RADIATOR FAN

6. Radiator Fan A: DESCRIPTION

Each radiator fan is made of plastic. It is driven by an electric motor which is retained on a shroud.



CO-02118

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COOLING

RADIATOR FAN

- (1) Radiator lower cushion
- (2) Radiator
- (3) Radiator upper cushion
- (4) Radiator upper bracket
- (5) Clamp
- (6) Radiator hose A
- (7) Engine coolant reservoir tank cap
- (8) Overflow hose A
- (9) Engine coolant reservoir tank
- (10) Overflow pipe
- (11) Radiator main fan shroud
- (12) Radiator sub fan shroud

- (13) Radiator main fan assembly
- (14) Radiator sub fan assembly
- (15) Radiator hose B
- (16) Radiator drain plug
- (17) O-ring
- (18) Engine coolant filler tank
- (19) Radiator cap (engine coolant filler tank cap)
- (20) Engine overflow hose
- (21) Engine air breather hose
- (22) Radiator lower bracket
- (23) Overflow hose B

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RADIATOR FAN

COOLING

(3) Main fan relay 2

(4) Sub fan motor

(5) Main fan motor

To reduce fan noise, the fan output is two-stepped and can be switched to Low or High according to the load on A/C, coolant temperature, and vehicle speed. This control is accomplished by a circuit as shown below; the output is changed by switching the connection of two motors between serial and parallel instead of using components such as resistors.



- (8) ECM
- (A) From ignition switch
- (B) From battery

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B: FUNCTION

The ECM receives signals from the engine coolant temperature sensor, vehicle speed sensor and A/C switch, and based on these signals, the ECM controls the radiator fan speed to high or low.

NOTE:

Refer to the Service Manual for operation of each model.

Operation example:

Vehicle speed	A/C com- pressor load	Engine coolant temperature		
		Rising: below 94°C (201°F) Lowering: below 91°C (196°F)	Rising: between 95 and 96°C (203 and 205°F) Lowering: between 92 and 94°C (198 and 201°F)	Rising: over 97°C (207°F) Lowering: over 95°C (203°F)
		Operation of radiator fans	Operation of radiator fans	Operation of radiator fans
When accelerating: below 19 km/h (12 MPH) When decelerating: below 10 km/h (6 MPH)	OFF	OFF	Low-speed	High-Speed
	Low	Low-Speed	Low-Speed	High-Speed
	High	High-Speed	High-Speed	High-Speed
When accelerating: be- tween 20 and 69 km/h (12 and 43 MPH) When decelerating: be- tween 11 and 64 km/h (7 and 40 MPH)	OFF	OFF	Low-Speed	High-Speed
	Low	High-Speed	High-Speed	High-Speed
	High	High-Speed	High-Speed	High-Speed
When accelerating: be- tween 70 and 105 km/h (43 and 65 MPH) When decelerating: be- tween 65 and 100 km/h (40 and 62 MPH)	OFF	OFF	Low-Speed	High-Speed
	Low	High-Speed	High-Speed	High-Speed
	High	High-Speed	High-Speed	High-Speed
When accelerating: over 106 km/h (66 MPH) When decelerating: over 101 km/h (63 MPH)	OFF	OFF	High-Speed	High-Speed
	Low	High-Speed	High-Speed	High-Speed
	High	High-Speed	High-Speed	High-Speed

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