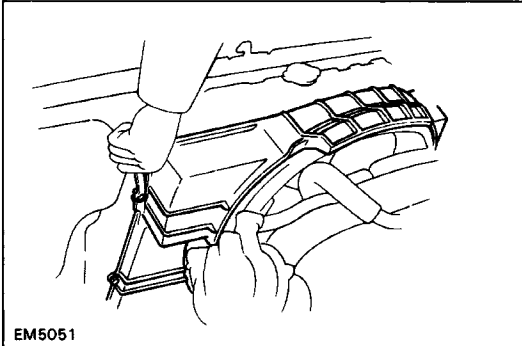


REMOVAL OF TRANSMISSION

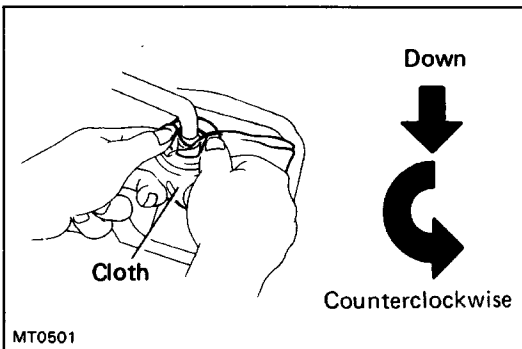
HINT: For the transmission with a transfer (4WD) refer to REMOVAL OF TRANSMISSION WITH TRANSFER on page MT1- 16.

1. DISCONNECT BATTERY CABLE FROM NEGATIVE TERMINAL



2. REMOVE FAN SHROUD SET BOLTS

Remove the four bolts.



3. REMOVE TRANSMISSION SHIFT LEVER FROM INSIDE OF VEHICLE

- Remove the four screw and remove the shift lever boot retainer.
- Pull up the shift lever boot.
- Cover the shift lever cap with cloth.
- Then, pressing down on the shift lever cap, rotate it counterclockwise to remove.
- Remove the shift lever.

4. RAISE VEHICLE AND DRAIN TRANSMISSION OIL

NOTICE: Be sure the vehicle is securely supported.

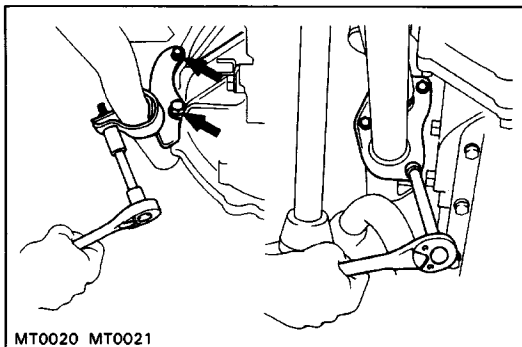
5. DISCONNECT PROPELLER SHAFT

(SEE [PR-5](#))

SST 09325-20010 (22R-E)

09325-40010 (3V Z-E)

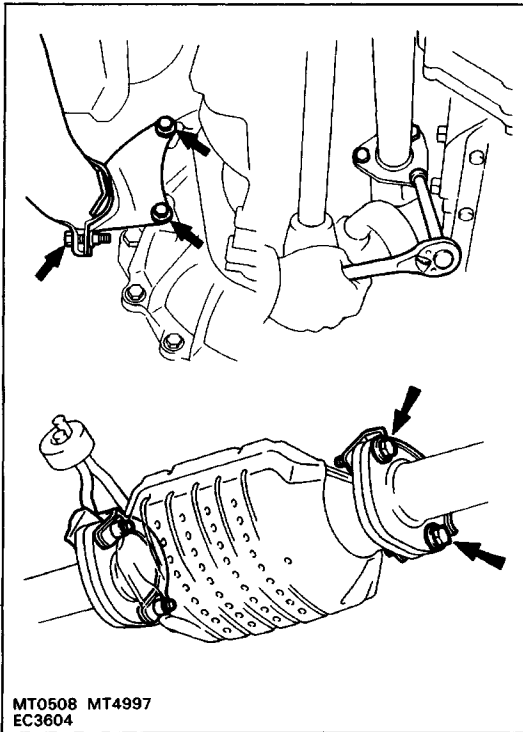
6. DISCONNECT SPEEDOMETER CABLE AND BACK-UP LIGHT SWITCH CONNECTOR



7.-1 (22R-E)

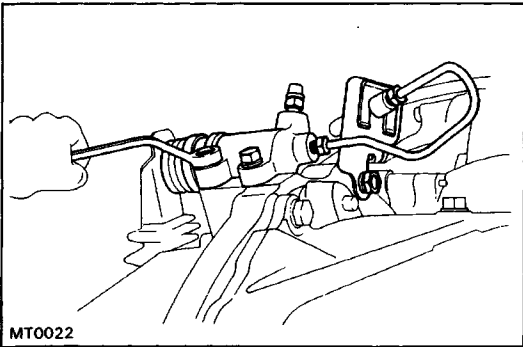
REMOVE EXHAUST PIPE CLAMP AND EXHAUST PIPE

- Remove the exhaust pipe clamp from the bracket.
- Remove the exhaust pipe from the manifold.
- Remove the pipe clamp bracket from clutch housing.

**7.-2 (3VZ-E)****REMOVE EXHAUST PIPE CLAMP AND EXHAUST PIPE**

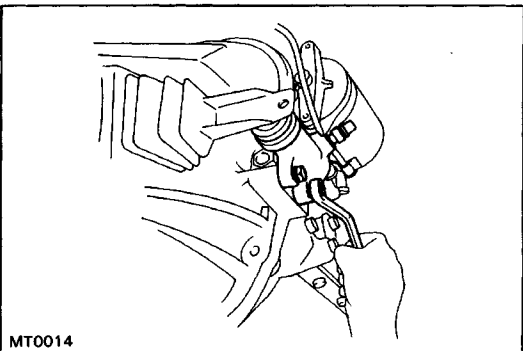
- (a) Remove the exhaust pipe clamp from the bracket.
- (b) Remove the exhaust pipe bracket from the clutch housing.
- (c) Remove the exhaust pipe from the manifold.

- (d) Disconnect exhaust pipe from catalytic converter front side.

**8.-1 (22R-E)****REMOVE CLUTCH RELEASE CYLINDER, TUBE BRACKET AND STARTER LOWER MOUNTING BOLT**

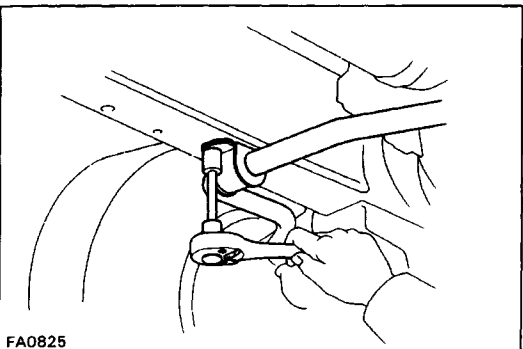
Lay the release cylinder and tube bracket alongside the engine.

HINT: Do not disconnect the clutch line.

**8.-2 (3VZ-E)****REMOVE CLUTCH RELEASE CYLINDER**

Lay the release cylinder alongside engine.

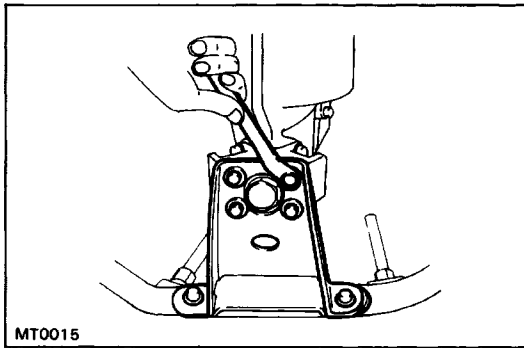
HINT: Do not disconnect the clutch line.

**9. REMOVE STABILIZER BRACKET SET BOLTS**

Remove the four bolts.

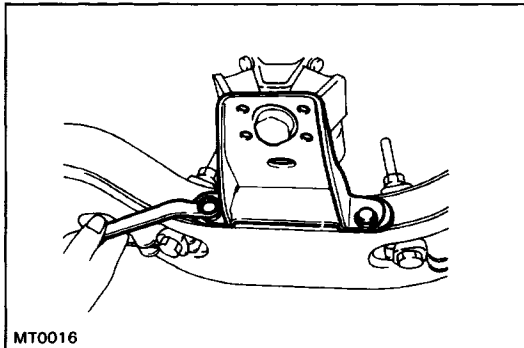
10. REMOVE FRAME AUXILIARY CROSSMEMBER

Remove the four bolts.

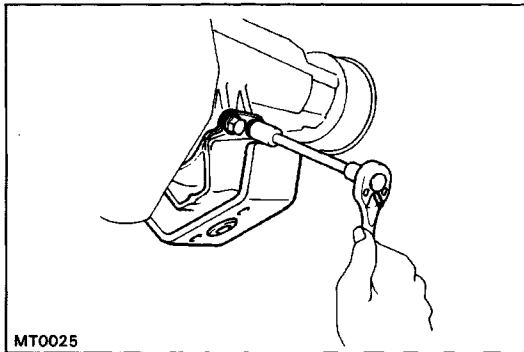


11. REMOVE ENGINE REAR MOUNTING AND BRACKET

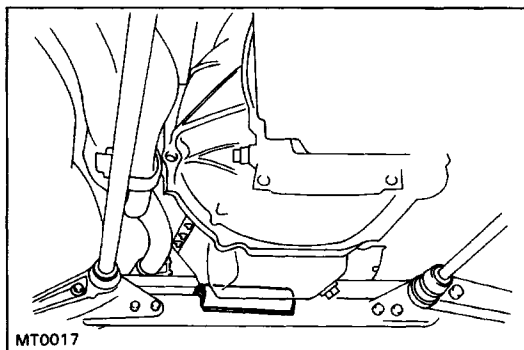
- (a) Remove the four bolts from the engine rear mounting.
- (b) Raise the transmission slightly by raising the engine with a jack.



- (c) Remove the four bolts from the support member and remove the mounting bracket.



- (d) Remove the engine rear mounting from the transmission.



12. PLACE PIECE OF WOOD BETWEEN ENGINE OIL PAN AND FRONT CROSSMEMBER

HINT: Tape a piece of wood or such about 20 mm (0.79 in.) thick on the front crossmember.

13. LOWER TRANSMISSION

14. REMOVE STARTER

Lay the starter alongside the engine.

15. REMOVE STIFFENER PLATE BOLTS

16. REMOVE REMAINING TRANSMISSION BOLTS

17. REMOVE TRANSMISSION

- (a) Draw out the transmission toward the rear.
- (b) Lower the transmission front and remove the transmission from the vehicle.

HINT: Be careful not to damage the extension housing dust deflector.

(3VZ-E/R 150 only)

- (a) Turn the transmission clockwise about 45 degrees.
- (b) Slide the transmission toward the rear.
- (c) Lower the transmission front and remove the transmission from the vehicle.