

Section : Chassis/  
Power Train

Ref. No. : CP-1024

Date : Aug., 2001

Page : 1 of 1

Area Application : Others(Hong Kong)

Model Name : HIACE

Model Code : LH172 (5L-E Engine)

**Subject : REPAIR MANUAL SUPPLEMENT (G56 M/T)**

This Service Bulletin is to inform you of the repair procedure for the G56 M/T due to the change from 5L engine to 5L-E engine.

The attached pages are to be used with the following manuals.

Pub. No.	Publication Name
RM156E	HIACE Chassis & Body Repair Manual
RM471E	HIACE Chassis & Body Repair Manual Supplement
RM670E	HIACE Chassis & Body Repair Manual Supplement
RM709E	HIACE Chassis & Body Repair Manual Supplement

Production Effective :

VIN	Production Date
—	From Augst, 2001

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# SERVICE SPECIFICATIONS

MANUAL TRANSMISSION ..... SS-1



MANUAL TRANSMISSION  
TORQUE SPECIFICATION

SS1JX-02

Part tightened		N·m	kgf·cm	ft·lbf
Drain and filler plugs		37	380	27
Front exhaust pipe	Upper bolt	40	408	30
	Lower bolt	43	439	32
No. 3 shifting rod x Shift outer lever		12	122	9
No. 2 cross shaft assembly x Body		12	122	9
No. 2 cross shaft assembly x Transmission		36	367	27
Starter x Starter wire		9.8	100	87in.·lbf
Starter x Transmission		69	704	51
Starter bracket	Nut	12	120	9
	Bolt	37	380	27
LH and RH stiffener plate x Transmission	Bolt A	37	380	27
	Bolt B	69	700	51
Engine rear mounting bracket set bolt		70	710	51
Clutch release cylinder x Clutch housing		12	120	9
Transmission x Engine		71.5	730	53
	Bolt (c)	65.5	670	48

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# MANUAL TRANSMISSION

MANUAL TRANSMISSION UNIT (G56) . . . . . MT-1



# MANUAL TRANSMISSION UNIT (G56)

MT0GD-01

## ON-VEHICLE REPAIR

### REPLACE TRANSMISSION OIL

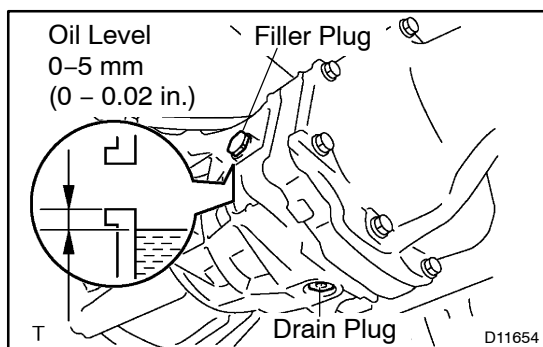
- (a) Loosen the filler plug.
- (b) Remove the drain plug.

#### HINT:

Use a container to catch the transmission oil.

- (c) Remove the filler plug.
- (d) Reinstall the drain plug.

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



- (e) Refill new transmission oil as shown in the illustration.

**Oil grade: API GL-4 or GL-5**

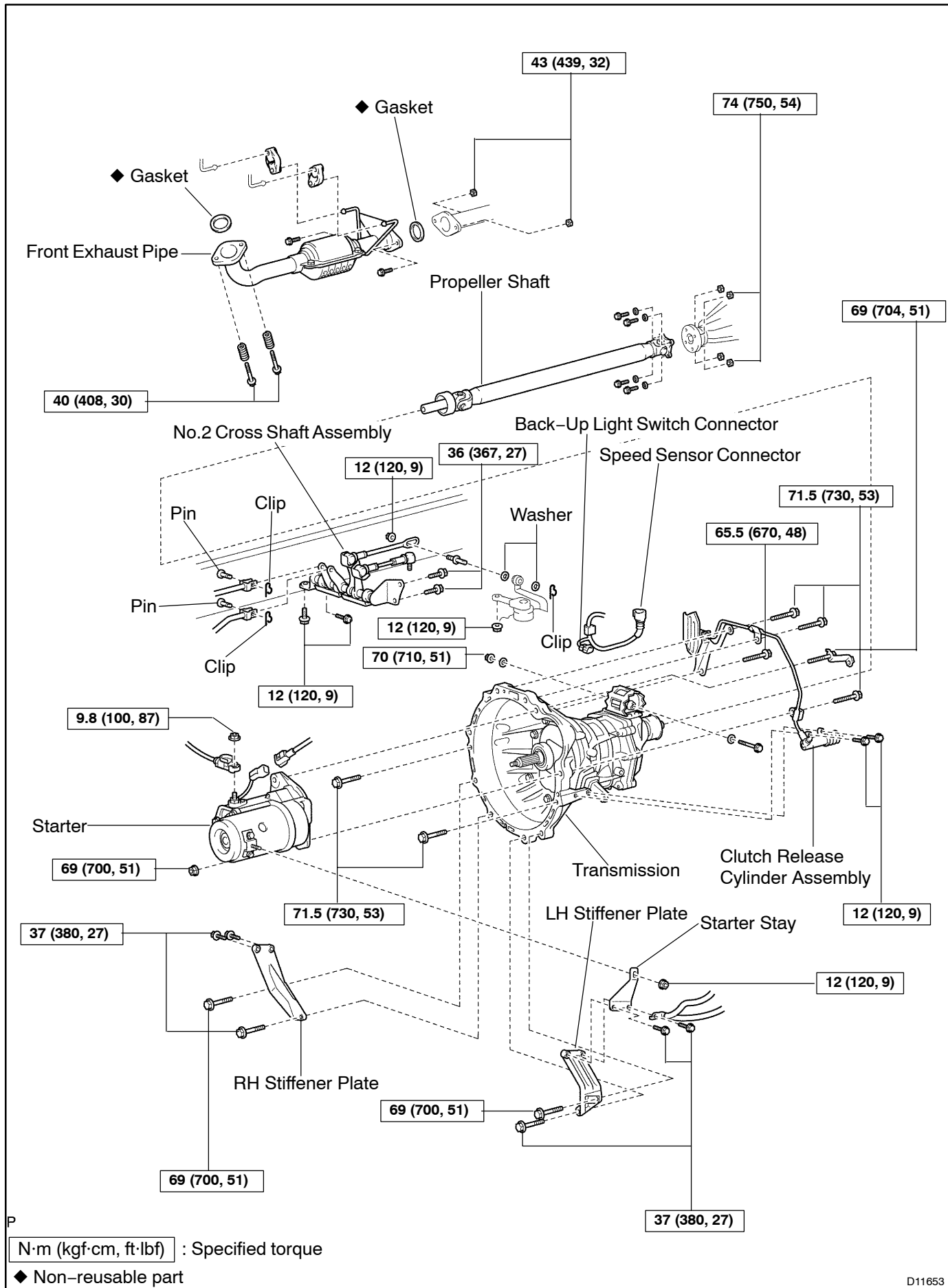
**Viscosity: SAE 75W-90**

**Capacity: 2.2 liters (2.3 US qts, 2.5 Imp.qts)**

- (f) Reinstall the filler plug.

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

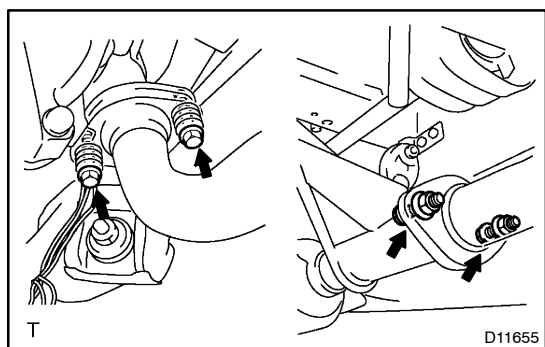
## COMPONENTS



## REMOVAL

### 1. REMOVE PROPELLER SHAFT

(See Pub. No. RM156E on page PR-3)



### 2. REMOVE FRONT EXHAUST PIPE

- (a) Remove the 2 bolts and compression springs.

**Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)**

- (b) Remove the 2 bolts and 2 nuts.

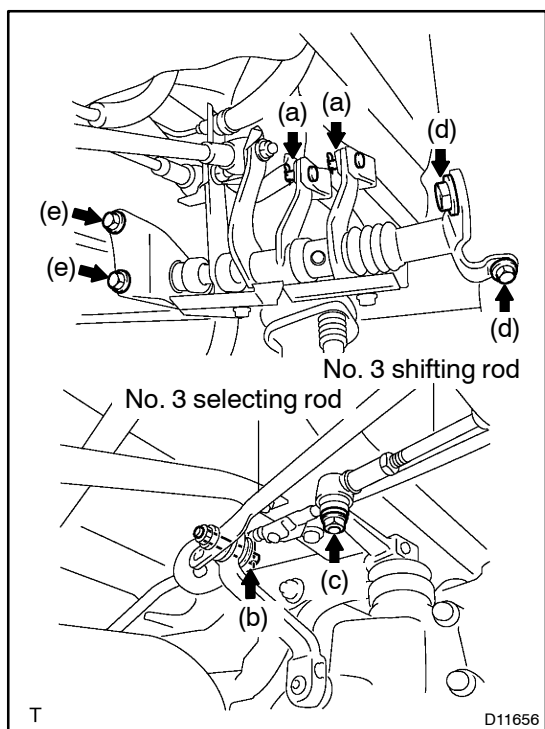
**Torque: 43 N·m (439 kgf·cm, 32 ft·lbf)**

- (c) Remove the front exhaust pipe and 2 gaskets.

**HINT:**

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

Replace the used gaskets and nuts with new once.



### 3. REMOVE NO. 2 CROSS SHAFT ASSEMBLY

- (a) Remove the 2 pins and 2 clips.

- (b) Remove the clip and 2 washers, disconnect the No. 3 selecting rod.

- (c) Remove the nut, disconnect the No. 3 shifting rod.

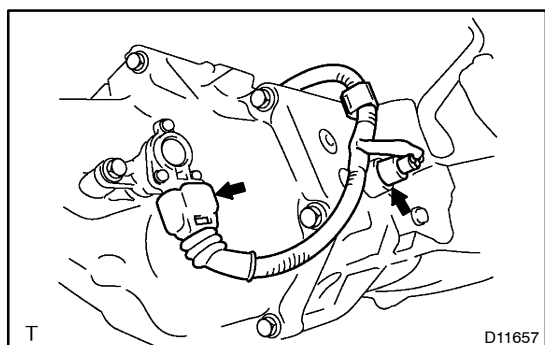
**Torque: 12 N·m (122 kgf·cm, 9 ft·lbf)**

- (d) Remove the 2 bolts.

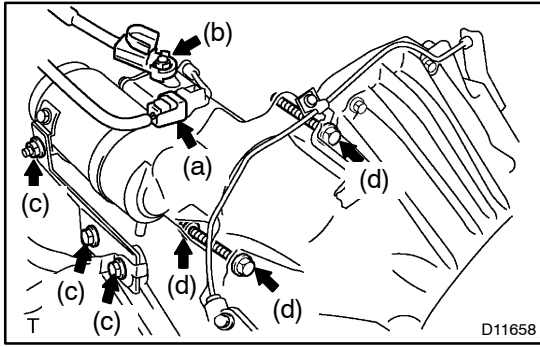
**Torque: 12 N·m (122 kgf·cm, 9 ft·lbf)**

- (e) Remove the 2 bolts and cross shaft assembly.

**Torque: 36 N·m (367 kgf·cm, 27 ft·lbf)**



### 4. DISCONNECT BACK-UP LIGHT SWITCH CONNECTOR AND SPEED SENSOR CONNECTOR



## 5. REMOVE STARTER

- (a) Disconnect the starter connector from the starter.
- (b) Disconnect the starter wire from the starter.

**Torque: 9.8 N·m (100 kgf·cm, 87 in·lbf)**

- (c) Remove the 2 bolts, nut and starter stay.

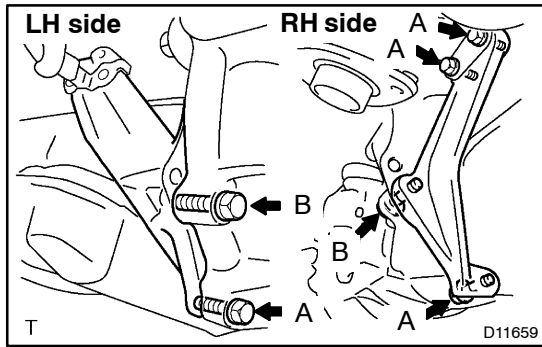
**Torque:**

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

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

- (d) Remove the 2 bolts, nut and starter.

**Torque: 69 N·m (704 kgf·cm, 51 ft·lbf)**



## 6. REMOVE LH AND RH STIFFENER PLATE

Remove the 6 bolts and LH and RH stiffener plate.

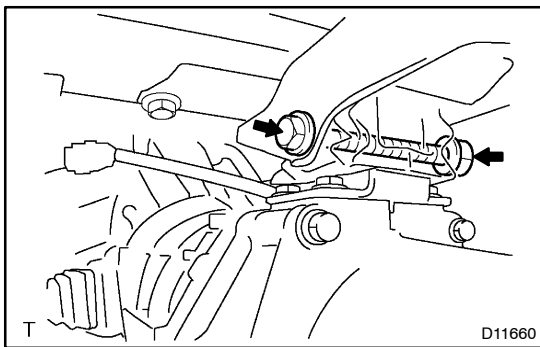
**Torque:**

**Bolt A: 37 N·m (380 kgf·cm, 27 ft·lbf)**

**Bolt B: 69 N·m (700 kgf·cm, 51 ft·lbf)**

## 7. JACK UP TRANSMISSION SLIGHTLY

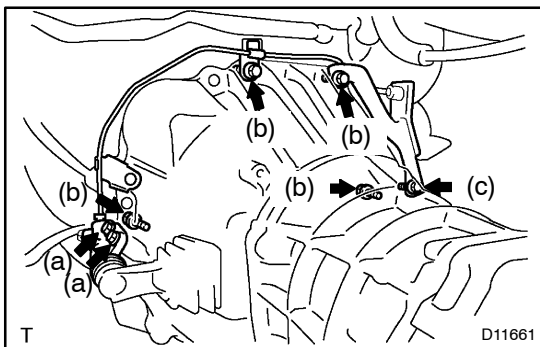
Using a transmission jack, support the transmission.



## 8. REMOVE REAR ENGINE MOUNTING BRACKET SET BOLT AND NUT

Remove the nut, bolt and 2 washers.

**Torque: 70 N·m (710 kgf·cm, 51 ft·lbf)**



## 9. REMOVE TRANSMISSION

- (a) Remove the 2 bolts and disconnect the release cylinder assembly.

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

- (b) Remove the 4 transmission mounting bolts from the engine.

**Torque: 71.5 N·m (730 kgf·cm, 53 ft·lbf)**

- (c) Remove the transmission mounting bolt from the engine.

**Torque: 65.5 N·m (670 kgf·cm, 48 ft·lbf)**

- (d) Pull out the transmission down and toward the rear.

**HINT:**

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

- Align the input shaft with the clutch disc and install the transmission to the engine.
- Temporarily tighten the transmission mounting bolts.



## INSTALLATION

**Installation is in the reverse order of removal (See page MT-3).**

HINT:

After installation, check and inspect items as follows.

- Check the transmission oil level (See page MT-1).
- Check the front wheel alignment (See Pub. No. RM156E on page SA-4).
- Do the road test.

