

Table 6-1. Gear Ratios

GEAR	RATIO
1	10.11
2	6.958
3	4.953
4	3.862
5	3.15

Table 6-2. Primary Chain Free Play

FREE PLAY	INCHES	MM
COLD Engine	5/8-7/8	15.9-22.2
HOT Engine	3/8-5/8	9.5-15.9

Table 6-3. Primary Chaincase Lubricant

ITEM	VALUE
Amount	32 oz (946 ml)
Part No.	99824-03/00QT

Table 6-4. Drive Belt Deflection

DEFLECTION	INCHES	MM
On Jiffy Stand Without Rider or Luggage with 10-psi (69 kPa) in Rear Shocks	1/4-5/16 at 10 lbs force	6.4-7.9 at 4.5 kg force
Motorcycle Upright With rear Wheel in Air	3/16-1/4 at 10 lbs force	4.8-6.4 at 4.5 kg force

Table 6-5. Sprockets

SPROCKET	NUMBER OF TEETH
Engine	25
Clutch	36
Transmission	32
Rear wheel	70

TORQUE VALUES

6.2

ITEM	TORQUE		NOTES
Clutch inspection cover	84-108 in-lbs	9.5-12.2 Nm	page 6-4

GENERAL

See [Figure 6-1](#). The following procedure covers removal of clutch release bearing and push rod assembly.

REMOVAL

WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, remove maxi-fuse before proceeding. (00251a)

1. Remove Maxi-Fuse.
2. Remove clutch inspection cover.
3. See [Figure 6-2](#). Remove bearing plate retaining ring (1).
4. Pull out release bearing plate (3) with release bearing (4) and push rod (5).
5. Remove push rod retainer (2).
6. Press release bearing out of bearing plate.

INSTALLATION

1. See [Figure 6-2](#). Pressing on the outer race, press a new release bearing (4) into bearing plate (3).
2. Assemble push rod (5) to bearing.
3. Snap in push rod retainer (2).
4. Slide push rod and clutch release bearing assembly through clutch pack to secondary clutch actuator.
5. Snap in bearing plate retaining ring (1).

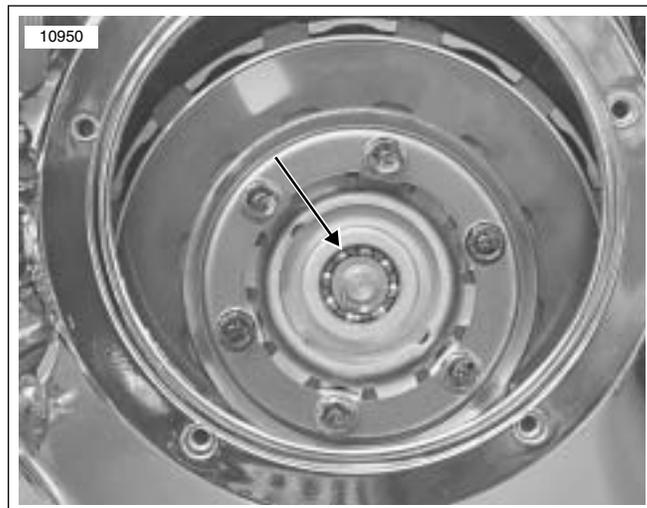


Figure 6-1. Clutch Release Bearing

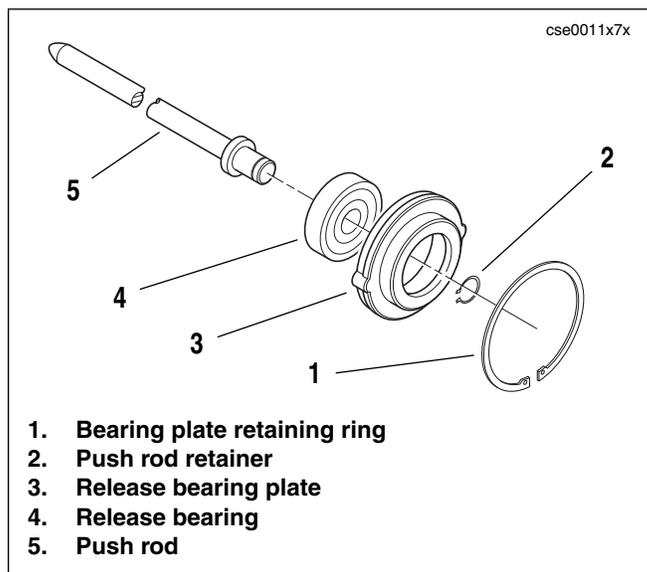


Figure 6-2. Push Rod And Release Bearing

NOTE

Before installing clutch inspection cover check push rod and release plate movement as follows.

Measuring Release Plate Movement

1. Attach the standoff of a dial indicator to one of the 1/4-20 clutch-inspection (derby) cover mounting holes or use a magnetic base and dial indicator mounted suitably. Position the indicator anvil (rod) to the end of the push rod.

⚠ WARNING

Insufficient clutch-release plate movement can lead to difficulty or inability to shift, causing loss of control, which could result in death or serious injury.

2. Actuate the clutch lever to measure the axial movement of the push rod and the clutch-release plate assembly. The axial movement must be at least 0.065 in. (1.65 mm).

NOTE

Proper bleeding of the system will typically yield plate movement of greater than 0.065 in. (1.65 mm). If clutch release plate movement is less than 0.065 in. (1.65 mm), the system must be re-bled and plate movement checked again.

Installing Clutch Inspection Cover

1. Thoroughly clean all gasket material from clutch inspection cover and mating surface on primary cover.
2. See [Figure 6-3](#). Install clutch inspection cover with **new** gasket. Make sure the correct side of the gasket faces the clutch inspection cover. In sequence, tighten fasteners to 84-108 **in-lbs** (9.5-12.2 Nm).
3. Install Maxi-Fuse.

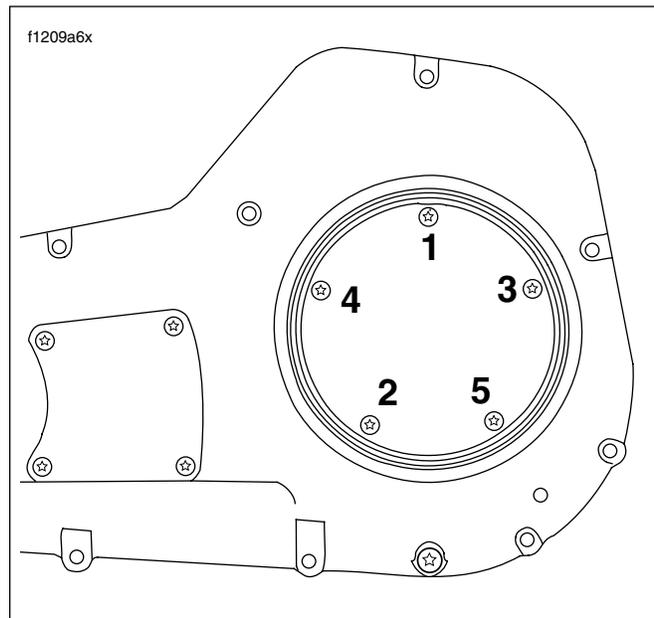


Figure 6-3. Clutch Inspection Cover Torque Sequence