

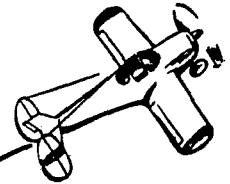
ERCOUPE
SERVICE
MEMORANDUM

No. **57**

REVISION: A
09/01/2008

Ercoupe **MEMORANDUM**

SUBJECT: Aileron Balance Weight Removal



In the past, some difficulty has been experienced with the attachments of the aileron balance weights. These balance weights, in addition to being a maintenance problem, might present a flight hazard if permitted to become loose and remain that way.

As a result of recent tests and analysis, it has been determined that the aileron weights on the Ercoupes may be removed and the aileron will still maintain freedom from flutter throughout the operational range of the airplane, provided the aileron free play does not exceed 5/16".

In order to measure aileron free play, one aileron should be blocked in the neutral position and the free play measured at the trailing edge of the other aileron. In checking the motion, care should be taken not to exert sufficient force to deflect some of the members, thereby getting a false reading. (See Service Memorandum No. 56.)

It is recommended that the aileron system be checked for free play after every 100 hours of operation and if measurement exceeds 5/16", all joints and bearings should be checked and those which are loose should be tightened or replaced.

Removal of aileron balance weights is not mandatory, but is recommended for all Ercoupes Model 415C, 415CD, 415D, E, and G. The weight of the parts removed totals 3.5 pounds and their CG is 55.5" behind the Datum line.