320J0-01

## **OVERHAUL**

## 1. DRAIN BRAKE FLUID

#### **NOTICE:**

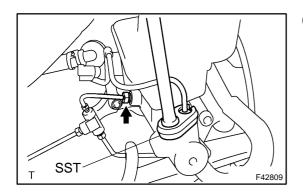
Wash the brake fluid off immediately if it comes into contact with any painted surface.

## 2. REMOVE AIR CLEANER CAP SUB-ASSY

#### 3. REMOVE BRAKE MASTER CYLINDER SUB-ASSY

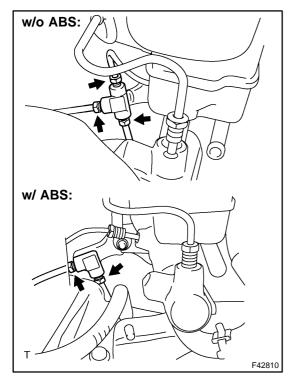
- (a) Disconnect the brake fluid level switch connector from the master cylinder reservoir sub–assy.
- (b) M/T:

Slide the clip and disconnect the clutch reservoir tube No.1.



(c) Using SST, disconnect the 2 brake tubes from the master cylinder.

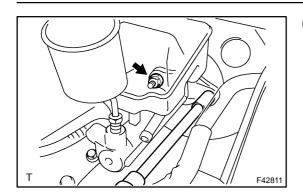
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(d) Using SST, disconnect the 2 or 3 brake tubes from the No.1 way.

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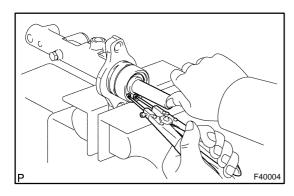
(e) Remove the 2 nuts, and pull out the master cylinder, No.1 way and vacuum check valve bracket.

#### 4. REMOVE BRAKE MASTER CYLINDER RESERVOIR SUB-ASSY

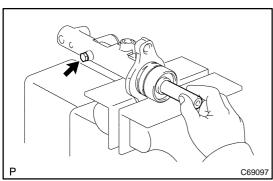
- (a) Remove the reservoir stopper screw and master cylinder reservoir sub-assy.
- (b) Remove the 2 cylinder reservoir grommets.

## 5. REMOVE BRAKE MASTER CYLINDER KIT

- (a) Hold the master cylinder in the vise with the 2 aluminum plates in between.
- (b) Remove the O-ring.



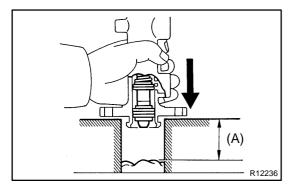
(c) Push in the piston and remove the snap ring with snap ring pliers.



- (d) Push in the piston and remove the piston stopper bolt and gasket.
- (e) Remove the No.1 piston sub-assy by hand, pulling straight out not at an angle.

#### **NOTICE:**

If being pulled out at an angle, the piston may damage the cylinder bore.



(f) Place a cloth and 2 wooden blocks on the work table and lightly edges until the No.2 piston sub–assy drops out of the cylinder.

#### **NOTICE:**

If being pulled out at an angle, the piston may damage the cylinder bore.

#### HINT:

Make sure that the distance (A) from the cloth to the top of the blocks is at least 100 mm (3.94 in.).

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#### 6. INSPECT BRAKE MASTER CYLINDER

(a) Check the cylinder bore for rust or scoring.

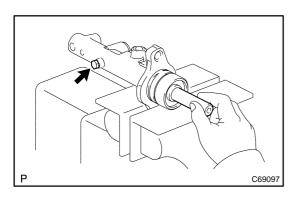
#### 7. INSTALL BRAKE MASTER CYLINDER KIT

- (a) Hold the master cylinder in the vise with the 2 aluminum plates in between.
- (b) Apply the lithium soap base glycol grease to the No.1 and No.2 piston sub–assy.
- (c) Install the No.2 and No.1 piston sub–assy to the master cylinder.

#### NOTICE:

- If being inserted at an angle, the piston may damage the cylinder bore.
- Be careful not to damage the rubber lips on the pistons.
- (d) Push in the piston and install a new gasket and a new piston stopper bolt.

Torque: 10 N m (102 kgf cm, 7 ft lbf)

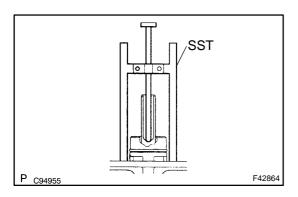


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- (e) Push in the piston and install the snap ring with snap ring pliers.
- (f) Apply the lithium soap base glycol grease to a new O-ring, and install the O-ring to the master cylinder.

#### 8. INSTALL BRAKE MASTER CYLINDER RESERVOIR SUB-ASSY

- (a) Apply the lithium soap base glycol grease to 2 brake master cylinder reservoir grommets.
- (b) Install the master cylinder reservoir with the screw.

Torque: 1.8 N·m (18.4 kgf cm, 15.9 in. lbf)

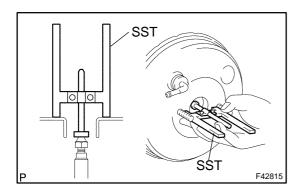


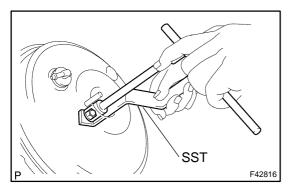
# 9. INSPECT AND ADJUST BRAKE BOOSTER PUSH ROD

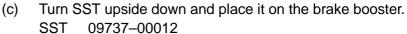
- (a) Apply the chalk to the flat surfaced tip of the SST pin.
- (b) Set SST on the master cylinder and lower the pin of the SST until it slightly touches the piston.

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Clearance: 0 mm (0 in.)

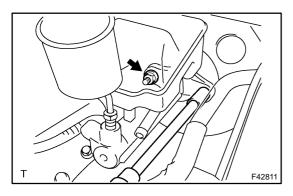
#### HINT:

- If there is a space between the SST main body and the booster shell (chalk is applied to the booster push rod), it means that the clearance is too small.
- If chalk is not applied to the booster push rod after placing the SST on the brake booster, it means that the clearance is too 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:

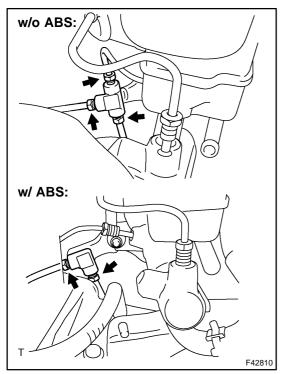
When adjusting the push rod, depress the brake pedal sufficiently so that the push rod sticks out.



## 10. INSTALL BRAKE MASTER CYLINDER SUB-ASSY

(a) Install the master cylinder, No.1 way and vacuum check valve bracket with the 2 nuts.

Torque: 12.5 N·m (127 kgf·cm, 9 ft·lbf)

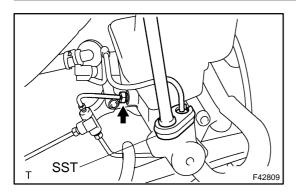


(b) Using SST, connect the 2 or 3 brake tubes to the No.1 way.

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Torque: 15.2 N·m (155 kgf·cm, 11 ft·lbf)

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(c) Using SST, connect the 2 brake tubes to the master cylinder.

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Torque: 15.2 N·m (155 kgf·cm, 11 ft·lbf)

- (d) M/T:
  - Connect the clutch reservoir tube No.1 to the master cylinder reservoir sub-assy with the clip.
- (e) Connect the brake fluid level switch connector to the master cylinder reservoir sub–assy.
- 11. INSTALL AIR CLEANER CAP SUB-ASSY
- 12. FILL RESERVOIR WITH BRAKE FLUID
- 13. BLEED MASTER CYLINDER (See page 32-6) SST 09023-00100
- 14. BLEED BRAKE LINE (See page 32-6)
- 15. CHECK FLUID LEVEL IN RESERVOIR
- 16. CHECK BRAKE FLUID LEAKAGE