FIG. 55: Remove the bearing cup from the motor flange.

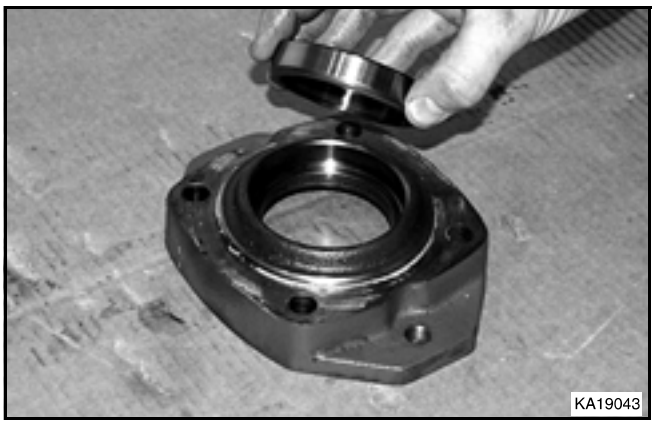

FIG. 55

FIG. 56: Remove the seal from inside the housing.

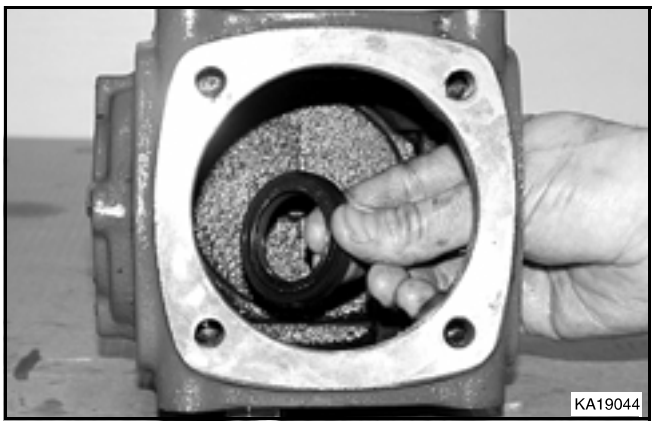

FIG. 56

FIG. 57: Remove the bearing cup from the housing.

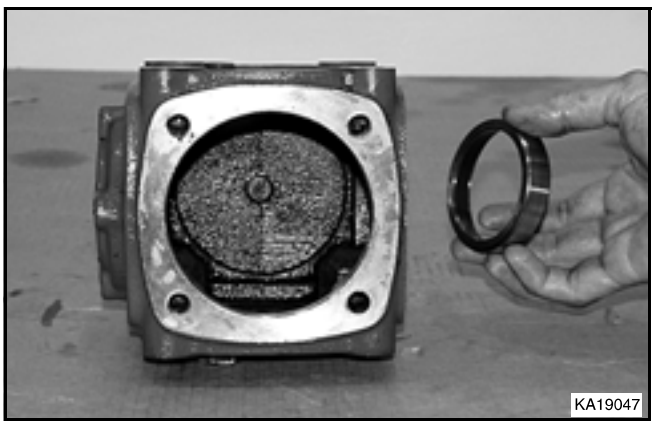

FIG. 57

Inspection

Remove the sealant from the motor flange, the extension, and the housing.

Discard all of the bearing cups, bearings, and seals.

Clean all of the parts.

Inspect the keyways and splines in the pinion shaft and the output shaft for damage. If a keyway or spline is damaged, replace the shaft.

Inspect the teeth on the pinion shaft gear and the crown gear for wear and damage. Replace the shaft or gear if the teeth are worn or damaged.

Inspect the housing, the motor flange, and the extension for cracks. Replace any parts that have cracks.

Assembly

NOTE: The gearbox shown is for a 15 foot machine. The gearbox for a 12 foot machine is similar.

See Components for an exploded view of the gearbox.

FIG. 58: Install the shims (1) onto the gear end of the pinion shaft (2).

Press the new bearing cone (3) onto the gear end of the pinion shaft. Be careful not to damage the shims. Make sure the shims are tight between the bearing cone and the gear.

Install the shims (4) onto the output end of the pinion shaft.

Press the new bearing cone (5) onto the output side of the pinion shaft. Be careful not to damage the shims. Make sure the shims are tight between the bearing cone and the shoulder.

Install the new bearing cup (6) into the housing (7).

Install a new seal (8) into the housing. The lip of the seal must be toward the inside of the gearbox.

Apply clean oil to the bearing cup and seal. Apply clean oil to the bearing cones on the pinion shaft. Put the pinion shaft assembly in the housing.

NOTE: Use care not to damage the shaft seal.

Install a new bearing cup (9) into the motor flange. Apply clean oil to the bearing cup.

Apply silicone sealant to the motor flange (10).

Put the motor flange into position on the housing. Make sure the marks made before disassembly are aligned.

Install the four cap screws (11) that fasten the motor flange to the housing. Tighten the cap screws to 88 Nm (65 lbf ft).

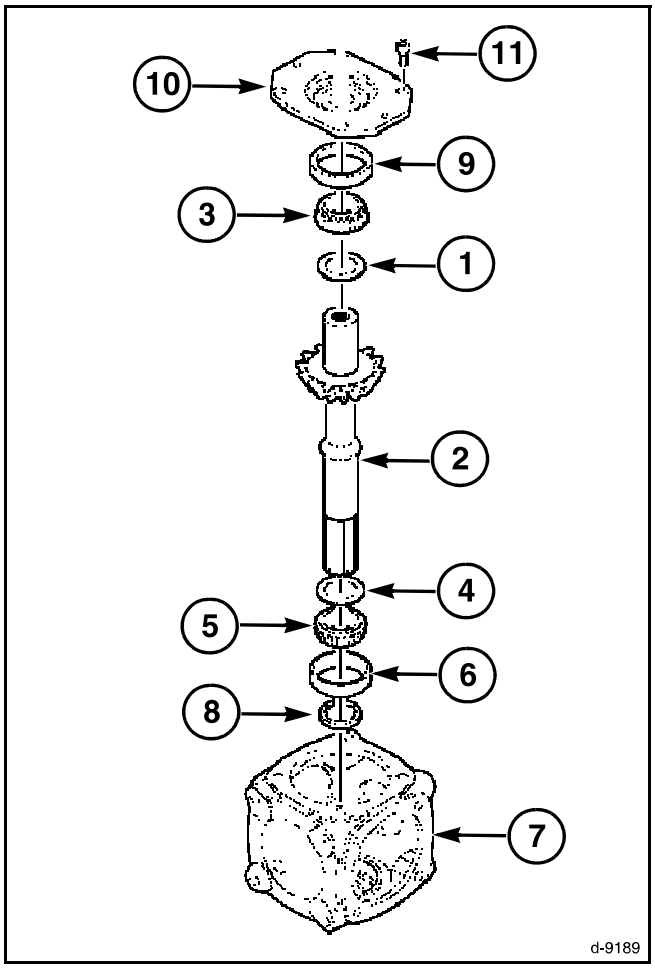

FIG. 58

FIG. 59: Check the end play on the pinion shaft. The end play must be between 0 and .05 mm (0 and .002 in). If there is too much end play, add shims between the bearing and the gear. If there is not enough end play, remove shims between the bearing and the gear.

Check the end play of the pinion shaft again.

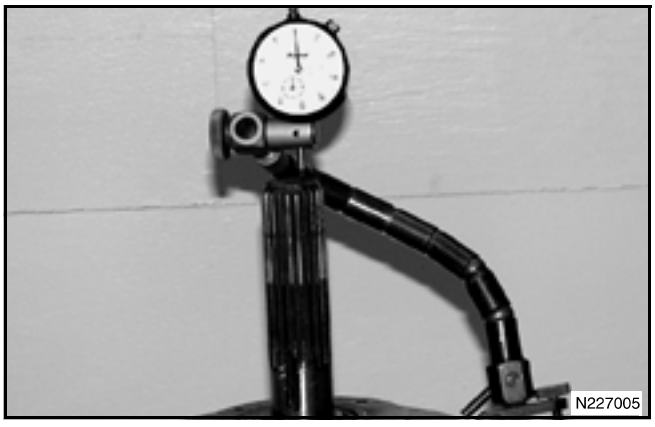

FIG. 59