembly on either engine, also there is a possibility that the tube nozzle could block, operating in cold (ice /snowing) conditions.

This Service Bulletin introduces a redesigned 1 piece tube assembly that replaces the original tube assembly with a longer probe, and that also eliminates the fitting on the backing plate and a potential leak in the pressure port system.

2.0 COMPLIANCE

Essential Service Bulletin

3.0 COMPLIANCE TIME

1. Within 90 days of materials receipt OR
2. No later than June 1, 2008

4.0 SPARES KIT AVAILABILTY

Order : 1 x Kit SB.FDC.S76.0008 per aircraft
Order From : Helicopter Support Incorporated
Advise Aircraft S/N(s) and kit quantity(s)

Contact By Email : hsius@sikorsky.com

5.0 INSTALLATION TIME

Estimated 5 man hours per aircraft.

6.0 WEIGHT & BALANCE

Not effected

7.0 FLIGHT MANUAL REVISION

Not effected

8.0 DOCUMENTS

S76 C+ : Refer FDC STC SR0616SE data package.

S76 C++ :Refer Sikorsky S76 MM

9.0 INSTALLATION INSTRUCTIONS

A. Remove Barrier Filter

NOTE: Removal of barrier filters is the same for both No. 1 & No. 2 engines.

- (1) Turn off all electrical power.
- (2) Hinge up and secure engine air inlet cowl.
- (3) Disconnect hose assembly from engine water wash union located on forward transverse wall.
- (4) Remove hose assembly and water wash tube from face filter.

CAUTION: BE CAREFUL NOT TO ALLOW FILTER ELEMENT TO CONTACT ENGINE DRIVESHAFT.

- (5) Remove face filter from main filter using the 8 winged 1/4-turn lock fasteners.
- (6) Remove main filter by removing screws and washers on outboard main filter element lock tab. hold the forward edge of element, then rotate main filter clockwise until main filter's bayonet studs are free of mount's bayonet holes.

B. Remove Barrier Filter Mount

- (1) Disconnect mount hose from pressure transducer.
- (2) Remove bolts and flat washers, and remove mount from firewall.

C. Remove Pressure Port

- (1) Remove (Qty x 3) bolts that secure the pressure port to the barrier filter mount.
- (2) Remove Pressure Port.
- (3) Remove fitting that is RTV'ed and protrudes the base plate
- (4) Remove excess RTV on the base plate

D. Install New Pressure Port

- (1) Dry fit the new line on the base plate and mark on the tube where the tube protrudes the front of the base plate
- (2) Remove Pressure Port
- (3) Clean area around the pressure port hole on barrier filter mount with alcohol.
- (4) Install a 1/8" bead of RTV around the OD of the tube on the mark where it protrudes the barrier filter mount.
- (5) Install the Pressure Port on the barrier filter mount.
- (6) Ensure the RTV has completely sealed the junction of the tube and barrier filter mount.
- (7) Let RTV dry per manufacture's recommendation.

E. Install Barrier Filter Mount

- (1) Using bolts and flat washers, install mount on firewall.
- (2) Connect mount hose to pressure transducer.

F. Install Barrier Filter

CAUTION: BEFORE PERFORMING THE FOLLOWING STEPS, CLOSELY INSPECT ENGINE BELLMOUTH AND FILTERS FOR FOD. REMOVE FOD IF FOUND.

CAUTION: BE CAREFUL NOT TO ALLOW FILTER ELEMENT TO CONTACT ENGINE DRIVESHAFT.

- (1) To install the main filter on mount, hold the forward edge of element position the main filter so that its attached ears are positioned on either side. Insert the main filter's bayonet studs in mount's bayonet slots and rotate assembled main filter counterclockwise. Using screws and flat washers, secure outboard main filter element lock tab to mount.
- (2) Install face filter on main filter using the 8 winged 1/4-turn fasteners.
- (3) Install hose assembly and water wash tube in face filter.
- (4) Attach the free end of hose assembly to engine water wash union on the forward transverse wall.
- (5) Hinge close and secure engine air inlet cowl.
- (6) Perform engine ground power assurance check.
(Refer to Flight Manual.)

NOTE: If ground power assurance cannot be accomplished, in-flight power assurance may be performed.

- (7) Carry out Log Book entry(s)
- (8) Return completed SB.FDC.S76.0008 Feedback sheet

10. CONSUMABLE TABLE

Silicon Adhesive Sealant RTV 106 or RTV 159
OR
Dow Corning 736 Heat Resistive Sealant

11. REPLACEMENT PARTS

Old and New pressure port tubes shown for clarity

12. SERVICE BULLETIN STATUS

The content is of this Service Bulletin is FAA Approved

Pressure Port Tube



FDC Engineering

Russell Goulden
Vice President



SERVICE BULLETIN COMPLIANCE ADVICE

SB.FDC.S76.0008

TO : FDC Engineering
FROM :
COMPANY :
AIRCRAFT : S/N(s)
PHONE :
FAX :
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DATE :

I have fully complied with FDC SB.FDC.S76.0008

NAME :
POSITION :
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IMPORTANT NOTE

**SERVICE BULLETIN COMPLIANCE ADVICE TO BE SENT TO
HELICOPTER SUPPORT INCORPORATED
ATTENTION : PRODUCT SUPPORT DIVISION**