

SERVICE BULLETIN 117      **MANDATORY**

SUBJECT: Alternate air door: possible fatigue separation leading to ingestion of metal particles into the engine.

APPLICATION: All Glasair III aircraft and any Glasair I, II, or II-S aircraft fitted with the fuel-injected induction system air filter assembly.

DESCRIPTION: Metal fatigue from engine vibration has led to several instances of the alternate air door hinge or rivets separating from the cover plate on the injected engine induction system air filter assembly. If this occurs, metal fragments can be ingested into the engine.

SOLUTION: There are two alternative solutions to this problem, eliminating the alternate air door completely or installing a screen to catch metal fragments resulting from disintegration of the alternate air door assembly.

\*\*\*\*\* WARNING: One of the following two solutions is MANDATORY. \*\*\*\*\*

ELIMINATING THE ALTERNATE AIR DOOR

Fabricate a new air filter cover plate from a 12" x 12" .063" 2024-T3 aluminum sheet (Stock no. 750-0240-003) without the opening for the alternate air door. Rivet the inlet flange and the air filter securing flange onto the new cover plate and install it in place of the original cover plate.

WARNING: If you choose this alternative, placard the aircraft against flight in instrument meteorological conditions. With no source of alternate air, icing conditions encountered in IMC could lead to engine failure.

INSTALLING AN INLET SCREEN

Obtain a stainless steel wire mesh screen (Stock no. 620-0311-002) and rivet it in place between the air filter cover plate and the stainless steel inlet flange. Bed the screen in place with RTV silicone sealant before riveting the assembly back together. The RTV will help prevent the screen itself from disintegrating as the result of fatigue from vibration.

The materials needed to accomplish either of these modifications are available from Stoddard-Hamilton Aircraft. Contact our order desk for information.



MODEL	ASSEMBLY NAME	REVISION	DATE	VOLUME	PAGE
GLASAIR	SERVICE BULLETIN 117		11/9/93		1 of 1