



SERVICE LETTER

NUMBER CSL 98-01
DATE 8/12/98

TO: ALL CENTURY DEALERS/SERVICE CENTERS

SUBJECT: USE OF CENTURY SERVOS IN YAW DAMPER INSTALLATION

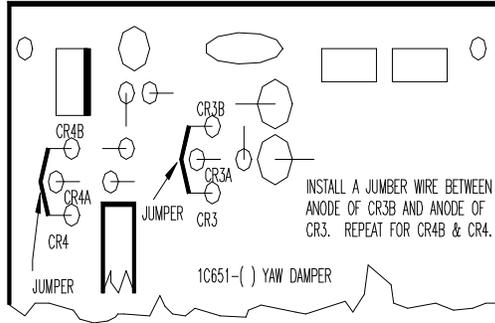
A product improvement has been incorporated in Century Yaw Damper Installations involving the 1C651-(), 1C753-(), 1C753-100 series and 1C753-200 series yaw damper computers when used with Century servos.

Due to a difference in the start up voltage of the Globe style servos verses Century's manufactured servos, it has been necessary to change the threshold circuits of the above yaw damper computers when installed with the Century servos. The change is necessary because the Globe servos normally requires approximately 1.5 to 1.8 volts DC applied to the motor before it will start to run. The Century servo normally requires approximately 1 volt or less before it will start to run. This would cause a persistent in and out movement of the rudder peddles and a displacement of the aircraft around the yaw axis in smooth air.

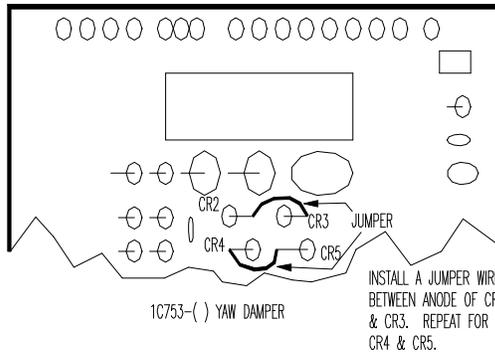
The threshold circuit of the yaw damper computer consist of two pair of diodes in the feedback loop of the final op amp stage. The voltage drop across the pair of diodes caused the op amp stage to output a voltage representing the start up voltage necessary for the Globe servos. Since the Century servos have a lower start up voltage this would cause the persistent movement of the peddles.

In order for the yaw damper computer to be compatible with the Century servo, it will be necessary to remove one diode from each pair. This will reduce the threshold voltage down to approximately 1 volt DC.

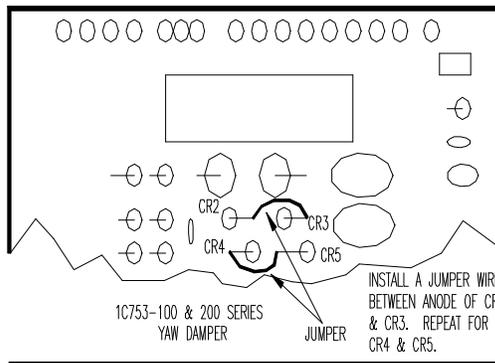
For field modification of those affected systems, follow the instructions provided on sheet 2 of this service letter.



Board Assy P/N 27D194-1



Board Assy P/N 27D300



Board Assy P/N 27D378

Century Flight Systems Approved

Signature on file

W.C. Eubanks, Vice President

FAA/DAS Approved

Signature on file

William R. Watson, DAS 7SW