

Amana Technical Information—Refrigerator

TN22C P1300704W

- 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 RS1000001 for installation, operating, disassembly, ice maker, testing, and troubleshooting information.



CAUTION

All safety information must be followed as provided in Service Manual RS1000001.



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	TN22C
Capacity	21.6 cu ft
Electrical requirements separate circuit	115 VAC 60 Hz 15 amps
Refrigerant type	R134a
Width without side extrusions	32.6"
Depth without handle includes door extrusions	34.3"
Height including top hinge cap	67.3"

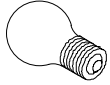
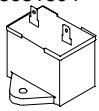
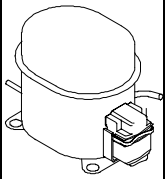
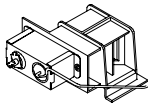
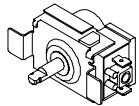

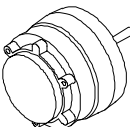
No Load Performance Controls in Normal Position

	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°
22 Cu Ft	1	2	3	22	36	60	40	38	25	35	40	35	2	1	1

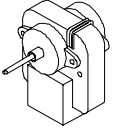
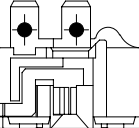
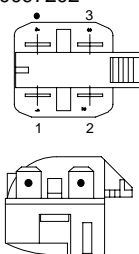
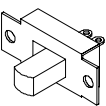
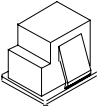
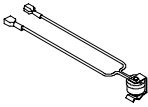
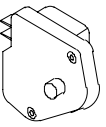
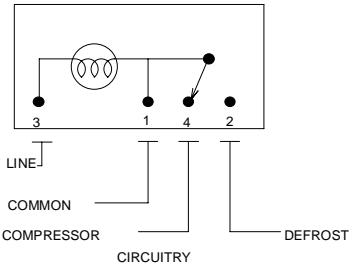
Temperature Relationship Test Chart

	T-1 Outlet $\pm 3^\circ\text{F}$		T-2 Inlet $\pm 3^\circ\text{F}$		T-3 Suction Line $\pm 7^\circ\text{F}$		Average Total Wattage $\pm 10\%$		Suction Pressure ± 2 PSIG		Head Pressure ± 5 PSIG	
Ambient °F	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°	65°	110°
22 Cu Ft	-10	-14	-16	-13	65	90	169	177	1	2	87	135

Component Specifications

Part Number	Component	Specifications
A0282803 	Bulb	Volt 115/125 VAC Watt 40 watts
C8931604 	Capacitor, compressor run	Volt 220 VAC Capacitance 15 Mfd +10% -5%
12049703 	Compressor	Type Fan Cooled, R134a refrigerant BTUH 850 BTUH Volt 115 VAC, 60 Hz Watt 155 watts Current Lock rotor 21.3 amps Full load 1.5 amps Resistance Run windings 2.60 ohms Start windings 4.35 ohms
R0161072 	Control, damper	Settings Closing temperatures #1 43°F #4 30°F #7 16°F
R0161075 	Control, freezer temperature	Settings Temperatures #1 - in 15° ±3°F #1 - out 6° ±3°F #4 - in 6.5° ±1.5°F #4 - out -4° ±1.5°F #7 - in 2° ±3°F #7 - out -9.5° ±3°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
10543602	Heater, moisture control (mullion)	Volt 115 VAC Watt 5.8-7.2 ±7.5% watts Resistance 2280-1837±7.5% ohms
10991106	Heater, evaporator	Volt 115 VAC Wattage 450 ±5% watts Resistance 29.4 ±5% ohms
10884501 	Motor, condenser	Volt 115 VAC, 60 Hz Rotation (facing end opposite shaft) Clockwise RPM Watt 1300 RPM Current 10.0 watts Resistance 0.15 amps 220 ±10% ohms

Component Specifications

Part Number	Component	Specifications
10449501 	Motor, evaporator fan	Volt 115 VAC, 60 Hz Rotation (facing end opposite shaft) Clockwise RPM 3050 RPM Watt 8.3 ± 15% watts
10377015 	Overload, 4TM	Volt 115 VAC Ult. trip amps @ 158°F (70°C) 3.51 amps Close temperature 142°F (61°C) ±5°C Open temperature 257°F (125°C) ±3.5°C 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
M0350201 	Switch, moisture control (mullion heater)	Type SPST Volt 125 VAC Current 5 amps
C3680304 	Switch, light	Type DPST NC Volt 125/250 VAC Current 5/2.5 amps
10442408 	Thermostat	Volt VAC Watt 1000 watts Current 10 amps Resistance across terminals Above 60° 5±°F Open Below 37° ±7°F Closed Between 60° ±5°F and 37° ±7°F Will stay in current state (either open or closed) until either 60° 5±°F or 37° ±7°F is reached.
10428601 	Timer, defrost	Volt 120 VAC, 60 Hz Defrost period (minutes) 33 ±3.6 Defrost cycle (hours) 10 

Wiring Diagrams and Schematics

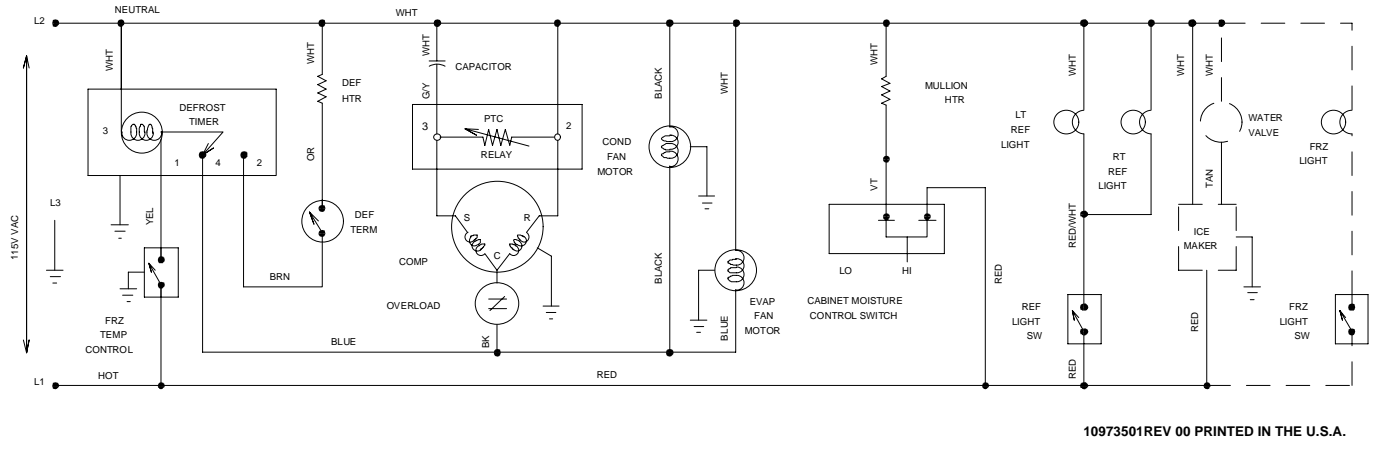


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CAUTION High Voltage



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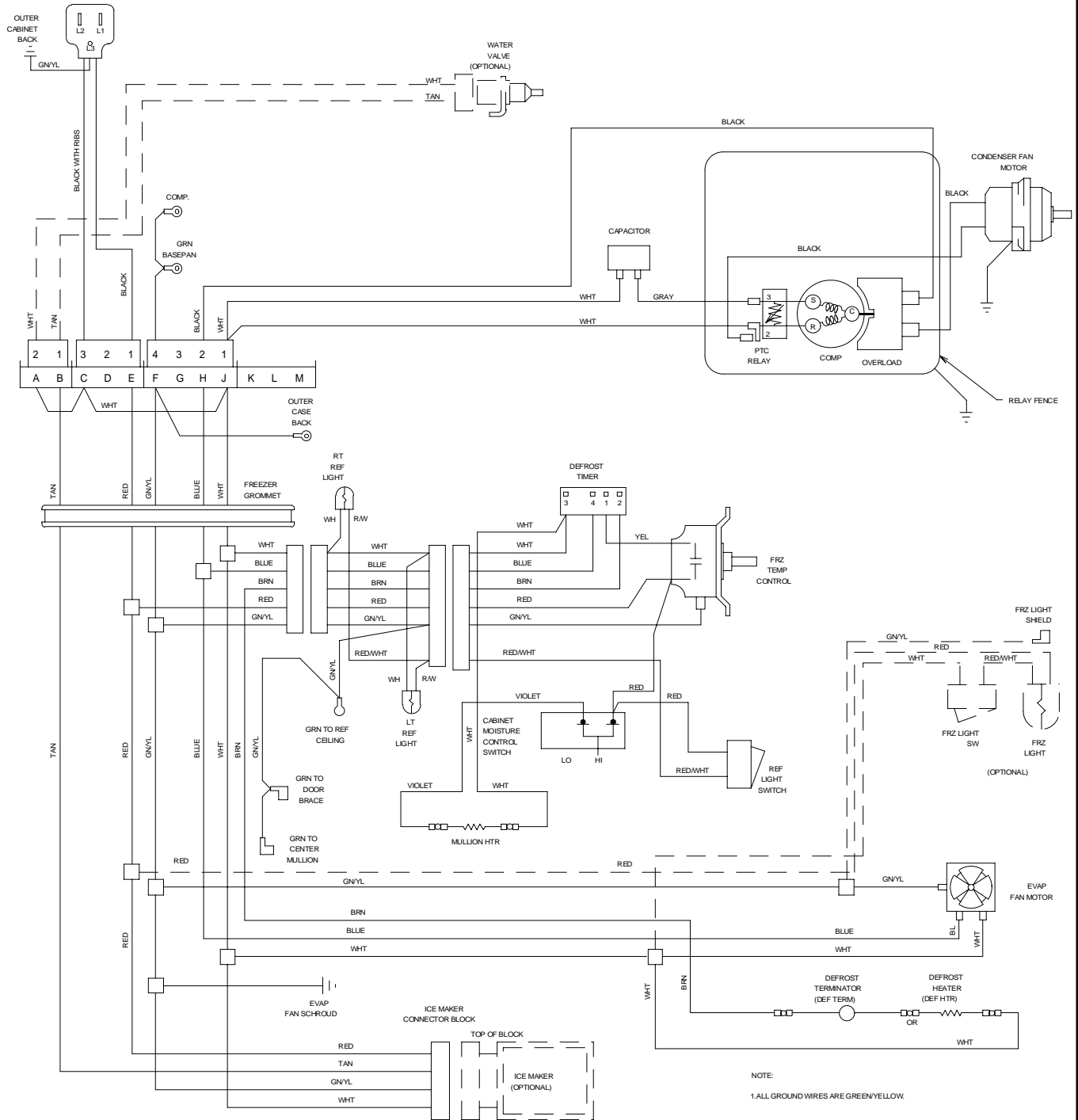
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