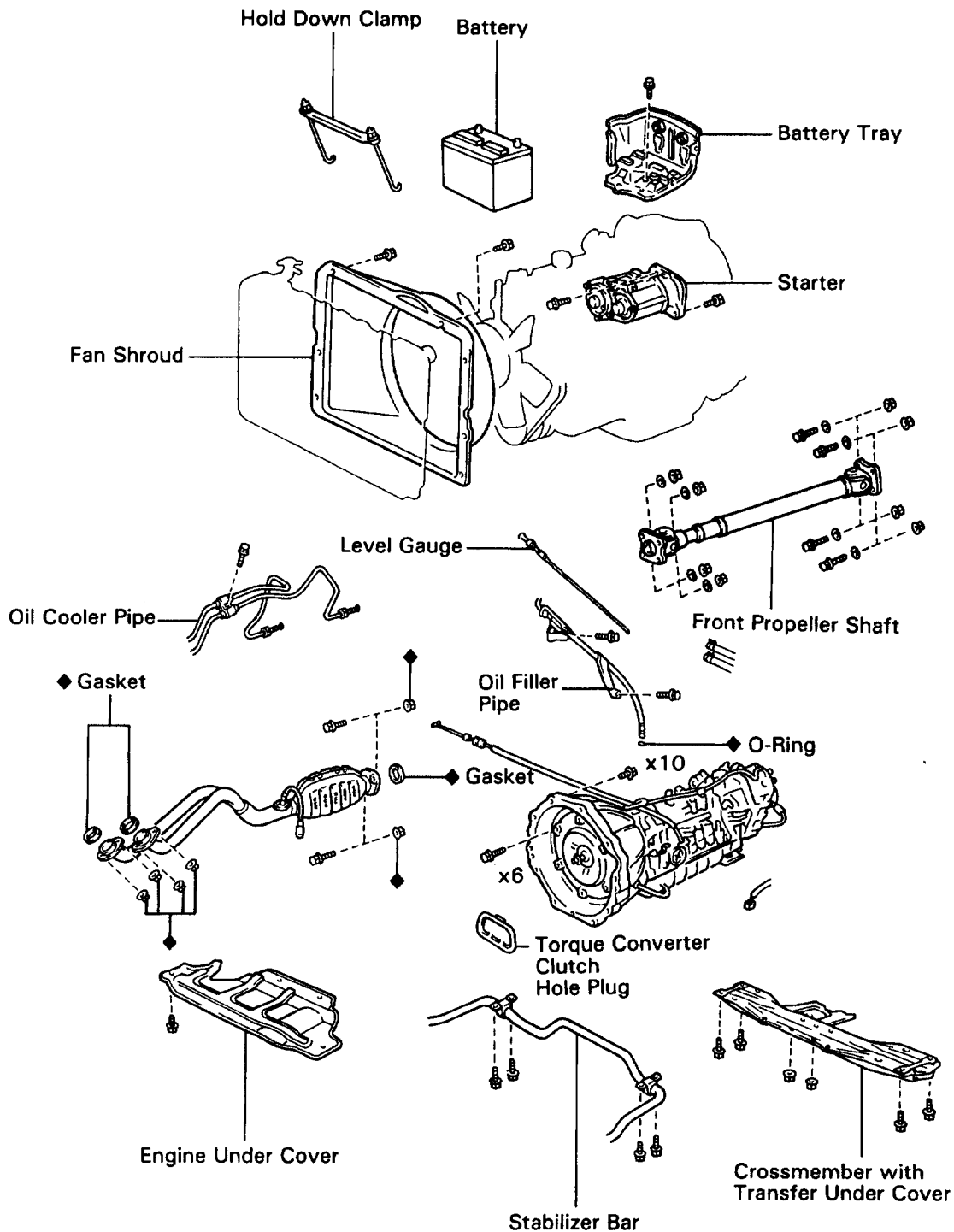
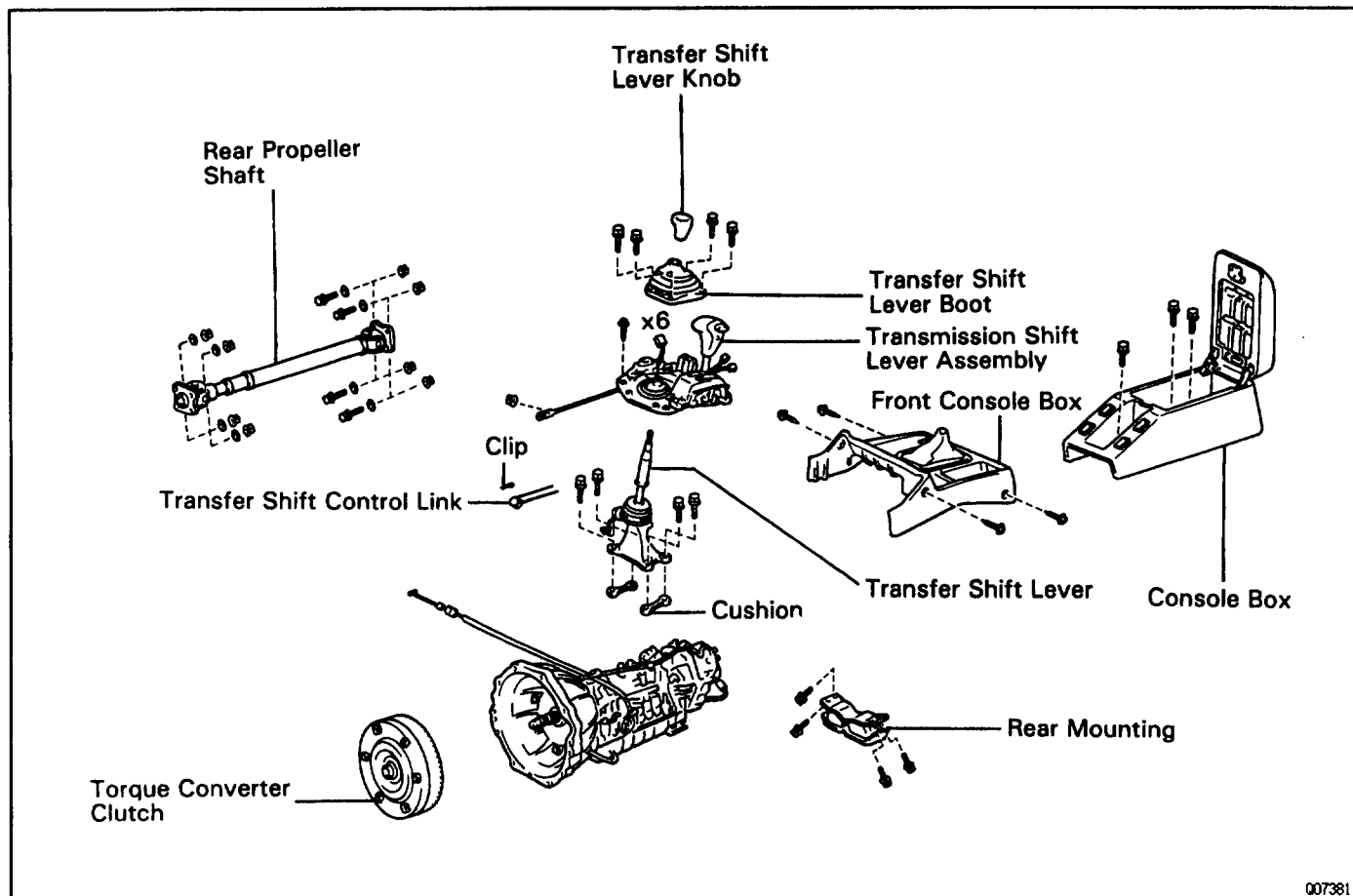


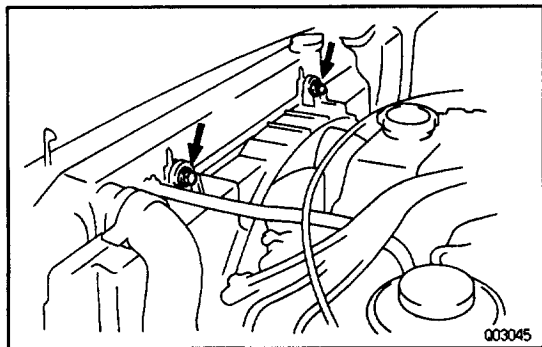
ASSEMBLY REMOVAL AND INSTALLATION COMPONENTS



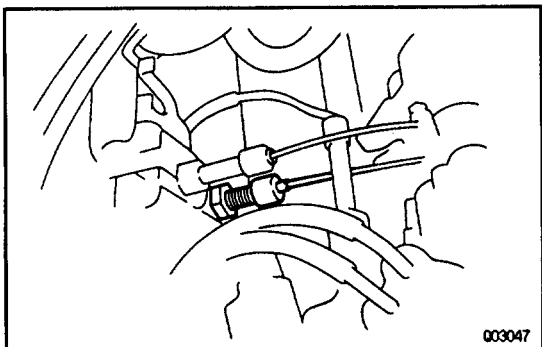
◆ Non-reusable part



007381



003045



003047

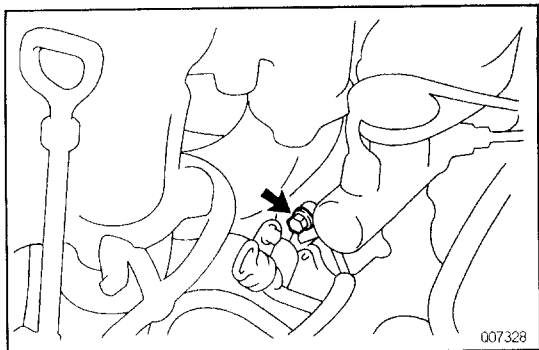
TRANSMISSION REMOVAL

Installation is in the reverse order of removal.

INSTALLATION HINT:

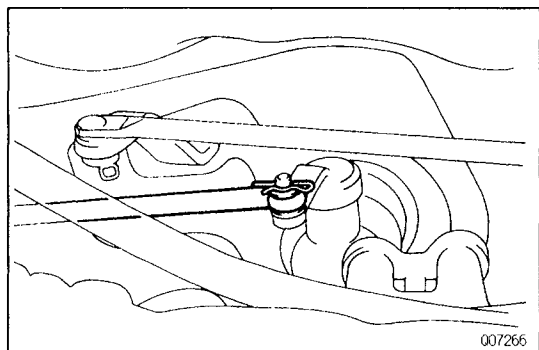
- After installation, adjust the shift lever position and throttle cable. (See page [AT-51](#))
- Fill and check fluid level. (See page [AT-50](#))

1. **REMOVE BATTERY AND BATTERY TRAY**
2. **REMOVE 2 BOLTS AND LOOSEN FAN SHROUD OF COOLING FAN TO AVOID DAMAGE TO FAN**
3. **DISCONNECT THROTTLE CABLE**
 - (a) Loosen the adjusting nut and disconnect the cable from the bracket.
 - (b) Disconnect the throttle cable from the linkage.



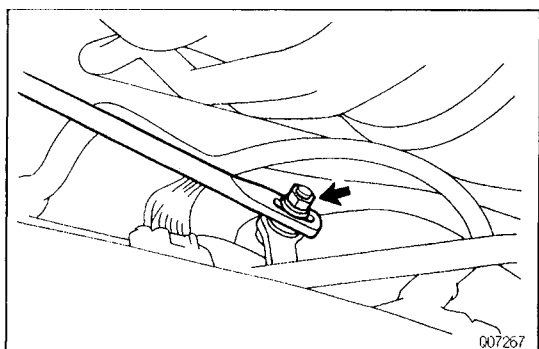
4. REMOVE UPPER SIDE STARTER MOUNTING BOLT

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

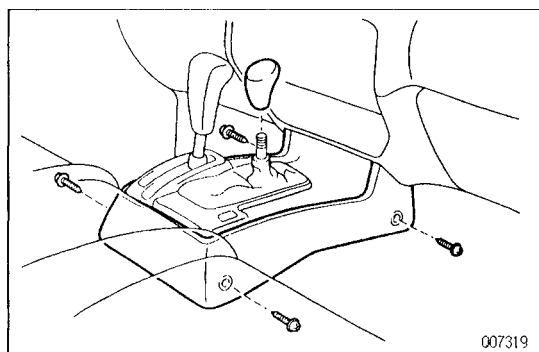


5. REMOVE TRANSMISSION SELECT LEVER AND TRANSFER SHIFT LEVER

(a) Remove the clip, washer and wave washer, and disconnect the link.

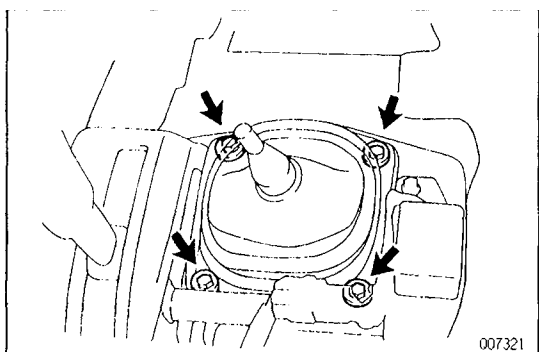


(b) Remove the nut and washer, and disconnect the link.

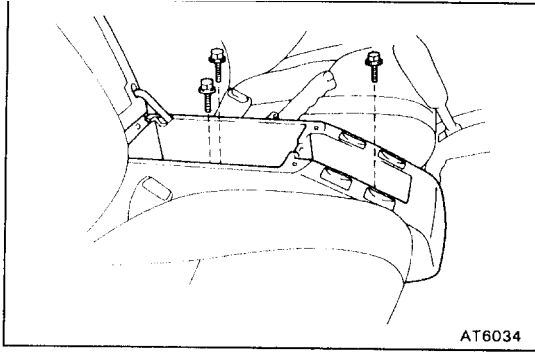


(c) Remove the transfer shift lever knob.

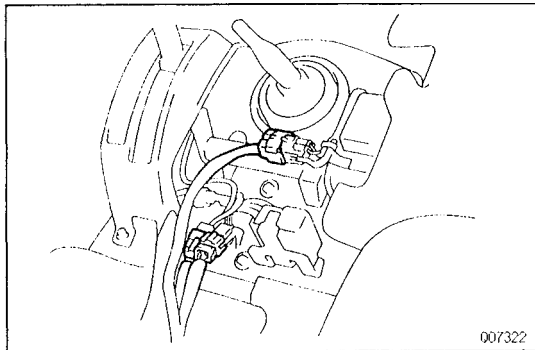
(d) Remove the 4 screws and console.



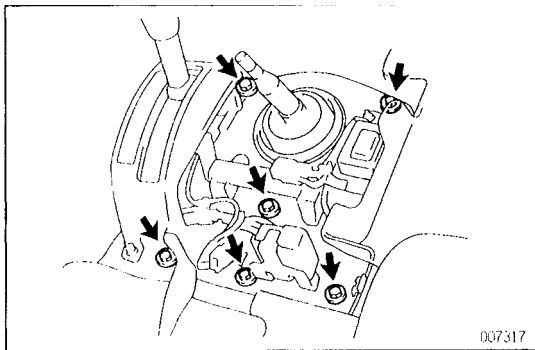
(e) Remove the 4 screws and transfer shift lever boot.



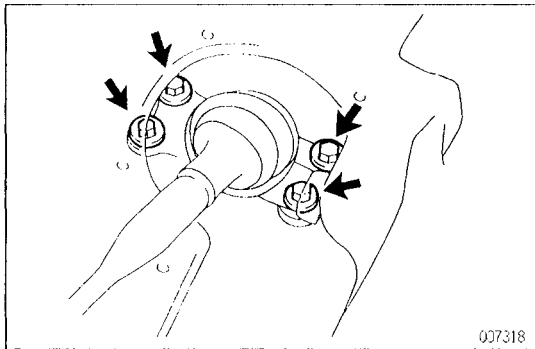
(f) Remove the 3 bolts and console box.



(g) Disconnect the 3 connectors.



(h) Remove the 6 screws and transmission shift lever assembly.



(i) Remove the 4 bolts and transfer shift lever.

Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

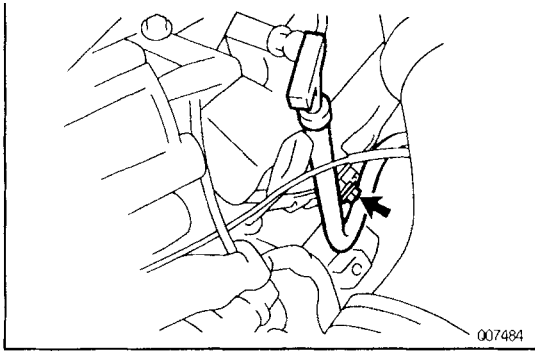
(j) Remove the 2 cushions.

6. DISCONNECT THESE CONNECTORS:

- No.1 vehicle speed sensor
- No.2 vehicle speed sensor
- Park/neutral position switch
- Solenoid connector
- A/T fluid temperature sensor

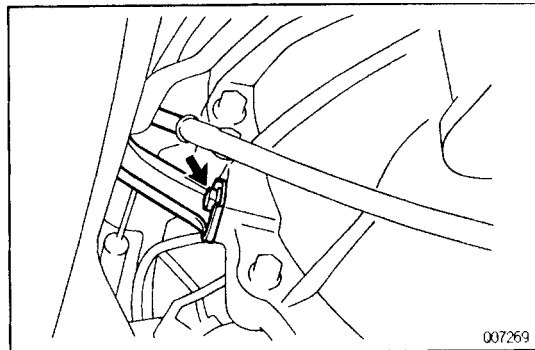
7. DISCONNECT CONNECTORS AND HOSES FROM TRANSFER

8. REMOVE FRONT AND REAR PROPELLER SHAFT
(See page [PR-4](#))

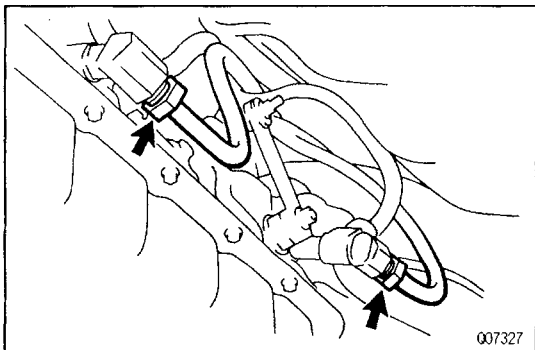


9. REMOVE OIL FILLER PIPE

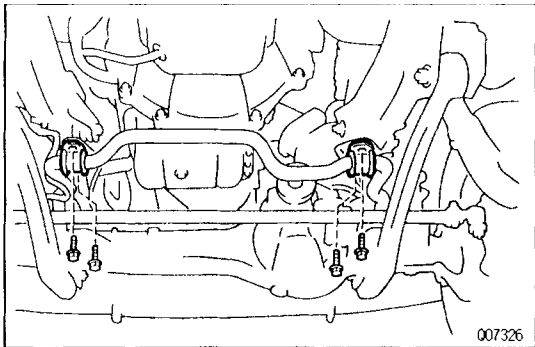
- (a) Remove the level gauge.
- (b) Remove the upper side mounting bolt.



- (c) Remove the bolt and filler pipe.
INSTALLATION HINT: Replace used O-ring with a new one.

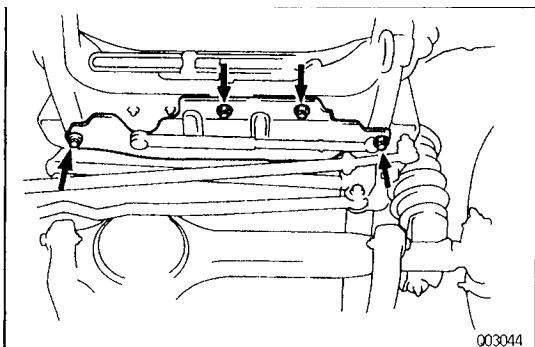


10. LOOSEN 2 OIL COOLER PIPE UNION NUTS



11. REMOVE 4 STABILIZER BAR BRACKET MOUNTING BOLTS

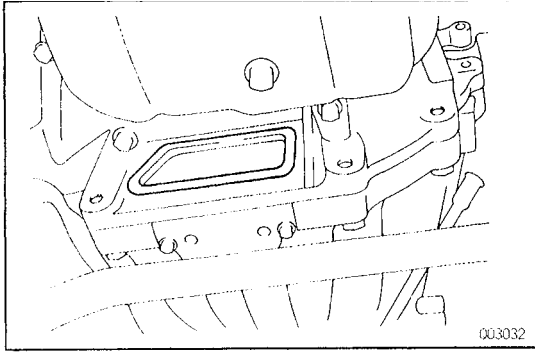
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)



12. REMOVE ENGINE UNDER COVER

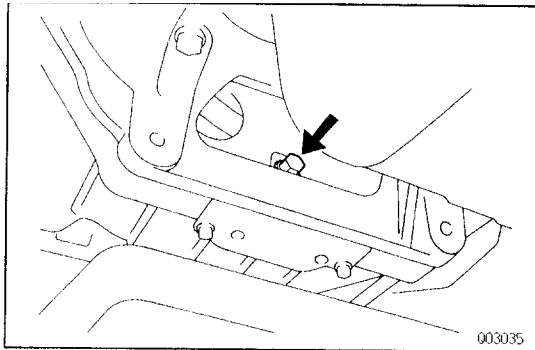
Remove the 4 bolts and engine under cover.

Torque: 28 N·m (290 kgf·cm, 21 ft·lbf)



13. REMOVE TORQUE CONVERTER CLUTCH MOUNTING BOLTS

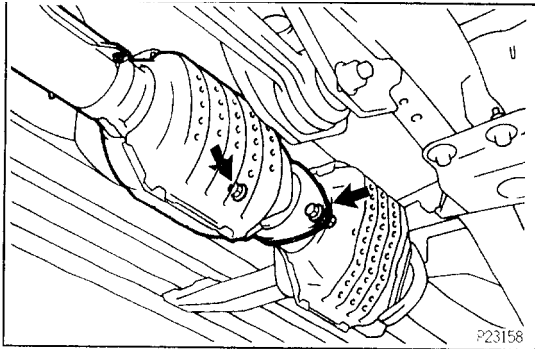
- (a) Remove the converter hole plug.



- (b) Turn the crankshaft to gain access to each bolt.
 (c) Hold the crankshaft pulley nut with a wrench and remove the 6 bolts.

Torque: 55 N·m (550 kgf·cm, 40 ft·lbf)

INSTALLATION HINT: First install gray colored bolt and then 5 other bolts.

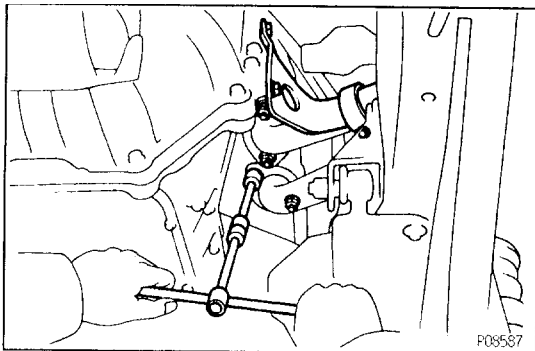


14. REMOVE FRONT EXHAUST PIPE ASSEMBLY

- (a) Remove the 2 nuts, bolts and gasket, and disconnect the front exhaust pipe assembly.

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

INSTALLATION HINT: Replace used nuts and gasket with new nuts and gasket.



- (b) Loosen the clamp bolt and disconnect the clamp from the No.1 support bracket.

Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)

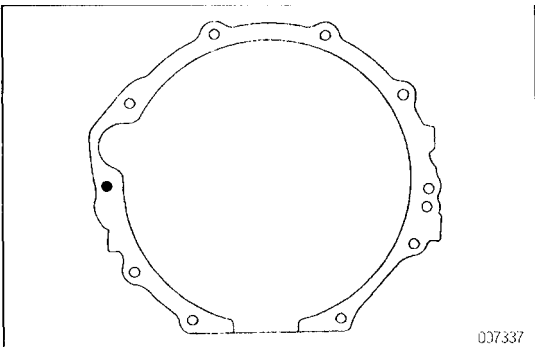
- (c) Remove the 2 bolts and No.1 support bracket.

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

- (d) Remove the 4 nuts and 2 gaskets, shift the front exhaust pipe assembly to the vehicle's outside.

Torque: 62 N·m (630 kgf·cm, 46 ft·lbf)

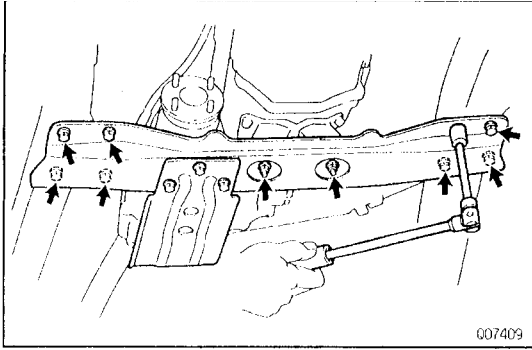
INSTALLATION HINT: Replace used gaskets and nuts with new gaskets and nuts.



15. REMOVE STARTER

- (a) Remove the nut and disconnect the terminal and connector.
 (b) Remove the lower side mounting bolt and starter.

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)



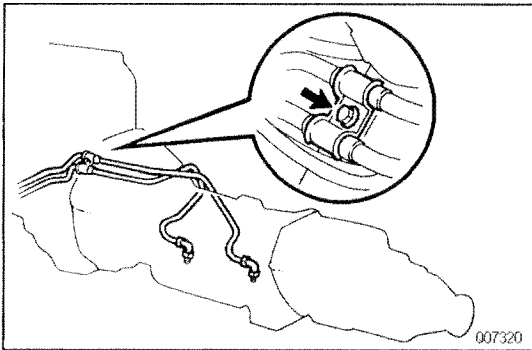
16. REMOVE CROSSMEMBER

- (a) Support the transmission with the transmission jack.
- (b) Remove the 8 bolts and 2 nuts, and then remove the crossmember.

Torque:

Bolt: 61 N·m (620 kgf·cm, 45 ft·lbf)

Nut: 74 N·m (750 kgf·cm, 54 ft·lbf)

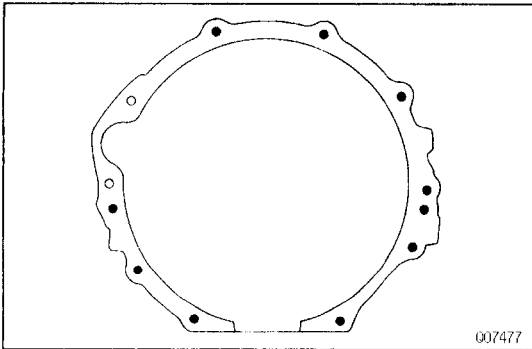


17. REMOVE TRANSMISSION

- (a) Lower the rear end of the transmission.
NOTICE: Be careful not to damage the cooling fan, brake booster and brake line.
- (b) Separate the wire harness from the transmission and transfer.
- (c) Remove the oil cooler pipe mounting bolts from the torque converter clutch housing, and then disconnect the 2 oil cooler pipes from the elbows.

- (d) Remove the 10 bolts and transmission.

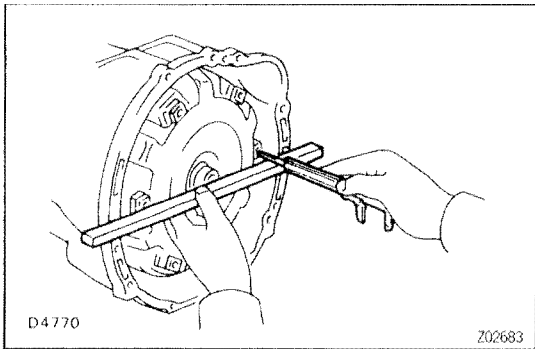
Torque: 72 N·m (730 kgf·cm, 53 ft·lbf)



TRANSMISSION INSTALLATION

Using calipers and a straight edge, measure from the installed surface of the transmission housing.

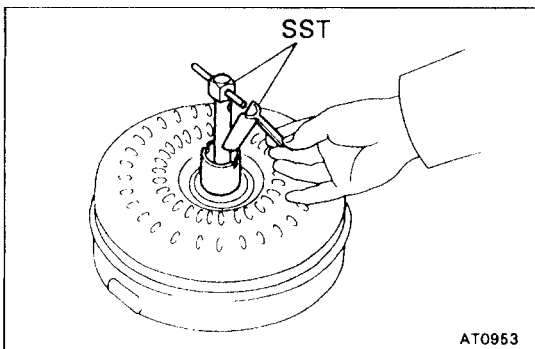
Correct distance: More than 15.7 mm (0.618 in.)

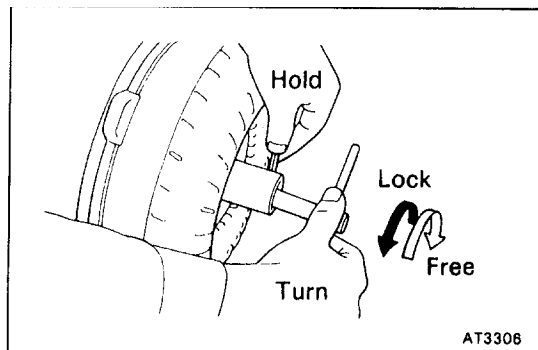


TORQUE CONVERTER CLUTCH AND DRIVE PLATE INSPECTION

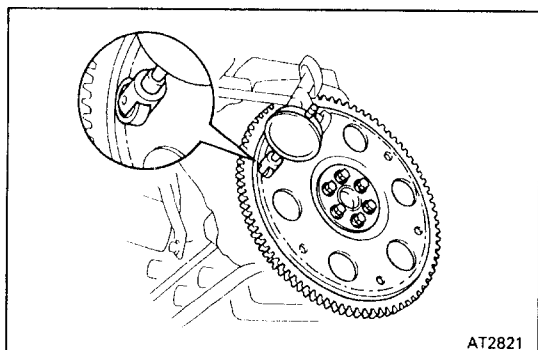
1. INSPECT ONE-WAY CLUTCH

- (a) Install SST in the inner race of one-way clutch.
SST 09350-30020 (09351-32010)
- (b) Install SST so that it fits in the notch of the converter hub and outer race of the one-way clutch.
SST 09350-30020 (09351-32010)





- (c) With the torque converter clutch standing on its side, the clutch locks when turned counterclockwise, and rotates freely and smoothly when turned clockwise. If necessary, clean the converter and retest the clutch. Replace the converter if the clutch still fails the test.



2. MEASURE DRIVE PLATE RUNOUT AND INSPECT RING GEAR

Set up a dial indicator and measure the drive plate runout.

Maximum runout: 0.20 mm (0.0079 in.)

If runout is not within specification, replace the drive plate.

Torque: 98 N·m (1,000 kgf·cm, 72 ft·lbf)

3. MEASURE TORQUE CONVERTER CLUTCH SLEEVE RUNOUT

Temporarily mount the torque converter clutch to the drive plate. Set up a dial indicator.

Maximum runout: 0.30 mm (0.0118 in.)

If runout is not within specification, try to correct by reorienting the installation of the converter clutch.

HINT: Mark the position of the converter clutch to ensure correct installation.

