

WARNING

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

(2) Scrub I. D. of seal housing (3) using a cloth dampened with methyl-ethyl-ketone (C177).

(3) Clean O.D. of seal (4) using a cloth dampened with methyl-ethyl-ketone (C177).

(4) Apply a film of sealant (C244) to O.D. of seal (4) and ID of seal housing (3).

(5) Using a pressing plate slightly smaller than O.D. of seal (4); press seal into seal housing (3) with seal lip facing inboard. Ensure seal is bottomed in housing; remove excess sealant.

b. Lubricate new preformed packing (2) with grease (C129). Place packing in groove of seal housing (3).

CAUTION

Do not pull on gear (7) while retaining ring (1) is removed.

c. Check to ensure that shim (5) is in place against bearing (6).

d. Lubricate lip of seal (4) and OD of gear (7) with oil (C166, C166A, or C168).

e. Carefully press seal housing (3) and seal (4) over gear (7) and into generator drive quill (8). Secure housing with retaining ring (1).

6-117. Installation - Generator Drive Quill.

a. Inspect transmission case at opening for drive quill (14, figure 6-27) for the following conditions:

CAUTION

Ensure that set screw (12, figure 6-27) is installed prior to Generator Drive Quill (paragraph 6-39).

(1) Pitting or surface deterioration in the area of seals gaskets, preformed packings, and mating surfaces of close tolerance machine surfaces, is not acceptable if it will affect the proper function and performance of the mating component or assembly.

(2) Any minor scratches on the preformed packing contact area should be reworked to blend with the surrounding surface to prevent leakage. using a fine stone (C263 or C264) or crocus cloth (C68).

b. Lubricate new preformed packing (13) with oil (C166, C166A, or C168). Apply oil film to boss of generator drive quill (14) and opening in transmission case.

c. Place preformed packing (13) on boss of generator drive quill (14).

d. Using a heat lamp, heat the transmission case at opening for quill (14) until case is hot to touch or 250 degrees F. Do not use torch or flame to heat transmission case.

NOTE

A work aid for installing the generator drive quill may be fabricated as shown in figure 6-29.

e. If work aid is required then install the three work aid studs into case threads at equally spaced intervals.

f. Install generator drive quill (14, figure 6-27) as follows:

NOTE

To verify backlash in the following step, Retaining Ring (25) and Cover Plate (26) must be removed.

(1) Align and position generator drive quill (14) over work aid studs.

(2) Install steel washers on work aid studs and against case of generator drive quill (14). Thread work aid pushers onto studs.

CAUTION

Ensure that gears of generator drive quill (14) and transmission driving gear are properly meshed before seating quill.

(3) Tighten work aid pushers evenly until generator drive quill (14) is fully seated. Remove work aids.

(4) Secure generator drive quill (14) to transmission with five bolts (17), steel washers (16) and aluminum washers (15). Torque bolt 160 to 190 inch-pounds. Verify presence of backlash between quill (14) bevel gear and drive gear in transmission.