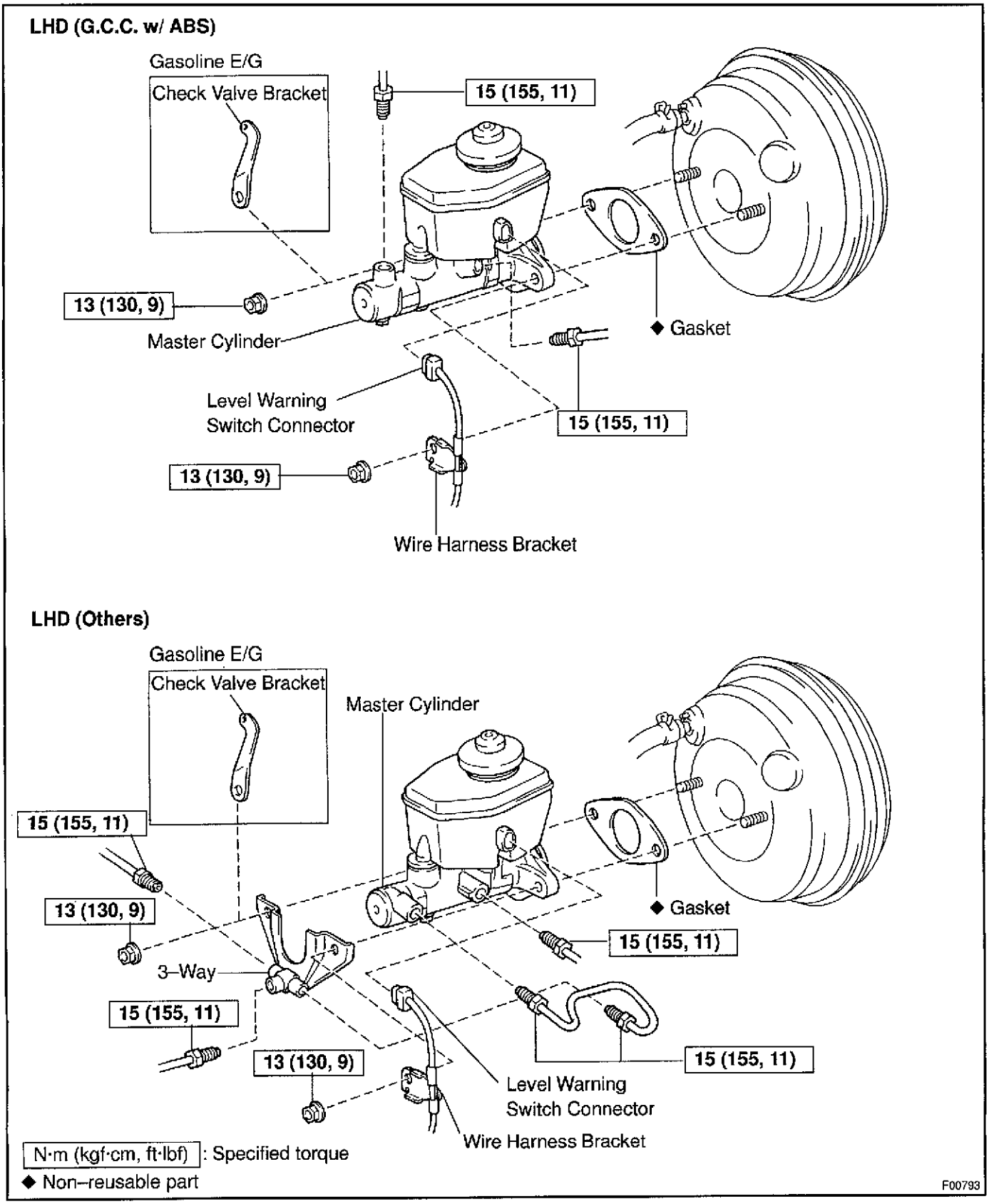
BRAKE MASTER CYLINDER

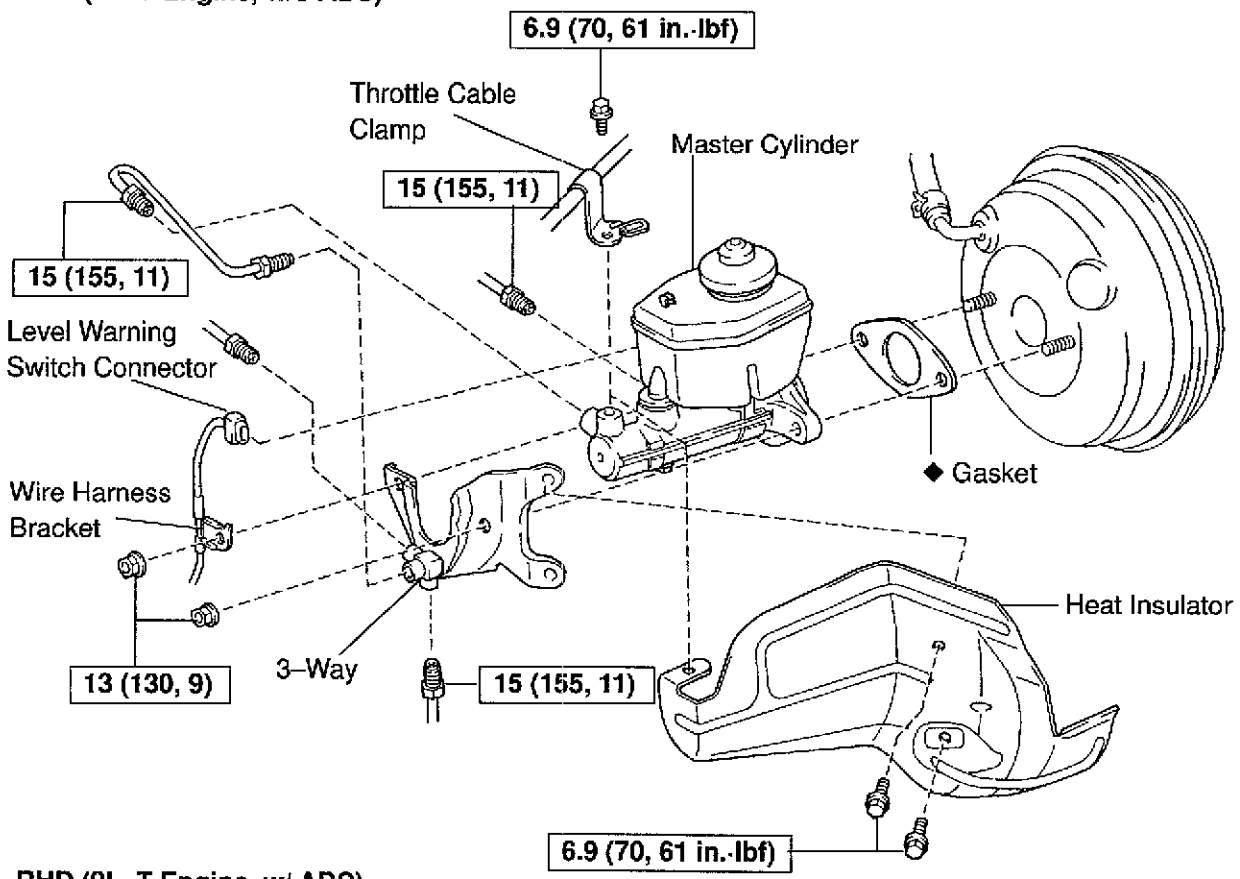
COMPONENTS

BR0EL–01

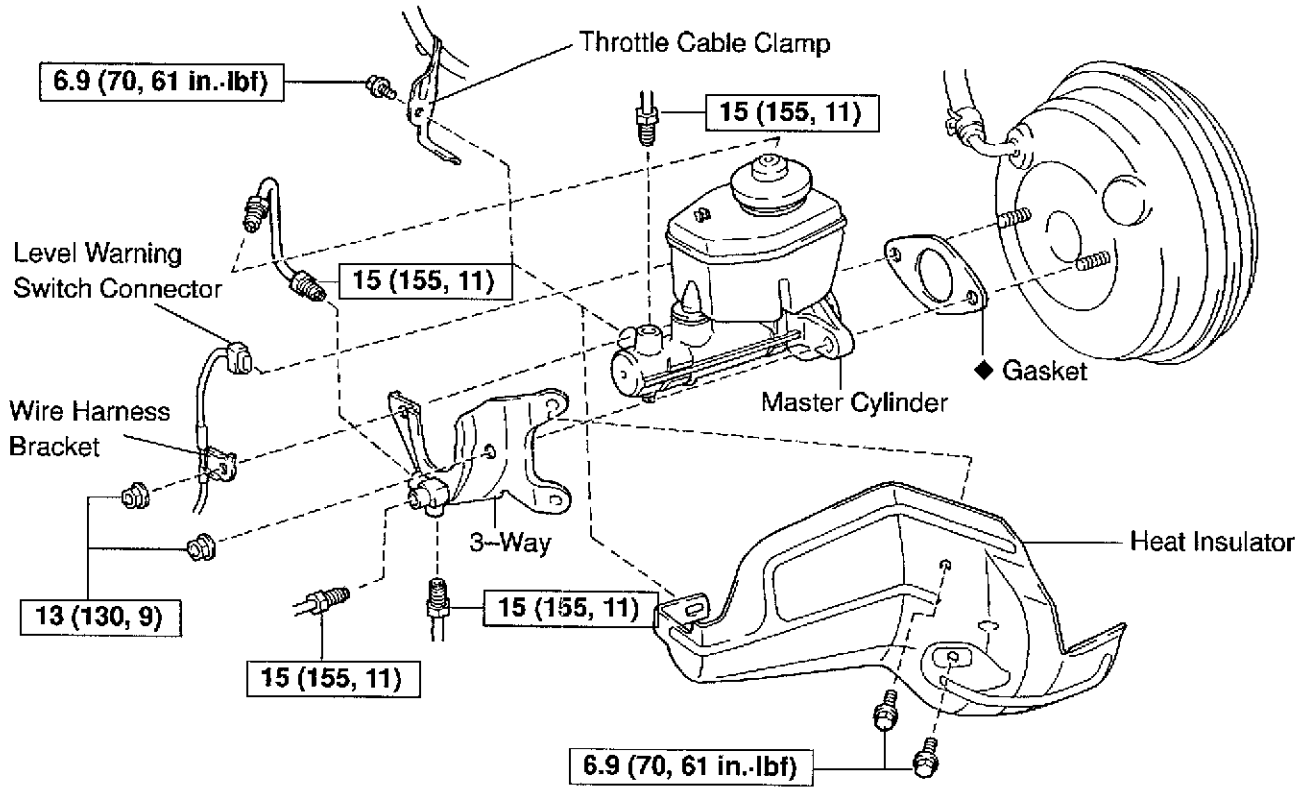


BR

RHD (2L–T Engine, w/o ABS)



RHD (2L–T Engine, w/ ABS)

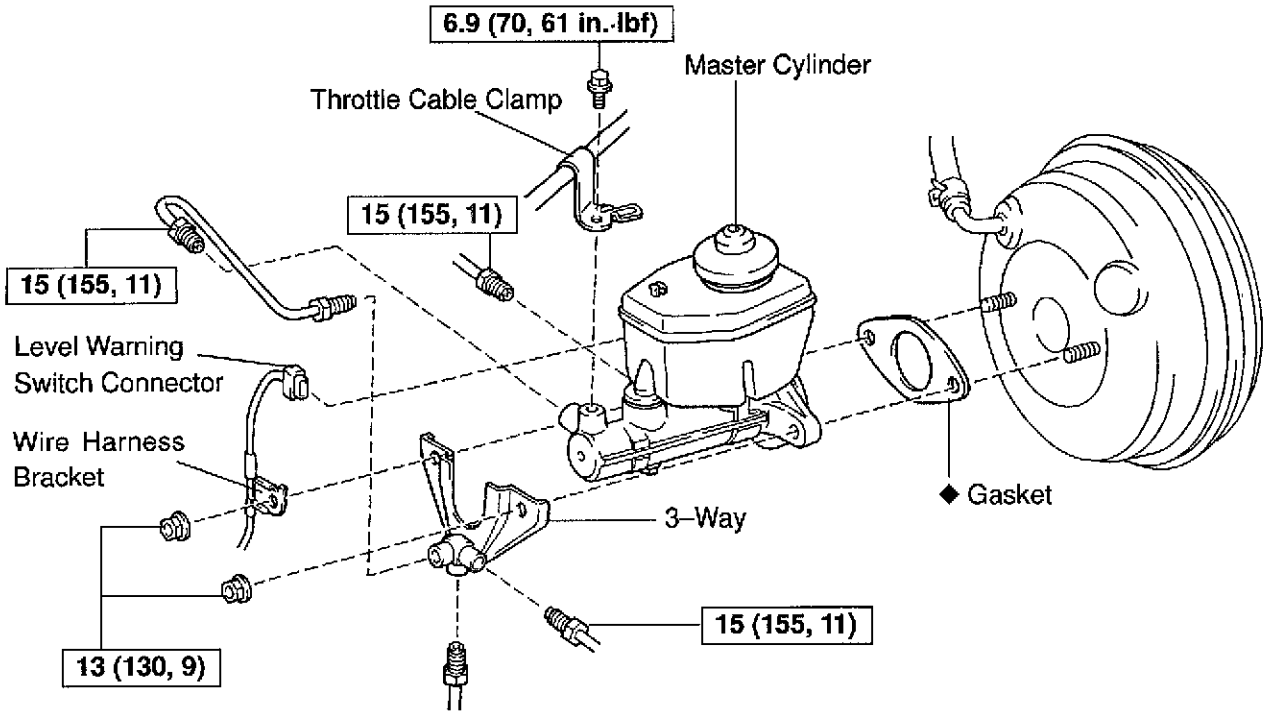


N·m (kgf·cm, ft·lbf) : Specified torque

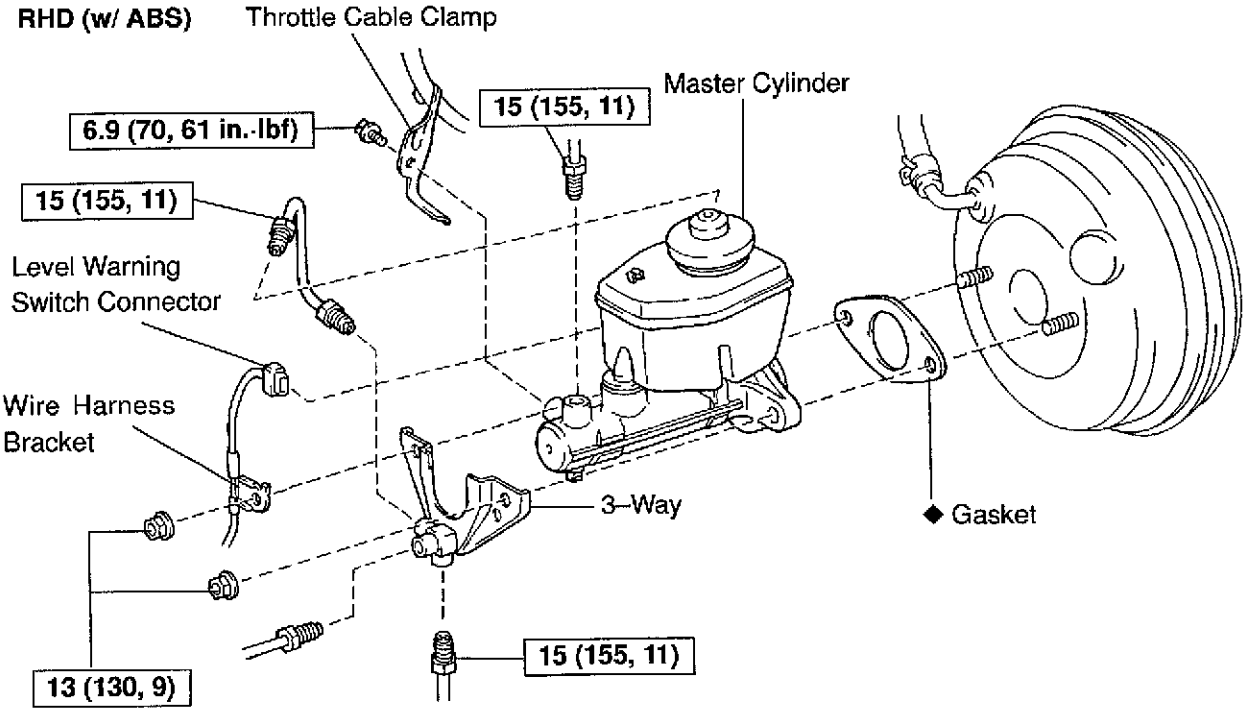
◆ Non–reusable part

F00794

RHD (w/o ABS)



RHD (w/ ABS)

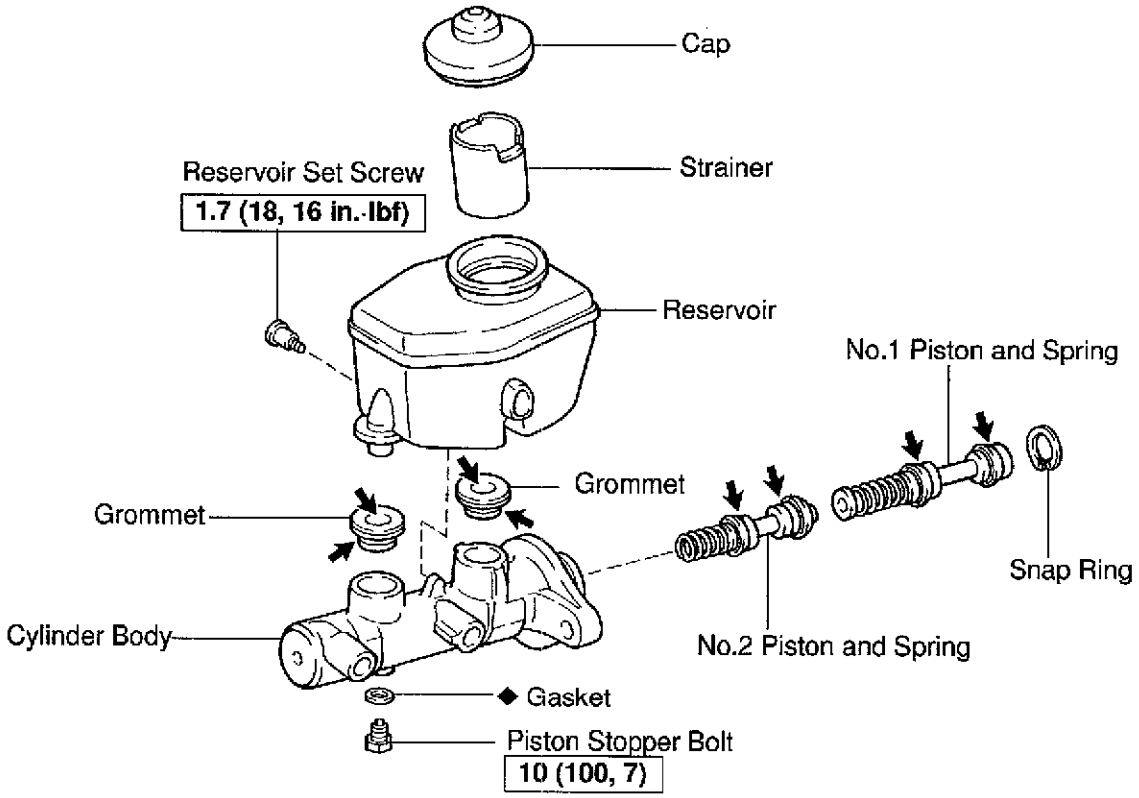


N·m (kgf·cm, ft·lbf) : Specified torque

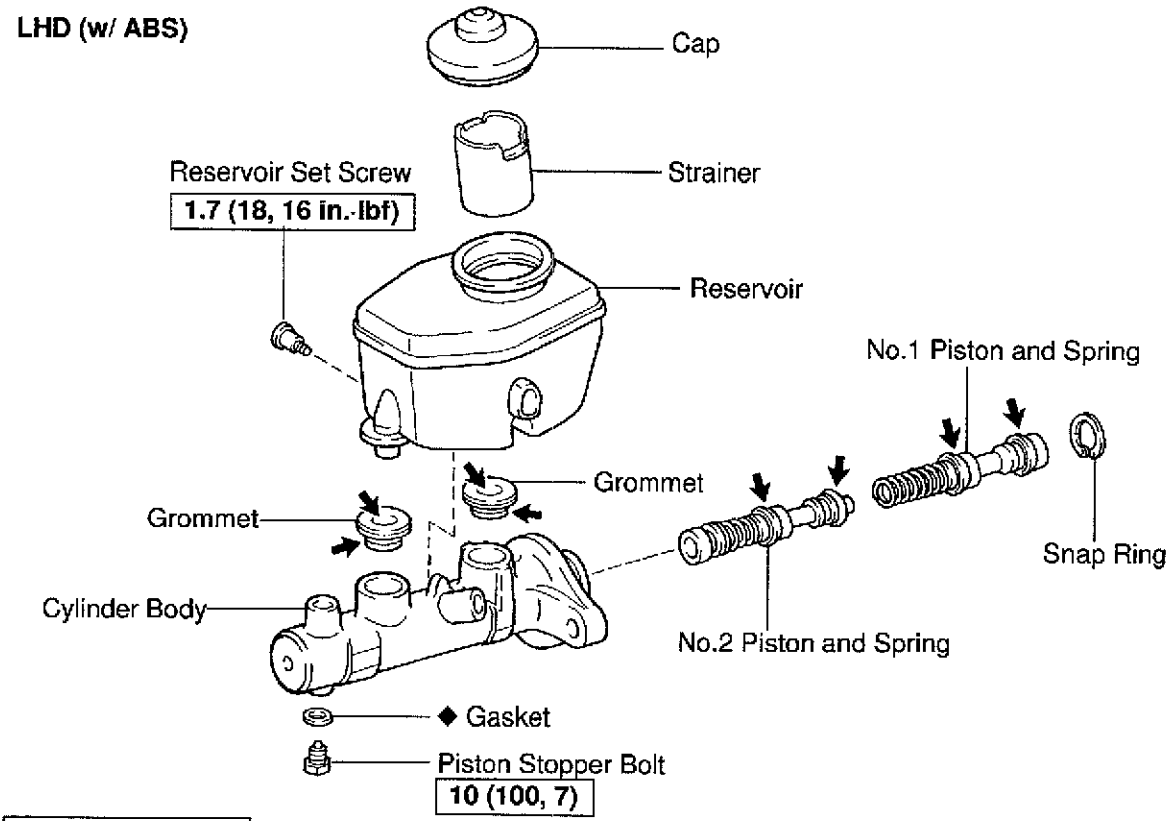
◆ Non–reusable part

F00795

LHD (w/o ABS)



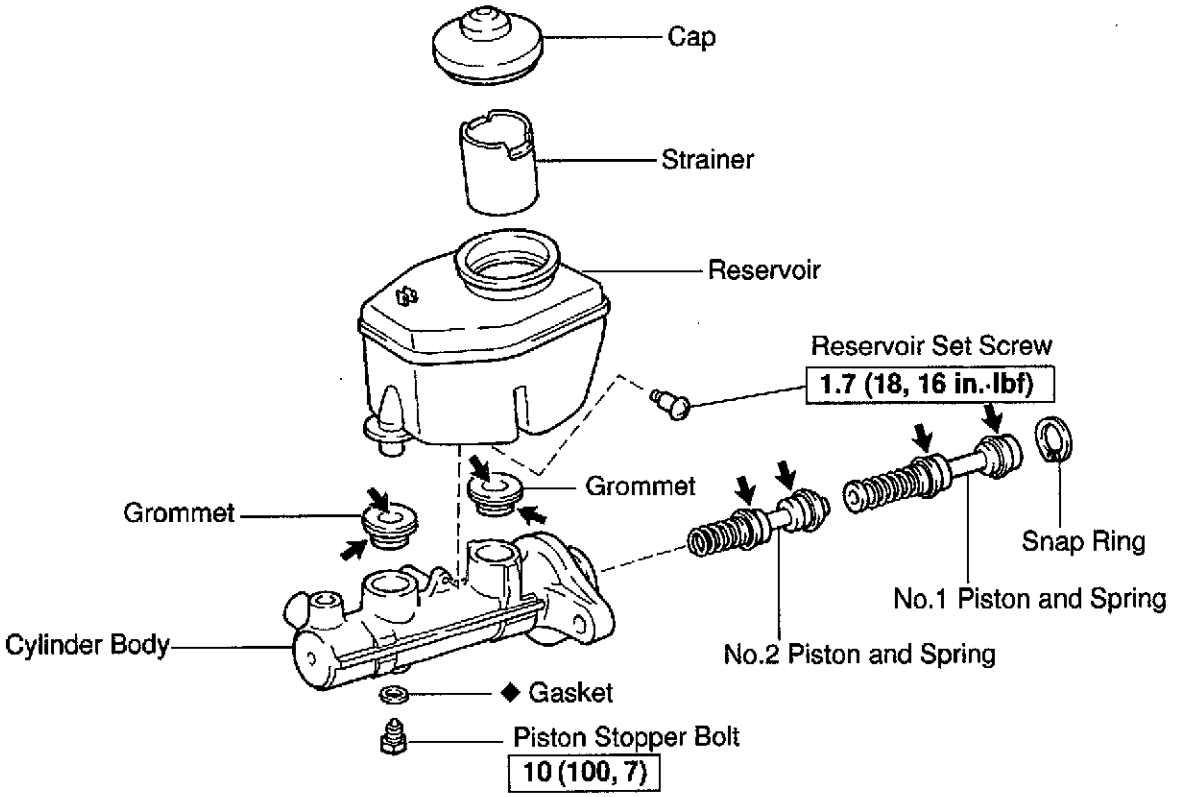
LHD (w/ ABS)



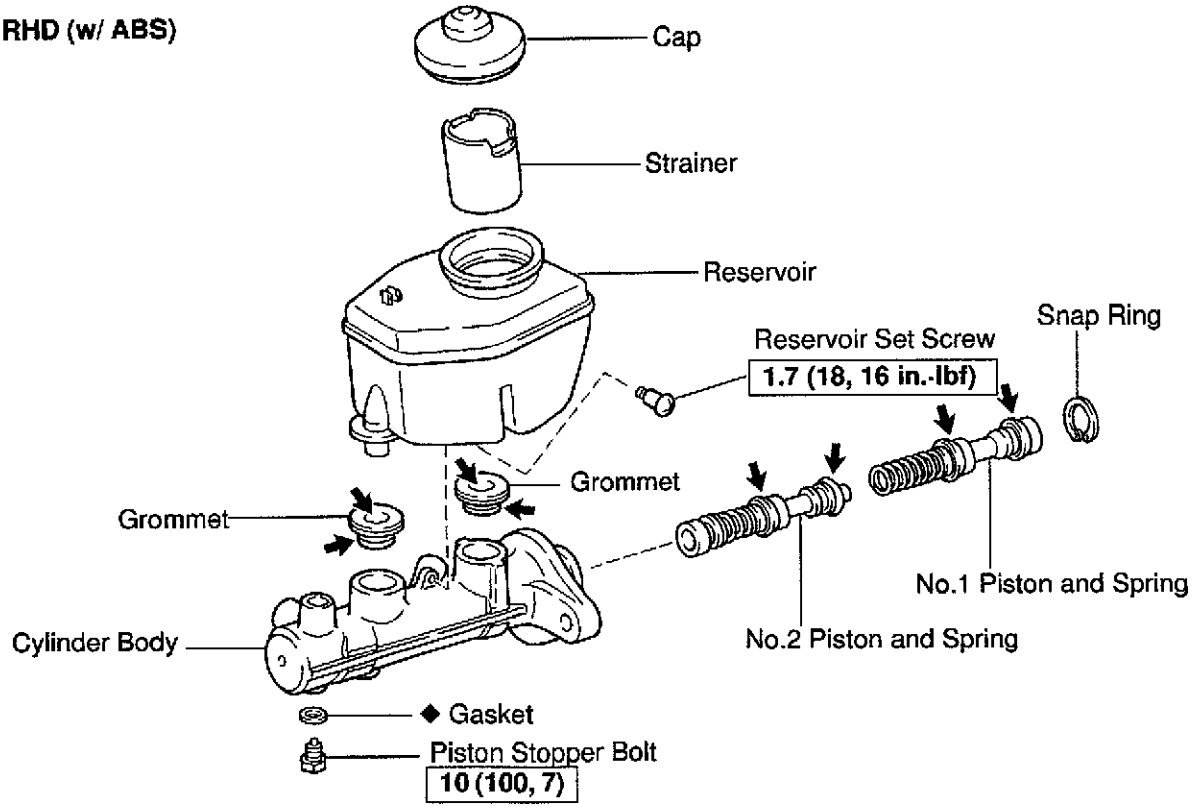
N·m (kgf·cm, ft·lbf) : Specified torque
◆ Non–reusable part
➡ Lithium soap base glycol grease

F00796

RHD (w/o ABS)



RHD (w/ ABS)



N·m (kgf·cm, ft·lbf) : Specified torque
◆ Non–reusable part
➡ Lithium soap base glycol grease

F00797

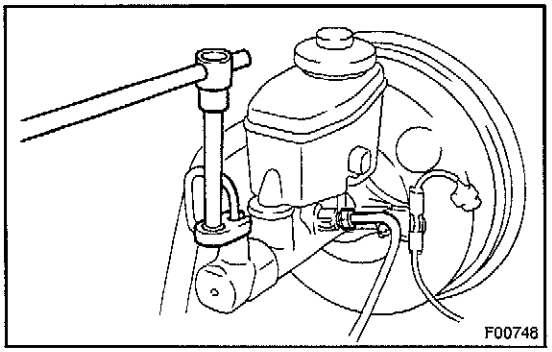
BR0EM-01

REMOVAL

1. **DISCONNECT LEVEL WARNING SWITCH CONNECTOR**
2. **TAKE OUT FLUID WITH SYRINGE**

NOTICE:

Do not let brake fluid remain on a painted surface. Wash it off immediately.

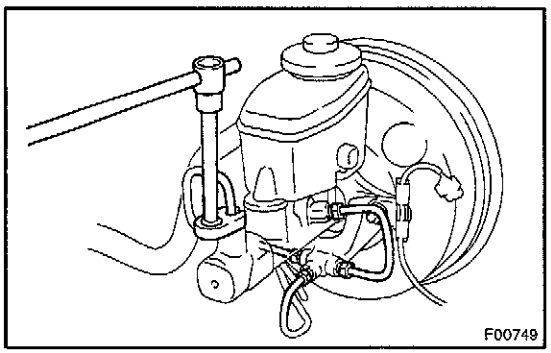


3. **G.C.C. (w/ ABS):**
   DISCONNECT BRAKE LINES

Using SST, disconnect the 2 brake lines from the master cylinder.

SST 09023–00100

Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)

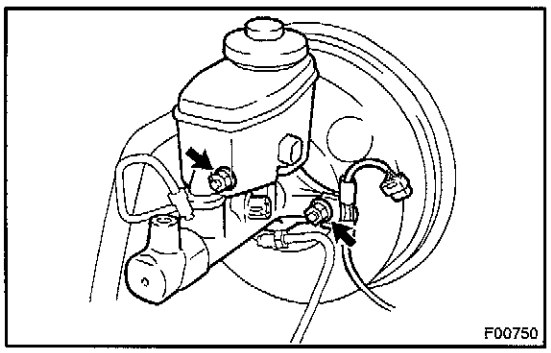


4. **OTHERS:**
   DISCONNECT BRAKE LINES

Using SST, disconnect the 5 brake lines from the master cylinder and 3–way.

SST 09023–00100

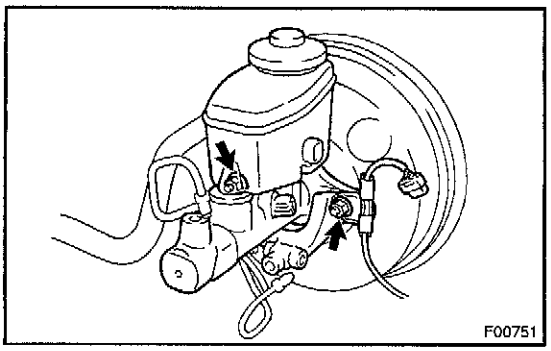
Torque: 15 N·m (155 kgf·cm, 11 ft·lbf)



5. **LHD (G.C.C.):**
   REMOVE MASTER CYLINDER

Remove the 2 nuts, wire harness bracket, check valve bracket (Gasoline E/G), and pull out the master cylinder and gasket.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)



6. **LHD (OTHERS):**
   REMOVE MASTER CYLINDER

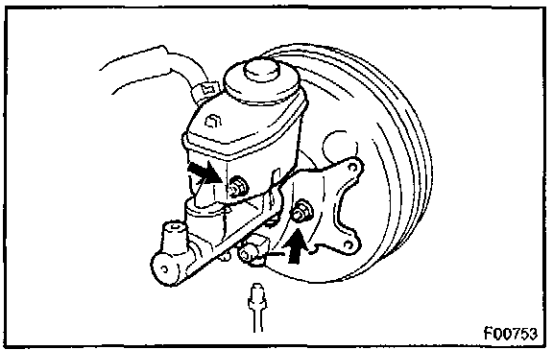
Remove the 2 nuts, 3–way, wire harness bracket, check valve bracket (Gasoline E/G), and pull out the master cylinder and gasket.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

7. RHD (2L–T):
REMOVE MASTER CYLINDER

(a) Remove the bolt and throttle cable clamp.
Torque: 6.9 N·m (70 kgf·cm, 61 in.·lbf)

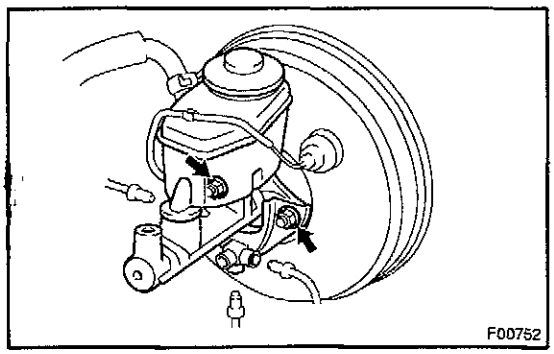
(b) Remove the 2 bolts and heat insulator.
Torque: 6.9 N·m (70 kgf·cm, 61 in.·lbf)



(c) Remove the 2 nuts, 3–way, wire harness, and pull out the master cylinder and gasket.
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

8. RHD (OTHERS):
REMOVE MASTER CYLINDER

(a) Remove the bolt and throttle cable clamp.
Torque: 6.9 N·m (70 kgf·cm, 61 in.·lbf)



(b) Remove the 2 nuts, 3–way, wire harness (w/ ABS), and pull out the master cylinder and gasket.
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

DISASSEMBLY

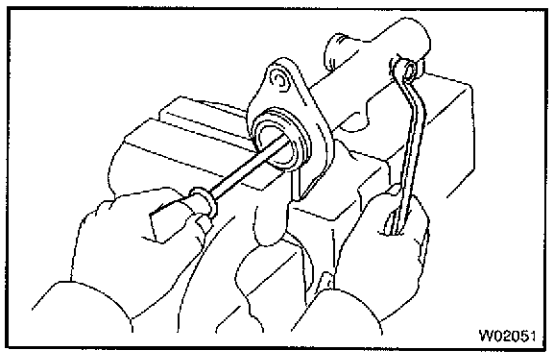
1. REMOVE RESERVOIR

(a) Remove the set screw and pul out the reservoir.
Torque: 1.7 N·m (18 kgf·cm, 16 in.·lbf)

(b) Remove the cap and strainer from the reservoir.

2. REMOVE 2 GROMMETS

3. PLACE CYLINDER IN VISE



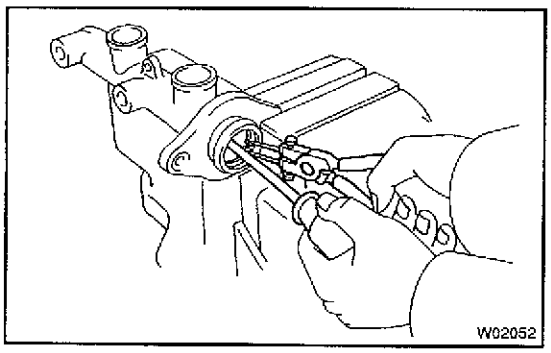
4. REMOVE PISTON STOPPER BOLT

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

HINT:

Tape the screwdriver tip before use.

Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)



5. REMOVE 2 PISTONS AND SPRINGS

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

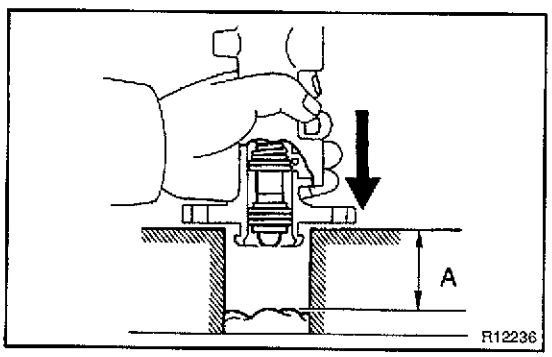
HINT:

Tape the screwdriver tip before use.

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

NOTICE:

- **If pulled out and installed at an angle, there is a possibly that the cylinder bore could be damaged.**
- **At the time of reassembly, be careful not to damage the rubber lips on the pistons.**



(c) Place a rag and 2 wooden blocks on the work table, and lightly tap the cylinder flange against the block edges until the No.2 piston drops out of the cylinder.

HINT:

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

BR0EO–01

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.

BRQEP-01

REASSEMBLY

Reassembly is in the reverse order of disassembly (See page BR–17).

NOTICE:

Apply lithium soap base glycol grease to the parts indicated by arrows (See page BR–10).

BR0EO-01

INSTALLATION

Installation is in the reverse order of removal (See page BR–15).
AFTER INSTALLATION, FILL BRAKE RESERVOIR WITH BRAKE FLUID, BLEED BRAKE SYSTEM (See page BR–4) AND CHECK FOR LEAKS