320QE–01

REPLACEMENT

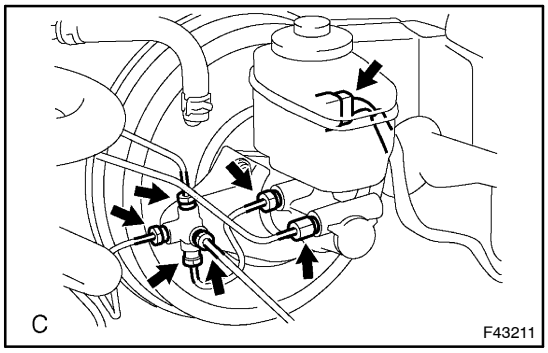
1. DRAIN BRAKE FLUID

NOTICE:

Wash the brake fluid off immediately if it comes into contact with any painted surface.

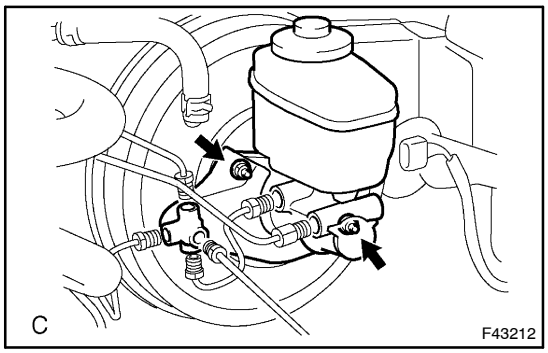
2. REMOVE BRAKE MASTER CYLINDER SUB–ASSY (LHD STEERING POSITION TYPE)

(a) M/T:
Slide the clip and disconnect the clutch reservoir tube from the brake master cylinder sub–assy.

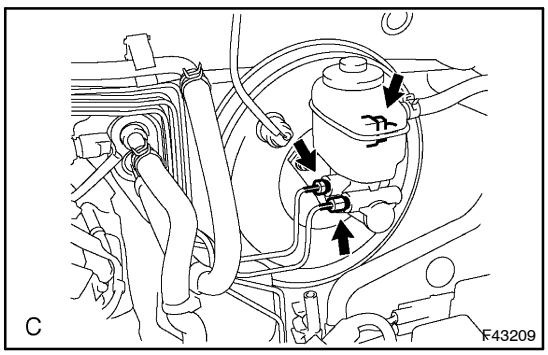


(b) w/o ABS:
Disconnect the brake fluid level warning switch connector.

(c) w/o ABS:
Using SST, disconnect the 6 brake lines from the brake master cylinder sub–assy and 4–way.
SST 09023–00100

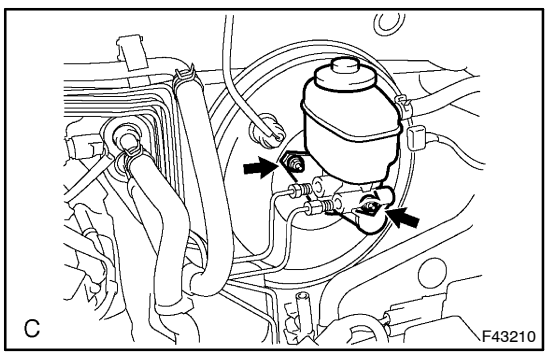


(d) w/o ABS:
Remove the 2 nuts, then pull out the brake master cylinder sub–assy and 4–way from the brake booster assy.



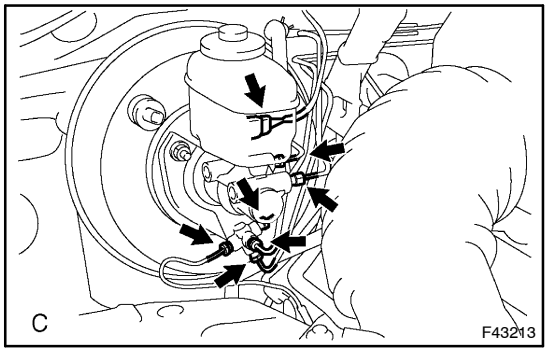
(e) w/ ABS:
Disconnect the brake fluid level warning switch connector.

(f) w/ ABS:
Using SST, disconnect the 2 brake lines from the brake master cylinder sub–assy.
SST 09023–00100



(g) w/ ABS:
Remove the 2 nuts, then pull out the brake master cylinder sub–assy from the brake booster assy.

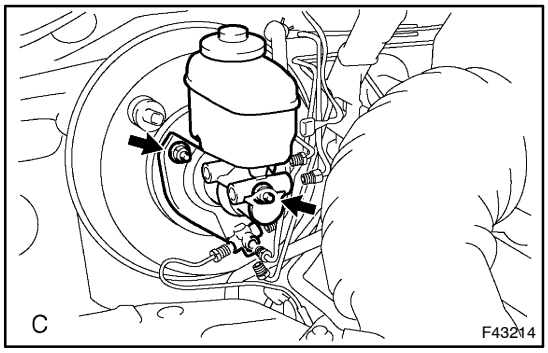
(h) Remove the O–ring from the brake master cylinder sub–assy.



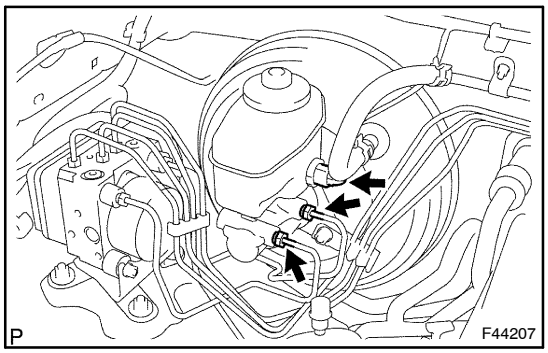
3. REMOVE BRAKE MASTER CYLINDER SUB–ASSY (RHD STEERING POSITION TYPE)

(a) w/o ABS:
Disconnect the brake fluid level warning switch connector.

(b) w/o ABS:
Using SST, disconnect the 6 brake lines from the brake master cylinder sub–assy and 4–way.
SST 09023–00100



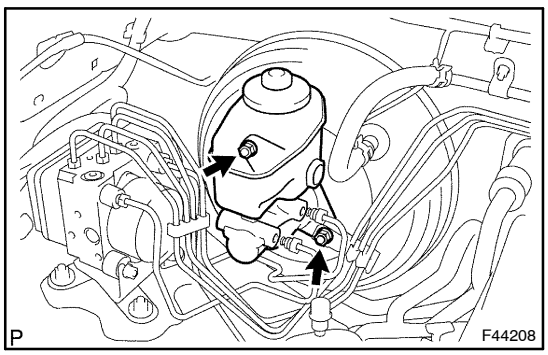
(c) w/o ABS:
Remove the 2 nuts, then pull out the brake master cylinder sub–assy and 4–way from the brake booster assy.



(d) w/ ABS:
Disconnect the brake fluid level warning switch connector.

(e) w/ ABS:
Using SST, disconnect the 2 brake lines from the brake master cylinder sub–assy.
SST 09023–00100

(f) w/ ABS:
Disconnect the 3 brake lines from the tube clamp.



(g) w/ ABS:
Remove the 2 nuts, then pull out the brake master cylinder sub–assy from the brake booster assy.

(h) Remove the O–ring from the brake master cylinder sub–assy.

4. INSPECT AND ADJUST BRAKE BOOSTER PUSH ROD

NOTICE:

Make an adjustment with the brake booster assy having no vacuum. (Depress the brake pedal several times with the engine stopped.)

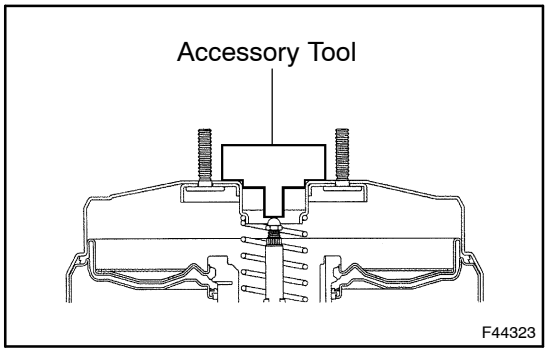
HINT:

Adjustment of the brake booster push rod is performed when the brake master cylinder sub–assy is replaced with a new one. The adjustment is not necessary when the brake master cylinder sub–assy is reinstalled and the brake booster assy is replaced with a new one.

(a) Apply the chalk to the tip of an accessory tool.

HINT:

An accessory tool is enclosed with new brake master cylinder sub–assy.



(b) Place the accessory tool to the brake booster assy.

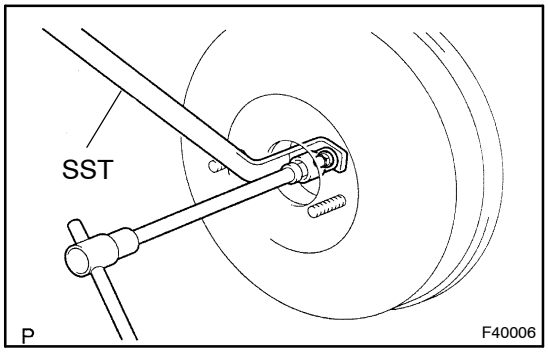
(c) Measure the clearance between the brake booster push rod and accessory tool.

Clearance: 0 mm (0 in.)

HINT:

Adjust the clearance in following cases:

- If there is a clearance between the accessory tool and the shell of the brake booster (floating accessory tool), the clearance is too small.
- If the chalk does not stick on the tip of the brake booster push rod, the clearance is large.



(d) If clearance is outside of the specified range, fix the push rod using SST and adjust the length of the protruding adjusting bolt.

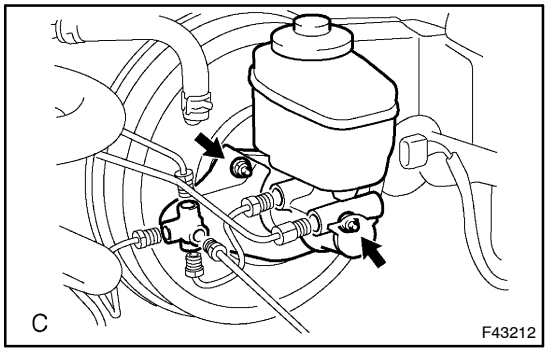
SST 09737–00020

HINT:

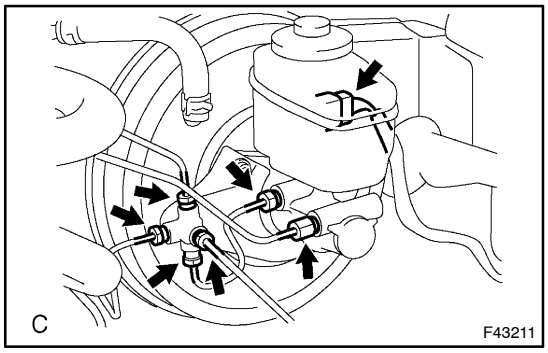
When adjusting the push rod, depress the brake pedal sufficiently so that the push rod sticks out.

5. INSTALL BRAKE MASTER CYLINDER SUB–ASSY (LHD STEERING POSITION TYPE)

(a) Install the new O–ring to the brake master cylinder sub–assy.

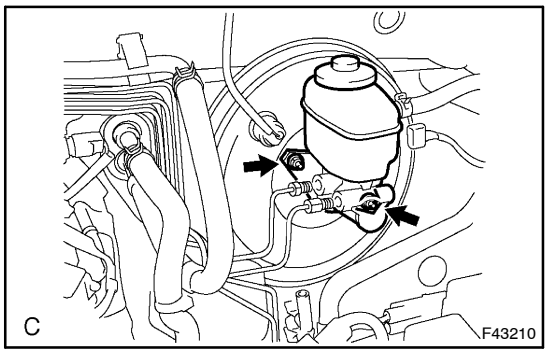


(b) w/o ABS:
Install the brake master cylinder sub–assy and 4–way with the 2 nuts to the brake booster assy.
Torque: 12.5 N·m (127 kgf·cm, 9 ft·lbf)

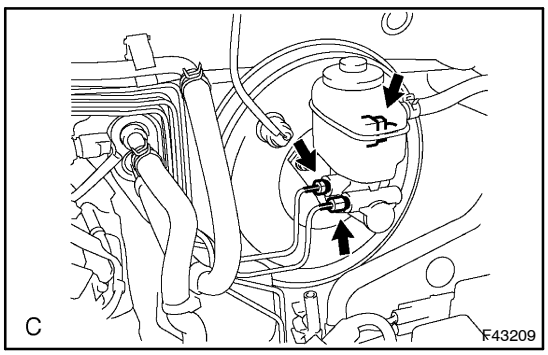


(c) w/o ABS:
Using SST, connect the 6 brake lines to the brake master cylinder sub–assy and 4–way.
SST 09023–00100
Torque: 15.2 N·m (155 kgf·cm, 11 ft·lbf)

(d) w/o ABS:
Connect the brake fluid level warning switch connector to the brake master cylinder sub–assy.



(e) w/ ABS:
Install the brake master cylinder sub–assy with the 2 nuts to the brake booster assy.
Torque: 12.5 N·m (127 kgf·cm, 9 ft·lbf)



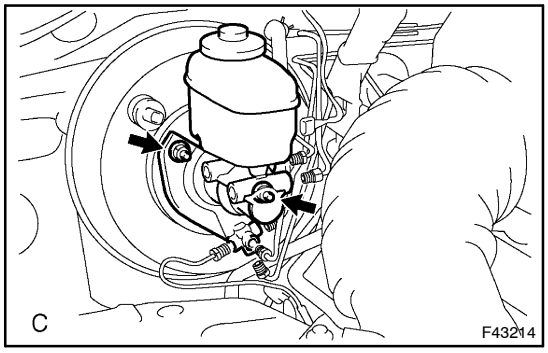
(f) w/ ABS:
Using SST, connect the 2 brake lines to the brake master cylinder sub–assy.
SST 09023–00100
Torque: 15.2 N·m (155 kgf·cm, 11 ft·lbf)

(g) w/ ABS:
Connect the brake fluid level warning switch connector to the brake master cylinder sub–assy.

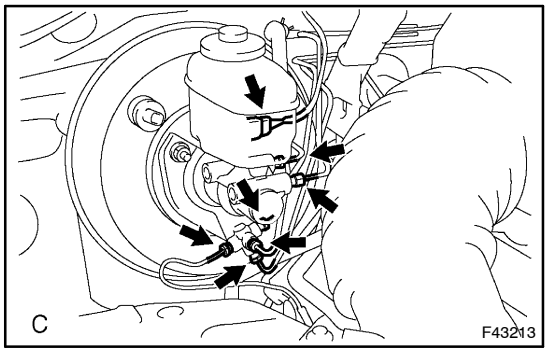
(h) M/T:
Connect the clutch reservoir tube to the brake master cylinder sub–assy.

6. INSTALL BRAKE MASTER CYLINDER SUB–ASSY (RHD STEERING POSITION TYPE)

(a) Install the new O–ring to the brake master cylinder sub–assy.

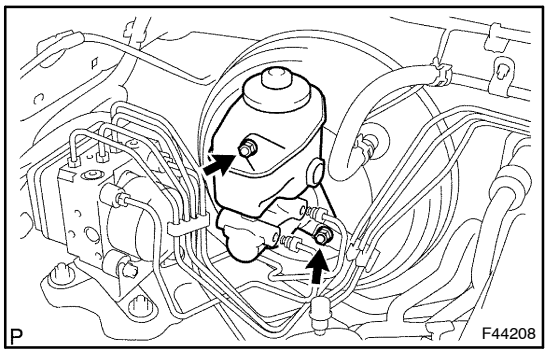


(b) w/o ABS:
Install the brake master cylinder sub–assy and 4–way with the 2 nuts to the brake booster assy.
Torque: 12.5 N·m (127 kgf·cm, 9 ft·lbf)



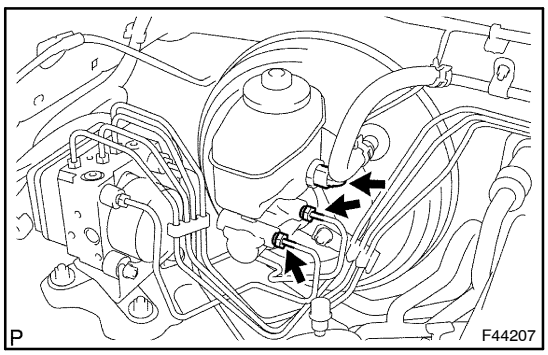
(c) w/o ABS:
Using SST, connect the 6 brake lines to the brake master cylinder sub–assy and 4–way.
SST 09023–00100
Torque: 15.2 N·m (155 kgf·cm, 11 ft·lbf)

(d) w/o ABS:
Connect the brake fluid level warning switch connector to the brake master cylinder sub–assy.



(e) w/ ABS:
Install the brake master cylinder sub–assy and tube clamp with the 2 nuts to the brake booster assy.
Torque: 12.5 N·m (127 kgf·cm, 9 ft·lbf)

(f) Connect the 3 brake lines to the tube clamp.



(g) w/ ABS:
Using SST, connect the 2 brake lines to the brake master cylinder sub–assy.
SST 09023–00100
Torque: 15.2 N·m (155 kgf·cm, 11 ft·lbf)

(h) w/ ABS:
Connect the brake fluid level warning switch connector to the brake master cylinder sub–assy.

7. BLEED BRAKE LINE (See page 32–4)
8. INSPECT BRAKE PEDAL HEIGHT (See page 32–10)
9. CHECK PEDAL FREE PLAY (See page 32–10)
10. CHECK PEDAL RESERVE DISTANCE (See page 32–10)
11. CHECK FLUID LEVEL IN RESERVOIR
12. CHECK BRAKE FLUID LEAKAGE