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SERVICE INFORMATION

GENERAL INSTRUCTIONS

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

TORQUE VALUE

Neutral switch 1.6–2.0 kg-m (12–14 ft-lb)

TROUBLESHOOTING

Hard to shift

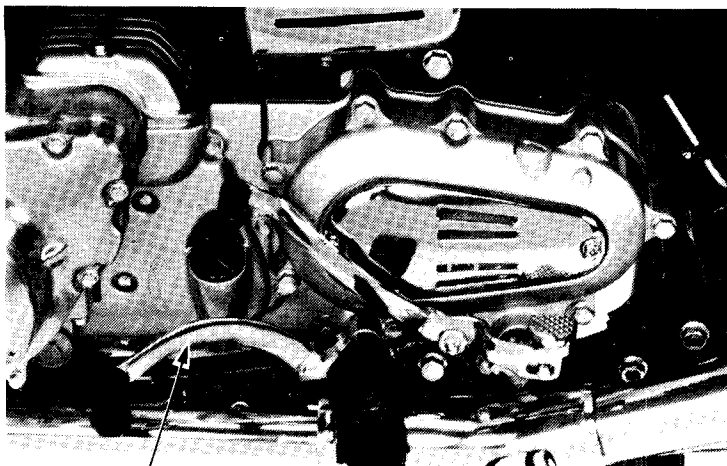
1. Improper clutch adjustment; too much free play
2. Shift forks bent
3. Shift shaft bent
4. Shift claw bent
5. Shift drum cam grooves damaged

Transmission jumps out of gear

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

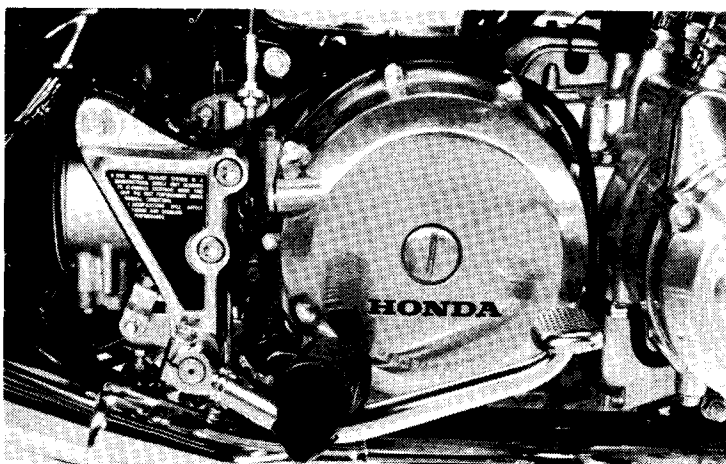
GEARSHIFT LINKAGE REMOVAL

Drain the engine oil.
Remove the gearshift pedal.

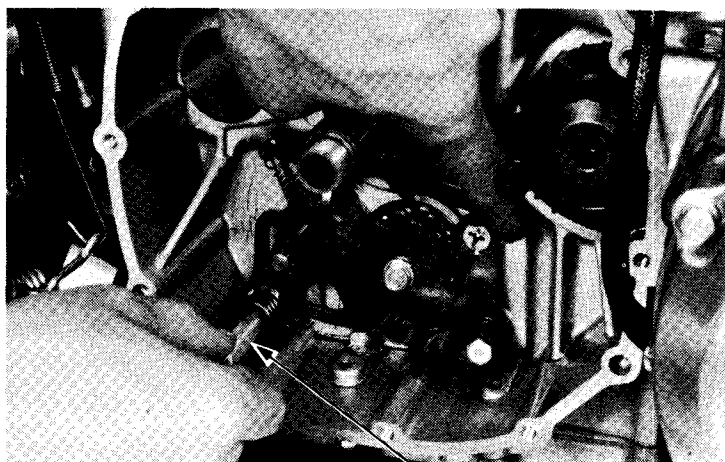


GEARSHIFT PEDAL

Remove the clutch cover and clutch assembly
(Section 8).



Pull the gearshift spindle assembly out.

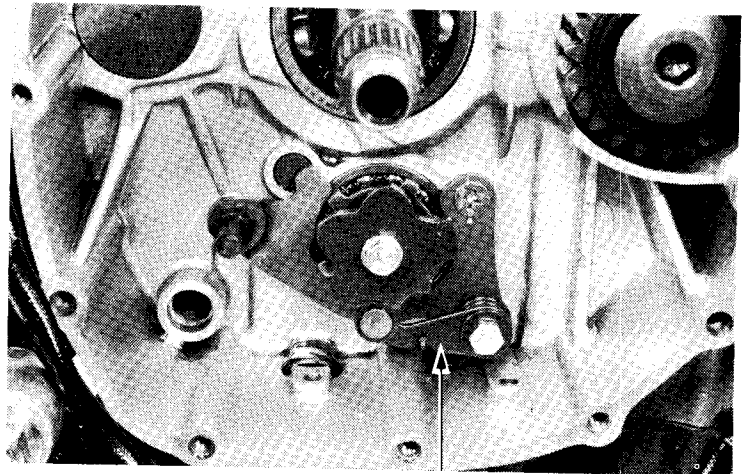


GEARSHIFT SPINDLE



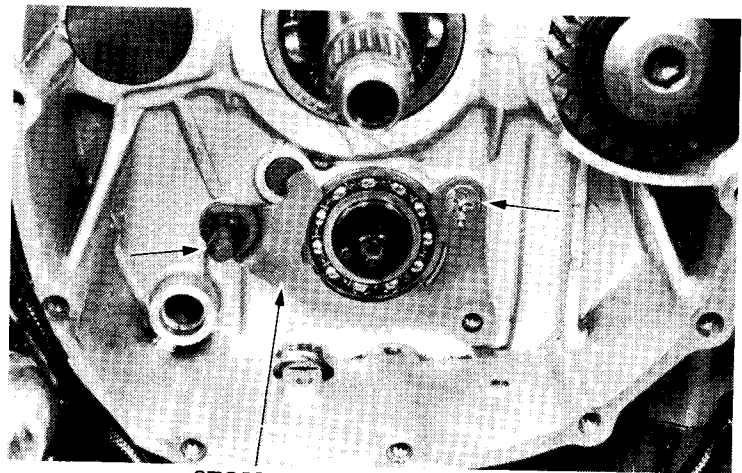
Remove the drum stopper arm bolt, arm and spring.

Remove the roller stopper plate bolt and plate.



DRUM STOPPER ARM

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



STOPPER PLATE

NEUTRAL SWITCH INSPECTION

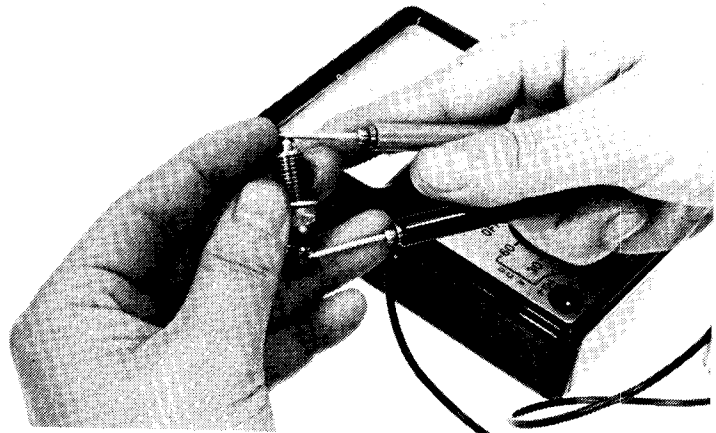
Remove the oil pump cover and neutral switch.

Check for continuity between the top and bottom terminals.

The switch is normal if there is continuity.

Also check for shorts between the top terminal and any body ground.

Replace the switch if there is continuity.



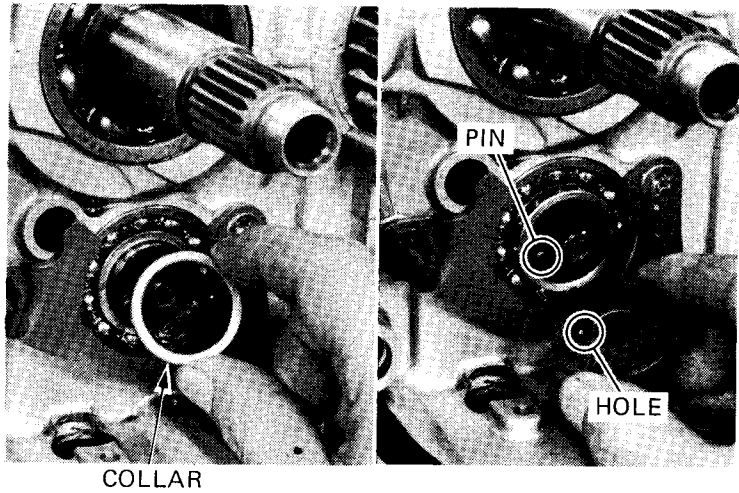


GEARSHIFT LINKAGE INSTALLATION

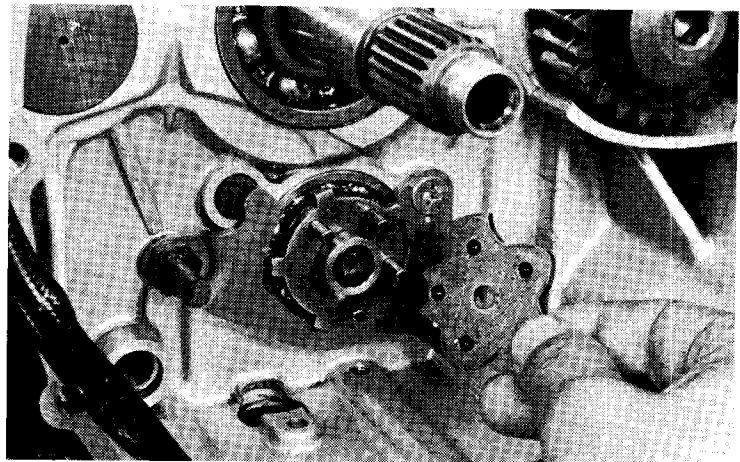
Install the collar.
Align the hole in the roller stopper base plate
with the pin on the shift drum.

NOTE

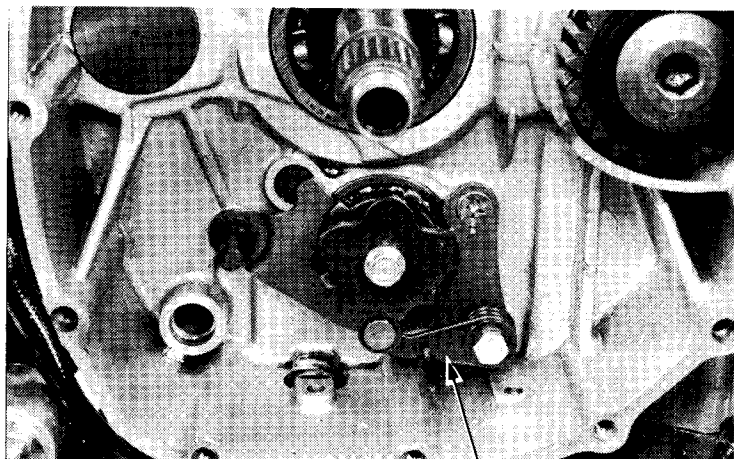
If bearing replacement is necessary,
apply locking agent to the screw
threads.



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



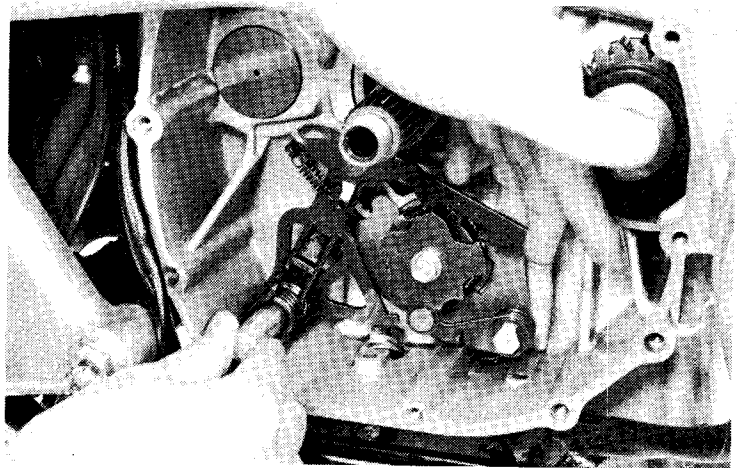
Assemble the gear shift spindle and return spring.

Install as shown.

Rotate the gearshift spindle and check the linkage for smooth operation.

Install the clutch assembly and cover.

Install the gearshift pedal.



Install the neutral switch and connect the lead.

Install the oil pump cover.

