

WIPER AND WASHER SYSTEM

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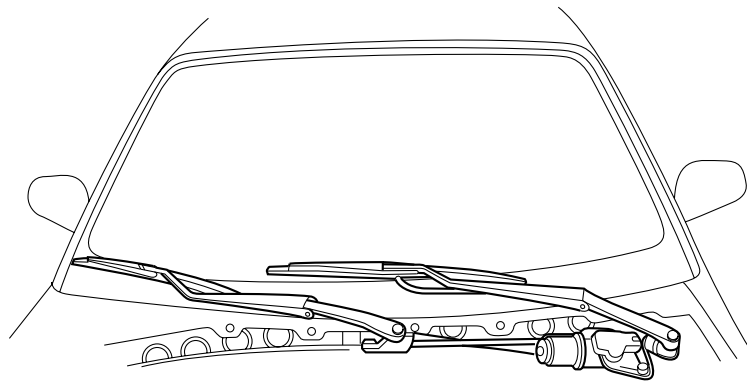
WIPER AND WASHER SYSTEMS

1. Wiper and Washer Systems

A: GENERAL

1. FRONT WIPER

- 1) The front wiper is of a tandem type featuring a wide wiping area. The blade is installed to the arm by means of U-hook joint to improve serviceability.
- 2) The front wiper operates in the HI and LOW speed modes and the INTERMITTENT mode. The operation modes can be selected by turning the wiper switch incorporated in the combination switch.
- 3) In the INTERMITTENT mode, the intermittent unit installed behind the combination switch controls the front wiper operation interval.
- 4) The front wiper system uses a modular construction in which the wiper motor forms an integral part of the linkage. The motor is installed on the body through rubber mounting.



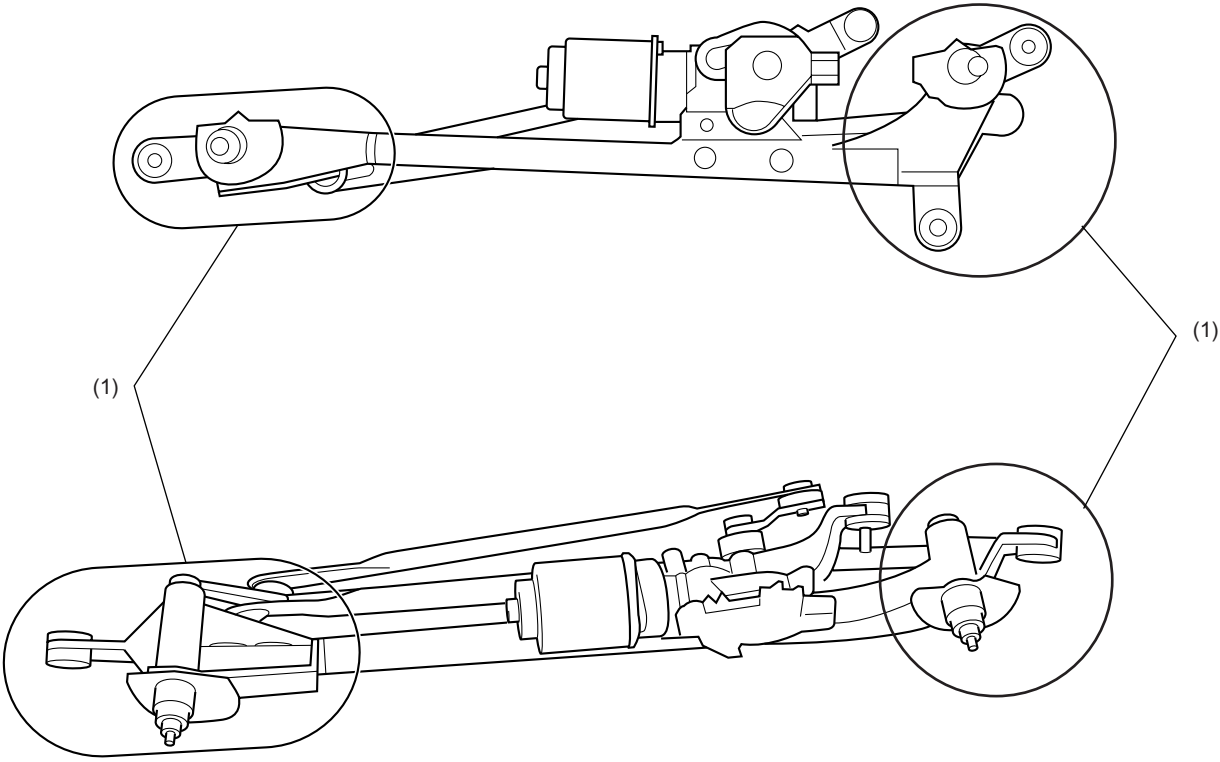
WW-00159

- 5) The size of the motor is minimized by changing the stator shape, coil windings and the magnet.

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6) The mounting bracket is modified. The bracket of the wiper link assembly bracket area breaks if it receives a force exceeding a certain level to absorb the impact in case of a traffic accident, etc.



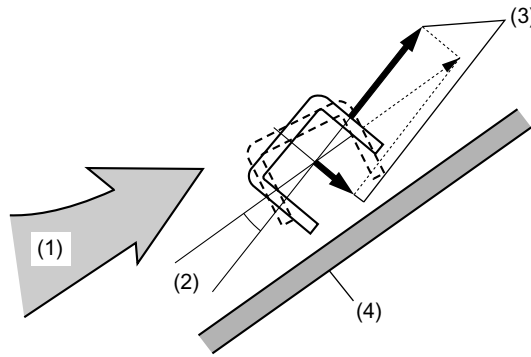
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(1) Bracket

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7) The driver's side wiper arm is angled to disperse the force applied to the wiper arm by the airflow. A part of the dispersed force acts to press the wiper blade against the windshield helping to prevent the wiper blade being lifted up.



WW-00043

- (1) Airflow
- (2) Angle of twist

- (3) Dispersed force
- (4) Windshield

8) When wiper arms are raised in cases such as washing the car, always raise the driver's seat side wiper arm first and then raise the passenger's seat side wiper arm. If the passenger's seat side wiper arm is raised first, this will obstruct the way for the driver's side wiper arm. If forcibly raised in the wrong way, the passenger's side wiper arm may be damaged. When lowering the wiper arms, lower the passenger's side arm first.

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2. FRONT WASHER SYSTEM

- 1) The front washer system consists of a washer tank, motor and pump unit, and a pair of nozzles.
- 2) The washer tank is installed behind the front bumper under the left headlight.
- 3) The washer motor and pump unit is installed at the bottom of the washer tank.
- 4) The washer nozzles are installed to the front hood at its rear end and from the under side. Each nozzle has a spray hole.
- 5) Each washer nozzle has a check valve at a location approximately 100 mm (3.94 in) from the nozzle.
- 6) The washer tank is filled to its specified capacity when the fluid level is at the “FULL” mark on the filling pipe. Do not fill washer fluid until its level exceeds the “FULL” mark. The fluid may spill during driving or when replacing the head light bulb.

3. SPECIFICATIONS

Washer tank	Capacity			4.0 ℓ (4.2 US qt, 3.5 Imp qt)
Wiper motor	Rated voltage			12 V
	No-load current			4 A or less
	Speed [at 2.0 N·m (20 kg-cm, 17 in-lb)]		HIGH	56 — 68 rpm
			LOW	35 — 45 rpm
	Motor characteristics when bound	HIGH	Torque	25.5 N·m (260 kg-cm, 1.88 ft-lb) or more
			Current	33 A or less
		LOW	Torque	31.4 N·m (320 kg-cm, 2.31 ft-lb) or more
			Current	29.0 A or less
Wiper blade	Length	Driver side	600 mm (23.62 in)	
		Passenger side	450 mm (17.72 in)	

REAR WIPER AND WASHER

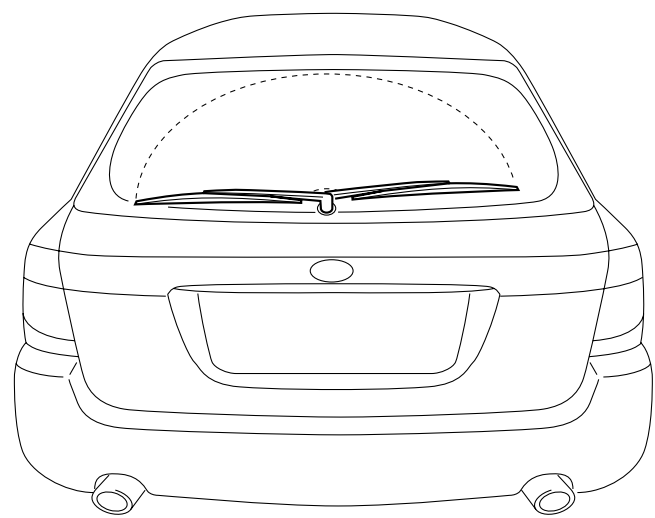
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2. Rear Wiper and Washer

A: GENERAL

1. REAR WIPER

1) The rear wiper operates over an angle of 168°.



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2) The rear wiper operates intermittently as shown in the following table only when the wiper switch is in the INT position on AT models.

Selector lever position (AT models only)	Vehicle speed km/h (MPH)	Interval (sec)
		Wagon
Reverse (R)	—	Continuous operation
Other than reverse (R)	0 — 20 (0 — 12.4)	12
	20 — 50 (12.4 — 31.1)	9
	50 — 80 (31.1 — 49.7)	6
	over 80 (49.7)	3

REAR WIPER AND WASHER

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2. REAR WASHER SYSTEM

- 1) The front and rear washers share the same washer tank.
- 2) The washer motor and pump unit is installed at the bottom of the washer tank.
- 3) The washer nozzle is installed to the lower part of the roof spoiler. The nozzle has two spray holes.
- 4) The washer nozzle is provided with a check valve, which is located just below it.

3. SPECIFICATIONS

Wiper motor	Rated voltage		12 V
	No-load current		2 A or less
	Speed [at 0.5 N·m (5 kg-cm, 4.3 in-lb)]		25 rpm or more
	Motor characteristics when bound	Torque	8.8 N·m (0.90 kgf-m, 6 ft-lb) or more
		Current	13 A or more
Wiper blade	Length		350 mm (13.78 in)