

Amana Technical Information—Refrigerator

BRD18V2C P1326503W C, P1326504W C
 BRD18V2E P1326503W B, P1326504W B
 BRD18V2S P1326503W S, P1326504W S
 BRD18V2W P1326503W W, P1326504W W

- Due to a possibility of personal injury or property damage, always contact an authorized technician for service or repair of this refrigerator.
- Refer to Service Manual RS1200004 for installation, operating, disassembly, icemaker, testing, and troubleshooting information.

⚠ CAUTION
All safety information must be followed as provided in Service Manual RS1200004.

⚠ WARNING
To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless testing is required. Discharge capacitors through a 10,000 ohm resistor before handling. Wires removed during disassembly must be replaced on correct terminals to ensure proper grounding and polarization.

Model	BRD18V2
Capacity	18.0 cu ft
Electrical Requirements (separate circuit)	115 VAC, 60 Hz, 15 amps
Refrigerant Type	R134a
Width (without side extrusions)	29.6"
Depth (without door handle)	30.9"
Height (including top hinge cap)	66.3"

No-Load Performance, Controls in Normal Position															
	Kw/24 hr ± 0.4			Percent Run Time ± 10%			Cycles/24 hr ± 25%			Refrigerator Compartment Average Food Temperature ± 3°F			Freezer Compartment Average Food Temperature ± 3°F		
Ambient °F	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°
18 cu ft	0.9	1.7	3.1	21	38	66	28	25	14	36	40	42	3	3	2

Temperature Relationship Test Chart												
	T-1 Outlet ± 3°F		T-2 Inlet ± 3°F		T-3 Suction Line ± 7°F		Average Total Wattage ± 10%		Suction Pressure ± 2PSIG		Head Pressure ± 5PSIG	
Ambient °F	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°	65°	110°

Component Specifications



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



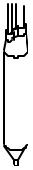
18 cu ft	-16	-14	-15	-13	68	97	145	150	0	1	85	135
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Component Specifications



WARNING



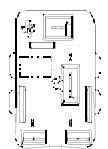
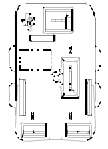
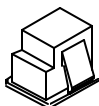


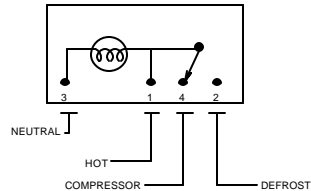
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Illustration	Component	Test Procedure	
A0282803 -40W A0282807 -60W 	Bulb	Volt Watt	115/125 VAC 40 watts 60 watts
C8931612 	Compressor run capacitor	Volt Capacitance	220 VAC 15 Mfd +10% -5%
12555802 	Compressor (used in) P1326503W B P1326503W C P1326503W S P1326503W W	Type BTUH Volt Watt Current Lock rotor Full load Resistance Run windings Start windings	Fan cooled, R134a refrigerant 901 BTUH 115 VAC, 60 Hz 162 watts 11.9/19.2 amps 1.31 amps 3.37 ohms 4.64 ohms
12049717 	Compressor (used in) P1326504W B P1326504W C P1326504W S P1326504W W	Type BTUH Volt Watt Current Lock rotor Full load Resistance Run windings Start windings	Fan cooled, R134a refrigerant 865 BTUH 115 VAC, 60 Hz 152 watts 19.5 amps 1.35 amps 2.79 ohms 4.49 ohms
R0161050 	Damper control,	Settings #1 #4 #7	Closing temperatures 38°F 31°F 24°F
C8946703 	Freezer temperature control	Settings #1 – in #1 – out #4 – in #4 – out #7 – in #7 – out	Temperatures 10.0°F ±3° 1.0°F ±3° 4.5°F ±1.5° -6.5°F ±1.5° 0.0°F ±3° -12.0°F ±3°
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	

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Illustration	Component	Test Procedure	
10522105 	Condenser motor	Volt Rotation (facing end opposite shaft) RPM Watt Current Resistance	115 VAC, 60 Hz Clockwise 1300 RPM 6.4 watts .05 amps 480 ± 10% ohms
12442205 	Evaporator fan motor	Volt Rotation (facing end opposite shaft) RPM Watt	115 VAC, 60 Hz Clockwise 3100 RPM 8.3 ± 15% watts
12555901 	Overload/Relay (used in) P1326503W B P1326503W C P1326503W S P1326503W W	Volt Ult. trip amps @ 158°F (70°C) Close temperature Open temperature Short time trip (seconds) Short time trip (amps @ 77°F 25°C)	115 VAC 3.51 amps 142°F ±9° 239°F ±5° 10 seconds ±5 11.8 amps
12555902 	Overload/Relay (used in) P1326504W B P1326504W C P1326504W S P1326504W W	Volt Ult. trip amps @ 158°F (70°C) Close temperature Open temperature Short time trip (seconds) Short time trip (amps @ 77°F 25°C)	115 VAC 3.51 amps 142°F ±9° 257°F ±5° 10 seconds ±5 14 amps
C3680310 12466101 	Light switch Interlock light switch (Freezer)	Type Type Volt Current	DPST NC SPDT NONC 125/250 VAC 5.0/2.5 amps
10442411 	Thermostat	Volt Watt Current Resistance across terminal Above 55°F ±6° Below 20°F ±8° Between 55°F ±6 and 20°F ±8°	120 VAC 1000 watts 10 amps Open Closed Will stay in current state (open or closed) until either 55°F ±6 or 20°F ±8° is reached.
10530703 	Defrost timer	Volt Defrost period (minutes) Defrost cycle (hours)	120 VAC, 60 Hz 33 ± 3.6 8 

Wiring Diagram and Schematic



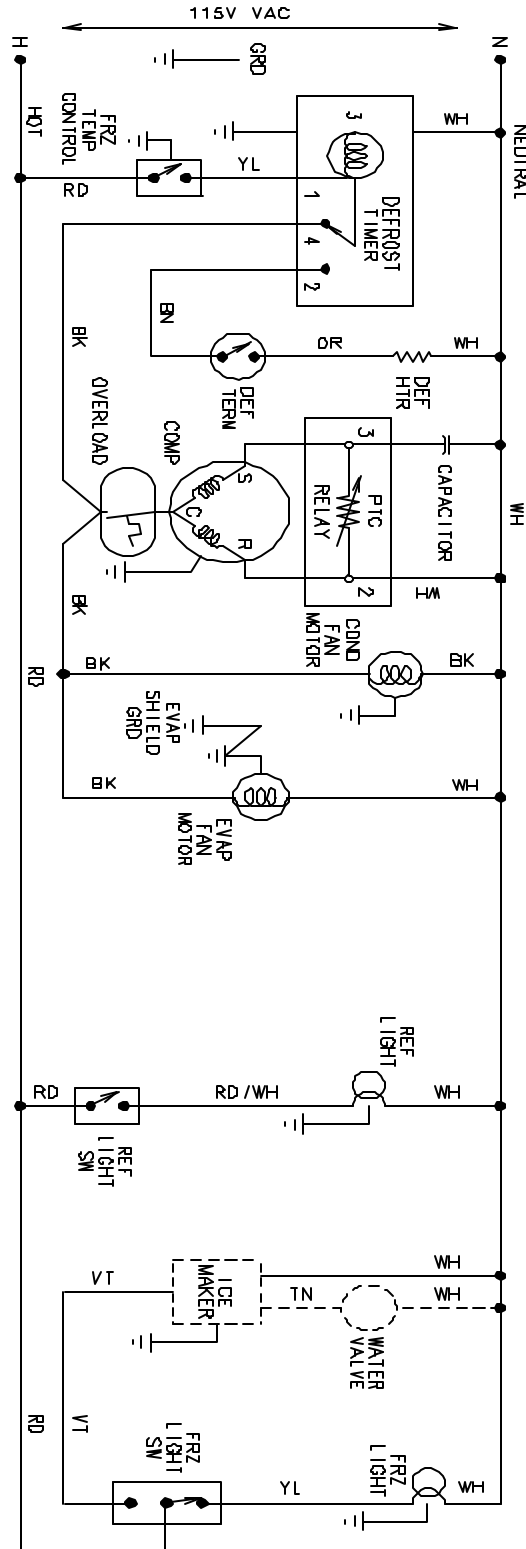
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