BRAKE

■ DESCRIPTION

1. General

- The hydraulic brake booster assembly in which the brake actuator, brake booster, master cylinder are integrated is used.
- A double-link type variable lever ratio brake pedal is used.
- In addition to the conventional ABS, a Multi-terrain ABS, which automatically calculates the optimum ABS control in accordance with the off-road terrain such as dirt, sand, or gravel, is newly provided. The braking feel in off-road situations has been enhanced.
- The CRAWL, a driving support system which aids the driver when the vehicle is driven on very bumpy or slippery roads, has been newly added. When the CRAWL is active, the engine output and the brake force are automatically regulated, thus enabling the vehicle to run at a constant speed. As a result, the driver is allowed to concentrate on maneuvering the steering wheel with less accelerator and brake pedal operation. (Only for 2UZ-FE engine models)
- The new Land Cruiser (Station Wagon) has a brake system with the following equipment and specifications:

▶ Equipment ◀

Front Brake Type		Ventilated Disc
Rear Brake Type		Ventilated Disc
Brake Control System	Multi-terrain ABS with EBD, Brake Assist	Standard
	Multi-terrain ABS with EBD, Brake Assist, A-TRC, VSC, Hill-start Assist Control and Downhill Assist Control*1	Standard or Option*3
	Multi-terrain ABS with EBD, Brake Assist, A-TRC, VSC, Hill-start Assist Control and CRAWL*2	Standard or Option*3
Parking Brake Operation Type		Lever Type

*1: Only for 1VD-FTV engine models.
*2: Only for 2UZ-FE engine models.
*3: Depending on the destinations and grades. For details, see page MO-33.

▶ Specifications ◀

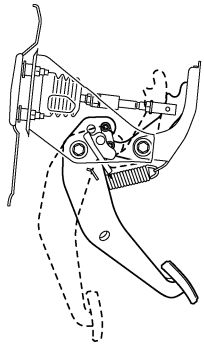
Master Cylinder	Type		Single (Double Piston)
	Diameter	mm (in.)	26.99 (1.06)
Brake Booster			Hydraulic
Front Brake	Caliper Type		17” S15WA
	Wheel Cylinder Diameter	mm (in.)	51.1 (2.01) × 2
	Rotor Size (D × T)*1	mm (in.)	340 × 32 (13.39 × 1.26)
	Pad Area	cm^2 ($in.^2$)	65.0 (10.08) × 2
	Pad Material		PV565H, T4146*2
Rear Brake	Caliper Type		17” FS13C
	Wheel Cylinder Diameter	mm (in.)	45.4 (1.79)
	Rotor Size (D × T)*1	mm (in.)	345 × 18 (13.59 × 0.71)
	Pad Area	cm^2 ($in.^2$)	36.7 (5.69) × 2
	Pad Material		PS558H
Parking Brake	Type		Duo Servo Drum
	Drum Inner Diameter	mm (in.)	240 (9.45)

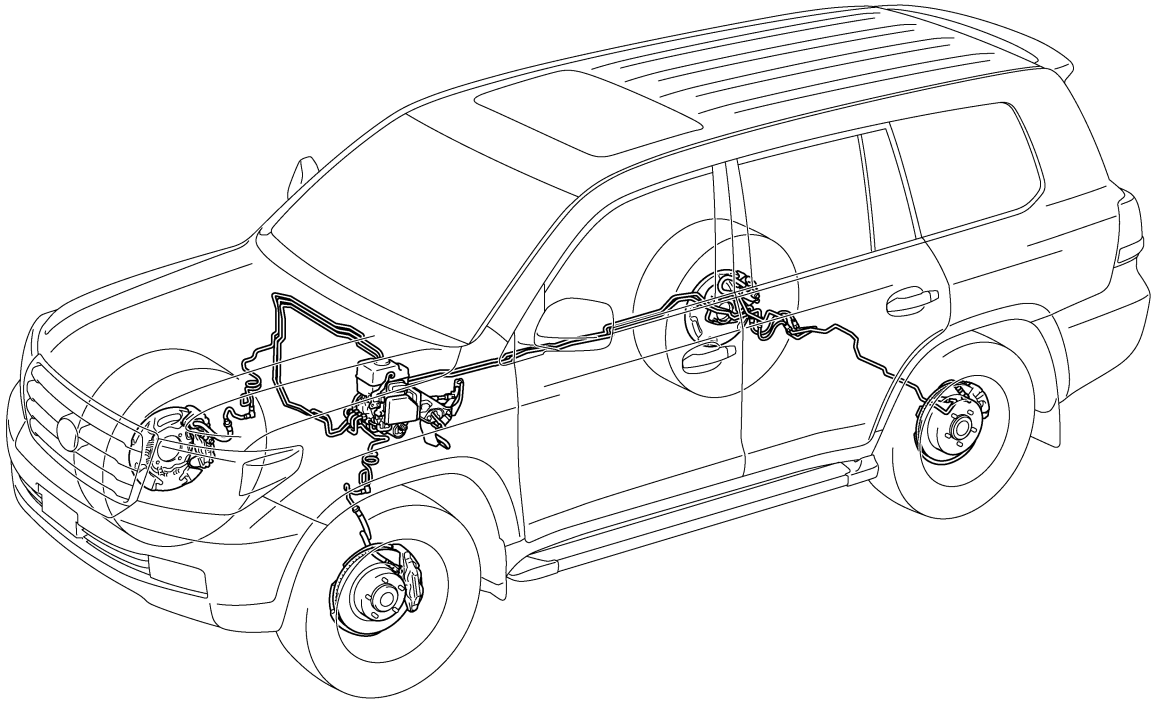
*1: D: Outer Diameter, T: Thickness

*2: Only on European models for the German package.

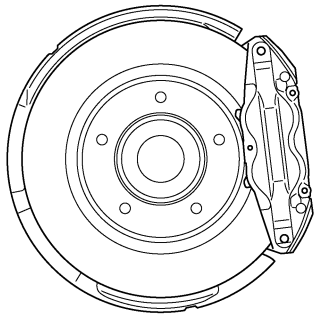
2. Components of Brake System

▶ **Brake Pedal (Double-Link Type)** ◀

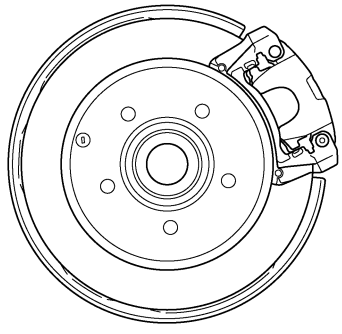




▶ **Front Brake** ◀



▶ **Rear Brake** ◀



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