COMPONENT TESTING

CENTRAL CONTROL UNIT

Connector Location
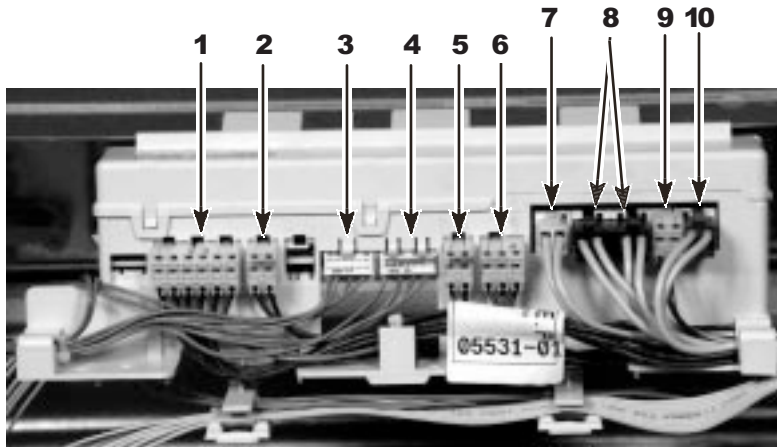
1. Pressure Switch
2. Temperature Sensor
3. Dispenser Switch/Motor
4. Inlet Valves
5. Drain Pump
6. Door Lock Solenoids
7. Motor Control Unit Power
8. Door Lock Main Switches
9. Heating Element Relay
10. Line Filter
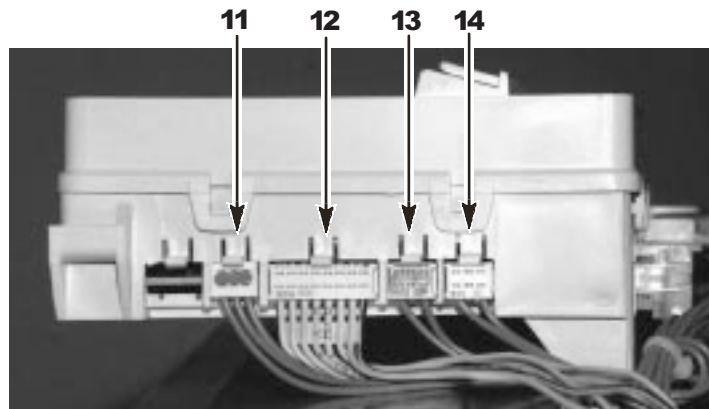
11. Serial Comm Link
12. Touchpad/LED Ribbon Cable
13. Door Switch
14. Flowmeter

⚠ WARNING

ELECTRICAL SHOCK HAZARD

Disconnect power before servicing.

Replace all panels before operating.

Failure to do so can result in death or electrical shock.

COMPONENT CHECKS

Continuity checks can be made on various components of the washer from the connectors on the Central Control Unit. Before performing any of these tests, disconnect the washer from the wall outlet. In addition, disconnect the wiring harness connector from the Central Control Unit before making any continuity tests.

Pressure Switch

The pressure switch can be checked at various water levels. Disconnect the pressure switch connector from the control box.

Water Level	Test Points	Reading
Empty	4 to 6	0 ohms
Suds Detect	1 to 2	0 ohms
L1	4 to 5	0 ohms
Overflow	3 to 4	0 ohms

Temperature Sensor

Temperature	Results
32° F (0° C)	35.9K Ω
86 ° F (30° C)	9.7K Ω
104° F (40° C)	6.6K Ω
122° F (50° C)	4.6K Ω
140° F (60° C)	3.2K Ω
158° F (70° C)	2.3K Ω
203° F (95° C)	1K Ω

Dispenser Switch and Motor
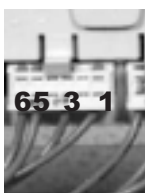
	Test Points	Reading
Switch	6 to 5	0 ohms
Motor	3 to 1	1400 ohms

Water Inlet Solenoids

	Test Points	Reading
Hot Water Solenoid	7 to 5	800 ohms
Cold Water Solenoid	3 to 1	800 ohms

Drain Pump Motor

Test Points	Reading
2 to 1	15 ohms

Door Lock/Unlock Solenoids
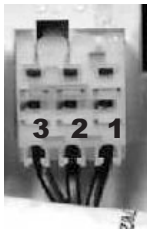
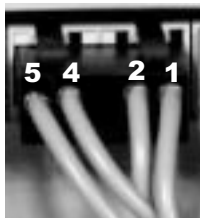|	Test Points	Reading
Unlock Solenoid	3 to 2	60 ohms
Lock Solenoid	3 to 1	60 ohms

Door Lock Main Switches

To check the door lock main switches, the door must be locked. Begin by selecting a cycle and press START. You will hear the door lock solenoid engage. Unplug the washer from the wall outlet and check for continuity at the following points.

	Test Points	Reading
Main Switch 1	5 to 4	0 ohms
Main Switch 2	2 to 1	0 ohms

Heating Element Relay Solenoid

Test Points	Reading
2 to 1	15 ohms

Door Switch

	Test Points	Reading
Door Closed	2 to 1	0 ohms
Door Open	2 to 1	Infinity

MOTOR CONTROL UNIT

Connector Location

Power Supply
— L
— N
— GND

Motor Connector
— 1 ⎫ **Motor**
— 2 ⎬ **Windings**
— 3 ⎭
— 4 ⎫ **Tachometer**
— 5 ⎭

1 to 2 = 6 ohms
1 to 3 = 6 ohms
2 to 3 = 6 ohms

Serial Comm Link
— Vcc
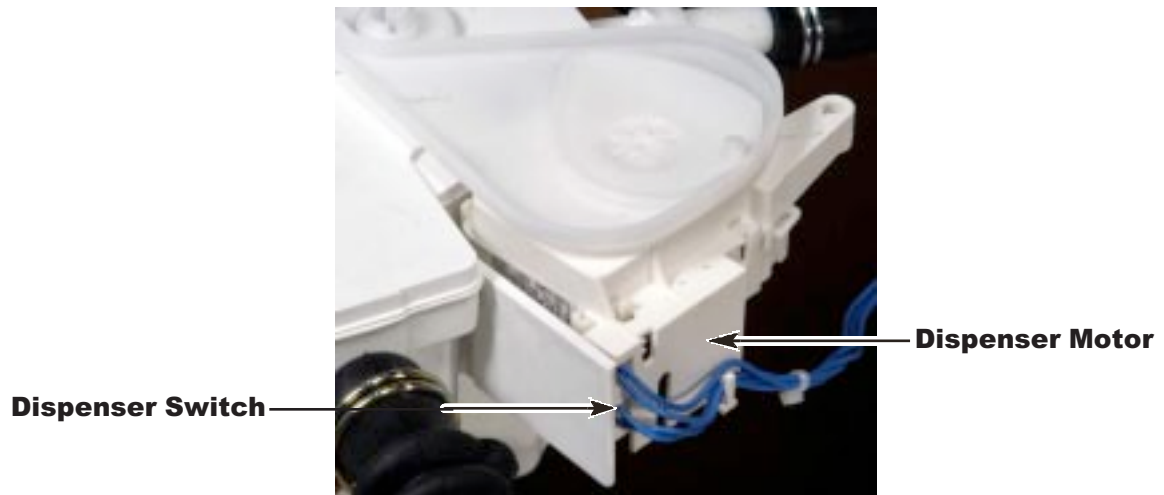— IN/OUT
— GND
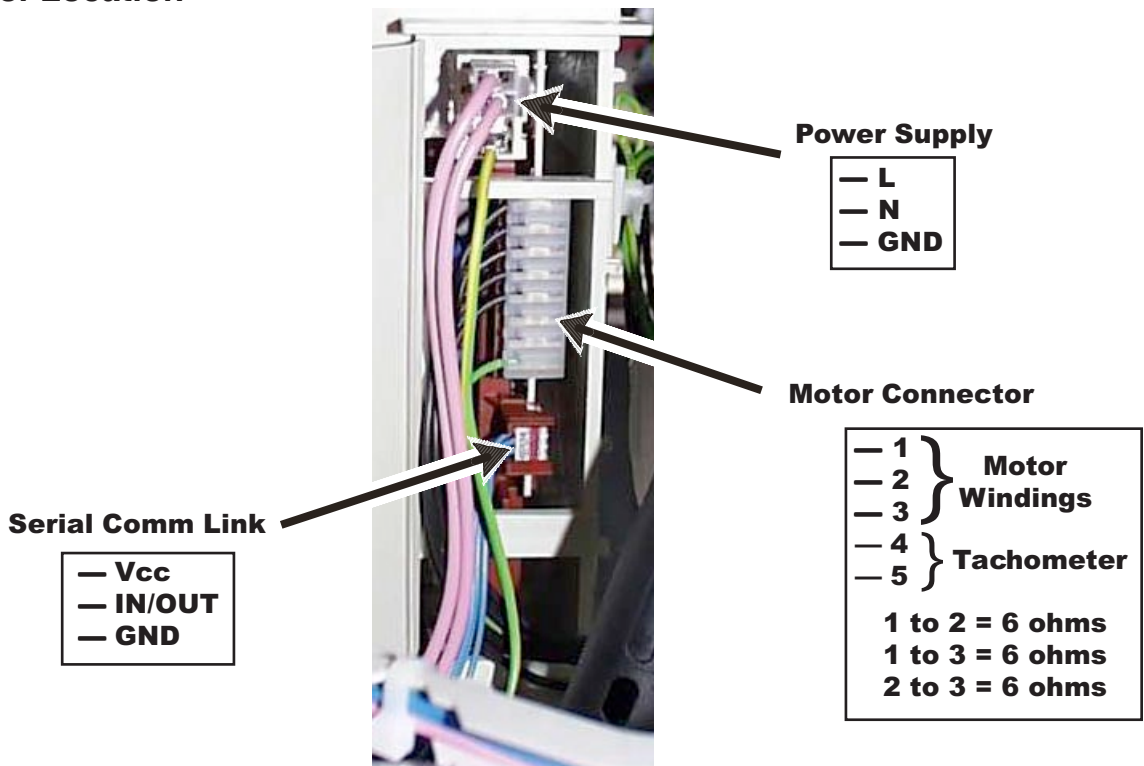
LINE FILTER

Test Points
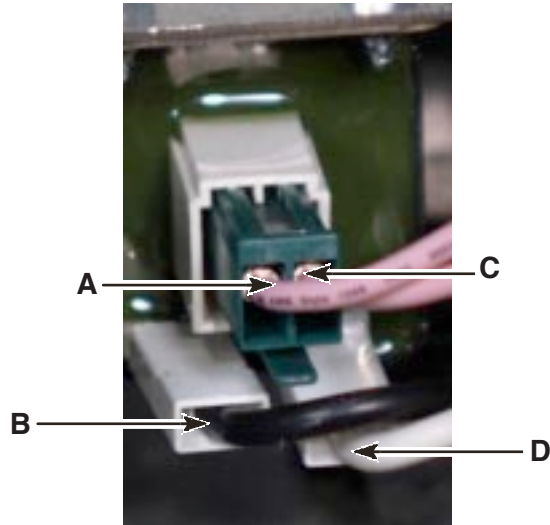
A to B = 0 ohms
C to D = 0 ohms

DISPENSER

Connector Location

Dispenser Motor Continuity Check - 1400 Ω

PRESSURE SWITCH

Connector Location

22 24 21 26 11 14   Blank

Water Level	Contacts Made
Empty	21 to 22
Suds Detect	11 to 14
Level 1	21 to 24
Overflow	21 to 26

HEATING ELEMENT and TEMPERATURE SENSOR

Connector Location

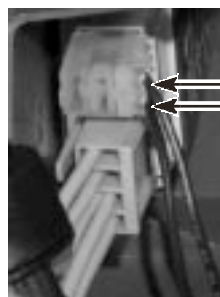**Heating Element Terminals**
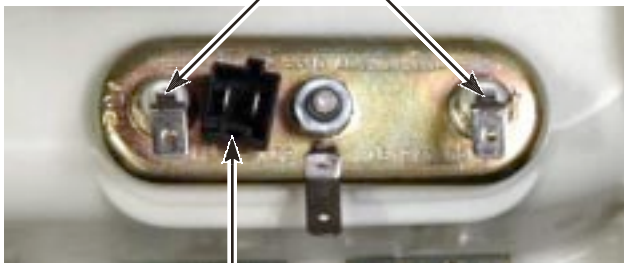
Temperature Sensor Terminals

Heating Element

Test Points   **Reading**
Between Terminals   15 ohms

Temperature Sensor

Temperature	Results
32° F (0° C)	35.9K Ω
86 ° F (30° C)	9.7K Ω
104° F (40° C)	6.6K Ω
122° F (50° C)	4.6K Ω
140° F (60° C)	3.2K Ω
158° F (70° C)	2.3K Ω
203° F (95° C)	1K Ω

HEATING ELEMENT RELAY SOLENOID

A
B

A to B = 15 ohms