

Troubleshooting

Problem Symptoms Table

Before replacing or repairing air conditioning components, first determine if the malfunction is due to the refrigerant charge, air flow or compressor.

Use the table below to help you find the cause of the problem. The numbers indicate the priority of the likely cause of the problem. Check each part in order. If necessary, replace these parts.

After correcting the malfunction, check the complete system to ensure that performance is satisfactory.

Standard:

Symptom	Suspected Area
No blower operation	1. Blower fuse
	2. Blower relay
	3. Blower motor
	4. Power mosfet
	5. Blower speed control switch
	6. Wire harness
No air temperature control	1. Engine coolant capacity
	2. Heater control assembly
No compressor operation	1. Refrigerant capacity
	2. A/C fuse
	3. Clutch limiter
	4. Compressor
	5. A/C pressure transducer
	6. A/C switch
	7. Evaporator temperature sensor
	8. Wire harness
Vented air not cold	1. Refrigerant capacity
	2. Refrigerant pressure
	3. Drive belt
	4. Clutch limiter
	5. Compressor

	6. A/C pressure transducer
	7. Evaporator temperature sensor
	8. A/C switch
	9. Heater control assembly
	10. Wire harness
Insufficient cooling	1. Refrigerant capacity
	2. Drive belt
	3. Clutch limiter
	4. Compressor
	5. Condenser
	6. Expansion valve
	7. Evaporator
	8. Refrigerant lines
	9. A/C pressure transducer
	10. Heater control assembly
No engine idle-up when A/C switch ON	1. Engine ECM
	2. Wire harness
No air inlet control	1. Heater control assembly
No mode control	1. Heater control assembly
	2. Mode actuator
No cooling fan operation	1. Cooling fan fuse
	2. Fan motor
	3. Engine ECM
	4. Wire harness

Specification

Air Conditioner

Item		Specification	
Compressor	Type	DVE16C	
	Oil type & Capacity	PAG30 120 ± 10g (3.85 ± 0.3oz.)	
	Pulley type	6PK-TYPE	
	Displacement	60cc/rev	
Expansion valve	Type	Block type	
Refrigerant	Type	R-134a	R-1234yf
	Capacity	600 ± 25g (19.29 ± 0.88oz)	550 ± 25g (17.68 ± 0.88oz)

Blower Unit

Item		Specification
Fresh and recirculation	Operating method	Actuator
Blower	Type	Sirocco
	Speed step	Auto + 8 speed (Automatic), 1 - 4 speed (Manual)
	Speed control	Power mosfet (Automatic), Resistor (Manual)
Air filter	Type	Particle filter

Heater and Evaporator Unit

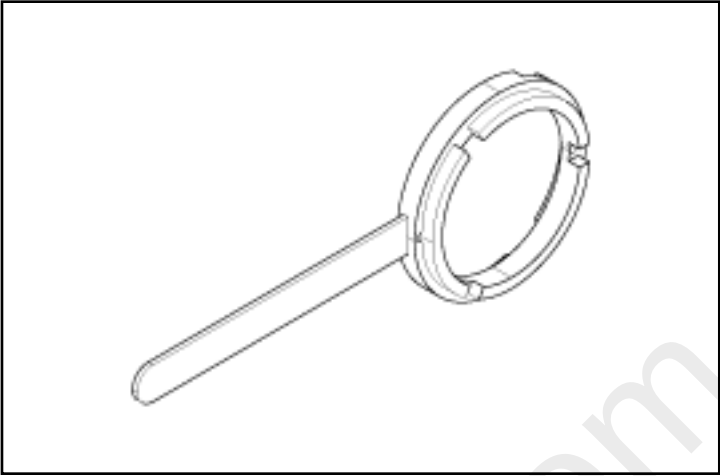
Item		Specification	
Heater	Type	Pin & Tube type	
	Mode operating method	Actuator	
	Temperature operating method	Actuator	
Evaporator	Temperature control type	Evaporator temperature sensor	
	Blower	Air conditioner output OFF temperature	Air conditioner output ON temperature

	Manual control	0 °C(32°F)	2 °C(35.6°F)
	Dual control	0 °C(32°F)	2 °C(35.6°F)

Tightening
Torques

Items	N.m	kgf.m	lb-ft
Condensor - Discharge hose	21.6 - 32.4	2.2 - 3.3	15.9 - 23.9
Condensor - Luquid hose			
Compressor	19.6 - 33.3	2.0 - 3.4	14.5 - 24.6
Compressor - Discharge hose	21.6 - 32.4	2.2 - 3.3	15.9 - 23.9
Compressor - Suction hose			
Expansion valve - Evaporator	8.8 - 13.7	0.9 - 1.4	6.5 - 10.1

Special
Tools

Tool (Number and name)	Illustration	Use
09977-3R000 Clutch bolt remover		Removal and installation of clutch bolt

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