

SUBJECT: Electric Trim Turnbuckle Replacement

APPLICABILITY: All Glasair Electric Trim Kits shipped prior to August 1995.

DESCRIPTION: We have received several field reports of electric trim turnbuckles separating during service. Though there have been no accidents as a result of this failure, the potential is high that sudden pitch change could occur at a critical time during flight. A suspect cause might be fatigue from trim cable vibration.

REQUIRED ACTION:

OPTION #1: Within the next five hours time in service, remove the original MS21252-B2S barrels, MS21255-2LS cable eyes and MS21252-2RS forkends and replace them with the larger MS21252-B3S barrels, MS21255-3LS cable eyes and MS21252-3RS forkends (2 places). To accomplish this, the NAS42DD6-13 spacers located on each side of the fork end must also be replaced with thinner NAS42DD6-11 spacers.

OPTION #2: Within the next five hours time in service, apply several wraps of .040 safety wire to each turnbuckle, with one end wrapped around the NASDD6-13 spacers and the other end threaded through the MS21255-3LS cable eye. Within the next twenty five hours time in service, remove the original MS21252-B2S barrels, MS21255-2LS cable eyes and MS21252-2RS forkends and replace them with the larger MS21252-B3S barrels, MS21255-3LS cable eyes and MS21252-3RS forkends (2 places). To accomplish this, the NAS42DD6-13 spacers located on each side of the fork end must also be replaced with thinner NAS42DD6-11 spacers.

TURNBUCKLE REPLACEMENT PROCEDURE: Prior to removing the turnbuckles, measure the length of each turnbuckle so that the new turnbuckles can be adjusted to the same length upon installation. Remove the old turnbuckles by first removing the throwaway clips with a large, flat-blade screwdriver. Release the tension on the trim cables until you can easily remove the springs with a helper holding the stick in one direction and another helper holding the elevator in the opposite direction. Remove the AN381-2-6 cotter pin, the AN960D10L washer and the MS20392-2C29 clevis pin. Install the new, larger turnbuckles in the reverse order given above. Use the thinner NAS42DD6-11 spacers and secure the MS20392-2C29 clevis pin with a new AN381-2-6 cotter pin. Finally insert new turnbuckle clips to safety the turnbuckles after they have been adjusted to their proper length.

As a precaution several wraps of .040 safety wire can be added to each new turnbuckle, with one end wrapped around the NASDD6-11 spacers and the other end threaded through the MS21255-3LS cable eye.

COST: Stoddard-Hamilton Aircraft has a Turnbuckle Replacement Kit (212-0242-510) available for a cost of \$32.86. Price is subject to change after December 1995. Please contact our Order Desk at (360)435-8533.



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