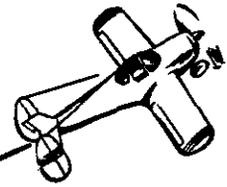


Ercoupe MEMORANDUM

ERCOUPE
SERVICE
MEMORANDUM

No. **30**

SUBJECT: Elevator, Trim Tab Anchor



1. Effective on Ercoupe No. 1623, part No. 415-22001 (elevator assembly) becomes obsolete and is replaced by part No. 415-22017, an improved type of elevator assembly which incorporates a movable hinged section in the trailing edge. This hinged section is employed as a trim tab. All orders received on or after September 1, 1946 calling for part No. 415-22001 will be filled with the new type assembly, part No. 415-22017. Future orders should use the new number.

2. On Ercoupes previous to serial number 1623, it will be necessary to anchor the hinged section of the trailing edge before the new type elevator can be installed. The proper method of making this modification is shown in the attached illustration and the correct procedure is outlined below:

(Figure 1.)

1. Cut anchor plate from sheet aluminum alloy, as specified.
2. Mark gap center line and rivet hole centers, as shown.

(Figure 2.)

3. Remove trim tab control horn from hinged section of new elevator trailing edge.
4. Drill out three rivets in hinged trailing edge as indicated in Figure 2, (No. 40 drill).
5. Enlarge rivet holes using No. 30 drill.

(Figure 3.)

6. Mount anchor plate with three "C" clamps, as shown, to assure rigidity. Align center line and gap.
 7. Drill three rivet holes (No. 30 drill) through anchor plate and fixed trailing edge, using center marks, Figure 1, instruction 2.
 8. Using existing rivet holes in hinged trailing edge as guides, drill three No. 30 rivet holes in anchor plate.
 9. Rivet plate in place using three GLM 25-2-AD4-3 Universal head rivets on fixed trailing edge and three GLM 25-2-AD4-4 Universal head rivets on hinge (see figure 4).
 10. Drill two bolt holes (No. 27 drill) in anchor plate, using existing bolt holes in hinged trailing edge as guides.
 11. Insert bolts (AN 526-632-7), removed when control horn was taken off and tighten self-locking nuts (AN-365-632).
3. When the above modification has been made, the new type elevator can be installed in place of the old type. The elevator and trim control connection, as installed on Ercoupes prior to serial No. 1622, requires no change when making the above modification.
4. Instructions for incorporating the lever type trim tab mechanism in Ercoupe serial number 1622 and earlier are forthcoming in a separate memorandum.

MATERIAL: AL. ALLOY 24 S-T .040 THK.
REMOVE ALL BURRS AND SHARP EDGES.

