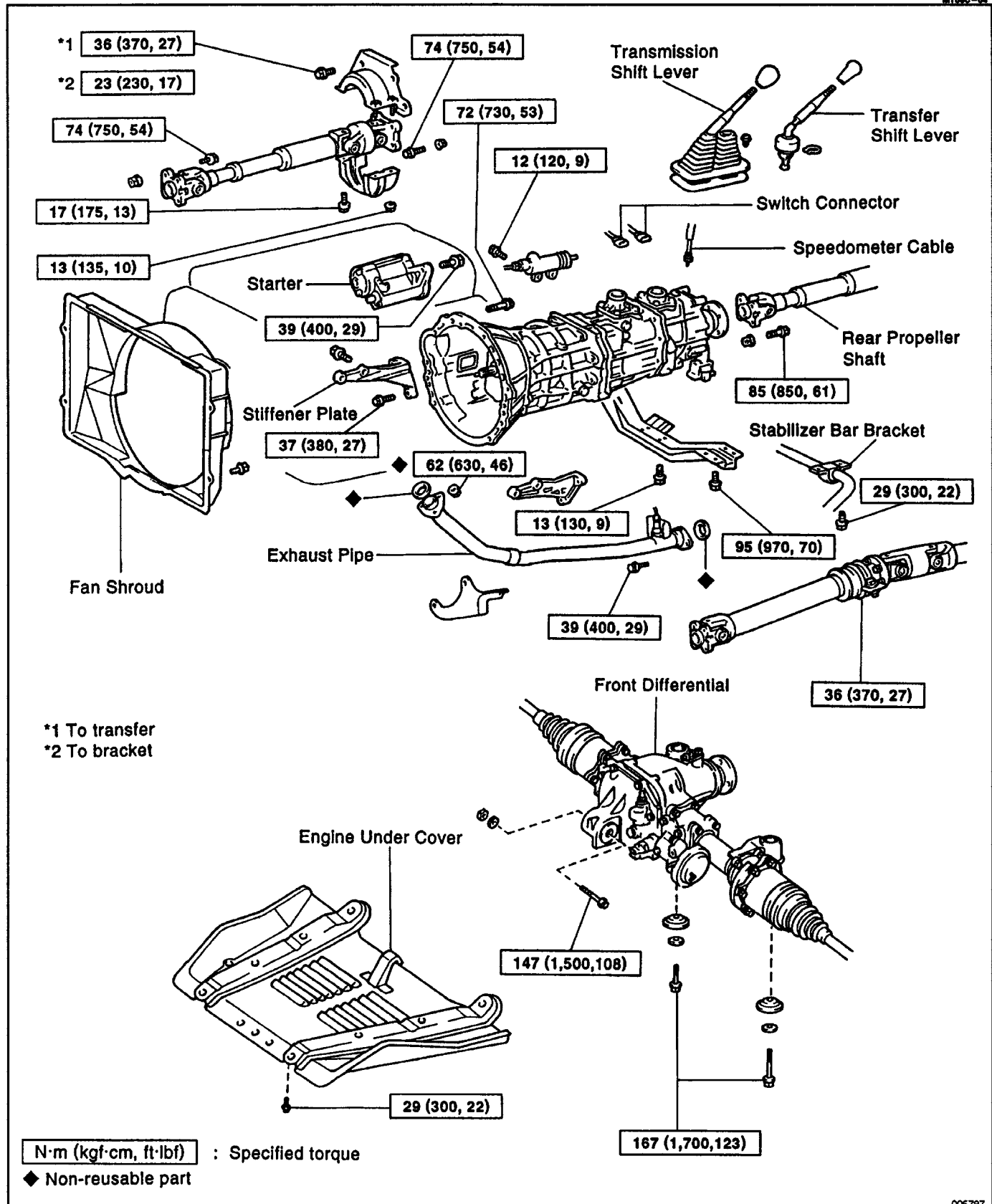
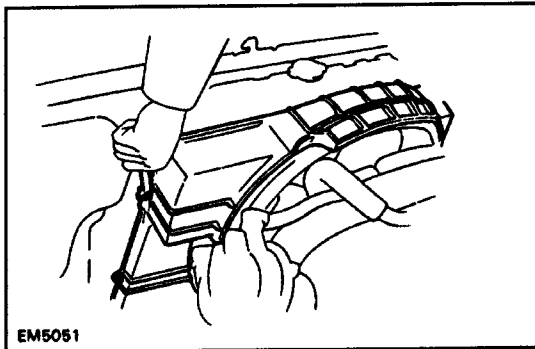


ASSEMBLY REMOVAL AND INSTALLATION

MT09C-04



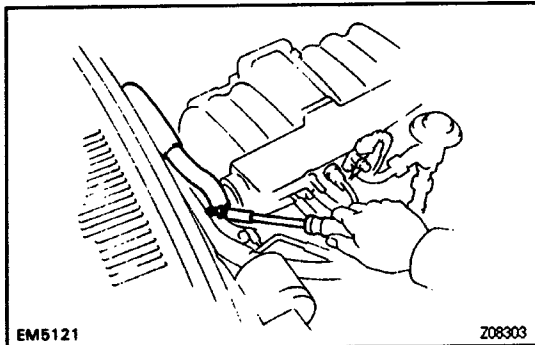


TRANSMISSION REMOVAL

1. DISCONNECT NEGATIVE(-) TERMINAL CABLE FROM BATTERY

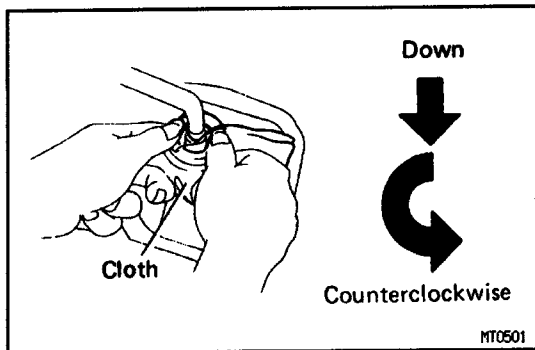
2. REMOVE FAN SHROUD SET BOLTS

Remove the 4 bolts.



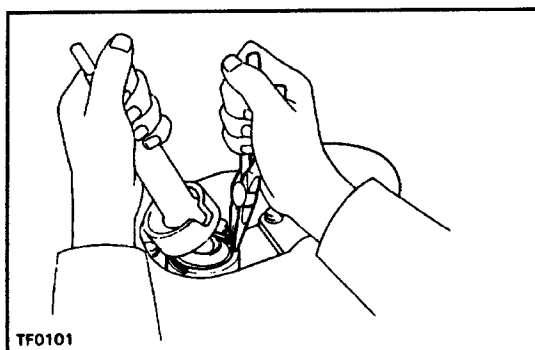
3. REMOVE HEATER HOSE CLAMP

- (a) Loosen the clamp bolt.
- (b) Move the clamp upside.



4. REMOVE TRANSMISSION SHIFT LEVER FROM INSIDE OF VEHICLE

- (a) Remove the 4 screws and shift lever boot retainer.
- (b) Pull up the shift lever boot.
- (c) Cover the shift lever cap with a cloth.
- (d) Then, pressing down on the shift lever cap, rotate it counterclockwise to remove.
- (e) Remove the shift lever.

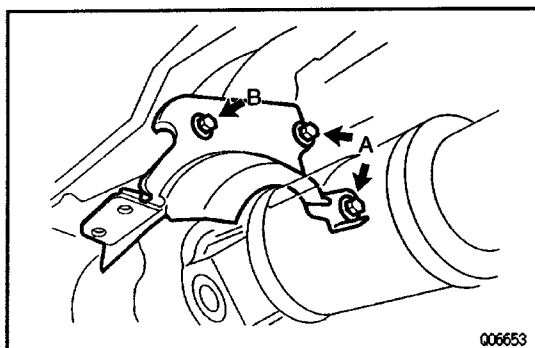


5. REMOVE TRANSFER SHIFT LEVER FROM INSIDE OF VEHICLE

Using pliers, remove the snap ring and pull out the shift lever from the transfer.

6. RAISE VEHICLE AND DRAIN TRANSMISSION AND TRANSFER OIL

NOTICE: Be sure the vehicle is securely supported.

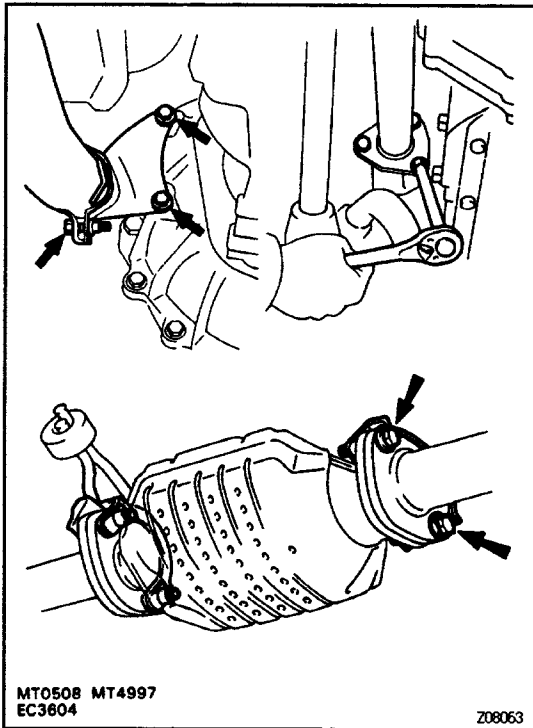


7. REMOVE PROPELLER SHAFT DUST COVER SUB-ASSEMBLY

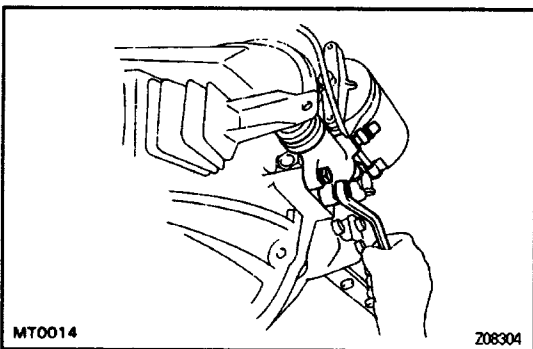
Remove the 3 bolts and cover.

8. DISCONNECT FRONT AND REAR PROPELLER SHAFT

(See page [PR-7](#))

9. DISCONNECT, SPEEDOMETER CABLE, BACK-UP LIGHT SWITCH CONNECTOR AND TRANSFER INDICATOR SWITCH CONNECTOR**10. REMOVE EXHAUST PIPE, BRACKET AND CLAMP**

- (a) Remove the exhaust pipe clamp.
- (b) Remove the 2 bolts and exhaust pipe bracket from the clutch housing.
- (c) Remove the 3 nuts, exhaust pipe and gasket from the exhaust manifold.
- (d) Remove the 2 bolts and gasket, disconnect the exhaust pipe from the catalytic converter front side.

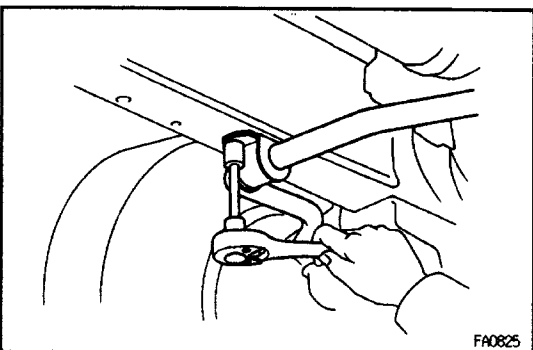
**11. REMOVE CLUTCH RELEASE CYLINDER**

Remove the 2 bolts and lay the release cylinder alongside the engine.

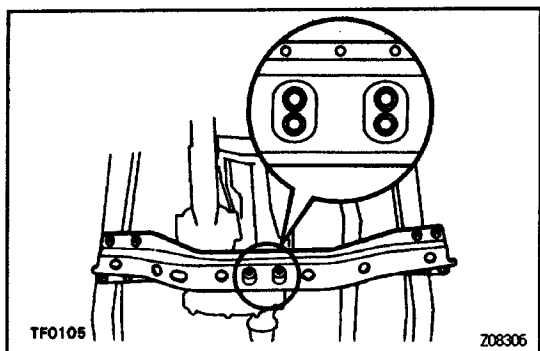
HINT: Do not disconnect the clutch line.

12. REMOVE FRONT DIFFERENTIAL SET BOLTS

- (a) Remove the 3 bolts.
- (b) Support the front differential.

**13. REMOVE STABILIZER BAR BRACKET SET BOLTS**

Remove the 4 bolts.

**14. REMOVE NO. 2 FRAME CROSSMEMBER FROM SIDE FRAME**

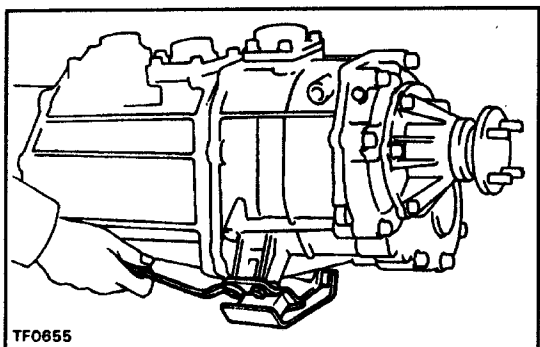
- (a) Remove the 4 bolts from the engine rear mounting.
- (b) Using a transmission jack, support the transmission.
- (c) Remove the 8 bolts and No. 2 frame crossmember from the side frame.

15. LOWER TRANSMISSION WITH TRANSFER**16. REMOVE STARTER**

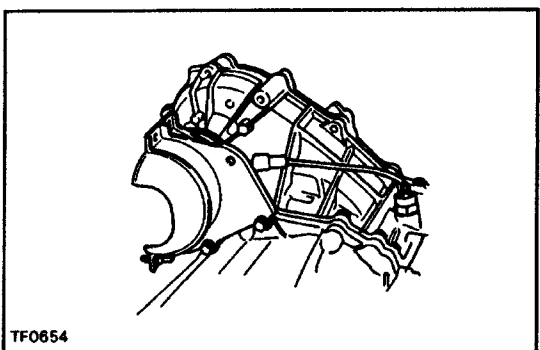
- (a) Remove the 2 bolts and starter.
- (b) Lay the starter alongside the engine.

17. REMOVE EXHAUST PIPE BRACKET AND STIFFENER PLATE BOLTS**18. REMOVE REMAINING TRANSMISSION BOLTS****19. REMOVE TRANSMISSION WITH TRANSFER**

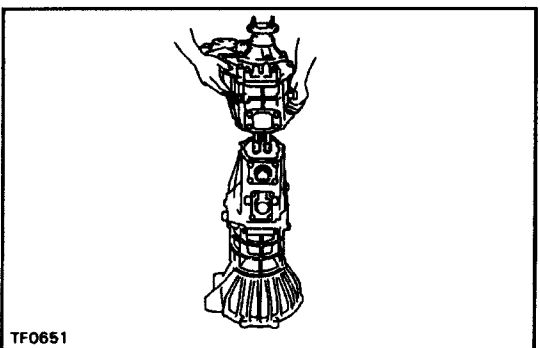
Remove the transmission with the transfer toward the rear of the vehicle.

**20. REMOVE ENGINE REAR MOUNTING**

Remove the 4 bolts and engine rear mounting from the transfer.

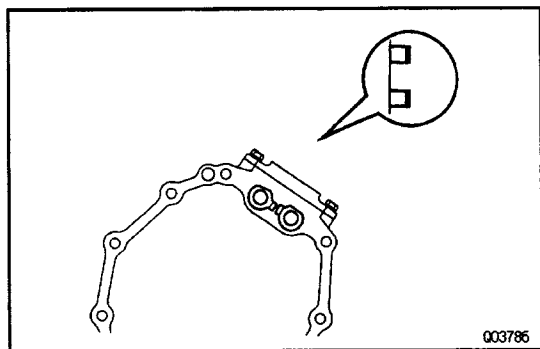
**21. REMOVE PROPELLER SHAFT UPPER DUST COVER AND TRANSFER FROM TRANSMISSION**

- (a) Remove the dust cover bolt from the bracket.
- (b) Remove the transfer adaptor rear mounting bolts.



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

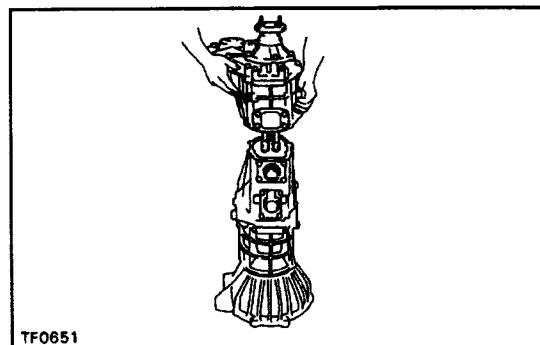
HINT: Take care not to damage the adaptor rear oil seal with the transfer input gear spline.



TRANSMISSION INSTALLATION

1. INSTALL TRANSFER AND PROPELLER SHAFT UPPER DUST COVER TO TRANSMISSION WITH NEW GASKET

(a) Shift the 2 shift fork shafts to the high-4 position.

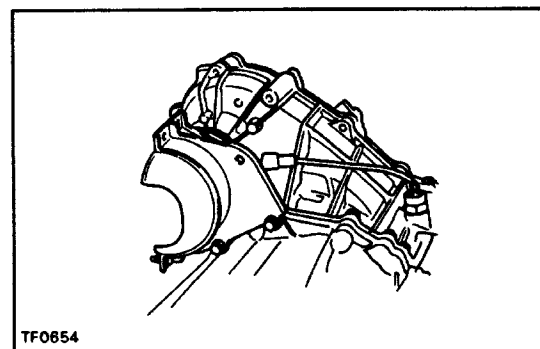


(b) Apply MP grease to the adaptor oil seal.

(c) Place a new gasket to the transfer adaptor.

(d) Install the transfer to the transmission.

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

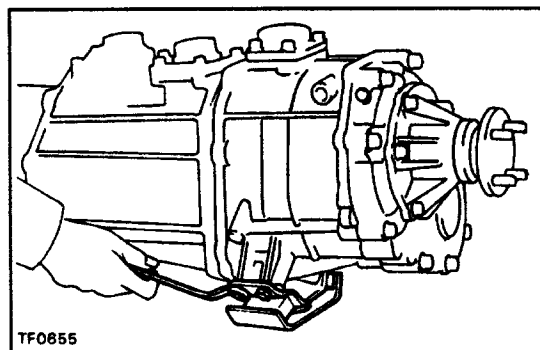


(e) Install and torque the bolts with the propeller shaft upper dust cover.

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

(f) Install the dust cover bolt to the bracket.

Torque: 23 N-m (230 kgf-cm, 17 ft-lbf)



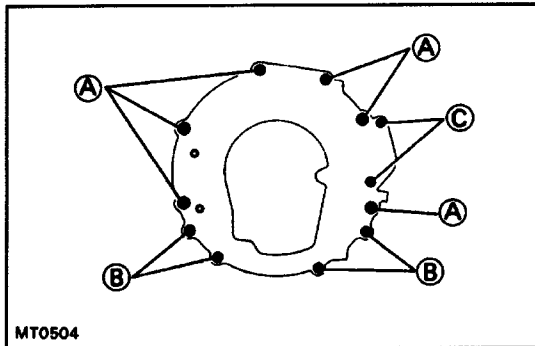
2. INSTALL ENGINE REAR MOUNTING

Install the engine rear mounting and torque the 4 bolts.

Torque: 25 N-m (260 kgf-cm, 19 ft-lbf)

3. PLACE TRANSMISSION WITH TRANSFER AT INSTALLATION POSITION

- (a) Support the transmission with a jack.
- (b) Align the input shaft spline with the clutch disc, and push the transmission with the transfer fully into position.



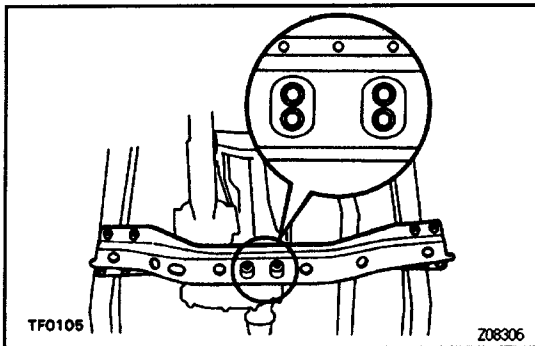
4. INSTALL TRANSMISSION, STIFFENER AND STARTER BOLTS

Torque:

- (A) Transmission bolt:
72 N-m (730 kgf-cm, 53 ft-lbf)
- (B) Stiffener plate bolt:
37 N-m (380 kgf-cm, 27 ft-lbf)
- (C) Starter bolt:
39 N-m (400 kgf-cm, 29 ft-lbf)

5. INSTALL NO. 2 FRAME CROSSMEMBER

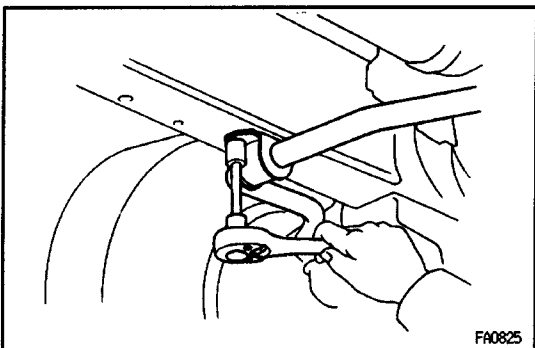
- (a) Raise the transmission slightly with a jack.
- (b) Install the No. 2 frame crossmember to the side frame and torque the 8 bolts.
Torque: 95 N-m (970 kgf-cm, 70 ft-lbf)
- (c) Lower the transmission and transfer.
- (d) Install the 4 mounting bolts to the engine rear mounting. Torque the bolts.
Torque: 13 N-m (130 kgf-cm, 9 ft-lbf)



6. INSTALL STABILIZER BAR BRACKET SET BOLTS

Install and torque the 4 bolts.

Torque: 29 N-m (300 kgf-cm, 22 ft-lbf)



7. INSTALL FRONT DIFFERENTIAL ASSEMBLY

Install and torque the 3 bolts.

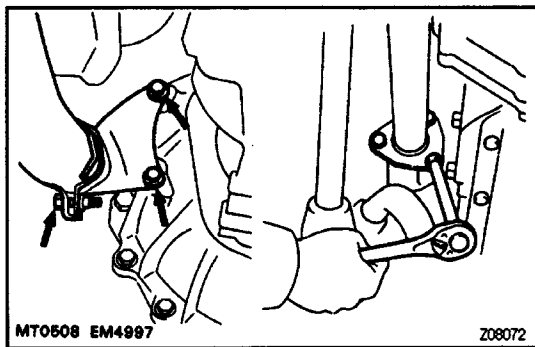
Torque:

Differential carrier cover to frame:

147 N-m (1,500 kgf-cm, 108 ft-lbf)

Others:

167 N-m (1,700 kgf-cm, 123 ft-lbf)



8. INSTALL EXHAUST PIPE, BRACKET AND CLAMP

(a) Install a new gasket and the exhaust pipe to the manifold. Torque 3 new nuts.

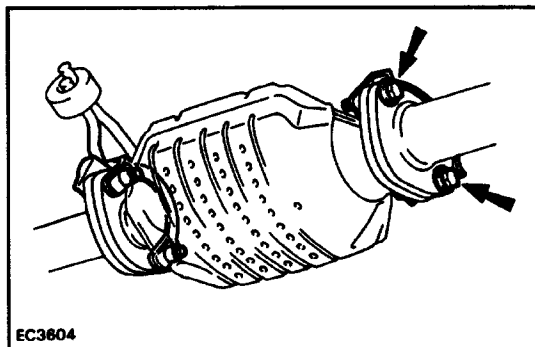
Torque: 62 N-m (630 kgf-cm, 46 ft-lbf)

(b) Install the exhaust pipe bracket to the clutch housing and torque the 2 bolts.

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

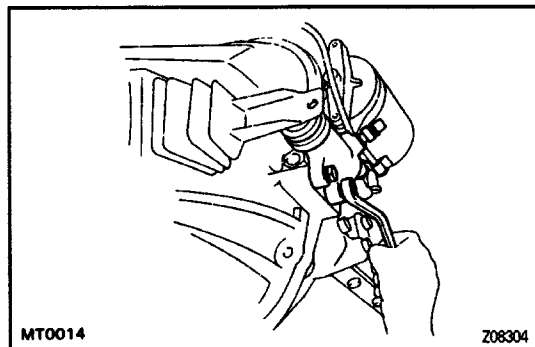
(c) Install the exhaust pipe clamp.

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



(d) Install the exhaust pipe and a new gasket to the catalytic converter front side. Torque the 2 bolts.

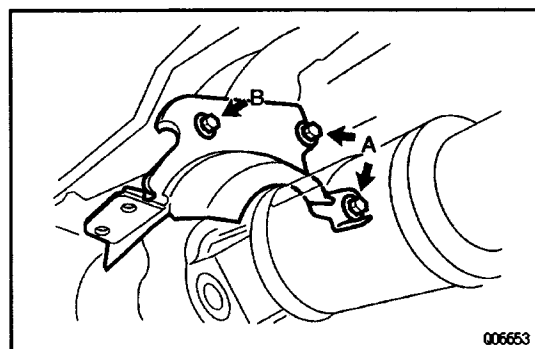
Torque: 39 N-m (400 kgf-cm, 29 ft-lbf)



9. INSTALL CLUTCH RELEASE CYLINDER

Install the clutch release cylinder and torque the 2 bolts.

Torque: 12 N-m (20 kgf-cm, 9 ft-lbf)



10. INSTALL PROPELLER SHAFT DUST COVER SUB-ASSEMBLY

(a) Install the cover.

(b) Install and torque the 3 bolts.

Torque:

Bolt A: 36 N-m (370 kgf-cm, 27 ft-lbf)

Bolt B: 23 N-m (230 kgf-cm, 17 ft-lbf)

11. CONNECT SPEEDOMETER CABLE, BACK – UP LIGHT SWITCH CONNECTOR AND TRANSFER INDICATOR SWITCH CONNECTOR

12. CONNECT FRONT AND REAR PROPELLER SHAFT (See page [PR-16](#))

13. FILL TRANSMISSION WITH GEAR OIL

Oil grade:

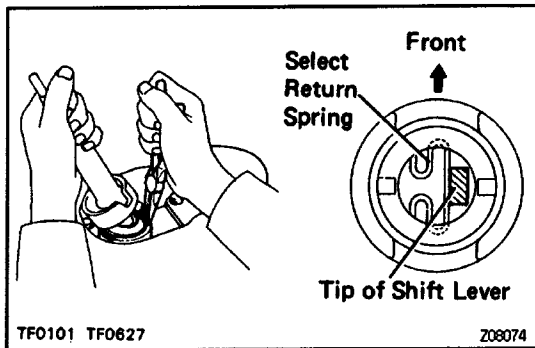
API GL-3, GL-4 or GL-5

Viscosity:

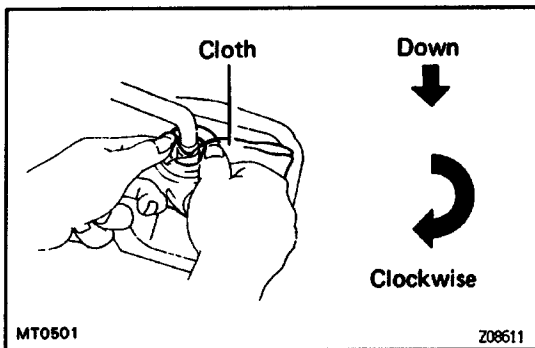
SAE 75W-90

Capacity:

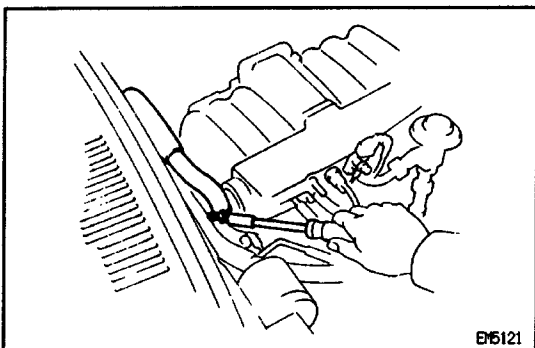
2.2 liters (2.3 US qts, 1.9 Imp. qts)

14. LOWER VEHICLE**15. INSTALL TRANSFER SHIFT LEVER**

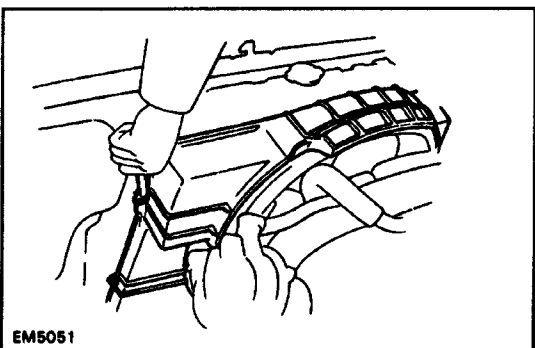
- (a) Apply MP grease to the transfer shift lever.
- (b) Install the shift lever, as shown.
- (c) Using pliers, install the snap ring.

**16. 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.

**17. INSTALL HEATER HOSE CLAMP**

- (a) Move the clamp to correct position.
- (b) Torque the clamp bolt.

**18. INSTALL FAN SHROUD SET BOLTS**

Install and torque the 4 bolts.

19. CONNECT NEGATIVE (-) TERMINAL CABLE TO BATTERY**20. PERFORM ROAD TEST**

Check for abnormal noises and smooth shifting.