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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 VALUES

Stopper arm shaft	1.0–1.4 kg-m ( 7–10 ft-lb)
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

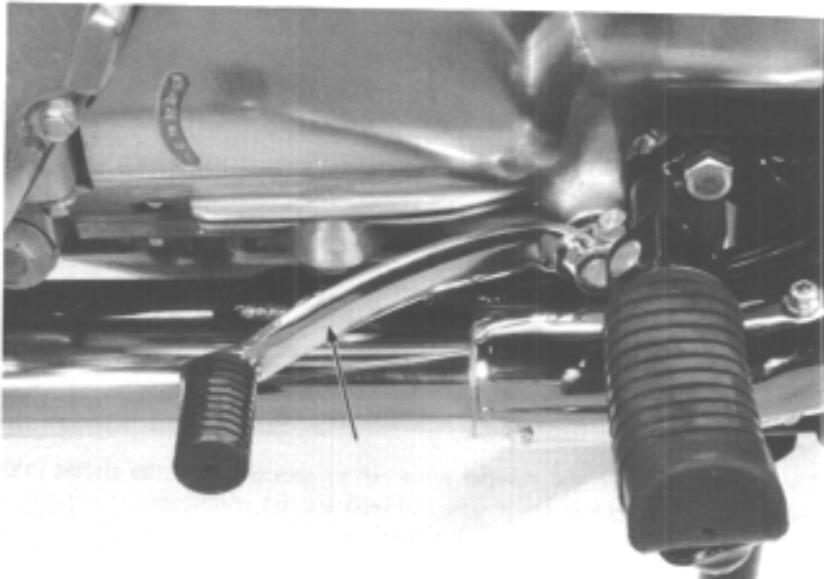
### Transmission jumps out of gear

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



## GEARSHIFT PEDAL AND LINKAGE REMOVAL

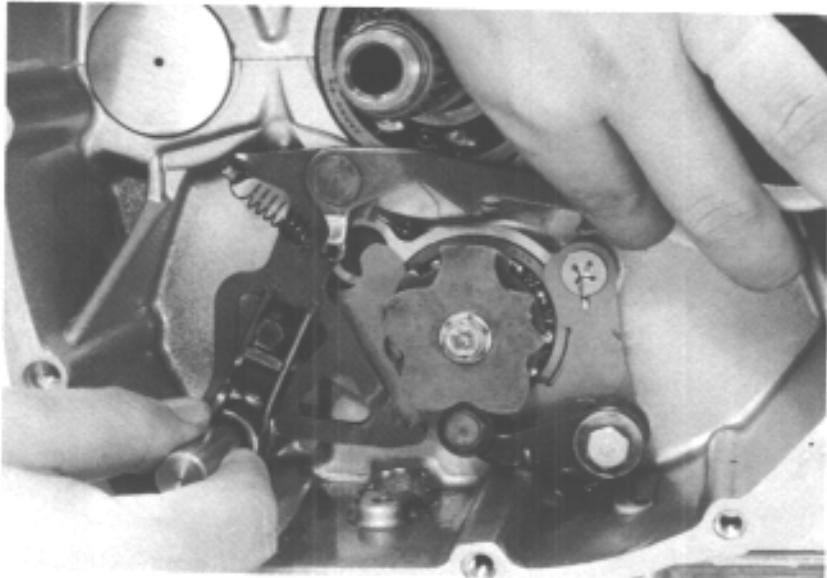
Drain the engine oil.  
Remove the gear shift pedal.



Remove the rear brake pedal.  
Disconnect the clutch cable at the lower adjuster.  
Remove the clutch cover and clutch assembly (Section 8).



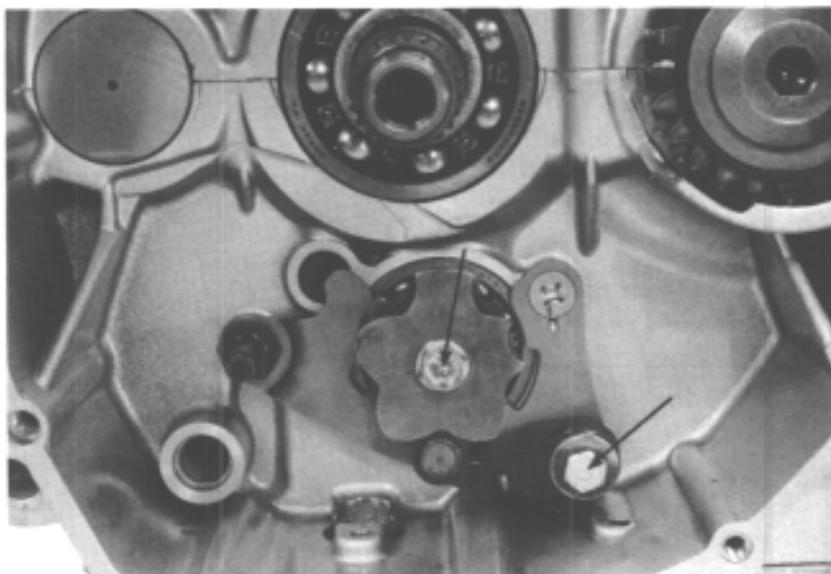
Pull the gearshift spindle assembly out.



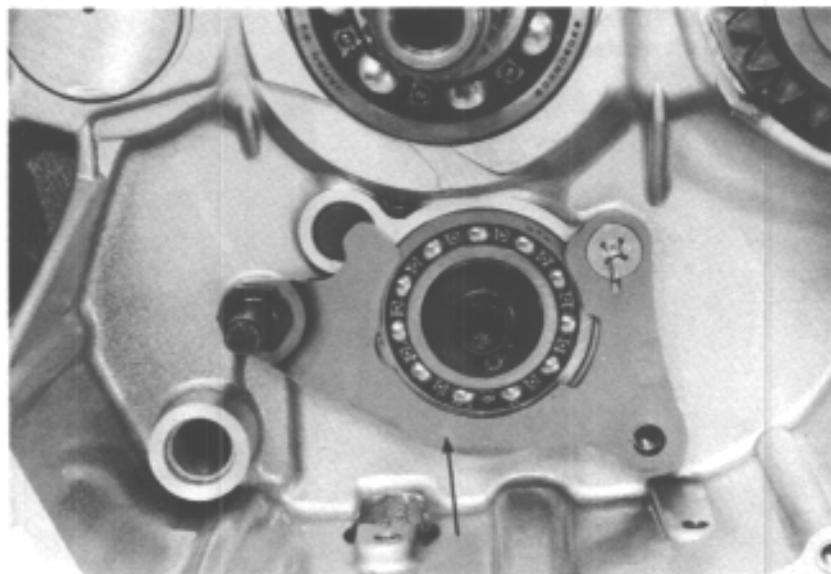


Remove the drum stopper armbolt, arm and spring.

Remove the roller stopper plate bolt and plate.



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



#### NEUTRAL SWITCH INSPECTION

Remove the left rear crankcase cover and neutral switch.

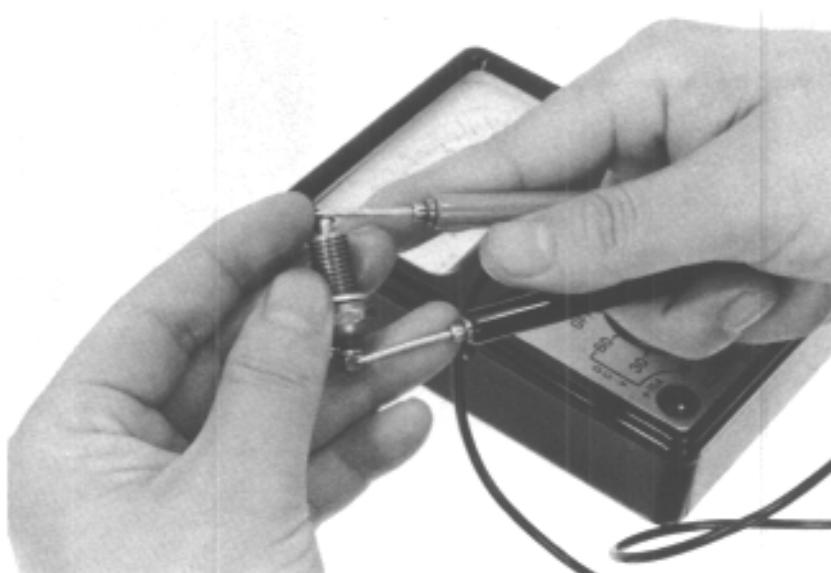
Check for continuity between the top and bottom terminals.

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.





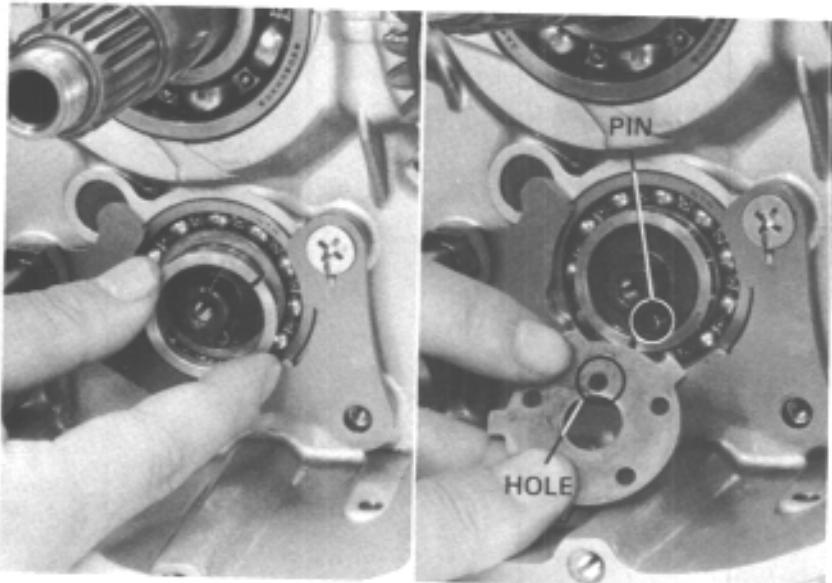
## GEARSHIFT LINKAGE AND PEDAL INSTALLATION

Install the collar.

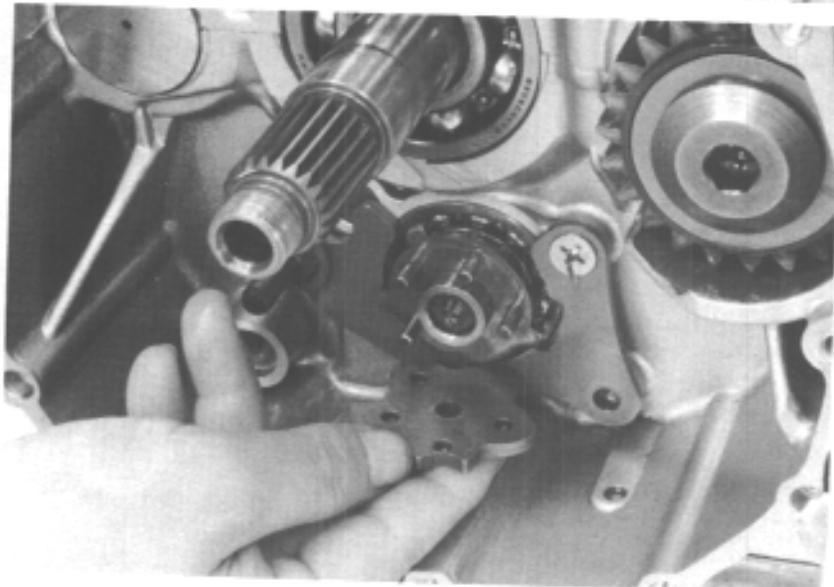
Align the hole in the roller stopper base plate with the pin on the shift drum.

### NOTE

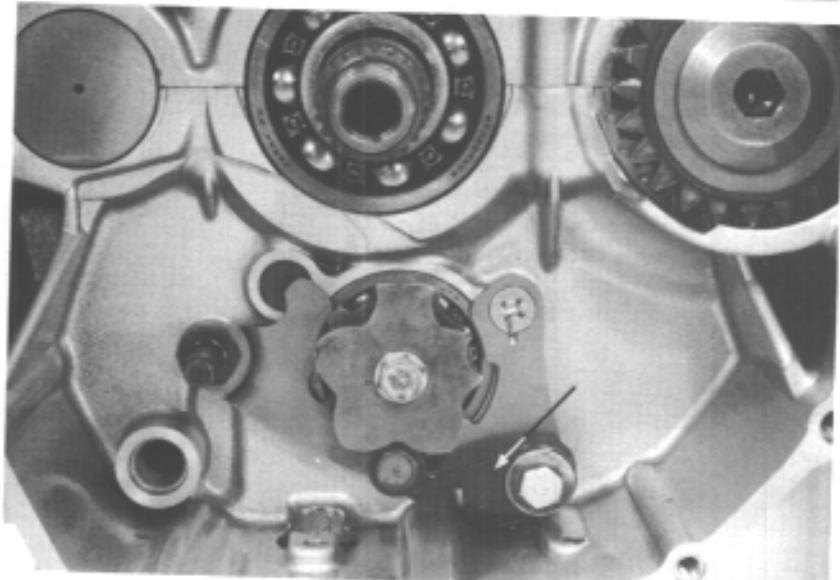
If bearing replacement is necessary, apply locking agent to the screw threads.



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.



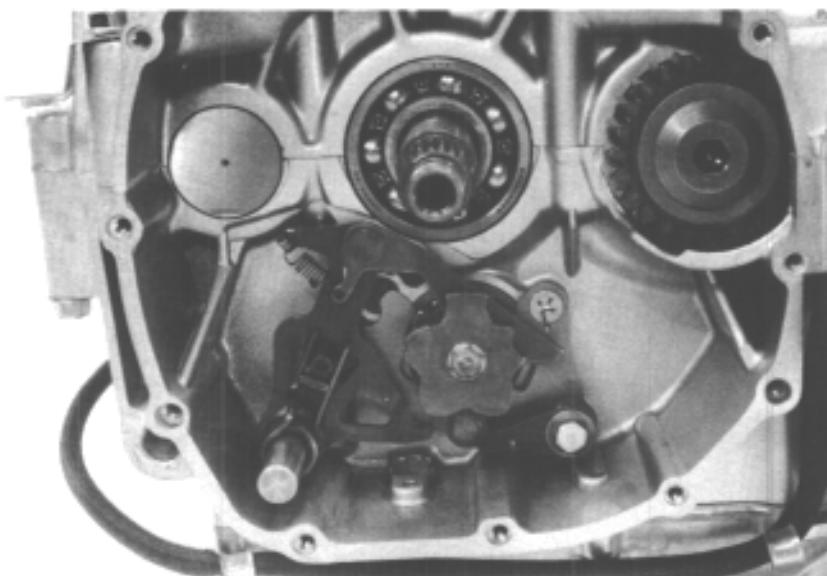


Assemble the gear shift spindle and return spring.

Install as shown.

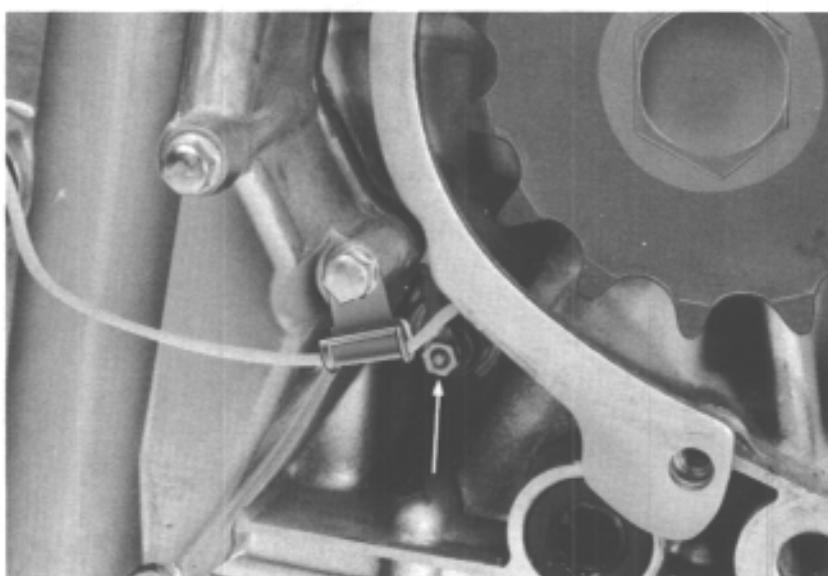
Rotate the gearshift spindle and check the linkage for smooth operation.

Install the clutch assembly and cover.



Install the neutral switch and connect the lead.

Install the left rear crankcase cover.



Install the gear shift pedal as shown.  
Tighten the bolt securely.

