FOR SERVICE TECHNICIAN'S USE ONLY
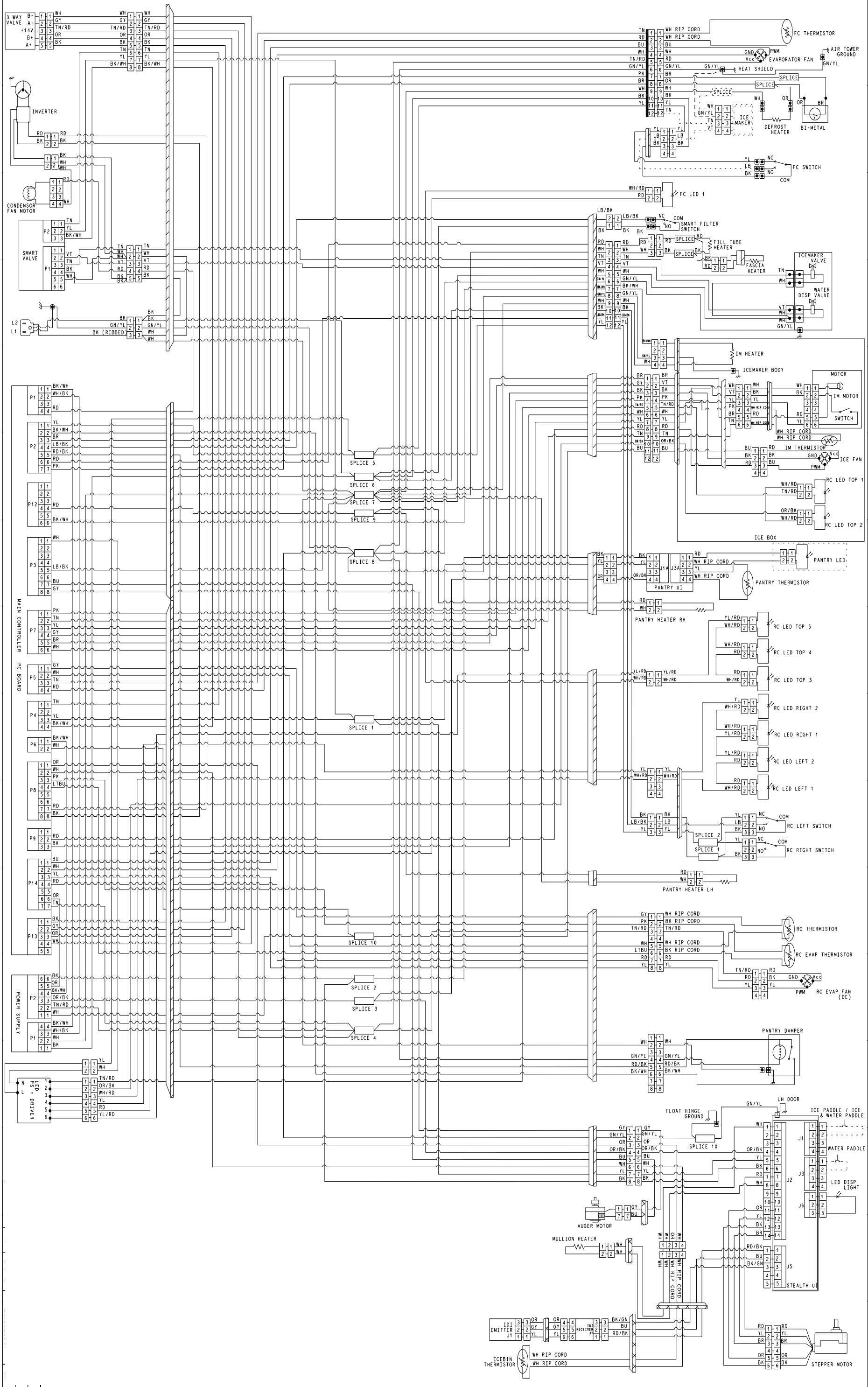
Tech Sheet   Do not Discard

⚠ 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.

⚠ DANGER

Electrical Shock Hazard
Only authorized technicians should perform diagnostic voltage measurements.
After performing voltage measurements, disconnect power before servicing.
Failure to follow these instructions can result in death or electrical shock.

Voltage Measurement Safety Information
When performing live voltage measurements, you must do the following:
- Verify the controls are in the off position so that the appliance does not start when energized.
- Allow enough space to perform the voltage measurements without obstructions.
- Keep other people a safe distance away from the appliance to prevent potential injury.
- Always use the proper testing equipment.
- After voltage measurements, always disconnect power before servicing.

No-Load Performance, Controls in Normal Position

	Kw/24 hr ±0.4	Percent Run Time ±10	Cycles/24 hr ±10	Refrigerator Compartment Average Food Temperature ±4°F	Freezer Compartment Average Food Temperature ±5°F	Icemaker Compartment Average Food Temperature ±5°F
Ambient °F	70° 90° 110°	70° 90° 110°	70° 90° 110°	70° 90° 110°	70° 90° 110°	70° 90° 110°
29 cu ft	0.9 1.5 2.8	50 70 90	28 22 10	37 37 37	0 0 0	24 24 24

Temperature Relationship Test Chart

	Refrigerator Evaporator Inlet/Outlet ±5°F	Freezer Evaporator Inlet/Outlet ±5°F	Suction Line ±7°F	Average Total Wattage ±10%	Suction Pressure ±2 PSIG	Head Pressure ± 5 PSIG
Ambient °F	70° 90°	70° 90°	70° 90°	70° 90°	70° 90°	70° 90°
29 cu ft	15 20	-11 -8	80 104	80-100 80-100	6.0 3.6	70 125

NOTE: This sheet contains important Technical Service Data.
FOR SERVICE TECHNICIAN ONLY
DO NOT REMOVE OR DESTROY

W10568022   W10568022

Component Specifications

Component	Specifications all parts 115VAC/60HZ unless noted
Cooling	
Compressor	BTUH.................... Variable VEGZ7H
	Watt.................... 60 Hz / 113 watts
	Current Lock rotor.......... 3.3 amps± 15%
	Current Full load............ 3.3 amps± 15%
	Resistance Run windings.............. 6.4 ohms± 15%
	Resistance Start windings.............. 6.4 ohms± 8%@77°F
	Inverter.................... 3-6 VDC, red/white = 120VAC
Electric damper control	Maximum closing time.................... 16 seconds
	Temperature Rating........................ -11°F- 110°F
	RPM.................... 3
Condenser motor	Rotation.......................... Clockwise (facing end opposite shaft)
	RPM.......................... 1190 RPM
	Watt.......................... 4.1watts±15% @115VAC
	Note: Fan blade must be fully seated on shaft to achieve proper airflow.
Refrigerator Evaporator fan motor	Rotation.......................... Clockwise (facing end opposite shaft)
	RPM.......................... 3300 RPM± 10%
	Watt.......................... 2.8 ±15% watts @14VDC
Freezer Evaporator fan motor	Rotation.......................... Clockwise (facing end opposite shaft)
	RPM.......................... 2800 RPM
	Watt.......................... 5.5±15% watts @14 VDC
	Note: Fan blade must be fully seated on shaft to achieve proper airflow.
Thermostat (Defrost)	Volt.................... 120/240 VAC
	Watt.................... 495 watts
	Current.................... 3.75/1.87 amps
	Resistance across terminals: 56 K ohms
	Above 42°F ±5°................Open
	Below 12°F ±7°................Closed
Freezer Evaporator Heater	Volt.................... 115 VAC
	Wattage.................... 435 ±5% watts
	Resistance.................... 30.4 ±5% ohms
Controls	
Control board	Volt.................... 120 VAC,60HZ
	See control board section for diagnostics
Thermistor	Temperature.................... Resistance
	77°F.................... 2700 ohms± 5.0%
	36°F.................... 7964 ohms± 1.0%
	0°F.................... 23,345 ohms± 2.0%
Light switch	Type.................... SPDT NO/NC
	Volt.................... 125/250 VAC
	Current.................... 8/4 amps
Ice & Water	
Dual Water Valve	Watts.................... Green side 20w, Red side 35w
Isolation Valve	Watts.................... 20w (Green)
Ice Box Fan	Rotation.......................... Clockwise (facing end opposite shaft)
	RPM.......................... 3500 RPM
	Watt.......................... 4.2W ±15% watts@ 14 VDC

Control board Troubleshooting

SWITCH DIAGRAM

□	□	□	□	□	□
SW1	SW2	SW3	SW4	SW5	SW6

To ENTER SERVICE DIAGNOSTICS Mode:
Press SW1 and SW2 simultaneously for 3 seconds. Release both buttons when you hear the CHIME indicator. Unit must not be in Lockout prior to entering SERVICE DIAGNOSTIC MODE.
The display will show 01 to indicate the control is in step 1 of the diagnostics routine.

To EXIT SERVICE DIAGNOSTICS Mode: do one of the following 3 options:
- Press SW1 and SW2 simultaneously for 3 seconds.
- Disconnect the product from power.
- Allow 20 minutes to pass.
Following the exit of the diagnostic mode, the controls will then resume normal operation.

Cooling diagnostics are steps 1 through 7 and 32 through 39. Dispensing diagnostics are steps 8 through 31. Each step must be manually advanced. Press SW5 to move to the next step in the sequence. Press SW4 to back up in the sequence to the previous step. Diagnostics will begin at Step 1. Each step is displayed in the two digits of the dispenser user interface display. The step results are displayed in the two digits on dispenser user interface display 2 seconds after the step number is displayed. An amber order filter light will be shown to designate that the step number is being displayed and a red replace filter light will be shown to designate that the status of the step is being displayed. All button and pad inputs shall be ignored and all inputs shall be off except as described in the actions for each step.

Service Test - 1 FC thermistor
- The board will check the resistance value of the thermistor and display flashes results on the Temp Display. (01 = Pass, 02 = Open, 03 = Short)
Service Test - 2 RC thermistor
- The board will check the resistance value of the thermistor and display the results on the Temp Display (01 = Pass, 02 = Open, 03 = Short)
Service Test - 3 Evaporator fan motor and air baffle motor
- Control the RC & FC Evaporator Fan Mtrs. by depressing SW3 (01= Both Fan Mtr. off. 02 =FC Fan on.)
- Depress SW3 once to advance. Step 3 will flash quickly and advances to steps 13/23 very quickly. The result is RC Fan on, Pantry Air Damper on. Pantry Air Damper will open and close automatically. (13= Damper Open. 23= Damper Closed). Verify air flow inside pantry on left hand side when damper is open, (13 displayed). Air flow in pantry will cease when 23 is displayed).
- Depress SW3 to advance to last step. (04 = Both RC & FC fans on).
Service Test - 4 Compressor/ condenser fan motor/evaporator fan
- There will be a delay of 3 seconds before start of sub step 01. Each step is timed and be automatically proceed tho the next step. User will not be allowed to exit step. If exit is attempted, an invalid chime will be produced.
- Control the Sealed System loads selecting SW3 (01 = Initialize Dual Evap Valve in home position (4min), 02 = Close both RC&FC Evap Valve (1min), 03 = Turn compressor On (1min), 04 = Keep compressor ON, drive the valve to RC position & turn RC fan ON, 05 = Keep compressor ON, drive the valve to FC position & turn FC fan ON. Verify air flow from the evaporator fan.
Note: Advance quickly through step 4 to keep from locking in. Once locked in you can't exit, must wait ten minutes approximately.
Service Test - 5 Compressor Status / Speed
- Initial Display 02 = Minimum speed
- Depress SW3. Display = 03. Compressor Ramps up to Max speed. When Max speed reached, 01 displayed.
- Depress SW3. Display = 04 Speed ramps down from Max to minimum speed. Display = 02
Service Test - 6 Defrost heater/Bi-metal
- Note: if bi-metal is open, it will need to be by-passed for heater to operate. Heater should be on. Display will be blank until a valid reading is displayed. (01 = Bi-metal closed, 02 = Bi-metal open)
Service Test - 7 Defrost mode Selection
- The defrost mode can be set by using SW3. In ADC Mode the product will automatically defrost after a minimum of 8 hours of compressor runtime up to maximum of 96 hours of compressor runtime, depending upon product usage. In Basic Mode the product will automatically defrost after 8 hours of compressor runtime. (01 = ADC ON, 02 = Basic Mode ON 8 hour timer.)
Service Test - 8 All UI indicators
- Verify that all LED indicators and UI display digits turn on automatically. All indicators ON for 30 second timeout.
Service Test - 9 UI Button and Pad Test
- Displays the user Interface Buttons and Ice and Water Pads status as described in the Component Status Indicator column,below.
NOTE: Do not use SW4 and SW5 as these are used only to navigate through the Service Diagnostics.

Press	Digit 1 Digit 2
SW1	1
SW2	2
SW3	3
SW6	6
Ice Pad	1
Water Pad	2
Ice & Water Pads	3

NOTE: SW4 and SW5 are used for navigation and are not displayed.

Service Test - 11 Dispenser Lighting
- Pressing SW3 will change the dispenser lighting setting from OFF (0%) to ON (100%) to DIM (50%) Status indicator is Blank
Service Test - 12 Accent Light Turns on
Service Test - 15 Ice Level Sensor
- Displays the Ice Bin Status in real time on the UI display. Verify that the full and not full levels display correctly. (01 = Bin Full, 02 = Bin Not Full)
Service Test - 16 RC Door Switch Input
- Displays the RC Door status in real time on the UI display. Verify that the open and close status display correctly. (01 = RC Door open, 02 = RC Door closed)
Service Test - 17 FC Door Switch Input
- Displays the FC Door status in real time on the UI display. Verify that the open and close status display correctly. (01 = FC Door Open, 02 = FC Door Closed)
Service Test - 18 Ice Door Motor
- Displays the Ice Door stepper motor state on the UI display. Press ice paddle and verify that the mechanical operation of the ice door corresponds to the component status indicator. NOTE: Ice door will have a delay in closing after an ice paddle is released. (01 = Closed, 02 = Opening, 03 = Open, 04 = Closing)
Service Test - 19 Ice Maker Fill Tube Heater and Facia Heater Status
- Control the Ice Maker Fill Tube Heater and Facia Heater selecting SW3 (toggle between On and Off) (01 = ON, 02 = OFF)
Service Test - 20 Water Filter Usage Rating
- Displays in two sequential flashes the total water usage rating in gallons for the water filter on the UI display. Wait until dash is displayed which means end of the number. (00/0- to 99/9-)
Example: 123 will be displayed as [12] [3-]
Service Test - 21 Water Filter Time Rating
- Displays in two sequential flashes the total time rating in days for the water filter on the UI display. Wait until dash is displayed which means end of the number. (00/0- to 99/9-) Example: 123 will be displayed as 12 3-
Service Test - 22 Water Filter Usage
- Displays in two sequential flashes the current water filter status in gallons used since last reset on the UI display. Wait until dash is displayed which means end of the number. (00/0- to 99/9-) Example: 123 will be displayed as [12] [3-]

Service Test - 23 Water Filter Time
- Displays in two sequential flashes the current water filter status in days since last reset on the UI display. Wait until dash is displayed which means end of the number. (00/0- to 99/9-)
Example: 123 will be displayed as [12] [3-]
Service Test - 24 Water Filter Reset
- Display in two sequential flashes the current times the water filter was reset on the UI display. Wait until dash is displayed which means end of the number. (00/0- to 99/9-) Example: 123 will be displayed as [12] [3-]
Service Test - 26 Main Control Software Version NOTE: Not normally used
- Displays in three sequential flashes the Main Control software version on the UI display. **NOTE:** This is repeatedly displayed during all time in this step. 00/00/00 to 99/99/99
Service Test - 27 Dispenser UI Control Software Version NOTE: Not normally used
- Displays in three sequential flashes the Dispenser UI Control software version on the UI display. **NOTE:** This is repeatedly displayed during all time in this step. 00/00/00 to 99/99/99
Service Test - 28 Smart Valve Software Version NOTE: Not normally used
- Displays in three sequential flashes the Smart Valve software version on the UI display. **NOTE:** This is repeatedly displayed during all time in this step. 00/00/00 to 99/99/99
Service Test - 29 Low Voltage IDI Software Version NOTE: Not normally used
- Displays in three sequential flashes the low voltage software version on the UI display. **NOTE:** This is repeatedly displayed during all time in this step. 00/00/00 to 99/99/99
Service Test - 31 Touch Input Module Software NOTE: Not normally used
- Displays in three sequential flashes the Dispenser UI Control software version on the UI display. NOTE: This is repeatedly displayed during all time in this step. 00/00/00 to 99/99/99
Service Test - 32 Ambient Thermistor UI Control
- This is an internal board test. The board will check the resistance value of the thermistor and display the results. (01 = Pass, 02 = Open, 03 = Short)
Service Test - 33 Humidity Sensor UI Control
- Relative Humidity Test (Humidity % Value 0-99 = pass or Er = Fail)
Service Test - 34 Vertical Mullion Heater Mode
- Set the Vertical Mullion Heater Sensor Mode by selecting SW3. (01 = Sensor Operation On, 02 = Sensor Operation Off) (Heater on 100%)
Service Test - 35 Vertical Mullion Heater Status
- Control the Vertical Mullion Heater selecting SW3 (toggle between On and Off) (01 = ON, 02 = OFF)
Service Test - 36 Ice Box Fan
- Check for fan operation. Control Ice Box Fan using SW3. Display the status on Temp Display. (01 = ON, 02 = OFF). Verify air flow from the IB fan.
Service Test - 37 Ice Box Thermistor
- The board will check the resistance value of the thermistor and display the results on the Temp Display (01 = Pass, 02 = Open, 03 = Short)
Service Test - 38 Forced Defrost mode
- Set the Forced Defrost Mode by selecting SW3. OF = No Forced Defrost, Sh = Short Defrost, Lo = Long Defrost
Service Test - 39 RC Evap Thermistor
- The board will check the resistance value of the thermistor and display the results on the Temp Display. (01 = Pass, 02 = Open, 03 = Short)
Service Test - 42 UI EEPROM Control Software Version NOTE: Not normally used
- Displays in three sequential flashes the Dispenser UI Control software version on the UI display. **NOTE:** This is repeatedly displayed during all time in this step. 00/00/00 to 99/99/99
Service Test - 43 UI FLASH Control Software Version NOTE: Not normally used
- Displays in three sequential flashes the Dispenser UI Control software version on the UI display. **NOTE:** This is repeatedly displayed during all time in this step. 00/00/00 to 99/99/99
Service Test - 45 Ice Maker Water Fill Test
NOTE: BEFORE INITIATING THIS TEST, GO TO STEP 57, INITIATE ICE MAKER HARVEST TO INSURE ALL ICE IS EJECTED FROM MOLD BEFORE FILLING.
- After an initial 3 second delay, displays the Ice Maker water fill state on the UI display. Press SW3 to start awater fill. Pressing SW3 will toggle between ON and PAUSE. (02 = Off, 03 = On, 04 = Paused
Service Test - 46 Water dispensing Test
- Displays the status of the water dispense valve. Press the water pad to initiate a water dispense. (00 = Water Dispense Valve Off, 01 = Water Dispense Valve On)
Service Test - 56 Ice Maker Error Codes
- Displays active Ice Maker Error Codes on the UI display. (E0 = No Errors, E1 = No Cooling, E2 = Motor Lost Position, E3 = Heater Timeout, E4 = Dry Cycle, E5 = Timed Ice Making)
Service Test - 57 Ice Maker Harvest
- Press SW3 to activate a Harvest sequence. Digit 1 displays the state of the sequence. Digit 2 displays the outcome of the sequence. Once initiated, the sequence cannot be exited.
Digit 1   0 = Heater and Motor OFF, 1 = IM Heater ON, 2 = Motor Rotating CW until it finds home position
Digit 2   0 = In Progress, 1 = Harvesting Completed, 2 = Harvesting Not Completed, Doors must be closed.
NOTE: Harvesting Not Completed does not exit the step, but indicates the timeout of 70 seconds has passed.
Service Test - 58 Ice Maker Heater Activation and Thermistor
- Press SW3 to activate the Ice Maker Heater and to toggle between On and Off. Digit 1 displays the state of the heater. Digit 2 displays the thermistor state.
Digit 1   0 = IM Heater OFF, 1 = IM Heater ON
Digit 2   0 = Temp warmer than harvest temp, 1 = Temp cooler than harvest temp, 2 = Open, 3 = Short
Service Test - 59 Ice Maker Motor
- Press SW3 to activate a Motor sequence and toggle through each step. Digit 1 displays the state of the motor. Digit 2 displays the status of the motor. Once initiated, the sequence cannot be exited.
Digit 1   0 = Motor OFF, 1 = Motor Rotating CW until home position, 2 = Motor OFF, 3 = Motor Rotating CCW until home position
Digit 2   0 = In Progress, 1 = Harvesting Completed, 2 = Harvesting Not Completed
NOTE: Harvesting Not Completed does not exit the step, but indicates the timeout of 70 seconds has passed.
Service Test - 60 Pantry UI Software Version NOTE: Not normally used
- Displays in three sequential flashes the Pantry UI Control software version on the UI display.
NOTE: This is repeatedly displayed during all time in this step. 00/00/00 to 99/99/99
Service Test - 61 Pantry Touch Input Module Software NOTE: Not normally used
- Displays in three sequential flashes the Pantry UI Control software version on the UI display.
NOTE: This is repeatedly displayed during all time in this step. 00/00/00 to 99/99/99
Service Test - 62 Pantry Lighting (On Some Models)
- Pressing SW3 will change the pantry lighting setting from OFF (0%) to ON (100%). (00 = OFF, 01 = ON).
Service Test - 63 All Pantry UI indicators
- Verify that all pantry LED indicators and pantry UI display digits turn on automatically. All indicators ON for 30 second timeout.
Service Test - 64 Pantry UI Button Test
- Displays the pantry UI Buttons status.

Press	Digit 1 Digit 2	FN25 and FN 54		FN25 and FN 54	
		Label	Control key	Label	Control key
SW1	0 1	Preset	SW703	Meat/Poultry	SW701
SW2	0 2	"+"	SW704	Cold Drinks	SW702
SW3	0 3	"-"	SW705	Deli/Cheese	SW703
SW4	0 4				
SW5	0 5				

Service Test - 65 Pantry thermistor
- The board will check the resistance value of the thermistor and display the results on the Temp Display (01 = Pass, 02 = Open, 03 = Short)
Service Test - 66 Manufacturing Codes
- Displays the active manufacturing errors codes stored in the UI. Press SW3 to toggle between the Errors. See status on Temp Display (E0 = No Error, E1 = LPIM Motor Faulty, E2 = Damper Cycle not completed, E3 = Thermistor Faulty, E4 = Ice Bin not present or Full, E5 = Heater Bimetal Faulty, E6 = Dispenser UI EEPROM Faulty, Er = Communication Failure).
NOTE: Step is used by Whirlpool Manufacturing plant only.
Service Test - 67 Water Filter Switch Status
- Displays the water filter switch status in real time on the UI display. Verify that the open and close status displays correctly. (01 = Switch open, filter installed, 02 = Switch closed, filter not installed)
Service Test - 73 Pantry Heater Status
- Control the Pantry Heater selecting SW3 (toggle between On and Off) (01 = ON, 02 = OFF)

Schematic (labels)

120 VAC — N — L — GND

CONDENSOR FAN — INVERTER — VCC COMPRESSOR

AIR BAFFLE — T/B — NEUTRAL — LINE — FILL TUBE HEATER — BI-METAL — DEFROST HEATER — FASCIA HEATER — SMART FILTER SWITCH — PANTRY HEATER LH — PANTRY HEATER RH

SOL — IW VALVE — WATER VALVE — FC SWITCH — RC RH SWITCH — RC LH SWITCH

AUGER MOTOR — IW HEATER — IW THERMISTOR — SWITCH — IW MOTOR — SMART VALVE — ICE BOX

MAIN CONTROLLER / FC BOARD

RC THERMISTOR — ICEBOX FAN — FC THERMISTOR

ICE BIN THERMISTOR — RC EVAP THERMISTOR

3x15W P/S BOARD

FC EVAP FAN (DC) — RC EVAP FAN (DC)

PANTRY LED — WH RIP CORD — PANTRY UI — PANTRY THERMISTOR

MULLION HEATER — ICE PADDLE / ICE & WATER PADDLE — WATER PADDLE

3 WAY VALVE — ICE DOOR MOTOR — LED DISP LIGHT

LED PS + DRIVER — RC LED TOP 1 — RC LED TOP 2 — RC LED LEFT 1 — RC LED LEFT 2 — RC LED RIGHT 1 — RC LED RIGHT 2 — FC LED 1 — RC LED TOP 3 — RC LED TOP 4 — RC LED TOP 5

RECEIVER BOARD — EMITTER BOARD — STEALTH UI

Conditions Table

	FROM	TO	VOLTAGE	CONDITIONS
POWER SUPPLY	P1-1	P1-2	115VAC	CONSTANT 115 VAC
	P1-3	P1-4		CONSTANT 115 VAC
	P2-1	P2-4	14VDC	CONSTANT 14VDC
	P2-2	P2-5		CONSTANT 14VDC
	P2-3	P2-6		CONSTANT 14VDC
P1	P1-1	P1-2	115VAC	CONSTANT 115 VAC
	P1-2	P1-2		CONSTANT 115 VAC
P2	P2-1	P1-2	115VAC	RC OR FC DOOR OPEN 115V. DOORS CLOSED = 0V
	P2-2	P1-2		AIR BAFFLE FEEDBACK. ACTIVATE SERVICE TEST 3, STEP 3
	P2-3	P1-2		FC DEFROST HEATER OUTPUT, BI-METAL BYPASS. SERVICE TEST 6. 115V IF BI-METAL CLOSED
	P2-4	P1-2	115VAC	WATER FILTER REMOVED 115V. FILTER INSTALLED 0V
	P2-5	P1-2		AIR BAFFLE HEATER OUTPUT. ACTIVATE SERVICE TEST 3, STEP 3
	P2-6	P1-2		FILL TUBE, FASCIA HEATER OUTPUT. SERVICE TEST 19. 01=115V, 02=0V
	P2-7	P1-2		FC DEFROST HEATER OUTPUT, W/BI-METAL. SERVICE TEST 6. 115V
MAIN CONTROL	P3-1	P2-1	115VAC	RC OR FC DOOR OPEN 115V. DOORS CLOSED = 0V
	P3-1	P3-8		LEFT RC DOOR MUST BE CLOSED =115V. OPEN= 0V
	P3-7	P3-8	130VDC	AUGER OUTPUT, LH RC DOOR CLOSED, ACTIVATE ICEE PADDLE = 130-140VDC
	P4-1	P4-4	14 VDC	CONSTANT 14VDC
	P4-3		COMMUNICATION	NOT USED
	P5-1	P5-2	5VDC	RC THERMISTOR OUTPUT =1.5-5VDC MAXIMUM
	P5-3	P5-4		FC THERMISTOR OUTPUT =1.5-5VDC MAXIMUM
	P7-1	P7-2	5VDC	IW THERMISTOR OUTPUT =1.5-5VDC MAXIMUM
	P7-5	P7-6	14VDC	IW MOTOR OUTPUT TEST 57, SW3 TO ACTIVATE. UP TO 2MIN DELAY
	P8-1	P8-2	5VDC	ICE BIN THERMISTOR OUTPUT =1.5-5VDC MAXIMUM
	P8-3	P8-4		RC EVAP THERMISTOR =1.5-5VDC MAXIMUM
	P8-7	P8-8	3-6VDC	INVERTER OUTPUT 3-6 VDC CONSTANT
	P9	P9-2	P9-3	ICEBOX FAN OUTPUT TEST 36, SW3 TO ACTIVATE 01=14VDC
P12	P12-4	P1-2		PANTRY HEATER OUTPUT TEST 73. 01=115VAC
	P12-6	P1-2	115VAC	IW HEATER OUTPUT TEST 58, SW3 TO ACTIVATE 01: 115VAC
	P13-1	P13-2		3WAY REFRIGERANT VALVE, CAN NOT CHECK VOLTAGE OUTPUT
	P13-3	P13-4		3WAY REFRIGERANT VALVE, CAN NOT CHECK VOLTAGE OUTPUT
	P14-1	P14-2	14VDC	RC FAN MOTOR OUTPUT ACTIVATE SERVICE TEST 3
P-14	P14-3	P14-4		RC FAN MOTOR OUTPUT ACTIVATE SERVICE TEST 3
	P14-7	P14-6		CONSTANT 14VDC
SMART VALVE	P1	P1-5		PUSH WATER DISPENSER PADDLE TO ACTIVATE
	P1-1	P1-5	115VAC	ACTIVATE SERVICE TEST 45 IN DIAGNOSTICS, PRESS & HOLD SW3 = 115VAC
	P1-4	P1-5		CONSTANT 115 VAC
P2	P2-1	P2-3	14VDC	CONSTANT 14VDC
	P2-2		COMMUNICATION	
EMITTER/RECEIVER	J1-1	J1-3	14VDC	CONSTANT 14VDC
J1	J1-2			COMMUNICATION
				NOT USED
				REFER TO SERVICE TEST 15 FOR VERIFYING THE EMMITTER/RECEIVER BOARDS
PANTRY UI	J1A-1	J1A-1	14VDC	CONSTANT 14VDC
	J1A-2		COMMUNICATION	
	J3A-1	J3A-3	14VDC	LED OUTPUT 14VDC WHEN TURNED ON
	J3-3	J3-4	5VDC	PANTRY THERMISTOR OUTPUT = 1.5-5VDC MAXIMUM
DISPENSER BOARD	J1-1	J1-3	14VDC	*14VDC WHEN ICE DISPENSER PAD IS PRESSED, 14VDC WHEN RELEASED
J1	J1-1	J1-3		*ICE DISPENSER BUTTON IS PRESSED, (IF J1-3 USED)
	J1-2	J1-3		*ICE DISPENSER PAD IS PRESSED, (IF J1-3 USED)
	J2-8	J2-8	14VDC	FLIPPER MULLION HEATER IS ON
	J2-6		14VDC	CONSTANT 14VDC
	J2-11			*ICE DOOR STEPPER MOTOR IS ACTIVE
J2	J2-12		-2.5VDC	*ICE DOOR STEPPER MOTOR IS ACTIVE
	J2-7	J2-13		*ICE DOOR STEPPER MOTOR IS ACTIVE
	J2-14			*ICE DOOR STEPPER MOTOR IS ACTIVE
	J3-1	J3-2		*14VDC WHEN ICE DISPENSER PAD IS PRESSED, 14VDC WHEN RELEASED
J3	J3-1	J3-3		*WATER DISPENSER BUTTON IS PRESSED (IF J3-3 USED)
	J3-2	J3-3		*WATER DISPENSER PAD IS PRESSED (IF J3-3 USED)
J5	J5-1	J5-3	14VDC	CONSTANT 14VDC
	J5-2		COMMUNICATION	
J6	J6-1	J6-3	14VDC	DISPENSER LIGHT ON

* PULSING DC SIGNAL MAY NOT BE READ WITH ALL METERS

Wiring Diagram (labels)

3 WAY VALVE — INVERTER — CONDENSOR FAN MOTOR — SMART VALVE

FC THERMISTOR — AIR TOWER GROUND — EVAPORATOR FAN — HEAT SHIELD — ICE MAKER — DEFROST HEATER — BI-METAL — FC SWITCH — FC LED 1

SMART FILTER SWITCH — FILL TUBE HEATER — ICEMAKER VALVE — WATER VALVE — IW HEATER — ICEMAKER BODY — IW MOTOR — SWITCH — RC EVAP FAN — ICE BOX

MAIN CONTROLLER / FC BOARD — POWER SUPPLY

PANTRY LED — PANTRY UI — PANTRY THERMISTOR — PANTRY HEATER RH — PANTRY HEATER LH

RC LED TOP 5 / TOP 4 / TOP 3 — RC LED RIGHT 2 — RC LED LEFT 2 — RC LED LEFT 1 — RC LEFT SWITCH — RC RIGHT SWITCH

RC THERMISTOR — RC EVAP THERMISTOR

SPLICE 1–10

PANTRY DAMPER — FLOAT HINGE GROUND — LH DOOR — ICE PADDLE / ICE & WATER PADDLE — WATER PADDLE — LED DISP LIGHT

AUGER MOTOR — MULLION HEATER — STEALTH UI — EMITTER — ICEBIN THERMISTOR — WH RIP CORD — STEPPER MOTOR