

SERVICE AND WIRING SHEET 2169107

**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° | 165±20 | 100±20 | 1 TO 3 |
| 90° | 165±20 | 140±20 | 1 TO 3 |
| 110° | 165±20 | 170±20 | 1 TO 3 |

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

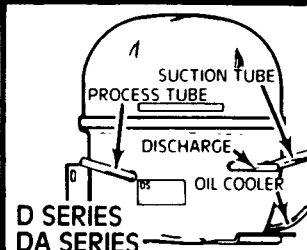
SERVICE INFORMATION (2162498)

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.

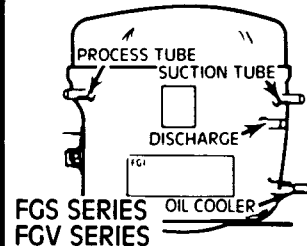
GENERAL COMPONENT INFORMATION FOR ALL REFRIGERATOR/FREEZER MODELS BE SURE AND USE CORRECT REPLACEMENT PARTS

| COMPONENT (IF APPLICABLE) | WATTAGE @ 120V | OHMS RESISTANCE |
|---------------------------------|----------------|-----------------|
| DEFROST HEATER | 350-470 | 31-41 |
| COMPRESSOR: | | |
| RUN WINDINGS | — | 1-4 |
| START WINDINGS | — | 3-8 |
| EVAPORATOR FAN | 6-10 | — |
| CONDENSER FAN | 7-13 | — |
| DISPENSER HOUSING HEATER (DOOR) | 2-6 | 2400-7200 |

MATSUSHITA



EMBRACO



(OIL COOLER NOT PRESENT
ON ALL COMPRESSORS)

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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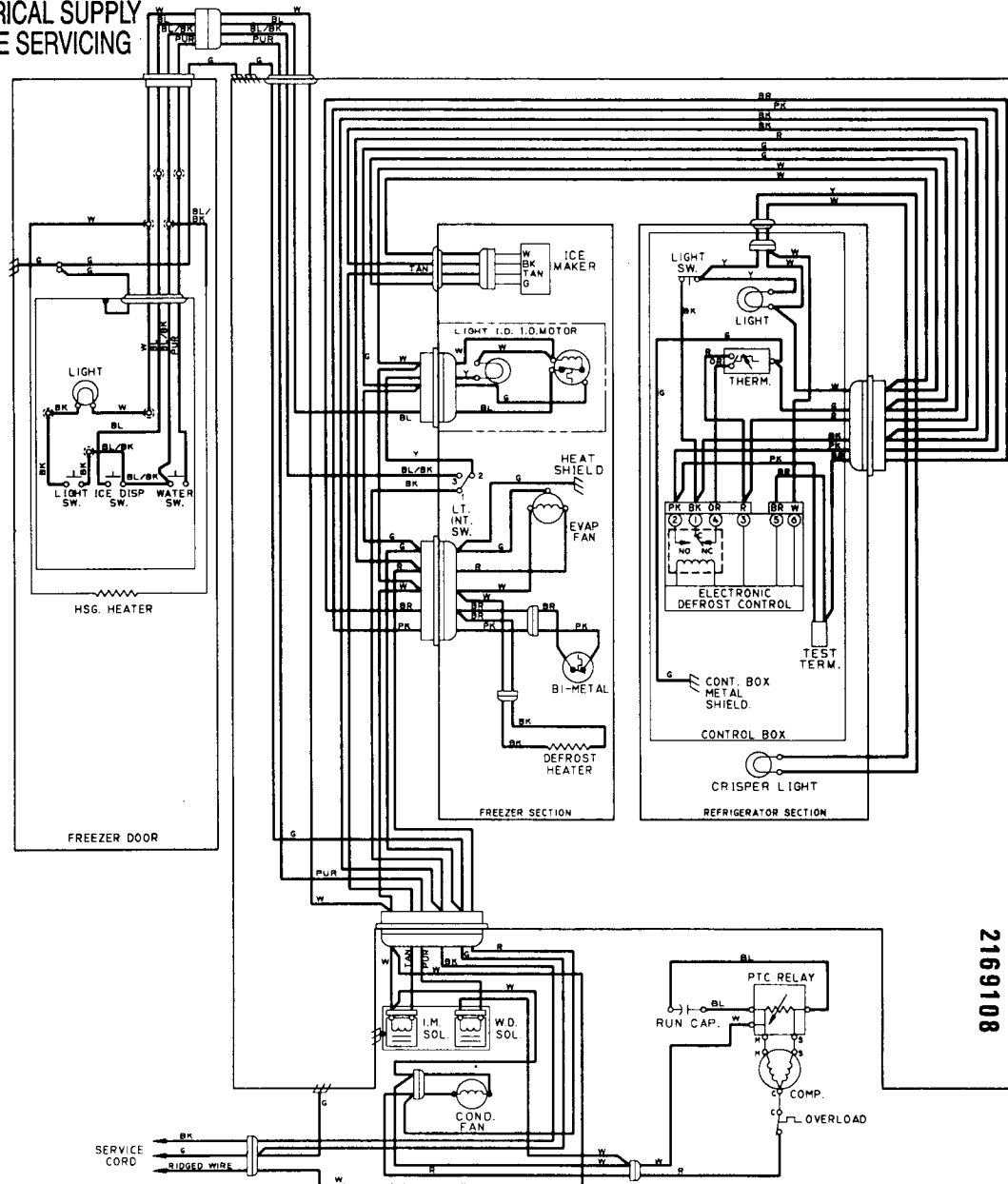
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WARNING

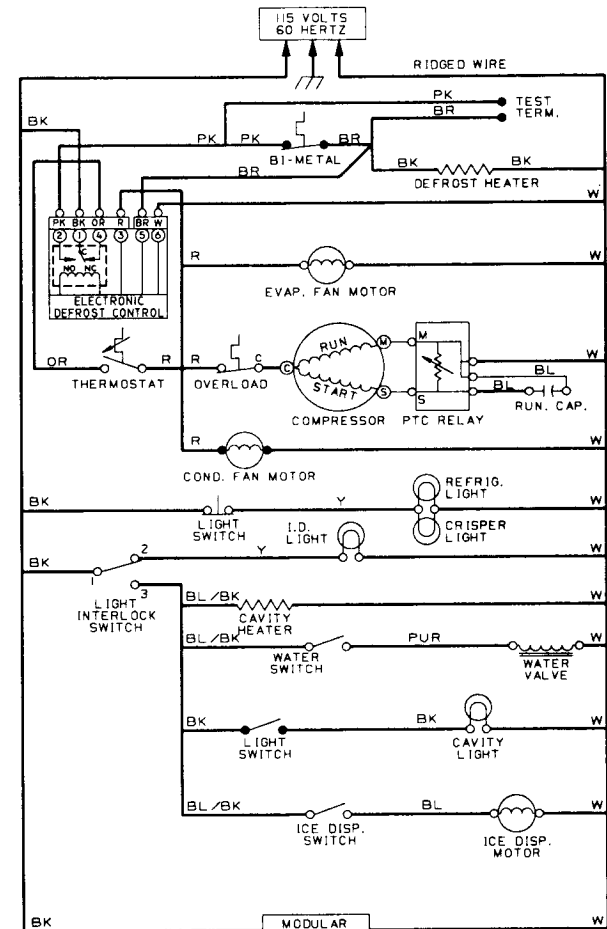
DISCONNECT FROM
ELECTRICAL SUPPLY
BEFORE SERVICING
UNIT.

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

WIRING DIAGRAM



2169108



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

SYMBOL CODE

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

MANUFACTURED UNDER ONE OR MORE
OF THE FOLLOWING UNITED STATES PATENTS:

| | | | | |
|-----------|-----------|-----------|-----------|-----------|
| 3,727,419 | 4,387,578 | 4,682,474 | 4,732,432 | 4,787,216 |
| 3,858,409 | 4,404,813 | 4,688,393 | 4,732,435 | 4,799,362 |
| 3,872,688 | 4,481,785 | 4,690,468 | 4,739,233 | 4,800,935 |
| 3,883,198 | 4,555,915 | 4,694,553 | 4,741,170 | 4,801,181 |
| 3,960,631 | 4,640,432 | 4,706,169 | 4,745,656 | 4,805,293 |
| 4,084,725 | 4,646,528 | 4,707,401 | 4,745,775 | 4,807,086 |
| 4,090,641 | 4,649,712 | 4,709,556 | 4,756,165 | 4,821,528 |
| 4,102,660 | 4,649,717 | 4,714,304 | 4,765,696 | 4,833,894 |
| 4,226,489 | 4,649,718 | 4,715,512 | 4,767,896 | 4,834,169 |
| 4,327,557 | 4,659,157 | 4,715,831 | 4,768,353 | 4,862,577 |
| 4,330,310 | 4,665,708 | 4,728,759 | 4,776,178 | 4,970,874 |

OTHER PATENTS PENDING

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