
GROUP 35A

BASIC BRAKE SYSTEM

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GENERAL INFORMATION

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The brake system has been designed to give greater reliability and durability and to provide excellent braking performance.

FEATURES

IMPROVED BRAKING PERFORMANCE

1. A 10-inch brake booster has been adopted to provide large braking force with a small pedal depression force.
2. 15-inch front ventilated disc brakes, and 14-inch rear solid disc brakes have been adopted to provide stable braking force and fade-resistant characteristics.

IMPROVED STABILITY

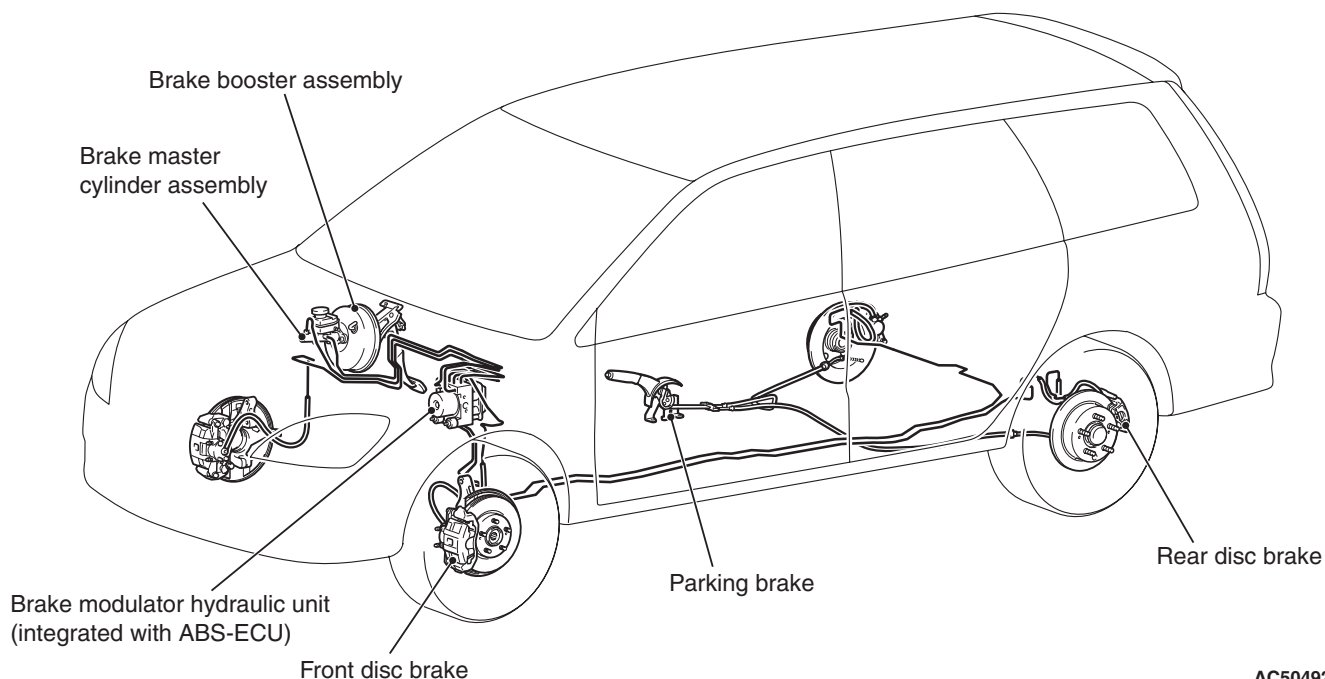
1. A 4-wheel anti-skid braking system (4ABS) has been adopted to prevent slipping caused by the vehicle wheels locking up, in order to maintain an appropriate braking distance, and also to maintain a stable vehicle posture and steering performance.

2. An electronic brake-force distribution (EBD) makes it possible to maintain the maximum amount of braking force even when the vehicle's load is varied.
3. Front- and rear-wheel X-type brake line layout has been adopted.
4. Ventilated discs have been adopted for front brakes in order to improve anti-fading performance.

IMPROVED SERVICEABILITY

1. A diagnosis function has been adopted for the ABS system in order to make inspection easier.
2. For the front and rear disc brakes, an outer disc separated hub and rotor has been adopted to make removal and installation easier.
3. The brake fluid reservoir cap has been colored white to make identification easier.
4. The ABS-ECU and brake modulator hydraulic unit have been integrated to make them more compact and lighter.

CONSTRUCTION DIAGRAM



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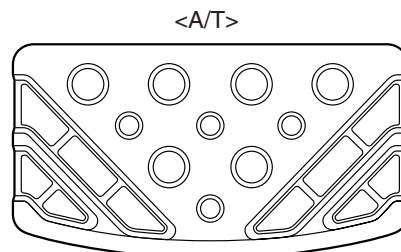
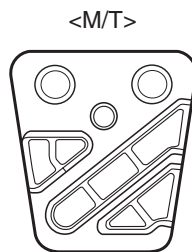
SPECIFICATIONS

Item		Specification
Master cylinder	Type	Tandem type
	I.D. mm	25.4
Brake booster	Type	Vacuum type, single
	Effective diameter of power cylinder mm	255
	Boosting ratio	7.0
Rear wheel hydraulic control method		Electronic brake-force distribution (EBD)
Front brakes	Type	Floating calliper, 1 piston, ventilated disc
	Disc effective diameter × thickness mm	222 × 26
	Cylinder I.D. mm	60.3
	Pad thickness mm	10.0
	Clearance adjustment	Automatic
Rear brakes	Type	Floating calliper, 1 piston, solid disc
	Disc effective diameter × thickness mm	226 × 10
	Cylinder I.D. mm	38.1
	Pad thickness mm	10.0
	Clearance adjustment	Automatic
Brake fluid		DOT3 or DOT4

BRAKE PEDAL

PEDAL PAD

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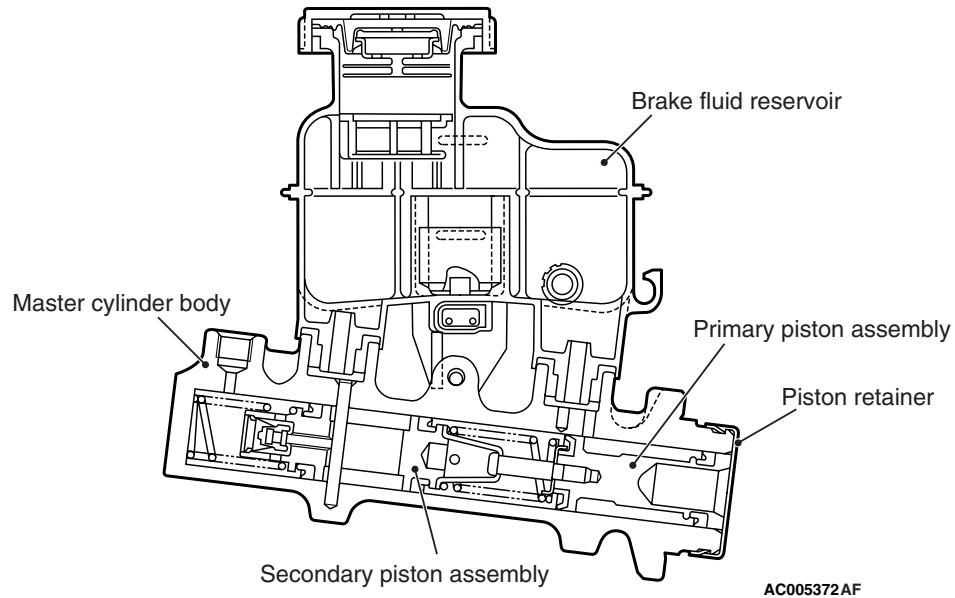


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The aluminium pedal pad has been adopted in order to improve the drivability and to enhance the sporty image.(VR-X)

BRAKE MASTER CYLINDER ASSEMBLY

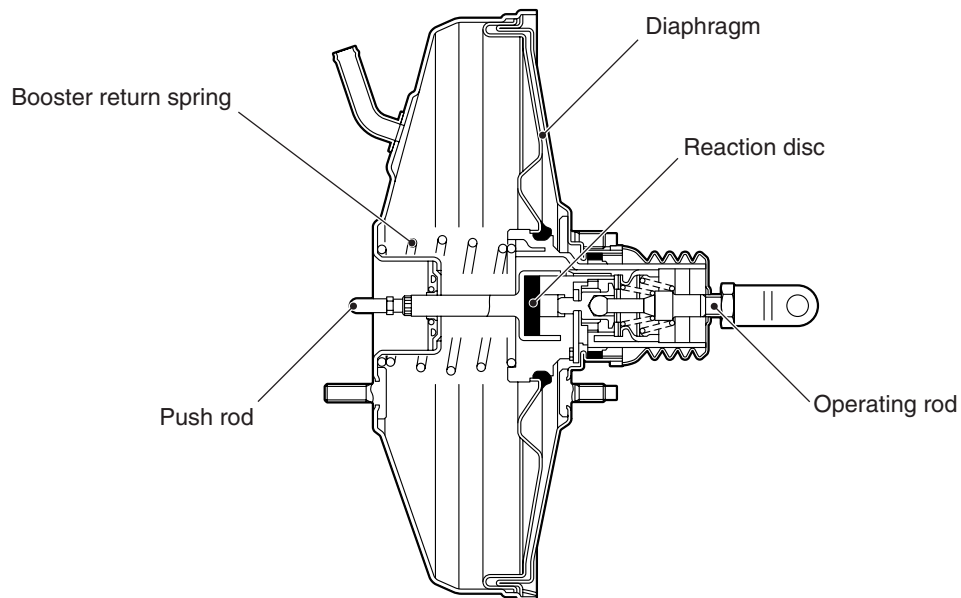
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The brake master cylinder assembly is a tandem-type, with a structure that emphasizes safety.

BRAKE BOOSTER ASSEMBLY

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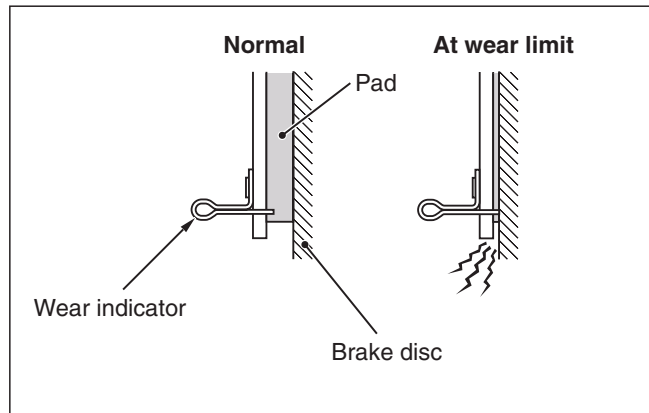
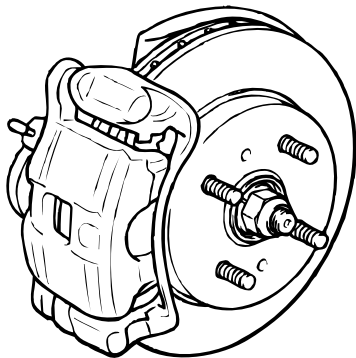


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To improve the braking performance an 10-inch single-type brake booster assembly is adopted.

FRONT BRAKE

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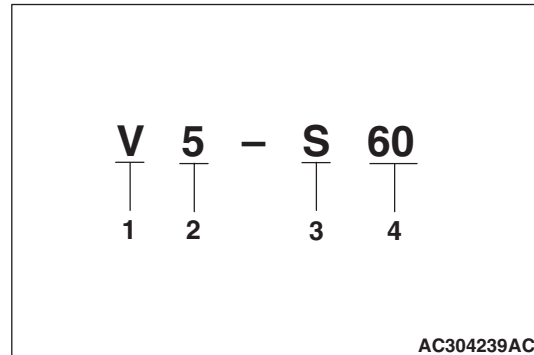


AC304240 AB

Brakes with the following specifications have been adopted for the front brakes.

- V5-S60 1-piston ventilated discs
- An outer disc method in which the wheels and discs are tightened together has been adopted to improve the ease of brake disc removal and installation.
- The brake pads are equipped with mechanical-type audible wear indicators to notify the driver when the usage limit (2 mm) has been reached.

DISC BRAKE NOMENCLATURE

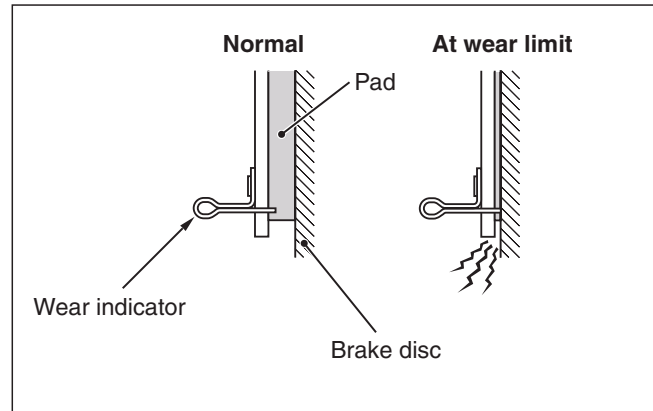
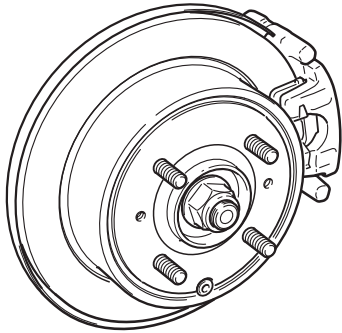


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No.	Item	Contents
1	Brake disc type	S: Solid V: Ventilated
2	Brake size (Minimum applicable disc wheel)	4: 14-inch 5: 15-inch
3	No. of pistons	S: 1 piston (floating type)
4	Piston size (rounded to nearest integer)	38: $\phi 38.1$ mm 60: $\phi 60.3$ mm

REAR BRAKE

M2350004000359



AC304028 AB

Brakes with the following specifications have been adopted for the rear brakes.

- S4-S38 1-piston solid discs*.
- An outer disc method in which the wheels and discs are tightened together has been adopted to improve the ease of brake disc removal and installation.

- The brake pads are equipped with mechanical-type audible wear indicators to notify the driver when the usage limit (2 mm) has been reached.

NOTE: *For the brake disc name, refer to *FRONT BRAKE* [P.35A-5](#).