

## BRAKE

### DESCRIPTION

#### 1. General

The '08 Sequoia has a brake system with the following specifications:

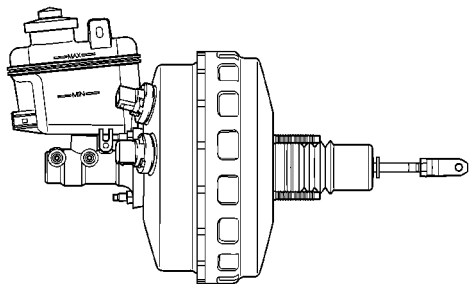
Model		2WD	4WD
Front Brake		Ventilated Disc	←
Rear Brake		Ventilated Disc	←
Parking Brake		Toggle Lever Type	←
Brake Booster		Tandem	←
Brake Pedal		Double-link Type	←
Parking Brake Operation Type		Pedal Type	←
Brake Control System	ABS (Anti-lock Brake System) EBD (Electronic Brake force Distribution) Brake Assist TRAC (Traction Control) Auto LSD VSC (Vehicle Stability Control)	Standard	—
	ABS (Anti-lock Brake System) EBD (Electronic Brake force Distribution) Brake Assist TRAC (Traction Control) A-TRAC (Active Traction Control) Auto LSD VSC (Vehicle Stability Control)	—	Standard

#### ► Specifications ◀

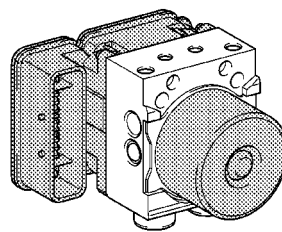
Master Cylinder	Type	Tandem (Plunger)
	Diameter mm (in.)	23.81 (0.94)
Brake Booster	Type	Tandem
	Size in.	8" + 9"
Front Brake	Caliper Type	S15W
	Pad Area cm <sup>2</sup> (in. <sup>2</sup> )	65.0 (10.1)
	Pad Material	PV565H
	Wheel Cylinder Diameter mm (in.)	51.1 (2.01) × 2
	Rotor Size (D × T)* mm (in.)	354 × 32 (13.9 × 1.26)
Rear Brake	Caliper Type	FS14
	Pad Area cm <sup>2</sup> (in. <sup>2</sup> )	36.7 (5.7)
	Pad Material	PS558H
	Wheel Cylinder Diameter mm (in.)	48.1 (1.89)
	Rotor Size (D × T)* mm (in.)	345 × 18 (13.6 × 0.71)
Parking Brake	Type	Duo-servo Drum
	Drum Inner Diameter mm (in.)	240 (9.45)
Brake Actuator	Manufacturer	Continental Teves

\*: (Diameter × Thickness)

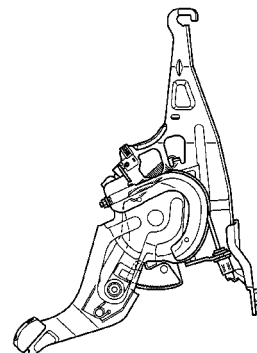
## 2. Components of Brake System



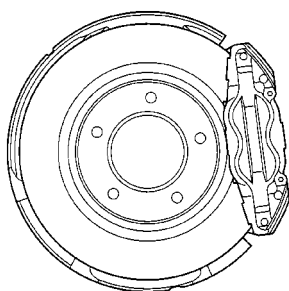
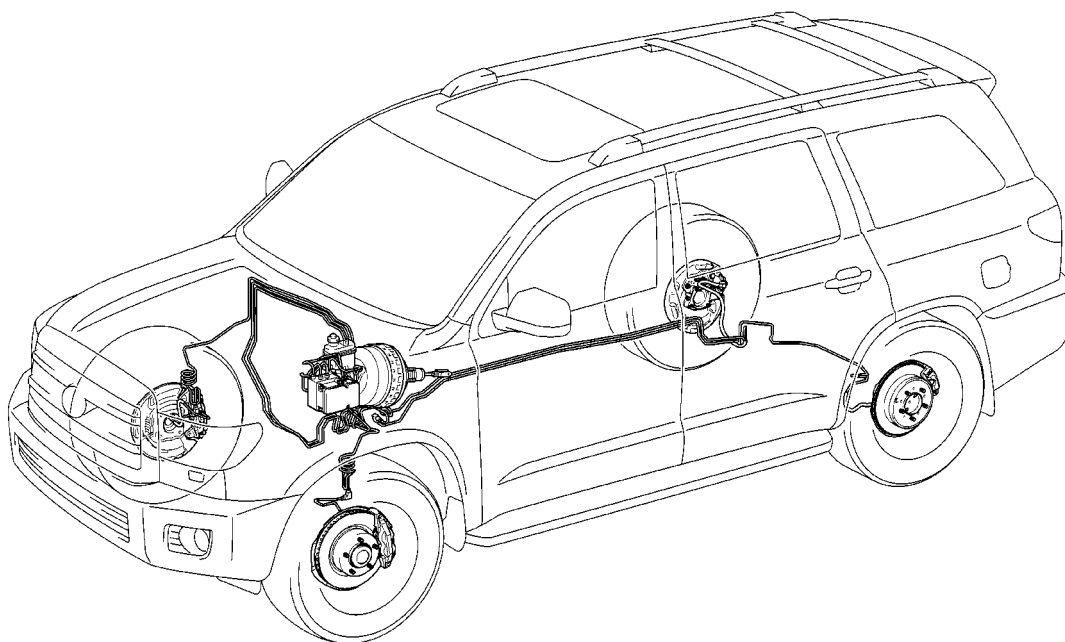
**Master Cylinder & Brake Booster**



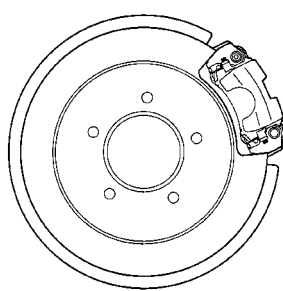
**Brake Actuator**



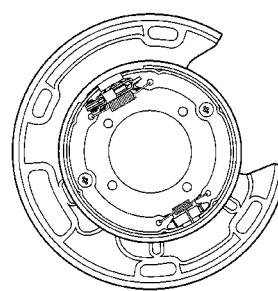
**Parking Brake Pedal**



**Front Brake**



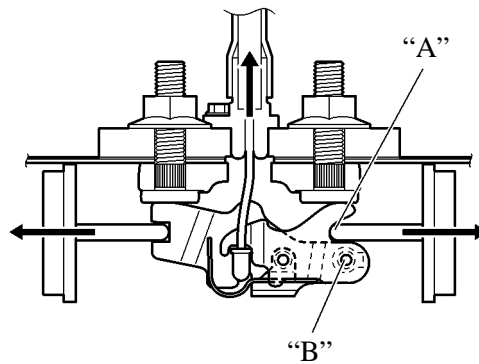
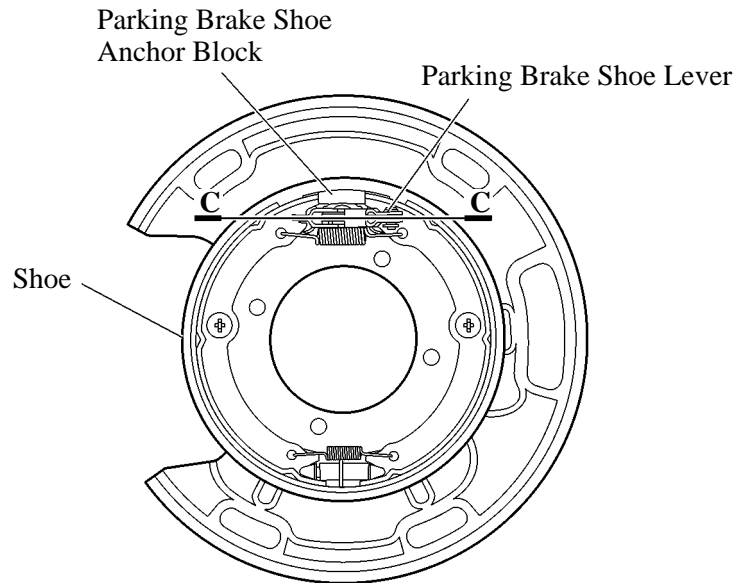
**Rear Brake**



**Parking Brake**

### 3. Parking Brake

- A toggle lever type duo-servo brake mechanism is used for the parking brake to simplify the constituent parts and to achieve weight reduction.
- This parking brake mainly consists of a parking brake shoe lever, a parking brake shoe anchor block, and a shoe. When the parking brake lever is operated, it pulls on the cable, and this causes the parking brake shoe lever to expand the shoes via fulcrums “A” and “B”.



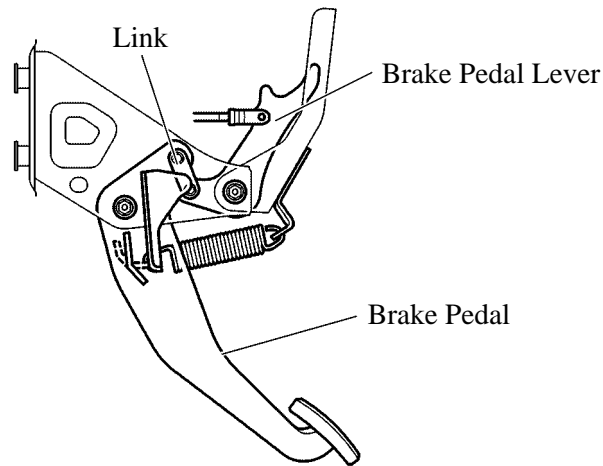
**C – C Cross Section**

08LCH095Y

#### 4. Double-link Type Brake Pedal

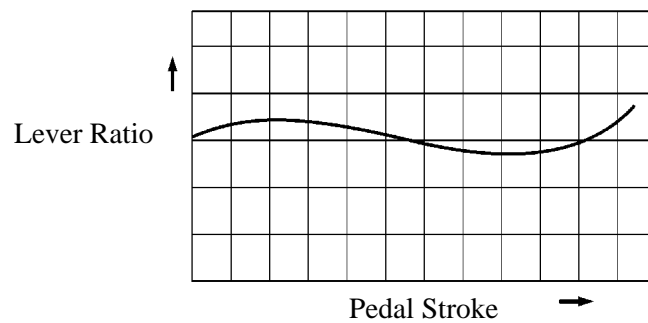
This brake pedal uses a construction in which the brake pedal and brake pedal lever are joined by a link in order to vary the lever ratio.

- When the pedal stroke is small or medium, the lever ratio is increased in order to reduce the pedal effort.
- When the pedal stroke is large, the lever ratio is decreased to provide appropriate pedal rigidity.



04E0CH50Z

**Double-link Type Brake Pedal**



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**Lever Ratio Characteristic**