

OVERHEATING CAUSE ANALYSIS

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PFP:00012

Troubleshooting Chart

ABS009ZP

		Symptom		Check items		
Cooling system parts malfunction	Poor heat transfer	Water pump malfunction	Worn or loose drive belt	—	CO	
		Thermostat stuck closed	—			
		Damaged fins	Dust contamination or paper clogging			
			Physical damage			
		Clogged radiator cooling tube	Excess foreign material (rust, dirt, sand, etc.)		D	
	Reduced air flow	Cooling fan does not operate	Fan assembly	—	E	
		High resistance to fan rotation				
		Damaged fan blades				
		Damaged radiator shroud	—	—	—	F
		Improper engine coolant mixture ratio	—	—	—	G
		Poor engine coolant quality	—	Engine coolant viscosity	—	
	Insufficient engine coolant	Engine coolant leaks	Cooling hose	Loose clamp	H	
				Cracked hose		
			Water pump	Poor sealing		
			Radiator cap	Loose	I	
Poor sealing						
Radiator		O-ring for damage, deterioration or improper fitting	J			
		Cracked radiator tank				
		Cracked radiator core				
	Reservoir tank	Cracked reservoir tank	K			
Overflowing reservoir tank	Exhaust gas leaks into cooling system	Cylinder head deterioration	L			
		Cylinder head gasket deterioration				

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M

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		Symptom		Check items	
Except cooling system parts malfunction	—	Overload on engine	Abusive driving	High engine rpm under no load	—
				Driving in low gear for extended time	
				Driving at extremely high speed	
			Powertrain system malfunction		
			Installed improper size wheels and tires		
			Dragging brakes		
	Blocked or restricted air flow	Blocked or restricted air flow	Blocked bumper	—	—
			Blocked radiator grille	Installed car brassiere	
				Mud contamination or paper clogging	
			Blocked radiator	—	
Blocked condenser			Blocked air flow		
Installed large fog lamp					