

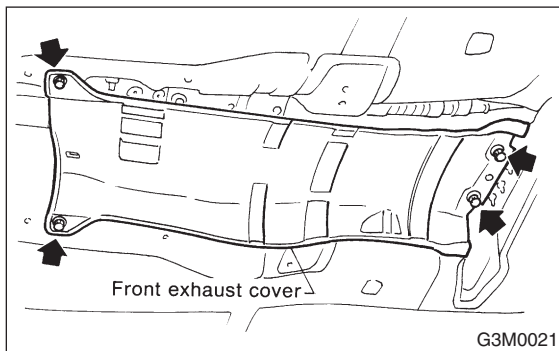
2. Propeller Shaft S301160

A: REMOVAL S301160A18

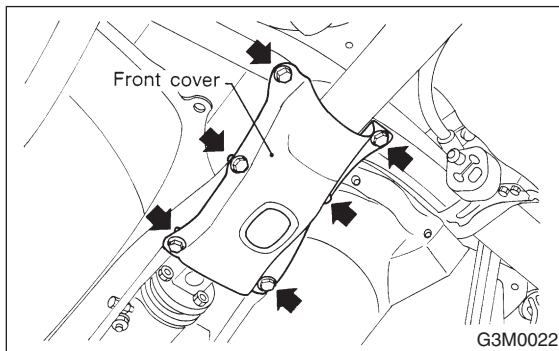
NOTE:

Before removing propeller shaft, wrap metal parts with a cloth or rubber material.

- 1) Disconnect ground terminal from battery.
- 2) Move selector lever or gear shift lever to "N".
- 3) Release the parking brake.
- 4) Jack-up vehicle and support it with sturdy racks.
- 5) Remove rear exhaust pipe and muffler.
<Ref. to EX-10 REMOVAL, Rear Exhaust Pipe.>
and <Ref. to EX-12 REMOVAL, Muffler.>
- 6) Remove front exhaust cover.



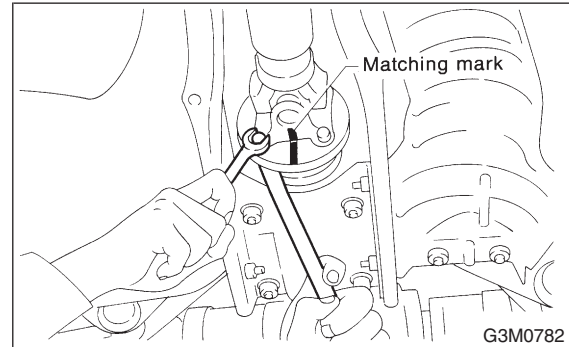
- 7) Remove differential mount front cover.



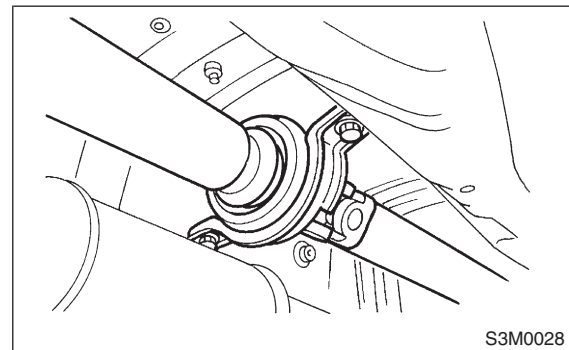
- 8) Remove the four bolts which hold propeller shaft to rear differential.

NOTE:

- Put matching mark on affected parts before removal.
- Remove all but one bolt.



- 9) Remove the two bolts which hold center bearing to vehicle body.



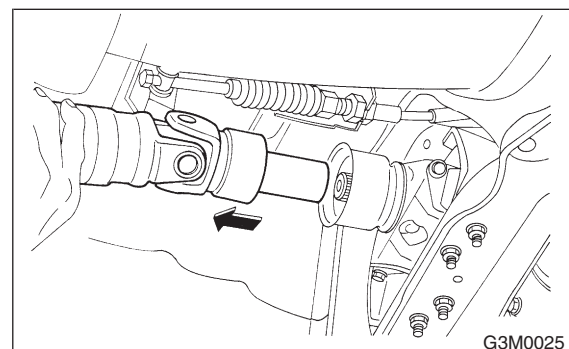
- 10) Remove propeller shaft from transmission.

CAUTION:

Be sure not to damage oil seals and the frictional surface of sleeve yoke.

NOTE:

- Be sure to use an empty oil can to catch oil flowing out when removing propeller shaft.
- Be sure to plug the opening in transmission after removal of propeller shaft.



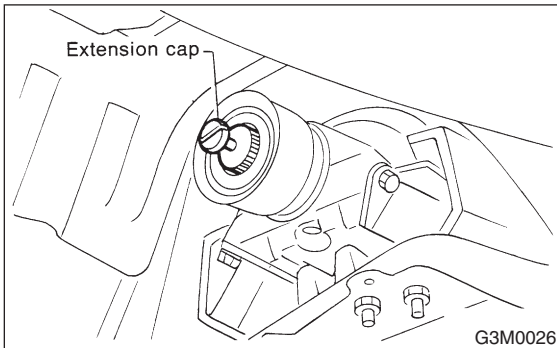
PROPELLER SHAFT

Drive Shaft System

11) Install the extension cap to transmission.

NOTE:

If extension cap is not available, cover the opening with a vinyl bag in order to prevent transmission gear oil or ATF leakage.



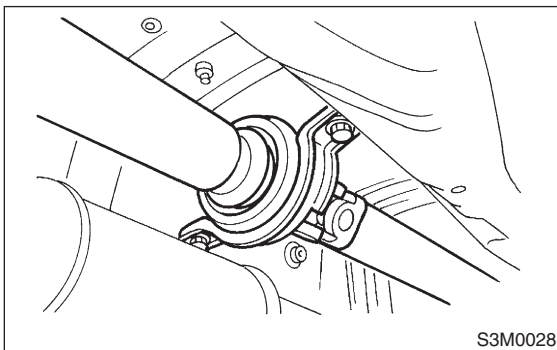
B: INSTALLATION

S301160A11

1) Insert sleeve yoke into transmission and attach center bearing to vehicle body.

Tightening torque:

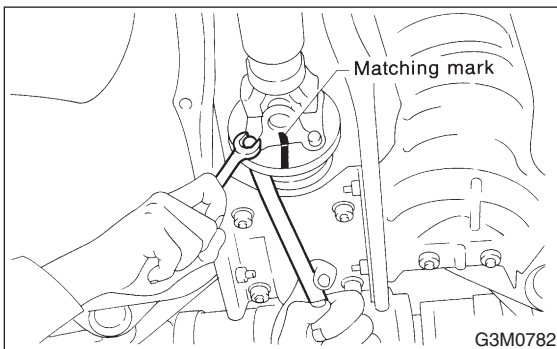
52 N·m (5.3 kgf-m, 38.3 ft-lb)



2) Align matching marks and connect flange yoke and rear differential.

Tightening torque:

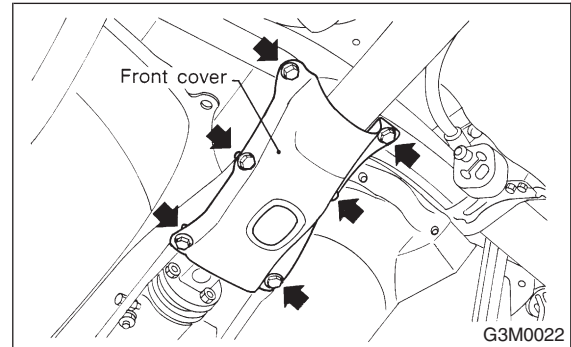
31 N·m (3.2 kgf-m, 23.1 ft-lb)



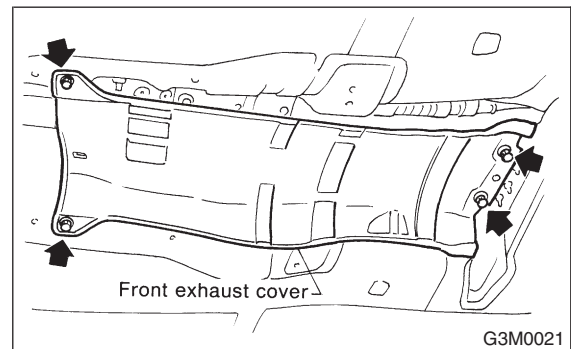
3) Install differential mount front cover.

Tightening torque:

88 N·m (9.0 kgf-m, 65 ft-lb)



4) Install front exhaust cover.



5) Install rear exhaust pipe and muffler.

C: DISASSEMBLY

S301160A06

NOTE:

Do not disassemble propeller shaft. It is a single unit.

D: ASSEMBLY

S301160A02

NOTE:

Do not disassemble propeller shaft. It is a single unit.

E: INSPECTION S301160A10

NOTE:

Do not disassemble propeller shaft. Check the following and replace if necessary.

- 1) Tube surfaces for dents or cracks
- 2) Splines for deformation or abnormal wear
- 3) Joints for non-smooth operation or abnormal noise
- 4) Center bearing for free play, noise or non-smooth operation
- 5) Oil seals for abnormal wear or damage
- 6) Center bearing for breakage

Check the following points with propeller shaft installed in vehicle.

- 7) Joints and connections

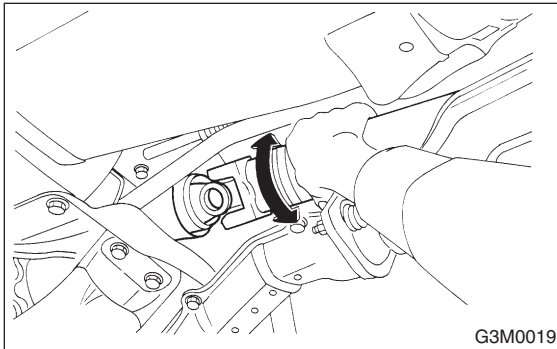
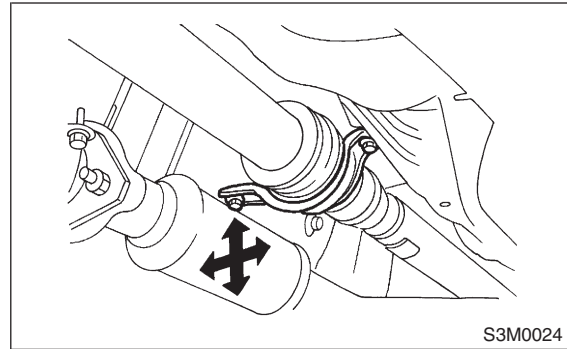
Check for any looseness of yoke flange connecting bolts and center bearing retaining bolts.

- 8) Splines and bearing locations

Turn propeller shaft by hand to see if abnormal free play exists at splines. Also move yokes to see if abnormal free play exists at spiders and bearings.

- 10) Center bearing free play

While holding propeller shaft near center bearing with your hand, move it up and down, and left and right to check for any abnormal bearing free play.



- 9) Runout of propeller shaft

Turn rear wheels by hand to check for “runout” of propeller shaft.

NOTE:

Measure runout with a dial gauge at the center of front and rear propeller shaft tubes.

Runout:

Limit 0.6 mm (0.024 in)

