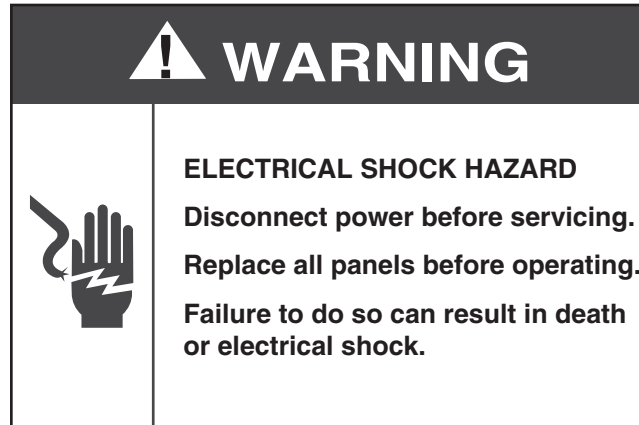


# Component Testing Procedures



## Introduction

**Before testing the components, ALWAYS:**

- Make sure that the power cord is firmly plugged into a live circuit with the proper voltage.
- Check for a blown household fuse or circuit breaker that has tripped.
- Make sure that the dryer vent is properly installed and clear of lint obstructions. (WD802M Only.)

**When testing, follow these instructions:**

- Resistance tests **MUST** be made with the power cord unplugged from the outlet, and the wire connector removed from the Module Board.
- All tests should be made with a VOM (volt ohmmeter) or DVM (digital volt ohmmeter) having a sensitivity of 20,000 ohms-per-volt DC or greater.
- **BEFORE** replacing any component, **ALWAYS** check for wire connectors that are not pressed tightly into their terminals. Tests **MUST** be made with **ALL** connectors attached. Look for broken or loose wires, failed terminals, or wires that are not pressed into their connectors far enough.

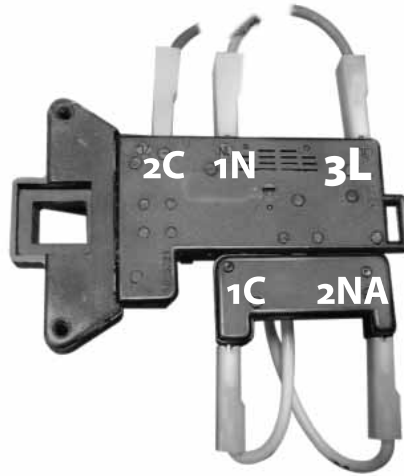
## Your Test Results

If the readings you obtain with the following tests match the specified range, the tested component is operating correctly.

If the readings you obtain are not in the specified range, call Splendide Service at 1-800-356-0766 (503-655-2563) ext. 5 for further assistance. **Have the Model and Serial Number of your machine ready when you call.**

# 1. Door Switch Testing

Door Switch Test Points are located on the Door Switch. (See "Component Locations").



## Before Performing Below Tests

Always place a jumper wire between pins 2C and 3L. If the unit works, the door switch needs to be replaced.

## If the unit doesn't work

To check the Door Switch for proper operation during a wash cycle, the door must be locked:

1. Begin with the machine OFF. Using the Program Selector, select any wash or dry cycle.
2. Next, press the ON/OFF button "in" to the ON position. You'll hear the door lock engage.
3. Now, unplug the washer-dryer from the wall outlet and check for continuity at the following points. **NOTE: Because the washer-dryer will automatically unlock, the reading must be taken within 1-minute after the washer-dryer is unplugged.**

Wash Cycle Operation	Test Points	Reading
Unlocked Door	2C to 3L	INFINITY (OL)
Locked Door	2C to 3L	0 ohms

To check the Door Switch for proper operation during a dry cycle:

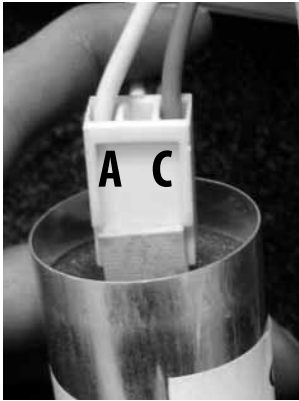
1. Remove the Door Switch (See "Accessing the Components").
2. Slide the plunger in to imitate the door is closed and check for continuity at the following points.

Dry Cycle Operation	Test Points	Reading
Unlocked Door	1C to 2NA	0 ohms

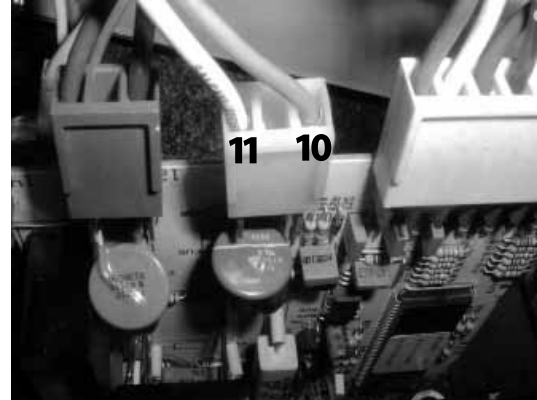
## 2. Power “in” from the Surge Protector Test

Surge Protector Test Points are located on both the Surge Protector and on Pins 10 & 11 on the Circuit Board (See “Component Locations” and “Connector Locations on the Module Board”)

Surge Protector



Pins 10 & 11 on Module Board

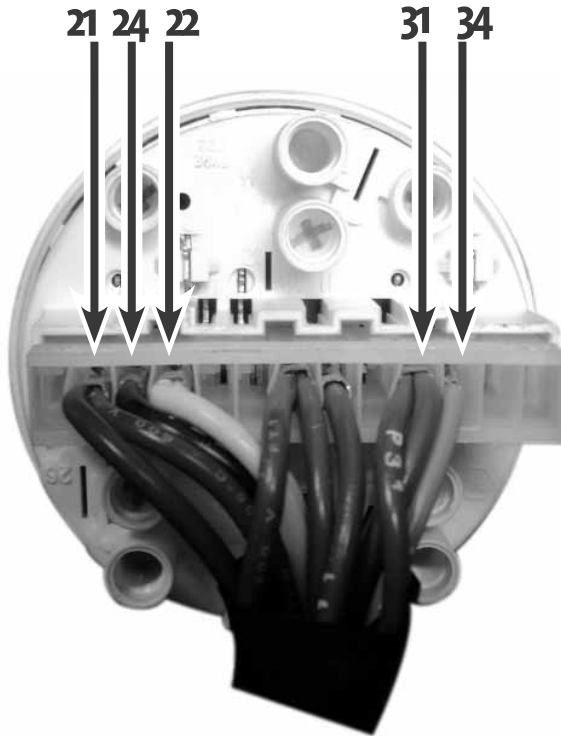


Fault Codes: N/A

	Test Points	Reading
Surge Protector to Module Board	A to Pin 11	1.0 ohms
Surge Protector to Module Board	C to Pin 10	0 ohms

### 3. Pressure Switch Test

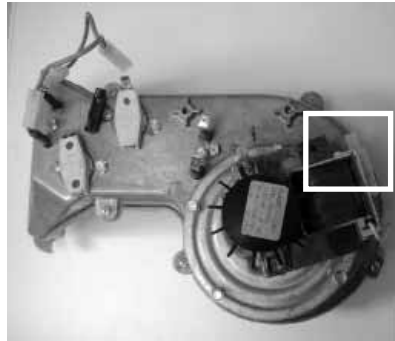
*Pressure Switch Test Points are located on the Pressure Switch (See "Component Locations")*



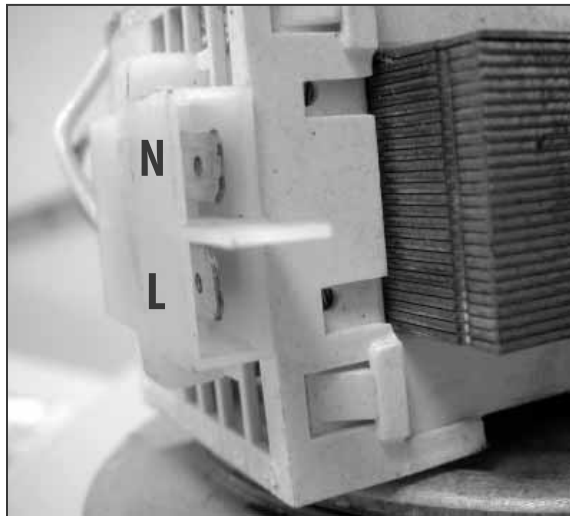
	Test Points	Reading
Water Level Empty	21 to 22	0 ohms
Water Level Full	21 to 24	0 ohms
Water Level Overfull	31 to 34	0 ohms

## 4. Fan Motor Test

*Fan Motor Test Points are located on the Fan Motor (See "Component Locations").*



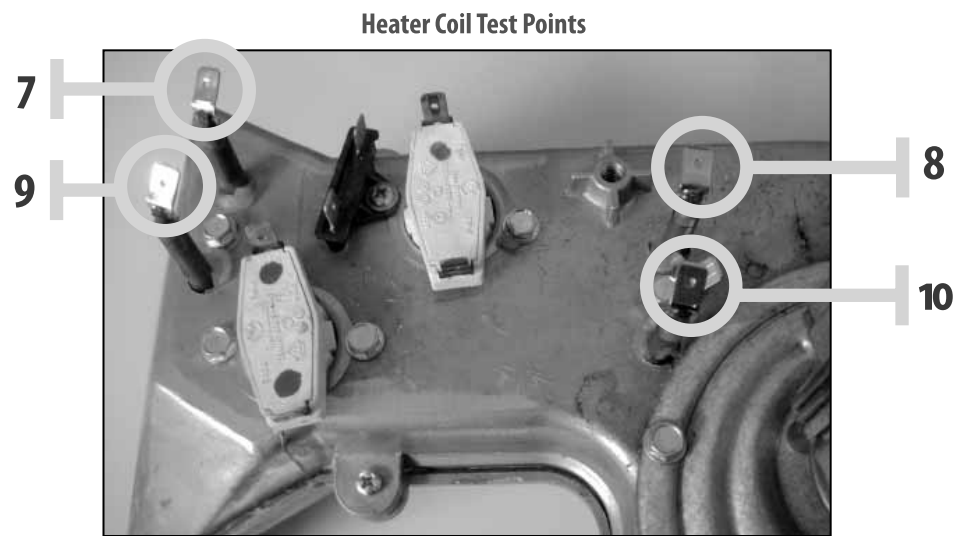
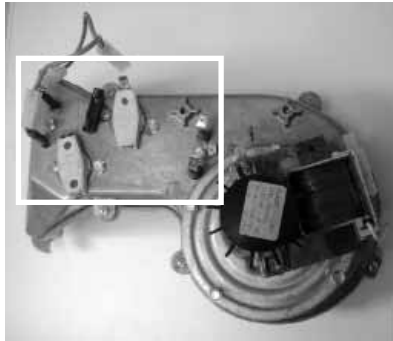
**Fan Motor Test Points**



Test Points	Reading
L to N	7.5 ohms
Voltage across L and N	120 VAC (With washer-dryer ON in Dry cycle)

## 5. Heater Coil Test

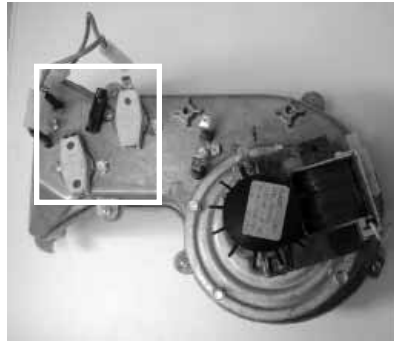
Heater Coil Test Points are located on the Heater Coil Housing (See "Component Locations").



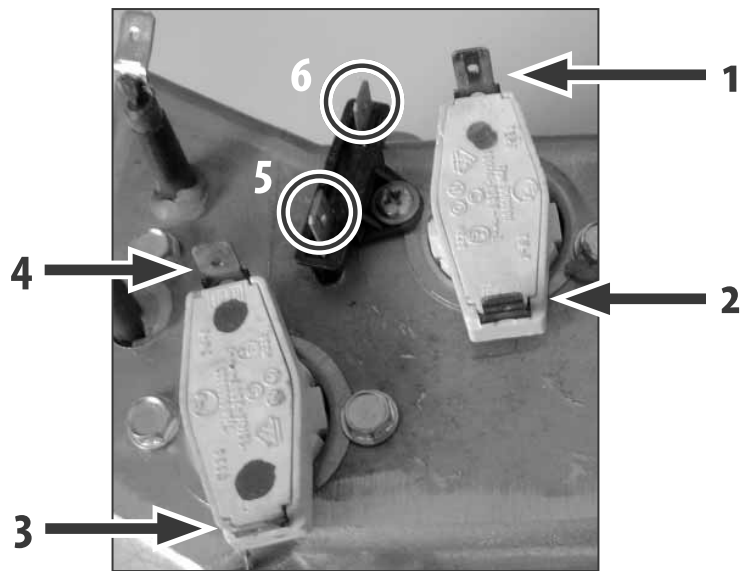
Test Points	Reading
7 to 8	20 ohms
9 to 10	20 ohms

## 6. Fuse Link and T-Stats Tests

*Fuse Link and T-Stat Test Points are located on the Heater Coil Housing (See "Component Locations").*



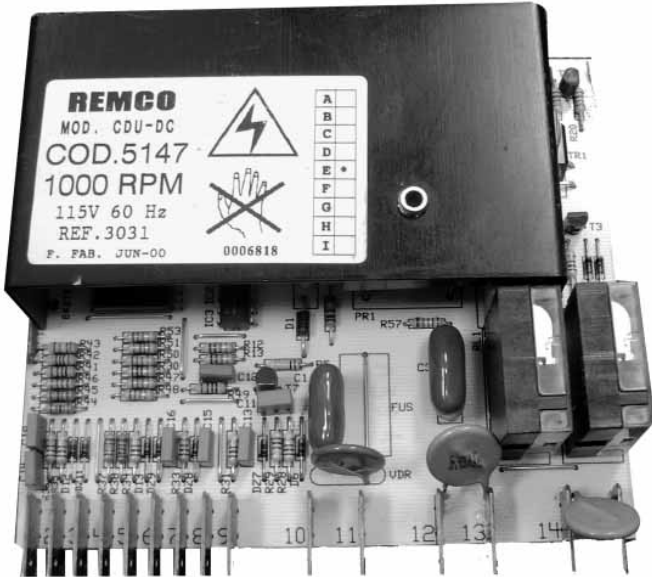
**Fuse Link and T-Stat Test Points**



Test Points	Description	Reading
1 to 2	88 Thermostat	0 ohms
3 to 4	110 Thermostat	0 ohms
5 to 6	Fuse Link	0 ohms

## 7. Module Board Test

Main Motor Test Points are located on the Main Motor (See "Component Locations")



Module Board

### Before performing these

**tests**, always check for voltage between pins 10 and 11 first. Also, verify that the wire number matches the pin number (wires will have white stencils with the corresponding pin # on them). With washer-dryer power OFF, select "10min" on Dry Time knob. Press ON/OFF button (in). Check for 120 VAC between Pins 10 and 11. If there is voltage, go to Step 2. If not, call Westland Sales.

**2)** Unplug washer-dryer from wall outlet. Detach connector from Pins 10 and 11. With connector still detached, plug washer-dryer back into wall outlet.

**3)** Select "10min" on Dry Time knob. Press ON/OFF button (in). Now, verify proper resistance between certain pins by using the chart below. If your resistance readings fall within the specified range, the Module Board is suspect. If your readings do not fall within the specified range, contact

**Westland Sales:  
1-800-356-0766**

**When testing is complete,** unplug washer-dryer. Reattach connector to Pins 10 and 11. With connector reattached, plug washer-dryer back into wall outlet.

Pin	Function	Resistance
7 to 1	Agitate/Tumble Direction	Alternates between <5 ohms, >1000 ohms
7 to 2	High Spin	>1000 ohms
7 to 3	Medium Spin	>1000 ohms
7 to 4	Low Spin	>1000 ohms
5	Reserved	-
7 to 6	Agitate/Tumble Direction	Alternates between <5 ohms, >1000 ohms
7	Common	Ohmmeter reference connection
8 to 9	Motor - Tachometer	177 ohms +/- 20%
10 to 11	115 VAC Input - Neutral	>10,000 ohms
12 to 13	Motor - Rotor	3.0 ohms +/- 20%
14 to 15	Motor - Stator	1.2 ohms +/- 20%



## 8. Main Motor Test

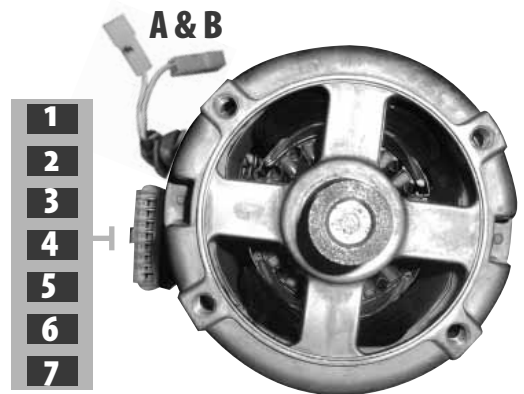
Main Motor Test Points are located on the Main Motor (See "Component Locations"). The Main Motor has either a 7-pin or 10-Pin design. Identify which Main Motor your washer-dryer has then perform the appropriate tests.

### Washer-Dryer Serial No.

#### 9616xxxx to 9804xxxx

First, pull on wires A & B to verify they're not broken,

1. Butt splice any broken wires and secure them to the plug to prevent a future break.
2. Next, connect AC line cord to pins 5 & 3.
3. Jumper pins 4 & 2 for Normal (or pins 1 & 4 for High Speed).



7-Pin Connector	Test Points	Reading
Motor Protector	A to B	0 ohms
Stator Tap	1 to 3	0.6 ohms
Stator	2 to 3	1.2 ohms
Rotor	4 to 5	3.0 ohms
Tachometer	6 to 7	177 ohms

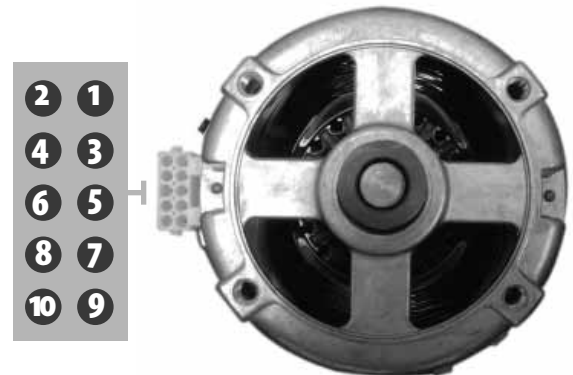
### Washer-Dryer Serial No.

#### 9805xxxx and after

To test run the Main Motor

1. Connect the AC line cord to Pins 3 and 5.
2. Jumper Pin 4 to 6 (for Normal speed) or jumper pin 4 to 9 (for High speed).

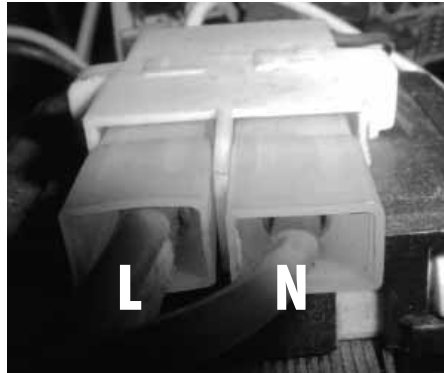
**NOTE: Do not run at High speed for more than 30 sec.**



10-Pin Connector	Test Points	Reading
Tachometer	1 to 2	177 ohms
Rotor	3 to 4	3.0 ohms
Stator	5 to 6	1.2 ohms
Motor Protector	7 to 8	0 ohms
Stator Tap	5 to 9	0.6 ohms

## 9. Drain Pump Test

*Drain Pump Test Points are located on the Water Pump (See "Component Locations").*



### To test the Drain Pump

Turn washer-dryer on Spin and check for voltage to ground on Pins L and N.

*If there's*

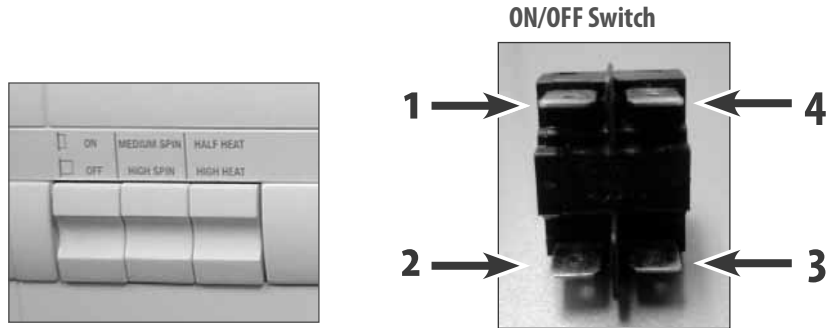
- voltage to Pin L but not to Pin N
- AND the pump is not obstructed

then, the pump needs to be replaced.

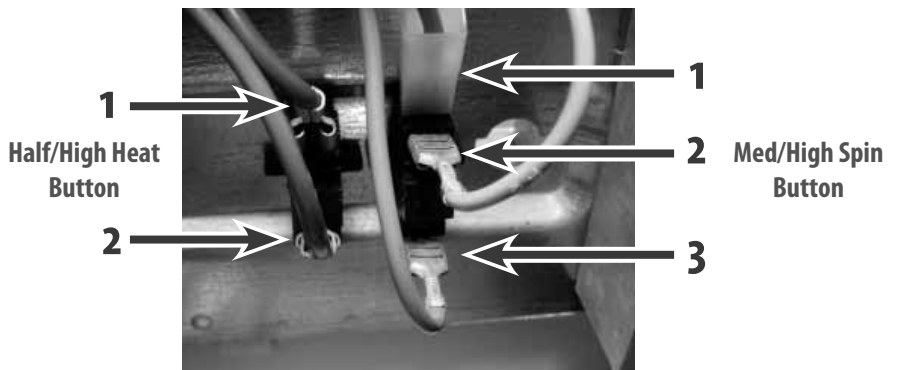
	Test Points	Reading
Drain Pump	L to N	4.5 ohms

## 10. Push Buttons, Wash Temp, Dry Time Selector Tests

ON/OFF Button and Push Button Test Points are located behind the corresponding button(s). Wash/Rinse Temp. Selector Test Points are located on the Wash Rinse Selector (See "Component Locations").



ON/OFF Button	Test Points	Reading
ON/OFF Switch (Out)	1 to 2	INFINITY (OL)
ON/OFF Switch (Out)	3 to 4	INFINITY (OL)
ON/OFF Switch (In)	1 to 2	0.0 ohms
ON/OFF Switch (In)	3 to 4	0.0 ohms



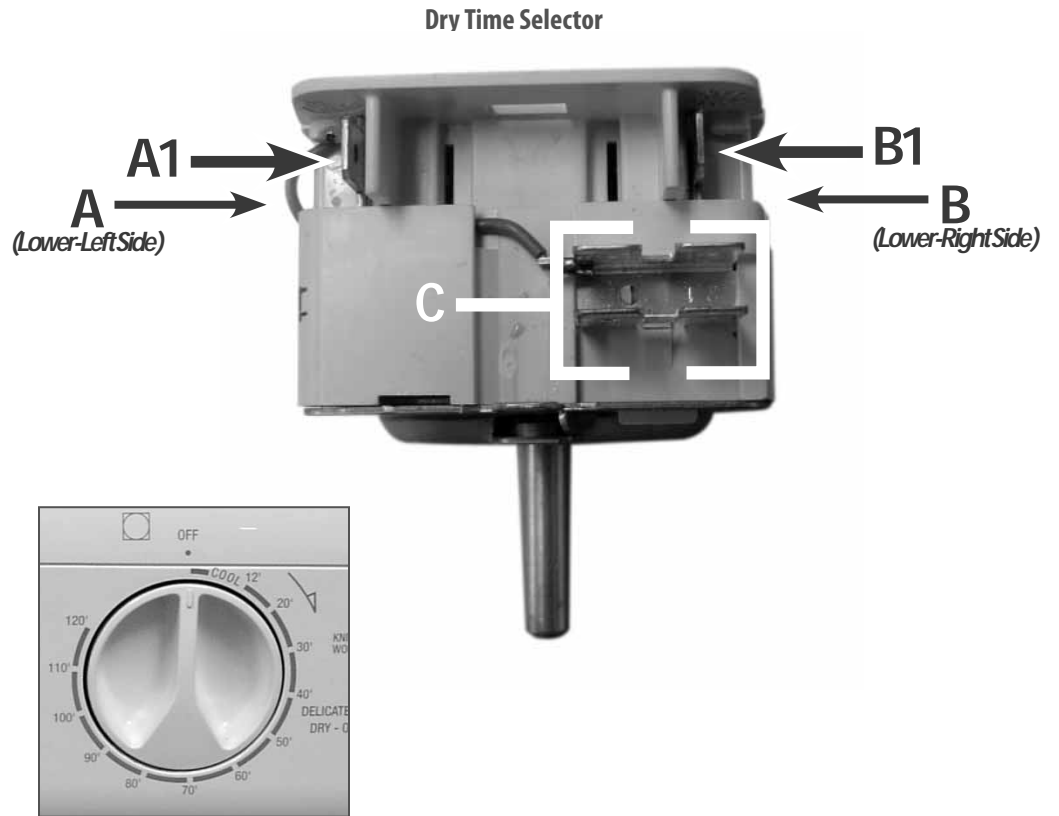
Option Buttons	Test Points	Reading
Med/High Spin (In)	2 to 3	0 ohms
Med/High Spin (Out)	1 to 3	0 ohms
High/Low Heat (In)	1 to 2	INFINITY (OL)
High/Low Heat (Out)	1 to 2	0 ohms

### Wash/Rinse Temperature Selector



Wash/Rinse Temp Selector	Test Points	Reading
Hot/Warm	1 to 1a	0.2 ohms
	2 to 2a	0.2 ohms
	3 to 3a	INFINITY (OL)
Hot/Cold	1 to 1a	INFINITY (OL)
	2 to 2a	0.2 ohms
	3 to 3a	INFINITY (OL)
Warm/Warm	1 to 1a	0.2 ohms
	2 to 2a	0.2 ohms
	3 to 3a	0.2 ohms
Warm/Cold	1 to 1a	INFINITY (OL)
	2 to 2a	0.2 ohms
	3 to 3a	0.2 ohms
Cold/Cold	1 to 1a	INFINITY (OL)
	2 to 2a	INFINITY (OL)
	3 to 3a	0.2 ohms

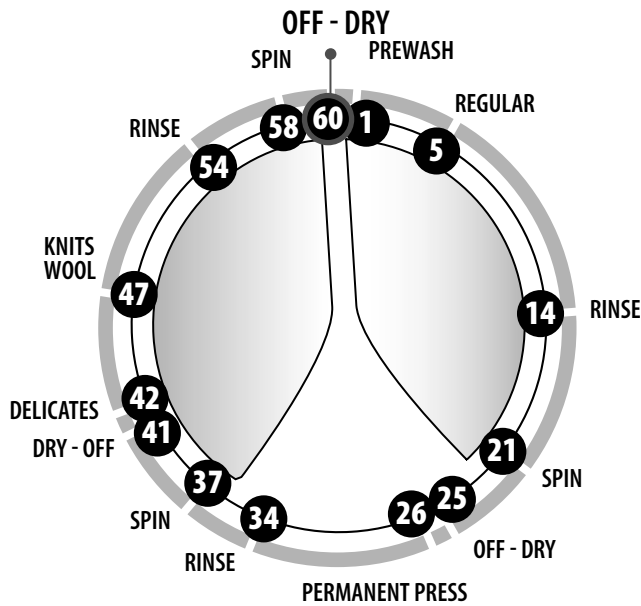
*(Continued on the next page)*



Dry Time Selector	Test Points	Reading
1-12 min.	A to A1 B to B1 C to A1	0.2 ohms INFINITY (OL) 2.1 K
13-120 min.	A to A1 B to B1 C to A1	0.2 ohms 0.2 ohms 2.1 K

# 11. Wash Timer

The Wash Timer Test Points are located on Wash Timer (See Component Locations”). The following is an explanation of how to use the two Step Charts found in this section.



## Reading the Step Chart

The Step Chart on the following pages, provide all the information you need to verify if the Wash Timer is working correctly for a given function.

- The top rows list all of the **60 positions** on the Wash Cycle knob (See the Illustration on the Left).
- The first three columns list the **Row (A-F)** and **Number (1-12)** of Pins on the Wash Timer (Below).

## When and How to Perform Wash Timer Tests

For example, if the unit wasn't working in the High Spin cycle, but the Module Board and Main Motor tested correctly. You would then verify that the Wash Timer is working correctly.

Find out when the machine is going into a High Spin:

- Locate "High Spin" in the **Function** column (Pin B4 to Pin B5)
- Follow the "High Spin" Row to a **dot** (Position 24)

Then, to perform the above test, you would:

1. Turn the Wash Timer knob to position **24 ("Drain, High Spin")**
2. Use an ohm meter to verify that **Pin B4** has continuity to **Pin B5**.
3. If there is continuity, the Wash Timer is working correctly. If there is no continuity, the Wash Timer needs to be replaced.

