

SERVICE AND WIRING SHEET

2176725



WARNING

ELECTRICAL SHOCK HAZARD

DISCONNECT FROM ELECTRICAL SUPPLY BEFORE SERVICING UNIT. REINSTALL ALL PANELS BEFORE OPERATING.

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

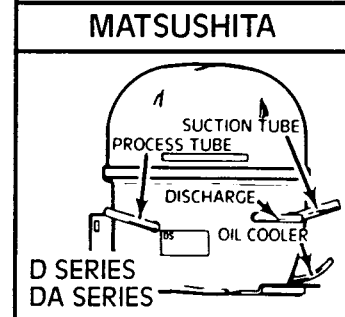
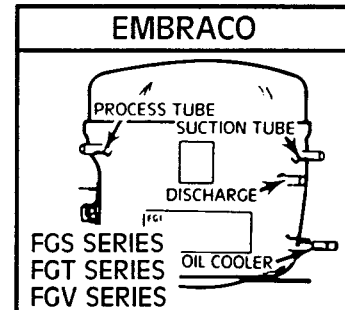
*Normal operating conditions are viewed when the air and temperature controls are at mid-setting, freezer section 0 to -5°F and unit is cycling.

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.

(OIL COOLER NOT PRESENT ON ALL COMPRESSORS)

SERVICE INFORMATION (2169368-A)

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.



GENERAL COMPONENT INFORMATION FOR ALL REFRIGERATOR/FREEZER MODELS BE SURE AND USE CORRECT REPLACEMENT PARTS		
COMPONENT (IF APPLICABLE)	WATTAGE @ 120V	OHMS RESISTANCE
DEFROST HEATER	350-750	19-41
COMPRESSOR:		
RUN WINDINGS	—	1-5
START WINDINGS	—	3-11
EVAPORATOR FAN	6-10	—
CONDENSER FAN	7-13	—
MULLION HEATER	0-13	1150-OPEN
DISPENSER HOUSING/DOOR HEATER	2-10	1440-7200

CAUTION:



THIS UNIT CONTAINS R134a, A NON-CFC REFRIGERANT. DO NOT SERVICE WITH R12. ONLY APPROVED R134a SERVICE PROCEDURES PERFORMED BY A QUALIFIED TECHNICIAN SHOULD BE USED TO REPAIR THIS PRODUCT. FAILURE TO FOLLOW APPROVED R134a SERVICE PROCEDURES WILL RESULT IN PRODUCT DAMAGE AND SERVICE EQUIPMENT DAMAGE.

ELECTRONIC DEFROST CONTROL TEST MODE

- 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, DO NOT OVERHEAT EVAPORATOR AREA.

SERVICE DEFROST BIMETALS
50°F OPEN

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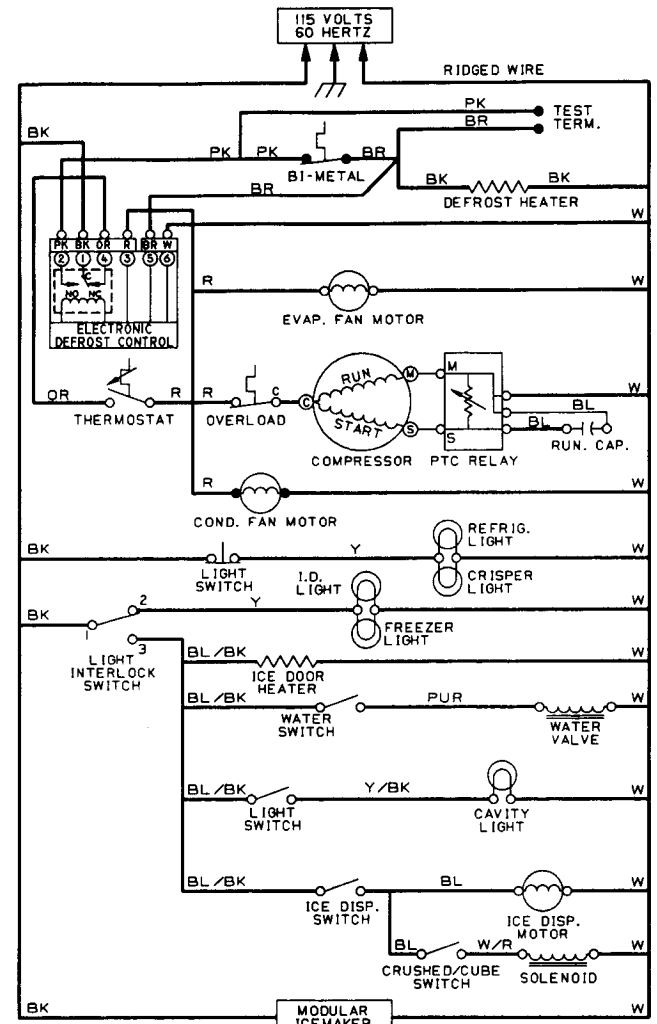
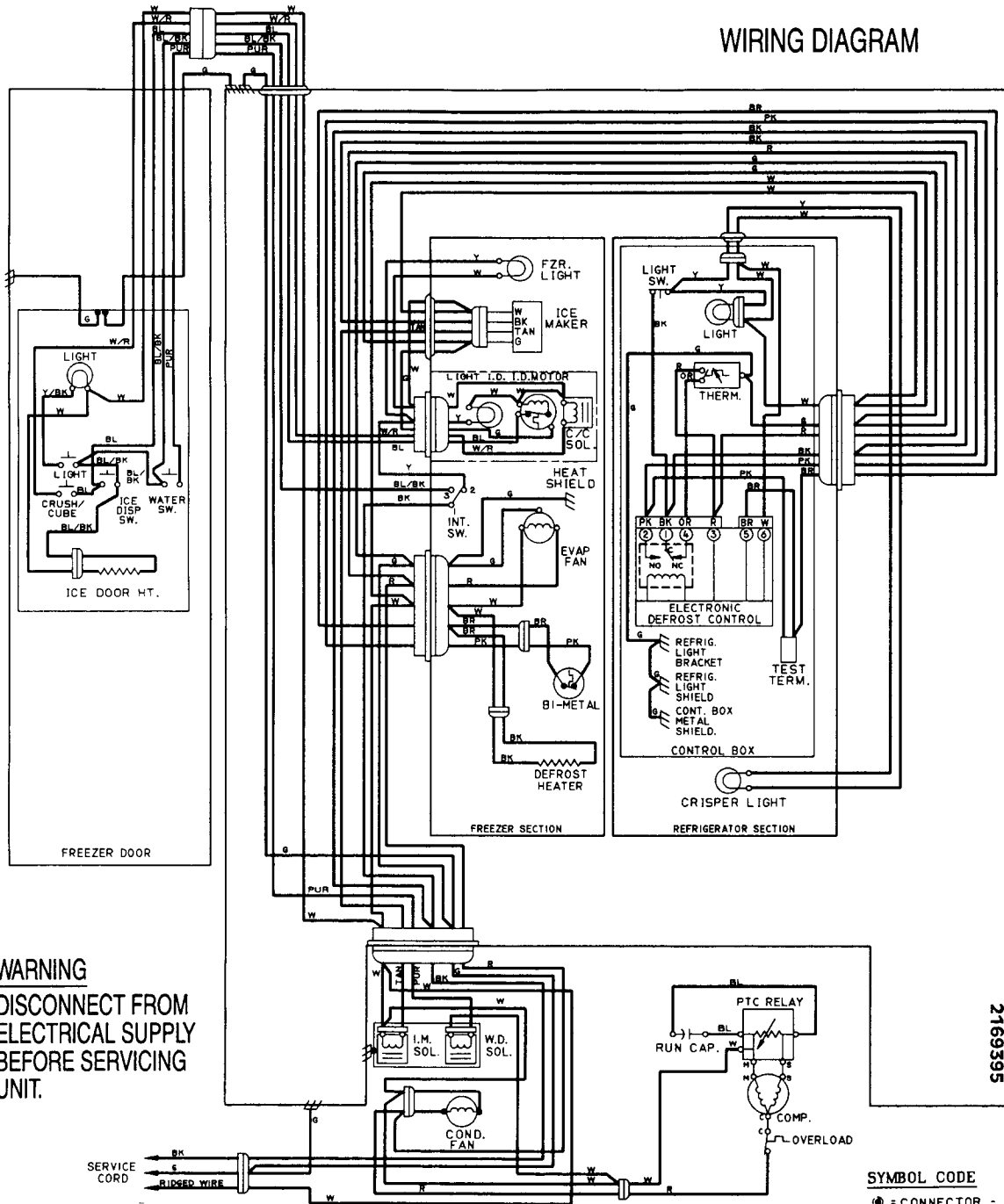
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NOTE: GROUND COMPRESSOR THROUGH CONDENSER.
I.M. SOLENOID VALVE GROUNDED THROUGH MOUNTING.
EVAP COVER GROUNDED THROUGH HEAT SHIELD.

WIRING DIAGRAM



WIRE COLOR CODE

- G = GREEN
- BL = BLUE
- BK = BLACK
- R = RED
- W = WHITE
- Y = YELLOW
- OR = ORANGE
- BR = BROWN
- GY = GRAY
- PK = PINK
- PUR = PURPLE
- TAN = TAN
- OR/BK = ORANGE/BLACK TRACER
- Y/R = YELLOW/RED TRACER
- BL/BK = BLUE/BLACK TRACER
- W/BL = WHITE/BLUE TRACER
- BK/Y = BLACK/YELLOW TRACER
- W/R = WHITE/RED TRACER
- G/Y = GREEN/YELLOW TRACER
- BK/W = BLACK/WHITE TRACER
- Y/BK = YELLOW/BLACK TRACER

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	4,800,955	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	D309,461
4,649,718	4,745,775	4,862,577	4,996,848	

OTHER PATENTS PENDING

SYMBOL CODE

- ⊙ = CONNECTOR - SCREW ON
- ⊚ = CONNECTOR - CLOSED END
- = DISCONNECT TERMINAL
- = PERMANENT CONNECTION
- ⋈ = PLUG CONNECTOR
- ⊥ = GROUND (CHASSIS)

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