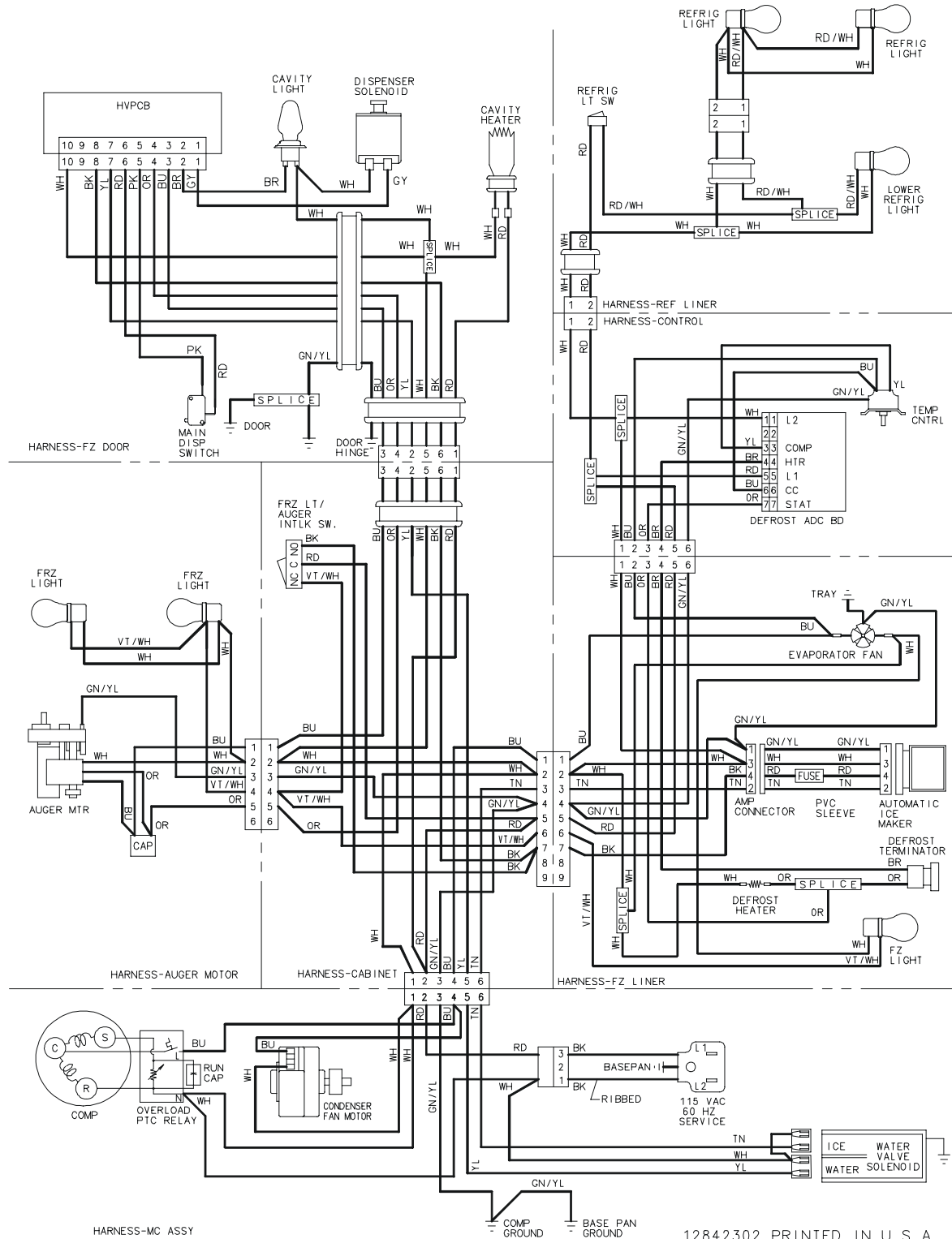


Wiring Diagram

WARNING

To avoid risk of electrical shock that can cause death or severe personal injury, disconnect unit from power before servicing unless tests require power. Discharge capacitors through a 10,000-ohm resistor before handling. Wires removed during disassembly must be replaced on correct terminals to ensure proper grounding and polarization.



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Side by Side Refrigerator — Technical Information

- MSD2655HEB MSD2655HEB0, MSD2655HEQ MSD2655HEQ0,
- MSD2655HES MSD2655HES0, MSD2655HEW MSD2655HEW0,
- MZD2665HEB MZD2665HEB0, MZD2665HEQ MZD2665HEQ0,
- MZD2665HES MZD2665HES0, MZD2665HEW MZD2665HEW0,
- PSD266LHEB PSD266LHEB0, PSD266LHEQ PSD266LHEQ0,
- PSD266LHES PSD266LHES0, PSD266LHEW PSD266LHEW0,
- PSD267LHES PSD267LHES0

NOTE: Refer to Service Bulletin F-896-S for complete diagnostics of Ice 'N Water™ dispenser control.

- Due to a possibility of personal injury or property damage, always contact an authorized technician for service or repair of this refrigerator.
- Refer to Service Manual 16022689 for installation, operating, disassembly, icemaker, testing, and troubleshooting information.

CAUTION

All safety information must be followed as provided in Service Manual 16022689.

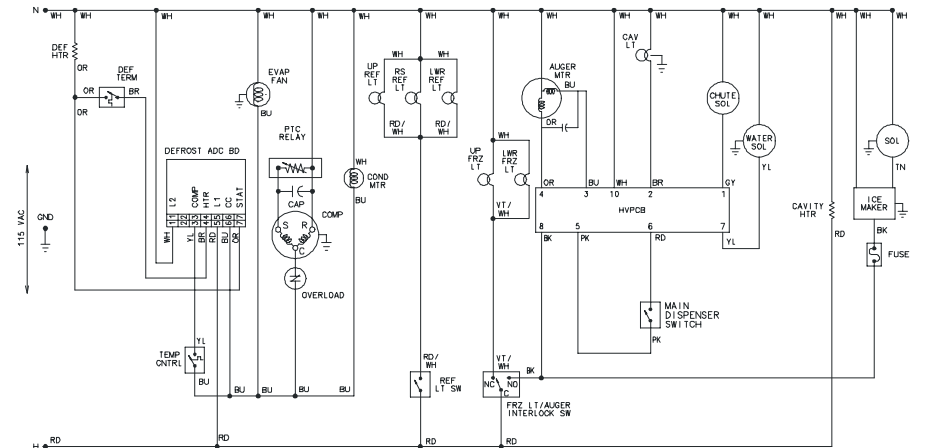
WARNING

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No-Load Performance, Controls in Normal Position															
	Kw/24 hr ±0.4			Percent Run Time ±10%			Cycles/24 hr ±25%			Refrigerator Center Average Food Temperature ±3°F		Freezer Compartment Average Food Temperature ±3°F			
Ambient °F	70°	90°	110°	70°	90°	110°	70°	90°	110°	70°	90°	110°	70°	90°	110°
26 cu ft	1.2	1.85	2.60	35	55	75	30	30	19	35	39	42	1	0	-2

Temperature Relationship Test Chart												
	Evaporator Outlet ±3°F		Evaporator Inlet ±3°F		Suction Line ±7°F		Average Total Wattage ±10%		Suction Pressure ±2 In. Hg		Head Pressure ± 5 PSIG	
Ambient °F	70°	90°	70°	90°	70°	90°	70°	90°	70°	90°	70°	90°
26 cu ft	-15	-15	-16	-16	72	98	132	138	6"(vac.)	0	87	137

Schematic



Component Specifications

WARNING

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Component	Specifications all parts 115VAC/60HZ unless noted	
Compressor run capacitor	Volt.....	220 VAC
	Capacitance	15 µfd +10% -5%
Compressor	BTUH	905 BTUH
	Watt	60 Hz / 153 watts
	Current Lock rotor	19.0 amps± 15%
	Current Full load	1.26 amps± 15%
	Resistance Run windings.....	3.33 ohms± 15%
	Resistance Start windings.....	4.28 ohms± 15%
Damper control	Settings	Damper open temperatures
	#1	43.8°F
	#4	35.3°F
	#7	24.5°F
Freezer temperature control	Settings	Temperatures
	#1 – out	5.3°F ±3.5°
	#4 – out	-4.4°F ±2°
	#7 – out	-11.3°F ±3.5°
Condenser motor	Rotation (facing end opposite shaft)	Clockwise
	RPM.....	1250 RPM
	Watt.....	4.2 watts± 15%@115VAC
	Current.....	0.063 amps± 15%@115VAC
Evaporator fan motor	Rotation (facing end opposite shaft)	Clockwise
	RPM.....	2800 RPM
	Watt.....	5.9 ± 15% watts@115VAC
	Note: Fan blade must be fully seated on shaft to achieve proper airflow.	
Overload/Relay	Ult. trip amps @ 158°F (70°C).....	2.67 amps± 15%
	Close temperature	142°F ±48°
	Open temperature	284°F ±41°
	Short time trip (seconds).....	10 seconds ±5
	Short time trip (amps @77°F (25°C))..	11.0 amps ±2amps
Thermostat	Volt	120/240 VAC
	Watt	495 watts
	Current	5.8/2.9 amps
	Resistance across terminals:	
	Above 42°F ±5°	Open
	Below 12°F ±7°	Closed
Evaporator heater	Volt.....	115 VAC
	Wattage.....	450 ±5% watts @ 115VAC
	Resistance	29.3 ±7.5% ohms
Adaptive defrost board	Volt.....	120VAC, 60 HZ
	See adaptive defrost board section	
Auger Motor	Rotation (facing end opposite shaft)	Power to blue and white is clockwise. Power to orange and white is counterclockwise
	RPM.....	17± 3 RPM
Water Valve (primary)	Watts	Brown side 35w, Yellow side 20w
Water Valve (secondary)	Watts	Brown side 35w, Yellow side 20w
Light switch	Type.....	SPST NC
	Volt.....	125/250 VAC
	Current.....	8 / 4 amps
Light switch / Interlock	Type.....	SPDT NO/NC
	Volt.....	125/250 VAC
	Current.....	8 / 4 amps
DC Solenoid (Ice Chute)	Resistance across leads.....	101 ohms ± 10%

Service Specifications

WARNING

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Seconds to dispense 10 oz. water

Supply pressure	35 psig	45 psig	55 psig	75 psig
Filter model Bypass installed	4.7	4.0	3.6	3.1
Filter model New filter installed	9.0	5.0	4.4	3.6

A minimum supply pressure of 35 psig for water filter units. Minimum pressure requirement ensures that water valves close and sufficient water volume is available to fill icemaker. Proper fill is 140 cc. of water in 7.5 seconds. Failure of water valves to close because of low pressure will result in fill-tube freeze-up or dripping at cavity.

Adaptive Defrost Board (ADC)

The ADC adapts the compressor run time between defrosts to achieve optimum defrost intervals by monitoring the cold control and length the defrost heater is on. After initial power up, defrost intervals is 4 hours (compressor run time). Defrost occurs immediately after the 4 hours. Optimum defrost is 15 minutes. Each additional minute the defrost thermostat remains closed, 1 hr. is subtracted from the previous defrost interval. Each minute the thermostat opens prior to optimum defrost, it extends the next defrost interval 1 hr. When in defrost if defrost terminator opens there is a 6 minute drip time before compressor restarts or ADC will terminate defrost at 30 minutes even if defrost thermostat has not opened and will reset the defrost interval to the 8 hr. minimum setting. 4 hours of continuous compressor run resets the next defrost interval to 8 hours and will initiate a defrost, if 8 hours of compressor run time has also occurred.

Power up Refrigeration mode will occur unless both the cold control and defrost terminator are open, in that case the defrost mode will occur for 2 minutes.

To Force Defrost: Turn cold control on and off 3 times within 6 seconds.

A forced defrost is immediate without any delay regardless of the cold control state or the defrost terminator state. (When the ADC cycles the unit into defrost on it's own defrost it is delayed until 4 minutes after the compressor has been cycled off by the cold control.)

Note: Cold control contacts must make and break for defrost to occur. In some cases freezer door must be left open to warm the cold control sensing capillary up to get the cold control contact to make and break. If cold control contacts do not make and break unit will not force a defrost.

To Terminate Defrost: The only way to manually terminate defrost is to disconnect power to the unit. Unit will automatically come out of defrost at the end of the normal defrost cycle.

Input Voltage Readings and Checks

L1 to L2.....Line voltage should be present when the unit is powered

CC to L2.....Line voltage should be present when the cold control contacts are closed and ADC is not in defrost.

STAT to L2.....Line voltage should be present when the ADC is in defrost mode and the defrost terminator contacts are closed

Output Voltage Readings and Checks

HTR to L2.....Line voltage should be present when the ADC is in defrost mode

COMP to L2.....Line voltage should be present when the ADC is not in the defrost mode.

NOTE: Refer to Service Bulletin F-896-S for complete diagnostics of Ice 'N Water™ dispenser control.