



7. GEARSHIFT LINKAGE

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SERVICE INFORMATION

GENERAL

- The gearshift spindle and stopper arms can be serviced with the engine in the frame.
- If the shift forks, drum or transmission require servicing, remove the engine and separate the crankcase.

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TORQUE VALUE

Neutral switch 16–20 N·m (1.6–2.0 kg·m, 12–14 ft·lb)

TROUBLESHOOTING

Hard to shift

1. Improper clutch adjustment; too much free play
2. Shift forks bent
3. Shift shaft bent
4. Shift claw bent
5. Shift drum cam grooves damaged

Transmission jumps out of gear

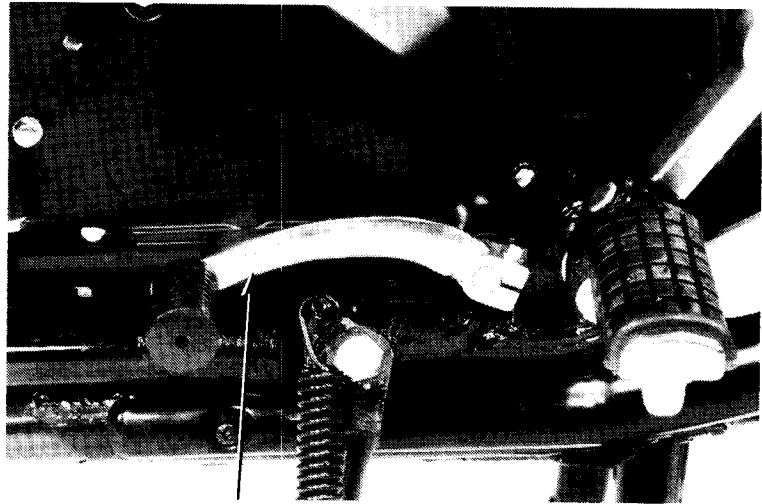
1. Gear dogs worn
2. Shift shaft bent
3. Shift drum stopper broken
4. Shift forks bent



GEARSHIFT LINKAGE

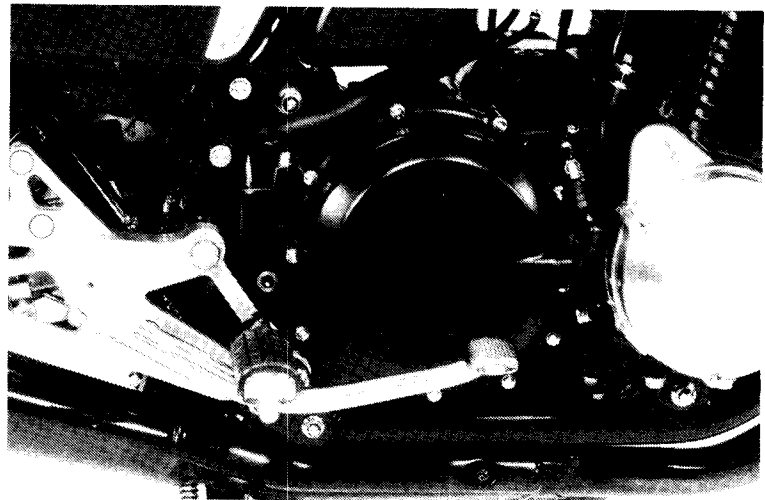
GEARSHIFT LINKAGE REMOVAL

Drain the engine oil.
Remove the gearshift pedal.

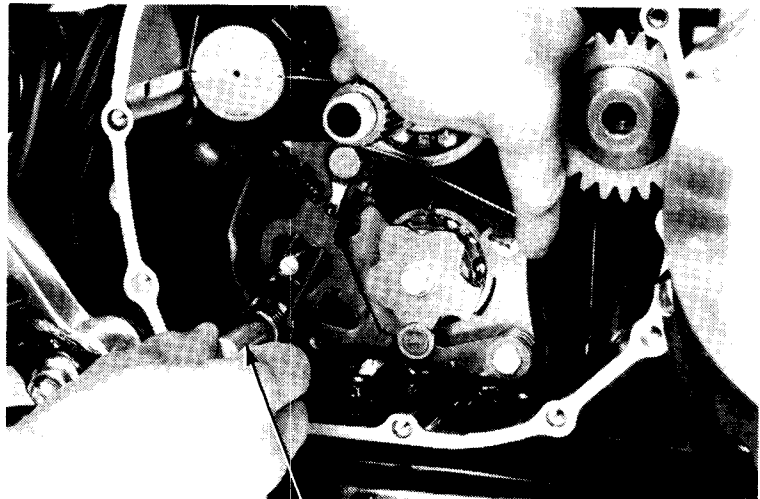


GEARSHIFT PEDAL

Remove the clutch cover and clutch assembly. (page 6-3).



Pull the gearshift spindle assembly out of the crankcase.

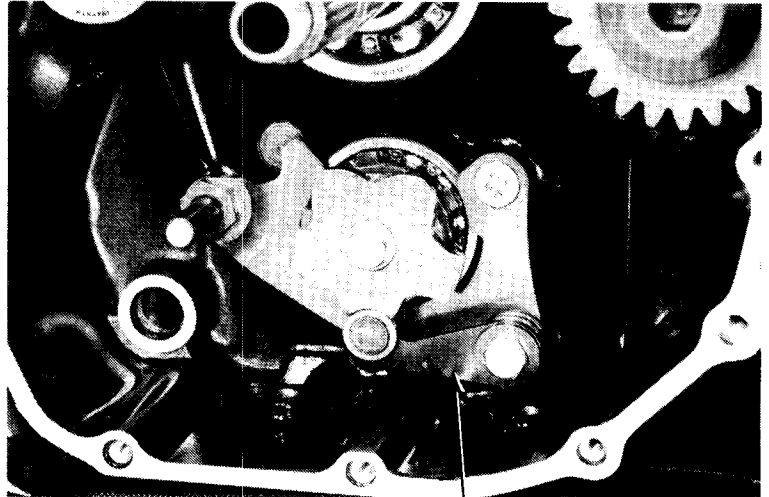


GEARSHIFT SPINDLE



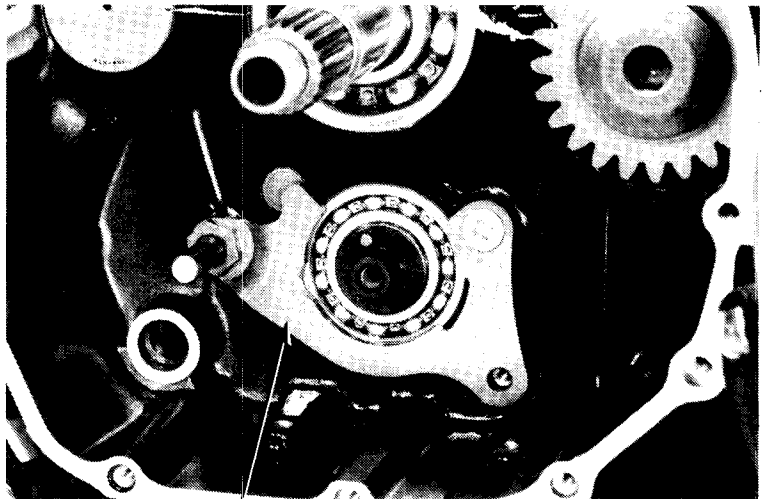
Remove the drum stopper arm bolt, arm and spring.

Remove the roller stopper plate bolt and plate.



DRUM STOPPER ARM

If bearing removal is necessary, remove the bearing stopper plate.



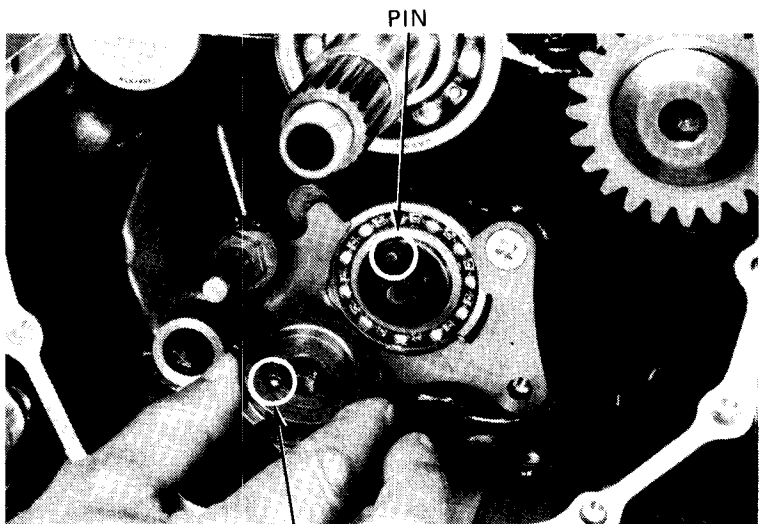
STOPPER PLATE

GEARSHIFT LINKAGE INSTALLATION

Align the hole in the roller stopper base plate with the pin on the shift drum.

NOTE

If bearing replacement is necessary, apply a locking agent to the stopper plate screw threads.

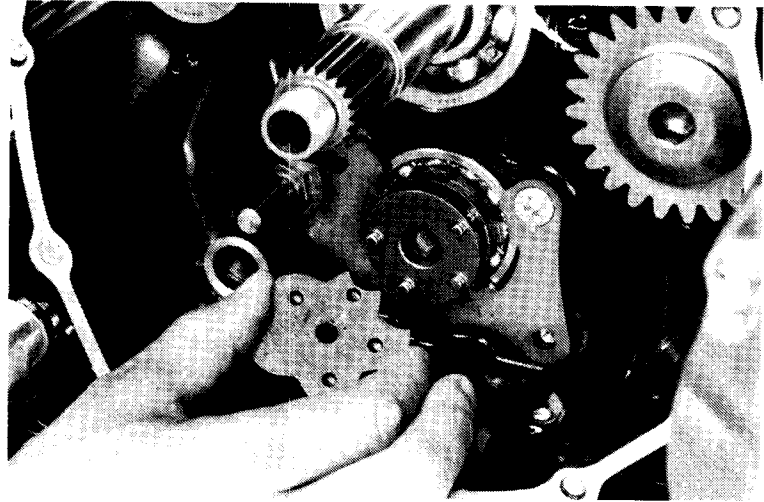


HOLE

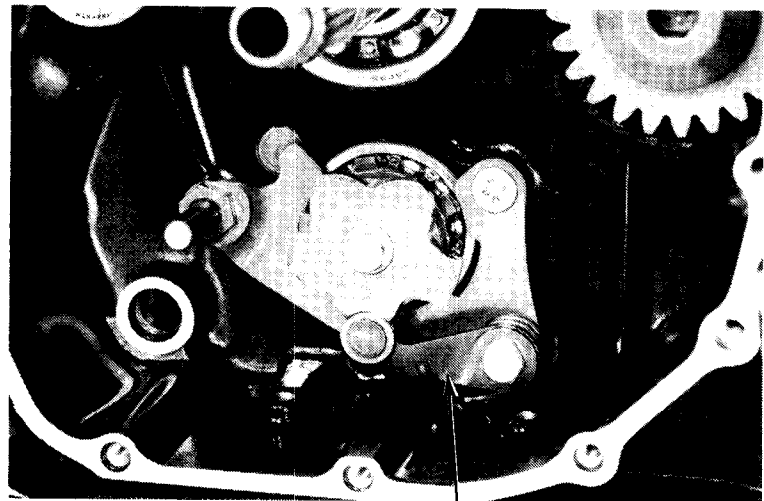


GEARSHIFT LINKAGE

Install the roller stopper pins, plate and bolt.
Tighten the bolt securely.



Install the drum stopper arm, bolt and return spring.
Tighten the bolt securely.



DRUM STOPPER ARM

Assemble the gear shift spindle and return spring.
Install as shown.
Rotate the gearshift spindle and check the linkage
for smooth operation.

Install the clutch assembly and cover (Section 6).

Install the gearshift pedal.

