



SERVICE BULLETIN

TO : All AS350B Operators
FROM : FDC/aerofilter Engineering
SB NUMBER : SB.FDC.AS350.0012
CATEGORY : Optional Service Bulletin
EFFECTIVITY : All AS350B Helicopters modified IAW STC SR00811SE
DATE : Monday, July 21, 2008

INLET PLENUM WEAR PLATE REPLACEMENT

1.0 BACKGROUND

Due to operator reports of excessive wear of the aluminum inlet plenum wear plates on AS350B-series aircraft upon the introduction of the new Eurocopter inlet plenum seal, operators may now carry out field replacement/repairs. This Service Bulletin details the repair/replacement procedures. FDC will introduce a kit 4Q, 2008.

2.0 COMPLIANCE

As required

3.0 COMPLIANCE TIME

As required

4.0 SPARE KIT AVAILABILITY

Expected 4Q, 2008

5.0 INSTALLATION TIME

Est. 1.0 man-hour (excludes parts fabrication time).

6.0 WEIGHT & BALANCE

Not Affected

7.0 FLIGHT MANUAL REVISION

Not Applicable

8.0 DOCUMENTS

Refer FDC STC SR00811SE data package.
FDC/aerofilter 1350-SERIES-ICA-1, Dated 11 February 2008

9.0 REPAIR/REPLACEMENT INSTRUCTIONS

NOTE:

ENSURE THAT STANDARD PRACTICES AS PER AC43 & MANUFACTURERS MANUALS ARE COMPLIED WITH.

- (1) Fabricate replacement inlet plenum wear plates using the sketch in Figure 1. Material must be stainless steel (CRES) 301, 304, 316 or 401, hardness as available. Material must be no less than .060" thick, prefer .075" thick.
- (2) Remove filter element from aircraft. Remove cowl and housing from aircraft and place upside-down on padded bench.
- (3) Remove rivets in worn inlet plenum plates as shown in Figure 2. Remove and discard used wear plates from filter housing.

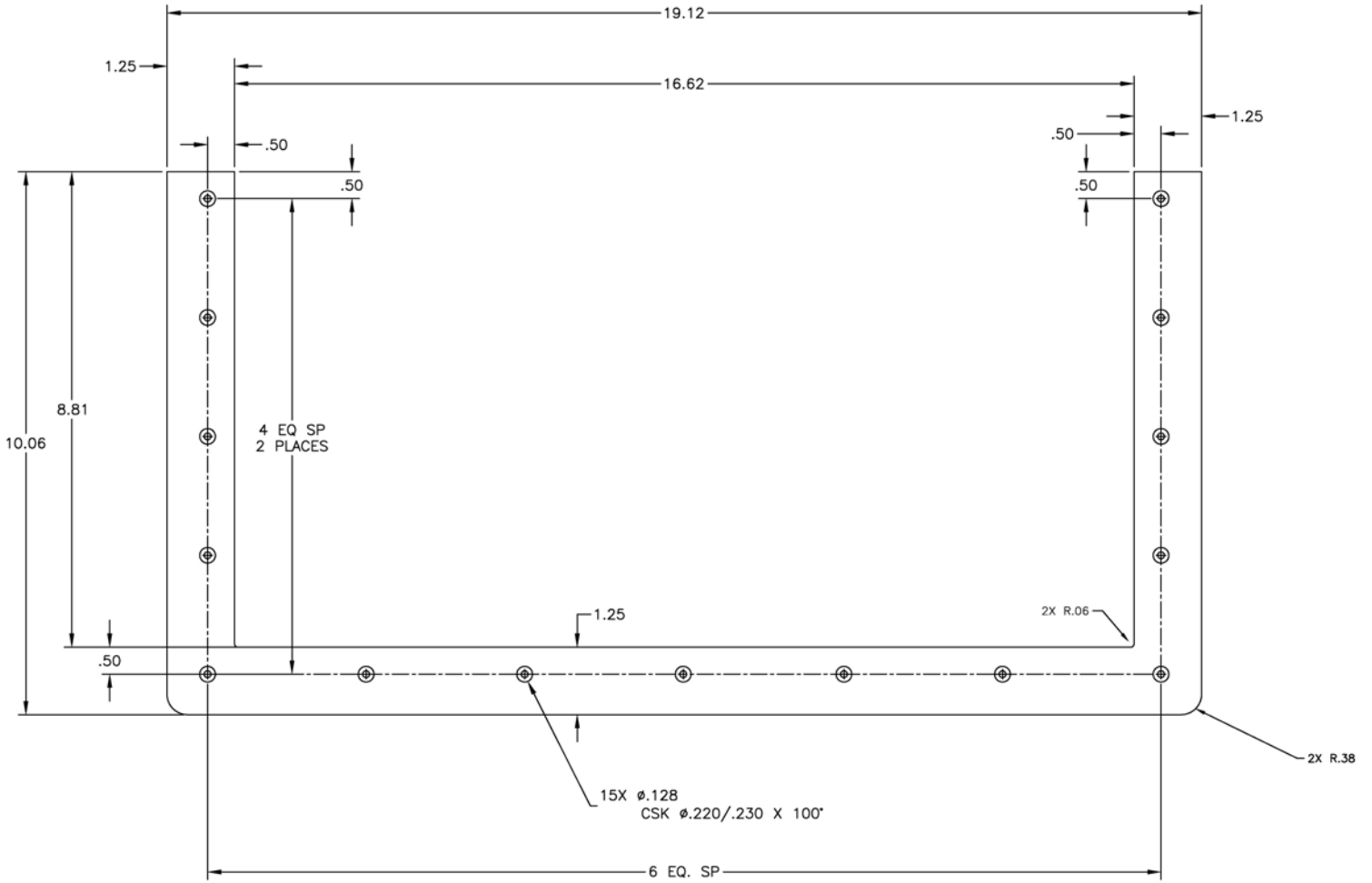
CAUTION:

TAKE PRECAUTIONS TO AVOID DAMAGING FIBREGLASS STRUCTURE WHEN REMOVING RIVETS. DO NOT EXERT EXCESSIVE FORCE ON FIBREGLASS FILTER HOUSING, AS DAMAGE TO HOUSING AND COWL MAY RESULT.

- (4) Install new inlet plenum wear plates using MS20426AD4 rivets (Qty: 30 per aircraft) of an appropriate length to fasten the plates to the housing. (**SEE NOTE BELOW**) Note that the original material thickness is .080".
- (5) Replace cowl and housing onto aircraft and reinstall filter element.
- (6) Upon completion of this repair, make an appropriate maintenance entry in the aircraft log book or equivalent.

NOTE: As an alternative, NAS514P632-6P or -7P screws (Qty: 30 per aircraft), MS21042-06 nuts (Qty: 30 per aircraft), and NAS1149FN632P (Qty: 30 per aircraft) washers may be used in place of rivets to attach new inlet plenum wear plate to the filter housing. Note that holes and countersinks in inlet plenum wear plates will have to be enlarged to accommodate screws. Tighten screws to standard torque for screw size and apply thread-locking compound.

**FIGURE 1 :
INLET PLENUM WEAR PLATE
(SET OF 2 PER AIRCRAFT)**



All dimensions given in inches

**FIGURE 2 :
VIEW OF INLET PLENUM WEAR PLATES FROM UNDERSIDE**



FDC Engineering

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