

SERVICE BULLETIN 111 MANDATORY

SUBJECT: Flap Plunger Bolt, Possible Failure

APPLICATION: All Glasair I aircraft

DESCRIPTION: We recently received a report of an incident in which the flap plunger bolt failed while the flaps were extended during final approach, causing the flaps to retract suddenly. The failure occurred after several hundred hours of flight time.

NOTE: The flap plunger bolt is an AN4-13A or AN4-14A bolt with the end machined to fit into the notches in the flap ratchet plate. Early Glasair I kits were supplied an AN4-13A bolt, which the builder modified by filing the threads off the end. Later Glasair I kits were supplied an AN4-14A bolt that had been modified at the factory.

SOLUTION: Replace the flap plunger bolt at every second annual inspection. In the intervening annual inspections, examine the end of the bolt for cracks and wear. Replace the bolt if cracks are found or if significant wear is evident.

WARNING: Replacing the flap plunger bolt at the specified frequency is **MANDATORY**.

Replacement flap plunger bolts are available from Stoddard-Hamilton Aircraft. Order stock number 150-0315-001. Our current stock of these parts are machined AN4-14A bolts. In the future, the flap plunger bolts will be manufactured from NAS6604-18 bolts, which have a higher tensile strength.



MODEL GLASAIR I	ASSEMBLY NAME SERVICE BULLETIN 111	REVISION	DATE 4/30/92	VOLUME	PAGE 1 of 1
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