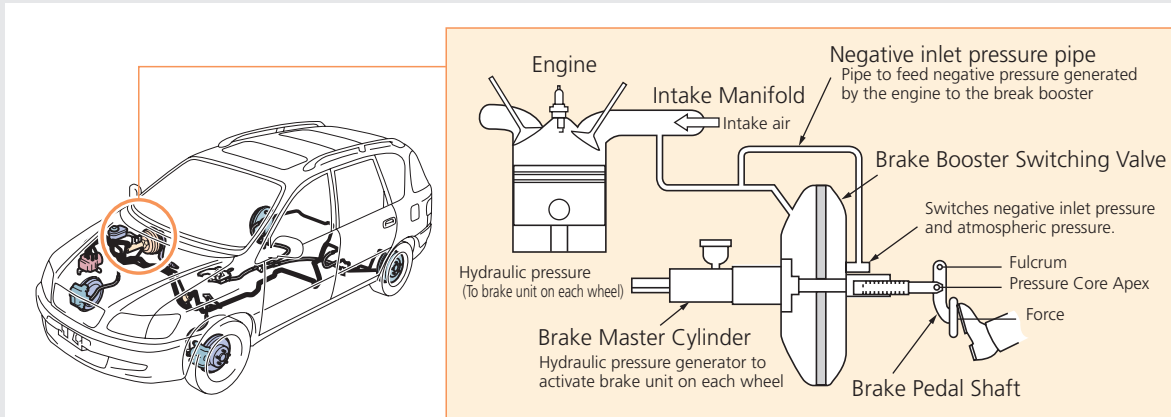


Brake Booster

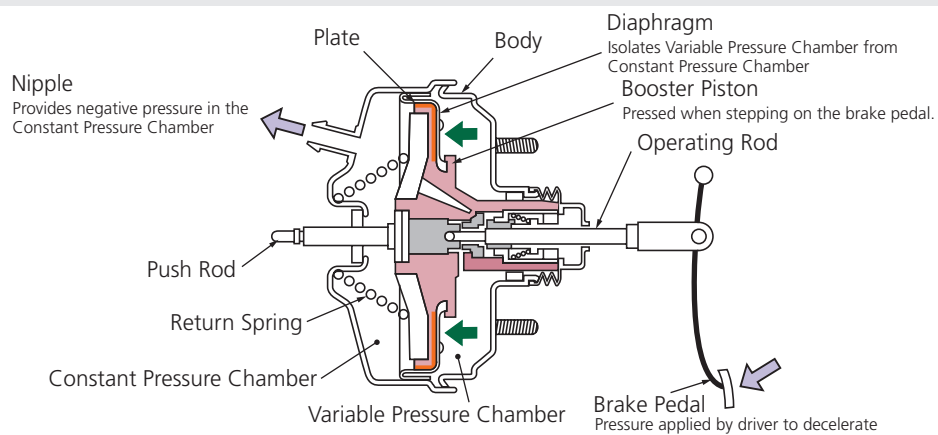


Function



Braking force is transmitted to the braking unit (caliper or drum) using a lever and hydraulic pressure. Due to the high forces required on the lever to dampen the speed of heavier vehicles, the brake booster is designed to assist in applying the required pressure. The brake booster is a servo unit which uses negative pressure generated by the engine to the brake master cylinder.

Structure and Components



As the driver steps on the brake pedal, atmospheric air is introduced in the variable pressure chamber, producing a pressure differential between the variable and the constant pressure chamber. The force generated by the pressure differential on the plate is transmitted to the push rod via the booster piston which pushes the piston of the brake master cylinder. When the pedal is depressed, all components return to its original positions through the return springs.

Dependent on the application and capacity, a single or tandem chamber design brake booster may be used.

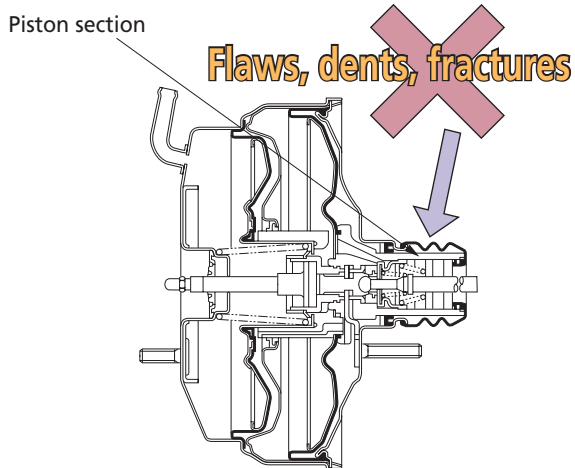
Installation Procedure



CAUTION! Failure to follow recommended procedures may cause brake failure and injury. Always consult the manufacturer's vehicle specific service manual for reference.

1

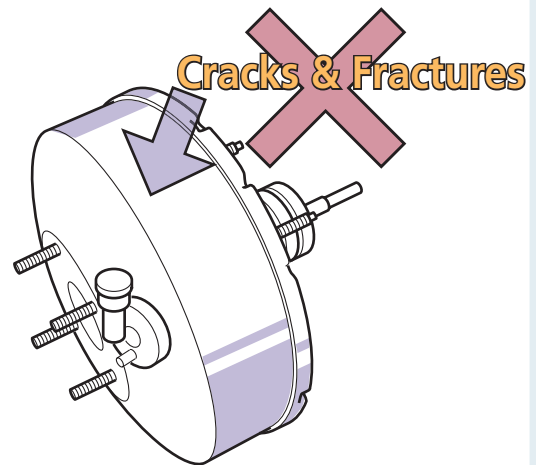
Confirm that the piston section is free of flaws, dents, fractures, etc.



Insufficient pressure or leaks may occur if damaged.

2

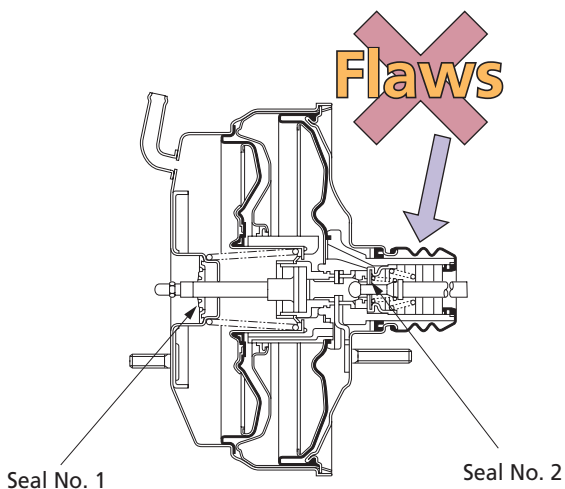
Confirm that the body is free from cracks or fractures.



Insufficient pressure or leaks may occur if damaged.

3

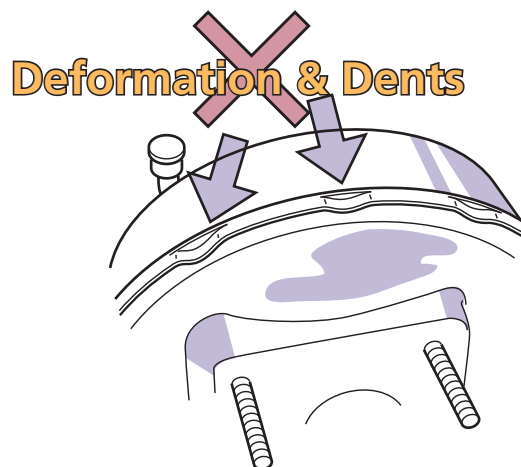
Confirm that Seals No. 1 & 2 are free of flaws.



Insufficient pressure or leaks may occur if damaged.

4

Confirm that the caulked area around the perimeter of the body are not deformed or dented.



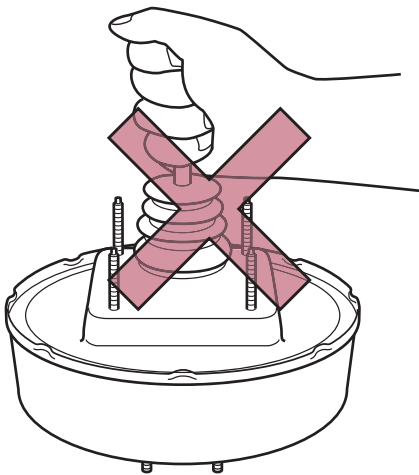
Insufficient pressure or leaks may occur if damaged.

Installation Procedure

CAUTION! Failure to follow recommended procedures may cause brake failure and injury. Always consult the manufacturer's vehicle specific service manual for reference.

5

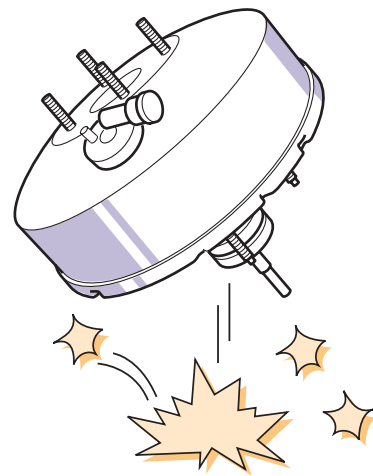
Do not hold or lift from the input rod.



Internal parts may be damaged and the brake booster may fail to operate correctly.

6

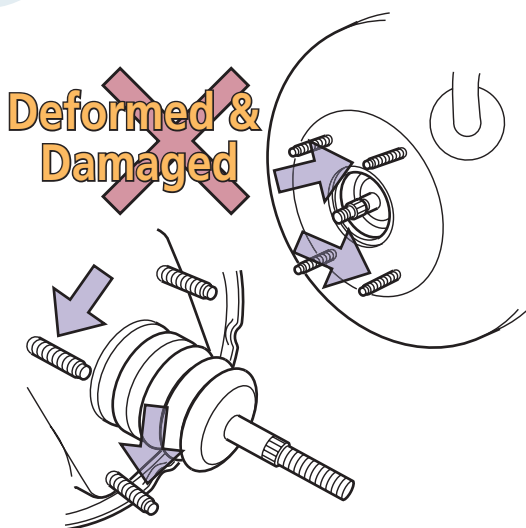
Handle with care. Do not drop or deform. Do not install if damaged.



Brake booster may fail to operate correctly.

7

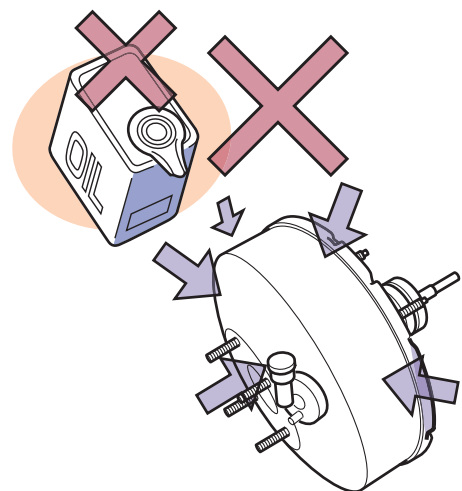
Confirm that bolts are not deformed or damaged.



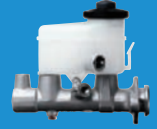
Brake booster may not mount properly causing failure to operate correctly.

8

Do not contaminate the brake booster with oil, grease, brake fluid, etc.



Contamination may cause the paint to peel, exposing bare metal to the elements.

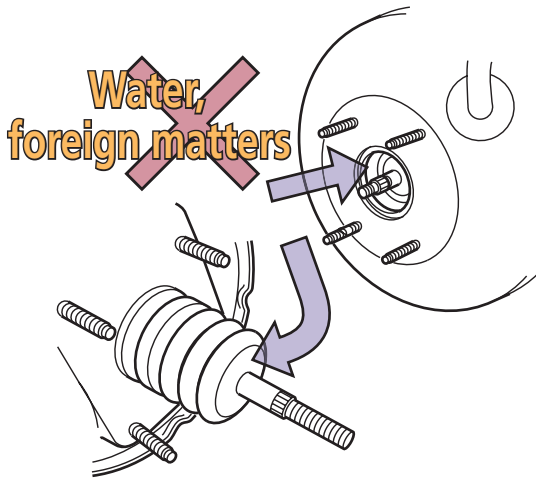


CAUTION!

Failure to follow recommended procedures may cause brake failure and injury. Always consult the manufacturer's vehicle specific service manual for reference.

9

Take care to protect the inside of brake booster from ingress of water or foreign matters.



It could cause rust formation at the inside or damage seals so that the brake booster may fail to function properly.