

# Amana Domestic Electric Dryer—Technical Information

## 240 V, 60 Hz Models

### SDE4606AYW

- Due to possibility of personal injury or property damage, always contact an authorized technician for servicing or repair of this unit.
- Refer to Service Manual 16023020 for detailed installation, operating, testing, troubleshooting, and disassembly instructions.



### CAUTION

All safety information must be followed as provided in this Technical Sheet and in Service Manual 16023020.



### WARNING

To avoid risk of electrical shock, personal injury, or death, disconnect power to dryer before servicing, unless testing requires it.

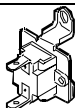

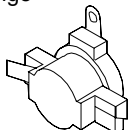
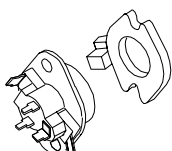
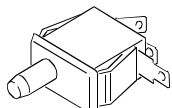

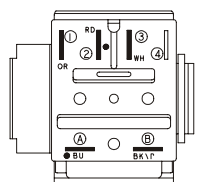












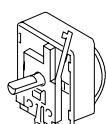
Models	SDE4606AY*	Models	SDE4606AY*
<b>Power Source</b>		<b>Temperature settings</b>	
Voltage AC	240 VAC	<b>Color coded control</b>	Variable Electromechanical Bi-directional
Amperage (Single Unit)	30 A	<b>Features</b>	
Frequency	60 Hz	Easy Access™ Opening	X
Motor horsepower	1/3	Reversible door	X
<b>Dimensions</b>		Upfront lint filter	X
<b>Cabinet</b>		Front serviceable	X
Height—overall	43 inches	FabriCare™ system	X
Height of cabinet	36 inches	Adjustable signal	Chime
Width	27 inches	Drum light	X
Depth	28 inches	Extended tumble cycle	Rocker
Clearance—dryer door	23 ½ inches	Moisture sensor	X
<b>Weight</b>		Drying rack	
Crated	145 lbs.	Drum—Stainless steel	

## Component Testing Information



## WARNING

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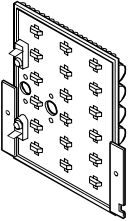
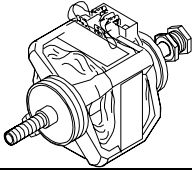

Illustration	Component	Test Procedure	Results																									
	Thermal fuse	Measure resistance of thermal fuse from terminal to terminal.  Open at 360° ± 12° F (182° ± 7° C).... Auto reset –31° F (–35° C)	If thermal fuse is open, both <u>thermal fuse</u> and <u>thermostat limit must be replaced</u> . Continuity < 1 Ω																									
Pink / White 	Thermostat cycling  S.P.D.T. – 3 terminals	Measure resistance of the following terminals:  Terminals 1 – 3..... Heat thermostat with a small flame until a distinct click is heard. Terminals 1 – 2.....	Open at 153° ± 5° F Close at 138° ± 5° F Continuity < 1 Ω  Continuity < 1 Ω																									
Orange 	Thermostat limit  S.P.D.T. – 3 terminals	Measure resistance of the following terminals:  Terminals 1 – 3..... Heat thermostat with a small flame until a distinct click is heard. Terminals 1 – 2.....	Open at 225° ± 7° F Close at 185° ± 9° F Continuity < 1 Ω  Continuity < 1 Ω																									
	Thermostat heater	Disconnect wire terminals and measure resistance of terminals.  Terminal to terminal.....	     2400 ± 240 Ω																									
	Door switch  1 – COM 2 – N.C. 3 – N.O.	Measure resistance of the switch: Door closed Terminals 1 – 3..... Door opened Terminals 1 – 2.....	Continuity < 1 Ω  Continuity < 1 Ω																									
	Rocker switch (Extended Tumble)	Measure resistance of switch positions: ON (Closed position) ..... OFF (Open position) .....	Continuity < 1 Ω Infinite > 1 MΩ																									
	Temperature switch 4 position	Disconnect wires from component. Measure resistance of the switch in the following positions: <table border="1"><thead><tr><th>POS</th><th>INSERT</th><th>ANGLE</th><th>CONNECTION</th><th>FUNCTION</th></tr></thead><tbody><tr><td>1</td><td></td><td>0°</td><td>BU-RD</td><td>REGULAR</td></tr><tr><td>2</td><td></td><td>45°</td><td>BU-RD, BK/PU-WH</td><td>MEDIUM</td></tr><tr><td>3</td><td></td><td>90°</td><td>BU-RD, BK/PU-WH</td><td>DELICATE</td></tr><tr><td>4</td><td></td><td>135°</td><td>BU-OR</td><td>AIR FLUFF</td></tr></tbody></table>	POS	INSERT	ANGLE	CONNECTION	FUNCTION	1		0°	BU-RD	REGULAR	2		45°	BU-RD, BK/PU-WH	MEDIUM	3		90°	BU-RD, BK/PU-WH	DELICATE	4		135°	BU-OR	AIR FLUFF	Infinite > 1 MΩ Continuity < 1 Ω Continuity < 1 Ω Continuity < 1 Ω Continuity < 1 Ω
POS	INSERT	ANGLE	CONNECTION	FUNCTION																								
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4		135°	BU-OR	AIR FLUFF																								
	Timer	Verify input and output voltage is present.	Refer to specific model Technical Sheet for timing sequence chart and functional description of the component.																									

# Component Testing Information



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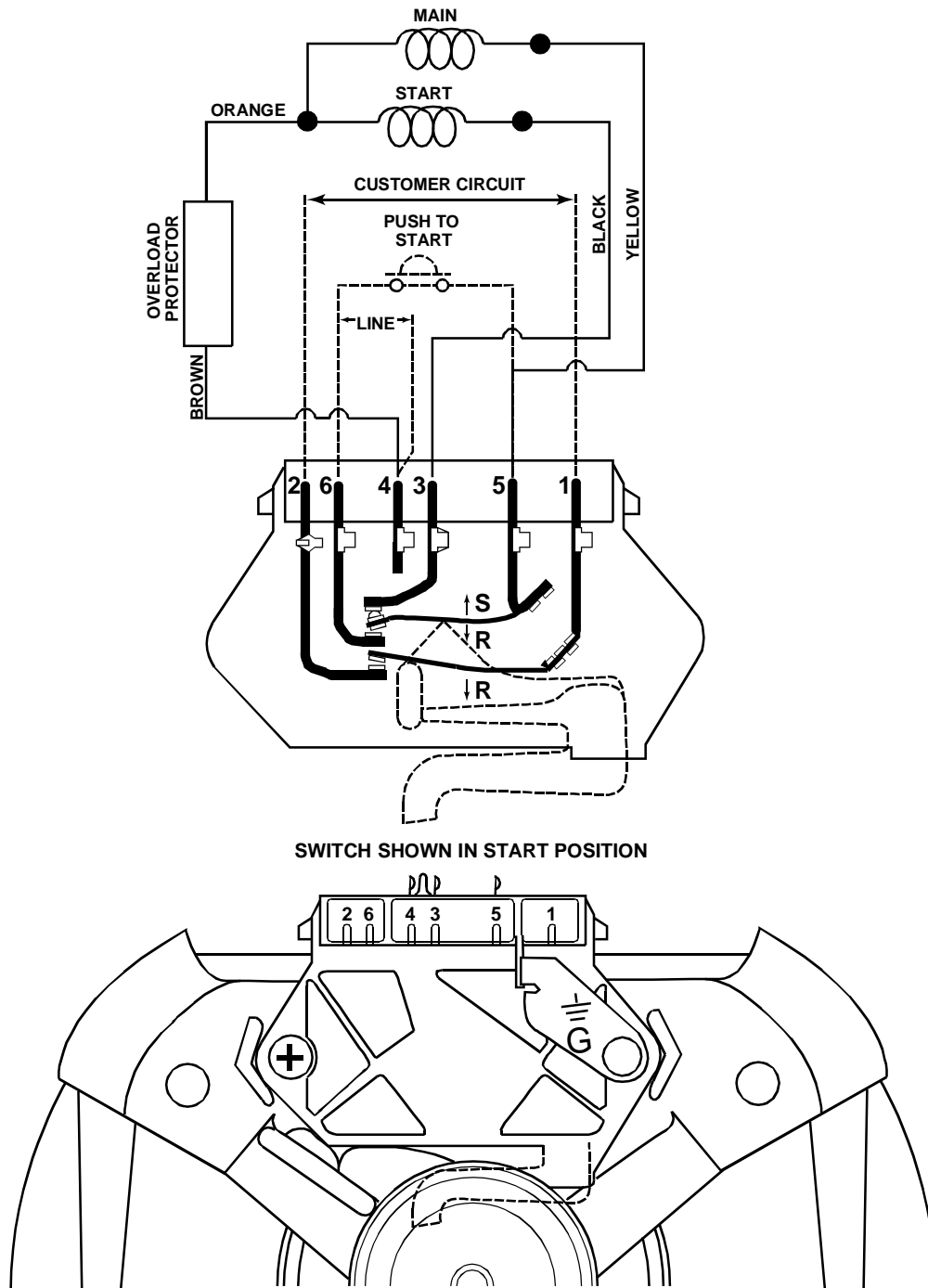
Illustration	Component	Test Procedure	Results
	Heating element	Measure resistance of element from terminal to terminal.	10.01 – 9.43 $\Omega$
	Motor	See “Internal Motor Diagram and Schematic” section.	<b>See following section “Internal Motor Diagram and Schematic” for correct wiring contacts.</b>
	Belt	Verify belt is not damaged or slipping.	Wipe excess oil from cylinder, motor pulley, and belt, to prevent slippage. Replace belt if damaged.
	Cylinder seal	Verify air leakage is not present around cylinder seal.	Replace seal, if indication of leakage.
	Cylinder glide	Verify glides are not damaged.	Replace all glides when replacing any glides.
	Sensor	Remove wires from sensor terminals  Terminal to terminal .....	Any indication other than 0 $\Omega$ , replace sensor.  0 $\Omega$

# Internal Motor Diagram and Schematic



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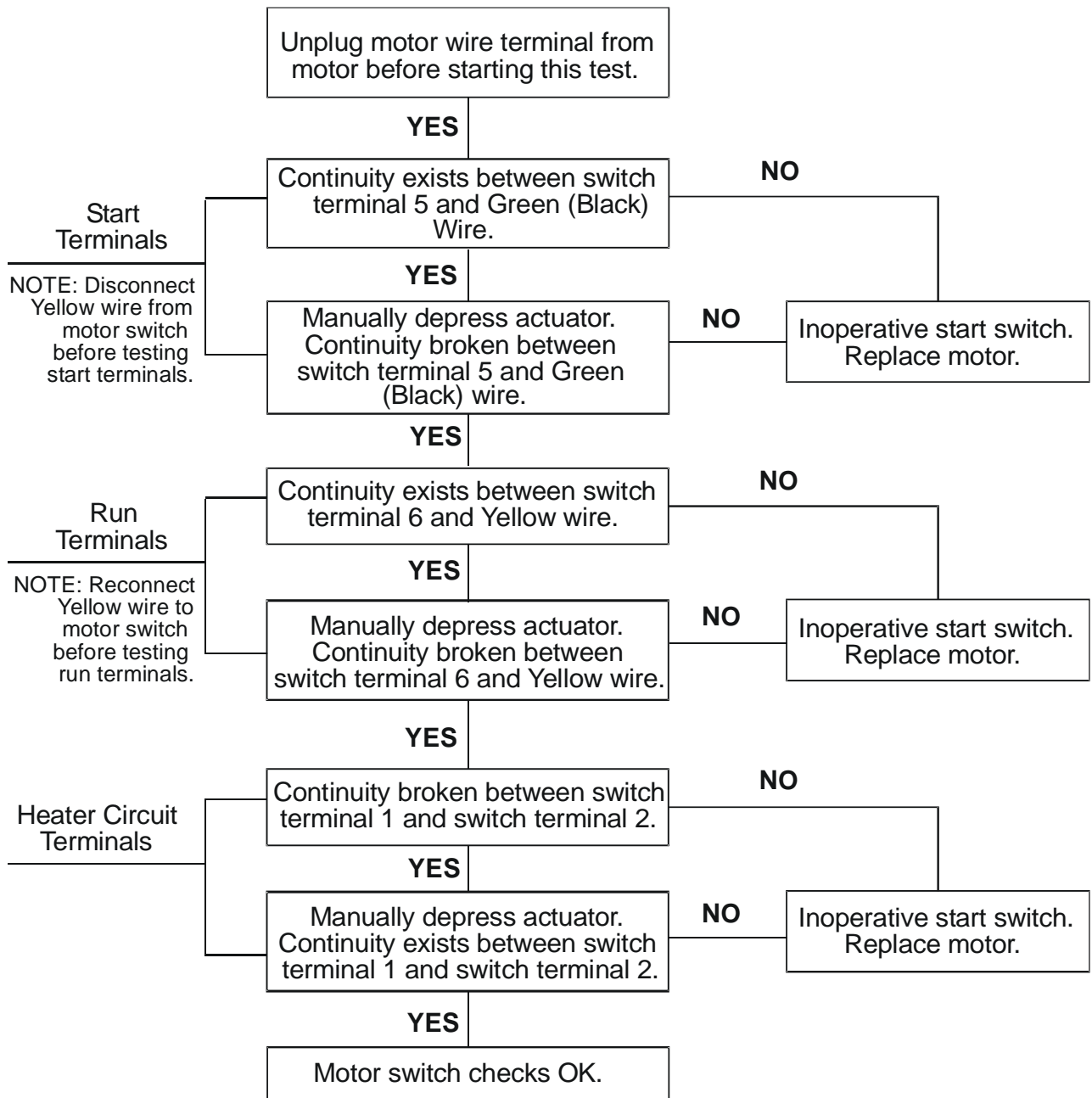


# Motor Trouble Shooting



## WARNING

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# Wiring Diagram and Schematic

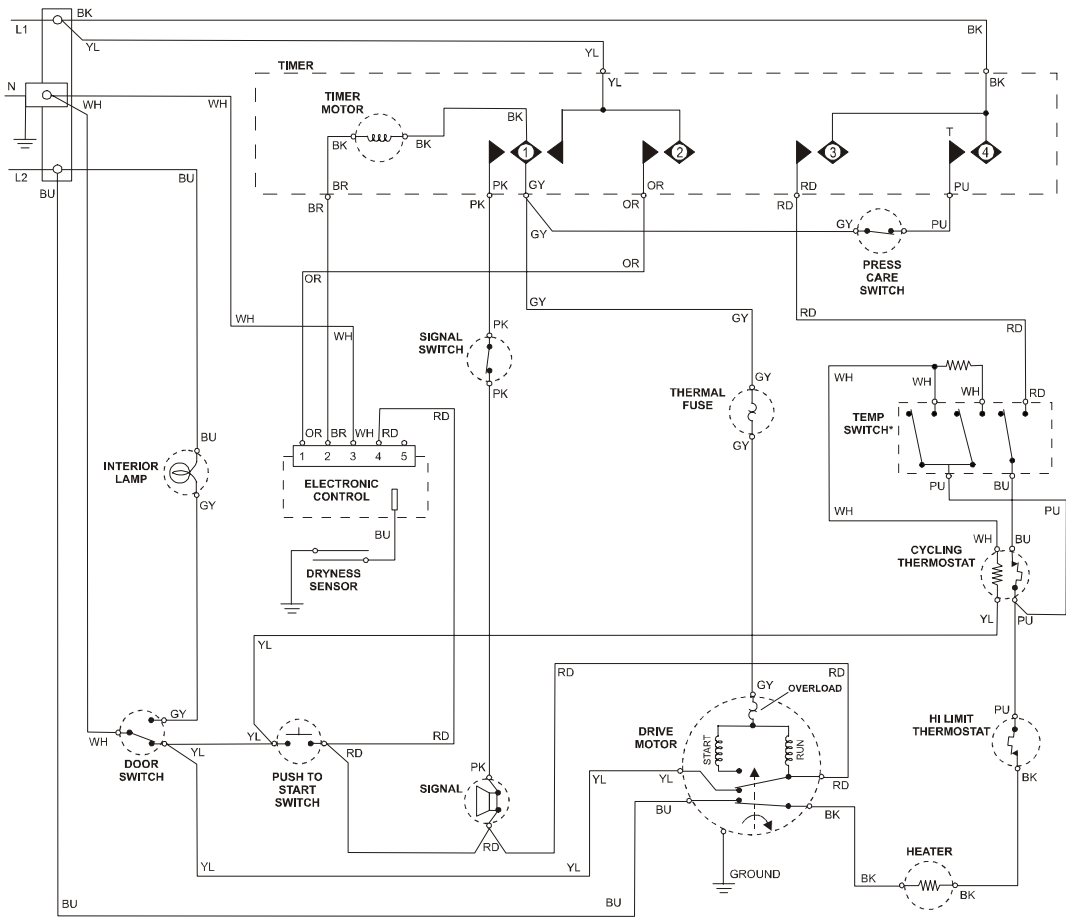


## WARNING

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Series 11  
SDE4606AY\*

CIRCUIT	FUNCTION	60	120	180	240	300
①	GY-PK SIGNAL					
	GY-YL DRIVE MOTOR					
②	YL-OR ELEC. CONTROL					
③	BK-RD HEATER					
④	BK-PU PRESS CARE					
□ CONTACTS OPEN		OFF	REGULAR FABRICS	OFF	TIME DRY	OFF
■ CONTACTS CLOSED						
					PERMANENT PRESS	PRESS CARE



**NOTE:** Power cord provided on select models only.

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*TEMP SWITCH DETAILS	
REGULAR	BU - RD
MEDIUM	BU - RD, PU - WH with Resistor
DELICATE	BU - RD, PU - WH
AIR FLUFF	No Contacts Made

**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

## Wiring Diagram and Schematic

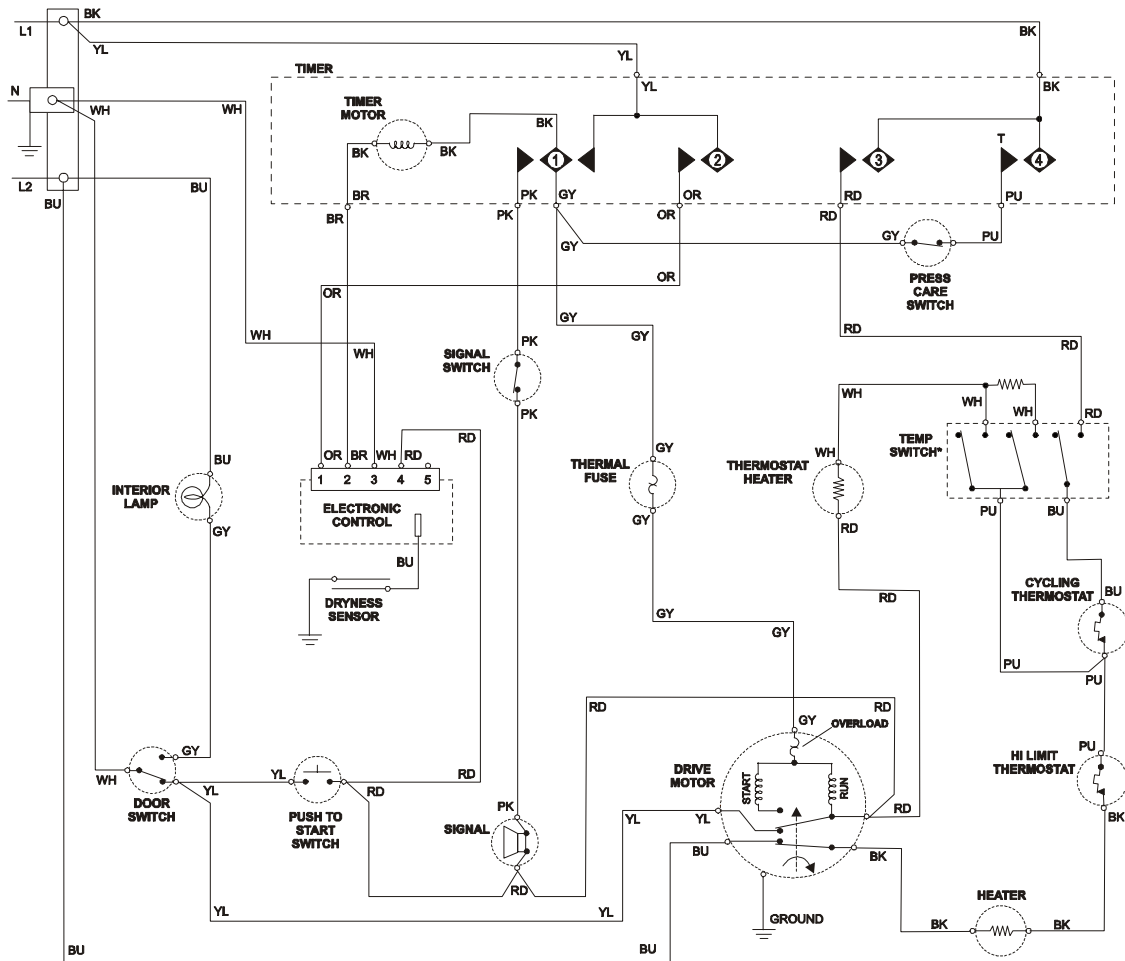


## WARNING

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Series 12  
SDE4606AY\*

	CIRCUIT	FUNCTION	60		120		180		240		300			
①	GY-PK	SIGNAL												
	GY-YL	DRIVE MOTOR												
②	YL-OR	ELEC. CONTROL												
③	BK-RD	HEATER												
④	BK-PU	PRESS CARE												
<div><div>□ CONTACTS OPEN</div><div>■ CONTACTS CLOSED</div></div>			OFF	REGULAR FABRICS		OFF	TIME DRY		OFF	PERMANENT PRESS		PRESS CARE		



**NOTE:** Power cord provided on select models only.

<b>*TEMP SWITCH DETAILS</b>	
<b>REGULAR</b>	<b>BU - RD</b>
<b>MEDIUM</b>	<b>BU - RD, PU - WH with Resistor</b>
<b>DELICATE</b>	<b>BU - RD, PU - WH</b>
<b>AIR FLUFF</b>	<b>No Contacts Made</b>

Resistor may be Internal or external to the switch

**CAUTION:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

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