

**⚠ WARNING**

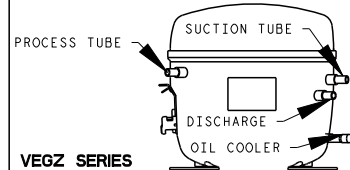
Electrical Shock Hazard
Disconnect power before servicing.
Replace all parts and panels before operating.
Failure to do so can result in death or electrical shock.

• 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 (W10723795 A)**

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. SERVICE DEFROST BI-METALS -50°F OPEN
6. PART NUMBER CAN BE FOUND ON THE COMPONENT.

SERVICEABLE ELECTRICAL PARTS MATRIX (COMPONENTS BY CUBIC FOOT SIZE)

SERVICEABLE PARTS	22 CFT	25/26 CFT	WATTAGE	RESISTANCE (Ω)
	120V AC	120V AC	120V AC	120V AC
COMPRESSOR	VEGZ7H			
	W10168473			
RUN WINDINGS	*			6.40
START WINDINGS	*			6.40
START DEVICE, OVERLOAD	See Note 6			
RUN CAPACITOR (IF EQUIPPED)	See Note 6			
ELECTRIC AIR BAFFLE ASSY	See Note 6		4	
THERMISTOR	See Note 6			2.7K AT 77°F (25°C)
USER INTERFACE CONTROL	See Note 6			
MAIN CONTROL	See Note 6			
DEFROST HEATER	See Note 6		550-650	27-21
DEFROST BI-METAL	See Note 6			
EVAPORATOR FAN MOTOR	See Note 6		1.5-2.9	
CONDENSER FAN MOTOR	See Note 6		2.2-4.9	

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 AND 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 HEATER. LISTEN FOR THE RELAY TO CLICK. IF RELAY CLICKS ONCE UPON ENTERING TEST MODE, CHECK FOR DEFROST HEAT. IF RELAY CLICKS TWICE (ALLOW UP TO 30 SEC BETWEEN CLICKS), CHECK FOR BI-METAL OPEN.

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

BAFFLE MODULE DIAGNOSTIC TEST (IF APPLICABLE)

The diagnostic steps given below are for evaluating the Baffle Module. Steps 4 and 5 include the settings and results. If the results listed do not occur after putting the controls in the given settings, then further in-depth diagnosis of the product is required. Possible areas to evaluate include wiring connections to all electrical components, freezer thermostat, defrost timer, baffle module, evaporator fan, condenser fan, and compressor.

STEP

1. VERIFY THAT THE PRODUCT IS NOT IN DEFROST.
2. OPEN THE REFRIGERATOR AND FREEZER DOORS SO THAT THE PRODUCT WARMS UP ENOUGH TO TRIP THE THERMOSTATS.
3. NOTE THE THERMOSTAT SETTINGS AND **REMOVE THE CONTROL BOX FRONT COVER.**
4. SET BOTH CONTROLS IN THE FOLLOWING MANNER, THEN CHECK FOR THE GIVEN RESULTS:

CONTROL	SETTING	COMPONENT	RESULTS
FREEZER THERMOSTAT.....	COLDER (FAR RIGHT)	BAFFLE DOOR.....	10 SECONDS-CLOSED
REFRIGERATOR THERMOSTAT.....	OFF (FAR LEFT)	COMPRESSOR.....	ON
		CONDENSER FAN.....	ON
		EVAPORATOR FAN.....	ON

5. SET BOTH CONTROLS IN THE FOLLOWING MANNER, THEN CHECK FOR THE GIVEN RESULTS:

CONTROL	SETTING	COMPONENT	RESULTS
FREEZER THERMOSTAT.....	COLDER (FAR RIGHT)	BAFFLE DOOR.....	10 SECONDS-OPEN
REFRIGERATOR THERMOSTAT.....	COLDER (FAR RIGHT)	COMPRESSOR.....	ON
		CONDENSER FAN.....	ON
		EVAPORATOR FAN.....	ON

6. TEST COMPLETE - BAFFLE MODULE GOOD. SET CONTROLS AT MID SETTINGS AND REPLACE CONTROL BOX FRONT COVER.

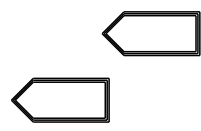
SERVICE AND WIRING

SHEET NO.

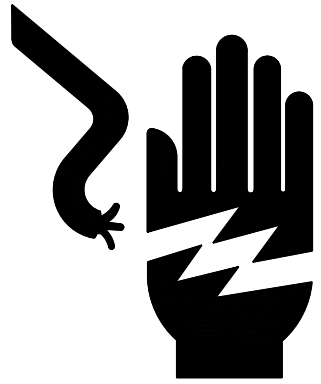
SERVICE AND WIRING

SHEET NO.

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



WIRING DIAGRAM



⚠ WARNING

Electrical Shock Hazard
Disconnect power before servicing.
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Failure to do so can result in death or electrical shock.

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
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

WIRE COLOR CODE

GN/YL = GREEN/YELLOW TRACER
BK/WH = BLACK/WHITE TRACER
YL/BK = YELLOW/BLACK TRACER
RD/WH = RED/WHITE TRACER
LB/BK = LT. BLUE/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 4,800,935 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

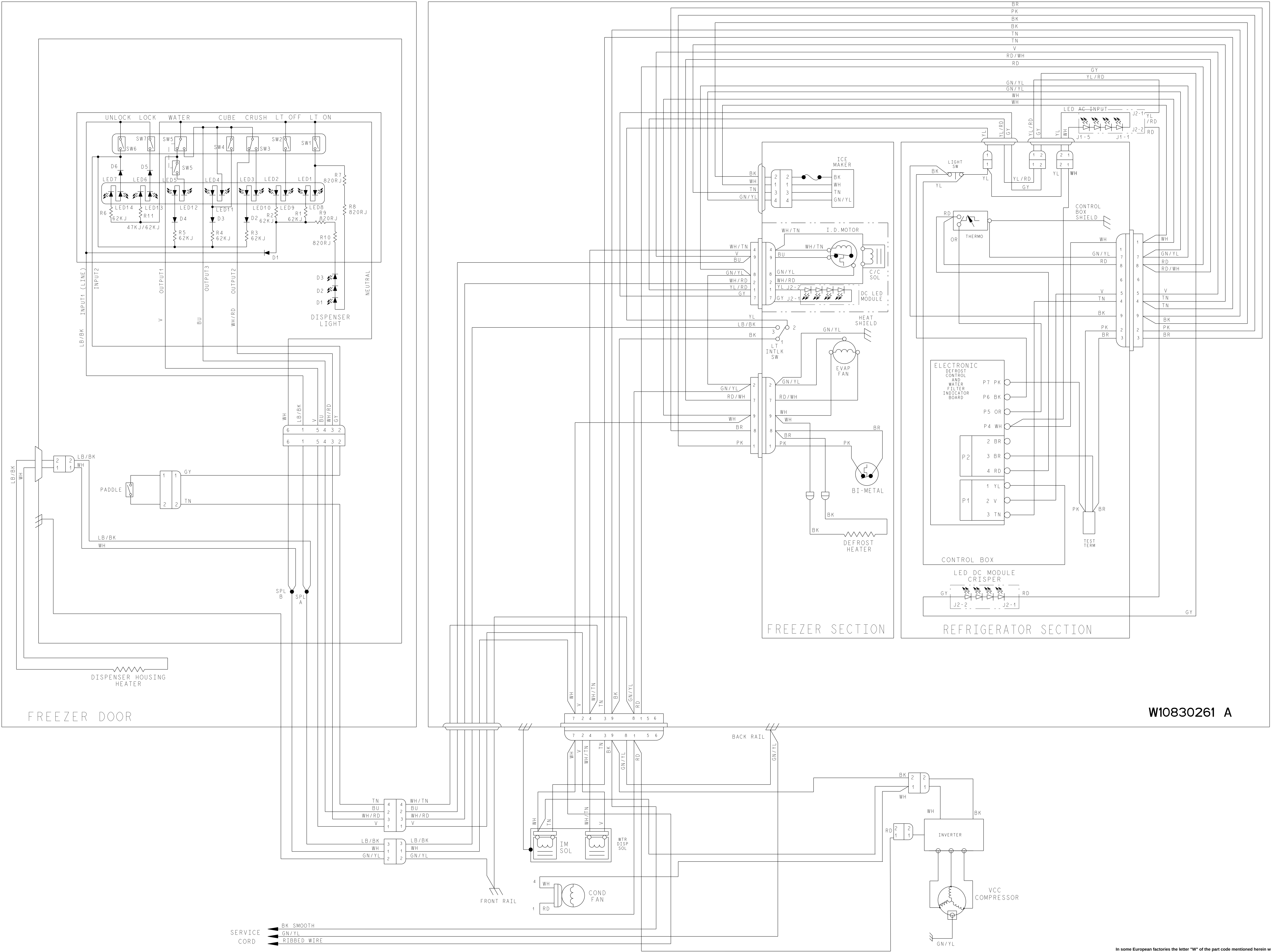
OTHER PATENTS PENDING

SYMBOL CODE

- : DISCONNECT TERMINAL
● : SPLICE
➔ : PLUG CONNECTOR
⏏ : GROUND (CHASSIS)
△ : LED

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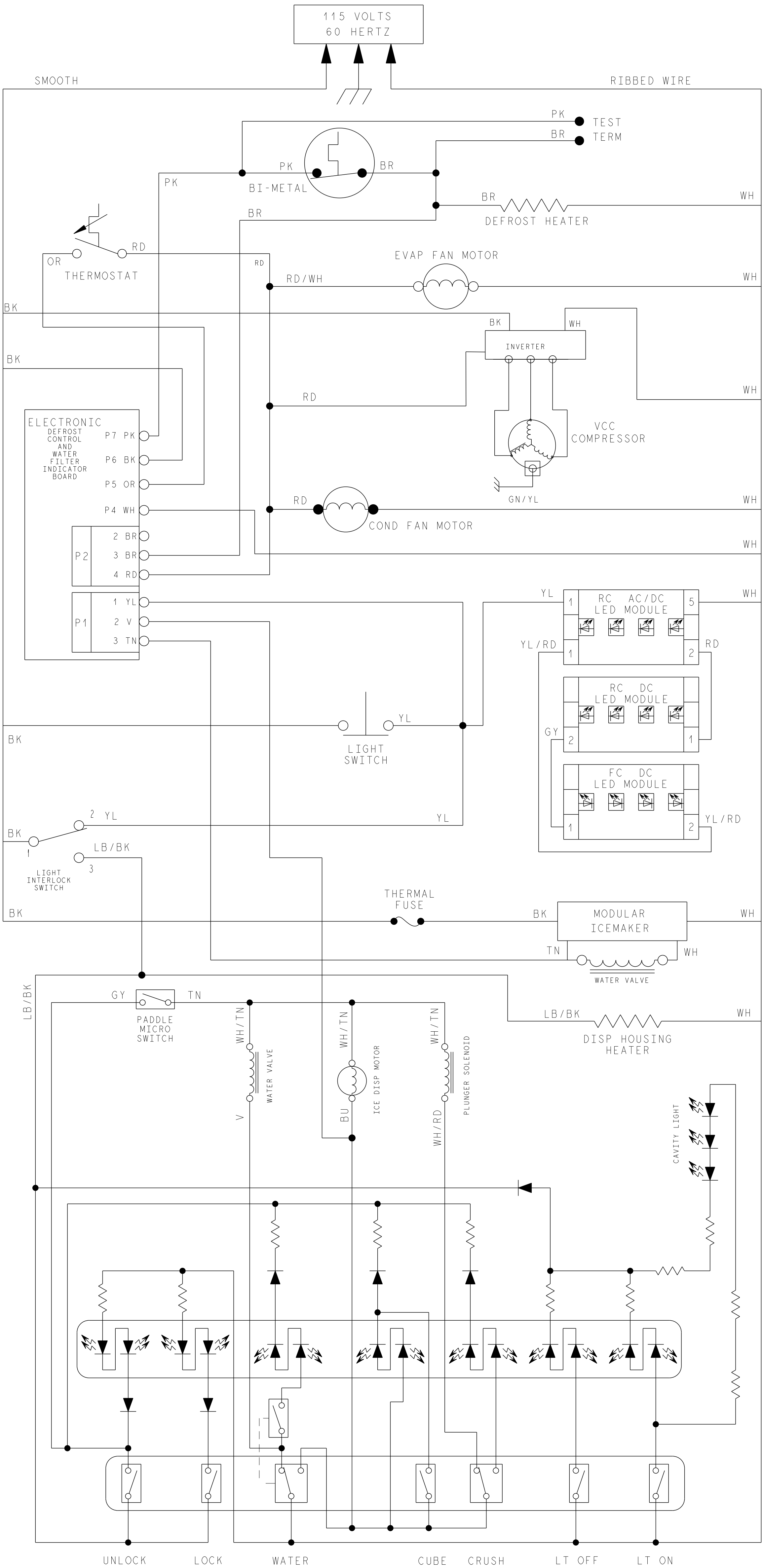
LIT-WIRING SHEET W10830262 A



SERVICE CORD

● BK SMOOTH
● GN/YL
● RIBBED WIRE

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")



VOLTAGE TEST POINTS BARRACUDA NON-IDI W/ LED					
	FROM	COLOR	TO	COLOR	
MAIN LOADS	P6	BK	P4	WH	115VAC INPUT - CONSTANT WHEN UNIT PLUGGED IN
	P4	WH	P2-4	RD	115VAC OUTPUT TO COMPRESOR /CONDENSER FAN WHEN COOLING
	P1-2	V	P4	WH	115 VAC OUTPUT TO WATER DISPENSER VALVE IS ACTIVE
	P2-4	RD/WH	P4	WH	115 VAC OUTPUT TO EVAP FAN WHEN COOLING
	P2-3	BR	P4	WH	115 VAC OUTPUT TO DEFROST HEATER WHEN ENERGIZED
	P6	BK	P4	WH	115 VAC OUTPUT TO ICE MAKER
	P1-1	YL	P6	BK	115 VAC RC LIGHT SWITCH WITH DOOR CLOSED
	P3	LB/BK	P6	BK	115 VAC RC LIGHT SWITCH WITH DOOR CLOSED
	P6	BK	P1-1	YL	115 VAC INPUT TO RC LIGHT SWITCH
	P1-3	TN	P4	WH	115 VAC INPUT ICE MAKER WATER VALVE
	P2-3	BR	P7	PK	115 VAC INPUT BIMETAL FEEDBACK
	P2-4	RD	P5	OR	115 VDC INPUT RC THERMOSTAT
	P1	TN	P2	GY	115 VDC INPUT PADDLE
	P9	BU	P7	WH	115 VAC OUTPUT TO IDI MOTOR/NON IDI MOTOR IS ACTIVE

VOLTAGE TEST DIAMOND LED					
J2-1	RD	J2-2	GY	11-14 VDC INPUT TO FC LIGHT	
J2-1	GY	J2-2	YL/RD	11-14 VDC INPUT TO RC LIGHT	
J1-1	YL	J1-5	WH	120 VAC INPUT TO RC AC/DC LED MODULE	

VOLTAGE TEST DIAMOND LED					
J2-1	RD	J2-2	GY	11-14 VDC INPUT TO FC LIGHT	
J2-1	GY	J2-2	YL/RD	11-14 VDC INPUT TO RC LIGHT	
J1-1	YL	J1-5	WH	120 VAC INPUT TO RC AC/DC LED MODULE	