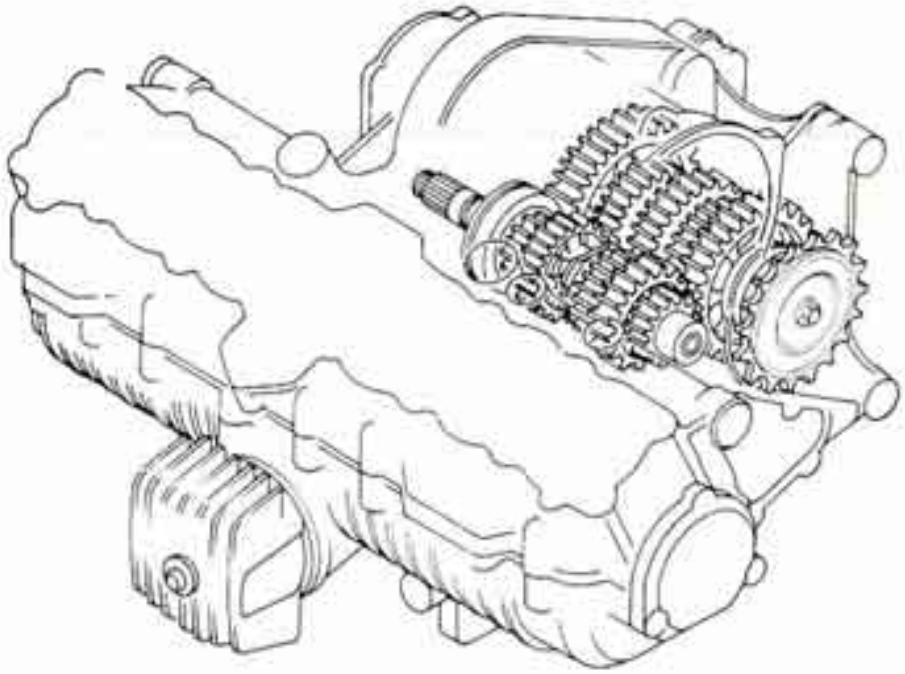
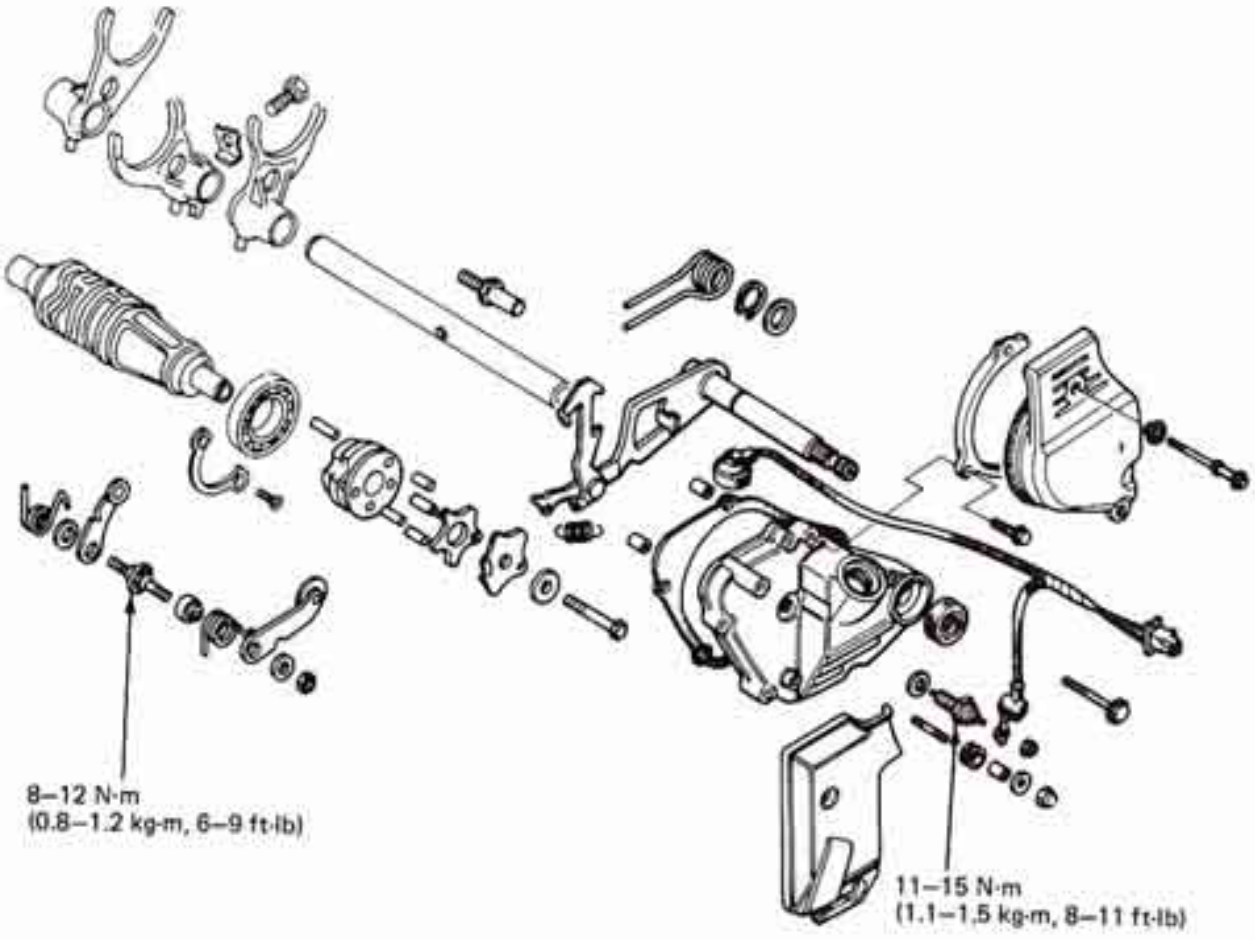




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SERVICE INFORMATION

GENERAL INSTRUCTIONS

- The gearshift spindle and stopper arms can be serviced with the engine in the frame.
- The outline of the shift forks and drum can be inspected by removing the oil pan. If the shift forks, drum or transmission require servicing, remove the engine and separate the crankcases.

TORQUE VALUES

Stopper arm shaft	8–12 N·m (0.8–1.2 kg-m, 6– 9 ft-lb)
Neutral switch	11–15 N·m (1.1–1.5 kg-m, 8–11 ft-lb)
Oil drain bolt	28–32 N·m (2.8–3.2 kg-m, 20–23 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

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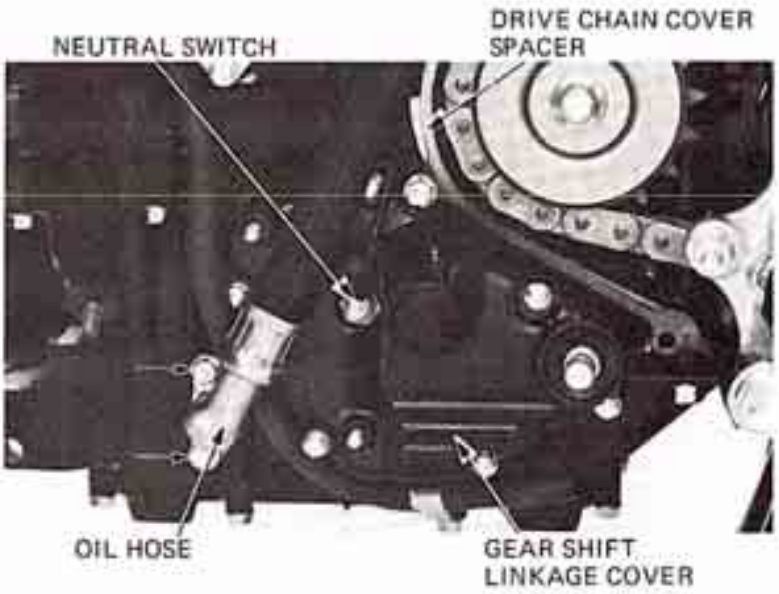
GEARSHIFT PEDAL AND LINKAGE REMOVAL

Drain engine oil.

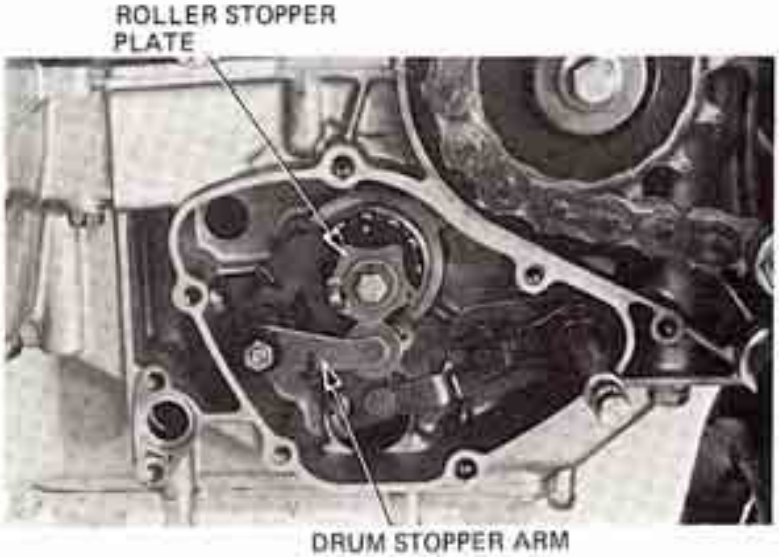
Remove the left exhaust pipes.
Remove the oil hose cover.
Remove the gear shift pedal.
Remove the drive sprocket cover.



Remove the oil hose.
Disconnect the neutral switch lead.
Remove the drive sprocket and gear shift linkage covers.
Remove the gasket and dowel pins.
Remove the drive chain cover spacer.



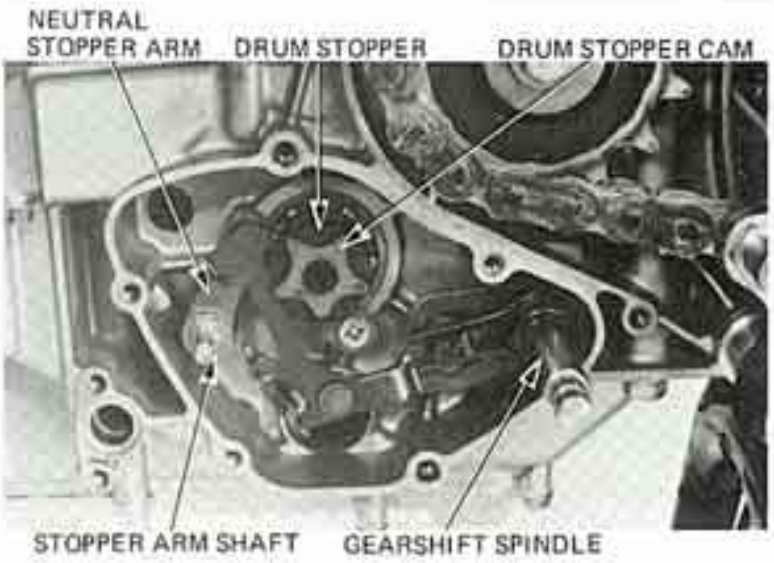
Remove the roller stopper plate bolt and plate.
Remove the drum stopper arm nut, arm and spring.



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Remove the gearshift spindle assembly.
Remove the drum stopper cam and drum stopper.
Loosen the stopper arm shaft.
Remove the neutral stopper arm and spring.

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



NEUTRAL SWITCH INSPECTION

Check the switch operation.
Check the neutral switch for continuity between the top and bottom terminals, when pressing the end terminal.
The switch is normal if there is continuity. Also check for shorts between the top terminal and any ground.
Replace the switch if there is continuity.

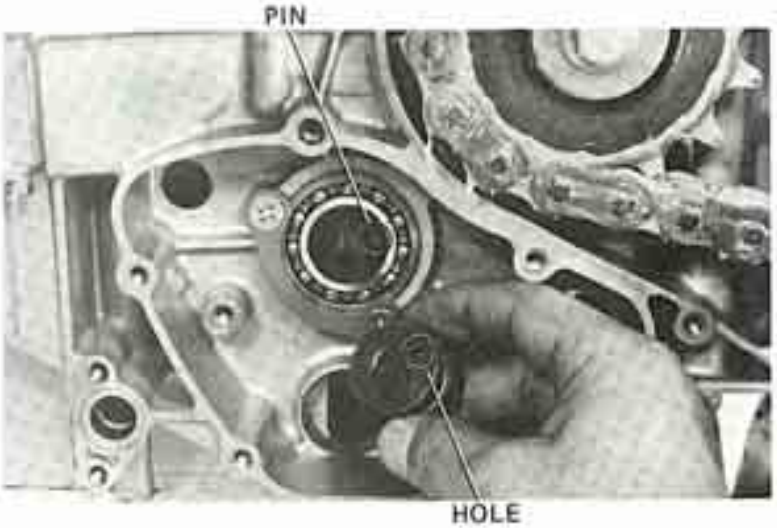


GEARSHIFT LINKAGE INSTALLATION

Align the hole in the drum stopper with the pin on the shift drum.

NOTE

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

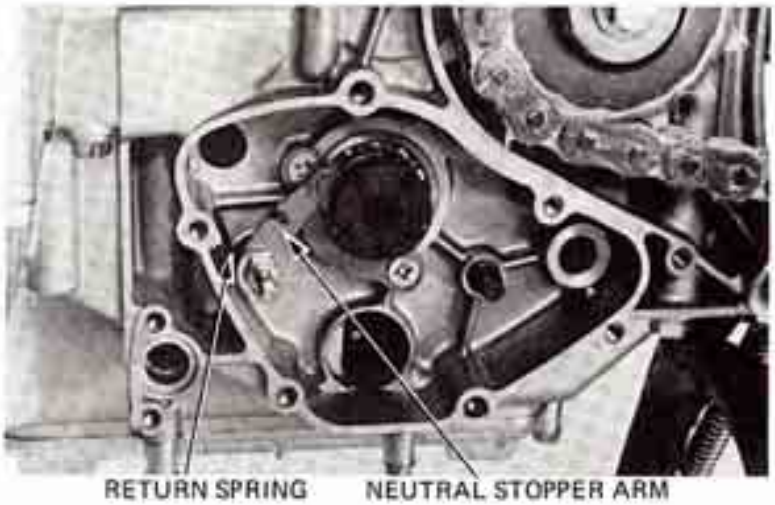


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Install the stopper arm shaft, neutral stopper arm and return spring.

TORQUE:
8–12 N·m (0.8–1.2 kg-m, 6–9 ft-lb)

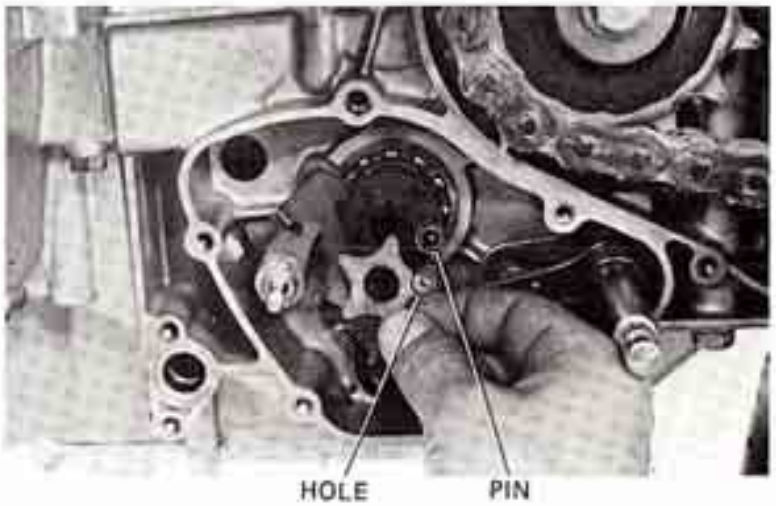
Make sure that the roller on the neutral stopper arm is positioned correctly in the groove of the drum stopper.



Assemble the gearshift spindle, return spring and snap ring.
Install as shown.

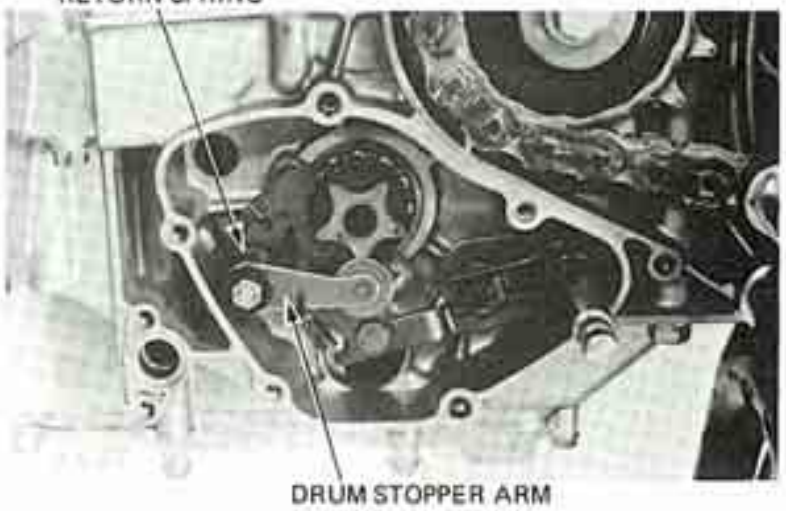


Align the hole in the drum stopper cam with the pin on the drum stopper.



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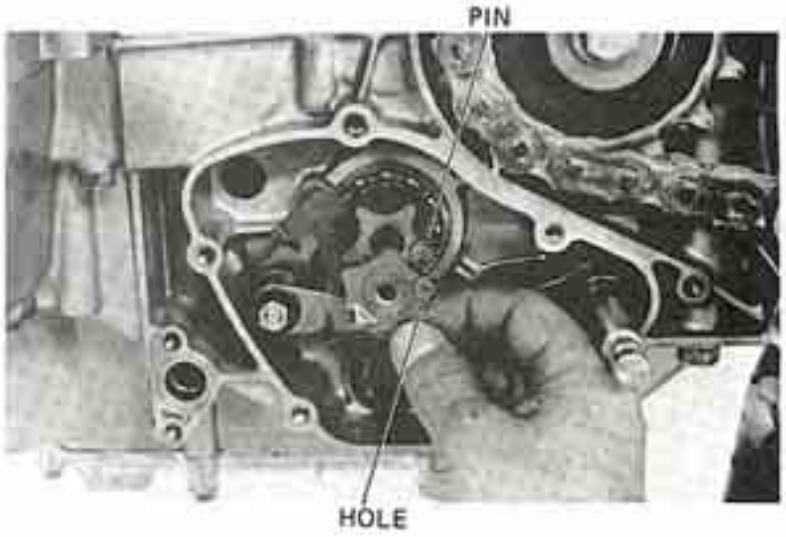
Install the drum stopper arm and return spring.



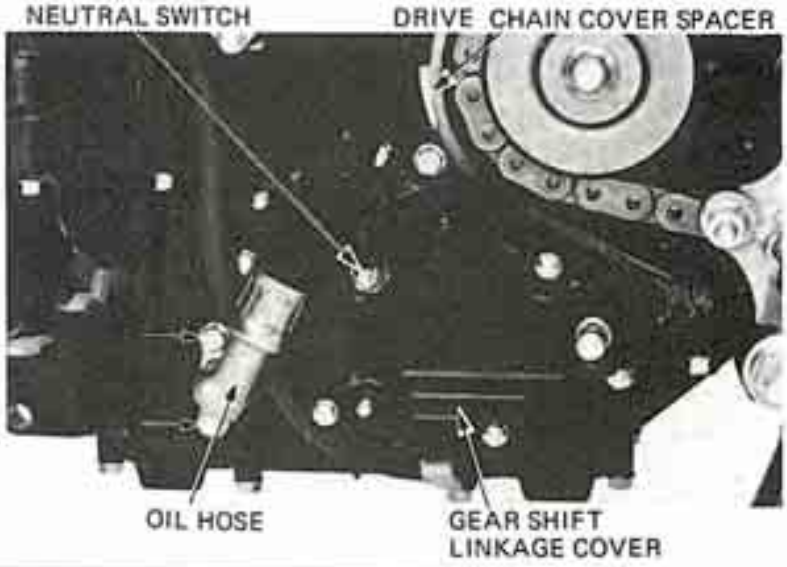
Align the hole in the roller stopper plate with the pin on the drum stopper cam.

Apply a locking agent to the bolt.
Tighten the stopper plate bolt securely.

Check the linkage for smooth operation by rotating the gearshift spindle.



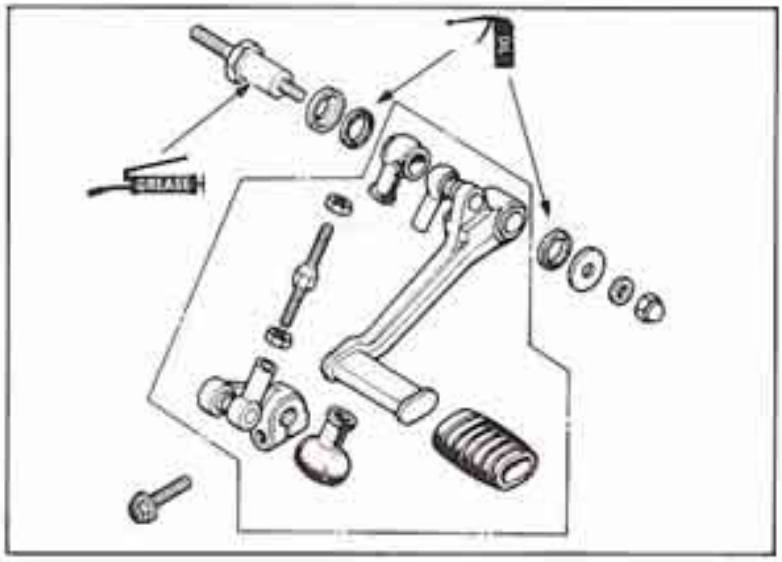
Install the gearshift linkage cover.
Install the drive sprocket cover spacer.
Connect the neutral switch lead.
Apply grease or oil to the O-ring and install it on the oil hose.
Connect the oil hose.
Install the oil hose and drive sprocket covers.



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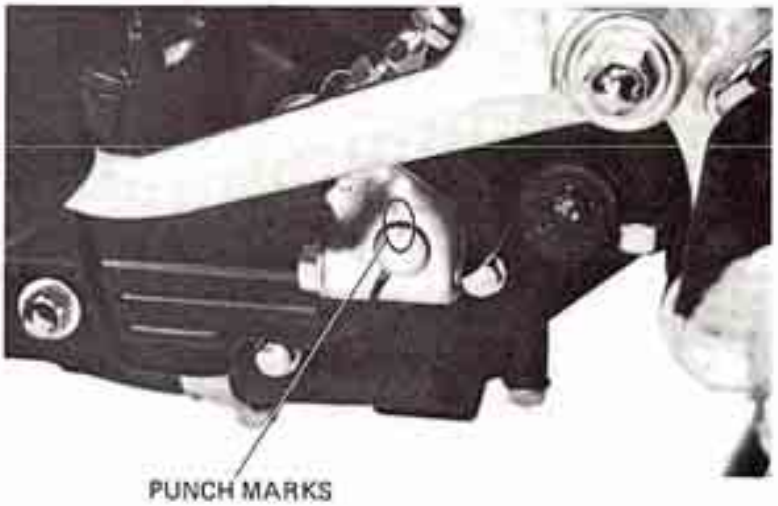
GEARSHIFT PEDAL INSTALLATION

Install the gear shift pedal as shown.



NOTE

- Coat the dust seal with oil.
- Align the punch mark on the joint arm with the punch mark on the gear shift spindle.
- Tighten the bolt and nut securely.



PUNCH MARKS

Adjust by turning the adjuster after loosening the lock nuts.
Tighten the lock nuts.



LOCK NUTS

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