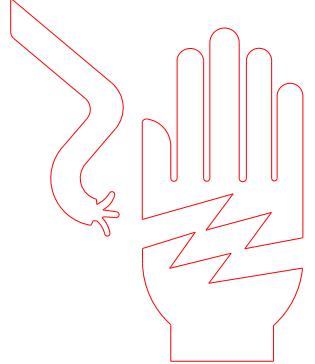


- NOTES:
1. IM SOLENOID GROUNDED THROUGH MOUNTING.
 2. EVAP COVER GROUNDED HEAT SHIELD.

WIRING
DIAGRAM



WARNING

Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

Failure to do so can result in death or electrical shock.

- WIRE COLOR CODE
- WH/GN = WHITE/GREEN TRACER
- OR/BK = ORANGE/BLACK TRACER
- YL/RD = YELLOW/RED TRACER
- BU/BK = BLUE/BLACK TRACER
- WH/BU = WHITE/BLUE TRACER
- BK/YL = BLACK/YELLOW TRACER
- WH/RD = WHITE/RED TRACER
- GN/YL = GREEN/YELLOW TRACER
- YL/BK = YELLOW/BLACK TRACER
- PK/BK = PINK/BLACK TRACER

- WIRE COLOR CODE
- BR/WH = BROWN/WHITE TRACER
- OR/BU = ORANGE/BLUE TRACER
- RD/WH = RED/WHITE TRACER
- LB/BK = LIGHT BLUE/BLACK TRACER
- TN/WH = TAN/WHITE TRACER
- TN/BK = TAN/BLACK TRACER
- RD/YL = RED/YELLOW TRACER
- V/WH = VIOLET/WHITE TRACER
- BL/YL = BLUE/YELLOW TRACER
- YL/BU = YELLOW/BLUE TRACER

- WIRE COLOR CODE
- BU = BLUE
- BK = BLACK
- RD = RED
- WH = WHITE
- YL = YELLOW
- OR = ORANGE
- BR = BROWN
- GY = GRAY
- PK = PINK
- V = VIOLET
- TN = TAN

MANUFACTURED UNDER ONE OR
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

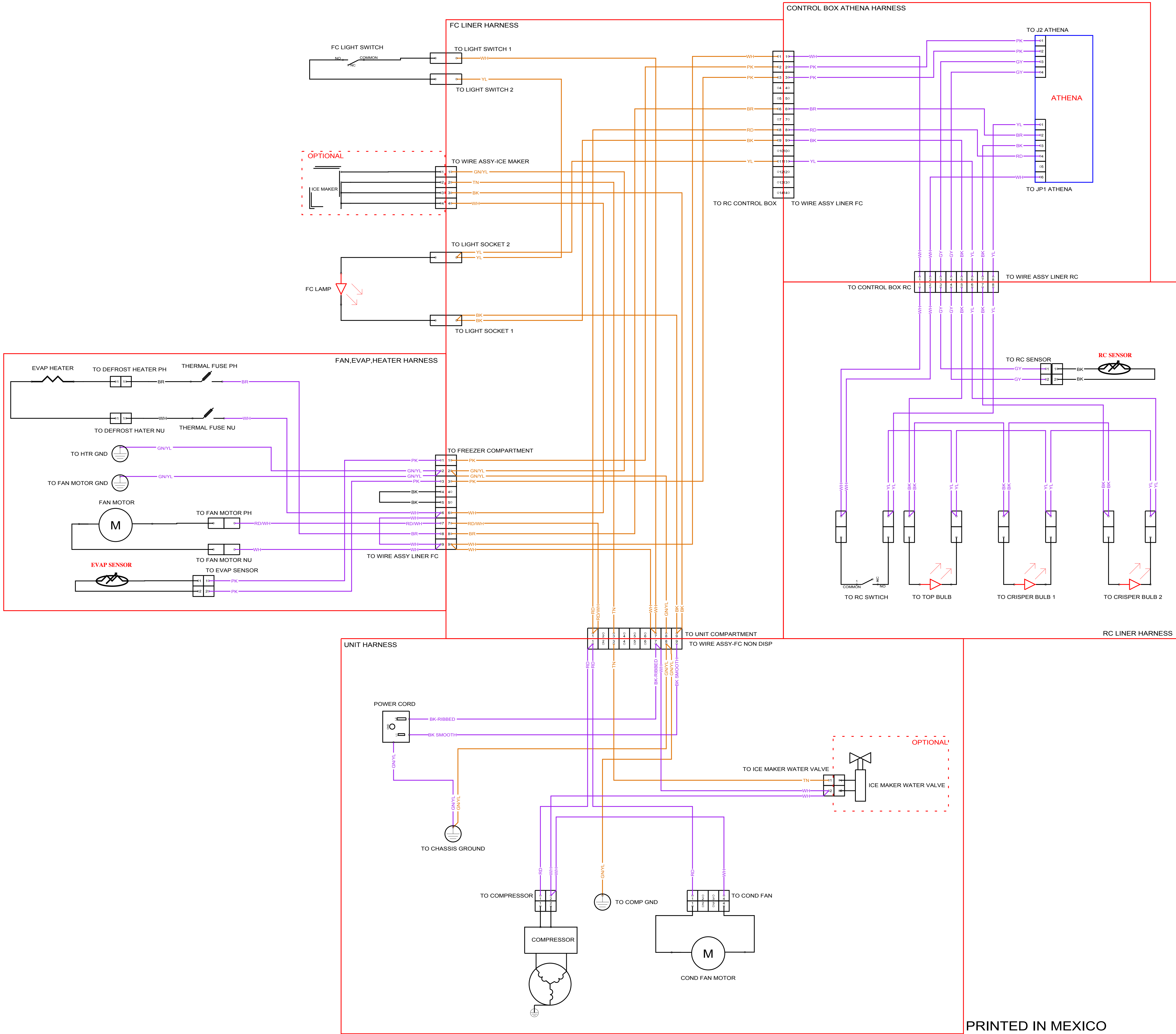
4,330,310 4,709,556 4,799,362 4,934,541 5,050,777

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 D309,461

4,649,718 4,745,775 4,862,577 4,996,848



VOLTAGE TEST POINTS ATHENA						
MAIN CONTROL (ACU)	CONNECTOR	FROM	COLOR	TO	COLOR	SPECIFICATIONS
	J2	J2-1	PK	J2-2	PK	5 VDC INPUT EVAP THERMISTOR
		J2-3	GY	J2-4	GY	5 VDC INPUT REFRIGERATOR THERMISTOR
		JP1-1	YL	JP1-3	BK	120VAC input FC Light switch feedback when door is open
	JP1	JP1-2	BR	JP1-6	WH	120VAC Output Defrost Heater when defrosting.
		JP1-3	BK	JP1-6	WH	120VAC Input Constant from Power Cord.
		JP1-4	RD	JP1-6	WH	120VAC Output to Compressor and Fans when cooling

NON DISP WIRING SHEET NO. W11102112 A

PRINTED IN MEXICO

SERVICE SHEET



⚠ WARNING

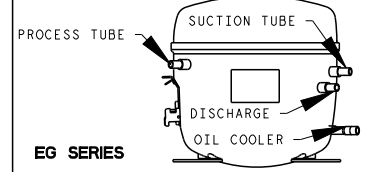
Electrical Shock Hazard
Disconnect power before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

* Normal operating conditions are viewed when the air and temperature controls are at mid-sitting, 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.

PERFORMANCE DATA (NORMAL OPERATING CONDITIONS)			
AMB	WATTS	SYSTEM PRESSURE (PSIG)	
		HIGH SIDE	LOW SIDE
70°	140 ± 20	95 ± 20	-7 TO 3
90°	150 ± 20	135 ± 20	-4 TO 3
110°	170 ± 20	185 ± 20	-2 TO 4

(OIL COOLER IS OPTIONAL)
EMBRACO



SERVICE INFORMATION (W11159122 B)

1. COMPRESSOR SUCTION AND PROCESS STUBS MAY NOT BE INTERCHANGED.
2. REFRIGERANT CHARGE MUST BE APPLIED TO HIGH SIDE ONLY.
3. ICE MAKER AND WATER VALVE NOT ORIGINAL EQUIPMENT ON ALL MODELS.
4. NOTE: ICE MAKER CYCLE MUST BE INITIATED ELECTRICALLY. DO NOT TRY TO MANUALLY START CYCLE.
5. PART NUMBER CAN BE FOUND ON THE COMPONENT.

SERVICEABLE ELECTRICAL PARTS MATRIX (COMPONENTS BY CUBIC FOOT SIZE)

SERVICEABLE PARTS	21 CFT	22 CFT	25 CFT	WATTAGE	RESISTANCE (Ω)
	115-127V AC				
COMPRESSOR	EGX60HLC			102	
	W11045354				
RUN WINDINGS	*				1 - 5
START DEVICE, OVERLOAD	See Note 6				
RUN CAPACITOR (IF EQUIPPED)	See Note 6				
ELECTRIC AIR BAFFLE ASSY	See Note 6			12V DC	
THERMISTOR	See Note 6				2.7KΩ AT 25°C
USER INTERFACE CONTROL	See Note 6				
MAIN CONTROL	See Note 6				
DEFROST HEATER	See Note 6			550-650	
EVAPORATOR FAN MOTOR	See Note 6			2-9	
CONDENSER FAN MOTOR	See Note 6			3-12	

SERVICE MODE STEPS FOR ATHENA CONTROL



⚠️ WARNING

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Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

DURING THE FIRST 30 SECONDS AFTER POWER UP THE PRODUCT, PRESS TEMP SETTING BUTTON, UNTIL IS LOCATED ON MIN POSITION, THEN HOLD THE REFRIGERATOR DOOR SWITCH TO SIMULATE THE DOOR IS CLOSED, AND AT THE SAME TIME HOLD PRESS REFRIGERATOR TEMP BUTTON FOR 5 SECONDS UNTIL THE BOARD ENTERS TO SERVICE MODE.

SYSTEM ACTION

INTO SERVICE STATE MODE, ALL TEMPERATURE LEDS TURN ON FOR AND TURN OFF AFTER 10 SECOND.

USER MUST USE SW1 BUTTON TO ADVANCE STEPS INTO SERVICE MODE. USER SHALL WAIT 3 SECONDS BETWEEN EACH KEYPRESS TO ALLOW SYSTEM STABILIZATION.

ALL SENSORS WILL BE TESTED WITHOUT REQUIRED ACTION FROM SERVICE PERSONAL. THIS ACTION IS TAKEN AFTER HEATER OFF.

AFTER LAST STEP PRESS SW1 TO EXIT SERVICE MODE, USER INTERFACE WILL RESET TO LAST MODE AND START THE POWER UP STATE.

SWITCH PRESS #	DISPLAY INFORMATION				LOAD
	D9	D8	D7	D6	
0	☐	☐	☐	☐	START CONDITION
1	☐	☐	☒	☐	COMPRESSOR ON
2	☐	☐	☐	☐	COMPRESSOR OFF
3	☐	☒	☐	☐	HEATER ON
4	☐	☐	☐	☐	HEATER OFF
5	☒	☐	☐	☐	NOT USED
6	☐	☐	☐	☐	DISPLAY FAIL MESSAGE
7	☐	☒	☐	☐	RETURN TO NORMAL OP (DEFAULT TO MED)

THE FAIL INFORMATION IS SHOWN BELOW WITH THE LEDS TURNED ON, THIS WILL APPEAR ON STEP 6 FROM ABOVE TABLE.

NOTE: IF STEP 6 SHOW ALL LEDS BLANK MEANS THAT BOARD DRIVERS AND SENSORS ARE WORKING CORRECTLY

DISPLAY INFORMATION				LEDS ON (NO BLINKING) WHEN ILLUMINATED
D9	D8	D7	D6	
☐	☐	☒	☐	MAIN BOARD (HEATER DRIVER OR COMPRESSOR DRIVER)
☐	☒	☐	☐	REFRIGERATOR SENSOR
☒	☐	☐	☐	DEFROST SENSOR
☒	☒	☐	☐	REFRIGERATOR & DEFROST SENSOR
☐	☒	☒	☐	MAIN BOARD + REFRIGERATOR SENSOR
☒	☐	☒	☐	MAIN BOARD + DEFROST SENSOR
☒	☒	☒	☐	MULTIPLE FAILURES (SENSORS + DRIVERS)

DISPLAY FAIL MESSAGE STATE TABLE.

FOR DISPENSER MODEL ONLY:
FOR WATER FILTER INDICATOR RESET LED TEST, PRESS AND HOLD TEMP BUTTON FOR 3 SECONDS UNTIL WATER FILTER LED BLINKS TO VERIFY LED FUNCTION.

FOR DISPENSER FUNCTION, USE WIRING DIAGRAM FOR REFERENCE TO VALIDATE ALL CONNECTIONS AND SWITCH OPERATION.

