

SERVICE AND WIRING SHEET

2217549JY



WARNING

ELECTRICAL SHOCK HAZARD

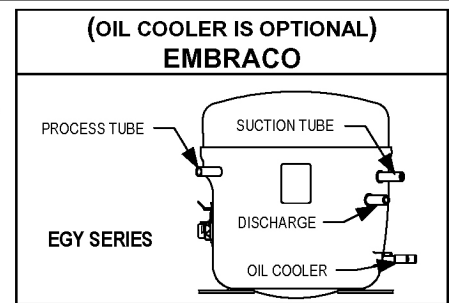
Disconnect electrical power before servicing

Failure to do so can result in death or electrical shock

PERFORMANCE DATA (NORMAL OPERATING CONDITIONS)			
AMB	WATTS	SYSTEM PRESSURE (PSIG)	
		HIGH SIDE	LOW SIDE
70°	160 ± 20	95 ± 20	-7 TO 3
90°	170 ± 20	135 ± 20	-4 TO 3
110°	190 ± 20	185 ± 20	-2 TO 4

* Normal operating conditions are viewed when the air and temperature controls are at mid-setting, freezer section 0 to -5°F and unit is cycling.

NOTE: Watt and pressure readings will vary and are influenced by the existing condition of the appliance, such as iced-up evaporator, condition of condenser, defrost cycle, pull-down time and customer use.



SERVICE INFORMATION (2210097 REV B)

1. COMPRESSOR SUCTION AND PROCESS STUBS MAY NOT BE INTERCHANGED UNLESS INDICATED BY **.
2. REFRIGERANT CHARGE MUST BE APPLIED TO HIGH SIDE ONLY.
3. ICE MAKER AND WATER VALVE NOT ORIGINAL EQUIPMENT ON ALL MODELS.
4. CAUTION: ICE MAKER CYCLE MUST BE INITIATED ELECTRICALLY. DO NOT TRY TO MANUALLY START CYCLE.
5. SERVICE DEFROST BIMETALS - 50°F OPEN.
6. DEFROST TIMER MAY CONTAIN A CAPACITOR IN SERIES WITH MOTOR. DO NOT CONTINUITY TEST WHEN CHECKING FOR FAILED TIMER MOTOR. INSTEAD, ENERGIZE TIMER AND LISTEN FOR GEAR MOVEMENT.
7. PART NUMBER CAN BE FOUND ON THE COMPONENT.

SERVICEABLE ELECTRICAL PARTS MATRIX (COMPONENTS BY CUBIC FOOT SIZE)

SERVICEABLE PARTS	14, 15 and 16 CU. FT.		18 CUBIC FOOT		WATTAGE		RESISTANCE	
	120V		120V		120V		120v	
COMPRESSOR	2216049		2216049					
RUN WINDINGS	*		*				1-5	
START WINDINGS	*		*				3-11	
PTC RELAY	2213763		2213763					
OVERLOAD	2214067		2214067					
RUN CAPACITOR (OPT)	See note 7		See note 7					
THERMOSTAT	2183403		2201754					
DEFROST TIMER ** (OPT)	2162044							
ADAPTIVE DEFROST ** (OPT)	2188160		2188160					
DEFROST HEATER	2176942		2176942		450-500		28-32	
DEFROST BI-METAL	2183073		2183073					
EVAPORATOR FAN	2201212		2201212		5-10			

** PRIMARY SOURCE PART NUMBER

STEPS TO ENTER ELECTRONIC DEFROST CONTROL TEST MODE (IF APPLICABLE)

OPTION #1 (BI-METAL CLOSED)

STEPS

- #1 - POWER OFF TO REFRIGERATOR FOR AT LEAST 30 SECONDS
- #2 - THERMOSTAT OFF
- #3 - POWER ON TO REFRIGERATOR

OPTION #2 (BI-METAL CLOSED)

STEPS

- #1 - THERMOSTAT OFF 15 SECONDS
- #2 - THERMOSTAT ON 5 SECONDS
(REPEAT STEPS 1 & 2 TWO MORE TIMES)
- #3 - THERMOSTAT OFF

ENTER TEST MODE

IN 3 - 8 SECONDS, CONTROL WILL TURN ON DEFROST HEATER. DEFROST HEATER WILL TURN ON FOR 21 MINUTES OR UNTIL BI-METAL OPENS. TO TERMINATE TEST EARLY, REMOVE POWER FROM REFRIGERATOR.

NOTE: IF OPTION #2 DOES NOT WORK, TRY OPTION #1 BEFORE REPLACING CONTROL. ALWAYS CHECK CONNECTIONS BEFORE REPLACING CONTROL.

HELPFUL HINT: UPON ENTERING TEST MODE, A RELAY TURNS OFF THE COMPRESSOR AND TURNS ON THE DEFROST TIMER. LISTEN FOR THE RELAY TO CLICK. IF RELAY CLICKS ONCE UPON ENTERING TEST MODE, CHECK FOR DEFROST HEAT. IF RELAY CLICKS TWICE, CHECK FOR BI-METAL OPEN.

WARNING IF BI-METAL IS BY-PASSED FOR TESTING (IF APPLICABLE), DO NOT OVERHEAT EVAPORATOR AREA.

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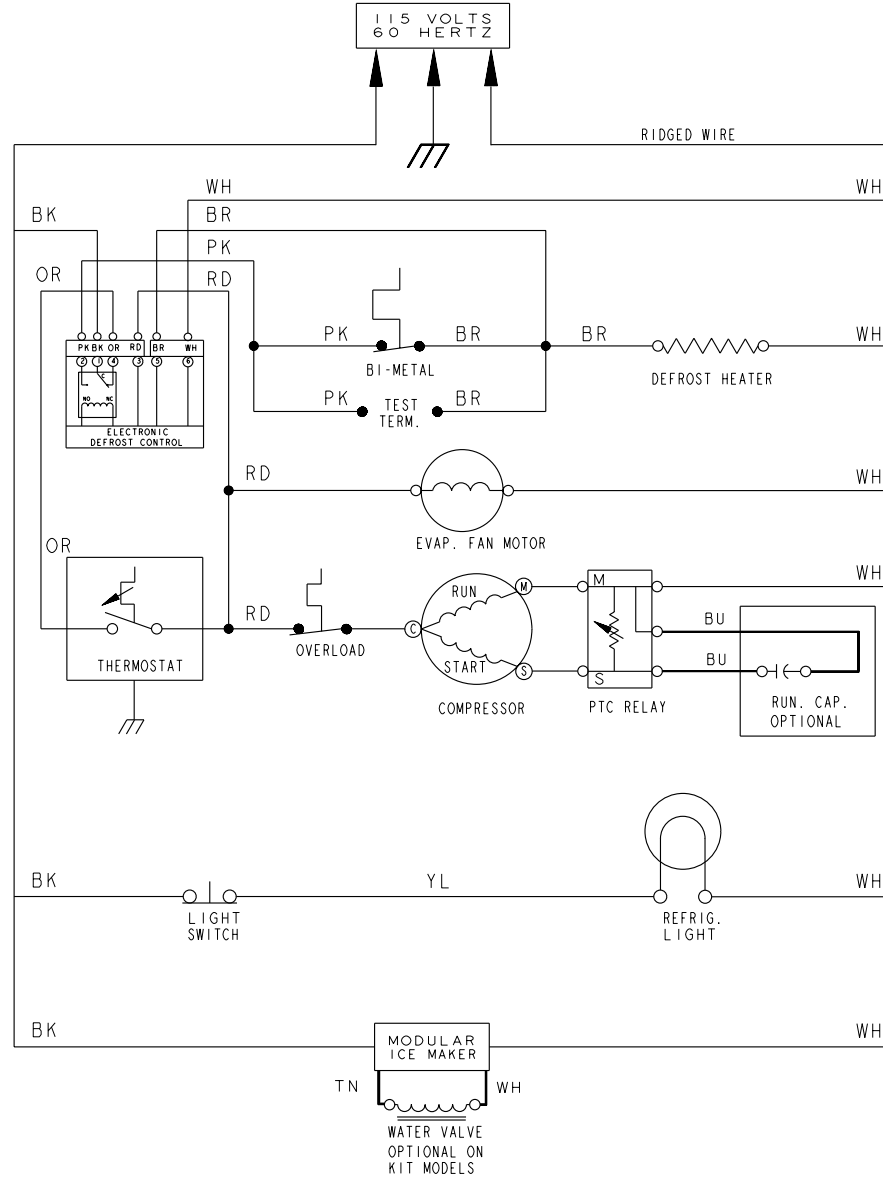
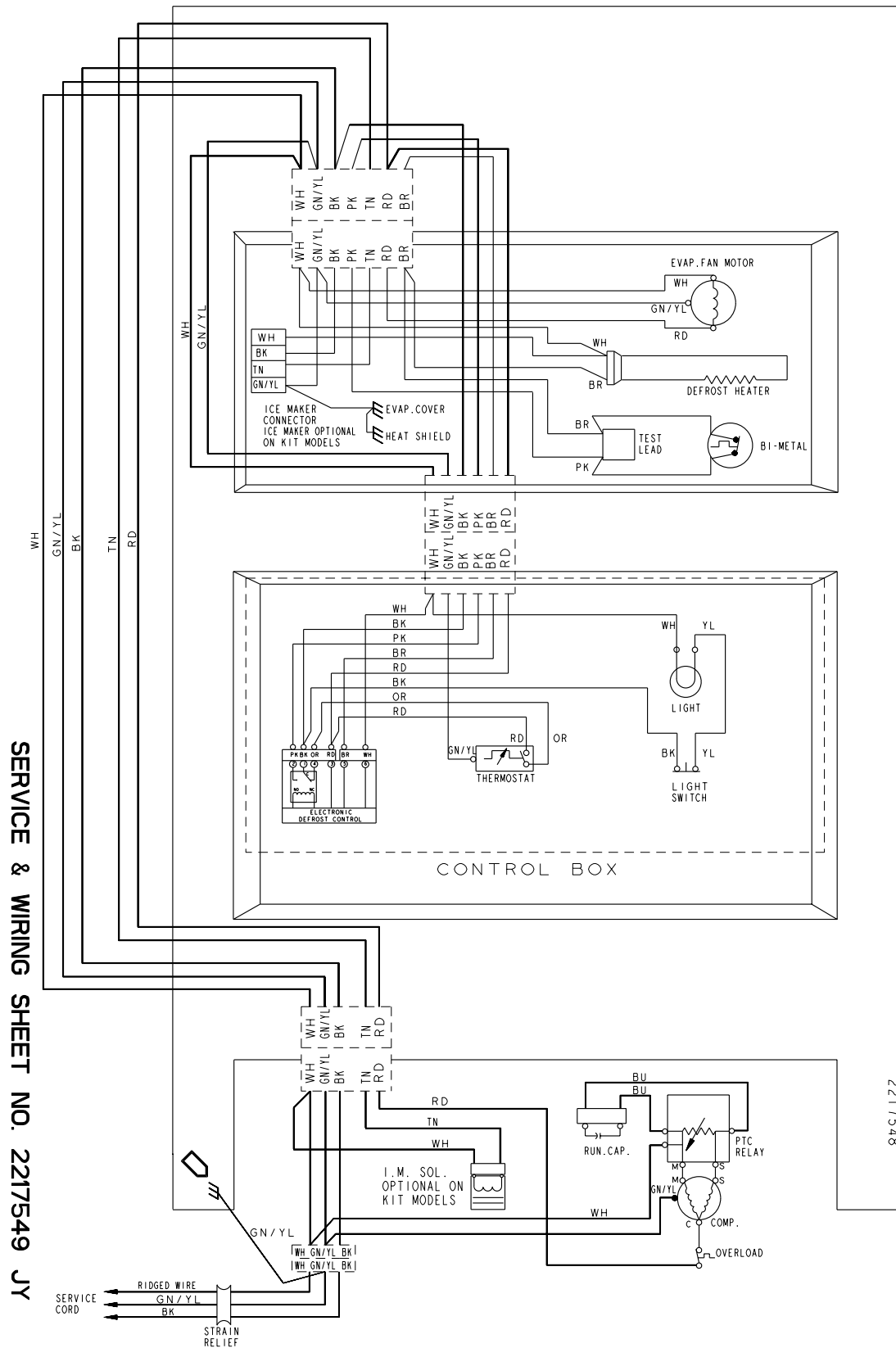
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- NOTES:
 1. COMPRESSOR GROUNDED THROUGH CONDENSER.
 2. I.M. SOLENOID VALVE GROUNDED THROUGH MOUNTING.

WIRING DIAGRAM

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WIRE COLOR CODE

- GN/YL - GREEN/YELLOW TRACER
- WH - WHITE
- YL - YELLOW
- RD - RED
- BU - BLUE
- BK - BLACK
- OR - ORANGE
- BR - BROWN
- GY - GRAY
- PK - PINK
- TN - TAN

MANUFACTURED UNDER ONE OR MORE OF THE FOLLOWING UNITED STATES PATENTS

3,960,631	4,659,157	4,765,696	4,908,544	5,011,101
4,084,725	4,665,708	4,767,896	4,911,508	5,033,182
4,090,641	4,694,553	4,768,353	4,914,928	5,033,273
4,102,660	4,706,169	4,776,178	4,920,758	5,042,398
4,327,557	4,707,401	4,787,216	4,924,680	5,044,704
4,330,310	4,709,556	4,799,362	4,934,541	5,050,777
4,640,432	4,715,512	4,800,935	4,936,641	5,070,708
4,649,712	4,728,759	4,801,181	4,944,566	5,077,985
4,649,717	4,745,656	4,833,894	4,958,890	5,039,461
4,649,718	4,745,775	4,862,577	4,996,848	

OTHER PATENTS PENDING

SYMBOL CODE

- ⊙ - CONNECTOR - SCREW ON
- ⊕ - CONNECTOR - CLOSED END
- - PERMANENT CONNECTION
- - DISCONNECT TERMINAL
- ⋈ - PLUG CONNECTOR
- ⏏ - GROUND (CHASSIS)

WARNING
 DISCONNECT FROM
 ELECTRICAL SUPPLY
 BEFORE SERVICING
 UNIT.

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