

## **⚠ CAUTION**

### **THIS MACHINE MUST BE ELECTRICALLY GROUNDED**

SEE INSTALLATION INSTRUCTIONS FOR  
COMPLETE GROUNDING INSTRUCTIONS.

#### **IMPORTANT SAFETY NOTICE**

THIS INFORMATION IS INTENDED FOR USE BY INDIVIDUALS POSSESSING ADEQUATE BACK-GROUNDS OR ELECTRICAL, ELECTRONIC AND MECHANICAL EXPERIENCE. ANY ATTEMPT TO REPAIR A MAJOR APPLIANCE MAY RESULT IN PERSONAL INJURY AND PROPERTY DAMAGE. THE MANUFACTURER OR SELLER CANNOT BE RESPONSIBLE FOR THE INTERPRETATION OF THIS INFORMATION, NOR CAN IT ASSUME ANY LIABILITY IN CONNECTION WITH ITS USE.

#### **IMPORTANT - RECONNECT ALL GROUNDING DEVICES**

ALL PARTS OF THIS APPLIANCE CAPABLE OF CONDUCTING ELECTRICAL CURRENT ARE GROUNDED. IF GROUNDING WIRES, SCREWS, STRAPS, NUTS OR WASHERS USED TO COMPLETE A PATH TO GROUND ARE REMOVED FOR SERVICE, THEY MUST BE RETURNED TO THEIR ORIGINAL POSITION AND PROPERLY FASTENED.

#### **OPERATION**

On electric model dryers, air is drawn into the heater housing and across the open coils of the electric heater. On gas model dryers, air is drawn into the combustion chamber and over the burner flame. It is then drawn through the tumbling clothes, picking up moisture and lint. Lint is filtered out as the air passes from the drum into the blower where it is discharged out the vent. The air temperature is controlled by the biased thermostat according to the setting of the fabric selector switch. The length of the drying cycle is controlled by the number of minutes selected on the timer, or automatically controlled by the timer, in conjunction with the thermostat, for the type of fabric selected (automatic dry cycle).

To operate the dryer, first check the lint screen and be certain that the screen is completely free of all lint. Place clothes in dryer and close door. (Dryer will not operate unless door is closed.)

1. Select drying time, or automatic drying cycle, by turning timer knob to the right.
2. Set drying temperature using timer for type of fabric being dried.
3. To start the dryer, turn the start knob to the right and hold for 2 seconds.

#### **DRUM SPEED**

48-54 RPM in a clockwise direction as viewed from the front.

#### **CONTROL THERMOSTAT**

The control thermostat regulates the temperature inside the dryer drum. It is a single pole, single throw switch with an internal biasing heater wired in series with the hi-limit thermostat and heat source and located in the front of the blower housing.

To check the thermostat, remove the front panel. To check:

##### **Continuity**

Remove harness wires from the thermostat. Determine the interior wiring by referring to the wiring diagram. Use an ohm meter to check continuity.

##### **Function**

1. Remove exhaust venting from rear of dryer. Place a thermocouple in lint screen opening.
2. Thermocouple shall be located one inch to the right of lint screen opening center line and extend three inches below the top opening.
3. Set timer for 30 minutes or long enough to permit cycling of the thermostat.
4. Allow thermostat to cycle 3 or 4 times with an empty drum.
5. Check temperature immediately after third or fourth cycle of thermostat. The temperatures (depending on temperature setting) should conform to those below.

#### **ELECTRIC DRYER**

<b>SETTING</b>	<b>TRIP TEMPERATURE</b>
REGULAR	138°-190°F
MEDIUM	134°-180°F
LOW	132°-175°F

#### **GAS DRYER**

<b>SETTING</b>	<b>TRIP TEMPERATURE</b>
REGULAR	134°-192°F
MEDIUM	124°-182°F
LOW	121°-177°F

**NOTE: LONG EXTENDED EXHAUST VENTS  
AFFECT DRUM TEMPERATURES**

#### **HI-LIMIT THERMOSTAT**

The hi-limit thermostat, a single pole, single throw switch wired in series with the control thermostat and heat source, is mounted toward the top of the heater housing.

Should the control thermostat fail or an air blockage occur dramatically raising the temperature in the heater housing, the hi-limit thermostat opens the circuit to the heat source.

To check for stuck contacts in the thermostat, set the timer on the regular heat cycle, start the dryer and run with **the exhaust duct completely blocked**. The thermostat MUST open within three minutes. To check for an open thermostat, remove the top panel. Disconnect the harness wires from the thermostat terminals. Use an ohm meter to check continuity.

#### **THERMAL THERMOSTAT (Electric models only)**

The safety thermostat is wired in series with the motor. The purpose of the safety thermostat is to shut down the dryer if the control thermostat and hi-limit thermostat fail to open. Once the safety thermostat has opened, it must be replaced. The condition that caused it to open must be corrected.

#### **HEATING ELEMENT (Electric models only)**

The heater assembly (208/240 volts) is located behind the drum. Perforations in the drum back allow heated air to be drawn into the drum.

The heating element, an open coil type heater made from a continuous coil of resistance wire, is attached to a metal support plate with ceramic standoffs.

##### **To Test Heating Element:**

1. Remove drum.
2. Remove harness wires from heating element terminals.
3. Connect ohm meter across heating element terminals.
4. Check each terminal to ground.
5. If open or grounded, replace heating element.

##### **To Replace Heating Element:**

1. Remove drum.
2. Remove harness wires from heating element terminals and hi-limit thermostat.
3. Remove screws securing heating element assembly to cabinet and remove assembly.
4. Reverse procedure to install new heating element assembly.

#### **IGNITOR (Gas Models Only)**

The ignitor is a silicon carbide thermistor. When it attains approximately 1800°F, the flame sensor switch (mounted on the side of the burner tube) detects this high radiant heat and opens its contacts. This energizes the secondary solenoid valve coil, allowing gas to flow through the gas valve orifice and impinge upon the hot glowing ignitor. The total sequence occurs within 15 to 90 seconds.

The ignitor is mounted to the burner at an angle with the silicon carbide stem extended into the flame area.

The stem is very fragile and susceptible to contamination from skin oils. **HANDLE WITH CARE** by using the ignitor's insulated support.

##### **To Test Ignitor:**

1. Remove front panel assembly.
2. Disconnect plug connector from ignitor-to-coil harness.
3. Connect ohm meter across terminals. Depending on room temperature, the resistance value should be approximately 50-400 ohms.

##### **To Replace Ignitor:**

1. Remove front panel assembly.
2. Remove burner assembly.
3. Remove the screw and washer securing the ignitor to its mounting bracket and remove the ignitor. NOTE: Some models have a spring clip securing the ignitor.
4. Reverse procedure to install new ignitor.

#### **DOOR SWITCH**

Whenever the door is opened, the door switch will open the circuit to the motor and the internal switch in the motor will open the circuit to the heat source.

#### **MOTOR**

The drive motor is a single speed, dual shaft, ¼ hp, 1725 rpm motor with automatic reset overload protector.

##### **To Test Motor:**

1. Remove drum.
2. Remove harness connector from motor.
3. Operate motor by connecting a properly fused service cord to terminals 4 & 5. The motor should start and run.
4. If motor runs, problem is open circuits in the electrical or control system. If motor does not run, check the centrifugal switch.
5. When motor runs and problem is NO HEAT, check continuity between terminals 1 & 2 with centrifugal switch out (run position). No continuity shows switch is inoperative. Replace switch.

#### **DRIVE BELT**

##### **To Remove Or Replace Belt:**

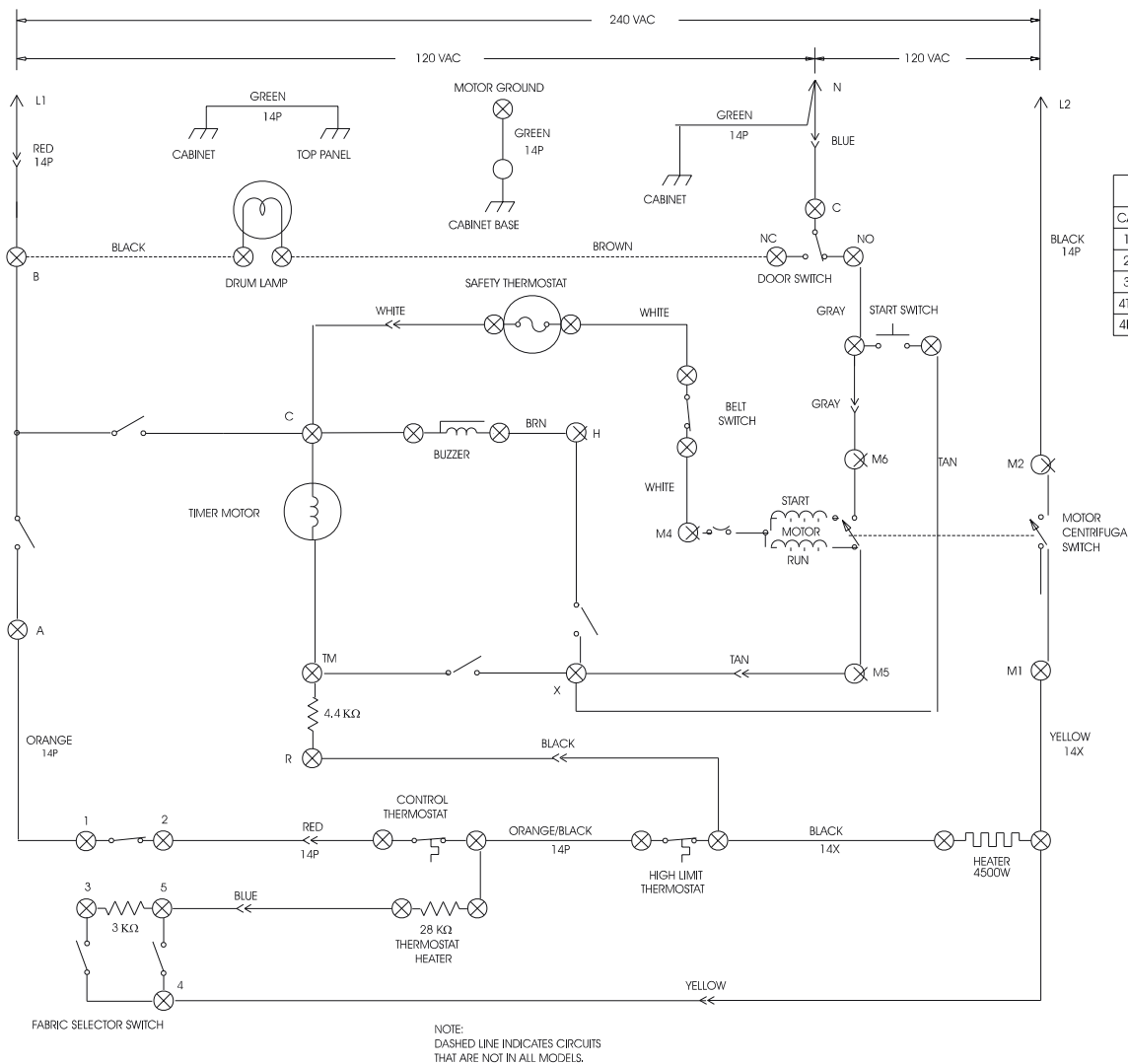
1. Remove front panel assembly.
2. Disconnect belt from idler pulley and motor pulley.
3. Remove belt from dryer drum.
4. Reverse procedure to install new belt.

#### **BELT SWITCH**

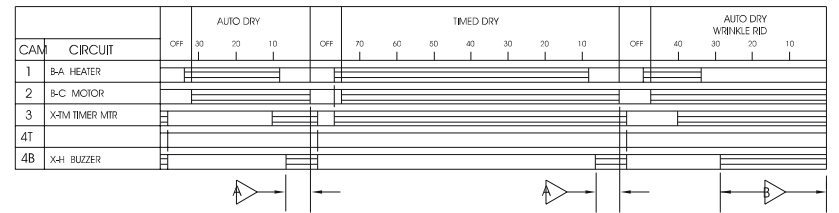
The belt switch is positioned on the motor bracket adjacent to the idler arm. If the drive belt breaks or jumps off the idler pulley, the idler will contact the belt switch which shuts off the motor. The belt will need to be replaced or adjusted before the dryer will function correctly.

CAUTION: DISCONNECT ELECTRIC CURRENT BEFORE SERVICING.

# ELECTRIC DRYER



NOTES:  
 1. ALL WIRING MUST CONFORM TO LOCAL ELECTRICAL CODES.  
 2. CONNECT DRYER TO A 30 AMP INDIVIDUAL BRANCH CIRCUIT.  
 3. TIMER SHOWN IN OFF POSITION, DOOR SWITCH CLOSED, MOTOR AT REST, THERMOSTAT CLOSED AND FABRIC SELECTOR SWITCH AT REGULAR.



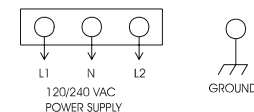
BAR CHART ABOVE REPRESENTS ONE COMPLETE REVOLUTION OF TIMER SHAFT.

SHADED PORTION OF BAR CHART INDICATES THE PROPORTIONAL TIMES THAT INTERNAL TIMER CONTACTS ARE CLOSED.

A PULSAR CAM, LOCATED NEXT TO THE BUZZER CAM AND ROTATING AT 12 REVOLUTIONS PER HOUR, ALLOWS CIRCUITS "X-H" TO CLOSE FOR 5 SECONDS (±3 SECONDS).

A OR 2 TIMES IN THIS AREA

B 5 TO 6 TIMES IN THIS AREA



WIRING CODES	
⊗	QUICK DISCONNECT TERMINAL
+	CONNECTION
+	NO CONNECTION
⊗	MOTOR SWITCH
⊗	SPLICE
⊗	MOTOR PROTECTOR
⊗	CHASSIS (CABINET) GROUND
⊗	SCREW TERMINAL
⊗	HARNES CONNECTOR TERMINAL
⊗	INSULATED TERMINAL

FABRIC SELECTOR SWITCH	CIRCUIT		
	1-2	4-3	4-5
REGULAR	X		
MEDIUM	X	X	
LOW	X		X
AIR FLUFF			

X=CONTACTS CLOSED

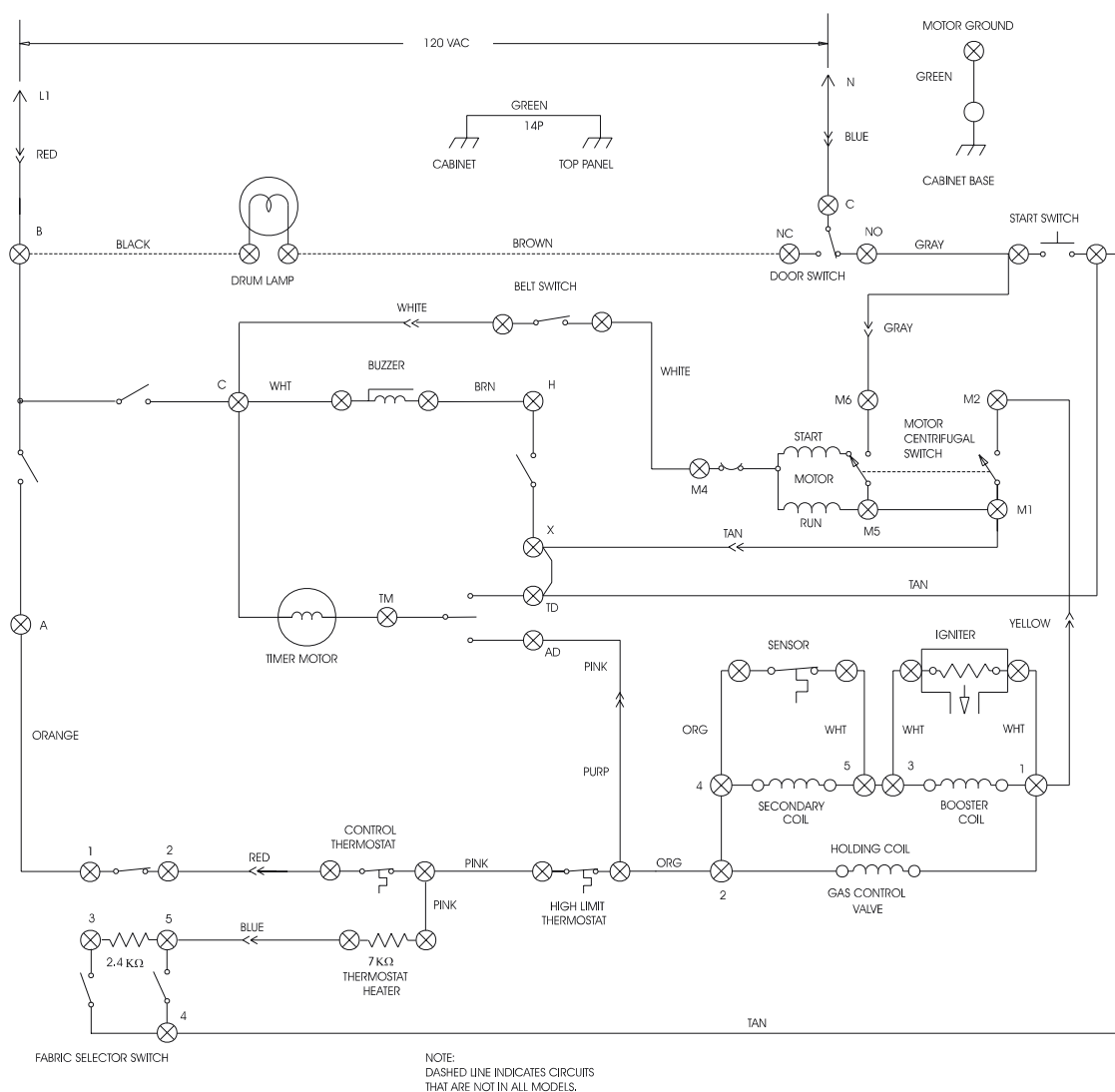
WIRE SPECIFICATIONS		
CODE	WIRE GAUGE A.W.G.	INSULATION MATERIAL
18P	18	105°C PVC (POLYVINYLCHLORIDE)
14P	14	
14X	14	125°C X-LINK

NOTE: ALL UNSPECIFIED WIRE CODES ARE 18P.

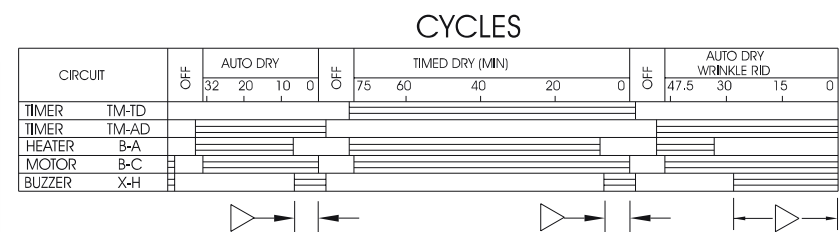
WIRING DIAGRAM 131900900 A

CAUTION: DISCONNECT ELECTRIC CURRENT BEFORE SERVICING.  
 LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS.  
 WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION.  
 VERIFY PROPER OPERATION AFTER SERVICING.

# GAS DRYER



NOTES:  
 1. ALL WIRING MUST CONFORM TO LOCAL ELECTRICAL CODES.  
 2. CONNECT DRYER TO A 15 AMP INDIVIDUAL BRANCH CIRCUIT.  
 3. TIMER SHOWN IN OFF POSITION, DOOR SWITCH CLOSED, MOTOR AT REST, THERMOSTAT CLOSED AND FABRIC SELECTOR SWITCH AT REGULAR.



BAR CHART ABOVE REPRESENTS ONE COMPLETE REVOLUTION OF TIMER SHAFT.

SHADED PORTION OF BAR CHART INDICATES THE PROPORTIONAL TIMES THAT INTERNAL TIMER CONTACTS ARE CLOSED.

A PULSAR CAM, LOCATED NEXT TO THE BUZZER CAM AND ROTATING AT 12 REVOLUTIONS PER HOUR, ALLOWS CIRCUITS "X-H" TO CLOSE FOR 5 SECONDS (±3 SECONDS).

A OR 2 TIMES IN THIS AREA

B 5 TO 6 TIMES IN THIS AREA

FABRIC SELECTOR SWITCH	CIRCUIT		
	1-2	4-3	4-5
REGULAR	X		
MEDIUM	X	X	
LOW	X		X
AIR FLUFF			

X=CONTACTS CLOSED

WIRE SPECIFICATIONS		
CODE	WIRE GAUGE A.W.G.	INSULATION MATERIAL
18P	18	105°C PVC (POLYVINYLCHLORIDE)
14P	14	
14X	14	125°C X-LINK

NOTE: ALL UNSPECIFIED WIRE CODES ARE 18P.

WIRING DIAGRAM 131900900 A