

AIRWORTHINESS ADVICE NOTICE

TYPE AFFECTED: DG500 and DG1000 series.

SUBJECT: Securing the rear trim cable attachment fitting.

BACKGROUND: The rear control column can be removed by unscrewing at the base and accordingly there is provision for disconnecting the trim cable attachment at the rear control column. The pin through the stainless steel U shape can rotate away from the intended holding position towards the possibility of disconnecting on one side. GFA has received numerous reports of such unsatisfactory rotation or disconnection being observed. Furthermore there is no requirement in Australia for the rear control column to be removed in order to conduct some specified flight mission.

WORK INSTRUCTIONS:

The flattened end of the pin is drilled or slit to enable lockwiring. Most variants of drills fail due to the hardness of the stainless steel. A 'carbide' drill might work but that has not been proven. Dremel have a thin slitting disc attachment for the Dremel hand piece which does abrade a thin slit along the middle of the flattened end of the pin and this works well.

It is recommended that the work be performed in in-situ. This avoids removing the trim cable from the U piece in an attempt to work at a bench, because such removal is guaranteed to create severe difficulty in reinstalling the trim cable possibly requiring complete trim cable replacement.

When using the Dremel tool with slitting disc attachment, the tool and the U piece with pin must be held very firmly so that the Dremel disc attachment does not catch and throw it out. Use gentle force and let the slitting disc do the work. Use eye protection.

Use stainless steel aircraft grade lockwire 0.020" diameter. Lockwire 0.032" diameter can be made to work, but 0.020" is easier. It is recommended to start with capturing the U piece and then feeding through the slit (or hole). Then tie off and feed the twisted end back and out of the way.

LOGBOOK:


This work shall be recorded in the sailplane logbook with reference to GFA Airworthiness Advice Notice AN 177 issue 2.

SIGNED:


For and on behalf of:
**THE GLIDING FEDERATION
OF AUSTRALIA**

CHIEF TECHNICAL OFFICER AIRWORTHINESS



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