FOR SERVICE TECHNICIAN'S USE ONLY

NOTE: This sheet contains important Technical Service Data.

⚠ 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.

⚠ 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.

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.**

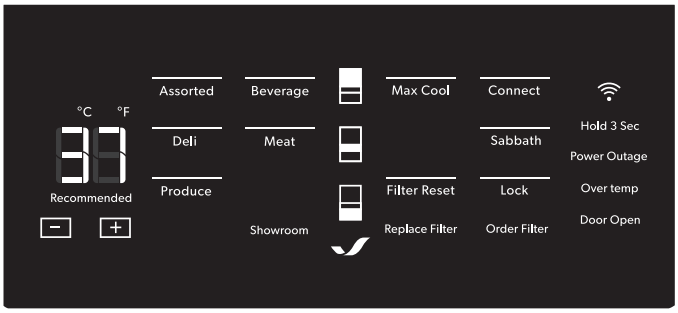
Evaporator heater	1) 18" & 24"
	Volts.....120 VAC
	Wattage.....200 W
	Resistance..... 72 ohms ± 5%
	2) 30" & 36"
	Volts.....120 VAC
	Wattage.....400 W
	Resistance..... 36 ohms ± 5%

Component Specifications

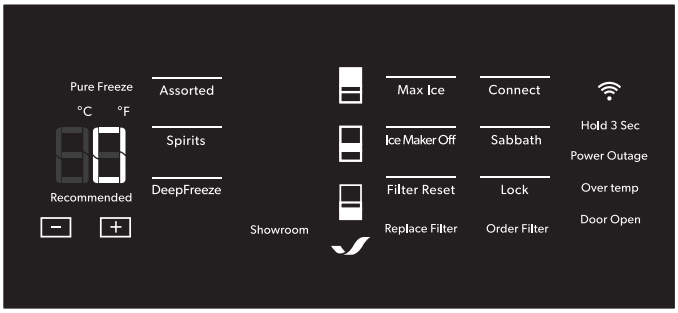
Component	Specifications all parts 115 VAC/60 HZ unless noted
Cooling	
Compressor	BTUH.....Variable VEGD6H
	Wattage FC .....60 Hz/158 W @ 4000 RPM
	Wattage RC .....60 Hz/193 W @ 4000 RPM
	Current lock rotor .....3.30 A
	Current full load.....3.30 A
	Resistance run windings.....7.69 Ω @ 25°C ± 8%
	Resistance start windings.....7.69 Ω @ 25°C ± 8%
	Inverter..... Input 115 V, 3.1 A Output 250 V, 1.1 A
Condenser Motor	Rotation.....Clockwise (facing end opposite shaft)
	RPM.....1240 RPM
	Wattage.....2.3 ± 1 W @ 115 VAC
	NOTE: Fan blade must be fully seated on shaft to achieve proper airflow
Refrigerator/ Freezer Evaporator Fan Motor	Rotation.....Clockwise (facing end opposite shaft)
	RPM.....Minimum 3450 RPM @ 12 VDC and 100% duty cycle
	Wattage.....Maximum 4.2 W @ 12 VDC and 100% duty cycle
Controls	
Control Board	Volts.....120 VAC, 60 Hz See control board section for diagnostics.
Thermistor	Temperature.....Resistance
	77°F/25°C.....2700 ohms ± 5.0%
	36°F/2°C..... 7964 ohms ± 1.0%
	0°F/-18°C..... 23,345 ohms ± 2.0%
Light Switch	Type.....SPDT NO/NC
	Volts..... 125/250 VAC
	Current..... 8/4 A
Ice and Water	
Mullion Valve	Wattage..... 16 W @ 12 VDC
Isolation Valve Refrigerator	Wattage..... 20 W @ 120 VAC
Isolation Valve Freezer	Wattage..... 35 W @ 120 VAC
Fill Tube Heater	Volts.....8 W
	Wattage.....12 VDC
	Resistance..... 18 ohms ± 7.5%

Control Board Troubleshooting
Accessing Service Mode

Refrigerator Control



Freezer Control



To Enter Service Diagnostics Mode:

Press the pulsing JennAir logo to wake up the UI. Press the middle zone key. Press CONNECT key slightly before assorted key and hold both for 3 seconds. Release both keypads when you hear the chime indicator. 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 four options:

- Press ASSORTED and CONNECT simultaneously for 3 seconds.
- Select Step 0 by pressing Enter key (DEEPFREEZE in the Freezer Control or PRODUCE in the Refrigerator Control).
- Disconnect the power from the product.
- Allow 20 minutes to pass.

The controls will resume normal operation after exiting Service Diagnostics Mode.

Each step must be manually advanced. Press + to move to the next step in the sequence. Press - to go back to the previous step. Diagnostics will begin at Step 1. Each step is displayed in the two digits of the internal user interface display. The step results are displayed in the two digits on the internal user interface display when the Enter key. To return to the step selection after running one step, press the Back key (SPIRITS in the Freezer Control, DELI in the Refrigerator Control).

Key Assignments		
Service mode requirement	**Keypad on Django UI**	
	Freezer	Refrigerator
Enter Key For Navigation	Press DEEPFREEZE keypad	Press PRODUCE keypad
Increment Key For Navigation	Press “+” Keypad	Press “+” Keypad
Decrement Key For Navigation	Press “-” Keypad	Press “-” Keypad
Back Key For Navigation	Press SPIRITS Keypad	Press DELI Keypad
Degree C LED Indicator	Press °C Indicator	
Degree F LED Indicator	Press °F Indicator	
Enter Service Key Combination	**NOTE:** Press CONNECT key slightly before ASSORTED key and hold both for 3 seconds.	
Exit Service Key Combination	**NOTE:** Press CONNECT key slightly before ASSORTED key and hold both for 3 seconds.	

Service Test 00 – Exit Service Mode
Service Test 01 – Deli Compartment Thermistor
Read Deli Compartment Thermistor value or indicate SH for short circuit and OP for open circuit.
Service Test 02 – Main Compartment Thermistor
Read Main Compartment Thermistor value or indicate SH for short circuit and OP for open circuit.
Service Test 04 – Evaporator Thermistor
Read Evaporator Thermistor value or indicate SH for short circuit and OP for open circuit.
Service Test 14 – Crisper Thermistor (Refrigerator Only)
Read Crisper Compartment Thermistor value or indicate SH for short circuit and OP for open circuit.
Service Test 16 – Ice Maker Tray 1 Thermistor (Freezer Only)
Read Ice Maker Tray Thermistor value or indicate SH for short circuit and OP for open circuit.
Service Test 23 – Deli Maximum Temperature
Maximum temperature reached during the last 6 hours of operation.
Service Test 24 – Main Maximum Temperature
Maximum temperature reached during the last 6 hours of operation.
Service Test 26 – Crisper Maximum Temperature
Maximum temperature reached during the last 6 hours of operation.
Service Test 28 – Deli Average Temperature
Average temperature during the last 6 hours of operation.
Service Test 29 – Main Compartment Average Temperature
Average temperature during the last 6 hours of operation.
Service Test 31 – Crisper Average Temperature
Average temperature during the last 6 hours of operation.
Service Test 33 – Deli Minimum Temperature
Minimum temperature during the last 6 hours of operation.
Service Test 34 – Main Minimum Temperature
Minimum temperature during the last 6 hours of operation.
Service Test 36 – Crisper Minimum Temperature
Minimum temperature during the last 6 hours of operation.
Service Test 38 – Compressor Speed Change Without Ramp

In this step, UI will lock out until 2.5 minutes has passed. In this test, the compressor will turn on but the unit will not cool.
Control the compressor speed. When entering Service Test, the compressor goes off if it was previously on.

- Press the + or - keypad to select the power from 0 to 133Hz (0 to max speed). When pressing the Enter key, the compressor will change power.
- After changing the power keypad from 0. the compressor will shut off after 2.5 minutes.

Service Test 39 – Compressor Speed Change With Ramp
In this step, UI will lock out until 2.5 minutes has passed. In this test, the compressor will turn on but the unit will not cool.
Control the compressor speed. When entering Service Test, the compressor goes off if it was previously on.

- Press the + or - keypad to select the power from 0 to 133Hz (0 to max speed). When pressing the Enter key the compressor will ramp up to the selected frequency.
- After changing the power keypad from 0, the compressor will shut off after 2.5 minutes.

Service Test 40 – Compressor and Compartment Freezing Cooling Test
After entering, the compressor will be turned on and will be turned off when leaving the step.
"off" – Off
"on" – On (Compressor on at 100%)
Service Test 42 – Deli Air Baffle State
When entering Service Test, the damper continuously turns, showing the state in the numeric display.

- Possible position readings:
  "00" - Air Baffle in Open Position
  "02" - Air Baffle in Closed Position

Service Test 43 – Crisper Air Baffle State (Refrigerator Only)
When entering Service Test, the damper continuously turns, showing the state in the numeric display.

- Possible position readings:
  "00" - Air Baffle in Open Position
  "02" - Air Baffle in Closed Position

Service Test 44 – Deli Perimeter Lighting

- When entering Service Test, the Deli Perimeter Lights turn on. The display shows "ON."
- When leaving Service Test, the Deli Perimeter lights turn off.

Service Test 45 – Main Perimeter Lighting

- When entering Service Test, the Main Perimeter Lights turn on. The display shows "ON."
- When leaving Service Test, the Main Perimeter lights turn off.

Service Test 46 – Crisper Perimeter Lighting

- When entering Service Test, the Crisper Perimeter Lights turn on. The display shows "ON."
- When leaving Service Test, the Crisper Perimeter lights turn off.

Service Test 47 – Tower Lighting

- When entering Service Test, the Tower and Top Lights turn on. The display shows "ON."
- When leaving Service Test, the Tower and Top lights turn off.

Service Test 54 – Crisper Lighting

- When entering Service Test, the Crisper Lights turn on. The display shows "ON."
- When leaving Service Test, the Crisper lights turn off.

Service Test 56 – Evap Fan Test

- When entering Service Test, the Evap Fan turns on. The display shows "ON."
- When leaving Service Test, the Evap Fan turns off.

Service Test 58 – Condenser Fan Test

- When entering Service Test, the Condenser Fan turns on. The display shows "ON."
- When leaving Service Test, the Condenser Fan turns off.

Service Test 66 – Ice Maker Fill Tube Heater Test (Freezer Only)

- When entering Service Test, the Ice Maker Fill Tube Heater turns on. The display shows "ON."
- When leaving Service Test, the Ice Maker Fill Tube Heater turns off.

Service Test 73 – Door Switch State

- "00" identifies door OPEN and "01" identifies door CLOSED. Press the switch inside the hinge pocket manually to see state change.
- "00" identifies Water Dispenser Switch is CLOSED and
  "01" identifies Water Dispenser Switch is OPEN.

Service Test 82 – Water Dispenser Switch State

- "00" identifies Water Dispenser Switch is CLOSED and
  "01" identifies Water Dispenser Switch is OPEN.

Service Test 89 – Run Defrost Heater

- When entering this Service Test, Defrost Heater turns on and stays on for 5 minutes or until the evaporator thermistor goes above 60°F (16°C).
- "--" will be displayed while the operation is executed

Service Test 91 – Run a Forced Defrost

- Activates the Forced Defrost.
- When ON is selected and exiting Service Mode, defrost will be executed.
- When OFF is selected and exiting Service Mode, defrost will NOT be executed. FF will be displayed when OFF.
- Press + or - key pad to change state.

Service Test 92 – Turn All User Interface LEDs ON

- When entering Service Test, all indicators and keypads will light up in the two user interfaces (UIs).
- The icons turn automatically off after 30 seconds.

Service Test 93 – User Interface Keypad Test

- When inside Service Test, the numeric display shows "00" for no keypad press and "01" for keypad press.

Service Test 96 – Water Valve General Test (RC Only)

- When entering Service Test, the Water Dispenser Valve turns on for 7 seconds.

Service Test 97 – Ice Maker Valve General Test (FC Only)

- When entering Service Test, the Freezer Ice Maker Water Valve turns on for 7 seconds.

For steps 100 and above, initiating the step will display the first two numbers example 01, then a slight delay of about 2 seconds, then the next set of numbers would display showing for example, "06" indicating you are in step 106.

Service Test 100 – Display Water Filter Gallons Remaining

- Displays the remaining gallons of water left on the water filter

Service Test 101 – Display Water Filter Days Remaining

- Displays the remaining days left on the water filter.

Service Test 102 – Display Days Since Last Water Filter Reset

- Displays the total amount of days since the last Water Filter Reset.

Service Test 103 – Display Number of Water Filter Resets

- Displays the total amount of Water Filter Resets that have occurred over the life of the product.

Service Test 106 – Wi-Fi Link Connection Self Test

- While the test is in progress, the display will show:
  "00" – Link Test in Progress.
- Following the completion of the Link Test, the display will transition to the following code designation:
  "01" – Not able to link with AP or WISE.
  "02" – Not able to link with WISE.
  "03" – Connected to AP and WISE.

Service Test 107 – Wi-Fi Antenna Self Test

- While the test is in progress the display shall show :
  "00" – Link Test in Progress
- Following the completion of the Link Test, the display shall transition to the following code designation:
  "01" – Antenna A is good
  "02" – Antenna B is good
  "03" – Antenna A and B not functioning
  "04" – Antenna A and B are good

Service Test 108 – Wi-Fi Antenna 1 Signal Strength (Top Filter Assy)

- Display the measured value as a percentage of possible range. The possible range to the technician is 0% to 100%.

Service Test 109 – Wi-Fi Antenna 2 Signal Strength (Toe Kick)

- Display the measured value as a percentage of possible range. The possible range to the technician is 0% to 100%.

Service Test 120 – Check Ice Maker Self Diagnostics (Freezer Only)

- "00" – Stopped
- "01" – Moving to End of Harvest Location
- "03" – Reached End of Harvest Location
- "04" – Moving Back to Homing Location

Service Test 126 – Change Defrost Type

- Press + or - key pad to change mode.
- Displays the current Defrost Mode. (01 Default)
- Engineer will then choose between the 2 available modes. Pressing the Enter key will save the selection.
- The display will then return to Service Test Screen where the selected Duty cycle will be displayed.
- Available Defrost Modes: “01” - Global Defrost Routine ON “02” - Basic Mode ON (8 hour timer).

Service Test 127 – Gemini Flash 2 SW Version Number (Main ACU)

- Show XX for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show YY for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show ZZ for 1 second (version format XX YY ZZ)
- Keep Blank when Complete.

Service Test 128 – Gemini Flash 2 Flashmap Version Number (Main ACU)

- Show XX for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show YY for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show ZZ for 1 second (version format XX YY ZZ)
- Keep Blank when Complete.

Service Test 134 – Django UI SW Version Number (Internal UI)

- Show XX for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show YY for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show ZZ for 1 second (version format XX YY ZZ)
- Keep Blank when Complete.

Service Test 135 – Django UI Flashmap Version Number (Internal UI)

- Show XX for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show YY for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show ZZ for 1 second (version format XX YY ZZ)
- Keep Blank when Complete.

Service Test 136 – Django UI Touch EEPROM Version Number (Internal UI)

- Show XX for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show YY for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show ZZ for 1 second (version format XX YY ZZ)
- Keep Blank when Complete.

Service Test 137 – Wi-Fi SW Version Number

- Show XX for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show YY for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show ZZ for 1 second (version format XX YY ZZ)
- Keep Blank when Complete.

Service Test 140 – Neleus SW Version Number (LED Driver)

- Show XX for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show YY for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show ZZ for 1 second (version format XX YY ZZ)
- Keep Blank when Complete.

Service Test 141 – Neleus Flashmap Version Number (LED Driver)

- Show XX for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show YY for 1 second (version format XX YY ZZ)
- Blank for 0.5s
- Show ZZ for 1 second (version format XX YY ZZ)
- Keep Blank when Complete.

FOR SERVICE TECHNICIAN'S USE ONLY

Wiring Diagram

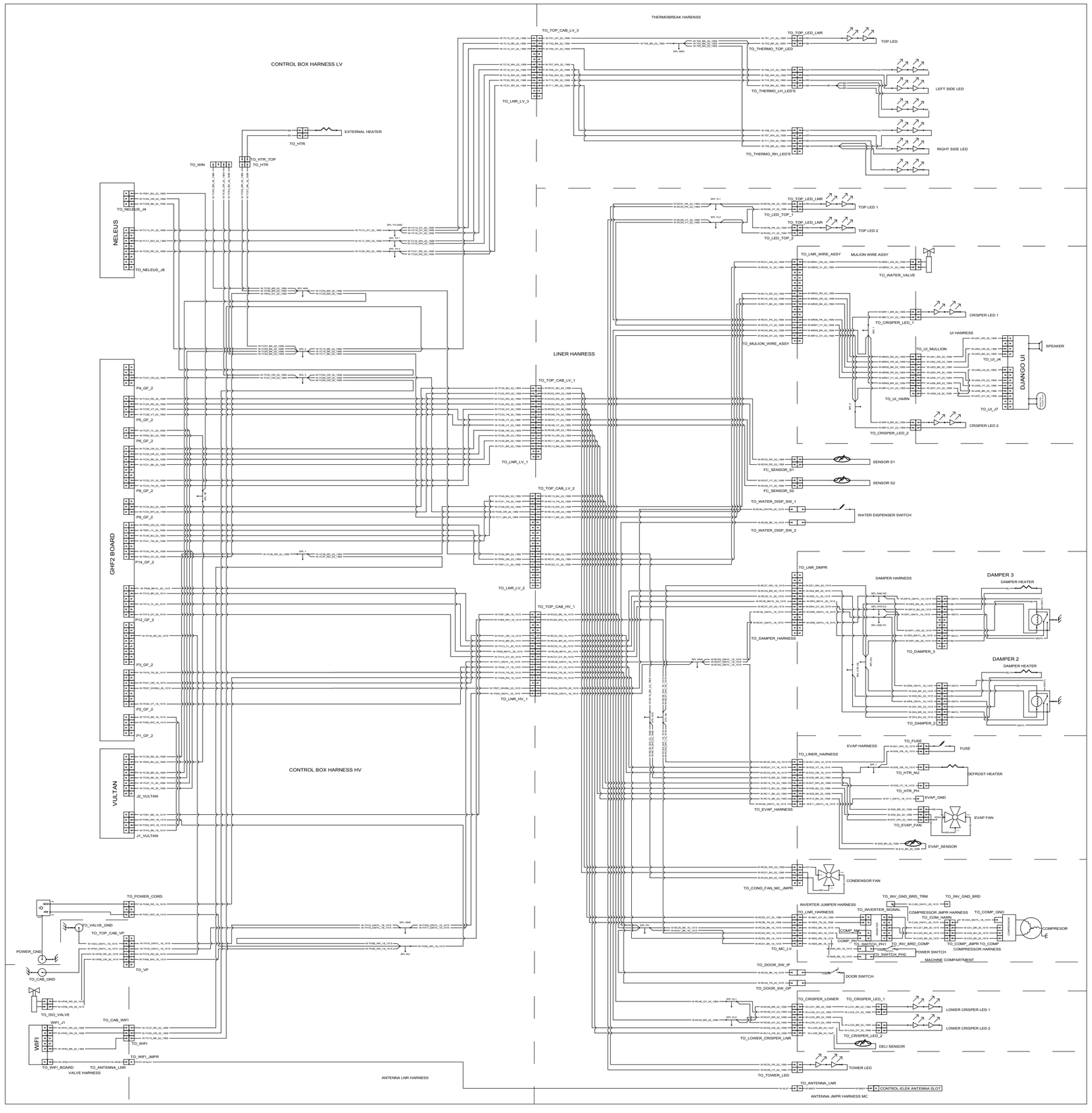
Rev C

W10918869D **Assy: W10918229C**

W10918869D **Assy: W10918229C**

Refrigerator DWG. No.: W10894590 Rev. C

rev: A



REV	DESCRIPTION OF CHANGE	LOC	BY	C.N.	DATE
A	TO RELEASE W10894590	L14-1	VIJAYM1	2096919	24-MAR-2017
B	REV W10894590 TO B	L14-1	VIJAYM1	2117037	31-JUN-2017
	CONN "WIFI_J1" WIRE W-VP02 CKT 2 WAS 3	L2-1			
	POWER SWITCH TERMINALS "TO_SWITCH_PH1" & "TO_SWITCH_PH2" MOVED FROM CONTROL BOX HARNESS TO INVERTER JUMPER HARNESS	J10-1			
	ADDED WIRE "W-TH26"	J3-1			
	REMOVED WIRES "W-TH02", "W-TH03", "W-TH04"	I5-1			
	REMOVED SPLICE "SPL PH"	I5-1			
	WIRE "W-TH01" CONNECTION TO "TO_LNR_HV_1" WAS "SPL PH"	I5-1			
	ADDED WIRE "W-RC61" "W-RC62"	J9-1			
	ADDED WIRE "W-IN05" "W-IN06"	J9-1			
	CONNETOR "TO_COM_HARN" WIRE "W-CJ01" CKT 2 WAS " 4 WIRE "W-CJ03" CKT 4 WAS " 2	J10-1			
	CONNETOR "TO_COM_HARN" WIRE "W-CI1" CKT 2 WAS " 4 WIRE "W-CI3" CKT 4 WAS " 2	J11-1			
	CONNETOR "TO_COMP" WIRE "W-CI1" CKT 1 WAS " 3 WIRE "W-CI3" CKT 3 WAS " 1	J11-1			
	WIRE "W-DI5" COLOR YELLOW WAS GREY	G9-1			
	WIRE "W-DR4" COLOR GREY WAS YELLOW	G9-1			
	WIRE "W-DR3" COLOR BK/YL WAS PK	G9-1			
	WIRE "W-TH12" COLOR BR WAS PK	G6-1			
	WIRE "W-RC34" COLOR BR WAS PK	G7-1			
	WIRE "W-RC36" COLOR BK/YL WAS BR	G7-1			
	WIRE "W-TR28" COLOR BK/YL WAS BR	G6-1			
C	REV W10894590 TO C	L14-1	VIJAYM1	2176972	26-OCT-2018
	WIRE "W-TR43" "SPL WIN" WAS "J2_VULTAN" CKT 3	D4-1			

VULTAN POWER SUPPLY

		FROM	TO	
Power Supply	J1	J1-1	J1-2	CONSTANT 115 VAC WHEN UNIT IS ON
		J1-3	J1-4	CONSTANT 115 VAC WHEN UNIT IS ON
	J2	J2-1	J2-5	CONSTANT 12.7 VDC WHEN UNIT IS ON
		J2-2	J2-6	CONSTANT 12.7 VDC WHEN UNIT IS ON
		J2-3	J2-7	CONSTANT 12.7 VDC WHEN UNIT IS ON
		J2-4	J2-5	CONSTANT 12.7 VDC WHEN UNIT IS ON

NELEUS ACU - LED DRIVER

		FROM	TO	
NELEUS LED DRIVER	J4	J4-1	J4-3	CONSTANT 12.7 VDC WHEN UNIT IS ON
		J4-2		COMMUNICATION
	J8	J8-1	J4-2	12.7 VDC WHEN TOP PERIMETER LIGHTS ARE AT MAX BRIGHTNESS
		J8-3	J4-2	12.7 VDC WHEN DELI PERIMETER LIGHTS ARE AT MAX BRIGHTNESS
		J8-5	J4-2	12.7 VDC WHEN CRISPER PERIMETER LIGHTS ARE AT MAX BRIGHTNESS

DJANGO UI

		FROM	TO	
DJANGO UI	8 PIN CONNECTOR	PIN-1	PIN-3	CONSTANT 12.7 VDC WHEN UNIT IS ON
		PIN-2		COMMUNICATION
		PIN-4	PIN-5	WHEN AIR TOWER AND TOP LIGHTS ARE ON
		PIN-6	PIN-7	WHEN CRISPER LIGHTS ARE ON
		PIN-8	PIN-3	12.7 V WHEN FILL TUBE HEATER IS ON (FREEZER ONLY)

ARIES BOARD

		FROM	TO	
ARIES GF2	P1	P1-1	P1-2	CONSTANT 115 VAC WHEN PRODUCT IS ON
	P2	P2-1	P1-2	DOOR OPEN 115 V. DOOR CLOSED = 0 V
		P2-4	P1-2	115 V WHEN WATER DISPENSER PADDLE IS PRESSED (REFRIGERATOR MODEL ONLY)
		P2-7	P1-2	115 V WHEN DEFROST HEATER IS ON
	P3	P3-3	P1-2	115 VAC WHEN ISOLATION VALVE IS ON
	P4	P4-3		COMMUNICATION
	P5	P5-1	P5-2	5 VDC INPUT MAIN THERMISTOR
		P5-3	P5-4	5 VDC INPUT DELI THERMISTOR
	P6	P6-1	P6-2	CONSTANT 12.7 VDC WHEN CONNECTED TO POWER SUPPLY
	P7	P7-1	P7-2	5 VDC INPUT ICE MAKER THERMISTOR
		P7-3	P7-4	5 VDC INPUT ICE MAKER POSITION ENCODER
		P7-5	P7-6	-12 V WHEN ICE MAKER IS MOVING
	P8	P8-1	P8-2	5 VDC INPUT CRISPER THERMISTOR (REFRIGERATOR ONLY)
		P8-3	P8-4	5 VDC INPUT EVAP THERMISTOR
		P8-5	P8-8	~6 VDC AT 45Hz to 133Hz FREQUENCY WHEN COMPRESSOR IS ON
	P9	P9-2	P9-3	12.7 VDC WHEN CONDENSER FAN IS OFF 0 VDC WHEN CONDENSER FAN IS ON
	P12	P12-1	P1-2	115 VAC WHEN CRISPER DAMPER IS CLOSED (REFRIGERATOR ONLY)
		P12-2	P1-2	115 VAC WHEN DELI DAMPER IS CLOSED
		P12-4	P1-2	115 VAC WHEN DELI DAMPER IS MOVING
		P12-6	P1-2	115VAC WHEN CRISPER DAMPER IS MOVING (REFRIGERATOR ONLY)
	P14	P14-1	P14-2	12.7 VDC WHEN DISPENSING WATER (REFRIGERATOR ONLY)
		P14-3	P14-7	12.7 VDC WHEN EVAP FAN IS AT MAX SPEED
		P14-6	P14-7	CONSTANT 14 VDC WHEN CONNECTED TO POWER SUPPLY

NOTE: This sheet contains important Technical Service Data

FOR SERVICE TECHNICIAN ONLY
DO NOT REMOVE OR DESTROY

TREATMENT: &g_treatment

TOLERANCE: 0 PL %%p1.0 mm | 1 PL %%p0.5 mm | 2 PL %%p0.25 mm | ANGLES %%p1%%127

MATERIAL: &g_material

UNITS: mm | THIRD ANGLE PROJECTION | INTERPRETATION PER ASME Y14.5M-1994 | CREATION DATE: 23-JAN-2017

SCALE: &scale | DO NOT SCALE | = CONTROL CHARACTERISTIC | DRAWN BY: VIJAYM1

DESCRIPTION (ENGLISH): WIRING DIAGRAM OBERON - REFRIGERATOR

DESCRIPTION (LOCAL):

Whirlpool Corporation Benton Harbor, MI, USA

DRAWING SIZE	SHEET	DRAWING NUMBER	DRAWING REV
A0	1 OF 1	W10894590	C

W10894590	C
PART NO.	REV

12/18

FOR SERVICE TECHNICIAN'S USE ONLY

Wiring Diagram

Rev C

W10918869D **Assy: W10918229C**

W10918869D **Assy: W10918229C**

Freezer DWG. No.: W10912085 Rev. C

rev: A

REV	DESCRIPTION OF CHANGE	LOC	BY	C.N.	DATE
A	TO RELEASE W10912085	L14-1	VIJAYM1	2096919	13-MAR-2017
B	REV W10912085 TO B	L14-1	VIJAYM1	2117037	04-JAN-2018
	CONN "WIFI_J1" WIRE W-VP02 CKT 2 WAS 3	L1-1			
	CONN "TO_IM_MOTOR" WIRE W-IM06 CKT 1 WAS 3 WIRE W-IM05 CKT 3 WAS 1	C11-1			
	POWER SWITCH TERMINALS "TO_SWITCH_PH1" & "TO_SWITCH_PH2" MOVED FROM CONTROL BOX HARNESS TO INVERTER JUMPER HARNESS	J9-1			
	ADDED WIRE "W-TH26"	J2-1			
	REMOVED WIRES "W-TH12", "W-TH03", "W-TH04"	IS-1 J2-1			
	REMOVED SPLICE "SPL-PH"	IS-1			
	WIRE "W-TH01" CONNECTION TO "TO_LNR_HV_1" WAS "SPL PH"	G6-1			
	ADDED WIRE "W-FC66" "W-FC67"	J8-1			
	ADDED WIRE "W-IN05" "W-IN06"	J9-1			
	ADDED "SPL F2 HTR"	E9-1			
	ADDED WIRE W-MF23,W-MF24,W-MF25	D10-1			
	ADDED FILL TUBE HEATER 2	D10-1			
	WIRE "W-MF21" CONNECTION "SPL F2 HTR" WAS "TO_FILLTUBE_HTR" CKT 3	E10-1			
	CONNETOR "TO_COM_HARN" WIRE "W-CJ01" CKT 2 WAS " 4 WIRE "W-CJ03" CKT 4 WAS " 2	J10-1			
	CONNETOR "TO_COM_HARN" WIRE "W-CO1" CKT 2 WAS " 4 WIRE "W-CO3" CKT 4 WAS " 2	J10-1			
	CONNETOR "TO_COMP" WIRE "W-CO1" CKT 1 WAS " 3 WIRE "W-CO3" CKT 3 WAS " 1	J10-1			
	REMOVED WIRE "W-LC05", "W-LC06"	K9-1			
	REMOVED DELI SENSOR	K9-1			
	WIRE "W-FC42" COLOR BR WAS PK	G6-1			
	WIRE "W-TH12" COLOR BR WAS PK	G6-1			
	REMOVED WIRE "W-FC09" & "W-FC10"	E6-1			
	WIRE "W-IM05" & "W-MF05" COLOR LB WAS PK	C10-1			
	WIRE "W-FC37" & "W-TF48" COLOR LB WAS PK	F6-1			
	WIRE "W-TF48" & "W-FC24" COLOR BU/WH WAS TN	F6-1			
	WIRE "W-MF06" & "W-IM06" COLOR BU/WH WAS TN	D10-1			
	WIRE "W-D05" COLOR YL WAS GY	F9-1			
	ADDED "TO_IM_SW_1"	F9-1			
	ADDED "TO_IM_SW_2"	F9-1			
	WIRE "W-FC03" "TO_IM_SW_2" WAS "TO_MULION_WIRE_ASSY" CKT 5	F8-1			
	ADDED WIRE "W-FC68"	F8-1			
C	REV W10912085 TO C	L14-1	VIJAYM1	2149730	03-APR-2018
	REMOVED CONN "TO_FILLTUBE_HTR"	D10-1			
	ADDED CONN "TO_FL_HTR_1" & "TO_FL_HTR_2"	D10-1			
	UPDATED WIRE CONNECTIONS "W-MF10", "W-MF23", "W-MF24" & "W-MF25"	D10-1			

VULTAN POWER SUPPLY

		FROM	TO	
Power Supply	J1	J1-1	J1-2	CONSTANT 115 VAC WHEN UNIT IS ON
		J1-3	J1-4	CONSTANT 115 VAC WHEN UNIT IS ON
	J2	J2-1	J2-5	CONSTANT 12.7 VDC WHEN UNIT IS ON
		J2-2	J2-6	CONSTANT 12.7 VDC WHEN UNIT IS ON
		J2-3	J2-7	CONSTANT 12.7 VDC WHEN UNIT IS ON
		J2-4	J2-5	CONSTANT 12.7 VDC WHEN UNIT IS ON

NELEUS ACU - LED DRIVER

		FROM	TO	
NELEUS LED DRIVER	J4	J4-1	J4-3	CONSTANT 12.7 VDC WHEN UNIT IS ON
		J4-2		COMMUNICATION
	J8	J8-1	J4-2	12.7 VDC WHEN TOP PERIMETER LIGHTS ARE AT MAX BRIGHTNESS
		J8-3	J4-2	12.7 VDC WHEN DELI PERIMETER LIGHTS ARE AT MAX BRIGHTNESS
		J8-5	J4-2	12.7 VDC WHEN CRISPER PERIMETER LIGHTS ARE AT MAX BRIGHTNESS

DJANGO UI

		FROM	TO	
DJANGO UI	8 PIN CONNECTOR	PIN-1	PIN-3	CONSTANT 12.7 VDC WHEN UNIT IS ON
		PIN-2		COMMUNICATION
		PIN-4	PIN-5	WHEN AIR TOWER AND TOP LIGHTS ARE ON
		PIN-6	PIN-7	WHEN CRISPER LIGHTS ARE ON
		PIN-8	PIN-3	12.7 V WHEN FILL TUBE HEATER IS ON (FREEZER ONLY)

ARIES BOARD

		FROM	TO	
ARIES GF2	P1	P1-1	P1-2	CONSTANT 115 VAC WHEN PRODUCT IS ON
	P2	P2-1	P1-2	DOOR OPEN 115 V. DOOR CLOSED = 0 V
		P2-4	P1-2	115V WHEN WATER DISPENSER PADDLE IS PRESSED (REFRIGERATOR MODEL ONLY)
		P2-7	P1-2	115 V WHEN DEFROST HEATER IS ON
	P3	P3-3	P1-2	115 VAC WHEN ISOLATION VALVE IS ON
	P4	P4-3		COMMUNICATION
	P5	P5-1	P5-2	5 VDC INPUT MAIN THERMISTOR
		P5-3	P5-4	5 VDC INPUT DELI THERMISTOR
	P6	P6-1	P6-2	CONSTANT 12.7 VDC WHEN CONNECTED TO POWER SUPPLY
	P7	P7-1	P7-2	5 VDC INPUT ICE MAKER THERMISTOR
		P7-3	P7-4	5 VDC INPUT ICE MAKER POSITION ENCODER
		P7-5	P7-6	~12 V WHEN ICE MAKER IS MOVING
	P8	P8-1	P8-2	5 VDC INPUT CRISPER THERMISTOR (REFRIGERATOR ONLY)
		P8-3	P8-4	5 VDC INPUT EVAP THERMISTOR
		P8-5	P8-8	~6 VDC AT 43Hz to 133Hz FREQUENCY WHEN COMPRESSOR IS ON
	P9	P9-2	P9-3	12.7 VDC WHEN CONDENSER FAN IS OFF 0 VDC WHEN CONDENSER FAN IS ON
	P12	P12-1	P1-2	115 VAC WHEN CRISPER DAMPER IS CLOSED (REFRIGERATOR ONLY)
		P12-2	P1-2	115 VAC WHEN DELI DAMPER IS CLOSED
		P12-4	P1-2	115 VAC WHEN DELI DAMPER IS MOVING
		P12-6	P1-2	115 VAC WHEN CRISPER DAMPER IS MOVING (REFRIGERATOR ONLY)
	P14	P14-1	P14-2	12.7 VDC WHEN DISPENSING WATER (REFRIGERATOR ONLY)
		P14-3	P14-7	12.7 VDC WHEN EVAP FAN IS AT MAX SPEED
		P14-6	P14-7	CONSTANT 14 VDC WHEN CONNECTED TO POWER SUPPLY

NOTE: This sheet contains important Technical Service Data

FOR SERVICE TECHNICIAN ONLY
DO NOT REMOVE OR DESTROY

TREATMENT: &g_treatment

TOLERANCE: 0 PL %%p1.0 mm | 1 PL %%p0.5 mm | 2 PL %%p0.25 mm | ANGLES %%p1%%127

MATERIAL: &g_material

UNITS: mm | SCALE: &Scale | DO NOT SCALE | THIRD ANGLE PROJECTION

INTERPRETATION PER ASME Y14.5M-1994

= CONTROL CHARACTERISTIC

CREATION DATE: 23-JAN-2017

DRAWN BY: VIJAYM1

DESCRIPTION (ENGLISH): WIRING DIAGRAM OBERON - FREEZER

DESCRIPTION (LOCAL):

Whirlpool Corporation, Benton Harbor, MI, USA

W10912085	C
PART NO.	REV

DRAWING SIZE	SHEET	DRAWING NUMBER	DRAWING REV
A0	1 OF 1	W10912085	C