

SPECIAL TOOLS AND EQUIPMENT

Tool	SST No.	Use
Ohmmeter	–	To diagnosis electrical system
Voltage meter	–	To diagnosis electrical system
Air conditioner service tool set	07110–58011	To evacuate and charge system
Hexagon wrench set	07110–61050	To remove and install service valve and front housing
Magnetic clutch remover	07112–66040	To remove pressure plate
Magnetic clutch stopper	07112–76060	To remove and install pressure plate
Snap ring pliers (External Type)	07114–84020	To remove and install rotor and stator

SSM (SPECIAL SERVICE MATERIALS)

Part Name	Part No.	Use etc.
DENSO OIL 6, SUNISO No. 5 GS or equivalent	07117–68040	Compressor

TROUBLESHOOTING

Problem	Possible cause	Remedy	Page
No cooling	Blower does not operate		
	(a) GAUGE fuse blown	Replace fuse and check for short	AC-4
	(b) FL blown	Replace FL and check for short	AC-4
	(c) Circuit breaker faulty	Check circuit breaker	AC-4
	(d) HEATER relay faulty	Check relay	BE-36
	(e) HEATER fuse blown	Replace fuse and check for short	AC-4
	(f) Blower motor faulty	Check blower motor	BE-37
	(g) Blower resistor faulty	Check blower resistor	BE-37
	(h) Blower switch faulty	Check blower switch	BE-36
	(i) Wiring or ground faulty	Repair as necessary	AC-4
	Magnetic clutch does not engage		
	(a) FL (30A CDS) blown	Replace FL and check for short	AC-4
	(b) Magnetic clutch relay faulty	Check relay	AC-4
	(c) Magnetic clutch faulty	Check magnetic clutch	AC-15
	(d) A/C fuse faulty	Replace fuse and check for short	AC-4
	(e) A/C switch faulty	Check switch	AC-28
	(f) Thermistor faulty	Check thermistor	AC-27
	(g) A/C amplifier faulty	Check amplifier	AC-28
	(h) Pressure switch faulty	Check switch	AC-27
	(i) Wiring or ground faulty	Repair as necessary	AC-4
	(j) Refrigerant empty	Check refrigerant pressure	AC-9,14
	Compressor does not rotate properly		
	(a) Drive belt loose or broken	Adjust or replace drive belt	AC-13
	(b) Compressor faulty	Replace compressor	AC-15

TROUBLESHOOTING (Cont'd)

Problem	Possible cause	Remedy	Page
No cooling (Cont'd)	Expansion valve faulty Leak in system Fusible plug on receiver blown or clogged screen	Check expansion valve Test system for leaks Check receiver	AC-23 AC-26 AC-21
Insufficient cooling	Condenser clogged _ Drive belt slipping Magnetic clutch faulty Compressor faulty Expansion valve faulty Thermistor faulty A/C amplifier faulty Insufficient or too much refrigerant Air or excessive compressor oil in system Receiver clogged Water valve cable set faulty	Check condenser Check or replace drive belt Check magnetic clutch Check compressor Check expansion valve Check thermistor Check amplifier Check refrigerant volume Evacuate and charge system Check receiver Reset water valve cable	AC-22 AC-13 AC-15 AC-15 AC-23 AC-27 AC-28 AC-14 AC-21 BE-35
Insufficient velocity of cool air	Evaporator clogged or frosted Air leakage from cooling unit or air duct Air inlet blocked Blower motor faulty A/C amplifier faulty	Clean evaporator fins or filters Repair as necessary Repair as necessary Replace blower motor Check amplifier	AC-25 AC-28
A/C switch indicator flashing	Drive belt slipping A/C amplifier faulty	Check or replace drive belt Check amplifier	AC-13 AC-28
Cool air comes out intermittently	Magnetic clutch slipping Expansion valve faulty Excessive moisture in the system A/C amplifier faulty Wiring connection faulty	Check magnetic clutch Check expansion valve Evacuate and charge system Check amplifier Repair as necessary	AC-15 AC-23 AC-28 AC-4
Cool air comes out only at high speed	Condenser clogged Drive belt slipping Compressor faulty Insufficient or too much refrigerant Air in system	Check condenser Check or replace drive belt Check compressor Check refrigerant volume Evacuate and charge system	AC-22 AC-13 AC-15 AC-14

Discharging of Refrigeration System

Evacuating and Charging of Refrigeration System

(See Air Conditioning Fundamentals and Repairs Pub. No. 36950E)