

R44 SERVICE BULLETIN SB-115

DATE: 27 October 2023

TO: R44-series Owners, Operators, and Maintenance Personnel

SUBJECT: Loose Gearmotors on Belt-Tension Actuators

EFFECTIVITY:

- R44 Helicopter S/Ns 0001 thru 2767,
- R44 II Helicopter S/Ns 10001 thru 14670,
- R44 Cadet Helicopter S/Ns 30001 thru 30097, and
- Spare C051-1 & -2 Rev AC & prior belt tension actuator assemblies.

TIME OF COMPLIANCE: Within next 100 flight hours or by 31 December 2023.

BACKGROUND: RHC has received reports of loose gearmotors on the belt-tension actuator. This bulletin requires a one-time verification of gearmotor security and application of torque stripe for future visual inspections.

COMPLIANCE PROCEDURE:

1. Open right side aft cowl door to access gearmotor on C051-1 or -2 belt-tension actuator.
2. Refer to Figure 1. Taking care to avoid disturbing gearmotor wiring, attempt to rotate the gearmotor cover using finger-pressure only; do not use tools. Verify:
 - no rotational play between gearmotor cover & threaded collar (dotted line in Figure 1), &
 - no rotational play between threaded collar & housing (dashed line in Figure 1).
3. Using finger-pressure only, attempt to move the gearmotor cover side-to-side & up-and-down. Verify:
 - no looseness between gearmotor cover & threaded collar, &
 - no looseness between threaded collar & housing.
4. If rotational play or looseness is detected, replace D276-1 or -3 gearmotor assembly per R44 Maintenance Manual § 7.530, and repeat steps 2 & 3.
5. Apply torque stripe approximately as shown to facilitate future visual inspections.

(OVER)

APPROXIMATE COST:

Parts: None for gearmotor inspection. Return D276-1 or -3 gearmotor assembly exhibiting rotational play or looseness to RHC for warranty consideration. Include completed [Component Return Authorization](#) form.

Labor: 0.5 labor-hours for inspection.

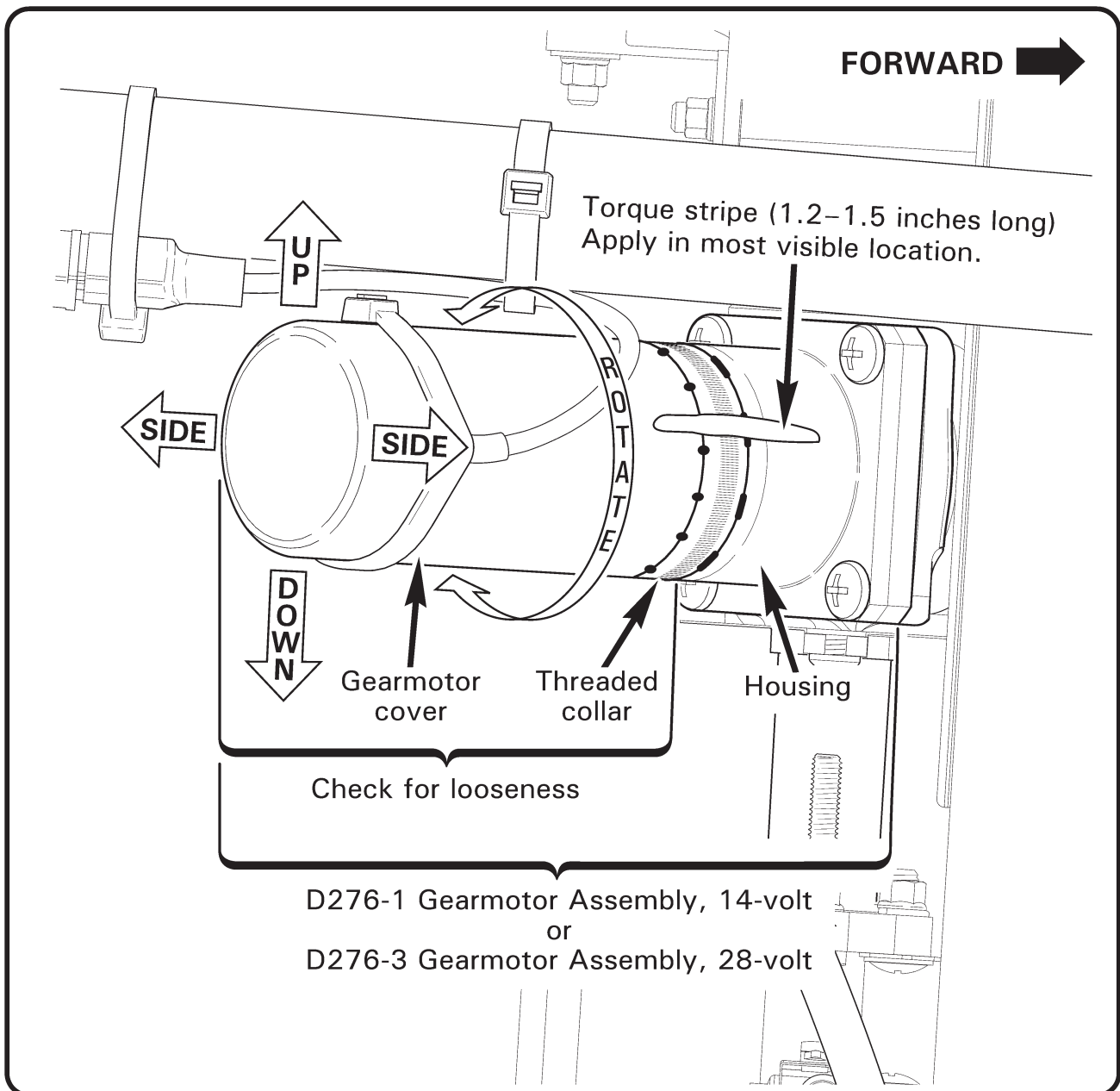


FIGURE 1

THE DESIGN ENGINEERING ASPECTS OF THIS BULLETIN HAVE BEEN SHOWN TO COMPLY WITH APPLICABLE FEDERAL AVIATION REGULATIONS AND ARE FAA APPROVED.