DATE: 02 May 1996

R E V I S E D

SUBJECT: Cyclic Trim System

ROTORCRAFT AFFECTED: R44 Helicopters S/Ns 0004 thru 0190 equipped with D140-1 trim controller, C055-2 lateral trim assembly(includes C055-8 gearmotor assembly) and C055-6 longitudinal cyclic trim assembly.

BACKGROUND: R44 S/N 0191 and subsequent are factory-equipped with an upgraded, more reliable cyclic trim system. The upgraded system also allows easier removal of unwanted cyclic stick forces in flight. To enable owners of earlier R44s to receive the advantages of the upgraded system, RHC has discounted the list price of the required components by 60%.

COMPLIANCE PROCEDURE:

CAUTION

Old and new trim systems are NOT compatible. To prevent damage, entire system must be replaced.

1) Inspect D140 trim controller located beneath left hand collective stick under seat bottom. If trim controller is p/n D140-1, order kit KI-99 from RHC Customer Service.

2) Remove C055-2 lateral and C055-6 longitudinal cyclic trim assemblies per R44 Maintenance Manual sections 8.141 & 8.413.

3) Reference R44 IPC Figure 7-1. Transfer C056-1 spring assembly from old C055-2 lateral cyclic trim assembly to new C055-11 gearmotor assembly (C055-11 becomes C055-9 upon spring installation). Bottom AN316-4R nut on shaft threads by hand then torque B330-13 palnut 11-25 in.-lb against AN316-4R nut.

4) Install new C055-9 lateral and C055-10 longitudinal trim assemblies per R44 Manintenance Manual(MM) sections 8.142 and 8.144. Ensure R44 Service Letter #8 has been complied with.

5) Replace D140-1 trim controller with D140-2 trim controller. Adjust D140-2 per R44 MM section 14.710. R44 s/n 0100 and earlier may require drilling an additional mounting hole in panel to match new trim controller's mounting hole pattern.

Approximate Cost:

Parts: $2667 for KI-99 Exchange Kit if orderd by 01 SEP 96. $1000 refund if all exchanged parts are returned to RHC within 20 days. (Full refund for s/n 0159 thru 0190 under warranty)

Labor: 3 manhours