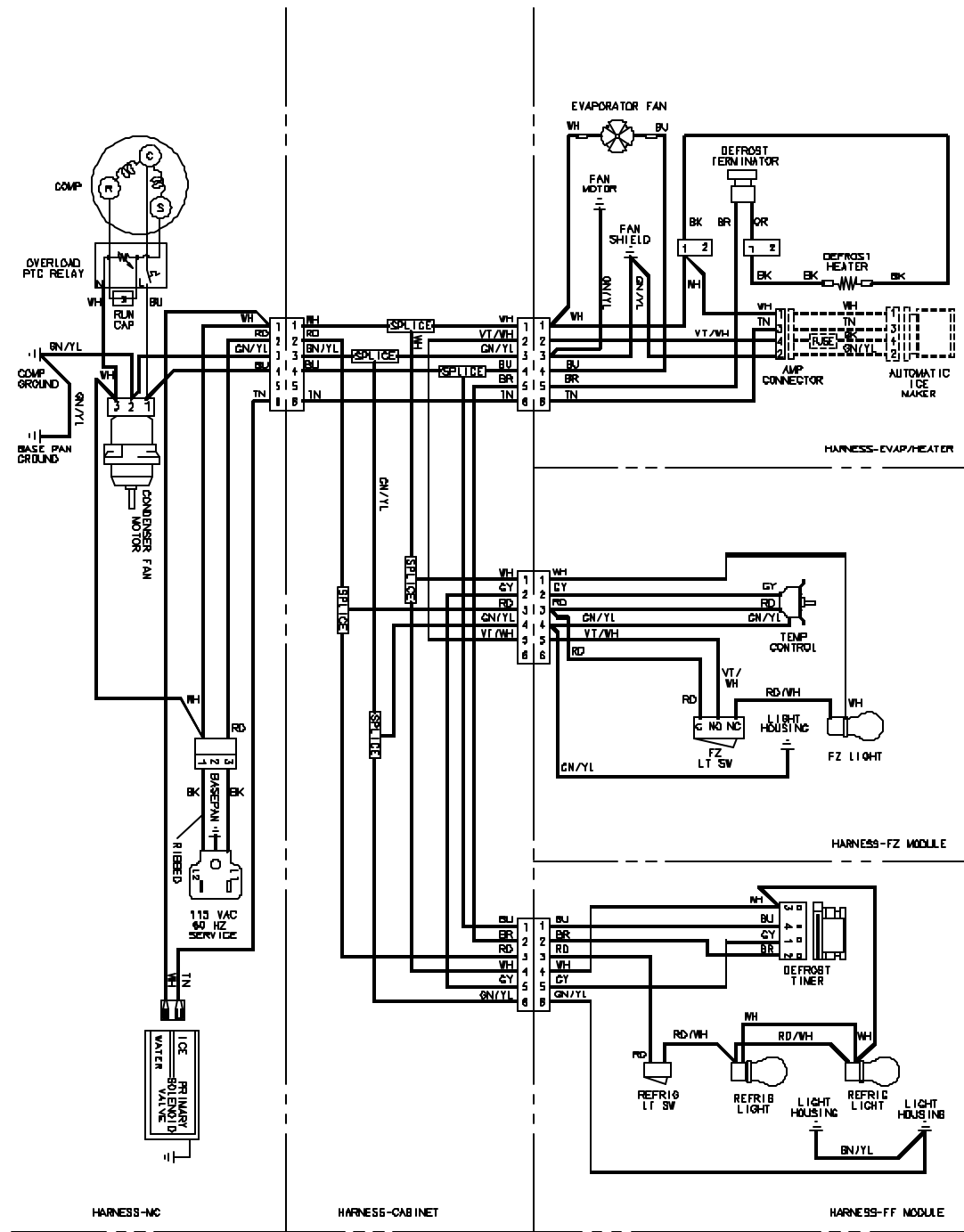


Wiring Diagram

WARNING

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



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Amana Technical Information ³/₄ Refrigerator

- ARB1905C* PARB1905CB0, PARB1905CC0, PARB1905CW0
- ARB1917C* PARB1917CB1, PARB1917CC1, PARB1917CS0, PARB1917CW1
- ARB2205C* PARB2205CB0, PARB2205CC0, PARB2205CW0
- ARB2214C* PARB2214CB1, PARB2214CC1, PARB2214CS1, PARB2214CW1
- ARB2217C* PARB2217CB0, PARB2217CC0, PARB2217CS0, PARB2217CW0
- DRB1901C* PDRB1901CC0, PDRB1901CW0
- DRB2201C* PARB2201CC0, PARB2201CW0

- 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 RS1200005 for installation, operating, disassembly, icemaker, testing, and troubleshooting information.

CAUTION

All safety information must be followed as provided in Service Manual RS1200005.

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.

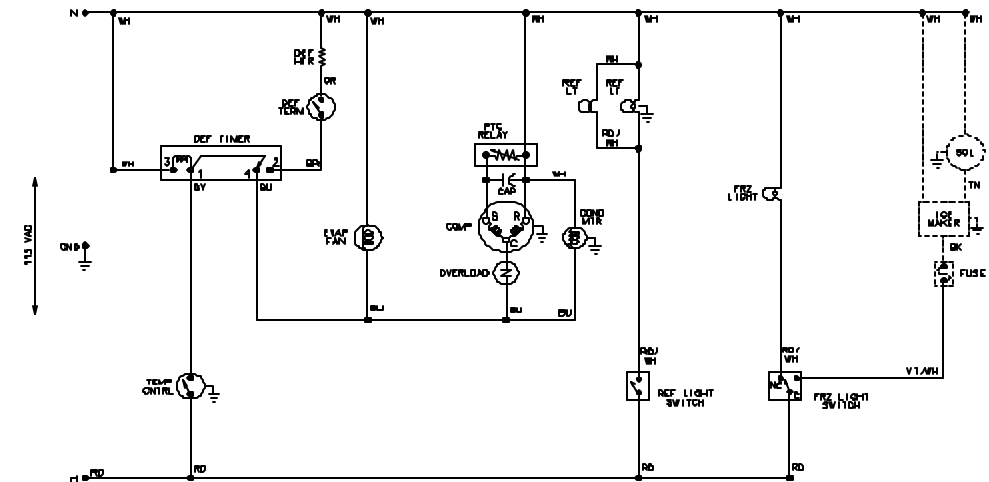
No-Load Performance, Controls in Normal Position

	Kw/24 hr ±0.4			Percent Run Time ±10%			Cycles/24 hr ±25%			Refrigerator Center Average Food Temperature ±3° F			Freezer Compartment Average Food Temperature ±3° F		
	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°
Ambient ° F	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°	65°	90°	110°
19 cu ft	.9	1.4	2.0	25	40	60	33	30	24	38	40	42	0	0	0
22 cu ft	.9	1.5	2.1	25	40	60	30	27	22	38	40	42	0	0	0

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 ±2 in. Hg		Head Pressure ± 5 PSIG	
	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°
Ambient ° F	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°	65°	90°
19 cu ft	-15	-14	-15	-14	65	95	135	140	0	1	83	135
22 cu ft	-15	-14	-15	-14	65	95	135	140	0	1	83	135

Schematic



Component Specifications

WARNING

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Part Number	Component	Specifications all parts 115VAC/60HZ unless noted	
C8931612	Compressor run capacitor	Volt.....	210/220 VAC
		Capacitance	15 µfd ± 10%
12049717	Compressor	BTUH	865 BTUH
		Watt	60 Hz / 168 watts
		Current Lock rotor.....	19.5 amps ± 15%
		Current Full load.....	1.35 amps ± 15%
		Resistance Run windings.....	2.79 ohms ± 15%
		Resistance Start windings.....	4.49 ohms ± 15%
12571702	Damper control	Settings	Closing temperatures
		#1	34.0°F
		#4	27.0°F
		#7	20.0°F
12351008	Freezer temperature control	Settings	Temperatures
		#1 – out.....	-0.6°F ±3°
		#4 – in	10.0°F ±1.5°
		#4 – out.....	-8.0°F ±1.5°
		#7 – out.....	-17.9°F ±3°
10884507	Condenser motor	Rotation (facing end opposite shaft)	Clockwise
		RPM.....	1100 RPM
		Watt.....	8.6 watts ± 15% @ 115VAC
		Current.....	0.11 amps ± 15% @ 115VAC
10449510	Evaporator fan motor	Rotation (facing end opposite shaft)	Clockwise
		RPM.....	2800 RPM
		Watt.....	5.9 ± 15% watts @ 115VAC
12555902	Overload/Relay	Ult. trip amps @ 158°F (70°C).....	3.51 amps ± 15%
		Close temperature.....	142°F ±6°
		Open temperature.....	257°F ±3°
		Short time trip (seconds).....	10 seconds ±5
		Short time trip (amps @ 77°F (25°C))...	14 amps ± 2amps
12639301	Thermostat	Volt	120/240 VAC
		Watt	1000 watts
		Current.....	10/5 amps
		Resistance across terminals:	
		Above 42°F ±5°	Open
		Below 12°F ±7°	Closed
12049801	Evaporator heater	Volt.....	115 VAC
		Wattage.....	450 ±5% watts @ 115VAC
		Resistance.....	29 ±5% ohms
12566301	Defrost timer	Volt.....	120VAC, 60 HZ
		Defrost period (minutes).....	33 ± 3.6
		Defrost cycle (hours).....	8
C3680310	Light switch	Type.....	SPST NC
		Volt.....	125/250 VAC
		Current.....	8 / 6 amps
12466103	Light switch / Interlock	Type.....	SPDT NO/NC
		Volt.....	125/250 VAC
		Current.....	8 / 6 amps

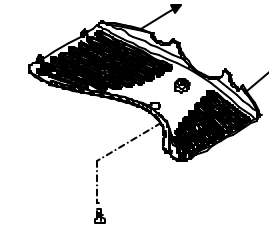
Damper Replacement

WARNING

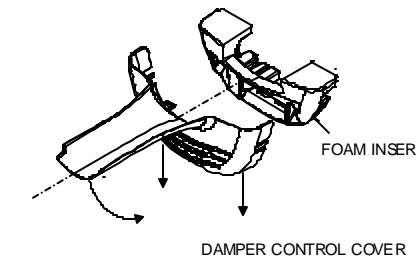
To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless tests require power. Discharge capacitors through a 10,000-ohm resistor before handling. Wires removed during disassembly must be replaced on connect terminals to ensure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

Replacing Damper Control

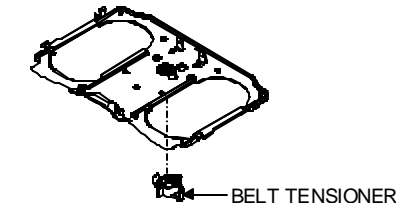
1. Remove lens cover by removing hex head screw in lens cover. Slide cover rearward and drop down to remove.



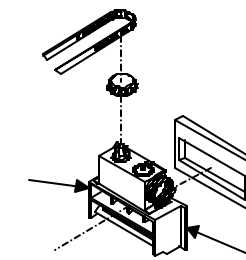
2. Remove damper control cover and foam insert by pulling straight down on sides of rear cover and tilt forward approximately ½" to 1". This will release the cover from the tabs holding it in place.



3. Release tension on damper control belt by squeezing tabs on bottom of belt tensioner to release tensioner from its holding tabs.



4. Damper can be removed by pushing in tabs on left and right side of damper control to release damper from rear wall.



5. Install new damper in reverse order. When installing belt align large slots on belt with large cogs on damper and control knob gear. This will synchronize control knob with damper control.
6. Install belt tensioner on mounting tabs and turn counter clockwise to increase tension on belt.
7. Reinstall damper control cover by hooking bottom on tabs and rotating up until it snaps into place.
8. Reinstall lens by sliding lens cover forward on tabs and installing hex head screw.