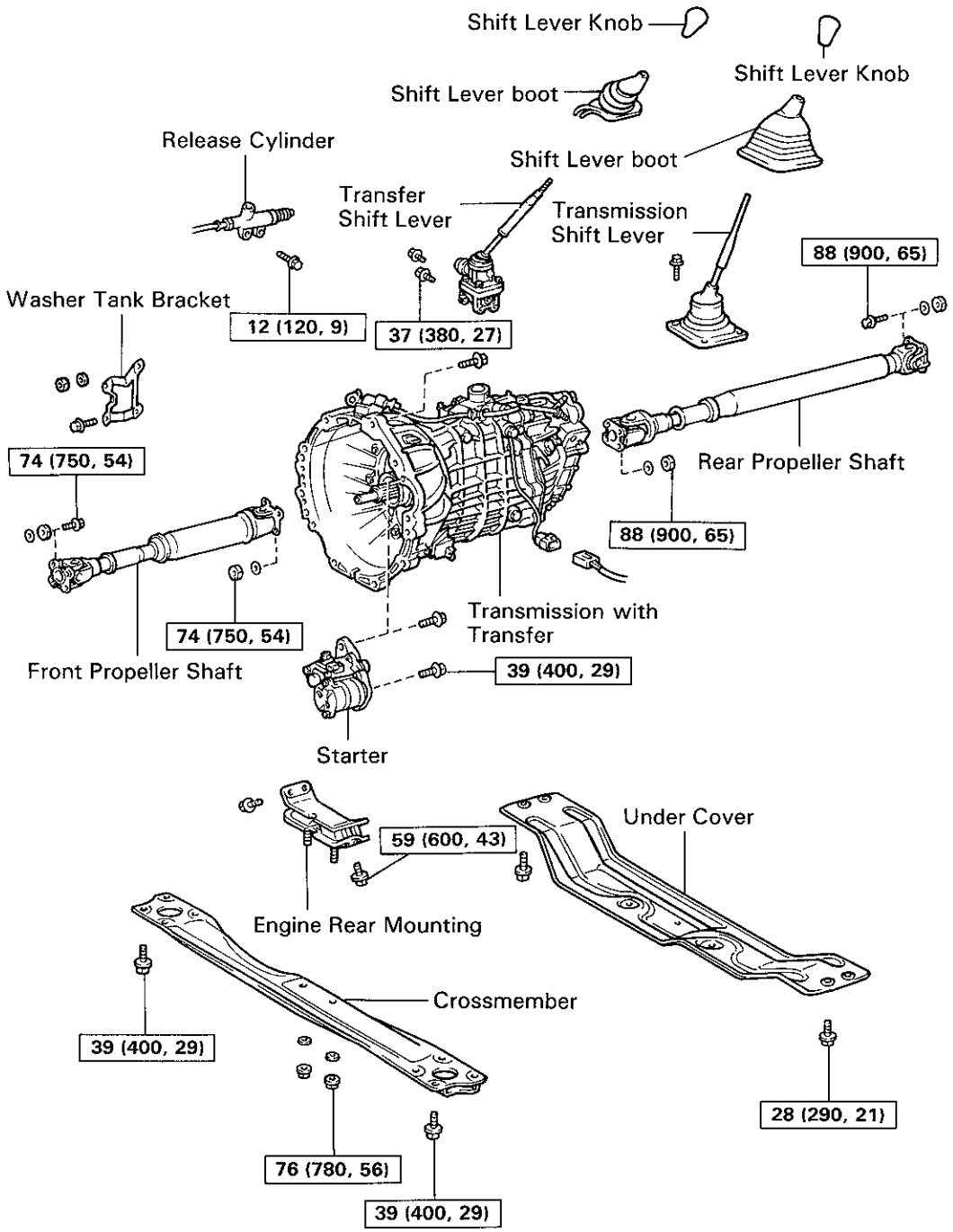
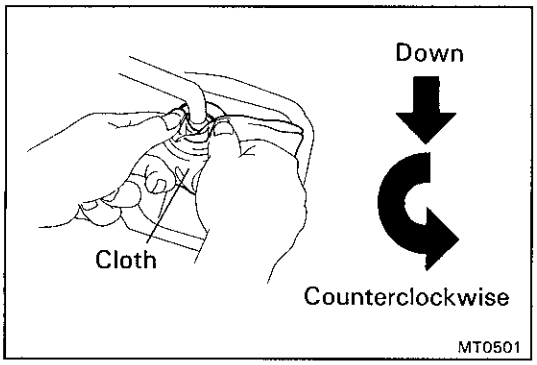
TRANSMISSION REMOVAL AND INSTALLATION

COMPONENTS



Q03129

N·m (kgf·cm, ft·lbf) : Specified torque



TRANSMISSION REMOVAL

1. **DISCONNECT BATTERY CABLE FROM NEGATIVE TERMINAL**

2. **REMOVE TRANSMISSION SHIFT LEVER FROM INSIDE OF VEHICLE**

(a) Remove the transmission shift lever knob.

(b) Remove the four screws and remove the shift lever boot retainer.

(c) Pull up the shift lever boot.

(d) Cover the shift lever cap with cloth.

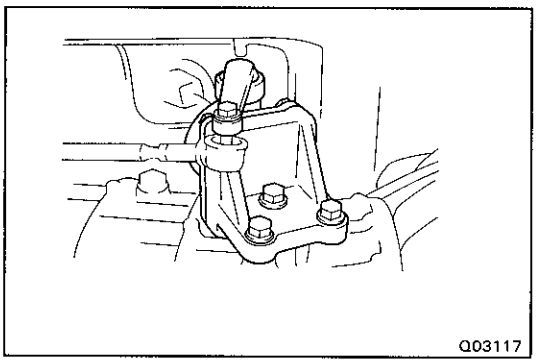
(e) Then, pressing down on the shift lever cap, rotate it countercrockwise to remove.

(f) Remove the shift lever.

3. **REMOVE TRANSFER SHIFT LEVER**

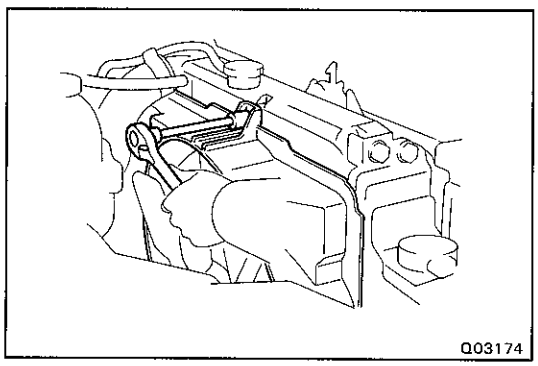
(a) Remove the transfer shift lever knob.

(b) Remove the four screws and remove the boot.



(c) Remove the nut and washer and the link.

(d) Remove the three bolts and the transfer shift lever.

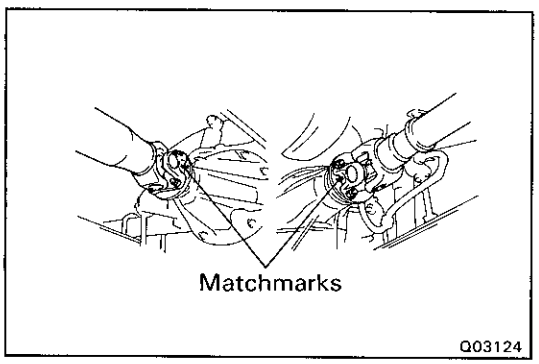


4. **LOOSEN FAN SHROUD OF COOLING FAN TO AVOID DAMAGE TO FAN**

5. **RAISE VEHICLE AND DRAIN TRANSMISSION OIL**

NOTICE: Be sure the vehicle is securely supported.

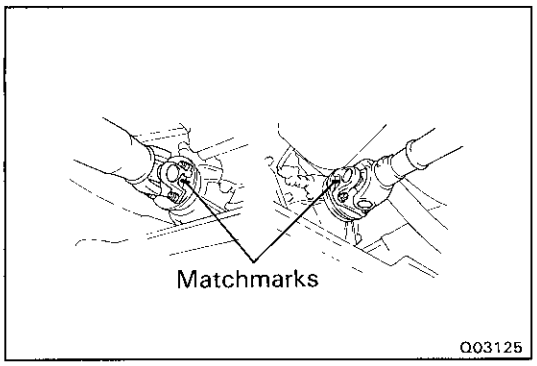
6. **REMOVE TRANSFER UNDER COVER**



7. **DISCONNECT FRONT AND REAR PROPELLER SHAFT FLANGES FROM COMPANION FLANGE ON DIFFERENTIAL**

(a) Put matchmarks on the flanges.

(b) Remove the four bolts and nuts.

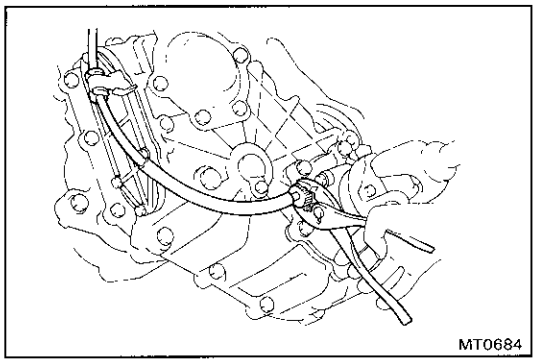


8. DISCONNECT FRONT AND REAR PROPELLER SHAFT FLANGES FROM COMPANION FLANGE ON TRANSFER

(a) Put matchmarks on the flange.

(b) Remove the four nuts.

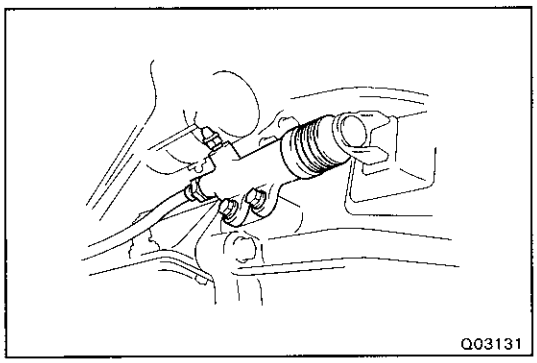
(c) Remove the propeller shaft.



9. REMOVE SPEEDOMETER CABLE

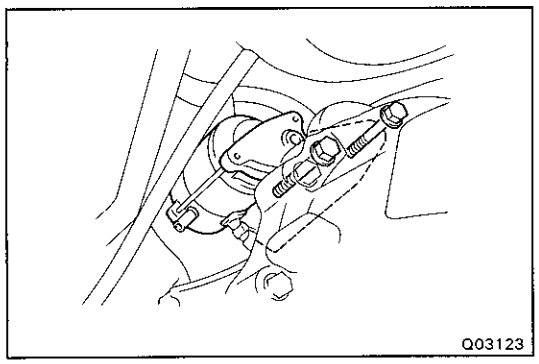
Using pliers, remove the speedometer cable.

10. DISCONNECT BACK-UP LIGHT SWITCH CONNECTOR



11. REMOVE CLUTCH RELEASE CYLINDER

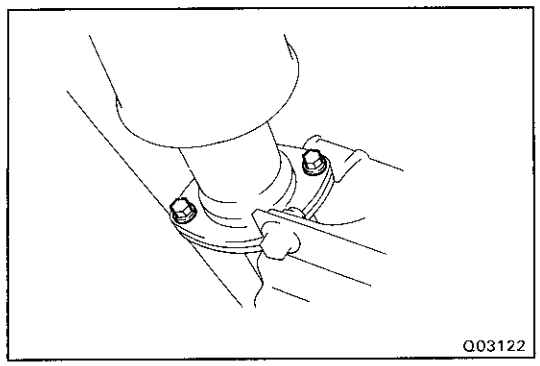
Remove the two bolts and release cylinder.



12. REMOVE STARTER

(a) Disconnect the connector and wire from the starter.

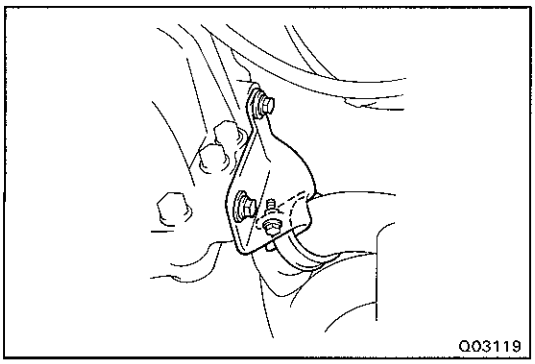
(b) Remove the two bolts and starter.



13. REMOVE FRONT EXHAUST PIPE

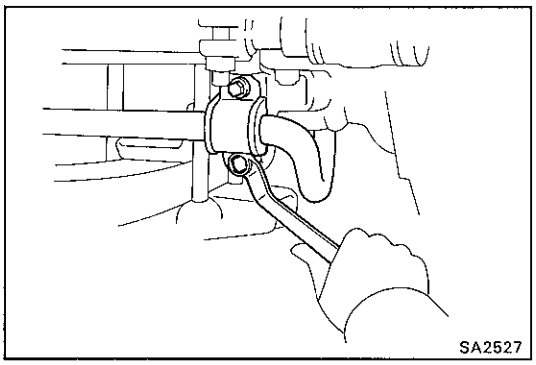
(a) Disconnect the oxygen sensor connector.

(b) Remove the two bolts, bracket and a gasket.



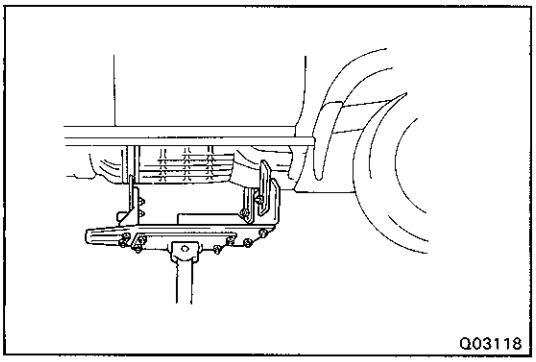
(c) Remove the exhaust pipe clamp from the bracket.

(d) Remove the two bolts and exhaust pipe bracket from the clutch housing.



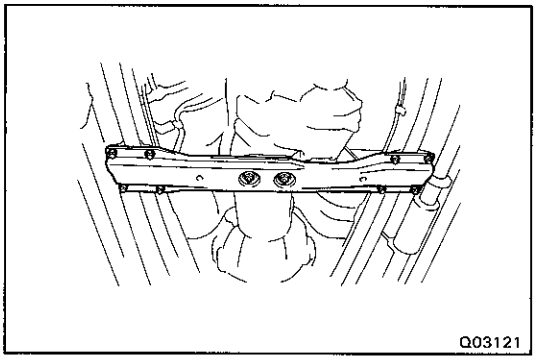
14. REMOVE STABILIZER BRAKET SET BOLTS

Remove four stabilizer bracket set bolts.



15. SUPPORT TRANSMISSION

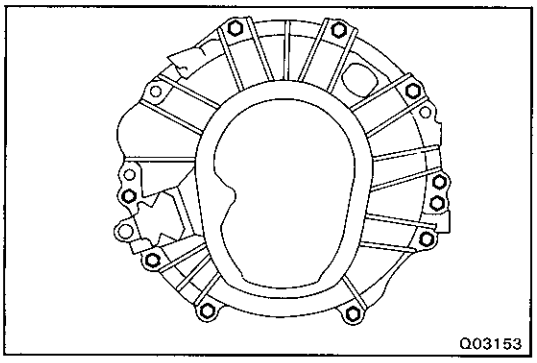
Remove the transmission enough to remove the weight from the rear support.



16. REMOVE CROSSMEMBER

(a) Raise the transmission slightly with a jack.

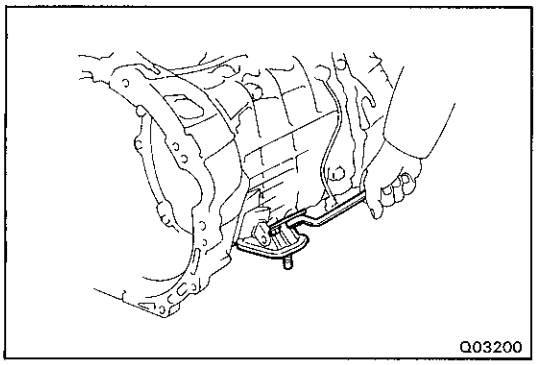
(b) Remove the eight bolts, two nuts and crossmember.



17. REMOVE TRANSMISSION

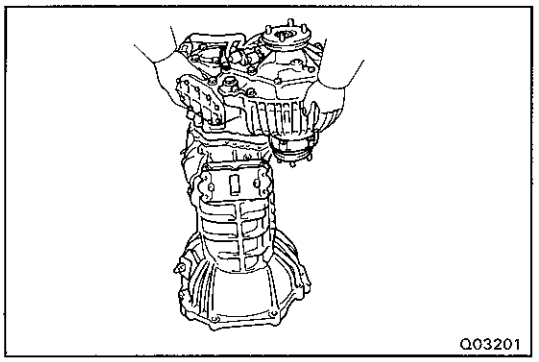
(a) Remove the transmission mounting bolts from the engine.

(b) Pull out the transmission down and toward the rear.



18. REMOVE ENGINE REAR MOUNTING

Remove the four bolts and engine rear mounting from the transmission.

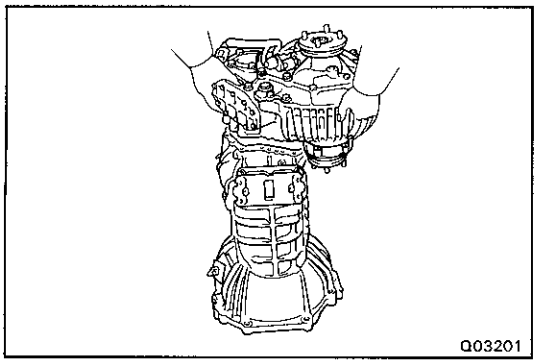


19. REMOVE TRANSFER FROM TRANSMISSION

(a) Remove the transfer adaptor rear mounting bolts.

(b) Pull the transfer straight up and remove it from the transmission.

HINT: Take care not to damage the adaptor rear oil seal with the transfer input gear spline.


Q03201

TRANSMISSION INSTALLATION (See page MT-4)

1. INSTALL TRANSFER TO TRANSMISSION

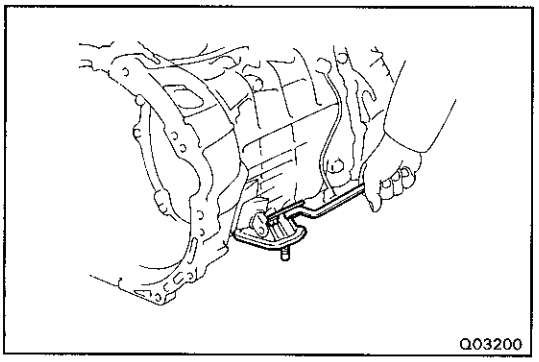
(a) Apply MP grease to the adaptor oil seal.

(b) Install the transfer to the transmission.

HINT: Take care not to damage the oil seal by the input gear spline when installing the transfer.

(c) Install and torque the bolts.

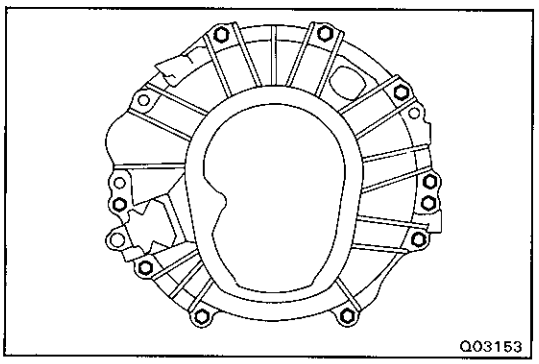
Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)


Q03200

2. INSTALL ENGINE REAR MOUNTING

Install the engine rear mounting and torque the four bolts.

Torque: 59 N·m (600 kgf·cm, 43 ft·lbf)

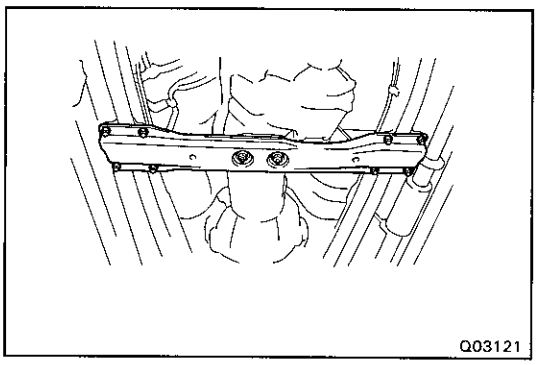

Q03153

3. INSTALL TRANSMISSION TO ENGINE

(a) Align the input shaft spline with the clutch disc and install the transmission to the engine.

(b) Install and torque the ten bolts.

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


Q03121

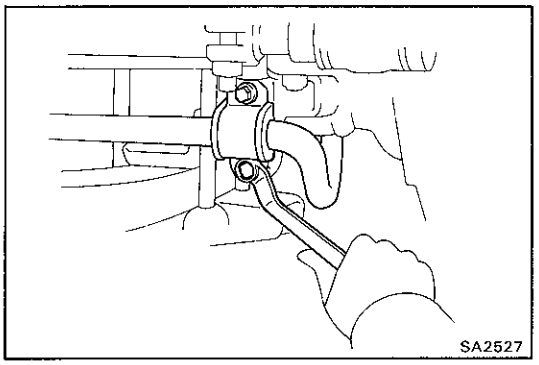
4. INSTALL CROSSMEMBER

(a) Raise the transmission slightly with a jack.

(b) Install the crossmember with eight bolts and two nuts.

Torque: BOLT 39 N·m (400 kgf·cm, 29 ft·lbf)
NUT 76 N·m (780 kgf·cm, 56 ft·lbf)

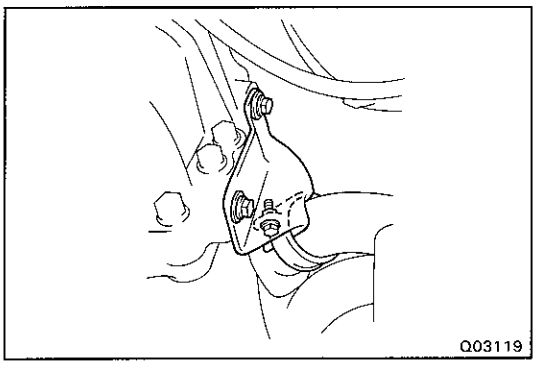
(c) Remove the jack.



5. INSTALL STABILIZER BRACKET SET BOLTS

Install the stabirizer bracket with four bolts.

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



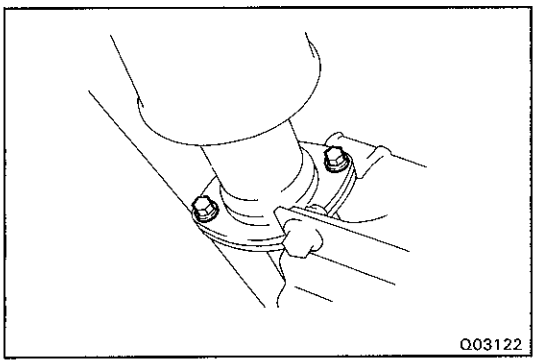
6. INSTALL FRONT EXHAUST PIPE

(a) Install the exhaust pipe bracket and two bolts to the clutch housing.

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

(b) Install the exhaust pipe clamp.

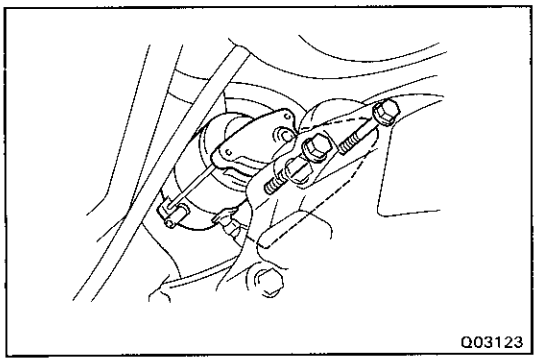
Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)



(c) Install a new gasket, bracket and torque the two bolts.

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

(d) Connect the oxygen sensor connector.

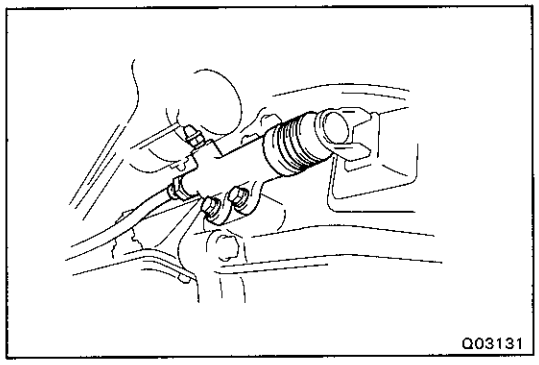


7. INSTALL STARTER

(a) Install the starter with two bolts.

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

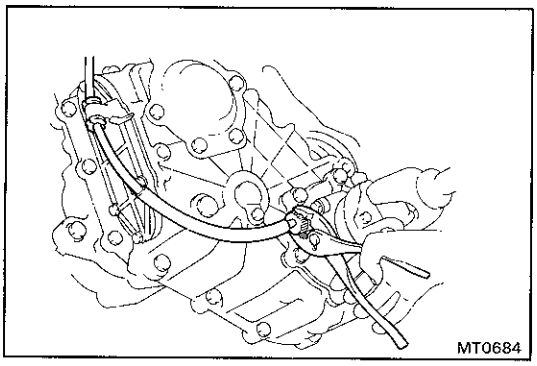
(b) Connect the connector and wire to the starter.



8. INSTALL CLUTCH RELEASE CYLINDER

Install the clutch release cylinder with two bolts.

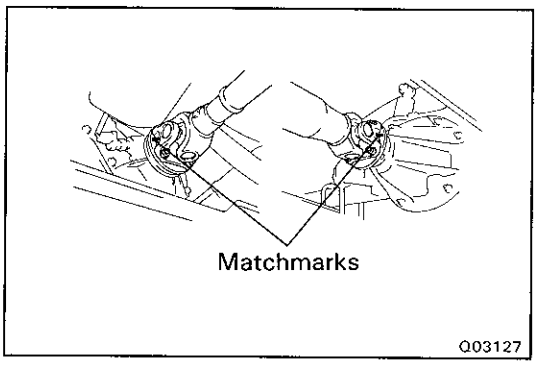
Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)



9. INSTALL SPEEDOMETER CABLE

Using pliers, install the speedometer cable.

10. CONNECT BACK-UP LIGHT SWITCH CONNECTOR



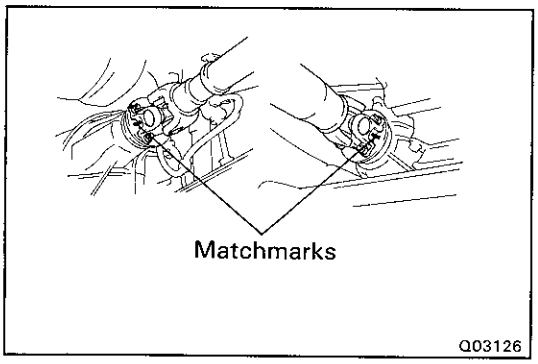
11. CONNECT PROPELLER SHAFT FLANGE TO COMPANION FLANGE ON TRANSFER

(a) Align the matchmarks on the flanges and connect the flanges with four nuts.

(b) Torque the nuts.

Torque:
Front Propeller Shaft
74 N·m (750 kgf·cm, 54 ft·lb)
Rear Propeller Shaft
88 N·m (900 kgf·cm, 65 ft·lb)

HINT: When installing the washers, put them properly in place.



12. CONNECT PROPELLER SHAFT FLANGE ON DIFFERENTIAL

(a) Align the matchmarks on the flanges and connect the flanges with four bolts and nuts.

(b) Torque the bolts and nuts.

Torque:
Front Propeller Shaft
74 N·m (750 kgf·cm, 54 ft·lb)
Rear Propeller Shaft
88 N·m (900 kgf·cm, 65 ft·lb)

HINT: When installing the washers, put them properly in place.

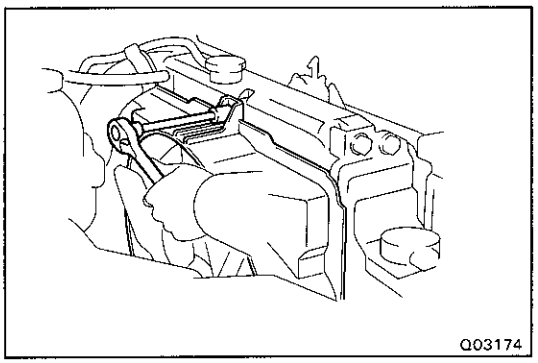
13. INSTALL TRANSFER UNDER COVER

14. FILL TRANSMISSION WITH GEAR OIL

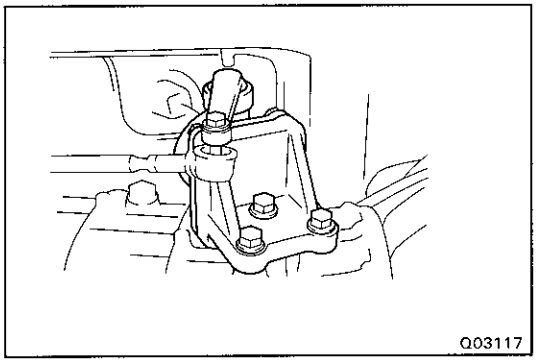
Oil grade:
API GL — 4 or GL — 5

Viscosity:
SAE 75W — 90

Capacity:
2.7 liters (2.6 US qts, 3.1 Imp.qts)

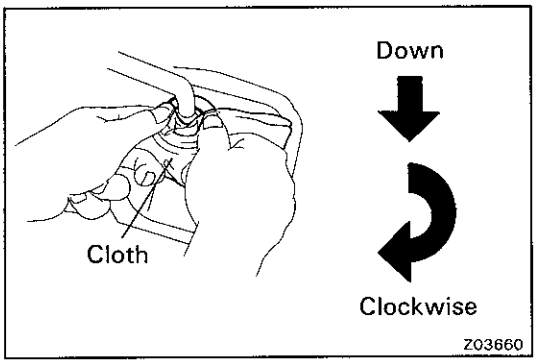


15. TIGHTEN FAN SHROUD



16. INSTALL TRANSFER SHIFT LEVER

(a) Install the link with the washer and nut.
(b) Install the transfer shift lever and the three bolts.
(c) Install the boot and four screws.
(d) Install the transfer shift lever knob.



17. INSTALL TRANSMISSION SHIFT LEVER

(a) Apply MP grease to the transmission shift lever.
(b) Align the groove of the shift lever cap and the pin part of the case cover.
(c) Cover the shift lever cap with a cloth.
(d) Then, pressing down on the shift lever cap, rotate it clockwise to install.
(e) Install the shift lever boot.
(f) Install the transmission shift lever knob.

18. INSTALL NEGATIVE BATTERY CABLE

19. PERFORM ROAD TEST

Check for abnormal noise and smooth shifting.