SERVICE AND WIRING S 품 Ш



R N **NG**

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

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

WOTE: Watt and pressure readings will vary and are influenced by the existing condition of the appliance, such as ited-up evaporator, condition of condenser, defrost cycle, pull-down time and customer use.

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	_	بَوَ	*
70° 90° 110°	AMB		P NORMAL
120±20 130±20 140±20	WATTS		ERFO OPE
120 ± 160 ± 220 ±	HIGH S) ISAS	RMANCE RATING
20 20 20	IDE	EM PRE	DAT
- 6 " - 2 "	LOW	ريز	TA NDITION:
TO 3# TO 3# TO 4#	SIDE	URE	ONS)

SERVICE INFORMATION (W10486232 \triangleright

- INTERCHANGED UNLES ONLY. $\overline{\mathcal{C}}$ INDICATED В *

- COMPRESSOR SUCTION AND PROCESS STUBS MAY NOT BE INTERCHA REFRIGERANT CHARGE MUST BE APPLIED TO HIGH SIDE ONLY. ICE MAKER AND WATER VALVE NOT ORIGINAL EQUIPMENT ON ALL CAUTION: ICE MAKER CYCLE MUST BE INITIATED ELECTRICALLY. SERVICE DEFROST BI-METALS 58°F OPEN. MODELS.

 DO NOT TRY $\overline{0}$ MANUALLY START CYCLE
- o 5 4 3 7 -

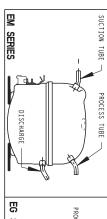
HE PART NUMBER CAN BE FOUND ON THE COMPONENT. JSU \triangleright REPLACEMENT PART OF SIMILAR PERFORMANCE

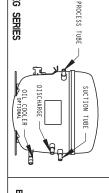
BE SURE TO USE CORRECT REPLACEMENT PARTS	BE SURE TO USE CORRECT REPLACEMENT PARTS	TO USE	CORREC	T REPL	-ACEMEN	T PART	S	110000	
				EMBRACO	ACO				SWHO
COMPONENT (IF APPLICABLE)	EGX60	WATTS	EM3Z60	WATTS	EMY260	WATTS	EMYS60	WATTS	RESISTANCE
COMPRESSOR	W10253005		W10445423		W10187125		W10237272		
RELAY-STARTING, EMB	NOTE #6		NOTE #6		NOTE #6		NOTE #6		
OVERLOAD PROTECTOR-T.I.	NOTE #6		NOTE #6		NOTE #6		NOTE #6		
COVER-TERMINAL	1		ı		ı		1		
RUN WINDINGS	-		1		_		1		1
START WINDINGS	1		ı		1		1		ı
COMPRESSOR ELECTRICAL	1		1		1		1		
RUN CAPACITOR	NOTE #6		NOTE #6		NOTE #6		NOTE #6		-
ADAPTIVE DEFROST	NOTE #6		NOTE #6		NOTE #6		NOTE #6		
DEFROST HEATER	NOTE #6	350-480	NOTE #6	350-480 NOTE	NOTE #6	350-480 NOTE	NOTE #6	350-480	42-30
DEFROST BI-METAL	NOTE #6		NOTE #6		NOTE #6		NOTE #6		1
EVAPORATOR FAN	NOTE #6	1.5-2.5	NOTE #6	1.5-2.5 NOTE	NOTE #6	3.6-4.8 NOTE	NOTE #6	3.6-4.8	1
CONDENSER FAN	0 H B	3.1-5.1	NOTE #6	3.1-5.1 NOTE	NOTE #6	3.1-5.1 NOTE	NOTE #6	3.1-5.1	-

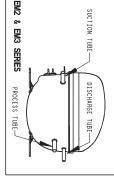
COMPRESSOR OPTIONS REFER 7 **APPLICABLE** DESIGN

_ 음 COOLER NOT PRESENT ON £ COMPRESSORS _

EMBRACO







TRONIC CONTROL \neg \Box ATUR 5

The user interface in this calls in the bag of this page. The cooling portion of the compartment and pulses the + h i s appliance controls the product cooling system. l h e product cooling diagnostics

electronic control defrost heater. _ + h i s appliance controls the temperatures = the refrigerator

pulsed defrost feature is controlled ۵. the following manner:

the Pulsed Defrost Heat -Ised Defrost Heat - During the defrost cycle the heater is energized continuously for the first. It is then cycled off for 180 seconds and on for 120 seconds. This on/off cycle is repeated unti-Refrigerator thermistor reach the cut-in temperature or the maximum defrost time (55 minutes) $- \sigma$ mınutes. reached

SERVICE AND WIRING SHEET NO.

SERVICE AND W WIRING

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SERVICE DIANOSTICS MODE

SWITCH AND DIAGRAM

SW2 LED6 LED5 NOTE: LED5 IS LED4 OPTIONAL LED3 IN SOME MODELS O O LED2 LED1 SW1

To ENTER SERVICE DIAGNOSTICS Mode: Press SW1 and SW2 simultaneously for 3 seconds. Release both buttons when all LED's are turned on for 1 second. Unit must be in the minimum temperature setting (LED4 on) prior to entering SERVICE DIAGNOSTIC MODE. The display will show LED4 on to indicate the control is in step 1 of the diagnostics routine. Each step must be manually advanced. Press SW1 to move to the next step in the sequence. Diagnostics will begin at Step 1 following the sequence shown in Table 1. To guarantee good voltage comparison to indicate load failure, a minimum of 2 seconds is needed in each step for system stabiliz All thermistors will be tested without action required from Service Technician. This check is done aft Heater Off (Step 6). er 0

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ω seco) n d fo ds. OW-

F ← C & 4 F ا مستقاه O EXIT SEP

Press SV

Allow

Press SV

Ollowing 1 SERVICE DIAGNOSTICS Mode, do one c s SW1 and SW2 simultaneously for 3 onnect the product from power. w 20 minutes to pass. s SW1 while in Step 7. ng the exit of the diagnostic mode,

mode, + 1+1018 € \supset e s ume normal operati

ASS CONDITION: FAIL CONDITION: Failure as shown Pressing S Pressing S vn in Table SW1 e 2. ₩ ₩ ħ ħ — — _ · _ S+ep S+ep \neg f a i e system r I message returns ge status S + 0 S normal mod s displayed a a ρý. 9 ΕD S 0 Sρ

IS DETECTED, THE MAJOR FAIL IS SHOWED	NOTE: WHEN MORE THAN ONE FAILURE	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	RC THERMISTOR	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	EVAP THERMISTOR	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	POWER BOARD (HEATER DRIVER)	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	POWER BOARD (COMPRESSOR DRIVER)	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	POWER BOARD (EVAP FAN DRIVER)	
DISPLAY INFORMATION	LOAD FAILURE	
TABLE 2		
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	7 SERVICE CHECK COMPLETED	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	6 HEATER OFF	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	5 HEATER ON	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	4 COMPRESSOR/CONDENSER FAN OFF	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	3 COMPRESSOR/CONDENSER FAN ON	
SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	2 EVAP FAN OFF	
CO O O O O CO SW2 LED6 LED5 LED4 LED3 LED2 LED1 SW1	1 EVAP FAN ON	
DISPLAY INFORMATION	Step No. Component Tested	z
TABLE 1		

_< ≥ r WHEN MORE THAN ONE FAILURE I SERVICE MODE IS ENTERED, ALL I THE LOAD BEING CHECKED DURING L MAIN CONTROL B L BOARD
IC STEP LOADS: DEFROST HE IS ENERGIZED. ATER COMPRESSOR FANS \Box . T C . ARE TURNED OF F

WIRING DIAGRAM

