



## **SERVICE BULLETIN**

**TO** : All AS350FX Operators  
**FROM** : FDC/aerofilter Engineering  
**SB NUMBER** : SB.FDC.AS350.0011  
**CATEGORY** : Recommended Service Bulletin  
**EFFECTIVITY** : All FDC/aerofilter equipped AS350FX Helicopters being modified IAW STC SR01049SE Rev L, May 16 2008.  
**DATE** : Thursday, July 03, 2008

---

### **BYPASS INLET PORT(S) RELOCATION REV**

#### **1.0 BACKGROUND**

This STC revision changes the height of the bypass doors as the overall height of the inlet flange is reduced by 0.600". This requires minor composite work to fill in a portion of the lower bypass port area on each side of the engine cowl.

#### **2.0 COMPLIANCE**

At Modification to Rev L, STC Revision date May 16 2008.

#### **3.0 COMPLIANCE TIME**

At installation of Rev L to previously modified aircraft

#### **4.0 SPARE KIT AVAILABILITY**

N/A

#### **4.0 INSTALLATION TIME**

Est. 2.5 man-hours. (In addition to the kit installation)

#### **5.0 WEIGHT & BALANCE**

Not Affected

#### **6.0 FLIGHT MANUAL REVISION**

Not Applicable

#### **7.0 DOCUMENTS**

Refer FDC STC SR01049SE data package, Rev L MDL.

## 8.0 INSTALLATION INSTRUCTIONS

- 1) Extend cut outs in cowling sides to allow for new higher location of by-pass screens (P/Ns 1350P1-70 & 1350P1-80) and closures (P/Ns 1350P1-150 & 1350P1-160). Remove the core material as per the Installation Instructions 1350-INST-1, Section 2.3.4, paragraph (f) where the extended cut out has been made.
- 2) Ensure correct fit of bypass closures (P/Ns 1350P1-150 & 1350P1-160). Using a straight edge resting under the protruding horizontal flange of each closure, project and mark the location on the skins of the cowling fore and aft of the opening to the height that the lower edge of the cut out needs to be raised to.
- 3) Prepare two pieces per cut out of MDF/ Plywood or similar smooth, flat and semi-rigid material and cover one side with clear glossy packing tape to act as a mold release.
- 4) Prepare surface of existing potting compound by sanding with 60 grit or coarser sandpaper, if the surface has been painted, sand all paint off so that the new potting compound will be bonding directly to the old potting compound. Remove all sanding dust with compressed air and then clean all surfaces with Acetone and clean white paper towels to ensure a dust- and oil-free bonding surface.
- 5) Clamp both previously prepared and taped MDF/ Plywood pieces (Step 3) to the cut-out area, one inside and one outside, so that the taped surfaces are facing each other, inline or slightly above the reference marks that were made in step 2. These will act as dams to hold the new potting compound in place while it is curing.
- 6) Mix supplied potting compound as per the instructions and carefully using a flat tool, e.g. spatula or putty knife fill the void between the taped boards and up into the extended opening. Allow to cure.
- 7) Once the potting compound has cured, remove the taped MDF/ Plywood pieces. You will now have to reinforce the area around the bypass cut outs where the potting compound is standing proud of the existing inner and outer cowling laminates.
- 8) Carefully scarf the existing inner and outer laminates as per AC43.13, Chapter 3, Section 1 and apply the required fiberglass laminates to complete the reinforcement of the potting compound that was used to extend the lower lip of the bypass closure cut out. Allow fiberglass laminates to cure.

- 9) Once all the above steps have been completed you can proceed with locating and bonding in of the inserts (P/N 404HE832-07) that hold the closure screen housing in place.



**Russell Goulden**  
**Certification Manager**