

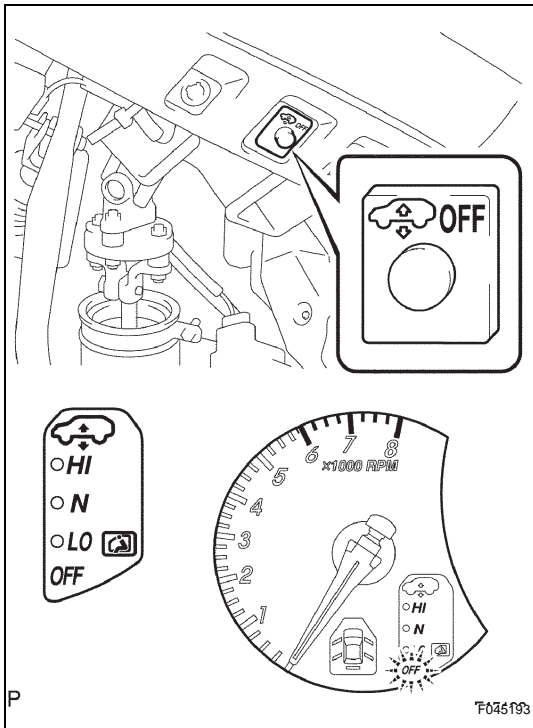
SUSPENSION CONTROL SYSTEM

PRECAUTION

NOTICE:

When disconnecting the negative (-) battery terminal, initialize the following systems after the terminal is reconnected.

System Name	See procedure
Lighting System (Adaptive Front Lighting System)	LI-17
Power Window Control System	WS-12
Power Back Door System	DL-8
Sliding Roof System	RF-4



1. JACK OR LIFT UP AND DOWN

- (a) Follow the procedure below when raising the vehicle with a jack or lift.
 - (1) Turn the ignition switch to the ON position.
 - (2) Press the height control OFF switch button and check that the height control "OFF" indicator light comes on.
 - (3) Turn the ignition switch off.
 - (4) Raise the vehicle.
- (b) Follow the procedure below when lowering the vehicle.
 - (1) Lower the vehicle slowly to the ground.
 - (2) Turn the ignition switch to the ON position.
 - (3) Press that the OFF indicator goes out and that the height control operates.

2. REMOVE FRONT SUSPENSION OR FRONT AXLE

- (a) Do not turn the lower part of the pneumatic cylinder assembly without air in it, otherwise the diaphragm might be twisted or damaged.
- (b) To avoid damage, follow the procedure below when using a compressor to fill the cylinders with air.
 - (1) Stop the compressor as well as the engine in 1 minute after the engine starts.
 - (2) Restart the engine, and stop the engine in 1 minute.

HINT:

- It takes about 2 to 3 minutes to fill the pneumatic cylinders with air when replacing all of them.
- Inject the air in a location where the ambient temperature is below 35°C (95°F).

3. REMOVE HEIGHT CONTROL VALVE NO.1 AND NO.2

- (a) Be careful that the vehicle body lowers because the air in the pneumatic cylinder is discharged by disconnecting the pneumatic cylinder side air tube of the height control valve.

4. DISCONNECT AND CONNECT HEIGHT CONTROL TUBE (Type 1)

NOTICE:

- Disconnecting and connecting the height control tube should be performed by hand to prevent dust or foreign objects from entering.
- Be careful not to damage the height control tube.

(a) Disconnect the height control tube.

- (1) Loosen the locknut.

NOTICE:

Stabilize the chamber of the pneumatic cylinder assembly with your hands to avoid movement.

- (2) Disconnect the tube from the pneumatic cylinder.

- (3) Remove the 2 O-rings.

(b) Install the height control tube.

- (1) Install the 2 new O-rings to the height control tube and coat them with MP grease No. 2.

NOTICE:

Air leaks may occur if dust or foreign objects come into contact with the O-rings.

- (2) Insert the tube into the pneumatic cylinder assembly and connect the tube with a locknut.

Torque: 17 N*m (175 kgf*cm, 13 ft.*lbf)

NOTICE:

Stabilize the chamber of the pneumatic cylinder assembly with your hands to avoid movement.

5. DISCONNECT AND CONNECT HEIGHT CONTROL TUBE (Type 2)

NOTICE:

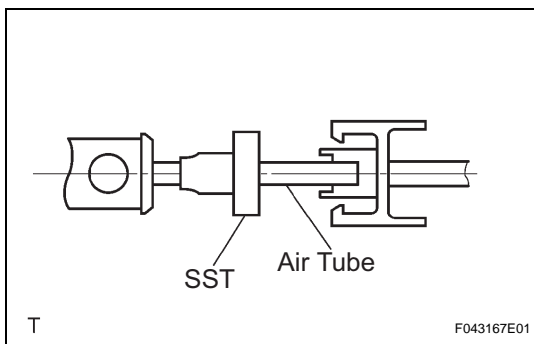
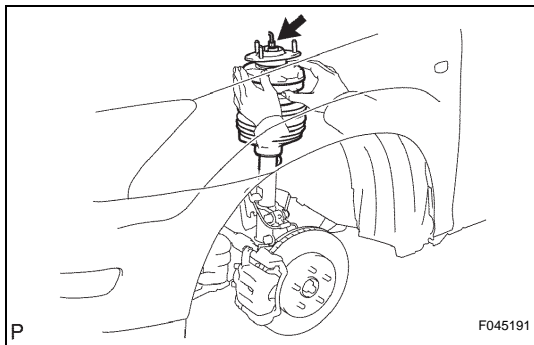
- Disconnecting and connecting the height control tube should be performed by hand to prevent dust or foreign objects from entering.
- Be careful not to damage the height control tube.

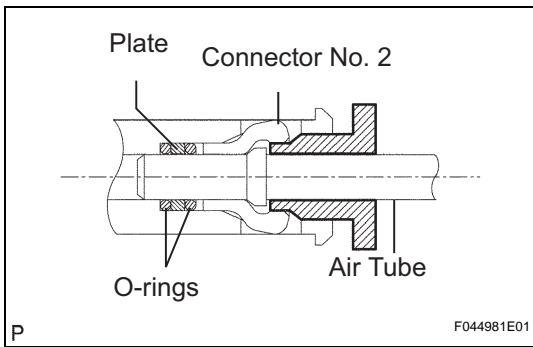
(a) Disconnect the height control tube.

- (1) Pinch "A" to release connector No. 1 and pull it out from the housing.

- (2) Set SST to the tube.

SST 09730-00010





- (3) Insert SST into the housing to expand the claw of plug or tube connector in the housing.
- (4) Pull out the tube with SST inserted.

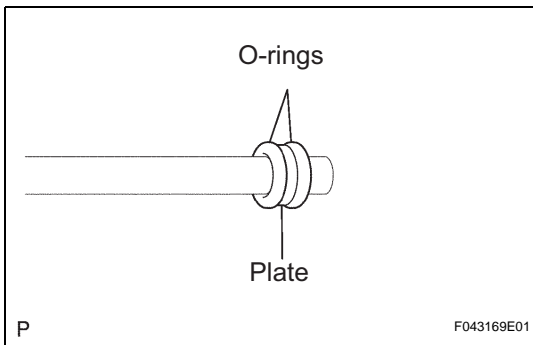
NOTICE:

Do not force the tube.

- (5) Insert a flat-head thin-blade screwdriver into the circular hole on the housing, and remove connector circular hole on the housing, and remove connector No. 2, the 2 O-rings and the plate from the housing.

HINT:

The O-ring, the plate and connector No. 2 are non-reusable parts.



- (b) Install the 2 O-rings and the plate.

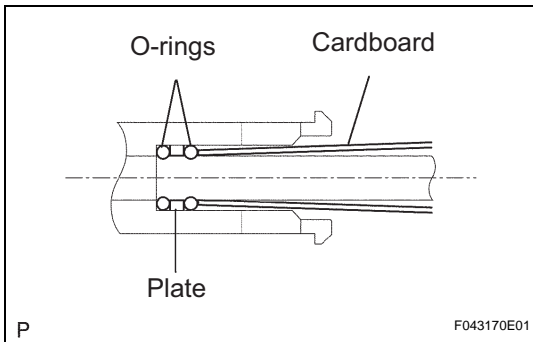
NOTICE:

When replacing the parts on which the tube to be installed with new ones, it is not necessary to perform the procedure for installation.

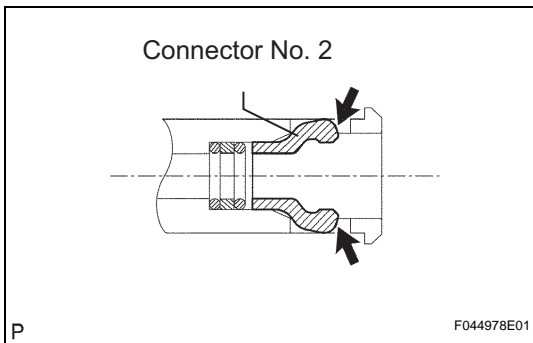
- (1) Apply MP grease to the 2 new O-rings and plate, and then install them to the straight tube or an equivalent.

NOTICE:

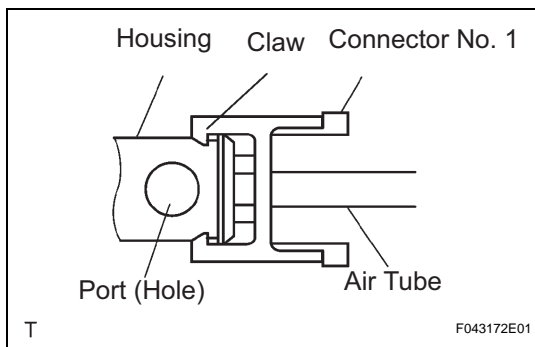
- **Install the plate between the O-rings.**
- **Air leaks may occur if dust or foreign objects come into contact with the O-rings.**



- (2) Insert the tube onto which the 2 O-rings and plate are installed into the housing, and then push them in lightly with rolled up cardboard.



- (3) Push connector No. 2 into the housing until a clicking sound is heard.



- (c) Install the height control tube.
 (1) Push the tube and connector No. 1 to the housing until a clicking sound is heard.

NOTICE:

- Turn the phase of the housing port from that of the connector No. 1 claw by 90°C when installing.
- Lightly pull on the tube to make sure that it is securely connected.

6. DISCONNECT AND CONNECT HEIGHT CONTROL TUBE (Type 3)

NOTICE:

- Disconnecting and connecting the height control tube should be performed by hand to prevent dust or foreign objects from entering.
- Be careful not to damage the height control tube.

- (a) Disconnect the height control tube.

- (1) Remove the holder.

- (2) Spread the clip and slowly pull the height control tube No. 2 straight out.

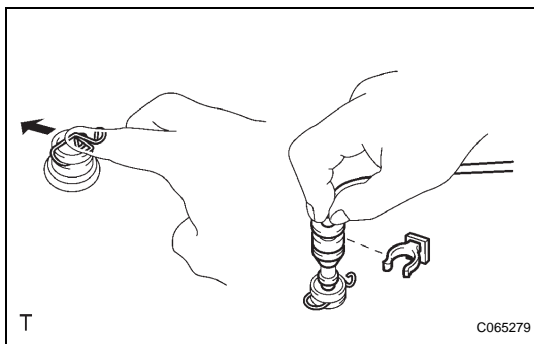
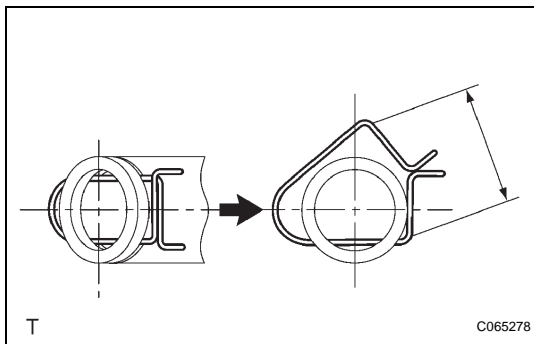
NOTICE:

Do not completely remove the clip except when replacing it.

- (3) Remove the 2 O-rings.

HINT:

Some tubes are equipped with only one O-ring.



- (b) Install the height control tube.

- (1) Hook one side of the new clip around the union groove, and slide the other side into the opposite side of the union groove.

- (2) Install 2 new O-rings to the height control tube and coat them with MP grease No. 2.

NOTICE:

Air leaks may occur if dust or foreign objects come into contact with the O-rings.

- (3) Connect the height control tube to the connector on the straight and securely until a click sound can be heard.

HINT:

Some tubes are equipped with only one O-ring.

NOTICE:

Connect the height control tube straight in order to prevent air leaks.

- (4) Install the height control tube to the holder being careful not to apply excessive force to the clip.