MANUAL TRANSMISSION UNIT (2WD w/ 2L, 3L, 5L)

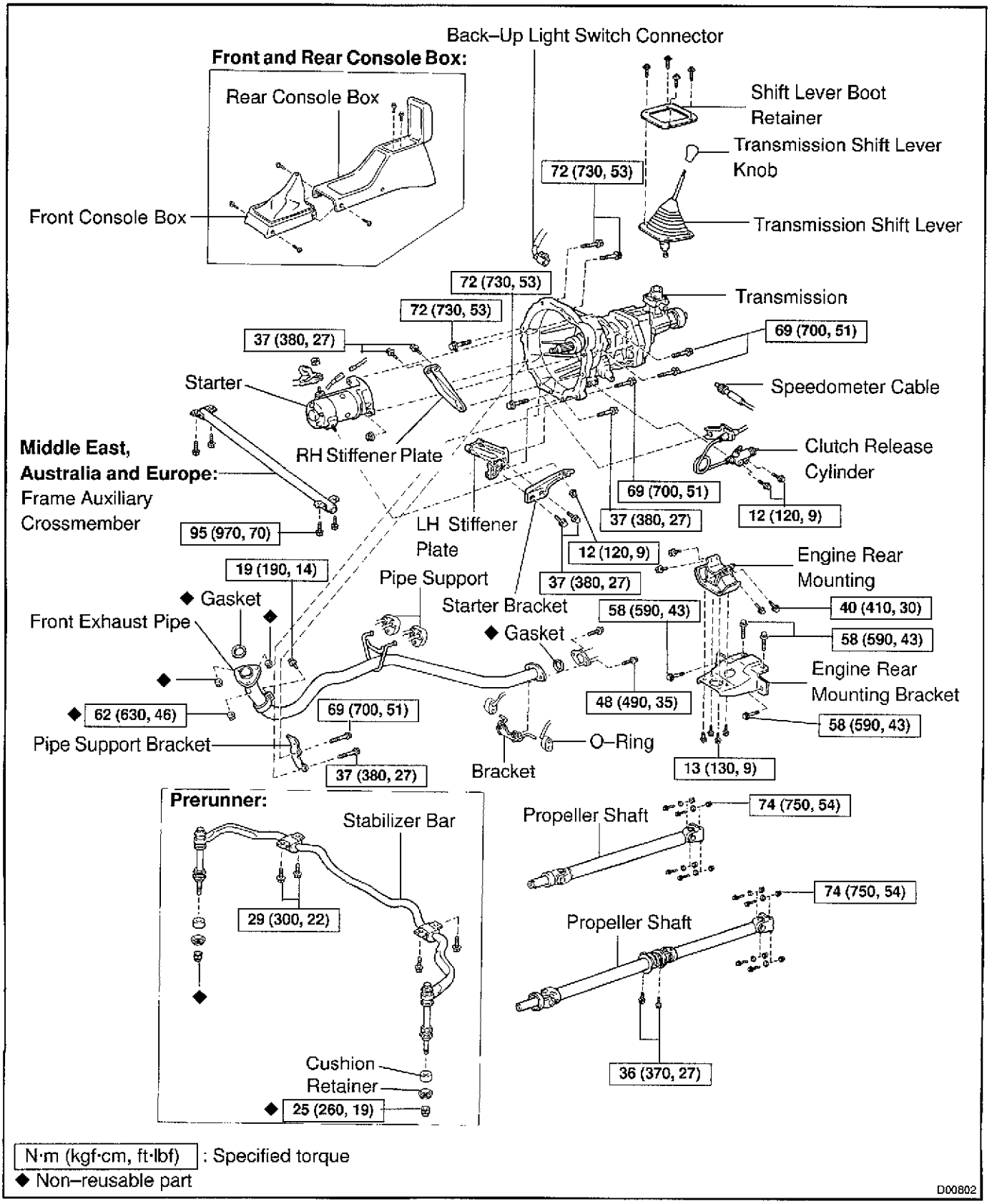
COMPONENTS

MT05W-01

HINT:

Prerunner is the model described below.

LN191L–PRMDS

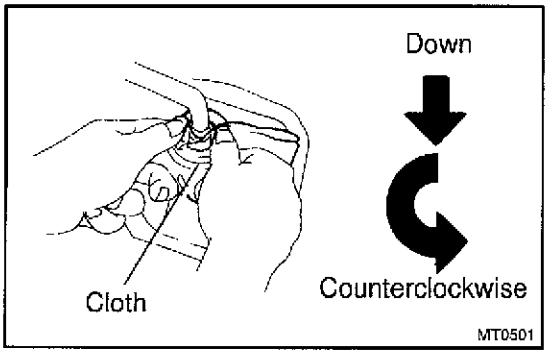


N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non–reusable part

D00802

MT05X–01



REMOVAL

1. REMOVE TRANSMISSION SHIFT LEVER

(a) w/ Front and Rear Console Boxes:
Remove the front and rear console boxes.
(See page BO–67)

(b) Remove the 4 screws and shift lever boot retainer.

(c) Cover the shift lever cap with a cloth.

(d) Pressing down on the shift lever cap and rotate it counterclockwise to remove.

(e) Pull out the shift lever.

HINT:

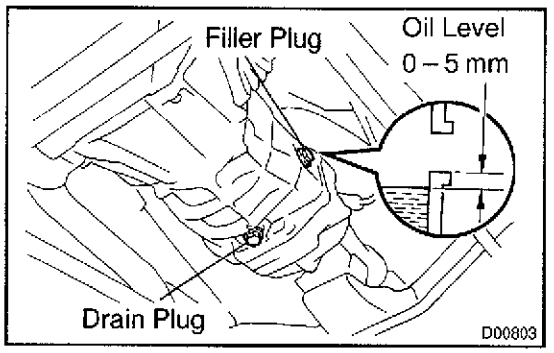
At the time of installation, please refer to the following item.

Apply MP grease to the tip of the shift lever.

2. Middle East, Australia and Europe:
REMOVE FRAME AUXILIARY CROSSMEMBER

Remove the 4 bolts and crossmember.

Torque: 95 N·m (970 kgf·cm, 70 ft·lbf)



3. RAISE VEHICLE AND DRAIN TRANSMISSION OIL
Oil grade: API GL–4 or GL–5
Viscosity: SAE 75W–90
Capacity: 2.2 liters (2.3 US qts, 1.9 Imp. qts)
Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)

4. Prerunner:
REMOVE STABILIZER BAR
(See page SA–160)

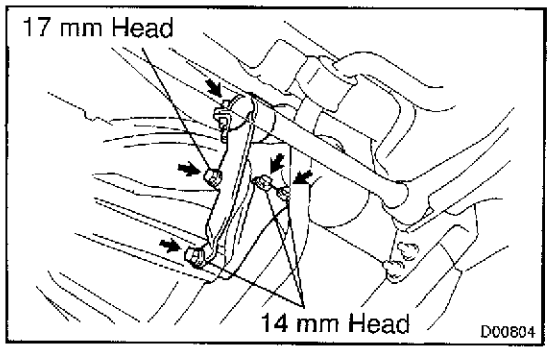
5. REMOVE PROPELLER SHAFT
(See page PR–2)

6. DISCONNECT CLUTCH RELEASE CYLINDER

Remove the 2 bolts and disconnect the release cylinder.

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)

7. DISCONNECT SPEEDOMETER CABLE AND BACK–UP LIGHT SWITCH CONNECTOR



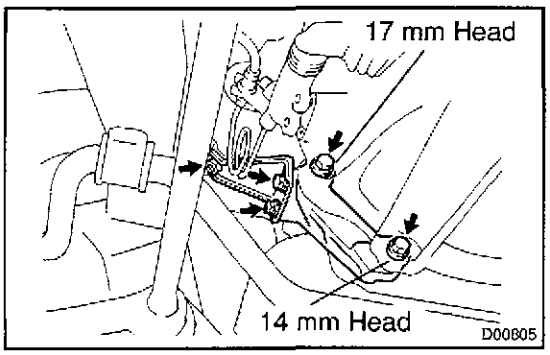
8. REMOVE FRONT EXHAUST PIPE

(a) Remove the set bolt of the clamp.
Torque: 19 N·m (190 kgf·cm, 14 ft·lbf)

(b) Remove the 4 bolts, RH stiffener plate and support bracket.
Torque:
17 mm head: 69 N·m (700 kgf·cm, 51 ft·lbf)
14 mm head: 37 N·m (380 kgf·cm, 27 ft·lbf)

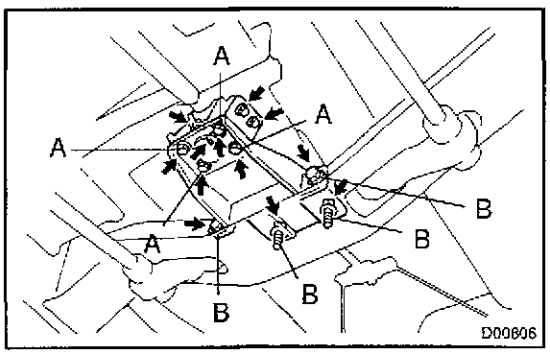
(c) Remove the 3 nuts and gasket from the exhaust manifold.
Torque: 62 N·m (630 kgf·cm, 46 ft·lbf)

(d) Disconnect the bracket from the O–ring.
(e) Remove the 2 bolts, bracket and gasket.
Torque: 48 N·m (490 kgf·cm, 35 ft·lbf)
(f) Disconnect the front exhaust pipe from the 2 pipe supports and remove it.



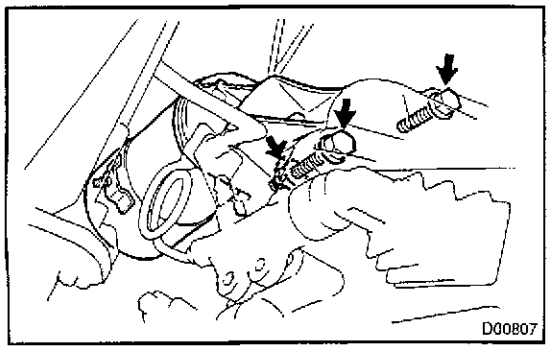
9. REMOVE LH STIFFENER PLATE AND STARTER BRACKET
(a) Remove the nut, 2 bolts and starter bracket.
Torque:
Bolt: 37 N·m (380 kgf·cm, 27 ft·lbf)
Nut: 12 N·m (120 kgf·cm, 9 ft·lbf)
(b) Remove the 2 bolts and LH stiffener plate.
Torque:
17 mm head: 69 N·m (700 kgf·cm, 51 ft·lbf)
14 mm head: 37 N·m (380 kgf·cm, 27 ft·lbf)

10. JACK UP TRANSMISSION SLIGHTLY
Using a transmission jack, support the transmission.

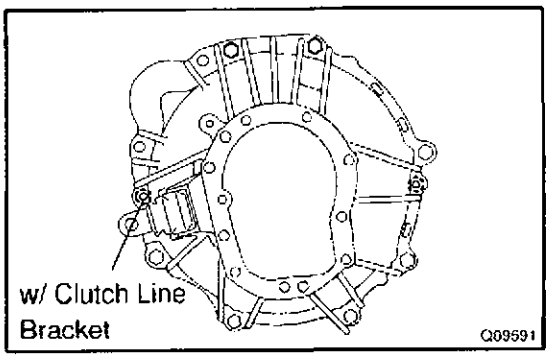


11. REMOVE ENGINE REAR MOUNTING BRACKET
Remove the 8 bolts and bracket.
Torque:
Bolt A: 13 N·m (130 kgf·cm, 9 ft·lbf)
Bolt B: 58 N·m (590 kgf·cm, 43 ft·lbf)

12. REMOVE ENGINE REAR MOUNTING
Remove the 4 bolts and engine rear mounting.
Torque: 40 N·m (410 kgf·cm, 30 ft·lbf)

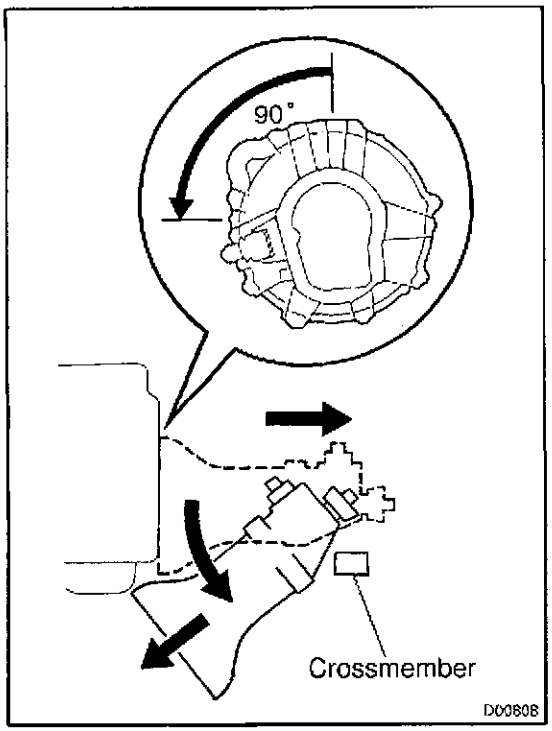


13. REMOVE STARTER
(a) Disconnect the connector and wire from the starter.
(b) Remove the 2 bolts, nut and starter.
Torque: 69 N·m (700 kgf·cm, 51 ft·lbf)



14. **REMOVE TRANSMISSION**

(a) Remove the 4 transmission mounting bolts from the engine.
Torque: 72 N·m (730 kgf·cm, 53 ft·lbf)



(b) Pull out the transmission toward the rear.
(c) Turn the transmission counterclockwise.
(d) Move the transmission backward again.
(e) Lower the front side of the transmission and remove it from the front side of the vehicle.

MT05Y-01

INSTALLATION

Installation is in the reverse order of removal.

(See page MT–12)

HINT:

After installation, do the road test.