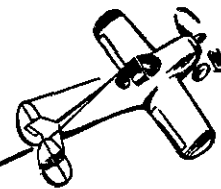


Ercoupe MEMORANDUM

ERCOUPE
SERVICE
MEMORANDUM

No. **36**

**SUBJECT: Engine Cowling Fastener
Change from Dzus to Camloc**



1. Effective on all Ercoupes serially numbered 2623 and subsequent, the engine cowling will be secured with Camloc fastener. It is believed that the use of Camloc fasteners will provide a better cowling fit and simplify maintenance due to superior design. This type fastener will also provide easier access to the engine.

2. The change to Camloc fasteners from the Dzus type includes reduction of the number of fasteners from six (6) to four (4) on each side cowling; the forward engine side cowling fasteners are no longer installed.

3. If desired, Dzus fittings can be removed and the Camloc fasteners substituted on Ercoupes serially numbered 1 to 2622.

4. The modification from Dzus to Camloc fasteners (as noted above) can be accomplished as outlined below:

NOTE:

After modification of affected parts to take Camloc fasteners reconversion to Dzus type fittings cannot be made.

Necessary tools:

1. Round file—enlarging receptacle clearance hole.
2. Bucking bar—installation of rivets.
3. Ball peen hammer—installation of rivets.
4. Cutters—removal of Dzus grommets.
5. Camloc pliers or long nose pliers—installation of stud.
6. No. 50 Drill—removal of rivets.

Procedure:

1. Drill out rivets holding Dzus locking spring and remove.
2. Enlarge receptacle mounting holes on the longitudinal stringers from 3/8" to 11/16" in diameter. These holes are on the lower longitudinal assembly number 415-40047-L/R. Do not remove the

engine bottom cowling. When holes are enlarged to install Camloc receptacles, the engine bottom cowling must be in place to facilitate enlarging holes in longitudinal support and engine bottom cowling in one operation; to insure correct alignment when filing.

3. Remove the engine bottom cowling and install Camloc mounting receptacle number 244-16D on the inside of the longitudinal support number 415-40047-L/R. Mount receptacle with AN426-AD-4-4 rivets.

4. Remove all Dzus studs from engine side cowling number 415-40090 L/R by cutting out mounting grommet. Care must be exercised to avoid damaging the cowling skin. The two holes left unused on each side may be covered by patch in accordance with CAM 18 when making the modifications described below.

5. Enlarge the four stud holes along the lower edge of engine side cowling number 415-40090-L/R, from 3/8" to 5/8" in diameter. Install Camloc Repair Grommet, 4-S2R, from the outside of the engine side cowling. Align grommet rivet holes parallel with the cowling edge. Drill rivet holes (No. 50 drill) using grommet as a jig. Rivets AN426-AD-4-4 are installed from inside of the engine side cowling. Rivets must be flush on the inside.

If desired, the following alternate method may be used for installing the repair grommet which will give a better appearance. After enlarging the stud holes, install repair grommet from outside of engine side cowling. Align grommet rivet holes parallel with the cowling edge. Drill rivet holes using grommet as a jig. Then countersink holes from inside of cowling, using 100 countersink. Install AN456-AD-4-5 rivets from outside of side cowling and buck rivet until shank end of rivet fills up countersink.

6. Insert the number 5 stud (4002-5) in grommet by squeezing stud head against the flange of the spring cup; with Camloc or long nose pliers, place end of stud through grommet and release spring.

7. Install cowling assembly—engine bottom number 415-40040.

Upon completion of modification, the parts change numbers as follows:

	<i>Old</i>	<i>New</i>
Engine Side Cowling.....	415-40090-L/R	415-40559L/R
Lower Longitudinal Support Assembly.....	415-40047-L/R	415-40558-L/R

5. In ordering replacements for affected parts, care must be exercised in specifying part number with consideration being given to whether mating part is fitted with Dzus or Camloc fasteners or whether modification of mating parts is anticipated. Both old and new parts (numbered as above) are available for replacement.

6. To facilitate the modification outlined above, kits of Camloc fasteners are being made available

to those distributors and dealers desiring to make the change. Each kit will consist of sufficient parts to complete modification of one airplane. List price of this kit is \$4.75.

7. If desired, Camloc Pliers 4-P2 may be ordered directly from Camloc Fastener Corporation, 420 Lexington Avenue, New York 17, New York, or from the Camloc Fastener Corporation, 5410 Wilshire Boulevard, Los Angeles 36, California.