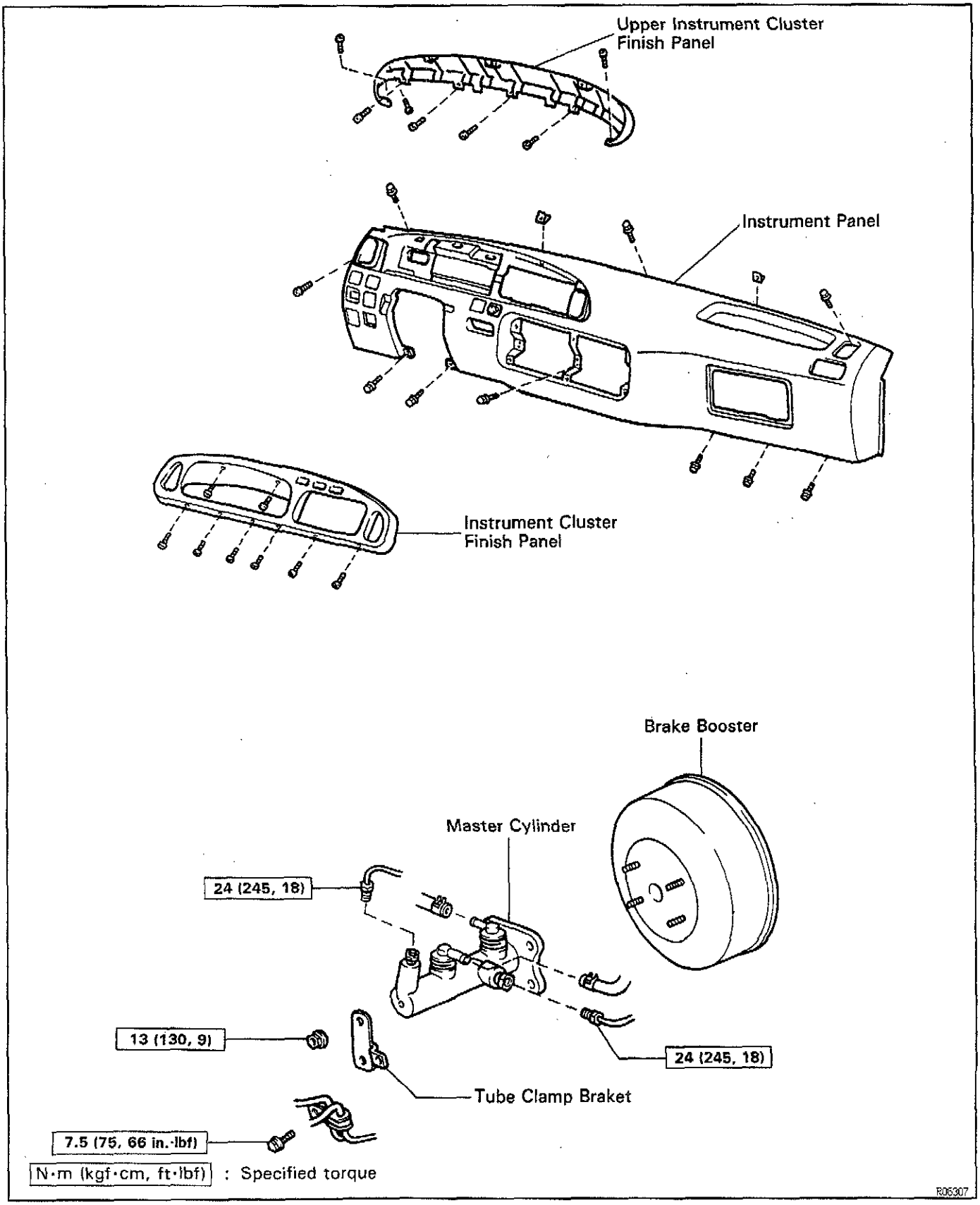
MASTER CYLINDER

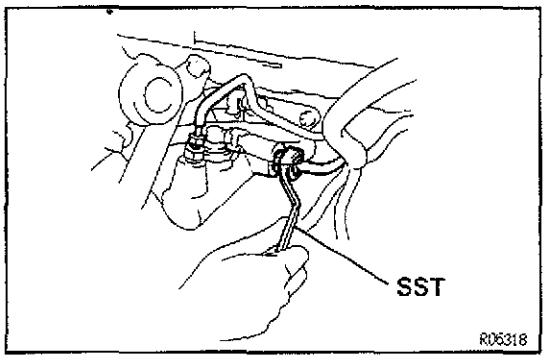
BR0KE-01

MASTER CYLINDER REMOVAL

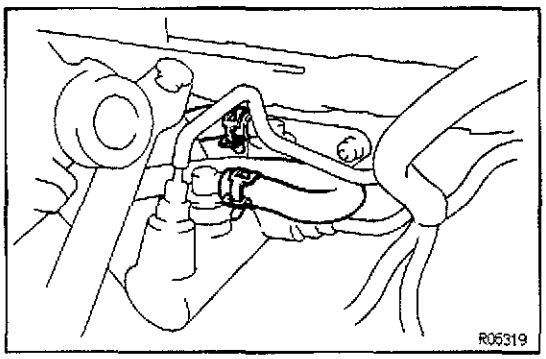


R06307

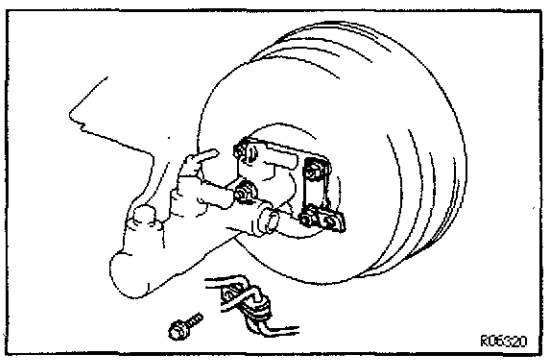
1. **DISCONNECT NEGATIVE CABLE FROM BATTERY TERMINAL**
2. **REMOVE INSTRUMENT PANEL**
   (See page BO–71)
3. **DRAW OUT FLUID WITH SYRINGE**
   NOTICE: Do not let brake fluid remain on a painted surface. Wash it off immediately.



4. **DISCONNECT BRAKE LINES**
   Using SST, disconnect 2 brake lines from the master cylinder.
   SST 09751–36011



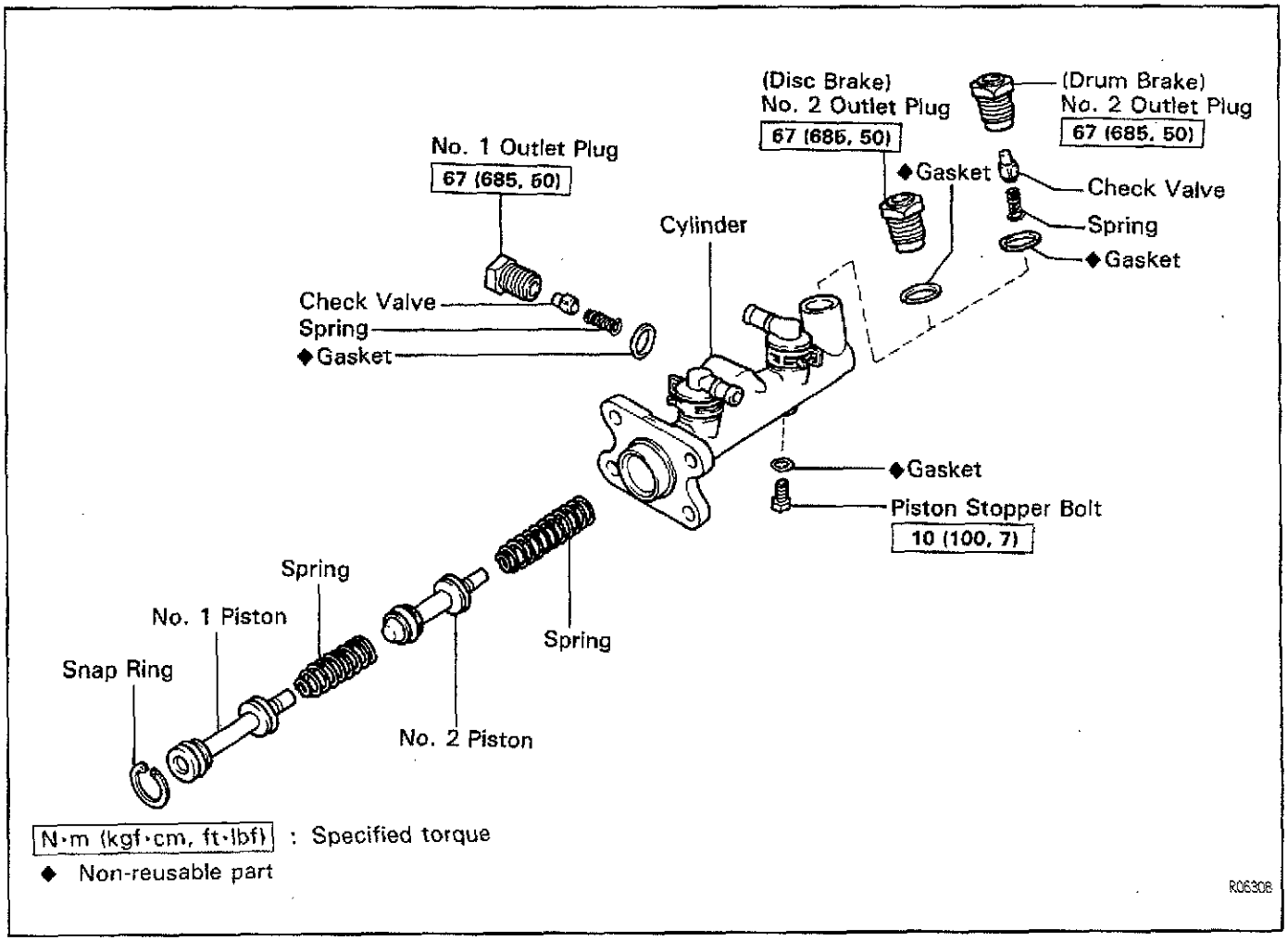
5. **DISCONNECT 2 RESERVOIR HOSES FROM MASTER CYLINDER**

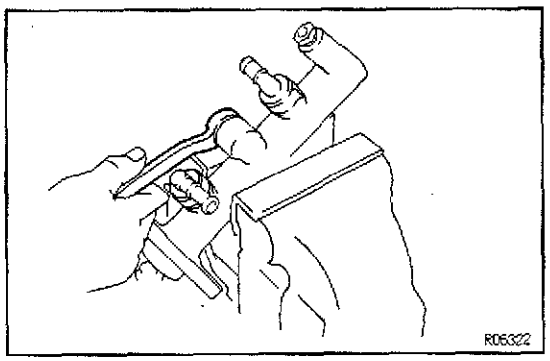


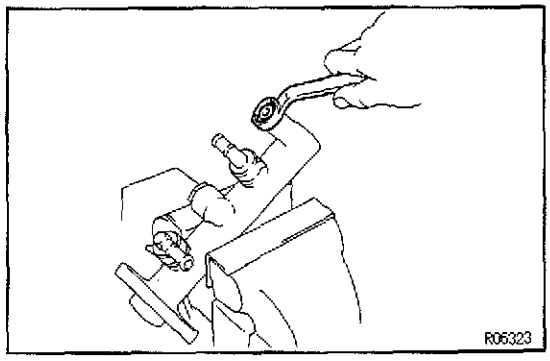
6. **REMOVE BRAKE LINE FROM TUBE CLAMP BRACKET**
   Remove the bolt and 2 brake lines from the tube clamp bracket.
7. **REMOVE MASTER CYLINDER**
   Remove the 4 mounting nuts and tube clamp bracket, and pull out the master cylinder.

BR0KF-01

COMPONENTS





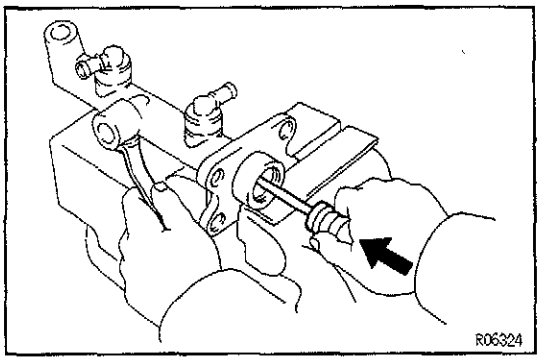


BR0KG-01

MASTER CYLINDER DISASSEMBLY

NOTICE: Do not remove the inlet union from the cylinder.

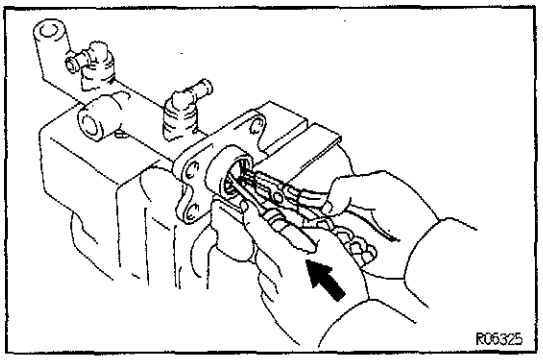
1. **PLACE CYLINDER IN VISE**
2. **REMOVE NO.1 OUTLET PLUG**
   Remove the No.1 outlet plug, check valve, spring and gasket.
3. **REMOVE NO.2 OUTLET PLUG**
   (Front Drum Brake)
   Remove the No.2 outlet plug, check valve, spring and gasket.
   (Front Disc Brake)
   Remove the No.2 outlet plug and gasket.



4. REMOVE PISTON STOPPER BOLT

Using a screwdriver, push the pistons in all the way and remove the piston stopper bolt.

HINT: Tape the screwdriver tip before use.

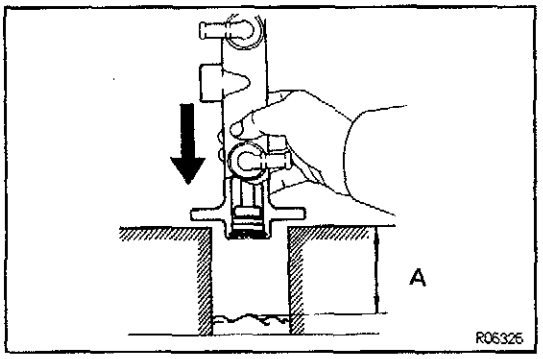


5. REMOVE 2 PISTONS

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

(b) Remove the No.1 piston and spring by hand, pulling straight out, not at an angle.

NOTICE: If pulled out at an angle, there is a possibility that the cylinder bore could be damaged.



(c) *Place a rag and 2 wooden blocks on the work table* and lightly tap the cylinder flange against the block *edges until the piston drops out of the cylinder.*

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

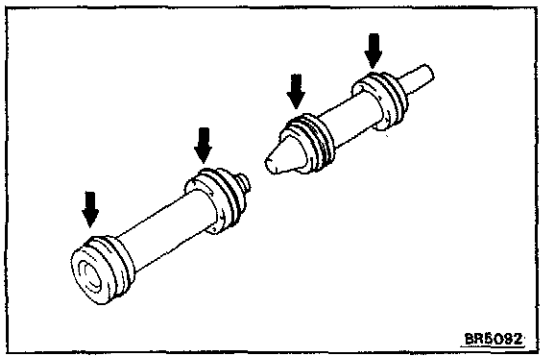
BR0KH-01

MASTER CYLINDER COMPONENTS INSPECTION

HINT: Clean the disassembled parts with compressed air.

1. **INSPECT CYLINDER BORE FOR RUST OR SCORING**
2. **INSPECT CYLINDER FOR WEAR OR DAMAGE**

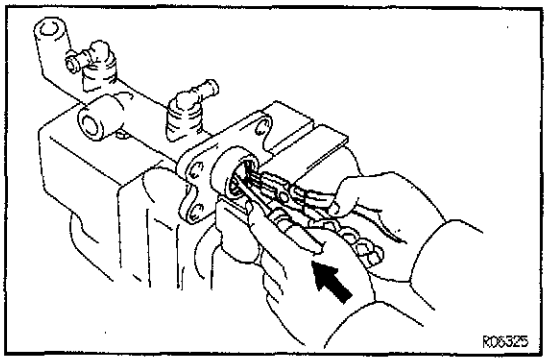
If necessary, clean or replace the cylinder.



BR0KJ-01

MASTER CYLINDER ASSEMBLY

1. **APPLY LITHIUM SOAP BASE GLYCOL GREASE TO RUBBER PARTS OF PISTONS**



2. INSTALL SPRINGS AND PISTONS

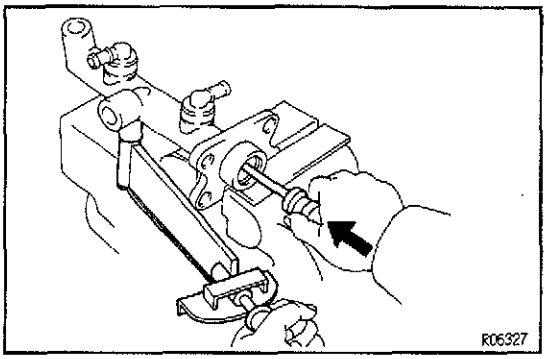
NOTICE: Be careful not to damage the rubber lips on the pistons.

(a) Insert the 2 pistons and springs straight in, not at an angle.

NOTICE: If inserted at an angle, there is a possibility of damaging the cylinder bore.

(b) Push in the piston with a screwdriver and install the snap ring with snap ring pliers.

HINT: Tape the screwdriver tip before use.

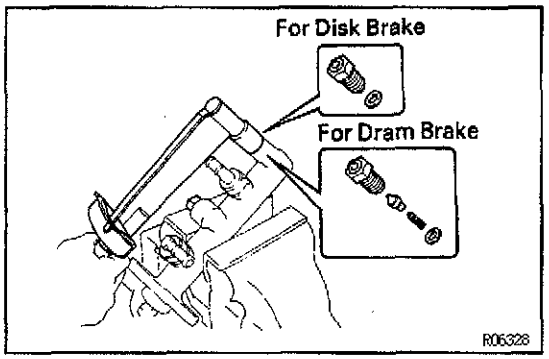


3. INSTALL PISTON STOPPER BOLT

Using a screwdriver, push the pistons in all the way and install the piston stopper bolt over a new gasket. Torque the bolt.

Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)

BR



4. INSTALL NO.2 OUTLET PLUG

(Front Drum Brake)

(a) Assemble the check valve and spring to the outlet plug.

(b) Install a new gasket and the outlet plug assembly.

Torque: 67 N·m (685 kgf·cm, 50 ft·lbf)

(Front Disc Brake)

Install the outlet plug and a new gasket.

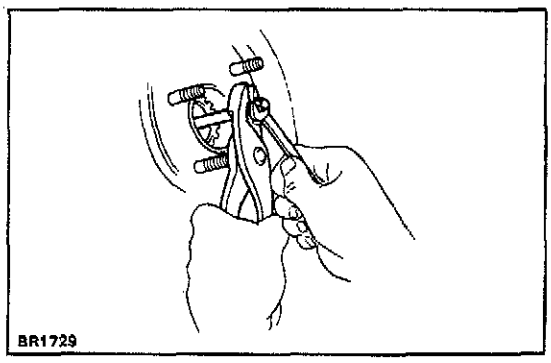
Torque: 67 N·m (685 kgf·cm, 50 ft·lbf)

5. INSTALL NO.1 OUTLET PLUG

(a) Assemble the check valve and spring to the outlet plug.

(b) Install the outlet plug assembly and a new gasket.

Torque: 67 N·m (685 kgf·cm, 50 ft·lbf)

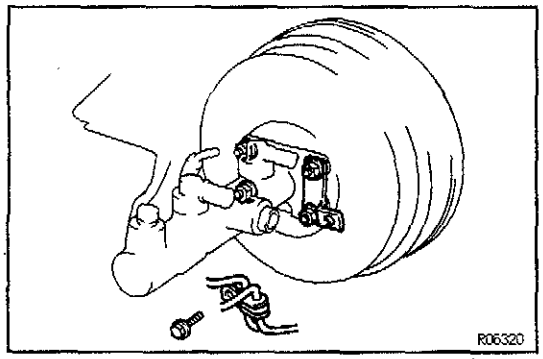


MASTER CYLINDER INSTALLATION

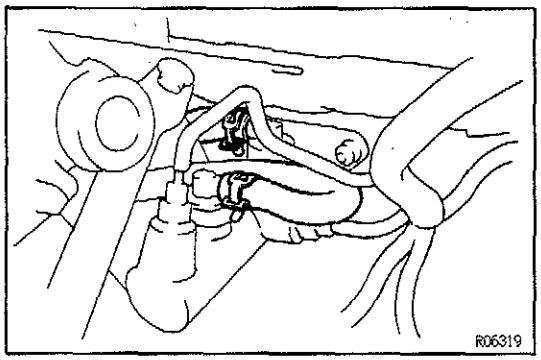
BR0KX-01

1. ADJUST LENGTH OF BRAKE BOOSTER PUSH ROD BEFORE INSTALLING MASTER CYLINDER

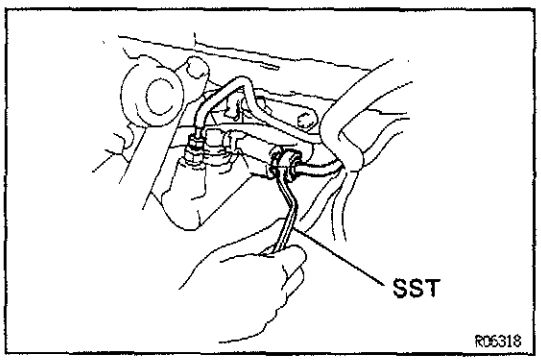
(See page BR–19)



2. **INSTALL MASTER CYLINDER**
Install the master cylinder and tube clamp bracket with 4 nuts. Torque the nuts.
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)
3. **INSTALL BRAKE LINE TO TUBE CLAMP BRACKET**



4. **CONNECT 2 RESERVOIR HOSES TO MASTER CYLINDER**



5. **CONNECT 2 BRAKE LINES**
Using SST, connect the brake lines to the master cylinder. Torque the union nuts.
SST 09751–36011
Torque: 24 N·m (245 kgf·cm, 18 ft·lbf)
6. **INSTALL INSTRUMENT PANEL**
(See page BO–71)
7. **FILL BRAKE RESERVOIR WITH BRAKE FLUID AND BLEED BRAKE SYSTEM**
(See page BR–9)
8. **CHECK FOR FLUID LEAKAGE**
9. **CHECK AND ADJUST BRAKE PEDAL**
(See page BR–7)