

## PROCEDURE

### 1. PRECAUTION

#### CAUTION:

Be sure to read precaution thoroughly before servicing.

[Click here](#)Vehicle Interior>SUPPLEMENTAL RESTRAINT SYSTEMS>AIRBAG SYSTEM>PRECAUTION

#### NOTICE:

After turning the ignition switch off, waiting time may be required before disconnecting the cable from the negative (-) battery terminal. Therefore, make sure to read the disconnecting the cable from the negative (-) battery terminal notices before proceeding with work.

[Click here](#)General>INTRODUCTION>REPAIR INSTRUCTION>PRECAUTION

### 2. DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL

#### CAUTION:

Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to disable the SRS system.

### 3.REMOVE NO. 2 ENGINE UNDER COVER

51442

[Click here](#)Engine / Hybrid System>1GR-FE COOLING>RADIATOR>REMOVAL

### 4.DRAIN ENGINE COOLANT

[Click here](#)Engine / Hybrid System>1GR-FE COOLING>COOLANT>REPLACEMENT

### 5.REMOVE NO. 1 RADIATOR HOSE

16571C

[Click here](#)Engine / Hybrid System>1GR-FE COOLING>RADIATOR>REMOVAL

### 6.REMOVE FAN SHROUD

16711

[Click here](#)Engine / Hybrid System>1GR-FE COOLING>RADIATOR>REMOVAL

### 7.REMOVE AIR CLEANER CAP SUB-ASSEMBLY WITH NO. 1 AIR CLEANER HOSE

17705

[Click here](#)Engine / Hybrid System>1GR-FE ENGINE MECHANICAL>ENGINE ASSEMBLY>REMOVAL

### 8.REMOVE FRONT DOOR SCUFF PLATE LH

67914

for 2 door: ([Click here](#)Vehicle Interior>INTERIOR PANELS / TRIM>ROOF HEADLINING(for Single Cab)>REMOVAL)

for 4 door: ([Click here](#)Vehicle Interior>INTERIOR PANELS / TRIM>ROOF HEADLINING(for Double Cab)>REMOVAL)

### 9.REMOVE FRONT DOOR SCUFF PLATE RH

67913

#### HINT:

Use the same procedure described for the LH side.

### 10.REMOVE COWL SIDE TRIM SUB-ASSEMBLY LH

62112A

for 2 door: ([Click here](#)Vehicle Interior>INTERIOR PANELS / TRIM>ROOF HEADLINING(for Single Cab)>REMOVAL)

for 4 door: ([Click here](#)Vehicle Interior>INTERIOR PANELS / TRIM>ROOF HEADLINING(for Double Cab)>REMOVAL)

### 11.REMOVE COWL SIDE TRIM SUB-ASSEMBLY RH

62111A

#### HINT:

Use the same procedure described for the LH side.

## 12.REMOVE FRONT FLOOR FOOTREST

58191

for LHD: (Click hereVehicle Interior>INTERIOR PANELS / TRIM>FRONT FLOOR FOOTREST(for RHD)>REMOVAL)  
for RHD: (Click hereVehicle Interior>INTERIOR PANELS / TRIM>FRONT FLOOR FOOTREST(for RHD)>REMOVAL)

## 13.REMOVE CONSOLE BOX

58811B

Click hereVehicle Interior>INTERIOR PANELS / TRIM>INSTRUMENT PANEL SAFETY PAD>REMOVAL

## 14.REMOVE AIRBAG SENSOR COVER

89179A

Click hereVehicle Interior>SUPPLEMENTAL RESTRAINT SYSTEMS>CENTER AIRBAG SENSOR ASSEMBLY>REMOVAL

## 15.REMOVE AIRBAG SENSOR ASSEMBLY WITH AIRBAG SENSOR BRACKET (w/ Airbag System)

89170

Click hereVehicle Interior>SUPPLEMENTAL RESTRAINT SYSTEMS>CENTER AIRBAG SENSOR ASSEMBLY>REMOVAL

## 16.REMOVE DECELERATION SENSOR (w/ ABS)

89441A

Click hereBrake>BRAKE CONTROL / DYNAMIC CONTROL SYSTEMS>DECELERATION SENSOR(w/ ABS)>REMOVAL

## 17.REMOVE SHIFT LEVER KNOB SUB-ASSEMBLY

36303

Click hereDrivetrain>HF1A TRANSFER / 4WD / AWD>TRANSFER SHIFT LEVER ASSEMBLY>REMOVAL

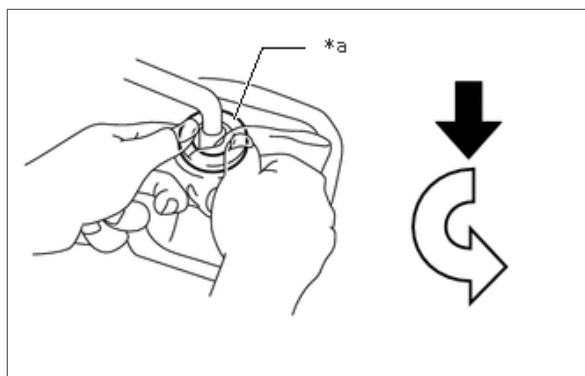
## 18.REMOVE NO. 1 SHIFT AND SELECT LEVER BOOT



58286

Click hereDrivetrain>HF1A TRANSFER / 4WD / AWD>TRANSFER SHIFT LEVER ASSEMBLY>REMOVAL

## 19.REMOVE TRANSMISSION SHIFT LEVER ASSEMBLY

33530F



| *a  | Cloth or Equivalent |
|---|---------------------|
|  | Down                |
|  | Counterclockwise    |

- Cover the shift lever cap with a cloth or equivalent.
- While pressing down on the shift lever cap, turn it counterclockwise to remove the transmission shift lever assembly.
- Pull out the transmission shift lever assembly.

## 20.REMOVE TRANSFER SHIFT LEVER ASSEMBLY

[Click here](#)Drivetrain>HF1A TRANSFER / 4WD / AWD>TRANSFER SHIFT LEVER ASSEMBLY>REMOVAL

21.DISCONNECT HIGH AND LOW SHIFT ROD SUB-ASSEMBLY

36308

- a. Remove the nut and washer, disconnect the high and low shift rod sub-assembly.

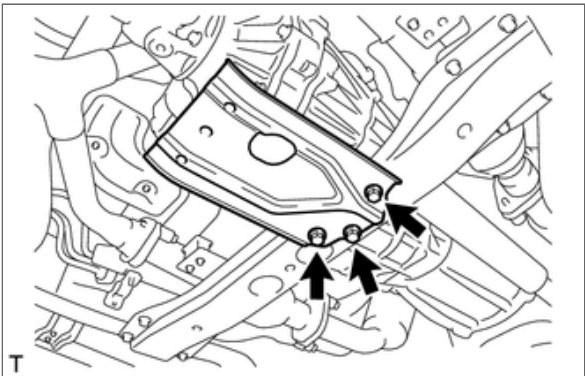
22.DRAIN MANUAL TRANSMISSION OIL

- a. Remove the drain plug sub-assembly and gasket, and then drain the manual transmission oil.
- b. Install a new gasket and the drain plug sub-assembly.

**Torque:**  
**37.24 N\*m (380 kgf\*cm, 27 ft.\*lbf)**

23.REMOVE TRANSFER CASE PROTECTOR

51447C



- a. Remove the 3 bolts and transfer case protector from the No. 2 frame crossmember sub-assembly.

24.REMOVE FRONT EXHAUST PIPE ASSEMBLY (for Model Code #J78, #J79 Series)

17410

[Click here](#)Engine / Hybrid System>1GR-FE INTAKE / EXHAUST>EXHAUST PIPE(for Model Code #J78, #J79 Series)>REMOVAL

25.REMOVE FRONT EXHAUST PIPE ASSEMBLY (for Model Code #J71, #J76 Series)

17410

[Click here](#)Engine / Hybrid System>1GR-FE INTAKE / EXHAUST>EXHAUST PIPE(for Model Code #J71, #J76 Series)>REMOVAL

26.REMOVE NO. 1 EXHAUST MANIFOLD STAY

17118

[Click here](#)Engine / Hybrid System>1GR-FE INTAKE / EXHAUST>EXHAUST MANIFOLD>REMOVAL

27.REMOVE NO. 2 MANIFOLD STAY

17119

[Click here](#)Engine / Hybrid System>1GR-FE INTAKE / EXHAUST>EXHAUST MANIFOLD>REMOVAL

28.REMOVE FRONT PROPELLER SHAFT ASSEMBLY

37140

[Click here](#)Drivetrain>DRIVE SHAFT / PROPELLER SHAFT>FRONT PROPELLER SHAFT ASSEMBLY>REMOVAL

29.REMOVE REAR PROPELLER SHAFT ASSEMBLY

37110

[Click here](#)Drivetrain>DRIVE SHAFT / PROPELLER SHAFT>PROPELLER SHAFT ASSEMBLY>REMOVAL

30.REMOVE STARTER ASSEMBLY

28100

[Click here](#)Engine / Hybrid System>1GR-FE STARTING>STARTER>REMOVAL

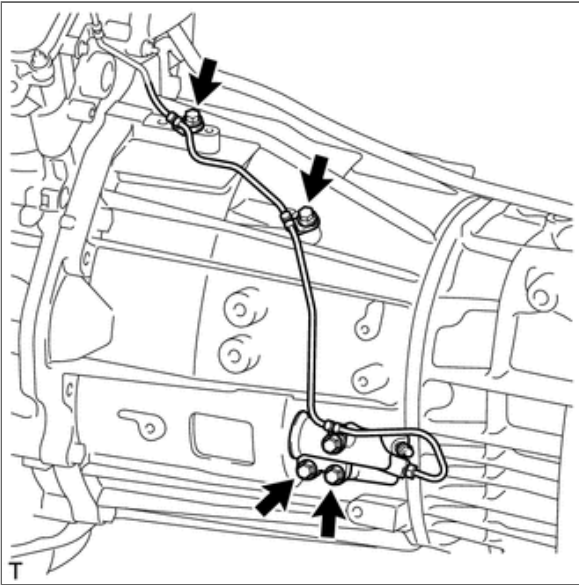
### 31.REMOVE NO. 1 CLUTCH HOUSING COVER

31121

[Click here](#)Drivetrain>CLUTCH>CLUTCH RELEASE CYLINDER(for 1GR-FE)>REMOVAL

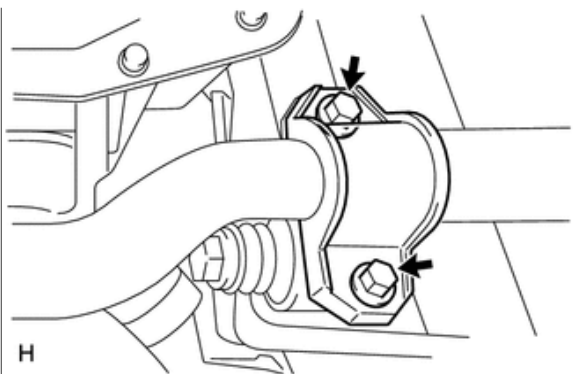
### 32.DISCONNECT CLUTCH RELEASE CYLINDER ASSEMBLY

31470



- a. Remove the 4 bolts and disconnect the clutch release cylinder assembly.

### 33.REMOVE FRONT STABILIZER BRACKET LH



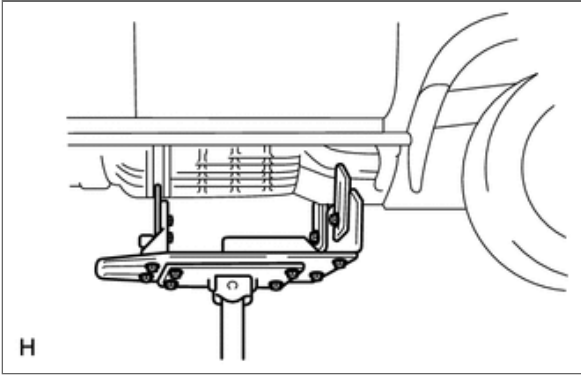
- a. Remove the 2 bolts and front stabilizer bracket LH.

### 34.REMOVE FRONT STABILIZER BRACKET RH

#### **HINT:**

Use the same procedures described for the LH side.

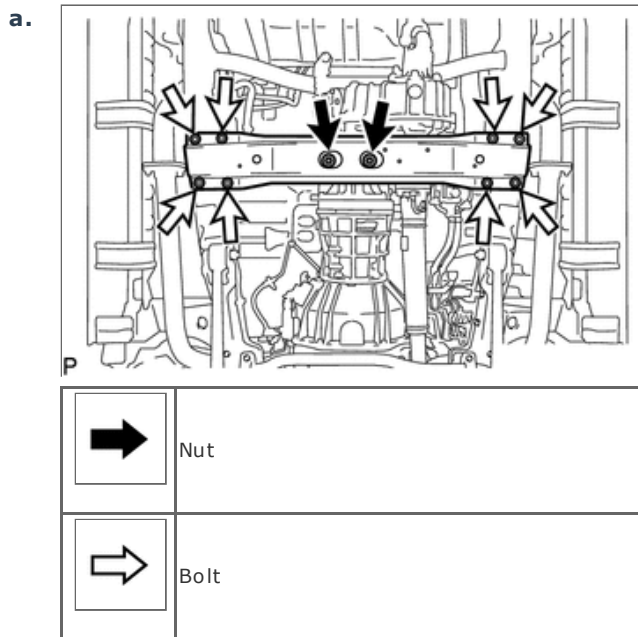
### 35.SUPPORT MANUAL TRANSMISSION



- a. Support the manual transmission with a transmission jack.

### 36.REMOVE NO. 2 FRAME CROSSMEMBER SUB-ASSEMBLY

51203

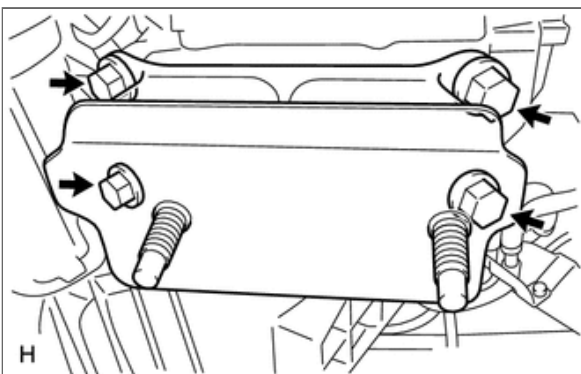


Remove the 8 bolts.

- b. Remove the 2 nuts and No. 2 frame crossmember sub-assembly.

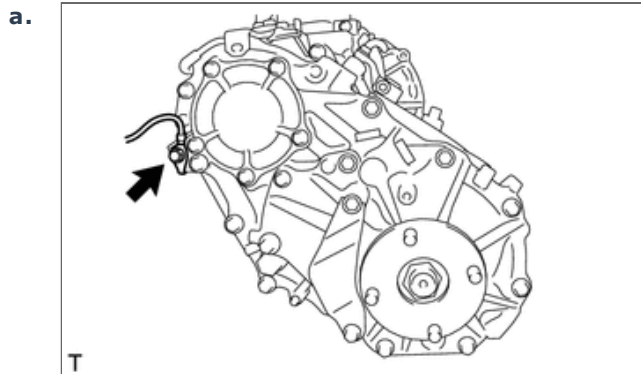
### 37.REMOVE REAR ENGINE MOUNTING INSULATOR

12371

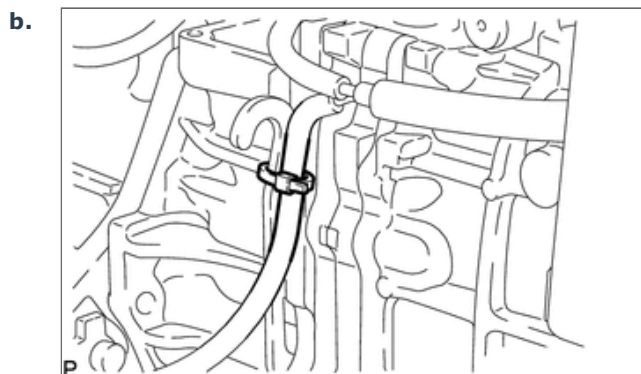


- a. Remove the 4 bolts and rear engine mounting insulator from the manual transmission with transfer.

### 38.DISCONNECT WIRE HARNESS

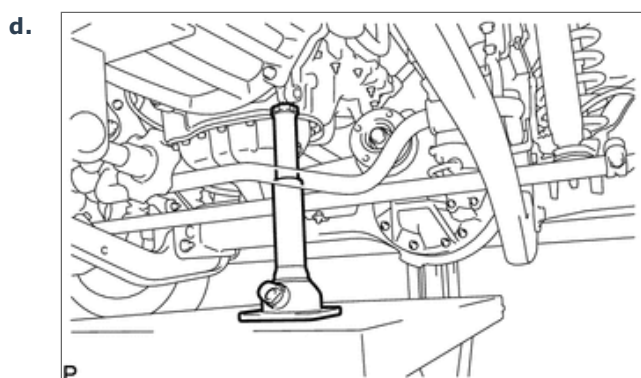


Remove the bolt and disconnect the No. 2 cable bond.



Remove the clamp and disconnect the wire harness from the manual transmission.

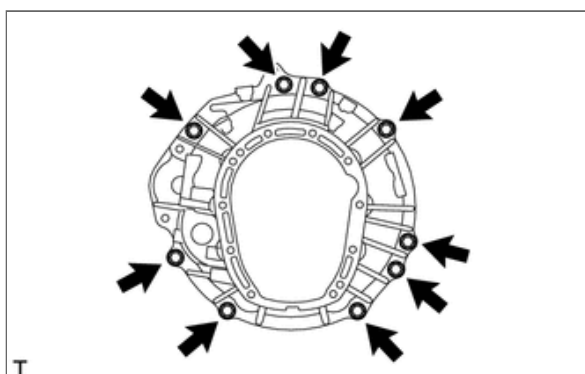
c. Tilt the manual transmission together with the transfer downward.



Support the engine assembly with the jack and engine lifter so that it is stable as shown in the illustration.

e. Disconnect the connectors and clamps, and then disconnect the wire harness from the manual transmission.

### 39.REMOVE MANUAL TRANSMISSION WITH TRANSFER



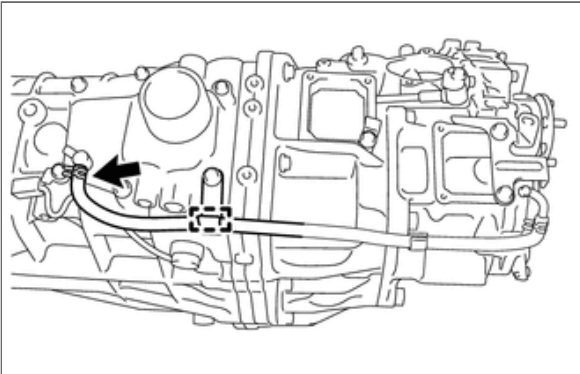
- a. Remove the 9 bolts and manual transmission with transfer.

**NOTICE:**

Do not use excess force to pry off the transmission.

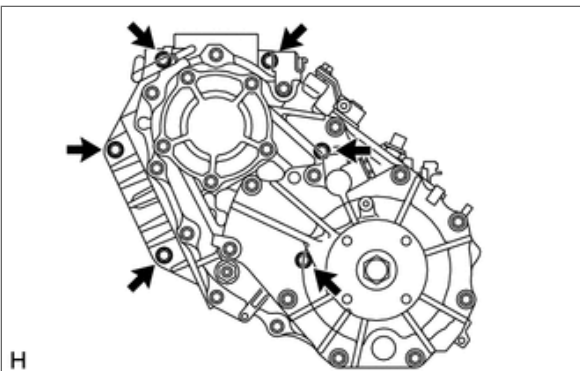
**40.REMOVE REAR NO. 1 TRANSFER CASE HOSE**

36112B



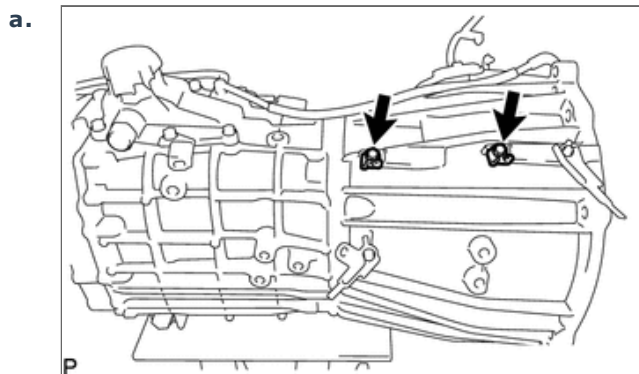
- a. Disconnect the clamp.
- b. Slide the clip and disconnect the rear No. 1 transfer case hose from the manual transmission.

**41.REMOVE TRANSFER ASSEMBLY**

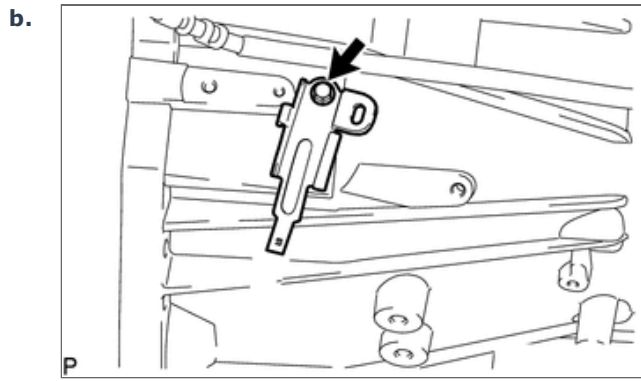


- a. Remove the 6 bolts and transfer assembly from the manual transmission.

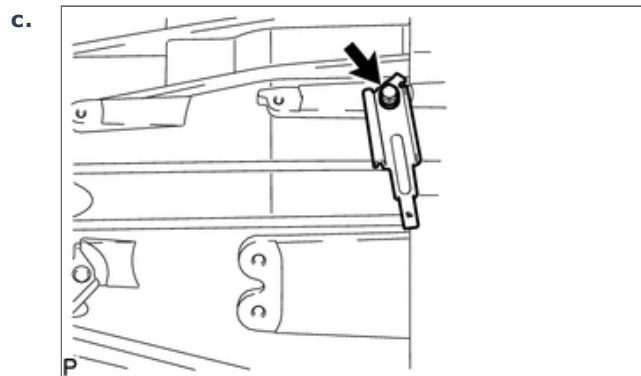
**42.REMOVE WIRE HARNESS CLAMP BRACKET**



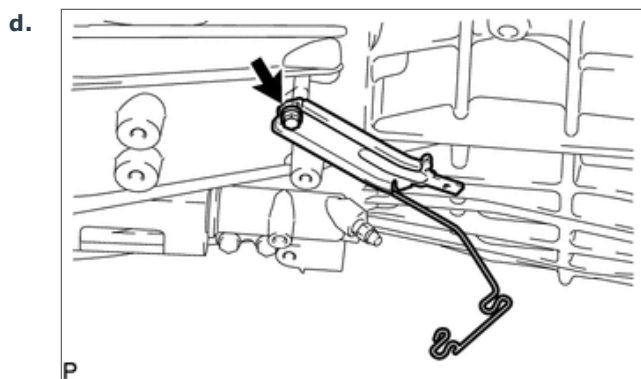
Remove the 2 bolts and 2 wire harness clamp brackets.



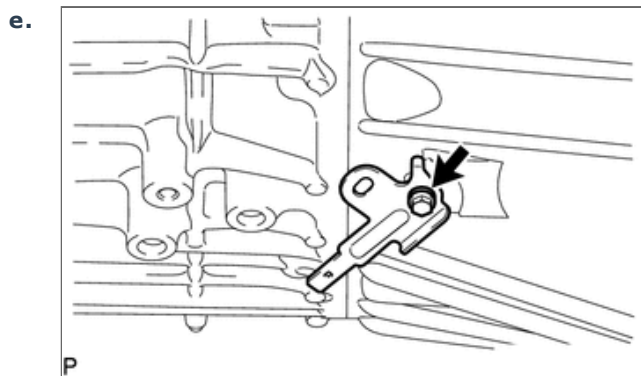
Remove the bolt and air fuel ratio sensor bracket LH.



Remove the bolt and air fuel ratio sensor bracket RH.



Remove the bolt and heated oxygen sensor bracket LH.



Remove the bolt and heated oxygen sensor bracket RH.





#### 44.REMOVE CLUTCH RELEASE FORK SUPPORT BOOT

31237

[Click here](#)Drivetrain>CLUTCH>CLUTCH UNIT(for 1GR-FE)>REMOVAL



#### 45.REMOVE RELEASE FORK SUPPORT

31236B

[Click here](#)Drivetrain>CLUTCH>CLUTCH UNIT(for 1GR-FE)>REMOVAL