

**BULLETIN 106 MANDATORY**

**SUBJECT:** Bolts Securing the Elevator Hinge Brackets to the Stabilizer Shearweb.

**APPLICATION:** Glasair II, II-S, and III Aircraft Shipped before 06/24/91.

**REFERENCE:**

<u>AIRCRAFT</u>	<u>REVISION</u>	<u>DATE</u>	<u>PAGE</u>
II and II-S RG	E	10/1/90	B-32
II and II-S FT	E	1/01/91	B-32
II and II-S TD	E	6/13/91	B-32
III	H	7/01/91	B-32

**DESCRIPTION:** The AN4-7A bolts originally specified for attaching the elevator hinge brackets to the stabilizer shearweb may be too short to fully engage the nutplates in some airplanes. The specification was changed from AN4-7A bolts to AN4-10A bolts in the Instruction Manual revisions listed above, and the longer bolts were shipped with all kits after 06/24/91. Aircraft whose stabilizer assemblies were completed before the date of the Instruction Manual revision, however, may still have the incorrect short bolts installed.

**SOLUTION:** For Glasair aircraft whose stabilizers were completed before the date of Revision E (II and II-S models) or Revision H (III models), check the length of the bolts that attach the elevator hinge brackets to the stabilizer shearweb. The correct bolts are AN4-10A bolts, which are 1" long measured from the underside of the head to the end of the bolt.

**WARNING:** Any short bolts must be replaced with the correct size before further flight.

When reinstalling each AN4-10A bolt, use one (1) AN960-416 washer under the head. If there is a variation in shearweb thickness causing the threads of any bolt to bottom out in the nutplate before it cinches up tightly against the washer, use an extra washer under the head. Also, in this case, perform a construction review to assure that all the proper laminates were installed.

**NOTE:** As a further check, an AN4-10A bolt inserted into the bolt hole but NOT threaded into the nutplate should have about .30" of shank showing between the hinge bracket and the underside of the bolt head. No washer is used for this test fit. If this test reveals less than .30" between the underside of the bolt head and the hinge bracket (with no washer), use a longer bolt.

**CAUTION:** Use care when working with the nutplates, as they are very difficult to replace after the stabilizer is closed.

**PARTS:** Twelve (12) AN4-10A bolts are enclosed with the original issuance of this service bulletin, in case they are needed to replace incorrect bolts. Any future request for this service bulletin will not include the hardware; upon request, however, the parts will be shipped and charged at the current retail price.



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