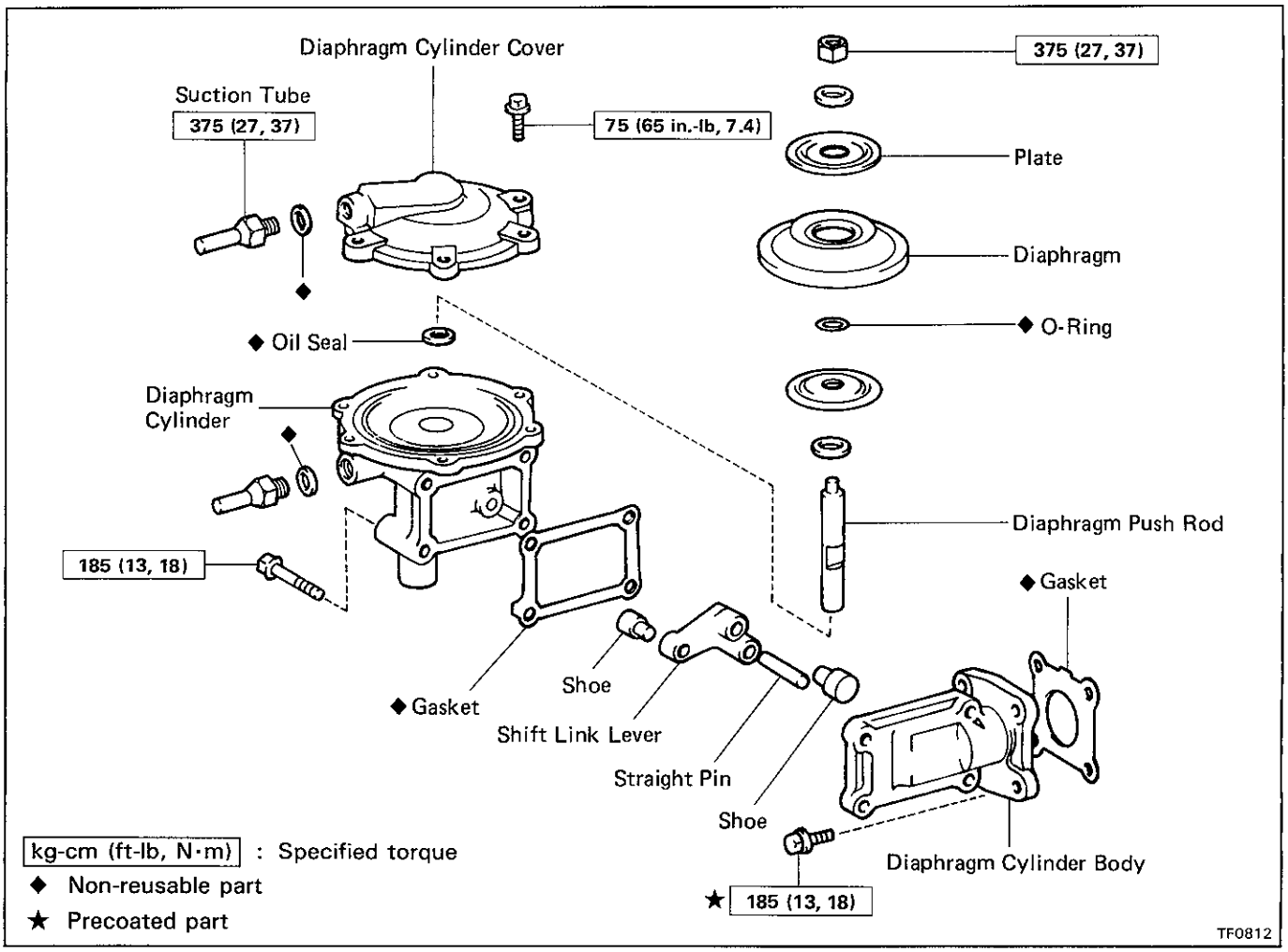
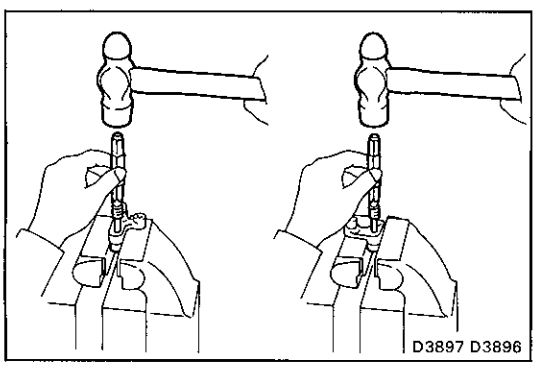
Diaphragm Cylinder

COMPONENTS



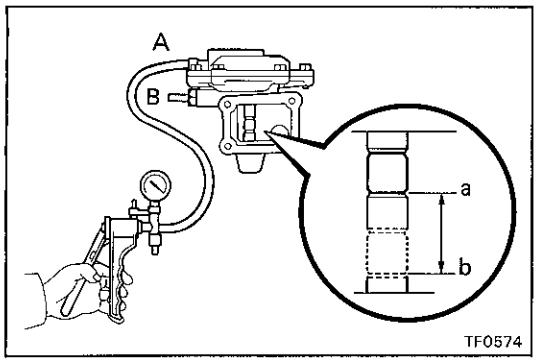
DISASSEMBLY OF DIAPHRAGM CYLINDER

1. **REMOVE DIAPHRAGM CYLINDER ASSEMBLY**
(See page TF-22)



2. **REMOVE SHOE FROM SHIFT LINK LEVER**

Using a pin punch and hammer, drive out the two shoes from the shift link lever.



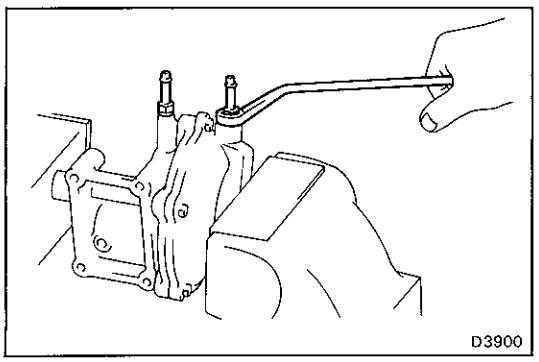
3. INSPECT DIAPHRAGM CYLINDER ASSEMBLY

(a) With at least 400 mmHg (15.75 in.Hg, 53.3 kPa) of vacuum in the port A or B, check that the shaft moves.

(b) Check the stroke between a and b.

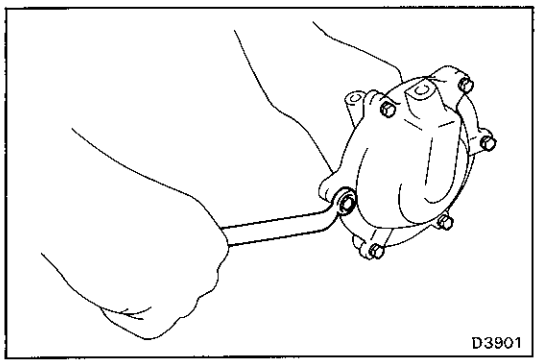
Standard stroke: 21 mm (0.82 in.)

(c) With at least 400 mmHg (15.75 in.Hg, 53.3 kPa) of vacuum in the diaphragm, check that the gauge needle is stable.



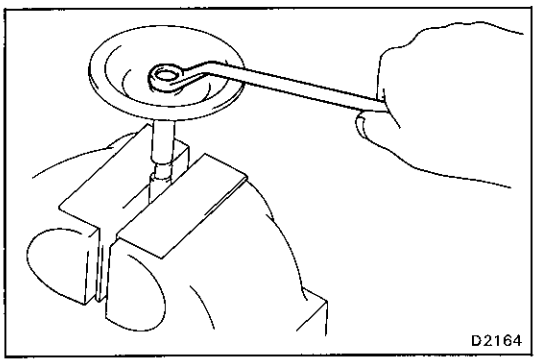
4. REMOVE SUCTION TUBES

Remove the suction tubes and gaskets from the diaphragm cylinder and cover.



5. REMOVE DIAPHRAGM CYLINDER COVER AND PUSH ROD

Remove the six bolts, diaphragm cylinder cover and push rod.



6. REMOVE FOLLOWING PARTS FROM DIAPHRAGM PUSH ROD

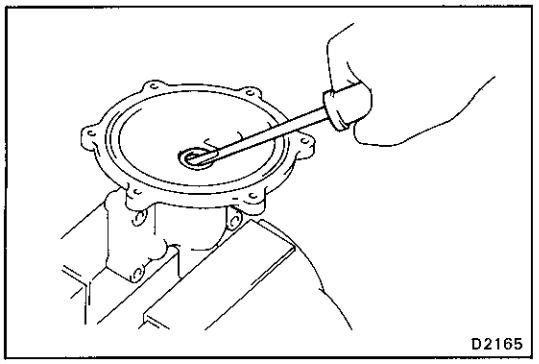
(a) Nut

(b) Two washers

(c) Two plates

(d) Diaphragm

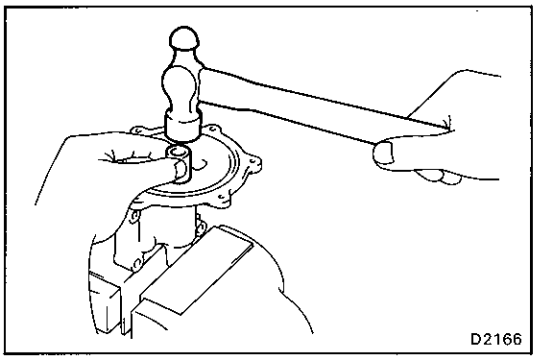
(e) O-ring



INSPECTION AND REPAIR OF DIAPHRAGM CYLINDER

IF NECESSARY, REPLACE OIL SEAL

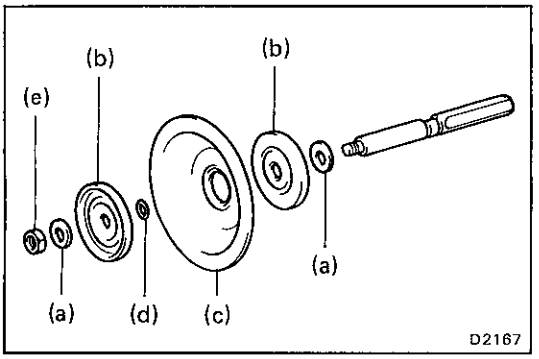
(a) Using a screwdriver, remove the oil seal.



(b) Using a socket wrench, tap in a new oil seal.

(c) Apply MP grease to the oil seal lip.

ASSEMBLY OF DIAPHRAGM CYLINDER



1. INSTALL FOLLOWING PARTS TO DIAPHRAGM PUSH ROD

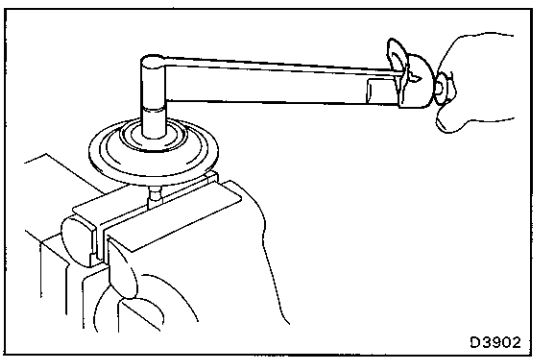
(a) Two washers

(b) Two plates

(c) Diaphragm

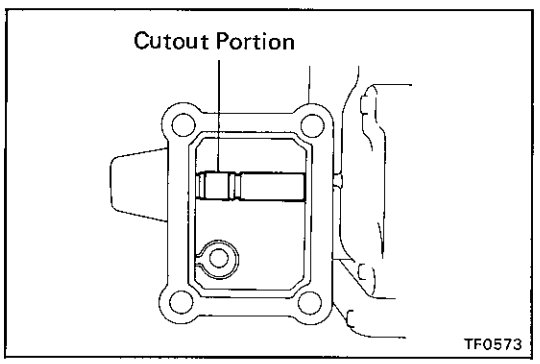
(d) O-ring

(e) Nut



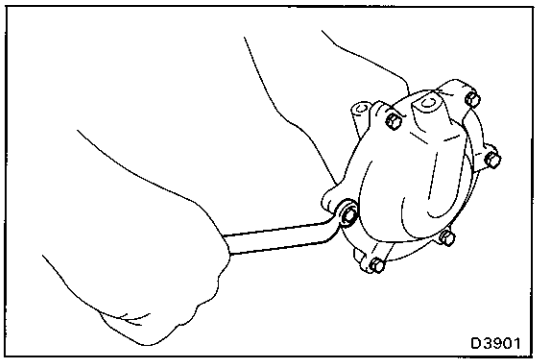
2. TORQUE DIAPHRAGM PUSH ROD NUT

Torque: 375 kg-cm (27 ft-lb, 37 N·m)



3. INSTALL DIAPHRAGM PUSH ROD INTO DIAPHRAGM CYLINDER

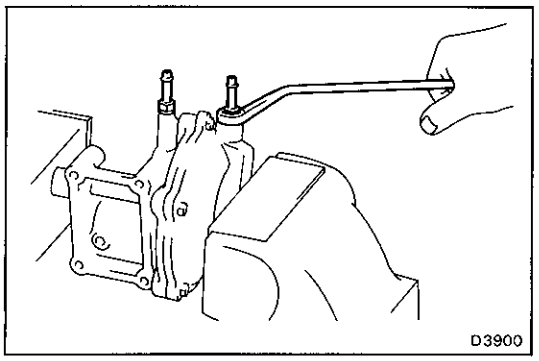
Install the cutout portion of the push rod into the open part of the diaphragm cylinder.



4. **INSTALL DIAPHRAGM CYLINDER COVER**

Install the diaphragm cylinder cover to the diaphragm cylinder with the six bolts.

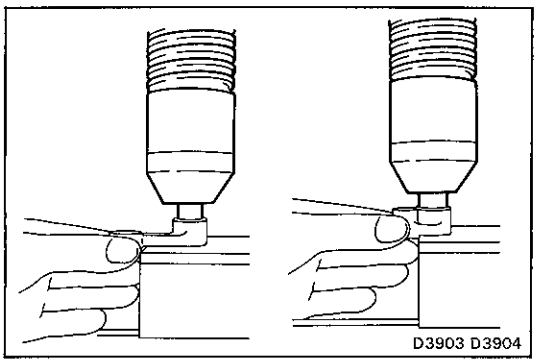
Torque: 75 kg-cm (65 in.-lb, 7.4 N·m)



5. **INSTALL SUCTION TUBES**

Install the suction tubes with new gaskets.

Torque: 375 kg-cm (27 ft-lb, 37 N·m)



6. **INSTALL SHOE TO SHIFT LINK LEVER**

Using a press, press in the two shoes to the shift link lever.

7. **INSTALL DIAPHRAGM CYLINDER ASSEMBLY**
(See page TF-30)