



**REPUBLIC AVIATION CORPORATION
FARMINGDALE, LONG ISLAND, NEW YORK
SERVICE DEPARTMENT**

January 13, 1948

MANDATORY CHANGE

SERVICE BULLETIN NO. 22

**MODIFICATION OF THE ELECTROL INC. HYDRAULIC POWER-PAK
ACTUATING HANDLE AND FULCRUM FASTENERS**

Reason for Change: To provide increased security for pump handle attachment.

Airplanes Affected: All Republic RC-3 airplanes.

Description of Change:

The modification to the Electrol Inc. hydraulic power-pak involves replacing four (4) elastic stop nuts with aircraft castle type nuts and cotter pins. Three of the affected bolts are not drilled to permit the use of cotter pins, in consequence it will be necessary to do either of the following:

- a. Remove undrilled bolts and replace with (2) AN24-17 and (1) AN24-13 bolts.
- b. Drill the bolts now installed to permit use of cotter pins. Use a #48 (.076) drill.

Accomplish as follows:

1. Open anchor compartment hatch and remove anchor and bag to permit access to hull compartment.
2. Remove the cover from the access hole which is located forward of the pilot's seat, at approximately Station 48.
3. Consult the accompanying illustration and remove the nuts and bolts as indicated.
4. Accomplish bolt change or rework as outlined above.
5. Replace bolts and fasten with (3) AN310-4 nuts.

NOTE: In tightening the nuts on the (3) AN24 bolts care should be exercised to prevent overtightening and subsequent binding of these hinge points.

6. Remove the elastic stop nut attaching the fulcrum-adapter (eyebolt) and pump handle. Replace with (1) AN310-5 nut. (The Fulcrum-adapter is already drilled for cotter pin use.)
7. Safety all attachments concerned with cotter pins.

8. Replace the anchor and access hole compartments.
9. Make notation indicating compliance in airplane log.

<u>Parts Required:</u>	Three (3)	AN310-4	Castle Nuts
	One (1)	AN310-5	Castle Nut
	Two (2)	AN24-17	Clevis Bolts (optional)
	One (1)	AN24-13	Clevis Bolt (optional)
	Four (4)	AN380-2-4	Cotter Pins (1/16" x 1")

These parts are all standard and are procurable from most common hardware stocks.

If you have sold your airplane, please forward this Bulletin to the present owner.

