

- b. Remove dc generator (paragraph 9-64).
- c. Remove four bolts (3, figure 6-27), washers (2 and 8), spacers (7 and 10), nuts (11), and cyclic spring bracket (1) from transmission top case.
- d. Remove two nuts (5), washers (6), support bracket (4), and shims (9) from transmission case and generator drive quill (14).
- e. Remove five bolts (17) and washers (16 and 15) securing generator drive quill (14) to transmission case and out sealing compound from around outside of quill sleeve flange and jackscrew holes.

CAUTION

When using jackscrews to remove quill assembly these procedures must be followed: Two jackscrews must be screwed in evenly exerting equal pressure on quill sleeve to prevent damage to flanges. Do not use force by prying on flanges. In the event quill cannot be removed by using jackscrews, heat case, and use jackscrews. Do not use torch or open flame to heat case.

- f. Use jackscrews (T33) and pull generator drive quill (14) from transmission case. Remove jackscrews.
- g. Cover opening in transmission case to prevent entry of foreign materials.
- h. Cut lockwire and remove magnetic plug (18) and self-closing valve (19) from generator drive quill (14).

6-112. Disassembly "Generator Drive Quill.

- a. Remove retaining ring (1, figure 6-23) from drive quill (8).
- b. Use pliers as shown in figure 6-28, catch lip of seal housing (3) and work from quill.
- c. If shim (5) comes out, carefully reinstall against bearing (6). Cover quill.
- d. Press seal (4) from seal housing (3) and discard preformed packing (2).

6-113. Inspection "Generator Drive Quill.

- a. Inspect for evidence of oil leaks.

NOTE

External leakage from seal (4, figure 6-28) is not permitted. However, a small amount of seepage assures a satisfactory seal condition. Continuous flow (droplets) is considered excessive and will require seal replacement.

- b. Check OD of generator drive quill (8) in area of preformed packing groove for corrosion and wear. Corrosion not permitted; replace quill if OD is less than 4.9989 inches (figure 6-28).
- c. Visually inspect case of quill (8) for cracks, chipping, scoring, and wear. If crack is suspected, refer to TM 1-1520-256-23, AVUM/AVIM nondestruction inspection procedures for UH-1 helicopter series.
- d. Inspect seal surface on gear (7) for nicks, scratches, or excessive wear.
- e. Inspect bearings in quill (8) for smoothness and freedom of operation.
- f. Check magnetic plug (18, figure 6-27) for metal particles paragraph 6-30 and figure 6-14.

WARNING

Cleaning materials are flammable and toxic. Avoid skin contact and breathing of solvent vapors.

- g. Remove vent cap and vent, determine if vent is unclogged and clean throughout.
- h. Inspect drive quill splines for excessive wear. (Reference paragraph 6-115.c.).

6-114. Cleaning "Generator Drive Quill.

- a. Clean parts with solvent (C261) and dry with filtered compressed air.
- b. Lubricate bearings and machined surfaces immediately after cleaning with oil (C166, C166A, or C168).

6-115. Repair "Generator Drive Quill.

- a. Replace seal (4, figure 6-28), if leakage exists (paragraph 6-116).