

Amana Technical Information—Refrigerator

SCD25TBW
SCD25TW

P1303517W
P1303516W

SXD25S2W
SQD25VW

P1303513W
P1314202W

- Due to a possibility of personal injury or property damage, always contact an authorized technician for servicing or repair of this refrigerator.
- Refer to Service Manual RS1300003 for installation, operating, disassembly, ice maker, testing, and troubleshooting information.



CAUTION

All safety information must be followed as provided in Service Manual RS1300003.



WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to refrigerator before servicing, unless testing requires power. Wires removed during disassembly must be replaced on proper terminals to insure correct grounding and polarization.

Model	SQD25VW	SXD25S2W SMD25TW SCD25TBW
Capacity	24.85 cu ft	24.6 cu ft
Electrical requirements separate circuit	115 VAC 60 Hz 15 amps	115 VAC 60 Hz 15 amps
Refrigerant type amount	R134a 5.125 oz	R134a 5.125 oz
Width without side extrusions	35.8"	35.8"
Depth with handle	32.4"	32.4"
Height including top hinge cap	67.4"	67.4"



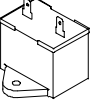
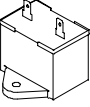
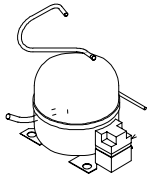
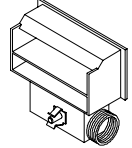
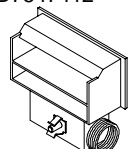
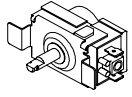

No Load Performance Controls in Normal Position

	Kw/24hr ± 0.4			Percent Run Time $\pm 10\%$			Cycles/24 hr $\pm 25\%$			Refrigerator Center Compartment Food Average Temperature $\pm 3^\circ\text{F}$			Freezer Compartment Food Average Temperature $\pm 3^\circ\text{F}$		
	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°
25 Cu Ft	2	3	4	34	57	100	34	30	0	39	40	40	1	2	2

Temperature Relationship Test Chart

	T-1 Outlet $\pm 3^\circ\text{F}$		T-1 Inlet $\pm 3^\circ\text{F}$		T-3 Suction Line $\pm 7^\circ\text{F}$		Average Total Wattage $\pm 10\%$		Suction Pressure $\pm 2\text{ PSIG}$		Head Pressure $\pm 5\text{ PSIG}$	
	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°
25 Cu Ft	-12	-12	-14	-13	67	93	171	177	1	1	85	135

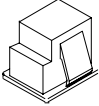


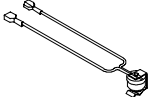
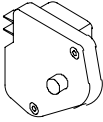
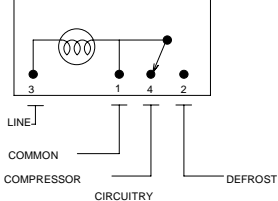
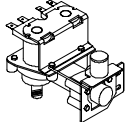
Component Specifications

Part Number	Component Name	Test Procedures
A0282803 	Bulb	Volt 115/125 VAC Watt 40 watts
M0360001 	Bulb	Volt 115/125 VAC Watt 6 watts
C8931604 	Capacitor, compressor run	Volt 220 VAC Capacitance 15 Mfd +10% -5%
C8931605 	Capacitor, auger motor Used on: SCD25TBW SQD25VW	Volt 220 VAC Capacitance 17 Mfd +10% -5%
12049702 	Compressor	Type Fan cooled, R134a refrigerant BTUH 970 BTUH Volt 115 VAC, 60 Hz Watt 176 watts Current Lock rotor 21.3 amps Full load 1.6 amps Resistance Run windings 2.60 ohms Start windings 4.35 ohms
D7547411 	Control, damper Used on: SQD25VW	Settings #1 49°F #4 42°F #7 33°F
D7547412 	Control, damper Used on: SCD25TBW SMD25TW	Settings #1 47°F #4 40°F #7 30°F
R0161092 	Control, freezer temperature	Settings #1-in 10°F #1-out -11°F #4-in 13°F #4-out -6°F #7-in 21°F #7-out -5°F
B2150504 	Drier	Drier must be changed every time the system is opened for testing or compressor replacement. Desiccant (20) 8 x 12 4AXH - 7 M>S> -Grams
10882105	Heater, cavity	Volt 115 VAC Watt .667 ±7.5% watts Resistance 6.61 ±7.5% ohms
12049801	Heater, evaporator	Volt 115 VAC

Component Specifications

Part Number	Component Name	Test Procedures
		Wattage 7 ±7.5% watts Resistance 1.89 ±7.5% Kohms
10114804	Motor, auger Used on: SCD25TBW SQD25W	Volt 115 VAC, 60 Hz Rotation (facing shaft) Power to blue and white leads is clockwise Power to white and orange leads is counterclockwise RPM 13-17 RPM Watt 165-175 watts Bimetal Cut-out Opens 266° ±9°F Closes 185° ±9°F
10884501	Motor, condenser	Volt 115 VAC, 60 Hz Rotation (facing end opposite shaft) Clockwise RPM 1300 RPM Watt 10.0 watts Current 0.15 amps Resistance 220 ±10% ohms
10513803	Motor, evaporator fan	Volt 115 VAC, 60 Hz Rotation (facing end opposite shaft) Clockwise RPM 2500 RPM Watt 12 ±15% watts
10377015	Overload, 4TM	Volt 115 VAC Ult. trip amps @158°F (70°C) 3.51 amps Close temperature 142°F (61°C) ±9° Open temperature 257°F (125°C) ±5° Short time trip (seconds) 10 seconds ±5 Short time trip amps @77°F (25°C) 14 amps
10097202	Relay, ptc	Resistance With power off check: Across terminals 2 & 3 3-12 ohms Shorted 0 ohms Open Very high or infinite ohms
10166101	Switch, cavity light Used on: SCD25TBW SQD25VW	Type SPST Volt 250 VAC Current 4 amps
10166102	Switch, crushed/cubed ice Used on: SQD25VW	Type SPST Volt 250 VAC Current 6 amps
10166103	Switch, crushed/cubed ice Used on: SCD25TBW	Type SPST Volt 250 VAC Current 6 amps
C3680304	Switch, refrigerator light	Type DPST NC Volt 125/250 VAC Current 5/2.5 amps

Component Specifications

Part Number	Component Name	Test Procedures	
C3680312 	Switch, auger motor interlock/freezer light	Type Volt Current	SPDT 125/250 VAC 5.0/5.0 amps
10533001 10533002 	Switch, limit, cavity light, and dispensing arms	Type Volt Current	SPST, NO 125/250 VAC 10 amps
10533003 	Switch, limit, cavity light, and dispensing arms Used on: SCD25TB SQD25VW	Type Volt Current	SPST, NO 125/250 VAC 10 amps
12017823 	Thermostat	Volt Watt Current Resistance across terminals Above 48° ±5°F Below 15° ±7°F Between 48° ±5°F and 15° ±7°F	120/240 VAC 1000 watts 10/5 amps Open Closed Will stay in current state (either open or closed) until either 48° ±5°F or 15° ±7°F is reached.
10530702 	Timer, defrost	Defrost period (minutes) Defrost cycle (hours)	33 ±3.6 8 
12185504 	Valve, water	Volt Watt Water pressure (inlet) Max Min Fill rate	120 VAC, 60 Hz 20 watts 120 PSI 20 PSI 140 ± 10 CC's at 7.5 seconds

Schematic Diagram

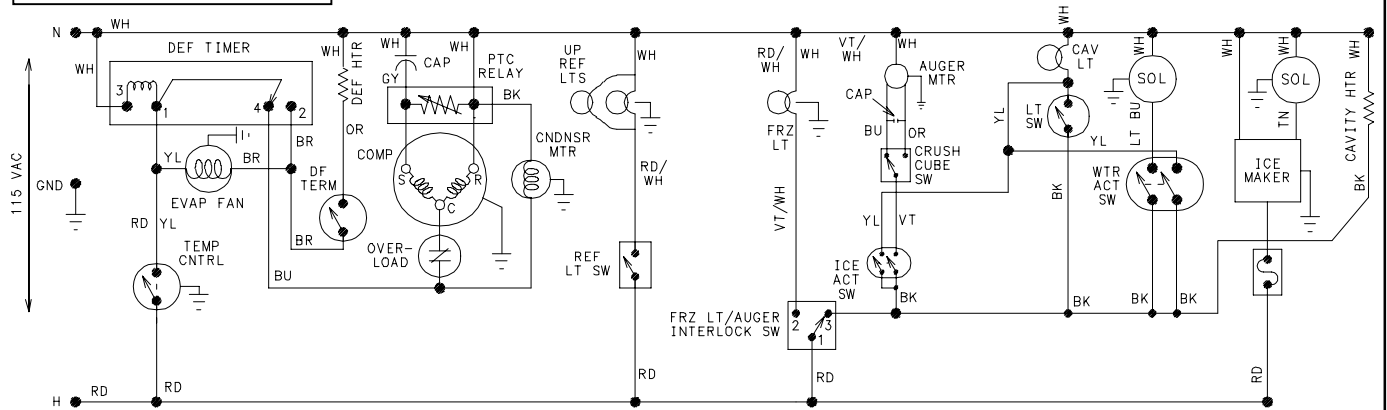


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CAUTION High Voltage



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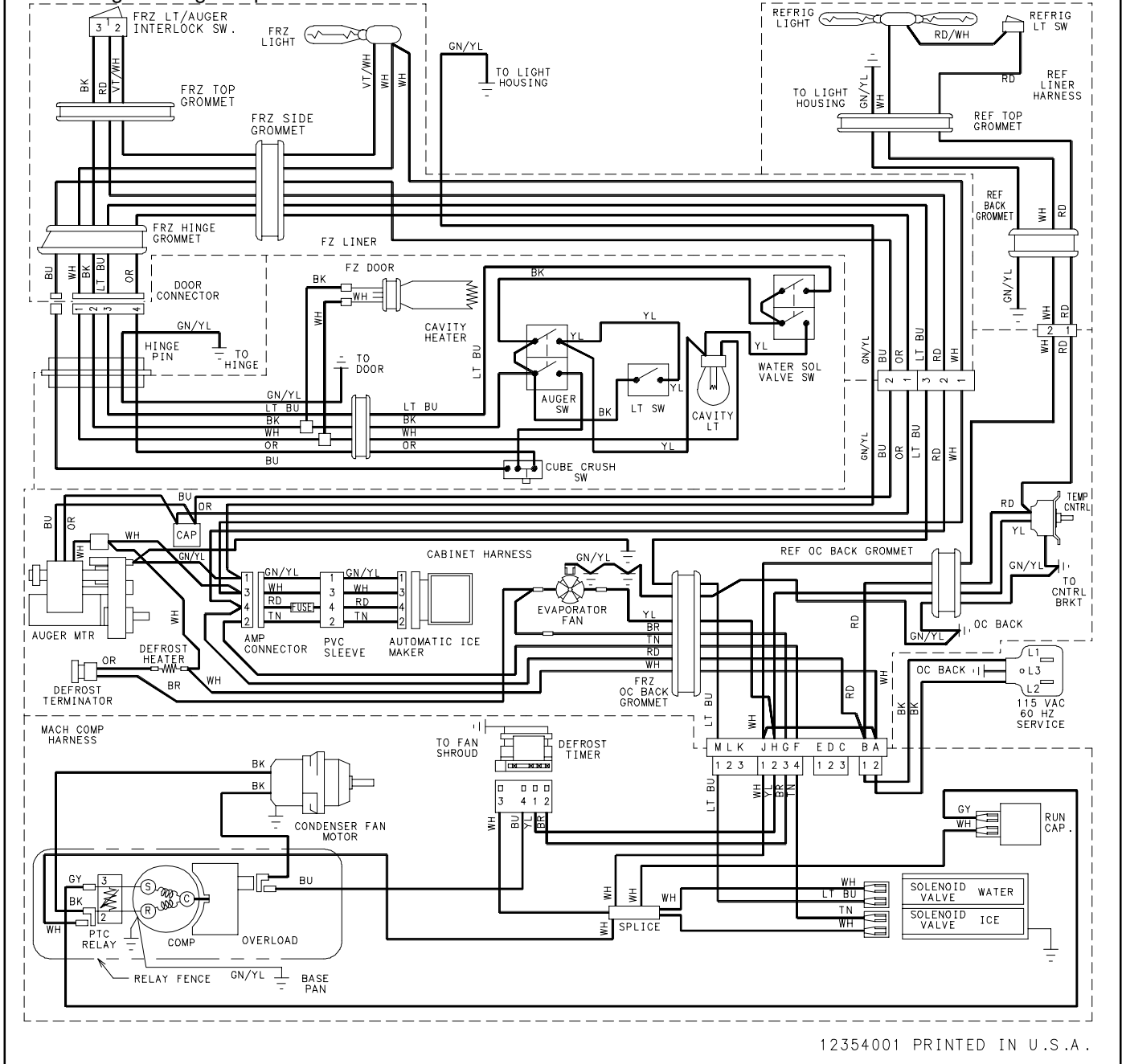
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Wiring Diagram



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