BRAKE

■ DESCRIPTION

1. General

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

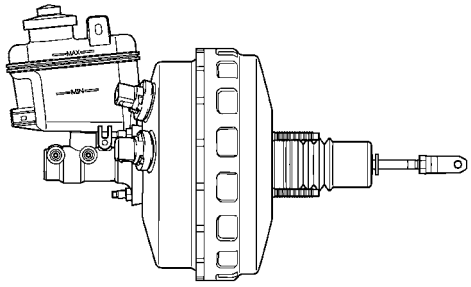
Model		2WD	4WD
Front Brake		Ventilated Disc	←
Rear Brake		Ventilated Disc	←
Parking Brake		Toggle Lever Type	←
Brake Booster		Tandem	←
Brake Pedal		Double-link Type	←
Parking Brake Operation Type		Pedal Type	←
Brake Control System	ABS (Anti-lock Brake System) EBD (Electronic Brake force Distribution) 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 ◀

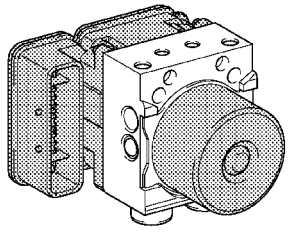
Master Cylinder	Type		Tandem (Plunger)
	Diameter	mm (in.)	23.81 (0.94)
Brake Booster	Type		Tandem
	Size	in.	8” + 9”
Front Brake	Caliper Type		S15W
	Pad Area	cm^2 ($in.^2$)	65.0 (10.1)
	Pad Material		PV565H
	Wheel Cylinder Diameter	mm (in.)	51.1 (2.01) × 2
	Rotor Size (D × T)*	mm (in.)	354 × 32 (13.9 × 1.26)
Rear Brake	Caliper Type		FS14
	Pad Area	cm^2 ($in.^2$)	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)

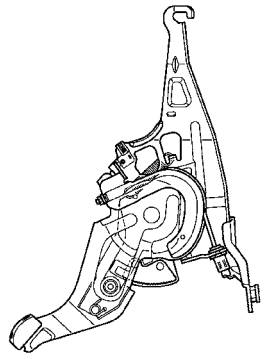
2. Components of Brake System



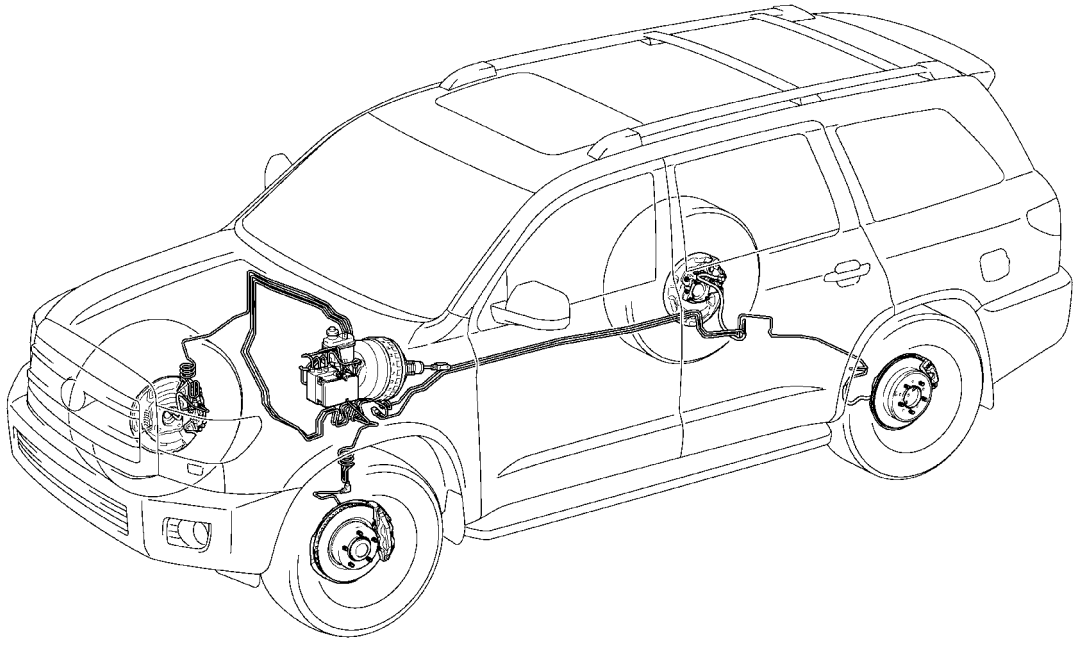
Master Cylinder & Brake Booster

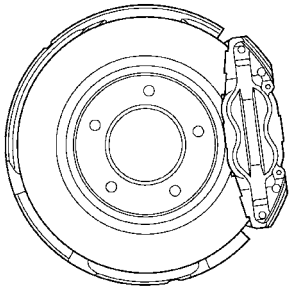


Brake Actuator

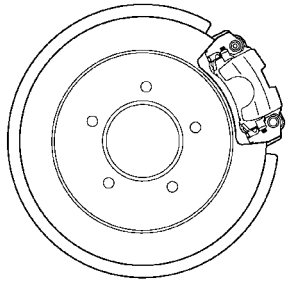


Parking Brake Pedal

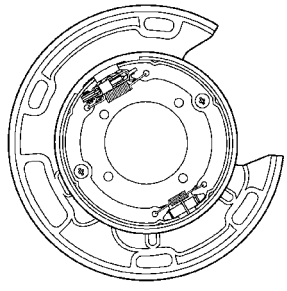




Front Brake



Rear Brake

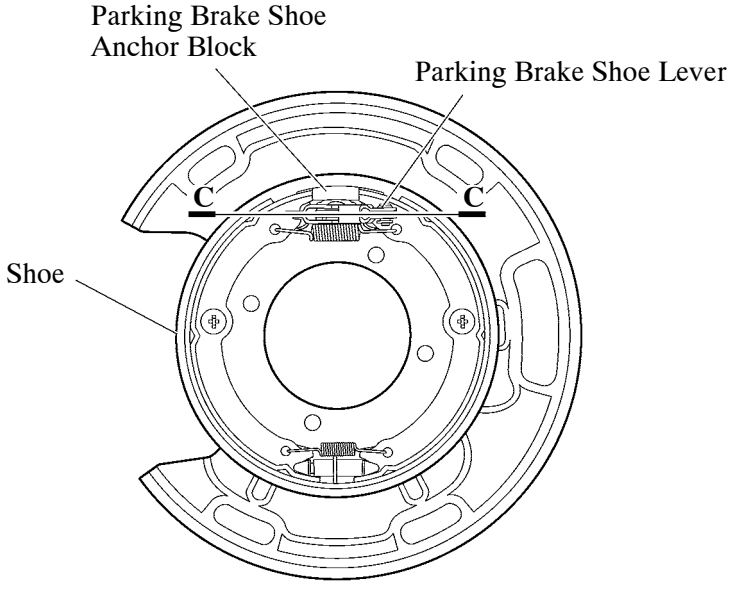


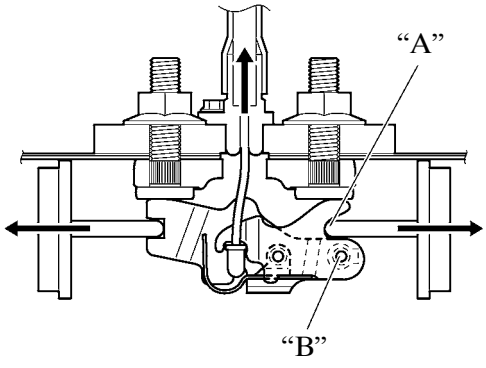
Parking Brake

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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”.





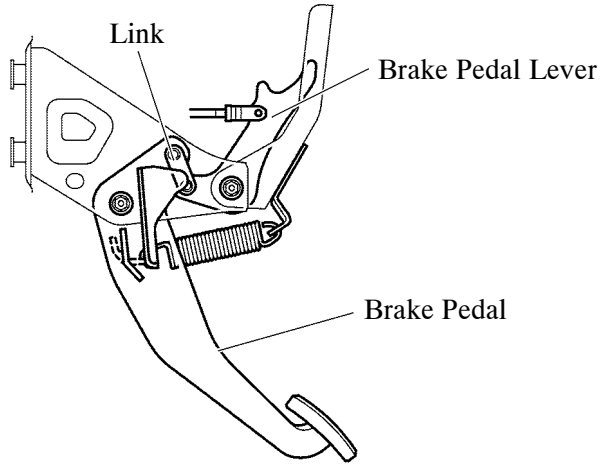
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C – C Cross Section

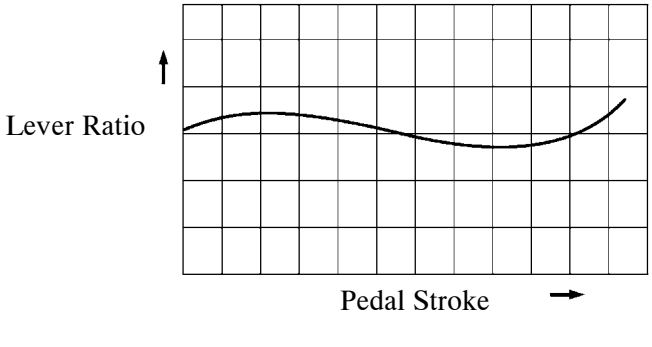
4. Double-link Type Brake Pedal

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.



Double-link Type Brake Pedal



Lever Ratio Characteristic