

SERVICE BULLETIN 132

SUBJECT: Glasair Super II-S Rudder Pedal Control Weldments

APPLICATION: Super II-S aircraft kits, S/N 2281 through 2306

DESCRIPTION: A production run of Super II-S Rudder Pedal Control Weldments was made with pedal mount riser tubes that are 1/2" too tall. If mounted normally, this would cause problems with rudder pedal actuation of the brake master cylinders and positioning of the pedals in relationship to the bottom of the header fuel tank.

To determine if your kit is affected, measure the height of the center of the rudder pedal pivot point from the center of the pedal control weldment pivot tube. The correct dimension for this assembly is 6-7/8". The units in question measure 7-3/8". Refer to flag note 1, FIGURE (1). If your rudder pedal control weldments measure 7-3/8", this bulletin applies to your aircraft and you need to follow the modification instructions below.

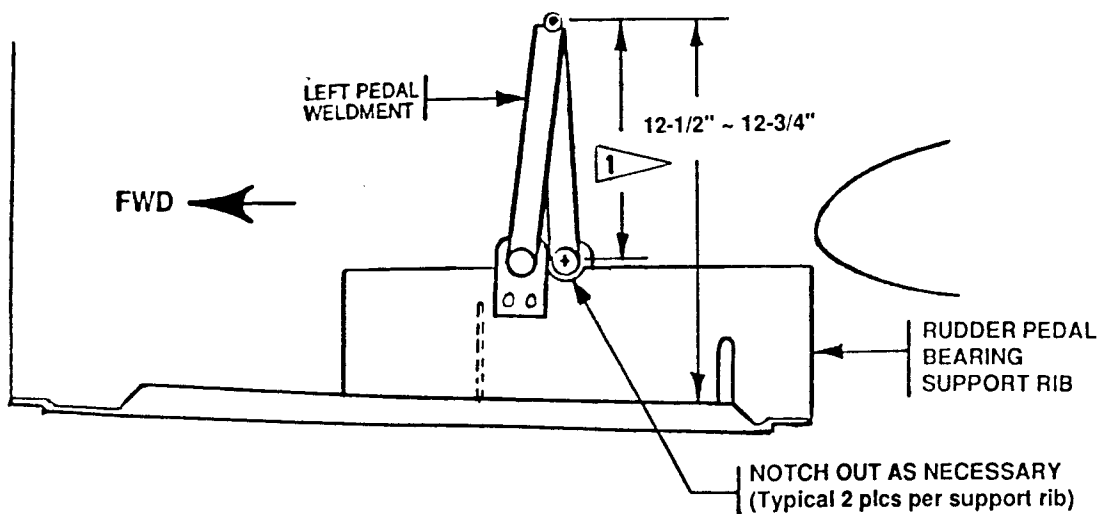


FIGURE (1)

RECOMMENDED ACTION: The simplest cure for this problem is to mount the rudder pedal weldments and their support bearings 1/2" lower than shown in the assembly manual (Fuselage Section, Step M-2 for Super II-S RG's and TD's, Step N-2 for the FT). This will position the rudder pedals correctly without noticeably altering rudder actuation. Measurement of our prototype Super II-S RG and other Super II-S aircraft under construction locally indicates that the center of the rudder pedal pivot bolt should be about 12-1/2" to 12-3/4" above the inner skin of the forward belly panel. Refer to FIGURE (1).

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To accomplish this, follow the instruction manual normally until you are ready to actually mount the rudder pedal control assemblies and their bearings onto the bearing support ribs. After the desired fore and aft location has been determined, mark the location of the assemblies and notch out the support ribs in this area enough to lower the weldment cross tubes 1/2". Remove only enough support rib material to accomplish this task.

If your rudder pedal weldment assemblies are already mounted per the manual and they need to be lowered, it is a simple matter to remove the assemblies, notch out the support ribs and re-mount the support bearings 1/2" lower.

NOTE: DO NOT remove any material from the support ribs in the areas where the lower ends of the master cylinders mount (forward of the pedal assemblies); the master cylinders need to stay in their normal positions to maintain proper geometry with the rudder pedals.

Check that the rudder pedal pivot bolt (or its mounting pivot tube) is positioned as called out above and then proceed with the installation as normal.



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