Clutch housing/drive shaft sleeve wear

Measure the diameter of the drive shaft sleeve with a micrometer. Replace the drive shaft sleeve if the diameter is less than the service limit. Measure the inside diameter of the clutch housing with a cylinder gauge.
Replace the clutch housing if the diameter exceeds the service limit. When replacing the clutch housing and/or drive shaft sleeve, replace the clutch housing needle bearing also.

Clutch Housing

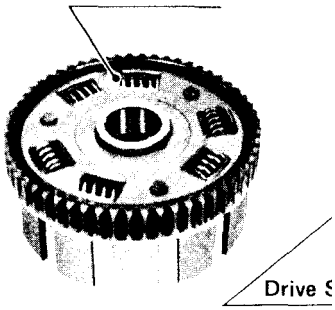

Table 62 Clutch Housing, Drive Shaft Sleeve Diameter

	Standard	Service Limit
Housing I.D.	37.000~37.016 mm	37.04mm
Sleeve O.D.	31.995~31.998 mm	31.97mm

Table 63 Spacers

Marking	Thickness	Part Number
1	8.6 mm	92026-121
2	8.7 mm	92026-123
3	8.8 mm	92026-109
4	8.9 mm	92026-124
5	9.0 mm	92026-122

Alignment of primary chain sprockets

When replacing the crankcase halves, drive shaft ball bearing, clutch housing, and/or crankshaft; check the alignment of the primary sprocket and the clutch housing sprocket. Adjust the alignment by selecting and installing the proper spacer. Spacers are available in sizes from 8.6 ~ 9.0 mm, in increments of 0.1 mm. Spacers are numbered to indicate each thickness. 8.6 mm thick spacer is stamped "1", and 8.7 mm thick spacer, "2", in turn 9.0 mm thick spacer is stamped "5". To inspect the alignment, push the clutch housing toward drive shaft ball bearing, and push the crankshaft

Set a short straight edge on the primary sprocket hub, and measure the distance between the clutch housing sprocket and the straight edge. This distance should be within a value indicated in Table 64 to keep the sprockets properly aligned.

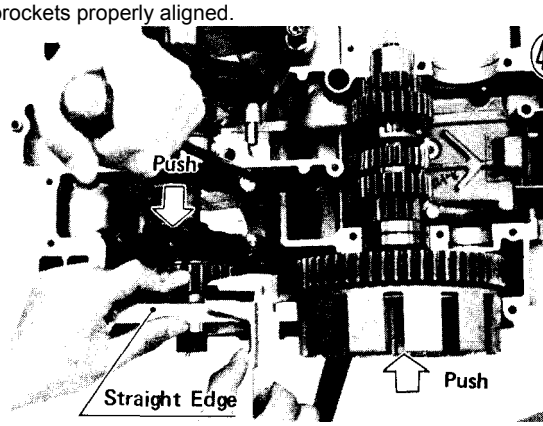

Table 64 Sprocket Alignment Measurement

	Standard
	7.0 ~ 7.2 mm

toward the timing advancer side.

Needle bearing wear

The rollers in the needle bearing wear so little that the wear is difficult to measure. Instead, inspect the needle bearing for abrasion, color change, or other damage. If there is any doubt as to its condition, replace the needle bearing.

Clutch hub damage

Inspect where the teeth on the steel plates wear against the splines of the clutch hub. If there are notches worn into the splines, replace the clutch hub.

Clutch release gear wear

With the clutch release assembled, push the inner worm gear back and forth in the direction of the shaft without turning it. If there is excessive play, replace the clutch release assembly.

Lubrication

Lubricate the clutch release worm gears with grease.

PRIMARY CHAIN

The power transmission from the crankshaft to the drive shaft is chain-drive, utilizing a Hy-Vo (high