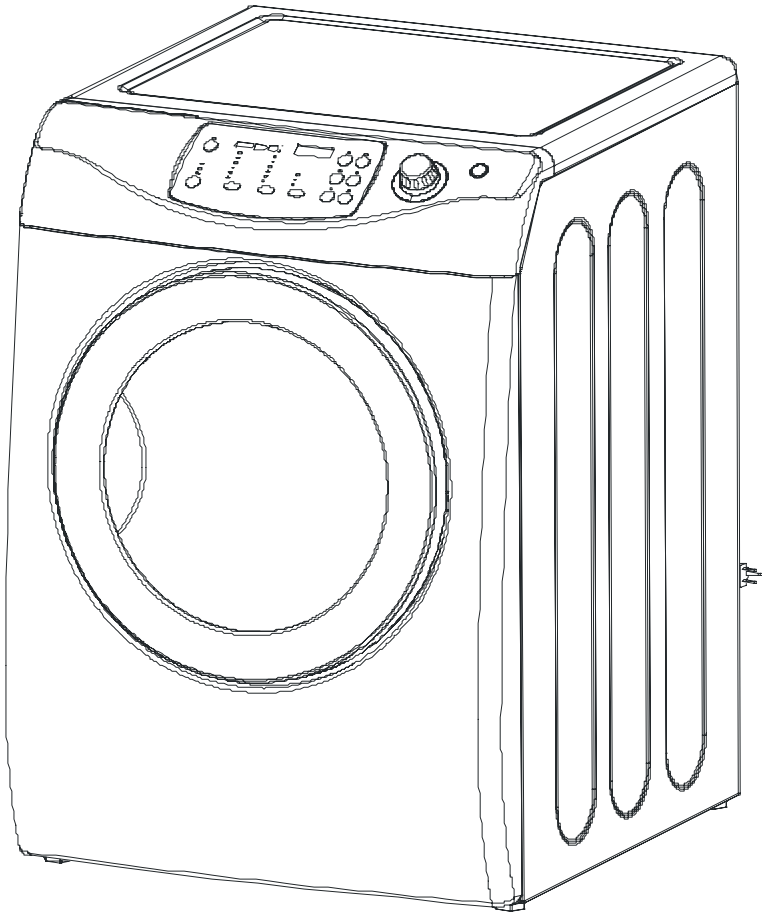
MAYTAG Training Services

Maytag Neptune 27” Dryer



MAYTAG

L2005-006

Slide 1

Maytag Neptune 27” Dryers

Premium – MAH9700 - Gas and Electric

Slope Front Console – Matches the 9700 and 8700 washers

Entry Level– MAH6700 - Gas and Electric

Flat Front Console- Stackable

Slide 2

Maytag Neptune 27” Dryer

Slide 3

Maytag Neptune Dryers MDE&MDG 9700

Features	
Capacity (cu.ft)	7.3
Controls	LED
Dryness Control	Sensor Bars
Degree of Dryness Selections	
Damp Dry	
Less Dry	
Normal Dry	
More Dry	
Very Dry	
Very Dry	
Temperature Selection	
Extra Low	
Low	
Medium	
Regular	
Base Cycle Selection	
Regular	
Wrinkle Control	
Time Dry	0 - 99 Minutes
Freshen Up	
Delicates	
Air Fluff	
Wrinkle Release	
Quick Dry	
Wrinkle Prevent	

Features	
Tumbler	Stainless
Drum Light	10 Watt 120VAC
Drying Rack	
Reversible Door with 15” glass	
4 Point Suspension	4 rollers, 2 front , 2 rear
Adjustable Chime	High, Low, Off
Bower	180CFM
Venting	Back, Sides, Bottom
Duct length	80 FT Maximum
Color	White
Dimensions	
Dryer Width	27”
Dryer Depth	30.375”
Dryer Height	38”
Weight	138 LBS.
Pedestal Riser	13” High
(MAL 1800 AX*)	
MDE9700	
Heating Element	5150 Watts
MDG9700	Electronic Ignition/ Safety Shutoff
Valve/Burner	22,000 BTU

Slide 4 - Installation

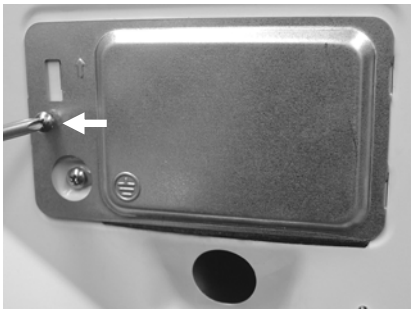
Slide 5

The installation of the 27” gas and electric dryer is no different than current product.

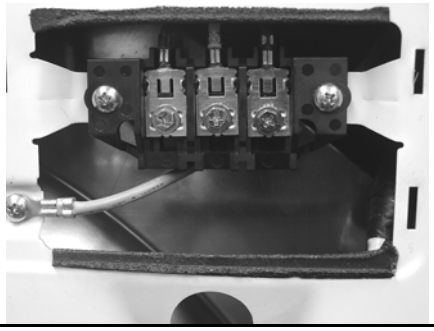
Follow the Installation instructions shipped with the dryer and observe all codes.

Slide 6

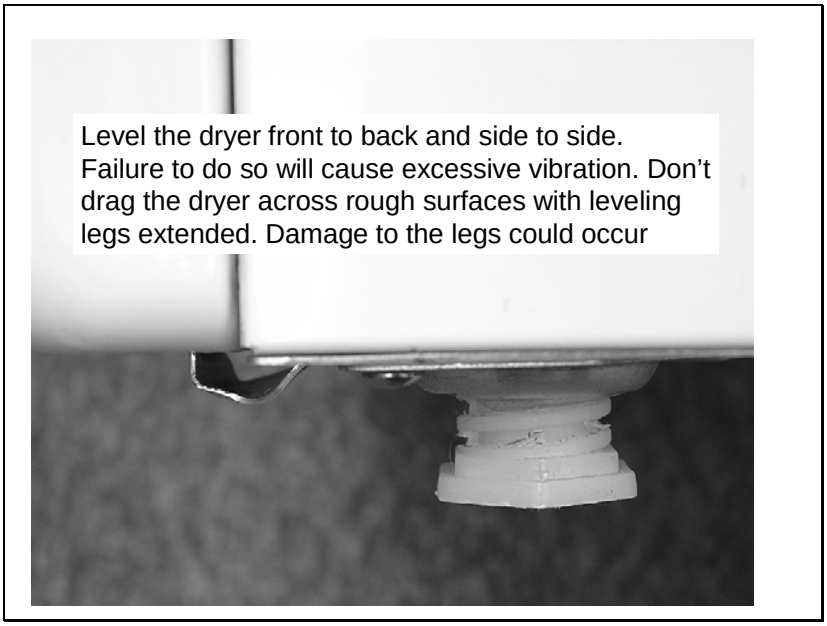
Slide 7



Remove the screw securing the electrical cover. Follow the instructions included with the dryer for installation of either a 3 or 4 wire power cord



Slide 8



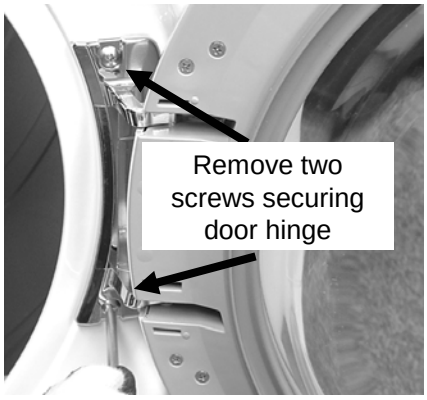
Slide 9

Slide 10

Follow the information in the use and care manual and the warning labels on the dryer concerning proper use of the dryer

Slide 11 - Door Reversal

Slide 12



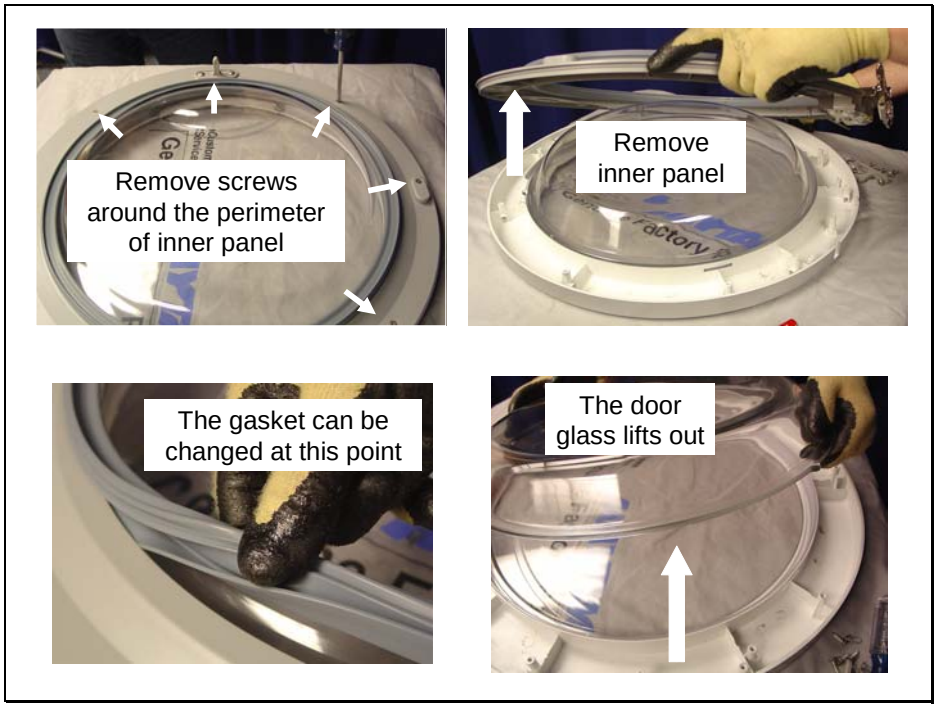
Slide 13

Install the door hinge on the opposite side

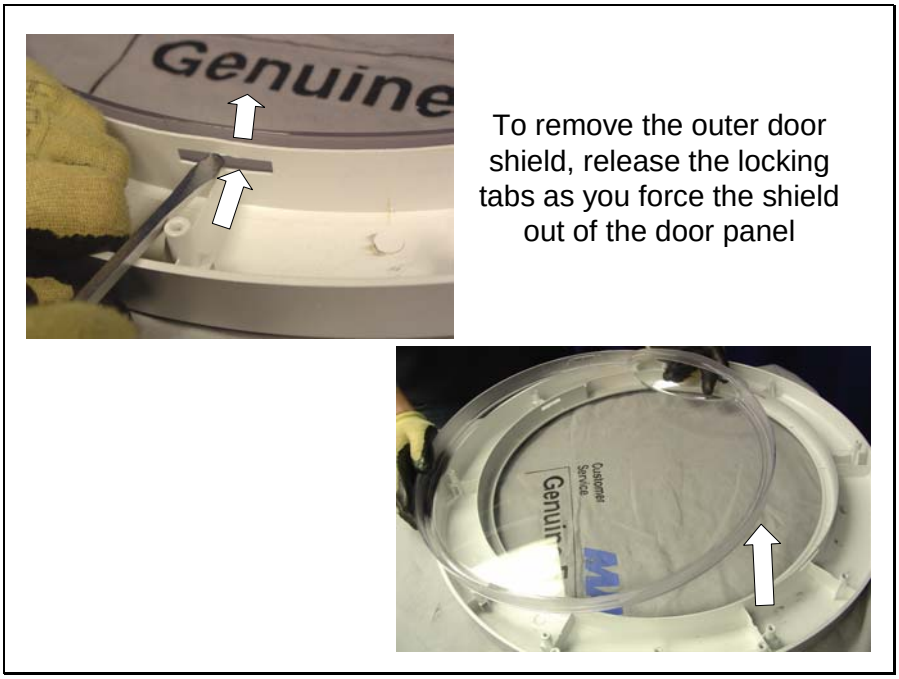
Install the door strike and two fill screws

Slide 14 - Door Service

Slide 15



Slide 16

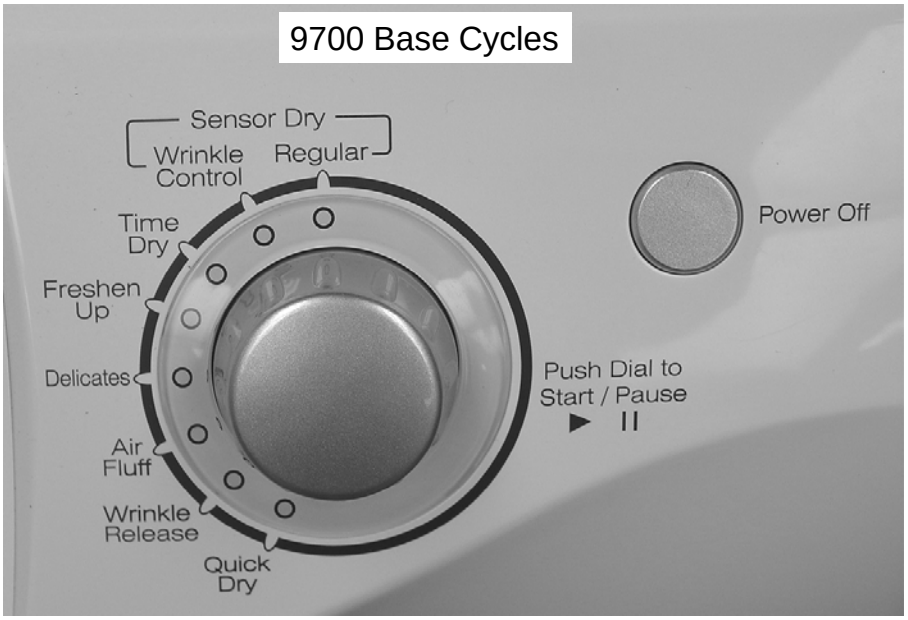


Note: There was a change to the door @ series 11. The diameter of the door glass is 7mm larger than series 10

Slide 17 - 9700 Controls

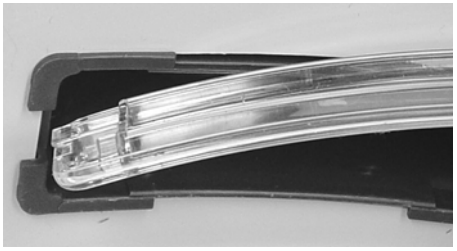
Slide 18

Slide 19



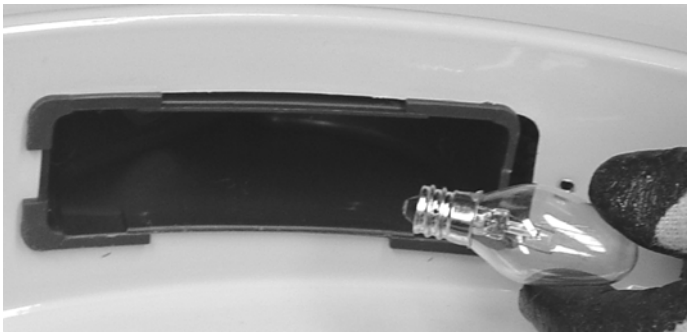
Slide 20 - Light Bulb

Slide 21



The light bulb must be changed from the inside of the tub. Remove lens screw and cover

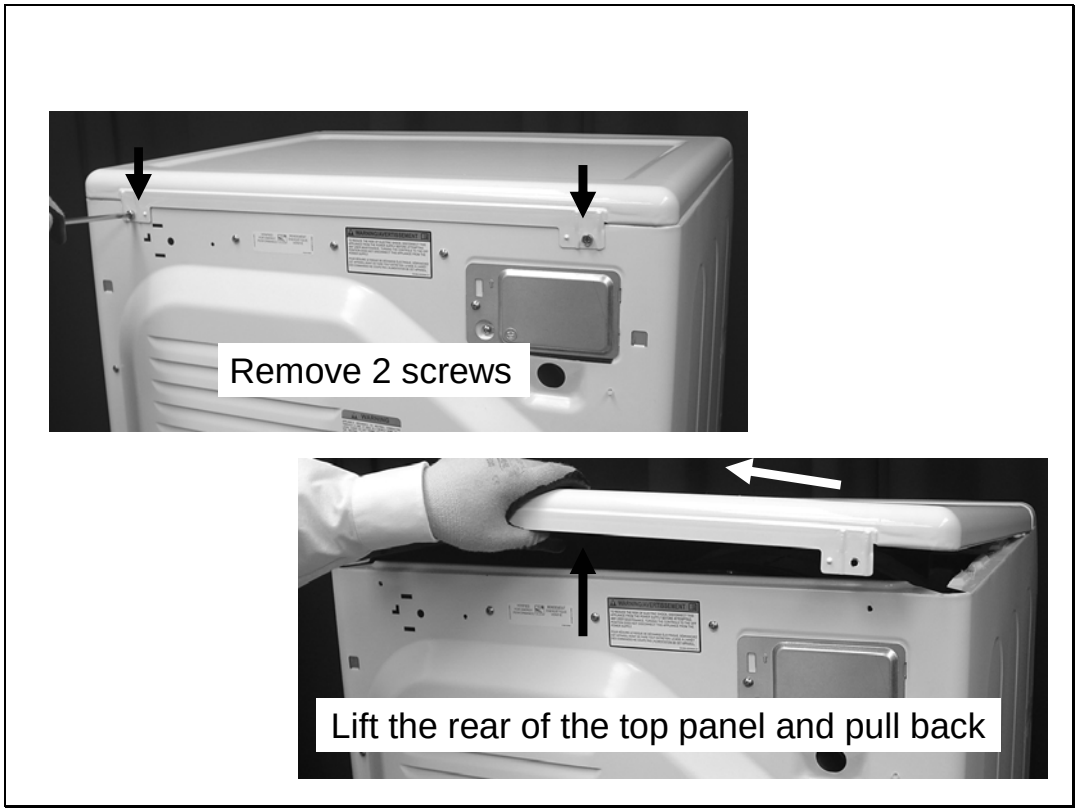
Slide 22



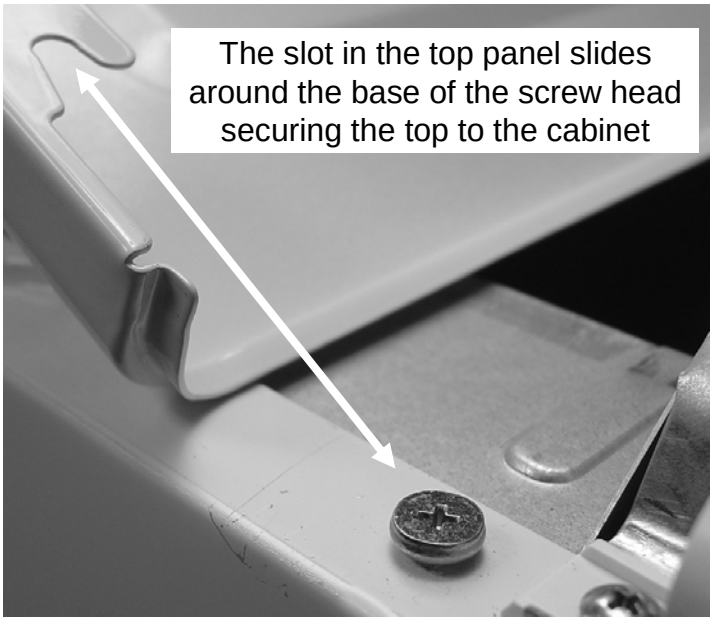
The 10 Watt 120 VAC rated bulb unscrews from the socket

Slide 23 - Removing the Top

Slide 24

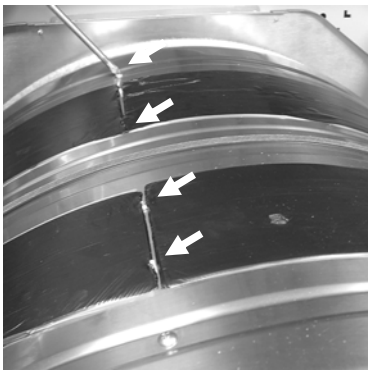


Slide 25

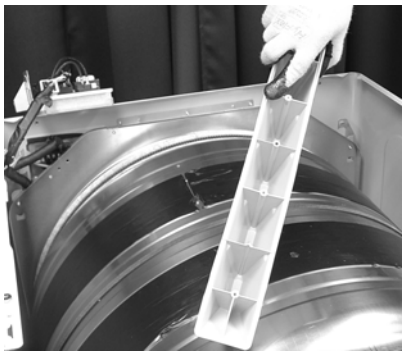


Slide 26 - Replacing a Drum Baffle

Slide 27

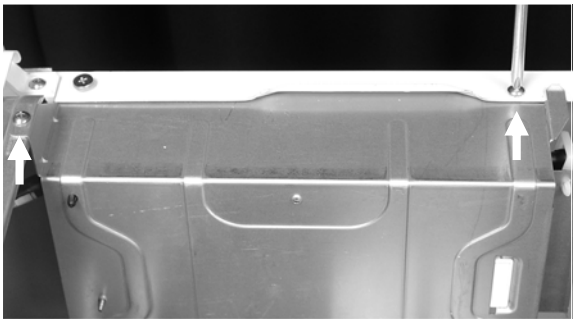


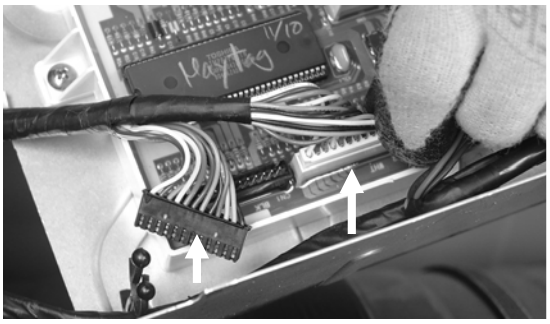
There are four screws securing each baffle in place. The screws can be found at the seams in the sound dampening material



Slide 28 - Replacing a Drum Baffle

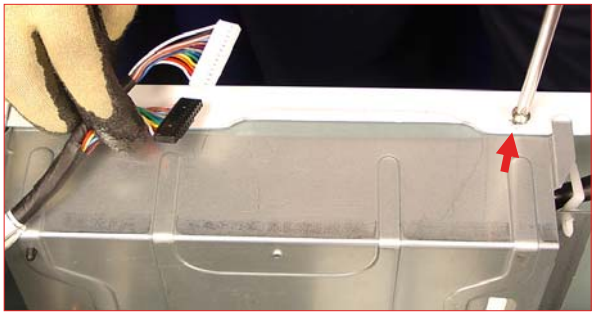
Slide 29



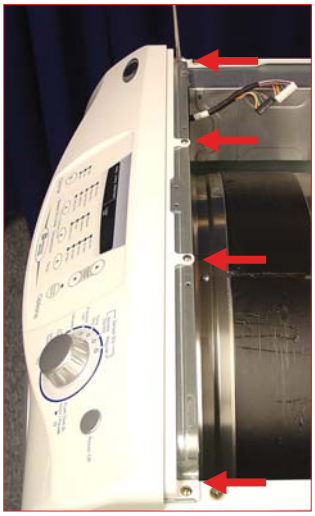


Remove the two screws securing the control board to the cabinet. Disconnect the black and white connectors.

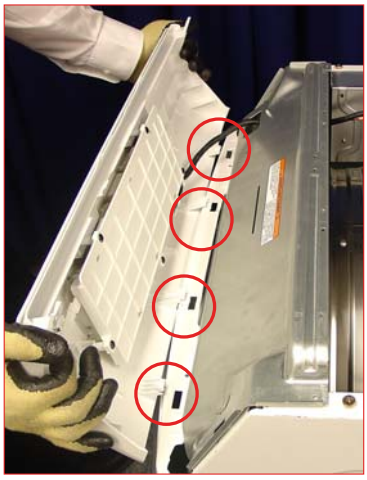
Slide 30



Insert one screw into control housing to secure it out of the way.
Remove the four screws securing the console to the back guard



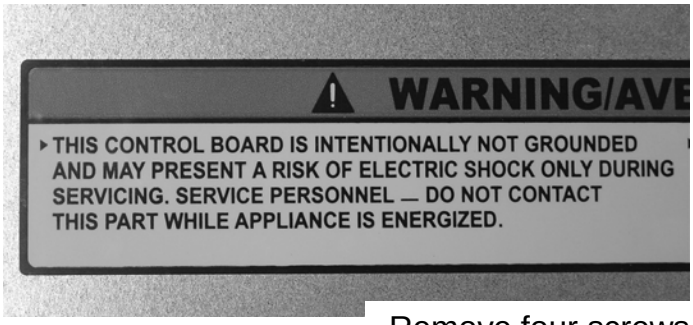
Slide31



Roll the console back as you lift the bottom up and in. There are 4 plastic tabs on the bottom of the console that align with slots in the top of the front panel. Remove the console assembly and set aside

Slide 32 – Removing the Front Panel

Slide 33

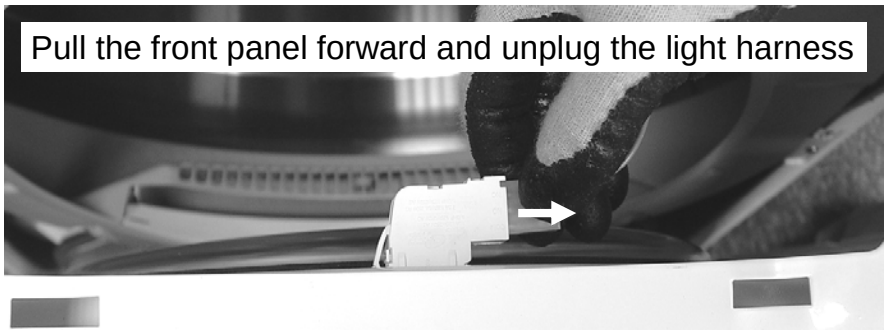


Remove four screws across the top of the front panel

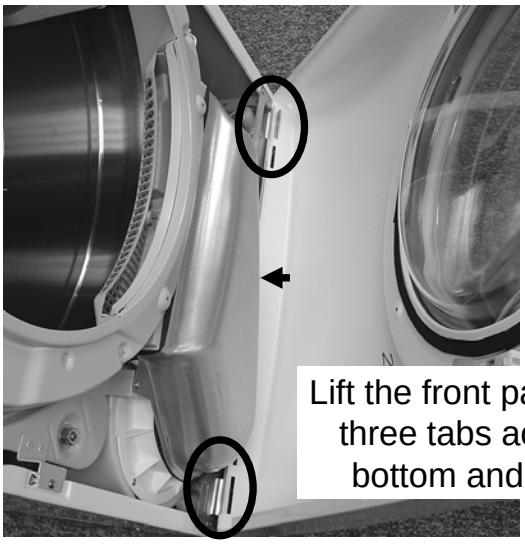
Slide 34

Remove two screws located at the bottom of the door

Pull the front panel forward and unplug the light harness



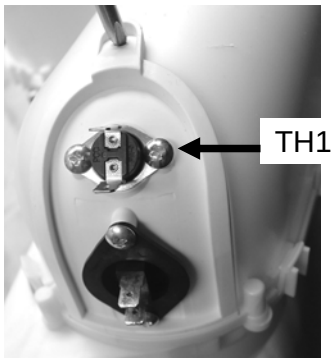
Slide 35



Slide 36 – Component Location

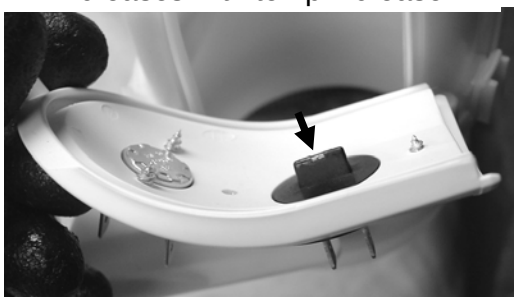
Slide 37- Safety Thermostat and Thermistor

Slide 38



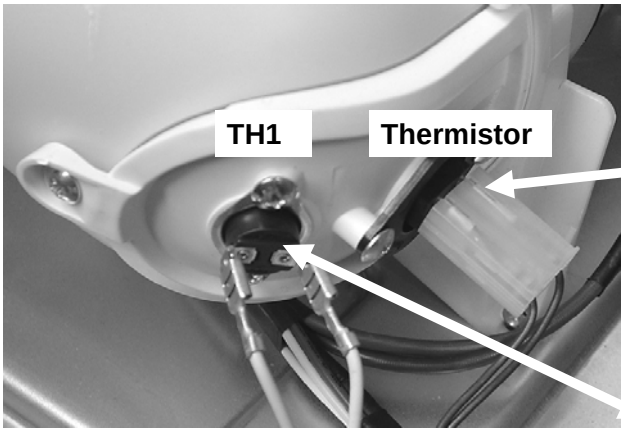
TH1 Thermostat 185F

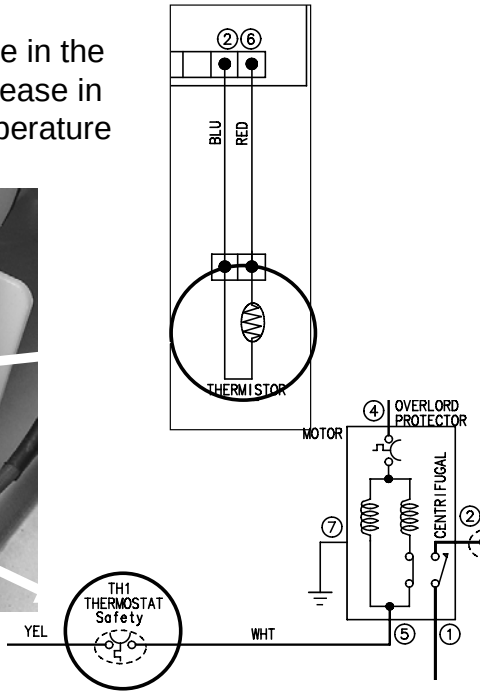
Thermistor
Resistance - 10,000 ohms @77F
Increases with temp increase



Slide 39

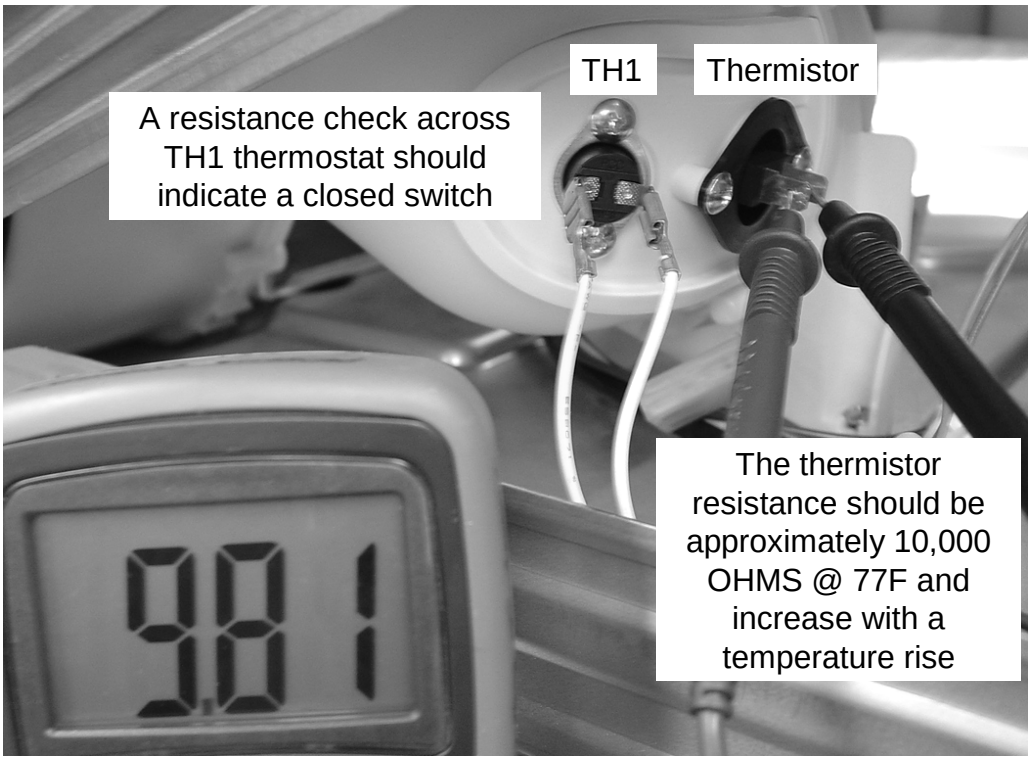
The machine control monitors the change in the Thermistor resistance caused by an increase in temperature to control the operating temperature





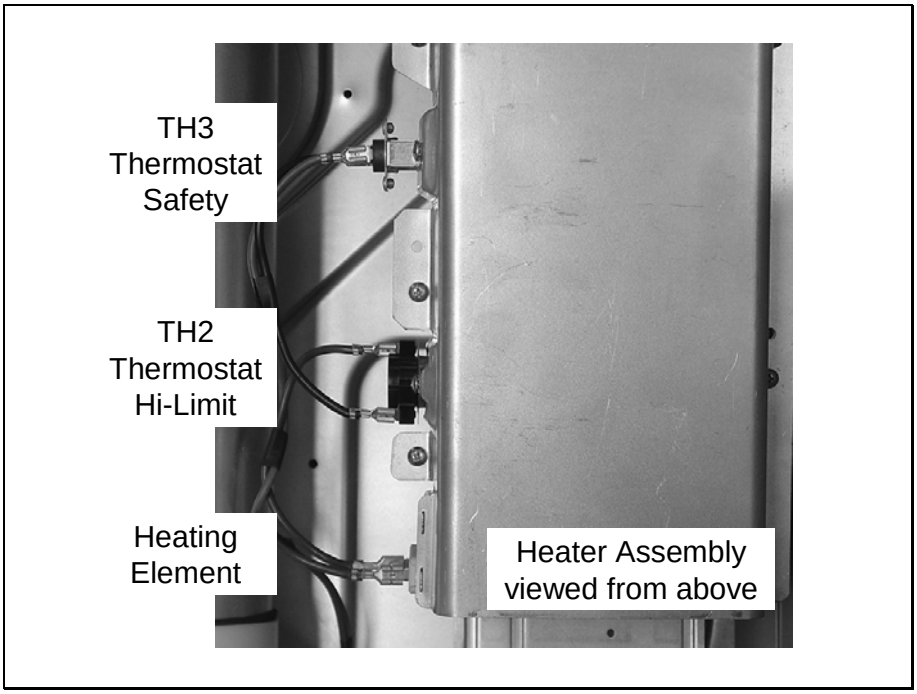
TH1 thermostat is a normally closed switch that opens due to excessive duct temperature. If TH1 opens, the motor and heating element are de-energized

Slide 40

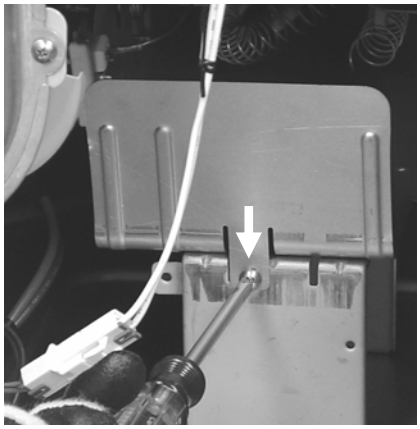


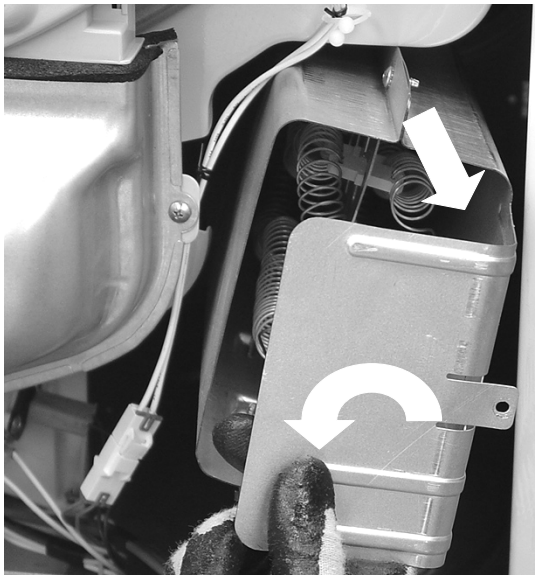
Slide 41 - Removing the Heating Element

Slide 42



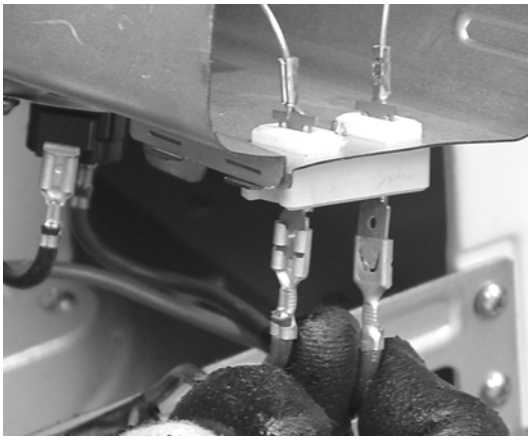
Slide 43



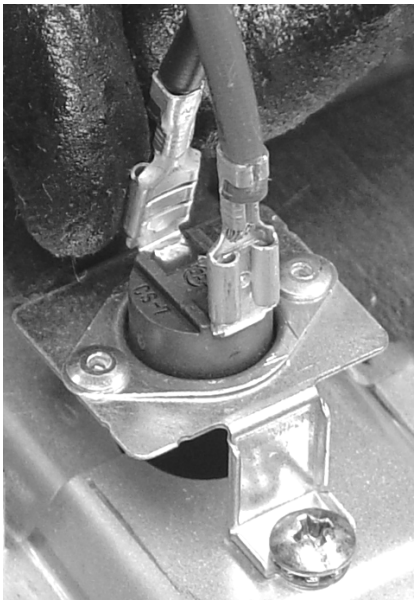


Remove screw, rotate heater assembly and pull out

Slide 44



As you remove the heater assembly unplug the wires on the heating element and safety stats

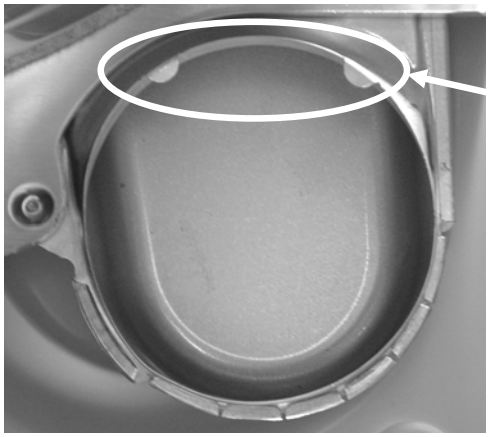


Slide45

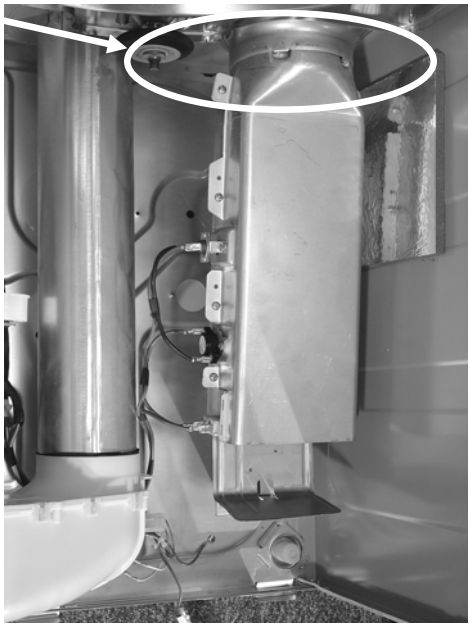
The heating element and housing are supplied as an assembly. The Hi-Limit and Safety Thermostat are replaceable items

Slide 46 - Installing the Heater Assembly

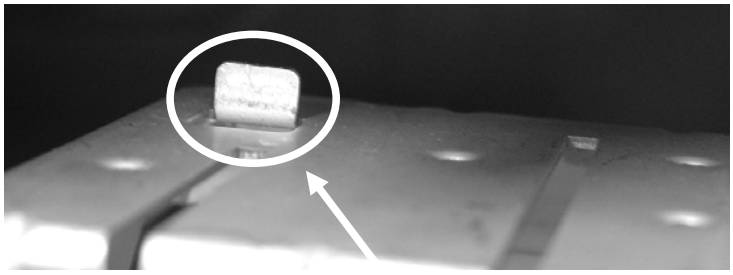
Slide 47



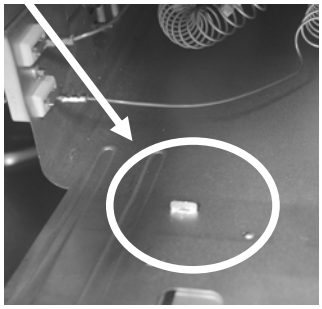
Align the detents in the heater housing with the tabs in the rear bulkhead and slide in



Slide 48

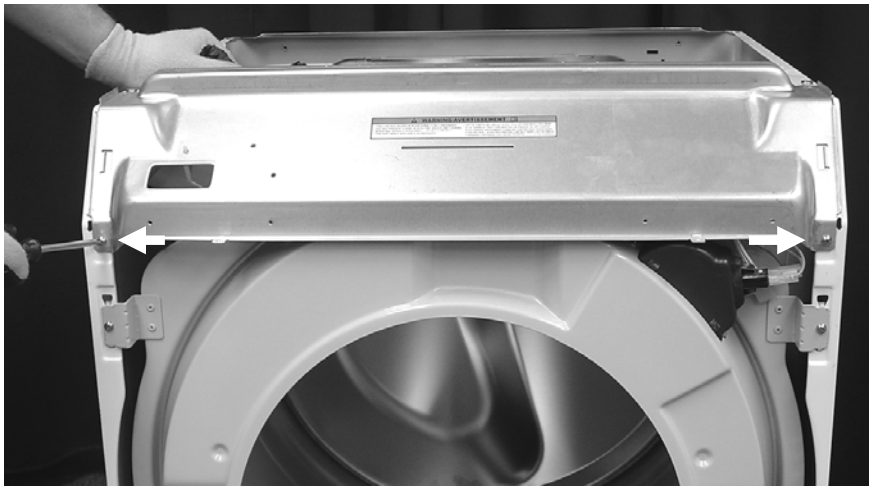


Align the tab on the top of the mounting bracket into the slot in the heater housing



Slide 49 - Removing the Front Bulkhead

Slide 50

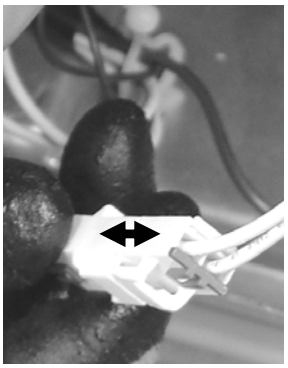


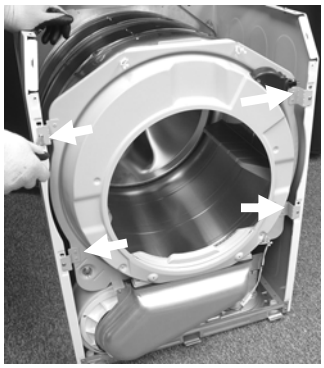
Remove two screws to remove the console back guard

Slide 51

Disconnect wires to light

Disconnect sensor wires

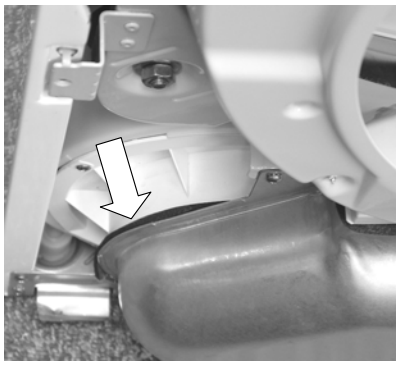




Remove four screws

Lift up and out to remove the bulkhead

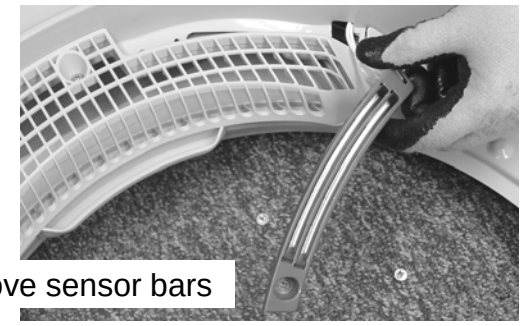
Slide 52



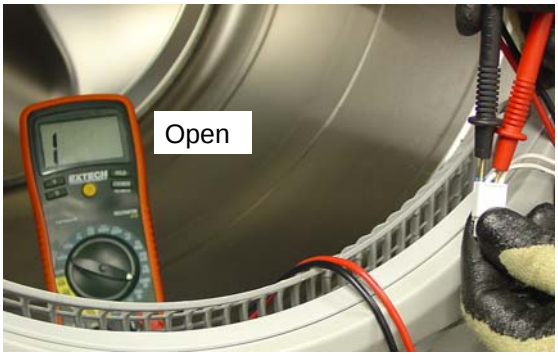
A foam gasket is used between the blower inlet and drum vent

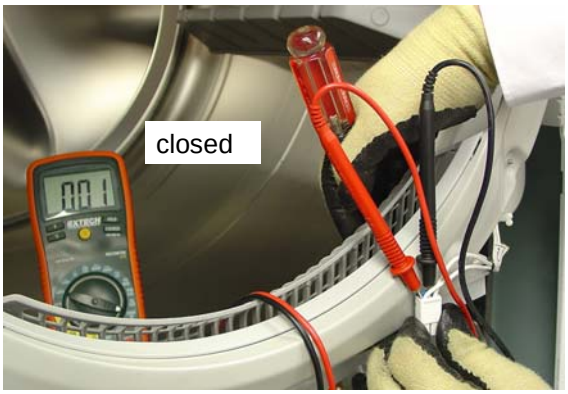
Slide 53 - Moisture Sensor

Slide 54

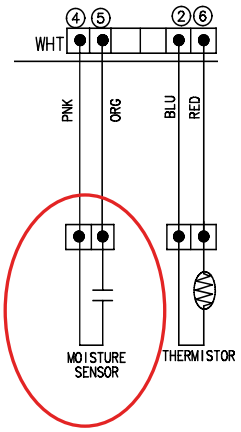


Slide 55



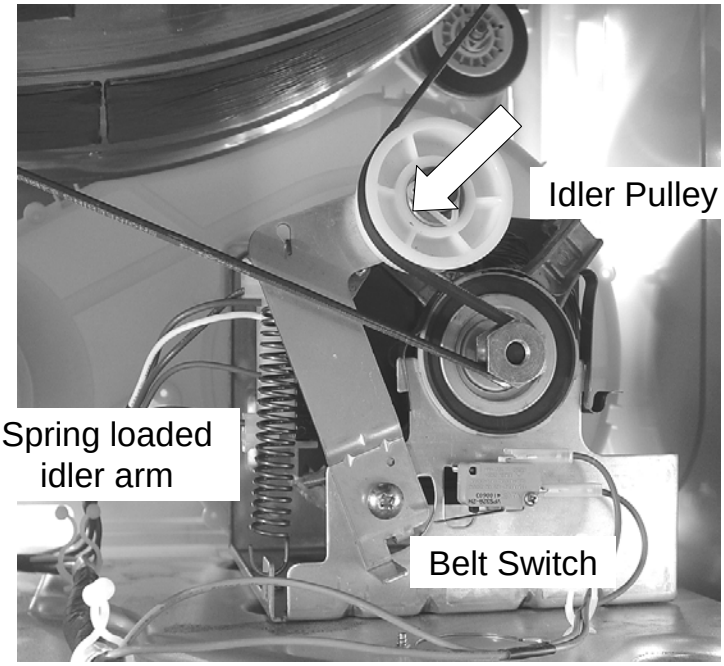


Check across the two leads to the sensor bars, the circuit should be open. Short across the sensor bars, the resistance should be less than 1 OHM

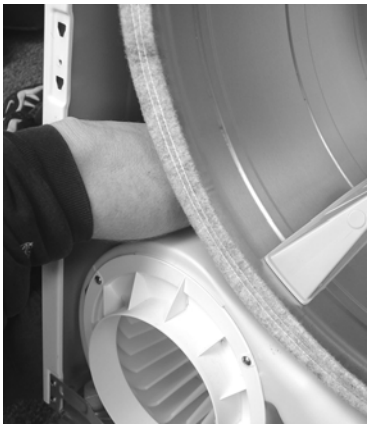


Slide 56 - Belt Service

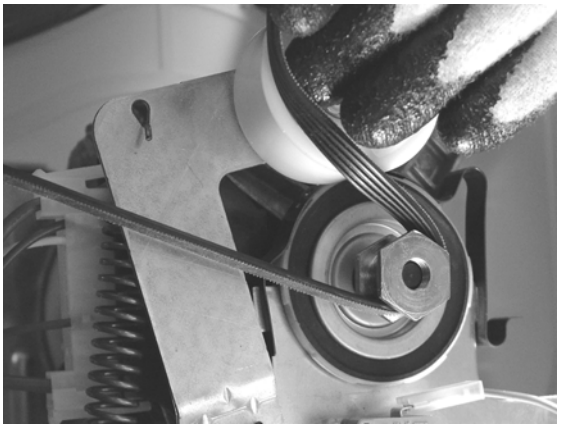
Slide 57



Slide 58

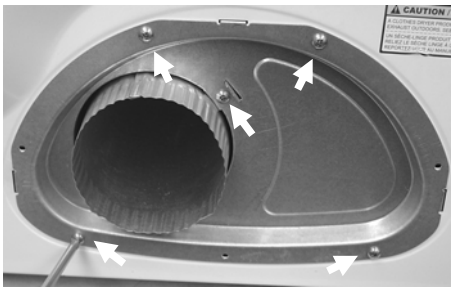


The belt can be removed and installed from the front of the machine.

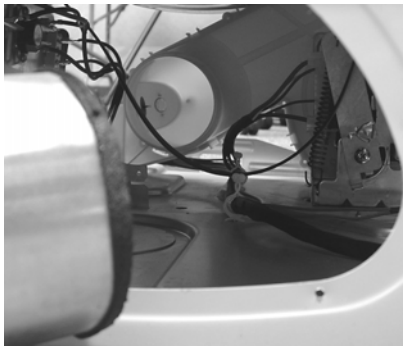


Slide 59 - Accessing the Belt from behind the dryer

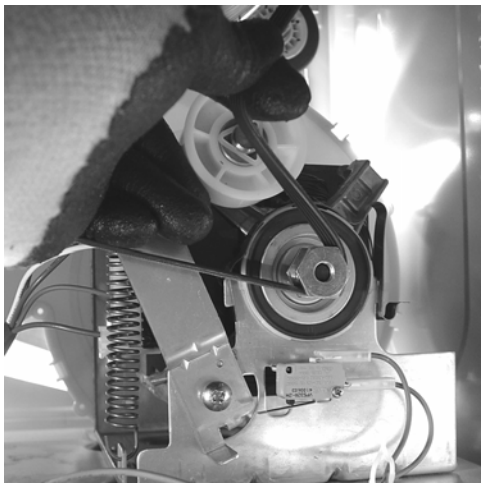
Slide 60



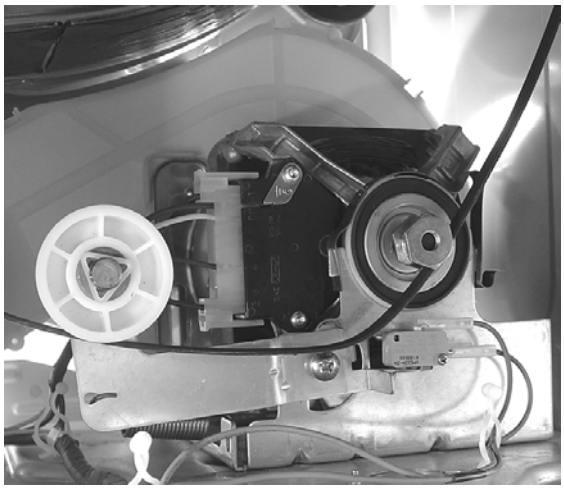
Remove five screws to remove vent tube and cover



Slide 61



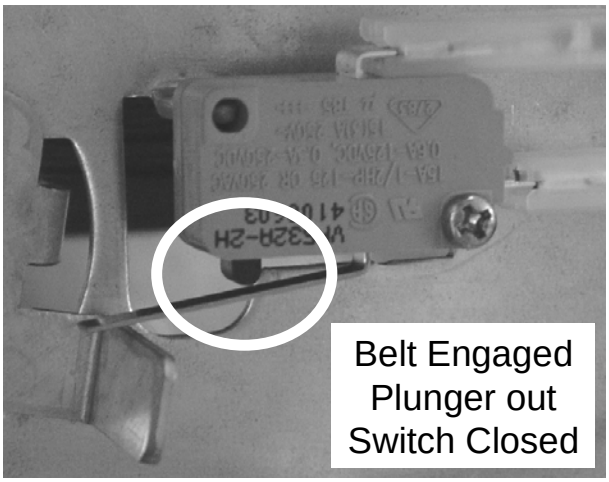
Accessing the belt from the rear allows a clear view of the motor, belt and pulleys

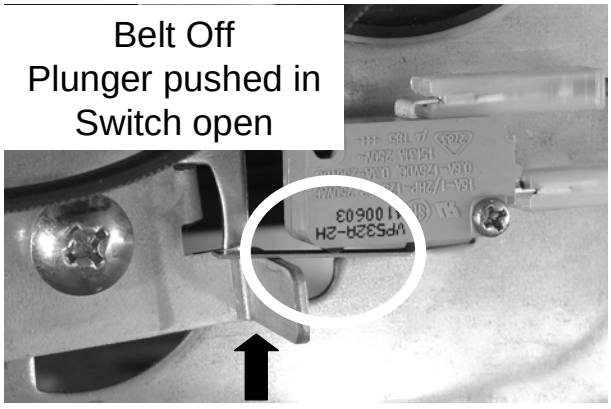


Slide 62

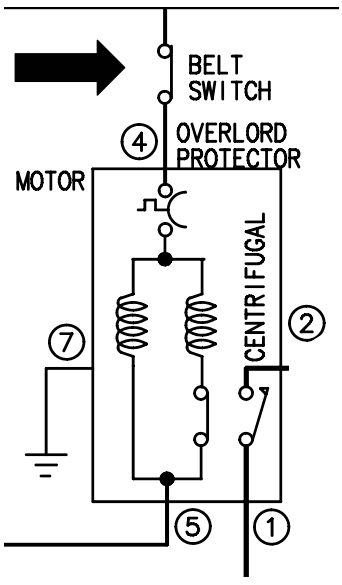
Slide 63 - Belt Switch

Slide 64





The belt switch acts as a safety to insure the motor and heater cannot operate if the belt is off



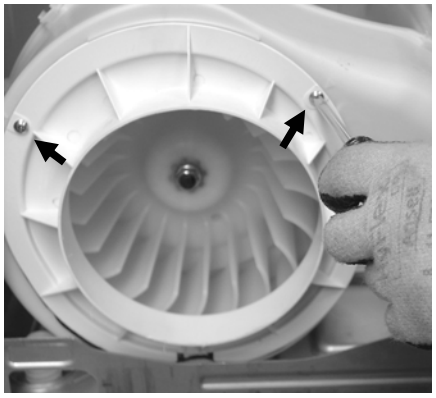
Slide 65 - Removing the Drum

Slide 66

Grasp the tub with one hand and the belt with the other. Lift the tub and slide out the front. Carefully spread the cabinet as needed to gain additional clearance

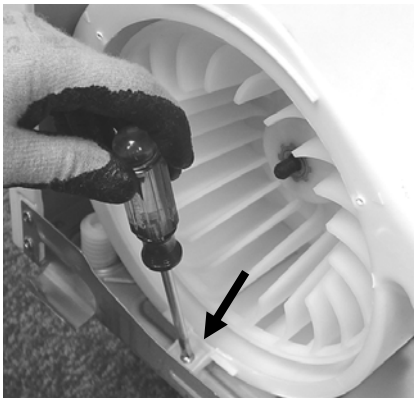
Slide 67 - Removing the Motor Blower Assembly

Slide 68



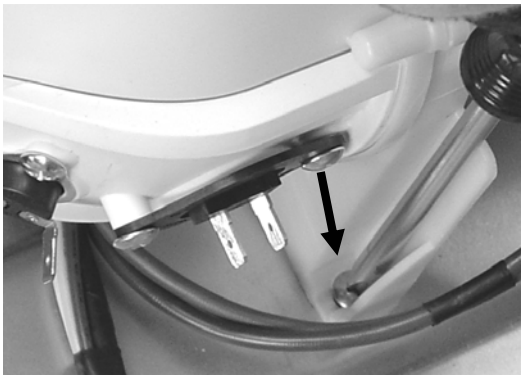
Remove the two screws securing the blower intake baffle to the blower housing and remove

Slide 69



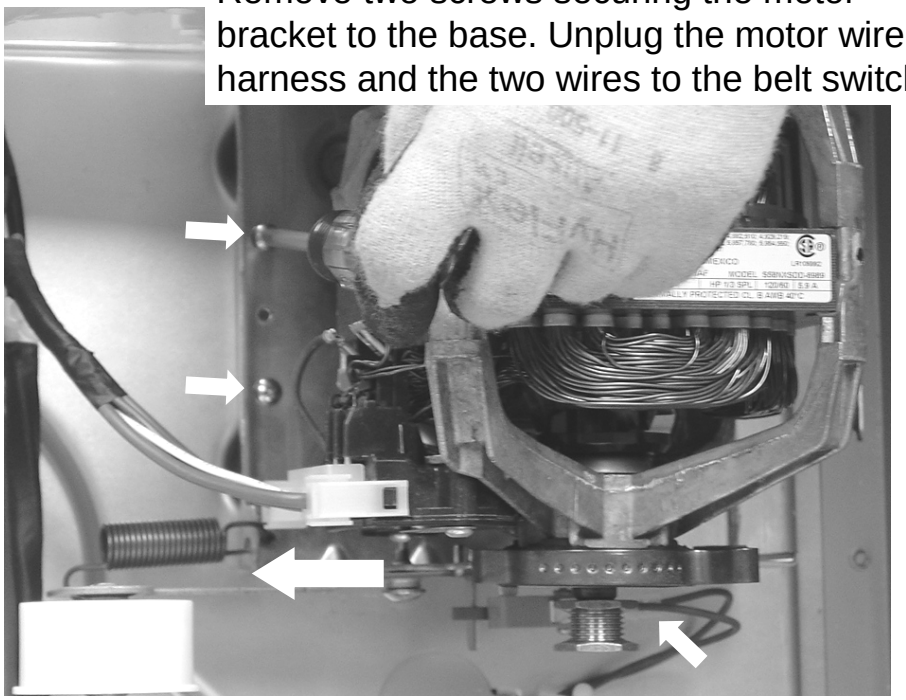
With the inlet baffle removed, access is gained to the screw at the bottom of the blower housing.

Remove the screw under the thermistor



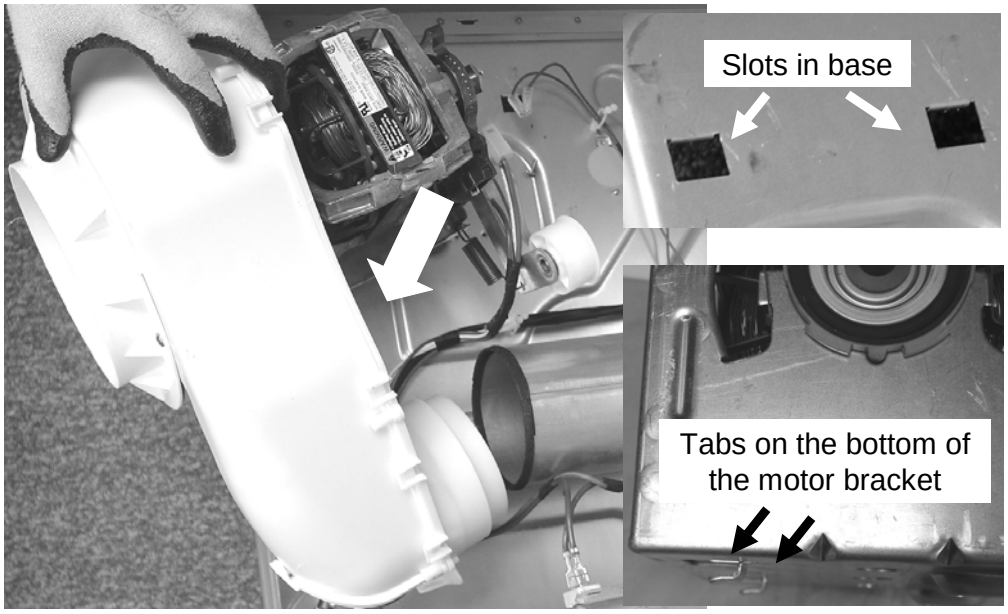
Slide 70

Remove two screws securing the motor bracket to the base. Unplug the motor wire harness and the two wires to the belt switch

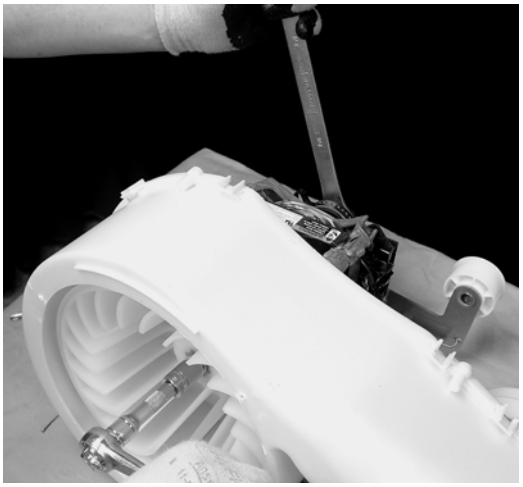


Slide 71

Slide the motor blower assembly toward the heater and lift. This will disengage the tabs on the motor from the slots in the base



Slide 72

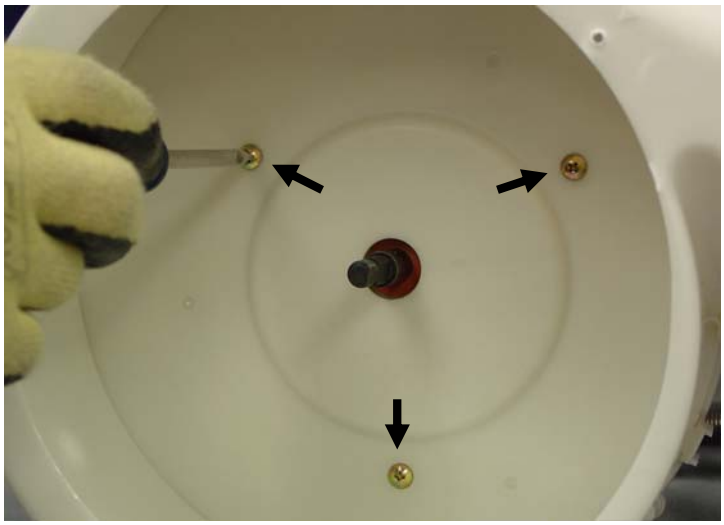


14mm left handed thread

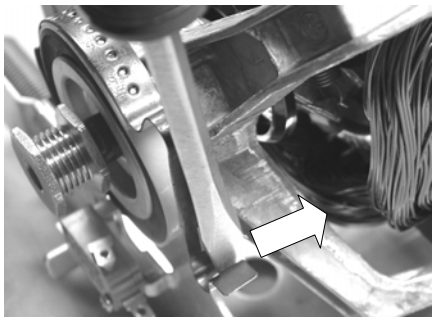
Remove the 14mm nut securing the blower wheel to the shaft. The nut is a left hand thread

Slide 73

Remove the three screws securing the blower housing to the motor bracket

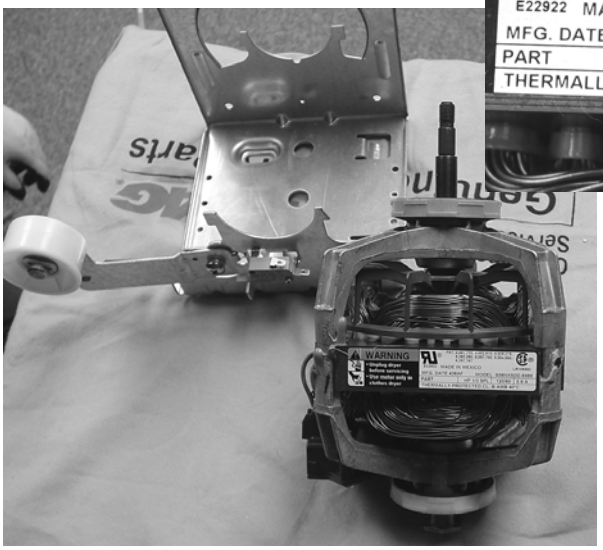


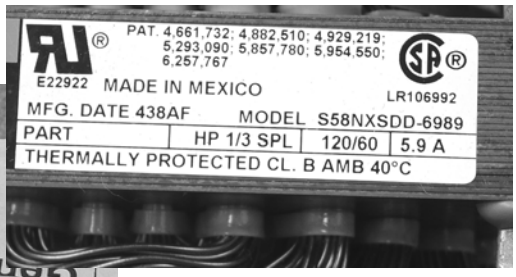
Slide 74



Use a wide blade screwdriver or nut driver to pop off the motor retention clamps

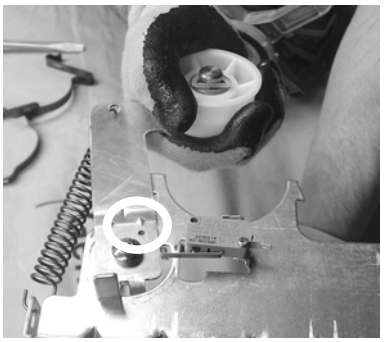
Slide 75

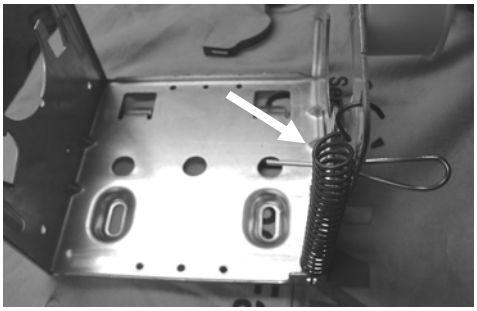




1/3 HP Split Phase Motor
120 VAC - 5.9 Amps

Slide 76



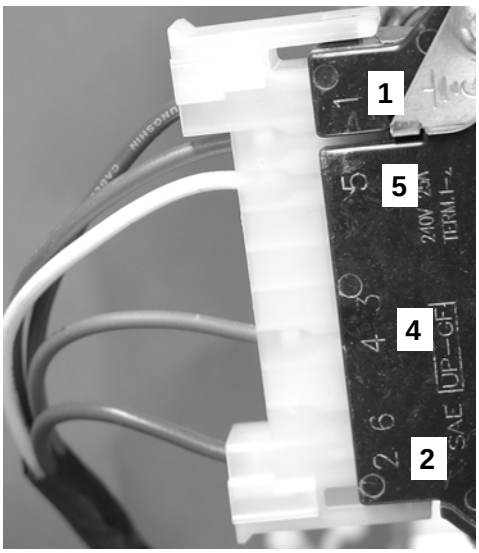


Optional:
Align the holes in the motor and idler brackets and install a rod or small screwdriver to lock the idler arm. This will ease the belt installation process

Slide 77

On completion of the reassembly, remove the locking rod

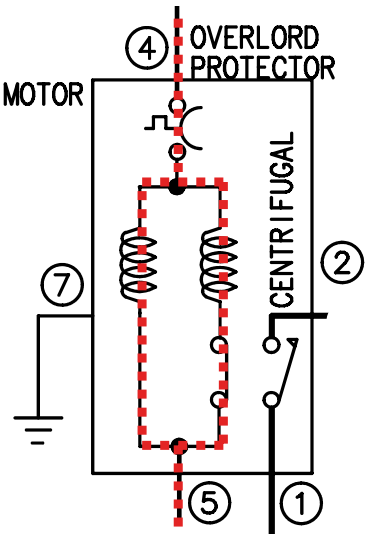
Slide 78 - Checking the Motor



Slide 79- Motor winding identification

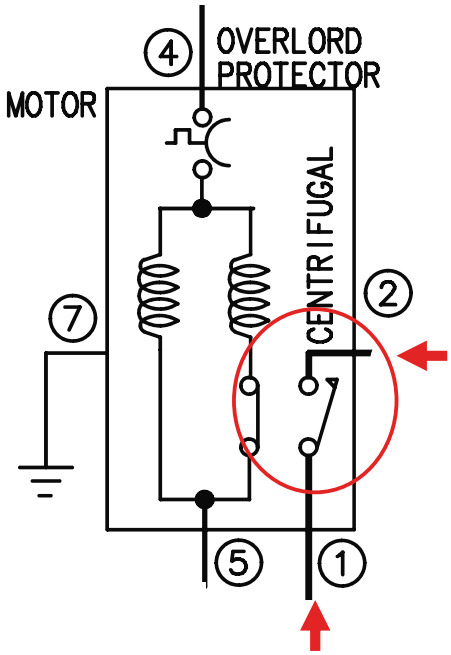
Slide 80

Check across #4 and #5 to check the motor windings and overload. Resistance reading should be approximately 2 Ohms



Slide 81

Check across #1 and #2, to check the centrifugal switch. The circuit should be open

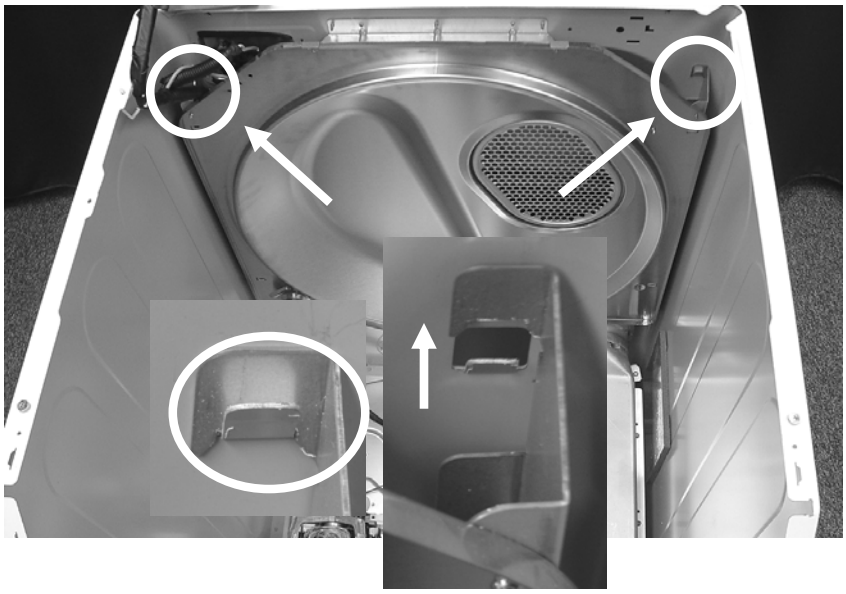


Slide 82- Removing the Rear Bulkhead

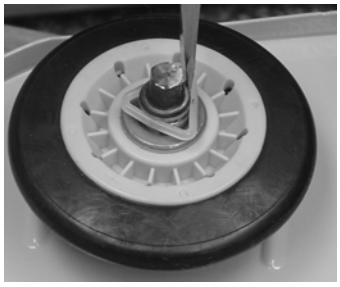
Slide 83

Slide 84

Lift the rear bulkhead off the right and left side hangers



Slide 85



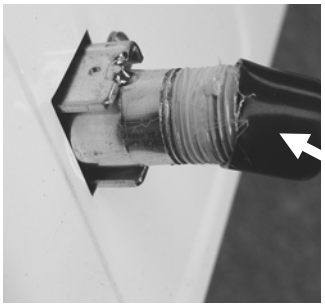
GAS DRYER

Slide 86 - 9700 Gas Dryer

Slide 87

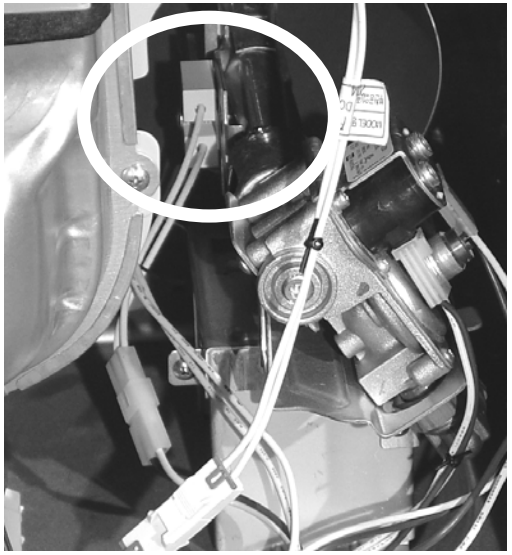
27” Gas Dryer
9700

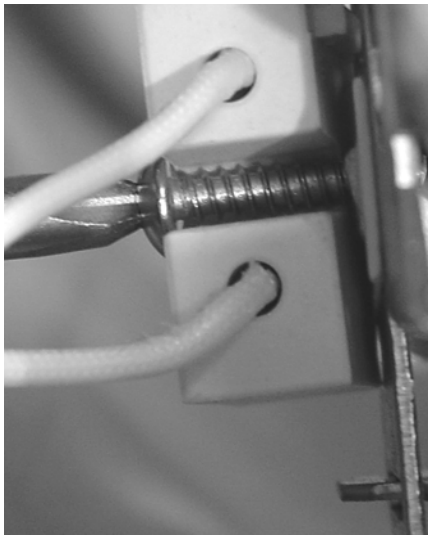
Gas unit is shipped with sealant on the pipe threads

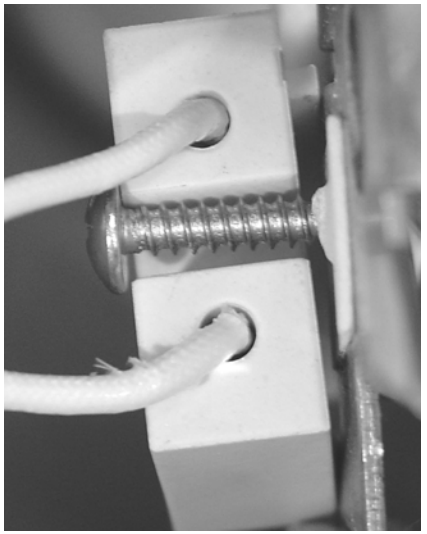


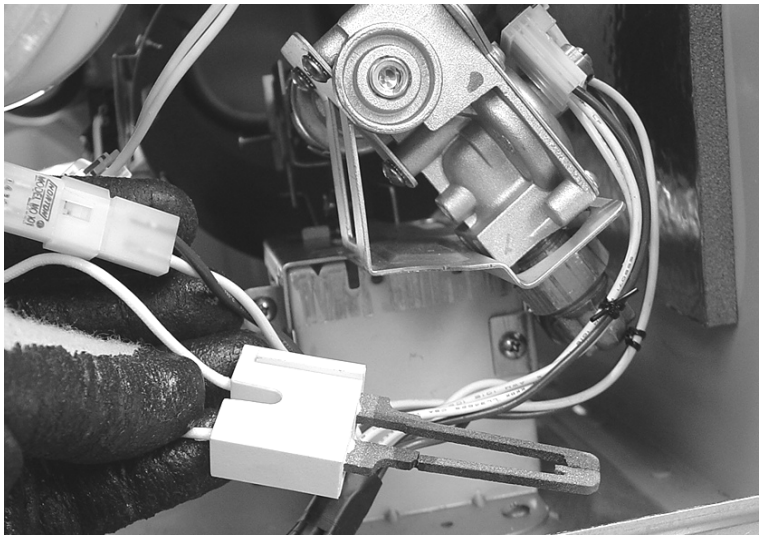
Slide 88 - Gas Burner Service

Slide 89



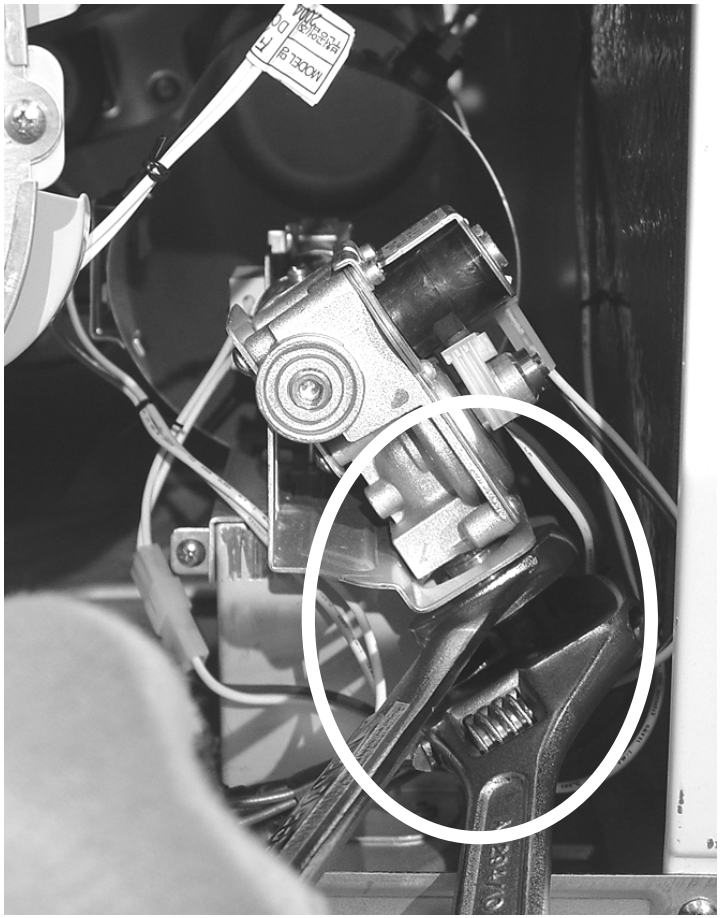






Replacing the Igniter:
Loosen the single screw securing the igniter to the burner assembly. Slide the igniter back and remove

Slide 90

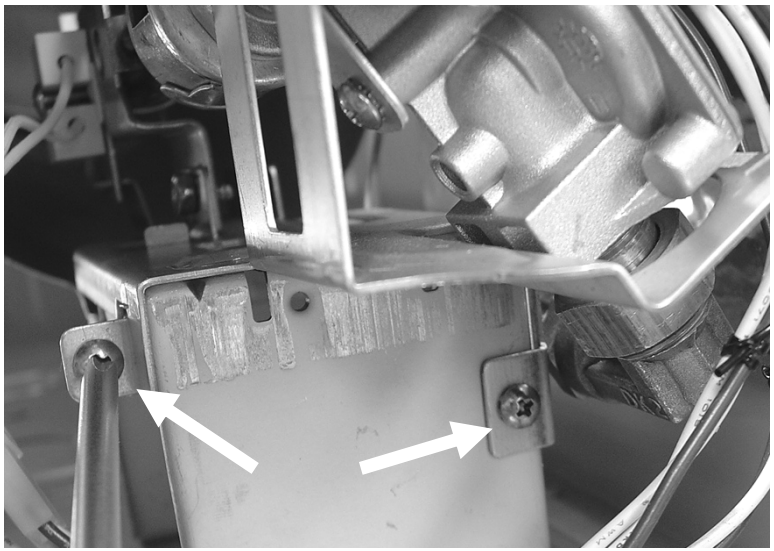


Removing the Burner:

Shut off gas supply!

Disconnect gas line

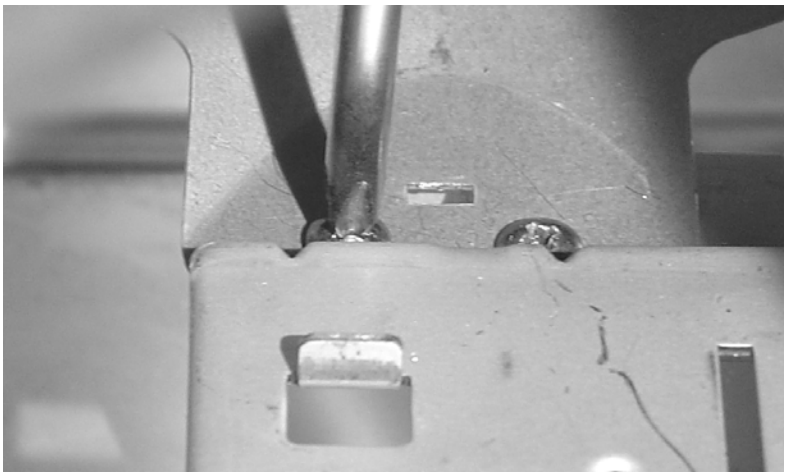
Remove two screws securing burner to bracket



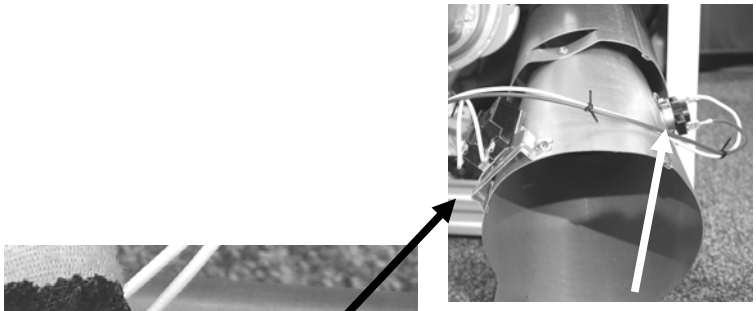
Slide 91

Slide 92

To remove the burner housing, remove two screws securing the housing to the burner bracket. The screws are hard to see from the front of the machine



Slide 93

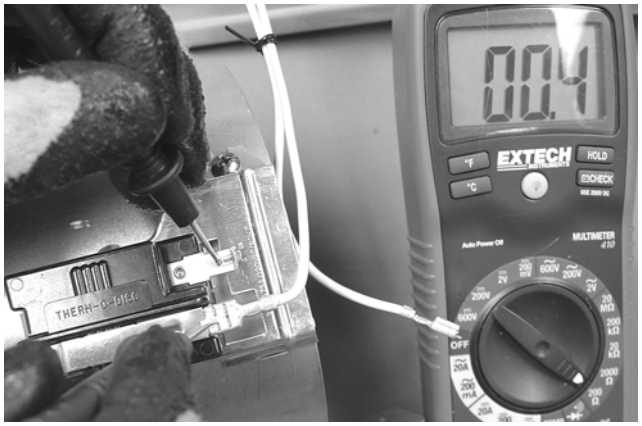


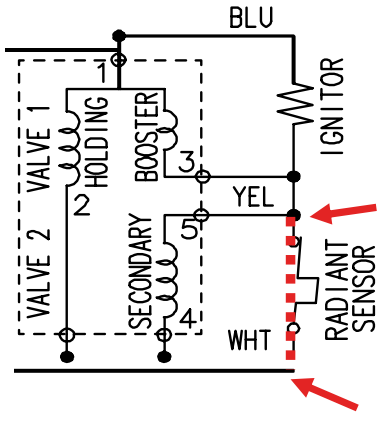
Radiant Sensor
(Flame Switch)

TH2 Safety Thermostat

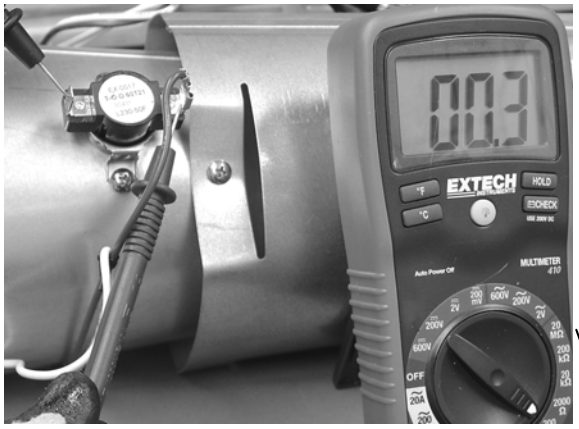
Slide 94

The radiant sensor (flame switch) is a normally closed switch. When a burner flame is established the heat from the flame heats the sensor to open it. A resistance check across the sensor terminals should indicate a closed switch

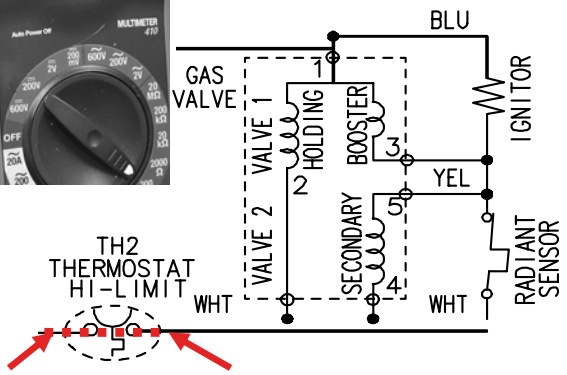




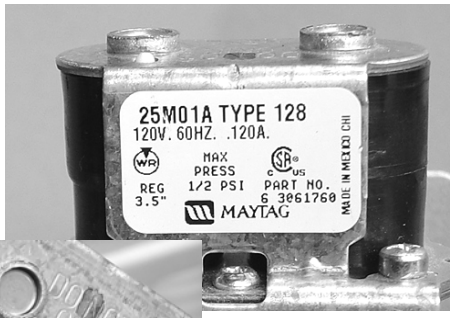
Slide 95

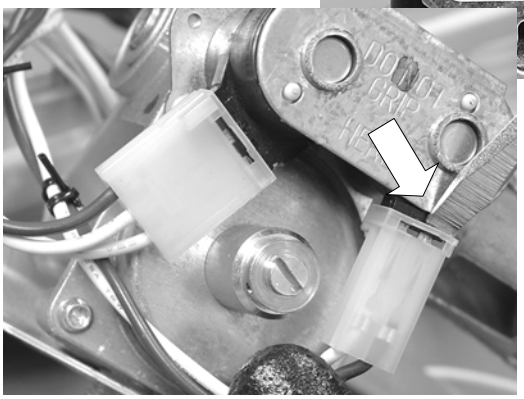


TH2 is a normally closed Hi-Limit safety. The resistance across the terminals should be less than 1 OHM



Slide 96

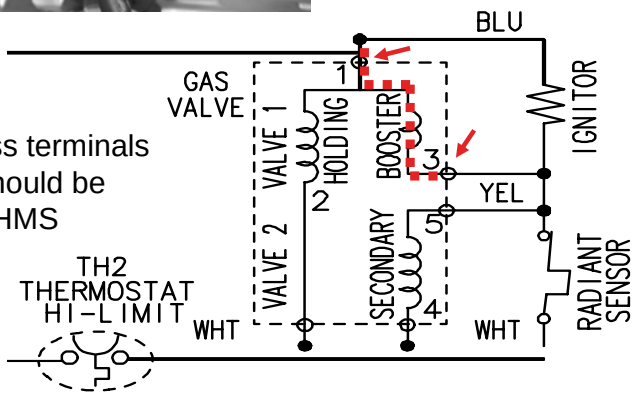




Use a screwdriver to release wire connectors from valves

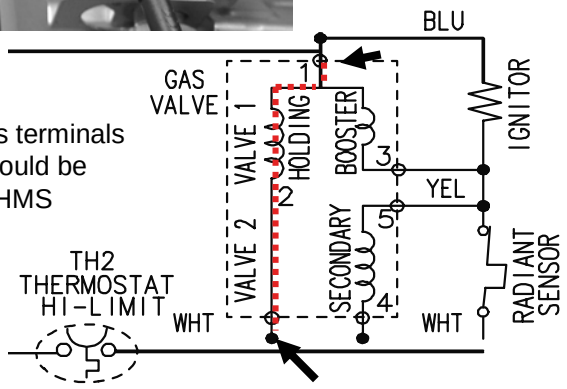
Slide 97

Check the booster coil across terminals #1 and #3. Resistance should be approximately 550 OHMS



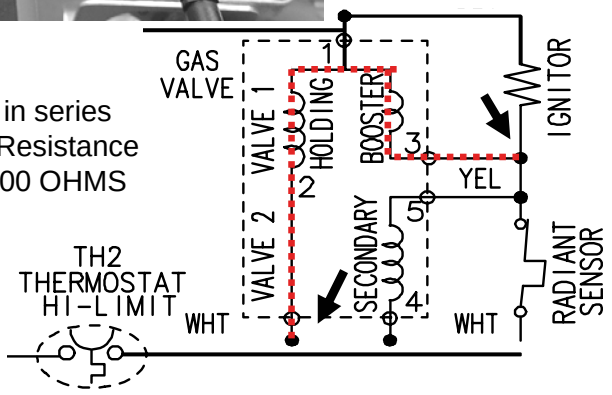
Slide 98

Check the holding coil across terminals #1 and #2. Resistance should be approximately 1350 OHMS

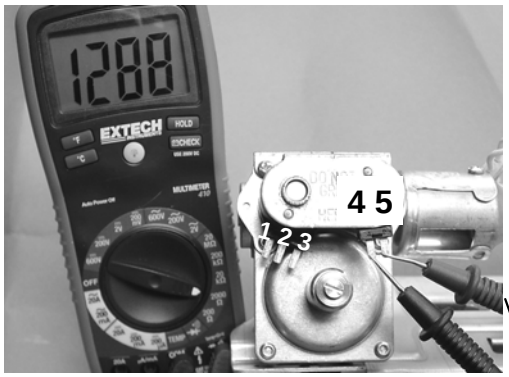


Slide 99

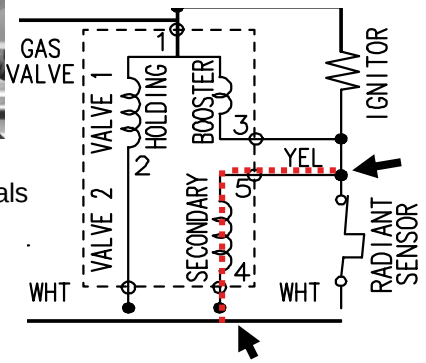
Both coils can be checked in series across terminals #2 and #3. Resistance should be approximately 1900 OHMS



Slide 100

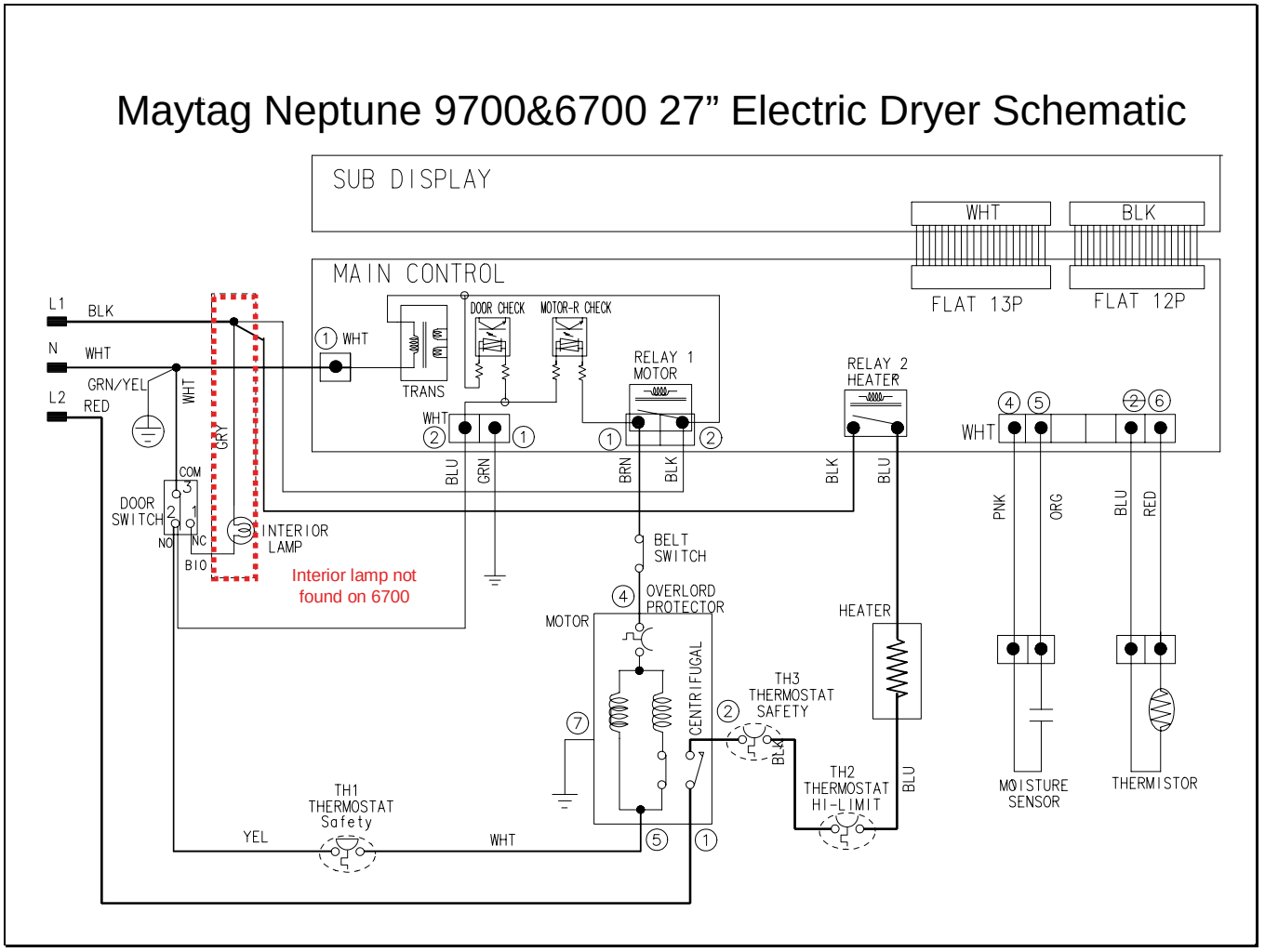


Check the secondary coil across terminals #4 and #5. Resistance should be approximately 1300 OHMS



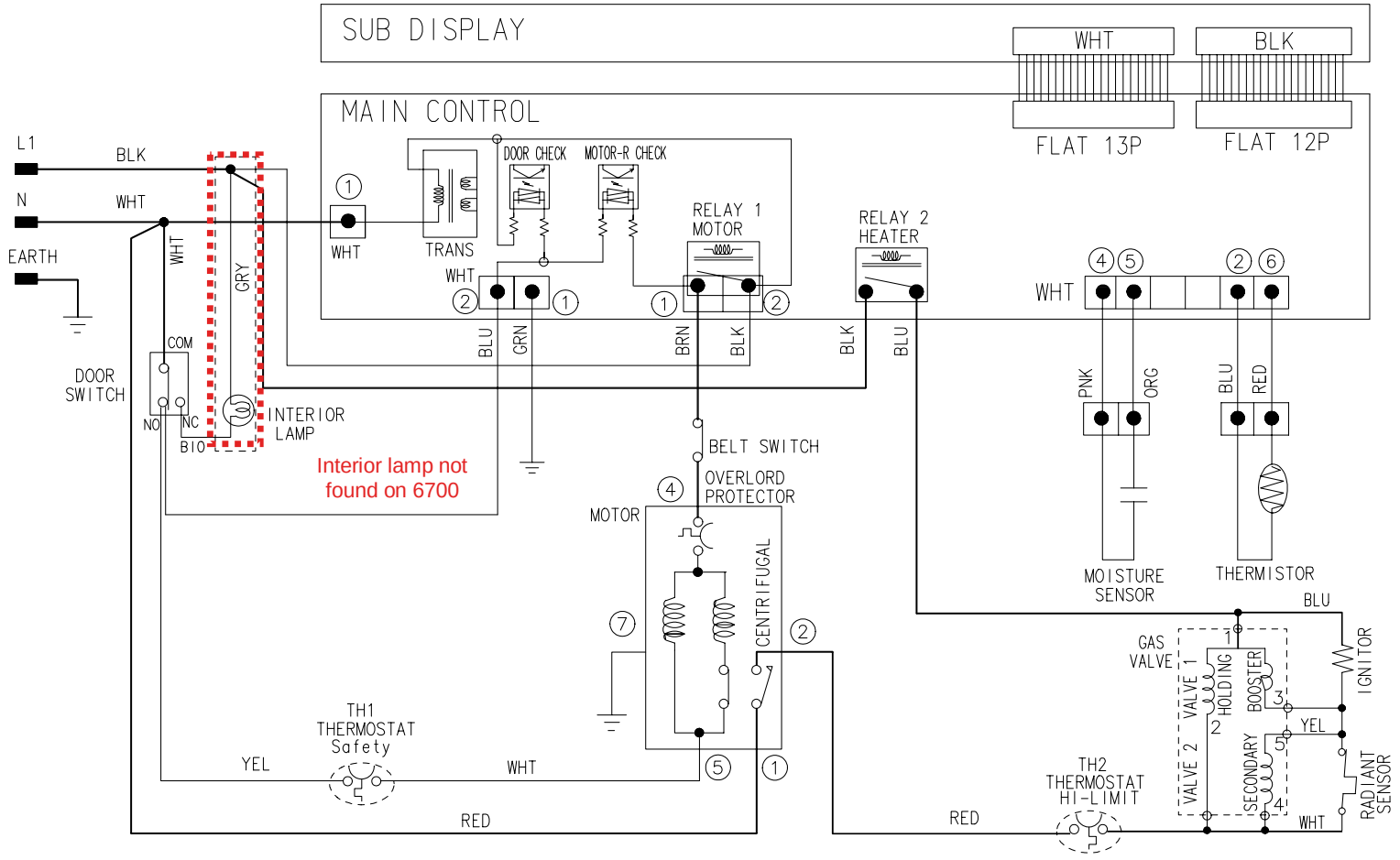
Slide 101 - Always refer to the Technical Data Sheet shipped with the product for detailed information for the model you are servicing. Follow all Caution and Safety Warnings

Slide 102



Slide 103

Maytag Neptune 9700&6700 27” Gas Dryer Schematic

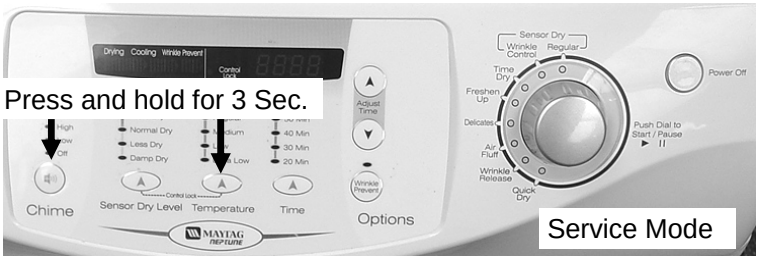


Slide 104

Service Mode

This mode provides Service Personnel the ability to verify the operation of the dryer. The Service Mode can be implemented at any time, including the middle of a dry cycle. While in the Service Mode, the Technician can start special diagnostic tests such as a System Check Mode, LED Switch/Check, Display Software version number and display diagnostic/help code listings.

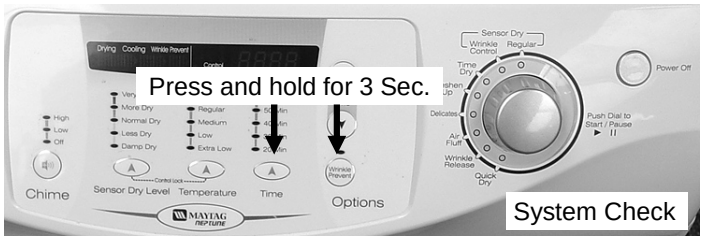
Slide 105



Enter Service Mode:
Dryer must be on before Service Mode can be entered. Press **Chime** and **Temperature** Keys for 3 seconds, or until 3 beeps are heard. The machine will now be in Service Mode. Upon entry into Service Mode, the Sensor Bar Touch
Data is to be displayed.
Exit Service Mode
Press the **OFF** key to exit Service Mode or repeat the **Chime** and **Temperature** sequence.

Refer to Technical Data Sheet for Detailed Instructions

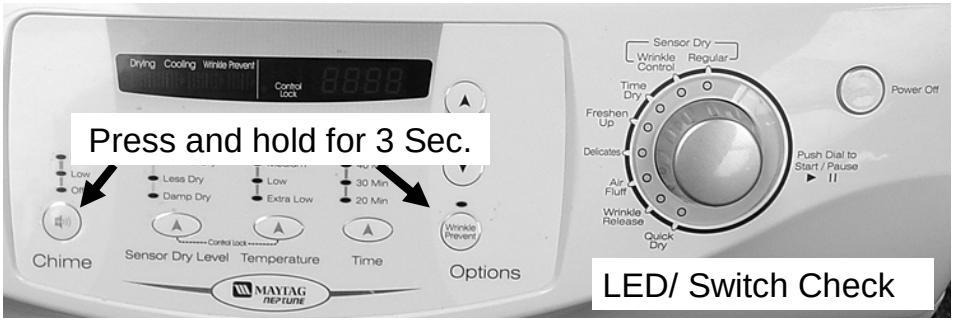
Slide 106



System Check Mode
While in Service Mode, pressing the **Time** and **Wrinkle Prevent** keys for 3 seconds, will put the dryer into the System Check mode and "**in**" will display. The following table lists the various functions based on the keys being pressed

Refer to Technical Data Sheet for Detailed Instructions

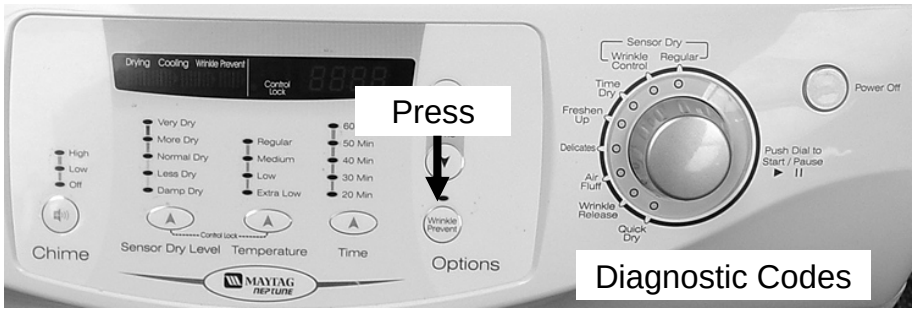
Slide 107



LED/Switch Check
While in Service Mode, pressing the **Chime** and **Wrinkle Prevent** keys for 3 seconds, will start a LED/Switch Test. To exit the test at any point, press the same keys again for 3 seconds or press the **OFF** key to exit Service Mode. Perform the check by pressing the keys which toggle the LED's on and off.
All switch pads must be pressed within 5 minutes for this test to pass. **PA** will be displayed for five (5) seconds once all switch pads have been pressed and this test is completed. Following 10 seconds of inactivity at any point, the test will exit without any display. The ***Power Off*** switch pad must be pressed twice within thirty (30) seconds to cancel this test

Refer to Technical Data Sheet for Detailed Instructions

Slide 108



Diagnostic Codes
Access Diagnostic Codes by entering the Service Mode and pressing **Wrinkle Prevent**. A **d** will be displayed.
Rotate the Cycle Selector Knob in either direction to step through the list of codes one code at a time.

Refer to Technical Data Sheet for Detailed Instructions

Be Aware, Be Alert
Always work safely.
On the Job, On the Road, In the Home
Every Time, All the Time

MAYTAG Training Services