

M A N D A T O R Y
SERVICE BULLETIN #34

Date: 24 August 1983

To: R22 Owners & Operators

Subject: Clutch Actuator Light Relocation

Rotorcraft Affected: Robinson R22 Helicopters S/N 0002 thru 0349.

Time of Compliance: Within 25 flight hours or October 1, 1983
which ever occurs first.

Background: The clutch light has been found to be a good warning device for an impending drive system failure or malfunction. Refer to Safety Notice #14 (copy enclosed) This modification moves the light from the lower panel, where it is partially obscured by the cyclic control, up to the primary panel where it is in the pilots normal instrument scan.

Compliance Procedure:

1. Disconnect battery terminals to prevent possible shorting.
2. Mark the new location for actuator light below MR temp. light on upper left console faceplate per Figure 1.
3. Remove five screws securing instrument panel to upper console.
4. Spread cloth to catch metal chips & protect cluster faceplate. Detach Altimeter from panel during drilling & light installation.
5. Support instrument panel and drill a 15/32 (.469) inch dia. hole at location marked and deburr edges of hole.
NOTE: Recommend drilling consecutively larger holes. Example:
1/8, 1/4, 3/8, 7/16, thru 15/32.
6. Unscrew actuator switch faceplate to ease wire replacement. (Do Not Drop terminal screws or washers from switch)
CAUTION: DO NOT INTERCHANGE WIRES #94 and #95 on switch, See Figure 2.
Remove old wire #92 from actuator switch and install new wire #92 from kit.
Remove old wire #93 from actuator switch and install new wire #93 from kit.

7. Remove old actuator light from lower panel and install DP437 hole plug. Secure lower console faceplate to console bulkheads.
8. Install new actuator light socket assembly into upper console and install your old bulb & amber cover.
9. Clean & dry faceplate, then using a piece of masking tape lift 'Clutch' decal off its backing material and place on faceplate per Figure 1.
10. Disconnect male portion of two pin connector from lower wire assy. Install wire #92 from light into connector hole #2. Install wire #93 from light into connector hole #1.
NOTE: Ensure wire pin locks securely.
11. Connect male and female two pin connectors together. Tyrap wiring securely to console bundle.
12. Attach Altimeter back to faceplate.
13. Secure upper console faceplate.
14. Reconnect battery and secure upper console side attach screws.
15. Visually verify actuator operates in proper direction during test. Master ON, Clutch Sw.-Engaged; Actuator tightens belts, light ON. Master ON, Clutch Sw.-Disengaged; Actuator loosens belts, light ON.

COST:

The complete KI-25 Kit for complying with this Service Bulletin is priced at \$30.00. If prepaid order received prior to 15 September 1983, RHC will discount price by 60% to \$12.00.

Approximate Labor Hours Required: 1.5 hours.

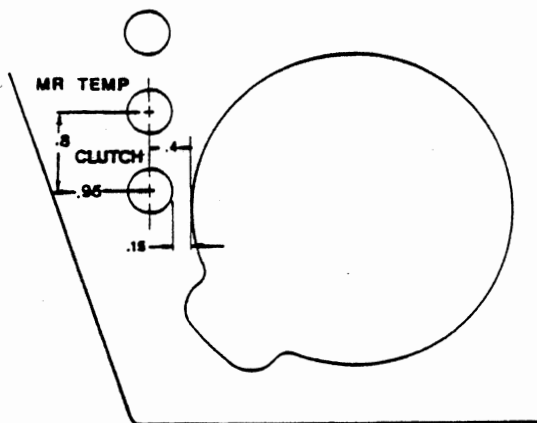


FIG. 1

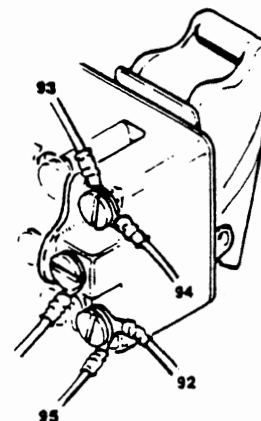


FIG. 2