

GENERAL DESCRIPTION

1. Care must be taken to replace each part properly as it could affect the performance of the brake system and result in a driving hazard. Replace the parts with parts of the same part number or equivalent.
2. It is very important to keep parts and the area clean when repairing the brake system.

DESCRIPTION

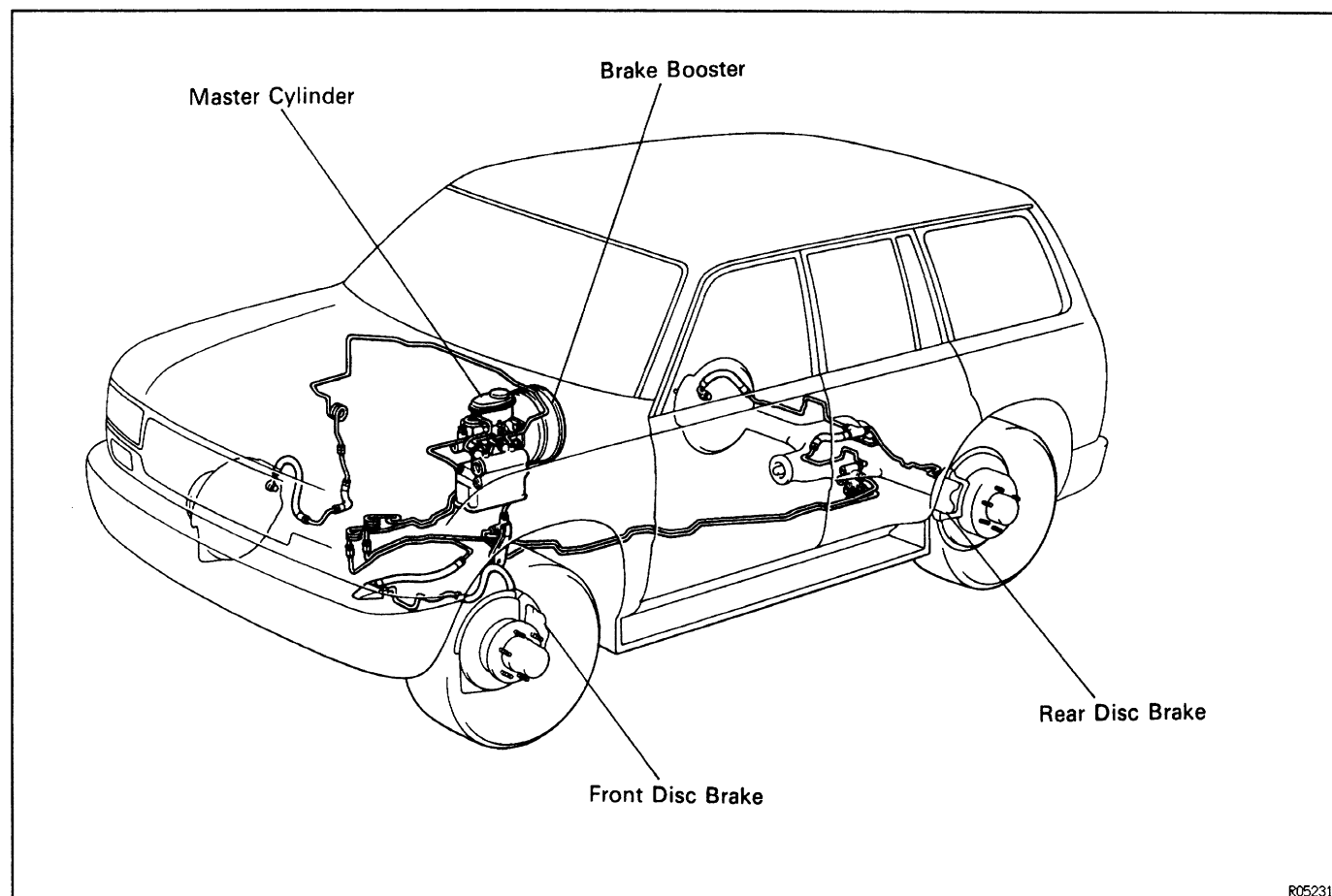
The service brakes consist of a foot brake which changes rotational energy to thermal energy to stop the vehicle while it is being driven and a parking brake to keep the vehicle from moving while it is parked.

OPERATION

FOOT BRAKE

BR014-07

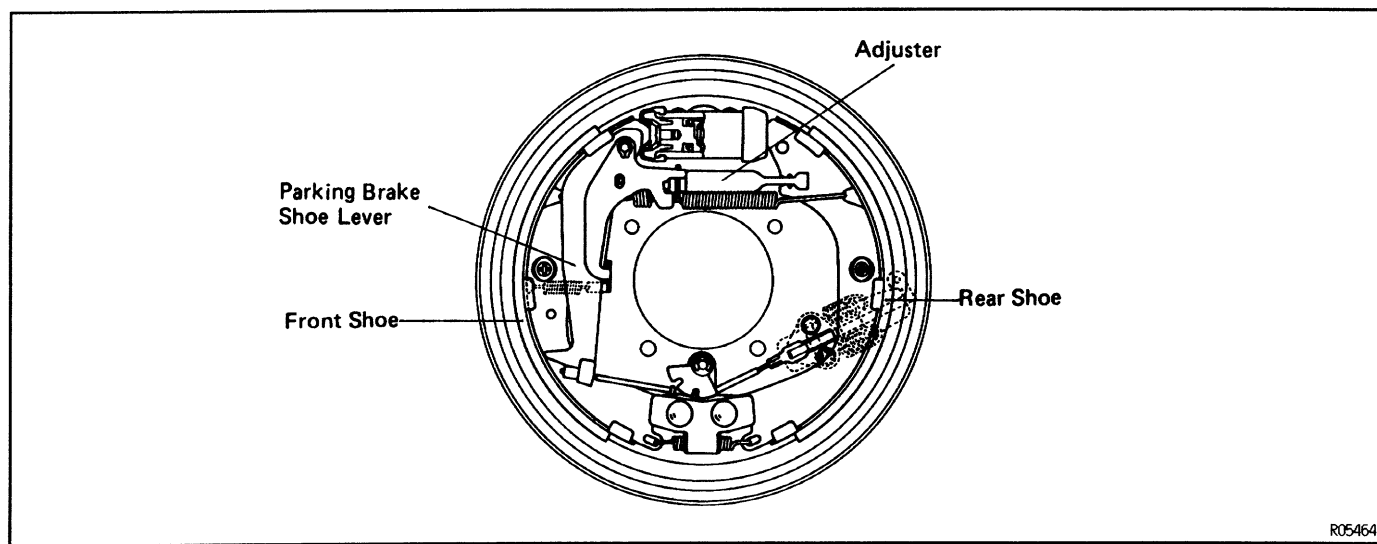
When the brake pedal is depressed, a vacuum builds up in the booster which amplifies the pedal force, pressing on the piston in the master cylinder. The piston raises the hydraulic pressure in the cylinder. This hydraulic pressure is then applied to each front brake caliper and rear brake cylinder (or rear wheel cylinder), and acts to press the front brake pads and rear brake pads (or rear brake shoes) against the rotating discs (or brake drums). The resulting friction converts the rotational energy to thermal energy, stopping the vehicle.



R05231

PARKING BRAKE (Rear Drum Brake)

When the parking brake lever is pulled, the parking brake shoe lever is pulled via the parking brake wire. This causes the adjuster to push the front shoe, which expands and is pressed against the brake drum. If the parking brake lever continues to be pulled, the contact point of the parking brake shoe lever and adjuster then becomes the fulcrum so that the parking brake shoe lever causes the rear shoe to expand. This results in the brake drum being locked by the front shoe and rear shoe.



PARKING BRAKE (Rear Disc Brake)

When the parking brake lever is pulled, the parking brake shoe lever is pulled via the parking brake wire. This causes the shoe strut to push the front shoe, which expands and is pressed against the disc. If the parking brake lever continues to be pulled, the contact point of the parking brake shoe lever and shoe strut then becomes the fulcrum so that the parking brake shoe lever causes the rear shoe to expand. This results in the disc being locked by the front shoe and rear shoe.

