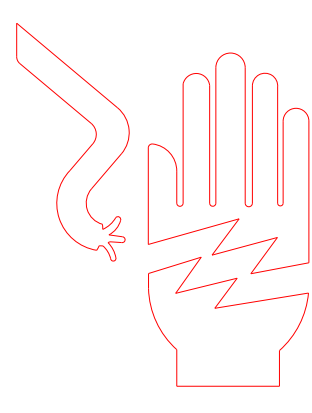


NOTES:

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

WIRING DIAGRAM



WARNING

Electrical Shock Hazard

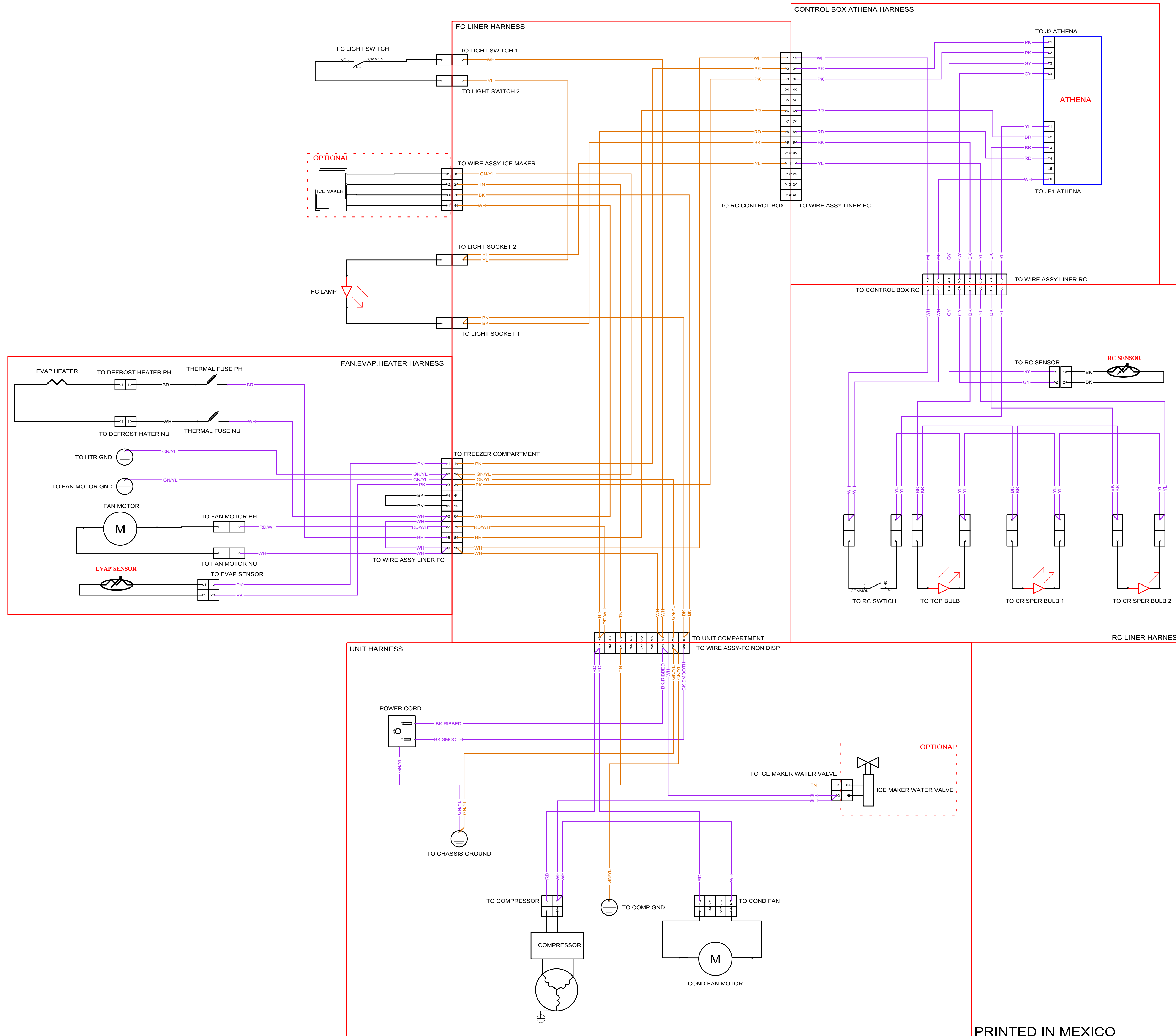
Disconnect power before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

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
		J2-3	GY	J2-4	GY	5 VDC INPUT REFRIGERATOR THERMISTOR
	JP1	JP1-1	YL	JP1-3	BK	120VAC input FC Light switch feedback when door is open
		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

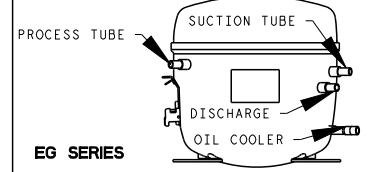
Electrical Shock Hazard
 Disconnect power before servicing.
 Replace all parts and panels before operating.
 Failure to do so can result in death or electrical shock.

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

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	



WARNING

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 Replace all parts and panels before operating.
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SERVICE MODE STEPS FOR ATHENA CONTROL

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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	START CONDITION
1	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COMPRESSOR ON
2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMPRESSOR OFF
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HEATER ON
4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	HEATER OFF
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NOT USED
6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DISPLAY FAIL MESSAGE
7	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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	
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAIN BOARD (HEATER DRIVER OR COMPRESSOR DRIVER)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REFRIGERATOR SENSOR
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	DEFROST SENSOR
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	REFRIGERATOR & DEFROST SENSOR
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAIN BOARD + REFRIGERATOR SENSOR
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MAIN BOARD + DEFROST SENSOR
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	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.

In some European factories the letter "W" of the part code mentioned herein will be automatically replaced by the number "4000" (e.g. W12345678 becomes 400012345678)

