

SERVICE BULLETIN 22

SUBJECT: Fitting of the Engine mount.

APPLICATION: Glasair III aircraft; S/N 3001 thru 3020.

Description: It has come to our attention that some builders have had problems installing their engine mount to the firewall. After researching this problem Stoddard Hamilton has found that the engine mount supplied in kits 3001 thru 3020 will fit up to the firewall but may require some minor modification.

DISCUSSION: The proper contour of the fuselage around the firewall is crucial to the engine mount installation. Use the firewall template supplied with your kit to maintain the proper contour of the cowl flange during the seaming of the fuselage halves and forward belly panel.

LOWER ENGINE MOUNT SUPPORTS

Follow your Glasair III instruction manual for the installation procedures concerning the firewall. Place the engine mount in position and check the lower corners for proper fit.

LEVELING THE ENGINE MOUNT

Leveling the engine mount to the fuselage (verify the fuselage is level) by using the nose gear trunion mounting holes on the engine mount as references for leveling. Insert a straight rod through the trunion mounting holes and place a level on the rod to level the engine mount. It is much more important that the nose gear is in alignment relative to the fuselage, than having the engine perfectly level.

If the mount will not line up properly in the lower corners grind the plates on the engine mount in the lower corner clusters just enough to allow the mount to line up. DO NOT GRIND INTO THE WELD UNDER ANY CIRCUMSTANCES. Deburr areas that were ground and paint these areas to prevent corrosion.

NOTE: The upper and lower engine mount points can be flexed together somewhat if necessary.

If the engine mount still does not fit then cut a slot into the flange used to hold the cowling. The slot should be made just large enough to allow the engine mount lower plates to slide in position. Cutting the slot will not affect the structural strength of the engine mount supports on the firewall.



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CENTER ENGINE MOUNT SUPPORTS

The lower center engine mount supports require a .375" thick aluminum shim which is supplied with the kit. The instruction manual only mentions building up to the engine mount center supports. This is incorrect. Install the engine mount with the .375" shims between the firewall and engine mount center supports. Measure the remaining gap between the shim and the firewall and divide this amount by .015 (the thickness of one layer of laminate) to give you the additional layers of laminates required to eliminate any gap.

Some kits were shipped AN6-30 bolts for the center support installation. The correct size is AN6-33. These correct size bolts will be shipped to you.

If you have any questions concerning the above steps please call our Technical Support Department (206/435-8534) for further details.


STODDARD-HAMILTON
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