

## REPLACEMENT

### 1. REMOVE ENGINE UNDER COVER ASSY REAR

- (a) Remove the 6 bolts and engine under cover assy rear.

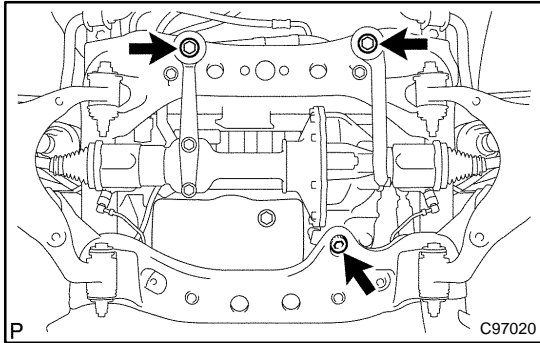
### 2. REMOVE ENGINE UNDER COVER SUB-ASSY NO.1

- (a) Remove the 4 bolts and engine under cover sub-assy No.1.

### 3. REMOVE FRONT DIFFERENTIAL DRAIN PLUG

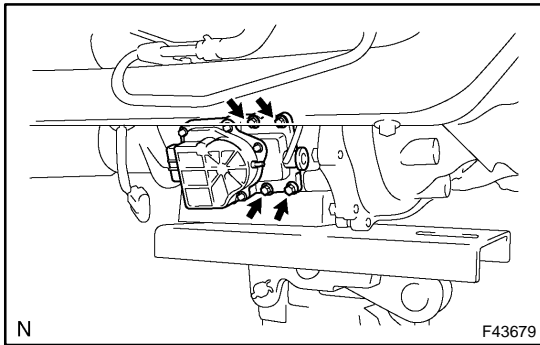
### 4. DRAIN DIFFERENTIAL OIL (See Pub. No. RM1001U on page 29-3)

### 5. REMOVE PROPELLER SHAFT ASSY FRONT (See Pub. No. RM1001U on page 30-4)

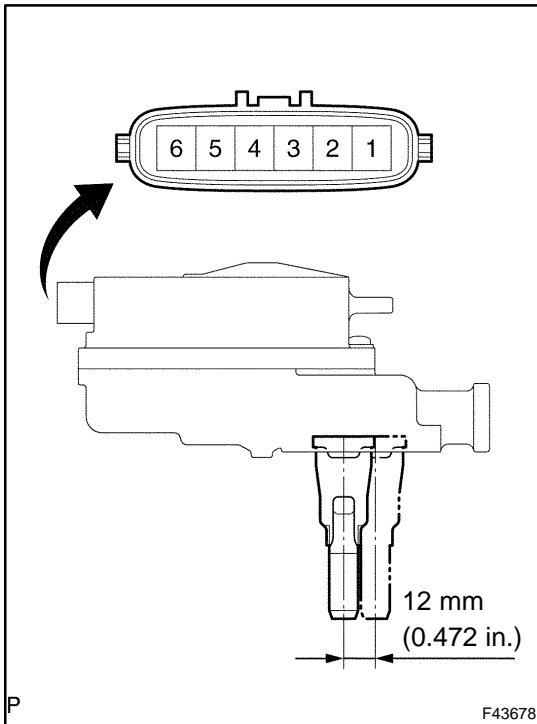


### 6. REMOVE DIFFERENTIAL VACUUM ACTUATOR ASSY

- (a) Remove the bolt and separate the front differential breather tube bracket.  
(b) Support the front differential with a jack.  
(c) Remove the front differential mount nut No.1.  
(d) Remove the 2 front mounting bolts and 2 nuts.  
(e) Disconnect the actuator hose and connector.  
(f) Lower the jack.



- (g) Remove the 4 bolts and differential vacuum actuator assy.



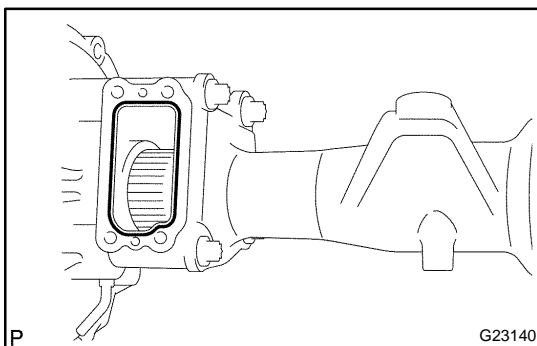
## 7. INSPECT DIFFERENTIAL VACUUM ACTUATOR ASSY

- Measure the resistance between the terminals 1 - 2.  
**Standard resistance: 0.1 - 100  $\Omega$**
- Measure the resistance between the terminals 1 or 2 and body ground.  
**Standard resistance: 5 M $\Omega$  or more**

If the resistance value is not as specified, replace the differential vacuum actuator assembly.

- Apply battery positive voltage between the terminal 1 - 2, and check the actuator operation by sound, actuator status and continuity between the terminal 3 - 4, 5 - 4 and 6 - 4.

Battery voltage applied terminal	3 - 4 terminals continuity	5 - 4 terminals continuity	6 - 4 terminals continuity	Actuator status
1 (+) - 2 (-)	Continuity	Continuity	No continuity	Connected
1 (-) - 2 (+)	No continuity	No continuity	Continuity	Disconnected

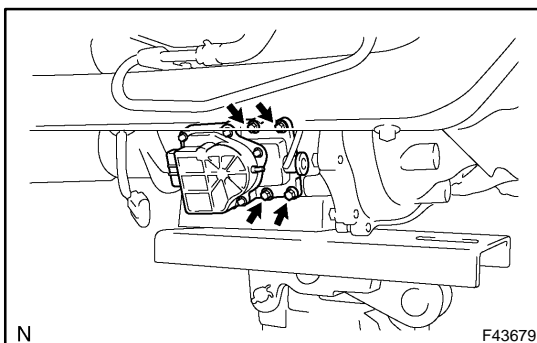


## 8. INSTALL DIFFERENTIAL VACUUM ACTUATOR ASSY

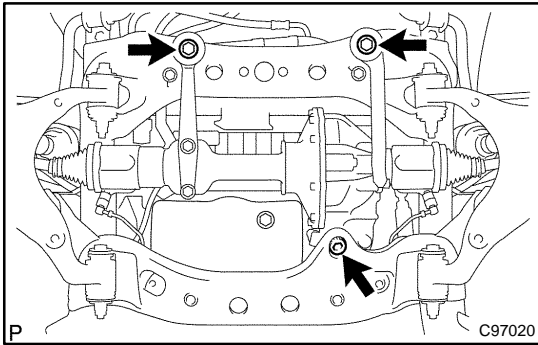
- Remove the any oil FIPG material and be careful not to drop oil on the contact surfaces of the actuator and clutch case.
- Clean connecting surfaces of any residual FIPG material using gasoline or alcohol.
- Apply FIPG to the differential tube, as shown.  
**FIPG: Part No. 08826-00090, THREE BOND 1281 or equivalent**

HINT:

Install the actuator within 10 minutes after applying FIPG.



- Clean the threads of the 4 bolts and retainer bolt holes with toluene or trichloroethylene.
- Install the differential vacuum actuator assy to the differential tube.
- Apply adhesive to 2 to 3 threads of the bolts end.  
**Adhesive: Part No. 08833-00070, THREE BOND 1281 or equivalent**
- Install the 4 bolts.  
**Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)**



- (h) Connect the actuator hose and connector.
- (i) Install the No.1 mounting support with the 3 bolts.  
**Torque: 186 N·m (1,900 kgf·cm, 137 ft·lbf)**
- (j) Install the No.2 mounting support with the 2 bolts.  
**Torque: 160 N·m (1,630 kgf·cm, 118 ft·lbf)**
- (k) Install the front differential support No.3 with the 2 bolts.  
**Torque: 108 N·m (1,100 kgf·cm, 80 ft·lbf)**
- (l) Support the front differential with a jack.
- (m) Install the 2 front mounting bolts and nuts.  
**Torque: 137 N·m (1,400 kgf·cm, 101 ft·lbf)**
- (n) Install the front differential mount nuts No.1.  
**Torque: 87 N·m (887 kgf·cm, 64 ft·lbf)**
- (o) Install the front differential breather tube bracket with a bolt.  
**Torque: 13 N·m (133 kgf·cm, 10 ft·lbf)**
- (p) Lower the jack.

**9. INSTALL PROPELLER SHAFT ASSY FRONT (See Pub. No. RM1001U on page 30-4)**

**10. INSPECT DIFFERENTIAL OIL (See Pub. No. RM1001U on page 29-3)**

**11. ADD INSPECT DIFFERENTIAL OIL (See Pub. No. RM1001U on page 29-3)**

**12. INSTALL ENGINE UNDER COVER SUB-ASSY NO.1**

- (a) Install the engine under cover sub-assy No.1 with the 4 bolts.

**13. INSTALL ENGINE UNDER COVER ASSY REAR**

- (a) Install the engine under cover assy rear with the 6 bolts.