

Multimedia
Enhanced

MAYTAG

TECHNICAL MANUAL

Maytag Dryer



W11576955A

FOR SERVICE TECHNICIAN'S USE ONLY

DANGER



Electrical Shock Hazard

Only authorized technicians should perform diagnostic voltage measurements. After performing voltage measurements, disconnect power before servicing. Failure to follow these instructions can result in death or electrical shock.

WARNING



Electrical Shock Hazard

Disconnect power before servicing. Replace all parts and panels before operating. Failure to do so can result in death or electrical shock.

WARNING



Explosion Hazard

Keep flammable materials and vapors, such as gasoline, away from dryer.

Place dryer at least 18 inches (450 mm) above the floor for a garage installation.

Failure to do so can result in death, explosion, or fire.

Voltage Measurement Safety Information

When performing live voltage measurements, you must do the following:

- Verify the controls are in the off position so that the appliance does not start when energized.
- Allow enough space to perform the voltage measurements without obstructions.
- Keep other people a safe distance away from the appliance to prevent potential injury.
- Always use the proper testing equipment.
- After voltage measurements, always disconnect power before servicing.

IMPORTANT: Electrostatic Discharge (ESD) Sensitive Electronics

ESD problems are present everywhere. Most people begin to feel an ESD discharge at approximately 3000 V. It takes as little as 10 V to destroy damage or weaken the main control assembly. The new main control assembly may appear to work well after repair is finished, but a malfunction may occur at a later date due to ESD stress.

- Use an anti-static wrist strap. Connect wrist strap to green earth connection point or unpainted metal in the appliance.

- OR -

Touch your finger repeatedly to a green ground connection point or unpainted metal in the appliance.

- Before removing the part from its package, touch the anti-static bag to a green ground connection point or unpainted metal in the appliance.
- Avoid touching electronic parts or terminal contacts; handle electronic control assembly by edges only.
- When repackaging main control assembly in anti-static bag, observe above instructions.

IMPORTANT SAFETY NOTICE — "For Technicians only"

This service data sheet is intended for use by persons having electrical, electronic, and mechanical experience and knowledge at a level generally considered acceptable in the appliance repair trade. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible, nor assume any liability for injury or damage of any kind arising from the use of this data sheet.

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Contents

General Information	4-4	Component Access	31-44
Cryogenic safety	4-5	Removing the door assembly	31
Private specifications	4-6	Removing the outside left and top panel	32
Model number identification	4-6	Removing the auxiliary control unit (ACU)	33
Model number and serial number and location	4-6	Replacing the door switch and front panel	34
Tool sheet, caution	4-6	Replacing the trim and foot panel panels	35
Diagnostic Gauge	10-15	Replacing the belt, tray, and rear cover	36
Diagnostic probe	11	Replacing the side mirror	37
Service diagnostic mode	11	Replacing the external foot and side panel mirror	38
Screen activation & encoder test	12	Replacing the rear panel, high-limit thermistor, and	39
Service test mode	12	Thermal switch (TDS) (see Tools only)	40
Service test mode limit	12	Replacing the external draft (EDC) motor and fan thermistor	41
Software version display	12	(See Tools only)	42
Service parameter codes	12	Replacing the hand sensor and gear cover assembly	43
Printout printing	16-20	(See Tools only)	44
Printout printing probe	17	Replacing the motorized access panel motor drive assembly (MDA)	45
Printout printing test	18	Replacing the shunt type assembly	46
Stop closure	26		
Timing deposit	27		
Components sections	28		

Section 1: GENERAL INFORMATION

This section provides general safety, parts, and information for the Maytag 7.0 cu ft Electric Gas Dryer.

- Dryer Safety
- Product Specifications
- Product Features
- Model Number Information
- Model Number and Serial Number Label Location
- Tech Sheet Location

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DRYER SAFETY

Your safety and the safety of others are very important.

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is the safety alert symbol.

This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will follow the safety alert symbol and either the word "DANGER" or "WARNING". These words mean:

A DANGER

You can be killed or seriously injured if you don't immediately follow instructions.

A WARNING

You can be killed or seriously injured if you don't follow instructions.

An safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what can happen if the instructions are not followed.

IMPORTANT SAFETY INSTRUCTIONS

- Statement:** To reduce the risk of fire, electric shock, or injury to persons when using your appliance, follow basic precautions, including the following:
- Read all instructions before using the appliance.
 - Do not dry articles that have been previously cleaned in, washed in, soaked in, or soaked with gasoline, dry-cleaning solvents, or other flammable or explosive substances, as they give off vapors that could ignite or explode.
 - Do not allow children to play on or in the appliance. Close supervision of children is necessary when the appliance is used near children.
 - Before the appliance is removed from service or discarded, remove the door to the drying compartment.
 - Do not reach into the appliance if the motor is running.
 - Do not install or store the appliance where it will be exposed to the weather.
 - Do not tamper with controls.
 - Do not repair or replace any part of the appliance or attempt any servicing unless specifically recommended in the user instructions, instructions of established user-repair institutions and you understand and have the skills to carry out.
 - Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
 - Do not use heat to dry articles containing foam rubber or similar low-flame-limit materials.
 - Clean the screen before or after each load.
 - Keep areas around the exhaust opening and adjacent surrounding areas free from the accumulation of lint, dust, and dirt.
 - The interior of the appliance and exhaust duct should be cleaned periodically by qualified service personnel.
 - Do not place items subject to cooking oils in your dryer. Items coated with cooking oil may contribute to a chemical reaction that could cause a load to exceed the %G reduction of the due to contaminated loads—the fuel cell of a tumble dryer cycle collects without heat, (self-dry action). Avoid exceeding a 1-hour dryer before the end of the drying cycle unless all items are quickly removed and vented out so that the fuel cell does not.
 - Do not use replacement parts that have not been recommended by the manufacturer. (i.e. parts made at home using a 3D printer)
 - See the installation instructions for grounding requirements and information.

SAVE THESE INSTRUCTIONS

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PRODUCT SPECIFICATIONS

Maytag 7.0 cu ft Electric/Gas Dryer

Dimensions	
Capacity cu ft.	7
Depth With Door Open 90 Degrees (In. inches)	32 1/4
Depth (In. inches)	28 1/2
Height to Top Of Cabinet (In. inches)	38 1/2
Height (In. inches)	42 1/4
Maximum Height (In. inches)	42 1/4
Minimum Height (In. inches)	14 1/2
Width (In. inches)	29
Options	
Color Dryer	White (Standard)
Polyisoprene Door	No
Controls	
Automatic Temperature Control	Yes
Control Location	Rear Console
Control Type	Knob and Button
Detergent Dispenser Type	Top
Feedback Gravity Sensors	Sense: Wet, Clean, Dose
Start at Cycle Selection	Yes
Features	
Automated Dry Control	No
LF Defrost	Yes
Measure Sensor	Yes
Sound Package	No
Cycles	
Number of Dryer Types	11
Selection of Drying Cycles	All Dry; Baby items; Delicates; Heavy Duty; Less Dry; More Dry; Normal; Quick Dry; Timed Dry; Towels; Uniform Control
Options	
Dryer Options Selections	Child Safety, Detergent Dispenser, Timed Dry; Without Preheat, Pet Pro
Number of Dryer Options	5
Dryer Options	
Number of Drying Levels	4
Performance Selection	High, Low, Both Low, Medium
Drum	
Number of Drumless Levels	2
Selection of Drying Levels	More, Less, Normal
Venting	
Maximum Vent Length (ft.)	64
Venting Direction	Front Only
Valves	No

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Options	
Sham Muffler	Power/Cost
Hanging Basket (87L) (for Gas Dryer/Dry)	32.500
Interior Light	Per
Lint Screen Latches	7.00
Motor Horsepower	1/3 HP
Dimensions	
Fuel Type	Electric or Gas
Electrical	
Ampere	15 or 30A
Frequency (Hz)	60 Hz
Power Cost Includes	Yes (for Gas Models only)
Voltage	120 V (Gas) or 240 V (Electric Only)

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MODEL NUMBER NOMENCLATURE

Maytag® Model Number Nomenclature

MODEL NUMBER

M

E

D

6500

M

BK

Stand:

M = Maytag

Fuel:

E = Electricity

G = Gas

Product Type:

D = Dryer

W = Washer

Feature Set:

6500 = Higher the number more features

are available

Year of Launch:

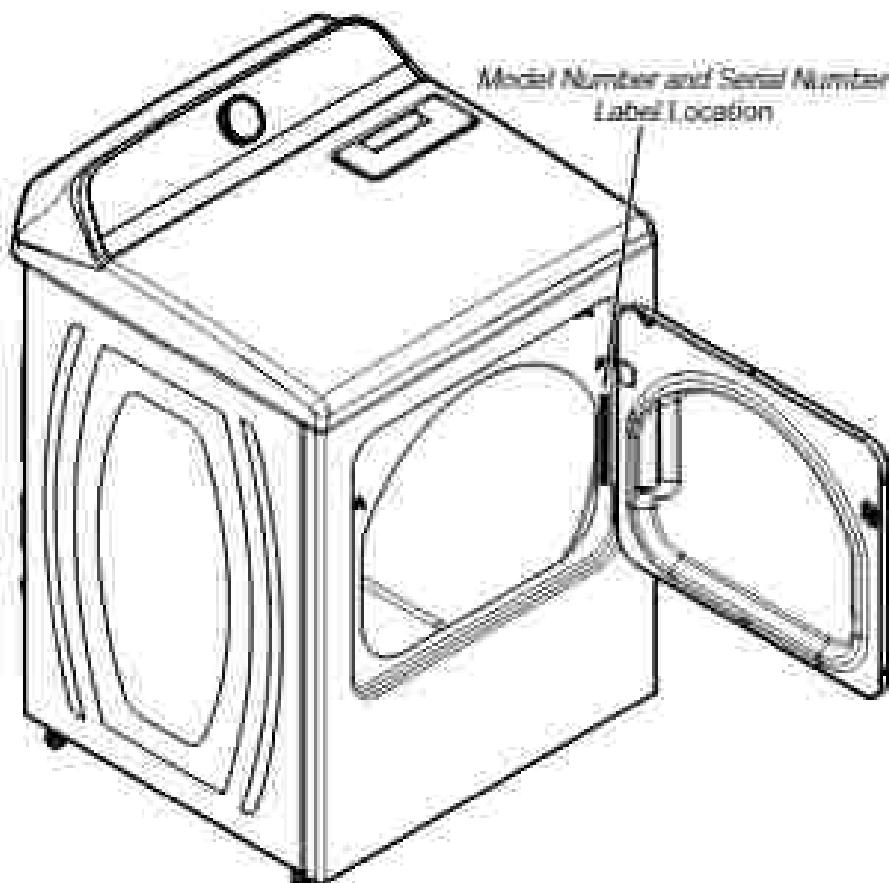
M = 2002

Color Code:

BK = Black/Black

W = White

MODEL NUMBER AND SERIAL NUMBER LABEL LOCATION



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TECH SHEET LOCATION



Section 2: DIAGNOSTIC GUIDE

This section provides Diagnostic guides for the Maytag 7.0 cu ft Electric Gas Dryer.

- Diagnostic Mode
- Service Diagnostic Mode
- Safety Activation & Encoder Test
- Service Test Mode
- Service Test Mode Chart
- Between Washout Display
- Service Fault Error Checks

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DIAGNOSTIC GUIDE

Before servicing, please do the following:

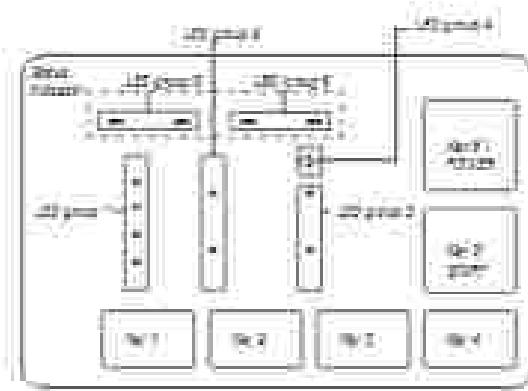
- Make sure there is power at the wall outlet.
- Has a household fuse blown or circuit breaker tripped? Use a regular test light to inform customer that a breaker has tripped.
- Make sure the dryer vent and the dryer are clear of lint and obstructions.
- All tests should be made with a VOM (dc-volt-ohm-milliammeter) or DMM (digital multimeter), having a resolution of 20,000 Ω per 100 mV or better.
- Resistance checks must be made with dryer unplugged or power disconnected.
- **IMPORTANT:** Avoid touching metal conductors when checking harness connections as the probes may damage the connectors even if service gloves are worn.
- Check all terminals and connections before replacing components. Look for connectors not fully seated, broken or loose wires and terminals, or insulation, or wires not crimped into connectors far enough to engage metal tabs.
- A primary cause of a dryer not functioning is corrosion or contamination on connectors. Use an ohmmeter to check for continuity across suspected connections.
- To properly check voltage, complete the following steps:
 1. Unplug the dryer or disconnect power.
 2. Check voltage measurement assignment to green conductors.
 3. Plug in dryer or reconnect power and verify voltage reading.
 4. Always unplug dryer or disconnect power after completing voltage measurements.

SERVICE DIAGNOSTIC MODE

These tests allow service personnel to test and verify all aspects of the respective control electronics. You may want to do a quick and overall checkup of the dryer with these tests before going to specific troubleshooting tests.

ACTIVATING SERVICE DIAGNOSTIC MODE:

1. Be sure the dryer is in standby mode connected with AC Line off.
2. Press and hold the 1st button (Select Power), 2nd (Start), and follow the steps below, using the same buttons (momentary the buttons and the order that the buttons were pressed) within 8 seconds:
 - Press and Release the 1st selected button.
 - Press and Release the 2nd selected button.
 - Press and Release the 3rd selected button.
 - Repeat this 3 button sequence 2 more times.
3. If the test mode has been entered successfully, all indicators on the front panel will be illuminated for 1 second then will be turned OFF. Alternately, if there are no seven test pages, the 1st three indicators (Sense, Vent, Cool, and Done) will blink two times and then all the indicators will be turned OFF.
NOTE: The Service Diagnostic mode will time out after 8 minutes of user inactivity, or shutdown if the power supply is removed from the dryer.



SERVICE DIAGNOSTIC MENU TABLE

	Button Press	Function Behavior
1st Button	- Momentary press:	- Enter Button Activation & Encoder test
	- Press and hold for 5 seconds	- Extra Service Diagnostic
2nd Button	- Momentary press	- Activates Service Test mode
	- Press and hold for 5 seconds	- Software Version Display
3rd Button	- Momentary press	- Displays Next Error Code
	- Press and hold for 5 seconds	- Clears the Error Codes

* See "Activating Service Diagnostic Mode" to activate these menus.

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READING BINARY CODES

- LED ON means 1.
- LED OFF means 0.
- The status bar will show 00, to access a binary code.
- The first LED showing will represent the thousands digit. (Units LED/LCD will be 0).
- The second LED's binary will represent the 5-number and the Units LED/LCD will be 0.

LED group 5				LED group 6				
0	1	2	3	0	1	2	3	Value
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	1	1
0	0	0	0	0	1	0	0	2
0	0	0	0	0	1	0	1	3
0	0	0	0	1	0	0	0	4
0	0	0	0	1	0	0	1	5
0	0	0	0	1	0	1	0	6
0	0	0	0	1	0	1	1	7
0	0	0	0	1	0	1	2	8
0	0	0	0	1	0	1	3	9

Setting the 00000000

Sequence P20:

1. Cook and above are ON, while LEDs are ON
2. All are OFF
3. Cook is ON, while LED is OFF
4. All are OFF
5. Cook is OFF

Frame Number	Status LED				Mode LED	Fault Error code	Frame Timing (second)
1	0	1	2	3	0		
2	0	0	0	0	0	P2	2.2
3	0	0	0	0	0		2.2
4	0	0	0	0	0	E9	2.2
							1

Result:

Unsuccessful Attempts

- If any fault diagnostic mode is unsuccessful, refer to the following indications and actions:
- Indication:** None of the LEDs will turn on.
- Action:** Turn the control assembly off by pressing the POWER button or holding the user and secondary keys.
- If a LED turns on after pressing the POWER button or holding the user and secondary keys again, turn the control assembly off and then turn it back on again. Alternatively, you can turn on a light switch to enter holding POWER and START. This will return the processor back to enter into Diagnostic mode, then turn on a light switch in the room. Press the held.
 - If no LED's come on after pressing the user and secondary keys and the Power Check (page 32).

Activation with Saved Fault Codes

If there is a saved fault code, it will be turned on the screen. Refer to the Fault Error Codes table on page 32 for recommended troubleshooting. If there is no saved fault code, turn the user and secondary keys.

BUTTON ACTIVATION & ENCODER TEST

NOTE: The Service Diagnostic mode must be activated before entering the Button Activation & Encoder Test. See procedure on page 33.

Entry Procedure

Press and release the **00** button used to activate Service Diagnostic mode. The following test will be available:

Diagnostic: Button Activation & Encoder Test

The Encoder Test will be active immediately after successfully entering the Button Activation & Encoder Test.

- When the Encoder Test starts, the KET1 LED will be turned ON.
- Rotate the knob DOWNSIDE from the bottom position until a full loop rotation is completed. Notice that the LEDs will turn ON/OFF until the knob is rotated. After the Encoder Test is completed, all the LEDs will be turned ON and the Service Activation test will be active. Pressing each button will toggle ON/OFF its corresponding LED.
- Temperature LEDs will toggle ON/OFF with TEMP button.
- Time LEDs will toggle ON/OFF with TIME button.
- Color Buttons (in some models only) and White Control LEDs will toggle ON/OFF with OPTIC/DG button.
- SENSE LED will toggle ON/OFF with MUTE button.
- KET and COOL LEDs will toggle ON/OFF with START button.
- COOK and MUTE LEDs will toggle ON/OFF with POWER button.
- If user does not toggle ON/OFF after pressing buttons and pressing the TIME selector knob, go to Test #B (HMI) [page 34](#).

Exit Procedure

To exit Button Activation & Encoder Test, press and hold the **00** used to activate Service Diagnostic mode.

SERVICE TEST MODE

NOTE: The Service Diagnostic mode must be activated before entering Service Test Mode. See procedure on [page 33](#).

NOTE: If, during power, the user presses the POWER button or opens the door when not requested by the test sequence during Service Test mode, the dryer goes to Standby mode.

NOTE: Door must be closed to perform test. Dryer must be cool before test to run correctly.

Active Fault Code Display in Service Test Mode

If the display shows testing will in Service Test mode, it is displaying an active fault code. Active fault codes are codes that are currently present. Only one active fault code can be displayed at a time.

Entry Procedure

To enter Service Test Mode, press and release the **00** button used to activate the Service Diagnostic mode, then press and release the START button. All LEDs will turn ON indicating that the Service Test Mode entry was successful.

Perform All Tests: Run all tests indicated in the chart on [page 33](#).

Exit Procedure

When the test is complete, press the POWER button to exit Service test mode and return to Standby mode.

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SERVICE TEST MODE CHART

Step#	Action	Component	User Interface Response
1.	User enters Service test mode through Service Diagnostics by pressing increasing the % button twice in any sequence.	Door must be closed	All LEDs are OFF and machine is waiting for START switch to be pressed.
2.	Press and release START button to begin the test.	Motor ON Heater/gas valve ON Water valve ON (Steam models only)	-
3.	All LEDs ON	Motor ON Heater/gas valve ON Water valve ON (Steam models only)	1. All LEDs are On.
4.	Single Steam Activation test: • Press and release TEMPERATURE button.	Motor ON Heater/gas valve ON Water valve ON (Steam models only)	1. All indicators are ON at Hill until waiting for the TEMPERATURE button to be pressed. 2. After the TEMPERATURE button is pressed, all indicators at the Hill are turned OFF.
5.	Two-stage heat test: 1. Press and release TEMPERATURE button. 2. After the TEMPERATURE button is pressed, the heating or gas valve will be turned OFF. Once off, it will be turned ON.	Motor ON Heater/gas valve ON Water valve ON (Steam models only)	1. The SERVICE indicator is turned ON at Hill and machine is waiting for the TEMPERATURE button to be pressed. 2. After the TEMPERATURE button is pressed the HEAT indicators is turned ON.
6.	Door test: 1. Open the door. 2. After door is opened all LEDs will be turned OFF. Once off, they will be turned ON.	Motor ON Water valve ON (Steam models only)	1. The SERVICE and HEAT indicators are turned ON at Hill and the machine is waiting for the user to open the door. 2. After the door is opened, the COOL indicator is turned ON.
7.	Measure stage: • User touches the heat measure sensor for 5 seconds.	Door open	1. The SERVICE and HEAT and COOL indicators are turned ON at Hill and the machine is waiting for the user to touch the measure stage.
8.	Service test finishes.	-	If all sequences completed the Hill will turn ON SERVICE, Wet, Cool, Damp, SO, DO, CO, and HS indicators and the end of cycle sound is played.

NOTE: Electric dryer performance is optimized for 2-phase, 340 VAC service. If compliant's mode regarding electric dryer performance and the L1 to L2 voltage is ~ 230 VAC, dryer may be connected to a 3-phase service with reduced voltage that will decrease dryer performance. If a fault is detected in anyone in the test cycle, the service test cycle will stop and display the corresponding error code.

FOR SERVICE TECHNICIAN'S USE ONLY

SOFTWARE VERSION DISPLAY

NOTE: The Software Version Display mode will run for about 5 minutes of user inactivity and return to standby mode.

Entry Procedure:

To enter Service Version Display, press and hold the 2nd button used to activate the Service Diagnostic mode for 5 seconds. Upon entry, the display will automatically cycle through the following information:

Component	Identifer	Value display
ACU Application Firmware	1	XXYYZZ
HCU Application Firmware	2	XXYYZZ
Setting File	3	P01 P02 P03 P04 P05 P06 P07 P08

- When the 2nd digit is displayed, the MUTE LED will be turned ON.
- When the 3rd digits are displayed, the MUTE LED will be turned OFF.
- Up to five Fault/Error codes may be stored. Additional presses of the 3rd button will cause the system to display the next fault code. If there are no fault codes saved, the LEDs will blink two times for each 3rd button press.
- When 01, 02, or 03 corresponds to the 3 sets of 2 digit numbers that describe a software version and P01, P02, P03, P04, P05, P06, P07, P08 is the 8 digit settings file number.
- The ACU, HCU and Settings file information will be displayed in the LEDs (Sense, Net, Gen, and Done) in binary format. Consider the first LED, the most significant bit.
- The identifier value of the component identifier will be displayed in the TEMPERATURE LEDs in binary format. Consider High LED from top to the most significant bit.
(For example: Extra Low LED turns on, then the identifier is 1. Extra Low and Low LED turns on, then the identifier is 2.)
- LED ON = 1, LED OFF = 0

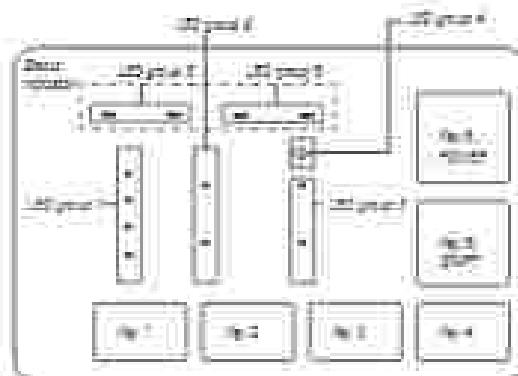
Exit Procedure:

Pressing the POWER button will exit Software Version Display and return back to Standby mode.

FAULT/ERROR CODES:

Refer to service task entry codes on [page 15](#).

Fault/Error Code Display Method



- Fault codes are composed by a Gen and a Net. The Gen has two digits and indicates the selected System Category. The Net has two digits and indicates the selected Component System.
- The fault codes are displayed in binary format at the LEDs (Sense, Net, Gen, and Done). When the LED is ON it represents a binary 1 and when the LED is OFF it represents a binary 0.

- When the 2nd digit is displayed, the MUTE LED will be turned ON.
- When the 3rd digits are displayed, the MUTE LED will be turned OFF.
- Up to five Fault/Error codes may be stored. Additional presses of the 3rd button will cause the system to display the next fault code. If there are no fault codes saved, the LEDs will blink two times for each 3rd button press.

Accessing Through Saved Fault/Error Codes:

Procedure for accessing through saved fault codes:

Press and release 3rd button used to access service diagnostics	Most recent fault codes displayed
Power	Second most recent fault code is displayed
Power	Third most recent fault code is displayed
Power	Fourth most recent fault code is displayed
Power	Fifth most recent fault code is displayed
Power	Back to the most recent fault code

Cleaning Fault Codes:

To clear stored fault codes, enter Service Diagnostic mode. Then press and hold the 3rd button used to enter Service Diagnostic mode for 5 seconds. Once the stored fault codes are successfully erased, the LEDs will blink two times.

ENTERING SERVICE DIAGNOSTIC MODE

Use below method to enter Diagnostic mode:

- Pressing the POWER button twice.

FOR SERVICE TECHNICIAN'S USE ONLY

SERVICE FAULT/ERROR CODES

CODE	DESCRIPTION	EXPLANATION AND RECOMMENDED PROCEDURE
F1E1	Motor or Heater Fault	<p>1. Indicates the motor circuit is open or shorted. See Test #3, Motor Circuit page 12.</p> <p>2. Indicates the heat system is open or shorted. F1E1 fault for heat system will only appear when in Service Diagnostic mode. See Test #4, Heat System page 12.</p>
F2E1	HMI stuck button	Indicates a stuck button (depressed for over 25 seconds). See Test #6, HMI page 12 .
F3E1	Biasuit Thermostat Open/Shorted	Indicates that the biasuit thermostat is open or shorted. If the Open/Shorted temperature (from below 167° F/75° C) (> 86° K/0°), the biasuit thermostat is open. If the temperature is above 252° F/122° C (< 50° K/0°), the biasuit thermostat has shorted. May occur if the J14 connector is not plugged into the ACU. See Test #4, Thermistor page 12 .
F3E2	Misture Sensor Shorted	Indicates the moisture sensor (A10) is open or shorted. This fault code will only appear when in the Service Diagnostic mode. See Test #3, Misture Sensor page 12 .
F4E1	Communication Error: HMI and ACU	Communication between the ACU and HMI has not been detected. <ul style="list-style-type: none"> - Wrong type of dissolved power. - Check the network settings and connections between the ACU and HMI. - Check AC and DC applied. Test #1: ACU Power Check page 12. - Replace the HMI. - Replace the ACU.

Section 3: TROUBLESHOOTING

This section provides Troubleshooting guide for the Maytag T 600 T Series Gas Dryer.

- Troubleshooting Guide
- Troubleshooting Tips
- Ship Notice
- Wiring Diagram
- Component Locations

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TROUBLESHOOTING GUIDE

PROBLEM	POSSIBLE CAUSE	DIAGNOSIS & TESTS
WILL NOT POWER UP - No coil noise - No water noise - No LED's or display	No power to dryer.	Check power at circuit breaker, circuit breaker fuse, or junction box connections.
	Connection problem between AC plug and dryer.	See Test #2: Dryer Connections, page 13.
	Connection problem between ACU and HCU.	Check connections and terminal continuity between ACU and HCU.
	Power source component or terminal connections.	Test #1: ACU Power Check, page 13.
WILL NOT START CYCLE - No response when Start button is pressed.	Door not fully closed or sealing the door latch.	Be sure the door is completely closed, then press and hold the START button.
	Door switch problem.	See Test #3: Door Latch, page 13.
	Drive belt problem.	See Test #5: Motor Circuit, page 23.
	Thermal Plug / Water sensor.	See Test #7: Motor Circuit, page 23.
	Hill problem.	See Test #8: Hill, page 23.
	ACU problem.	Test #1: ACU Power Check, page 13.
WILL NOT SHUT OFF WHEN EXPECTED	Door ajar.	Check limb position and temperature. Clean if necessary.
	Check the Start/Pause button.	Perform button Activation & Encoder Test.
	Moisture Sensor problem.	See Test #3: Moisture Sensor, page 23.
	Thermal plug.	See Test #4: Thermal Plug, page 23.
	Hill problem.	See Test #8: Hill, page 23.
CLOTHES DON'T DRY CORRECTLY	Overseased load option.	Refer customer to "Load and Care Guide."
	Hill problem.	See Test #8: Hill, page 23.
DRYER WILL NOT DRY	Drive belt problem.	See Test #5: Motor Circuit, page 23.
	Thermal Plug	See Test #4: Thermal Plug, page 23.
	Other switch problem.	See Test #7: Motor Circuit, page 23.
	Motor problem.	See Test #5: Motor Circuit, page 23.
	ACU problem.	Test #1: ACU Power Check, page 13.
WILL NOT HEAT	Check insulation.	Verify proper dryer venting.
	Check for L1 and L2.	See Test #2: L1 and L2 Connections, page 13.
	Heater system malfunction or poor flame coil.	See Test #4: Heat System, page 23.
	ACU problem.	Test #1: ACU Power Check, page 13.
HEATS IN ALL CYCLES	Water cut off.	See Test #4: Heat System, page 23.
	Insulation, etc.	See Test #4: Heat System, page 23.
	Heater system problem.	See Test #4: Heat System, page 23.
SHUTS OFF BEFORE DRYING; SEE DRY	Dry Cycle selection.	Start Heat Dry cycle to release dryness sensor in the Auto cycle. Monitor temperature and time for three cycles.
	Unit过于 full.	Clean if necessary. Refer customer to "Load and Care Guide."
	Dryer vent clogged.	Clean if necessary. Refer customer to "Load and Care Guide."
	Moisture Sensor problem.	See Test #3: Moisture Sensor, page 23.
WATER VALVE NOT OPERATING (ON TIME MODES)	Clean dryness sensor.	Refer customer to "Load and Care Guide."
	No water to valve.	Verify water supply is turned on.
	No water from valve or nozzle bonded or valve seize causing.	See Test #8: Water Valve, page 23.
WATER LEAKING FROM DRYER (ON TIME MODES)	Leaky or frozen water valve.	See Test #8: Water Valve, page 23.
	One more water being dispensed during steam cycle.	

FOR SERVICE TECHNICIAN'S USE ONLY

TROUBLESHOOTING TESTS

IMPORTANT: The following procedures may require the use of special probes to measure voltage. Failure to use special probes will damage the test points.

TEST #1: ACU Power Check

This test is used to determine if power is present at the machine control electronics. This test assumes that proper voltage is present at the outlet.

1. Verify that the green LED on the ACU is lit and running after the dryer is turned on.
2. Unplug dryer or disconnect power.
3. Check the appropriate line voltage with the outlet selector (Electric 2-pole, 208 VAC/240 VAC/240 V-press, or 120 VAC/press).
 - If line voltage is present, go to step 4.
 - If line voltage is not present, check for tripped circuit breaker or blown household fuse. If GFI circuit breaker is tripped, have customer check with quantity distributor.
4. Remove screws to access the machine electronics.
5. ACU VAC ~ With voltmeter set to AC, connect black probe to ACU 27-4 (L1) and red probe to 27-5 (L1). (See Figure 1.) Plug in dryer or disconnect power.
 - If 120 VAC is present, unplug dryer or disconnect power and go to step 6.
 - If 120 VAC is not present, unplug dryer or disconnect power and perform TEST #2: Supply Continuity. [page 13](#)
6. ACU +5 VDC — With voltmeter set to DC, unplug connector J2 from the ACU and connect black probe to ACU 25-4 (ground) and red probe to 25-2 (+5VDC). Plug in dryer or disconnect power.
 - If +5 VDC is present, unplug dryer or disconnect power and go to step 9.
 - If +5 VDC is not present, go to step 7.

7. Unplug dryer or disconnect power. Unplug J4 from the ACU. Plug in the dryer or disconnect power and repeat step 6.
 - If +5 VDC remains, the thermistor has shorted. Disassemble the unit and see TEST #3A. [page 22](#)
 - If +5 VDC is not present, go to step 8.
8. Unplug dryer or disconnect power. Reconnect J4 to the ACU and unplug J2 from the ACU. Plug in dryer or disconnect power and repeat step 6. Perform voltage check (check header J2 on ACU, selected pins 2, 4, 6, 8 & 10 NOT SHORT TOGETHER).
 - If +5 VDC is still missing, unplug dryer or disconnect power and replace the ACU.
 - If +5 VDC remains, unplug dryer or disconnect power and check harnesses and connections between the ACU and HMI. If appropriate, replace the HMI.
9. ACU +12VDC ~ With voltmeter set to DC, connect black probe to ACU 25-4 (ground) and red probe to 25-1 (+12VDC). Plug in dryer or disconnect power.
 - If +12VDC is present, go to step 11.
 - If +12VDC is not present, go to step 10.
10. Unplug dryer or disconnect power. Unplug connector J2 from the ACU. Perform voltage check (check header J2 on ACU, selected pins 2, 4, 6, 8 & 10 NOT SHORT TOGETHER).
 - If +12VDC is still missing, unplug dryer or disconnect power and replace the ACU.
 - If +12VDC remains, unplug dryer or disconnect power and check harnesses and connections between the ACU and HMI. If appropriate, replace the HMI.
11. Unplug dryer or disconnect power.
12. Reassemble all parts and panels.
13. Perform steps under "Service Test Mode". [page 12](#) to verify repair.

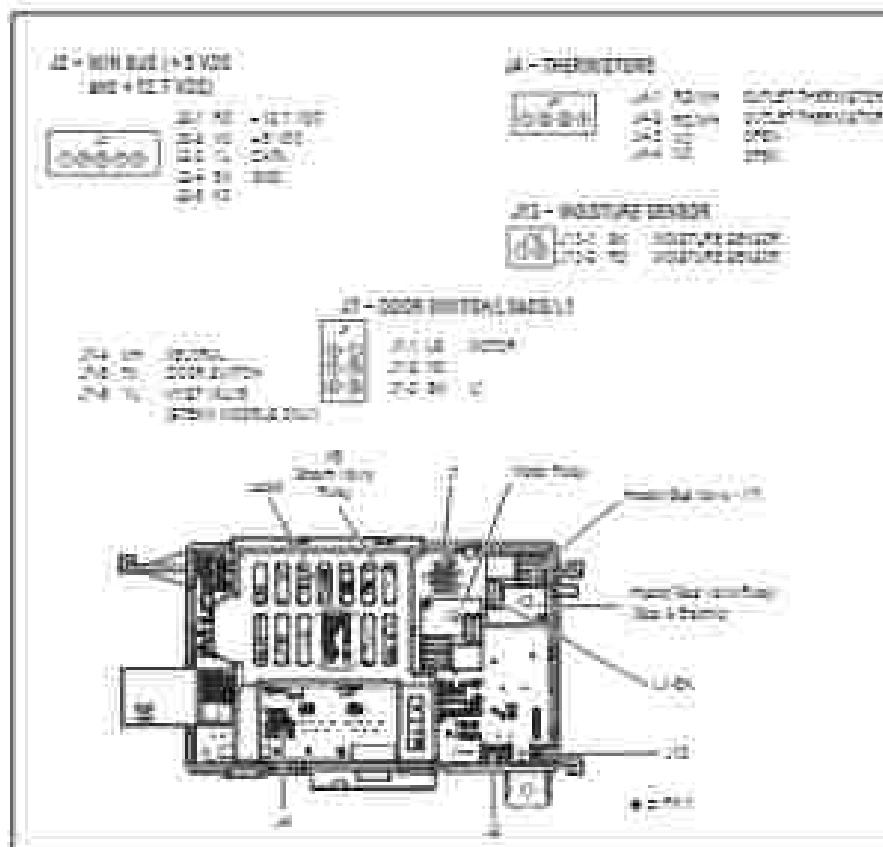


Figure 1 - ACU Connections and Pinouts.

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TEST #2: Supply Connections

This test assumes that proper voltage is present at the outlet, and for U.S. installations, a visual inspection indicates that the power cord is securely fastened to the terminal block (electric dryer) or wire harness connection (gas dryer).

ELECTRIC DRYER (U.S. Installations)

1. Unplug dryer or disconnect power.
2. Remove the cover plate from the top center portion of the back of the dryer. See figure 2.

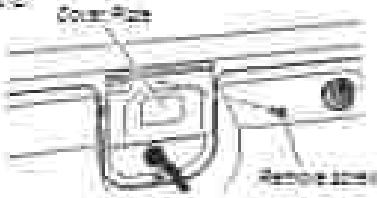


Figure 2 - Remove the cover plate.

3. With an ohmmeter, check for continuity between the neutral (N) terminal of the plug and the center terminal on the terminal block. See figure 2c.
- If there is no continuity, replace the power cord and test the dryer.
- If there is continuity, go to step 4.
4. In a similar way, check which terminal of the plug is connected to the left-most contact on the terminal block and make a note of it. This will be L1 (check wire) in the wiring diagram. See figure 2d.
- If the terminal is L1, go to step 5.
- If neither of the plug terminals have continuity with the left-most contact of the terminal block, replace the power cord and retest dryer.

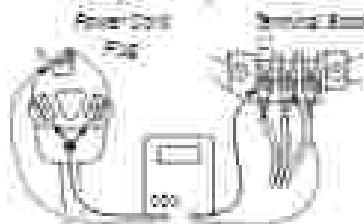


Figure 2c - Plug-to-terminal connections for electric dryer.

5. Assess the machine performance without reconnecting any wiring to the ACU.
6. With an ohmmeter, check for continuity between the L1 terminal of the plug (from in step 4) and L1 (check wire) on the ACU.
- If there is continuity, go to step 7.
- If there is no continuity, check that wires to the terminal block are mechanically secure. If not, replace the wire harness and test the dryer.
7. Check for continuity between the neutral (N) terminal of the plug and L2 (check wire) on the ACU.
- If there is continuity, go to step 8.
- If there is no continuity, and the mechanical connections of the wire are secure, replace the wire harness.
8. With an ohmmeter, check which terminal of the plug is connected to the right-most contact on the terminal block and make a note of it. This will be L2 (check wire) in the wiring diagram. See figure 2e.
- When this is found, go to step 9.
- If neither of the plug terminals have continuity with the right-most contact of the terminal block, replace the power cord and retest dryer.



Figure 2e - Plug-to-terminal connections for electric dryer.

9. Check the wiring-acq continuity from the L2 terminal of the terminal block and the 2nd terminal in the white connector from the ACU. See figure 7 on page 11. Also, locate these measurement points by referring to the appropriate wiring diagram (See fig. C on page 43).
- If there is continuity, go to step 10.
- If there is no continuity, check that wires to the terminal block are mechanically secure. If not, replace the wire harness and test the dryer.

10. Visually check the all connectors are fully inserted into the ACU.

11. Visually check the all connectors are fully inserted into the HCU.

12. Reassemble all parts and panels.

13. Plug in dryer or reconnect power.

14. Perform steps under "Service Test Mode" page 11 to verify repair.

ELECTRIC DRYER (Canadian installations)

1. Unplug dryer or disconnect power.
2. Remove the cover plate from the top center portion of the back of the dryer. See figure 2.
3. Assess the machine performance without disconnecting any wiring to the ACU.
4. With an ohmmeter, check the continuity from L1 and N plug terminals of the power cord to the terminals for L1 and N on the ACU. See figure 3c.

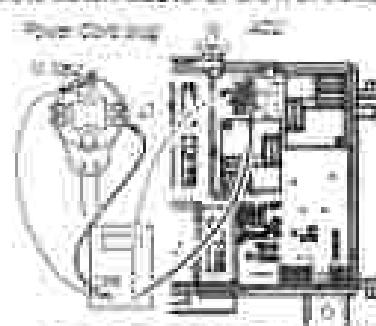


Figure 3c - Plug-to-terminal connections for electric dryer.

- If continuity exists on both connections, go to step 5.
- If no continuity is found, check the integrity of the connections of the power cord to the harness in the dryer, harness to the ACU, and the integrity of the power cord itself.
5. If it is necessary to replace the power cord, remove the retaining clip that secures the cord to the rear panel. Disconnect the cord from the rear harness and the ground wire from the rear panel, then pull out the power cord.
6. Visually check that all connectors are fully inserted into the ACU.
7. Visually check that all connectors are fully inserted into the HCU.
8. Reassemble all parts and panels.
9. Plug in dryer or reconnect power.
10. Perform steps under "Service Test Mode" page 11 to verify repair.

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GAS DRYER (U.S. and Canadian installations)

1. Unplug dryer or disconnect power.
2. Remove the cover plate from the top center portion of the back of the dryer. See figure 3.
3. Check that the power cord is firmly connected to the dryer's wire harness. See figure 4.

Power Cord



Figure 4 - Power cord-to-wire harness connection for gas dryer.

4. Access the machine documents without disconnecting the wiring to the ACU.
5. With an ohmmeter, check for continuity between the neutral (N) terminal at the plug and JT-3 (white wire) on the ACU. The left-hand side of figure 5 shows the position of the neutral terminal (N) on the power cord plug. See figure 1, page 12.
6. If there is continuity, go to step 6.
7. If there is no continuity, disconnect the white wire of the main harness from the power cord at the connector (located in figure 4). Test the continuity of the power cord neutral wire as described in figure 5. If an open circuit is made, replace the power cord. Otherwise, go to step 8.

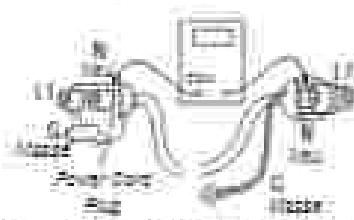


Figure 5 - Power cord terminals, gas dryer.

8. Use an ohmmeter to check for continuity between the JT-1 terminal at the plug and JT-3 (black wire) on the ACU.
9. If there is continuity, go to step 7.
10. If there is no continuity, check the continuity of the power cord in a manner similar to that described in figure 5, but for power cords JT-1 (red).
11. If an open circuit is found, replace the power cord. Otherwise, replace the main harness.
12. Visually check the ACU connectors are fully inserted into the ACU.
13. Visually check the HCU connectors are fully inserted into the HCU.
14. Reassemble all parts and panels.
15. Plug in dryer or reconnect power.
16. Perform steps under "Service Test Mode" (page 12) to verify repair.

TEST 28: Motor Circuit

This test will check the wiring to the motor and the motor itself. The following items are part of the motor system:

Part Name / Item	Test Step	Test Step
Drum set	✓	✓
Overdrive	✓	✓
Harness connection	✓	✓
Thermal fuse	✓	✓
Drive motor	✓	✓
Control board	✓	✓

Part Name / Item	Test Step	Test Step
Magnetic starters	✓	✓
Door switch Thermal Fuse	✓	✓

NOTE: Refer to step about on page 25 to diagnose this test.

1. Unplug dryer or disconnect power.
2. Remove doorplate to access the machine mechanics.
3. Check for loose, worn, or damaged drum set—spice as necessary.
4. Door Switch power can be measured by following procedure under TEST #7: Door Switch, page 24; however, if this was not done, the following can be performed instead applying power to the dryer. Connect an ohmmeter across ACU JT-3 (L), JT-2 (R) and JT-5 (green) wire.
5. With the door partially closed, the ohmmeter should indicate a closed circuit (0-2 Ω).
6. If not, check harness and connectors between ACU and door switch. If good, replace the door switch assembly.
7. Motor Circuit Check - Access the ACU and measure the resistance across JT-1 and JT-2.
8. If resistance across JT-1 and JT-2 is in the range of 1 to 8 Ω, the main circuit is acceptable. Replace the ACU.
9. Disconnect, continue to step 1.
10. Check the wiring and components in the path between these measurement points by referring to the appropriate wiring diagram (gas or electric) on pages 27 or 28.

NOTE: To access motor system components, remove the front panel. Check the thermal fuse. See TEST #48: Thermal Fuse, page 63.

ALL DRYERS: Continue with step 10 down to test the remaining components in the motor circuit.

11. Check the drive motor. Slowly remove the drum set from the ball-bearings pulley (green) using the pulley down. See figure 6.

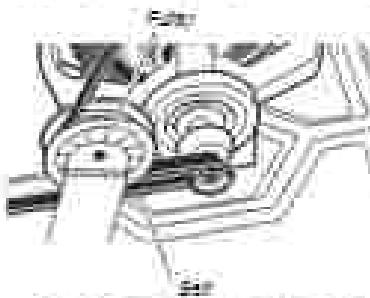


Figure 6 - Dryer removed drum set.

12. Remove the white connector from the end of the wire. See figure 7.

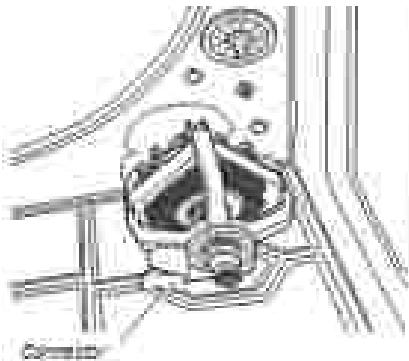


Figure 7 - Remove connector.

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5. Remove the heat resistor wire terminal from pin 5 of back drive motor switch.
 10. Using the step circuit on page 25, check for the requested values of the motor's Run and Start winding coils as shown in the following table.
- NOTE:** Run and Start winding coils must be checked at the motor.

Winding	Resistance in ohms	Contact Points of Measurement
RUN	0.5-1.5	Lo: blue wire in back at pin 4 and base copper wire terminal removed from pin 5 of back drive motor switch.
START	2-3.5	Lo: blue wire in back at pin 4 and base copper wire terminal on pin 5 of back drive motor switch.

- If the resistance at the motor is infinite, there is an open circuit between the motor and ACU. Check and repair the motor wiring harness as needed.
 - If the Run or Start winding resistance is much greater or less than the values listed in the table above, replace the motor.
11. Reassemble all parts and panels.
 12. Plug-in dryer or reconnect power.
 13. Perform steps under "Service Test Mode" [page 11](#) to verify repair.

TEST #4: Heat System

- This test is performed when one of the following symptoms occurs:
- ✓ Dryer does not heat.
 - ✓ Heat will not shut off.
- This test checks the components making up the heating circuit. The following items are part of the system:

Part/Function	Type	Condition
Harness connector	/	/
ACU	/	/
Thermal cut-off	/	/
Thermostat	/	/
High limit thermostat	/	/
Heat shield assembly	/	/
Gas valve assembly	/	/
Safety shutoff	/	/
Quench therm.	/	/
Water inlet assembly	/	/
Console electronics and housing assembly	/	/
Gas line	/	/

Dryer does not heat:

Locate the component using figures 8 and 9, page 23 and 24. To access heater system components, remove the back panel.

ELECTRIC DRYER ONLY

- Once Check Power complete "Service Test Mode" [page 11](#), to test the heating capacity turn ON and OFF the heater in the back box.
 - Heater relay can be turned ON and OFF by the ACU during the Service Test, then verify that L1 and L2 are present by checking Test #2: Safety Connections. Also check for anomalies in voltage at the source: 240 VAC (seems 2-phases) and 208 VAC (seems 3-phase).
1. Unplug dryer or disconnect power.
 2. Remove the back panel to access thermal components.
 3. Check motor—on the ACU, use an ohmmeter to measure the resistance from the blue wire terminal at the thermal cut-off to the red-white wire terminal at the High Limit.

- The resistance is about 10Ω go to step 5.
- If an open circuit is detected, go to step 4.

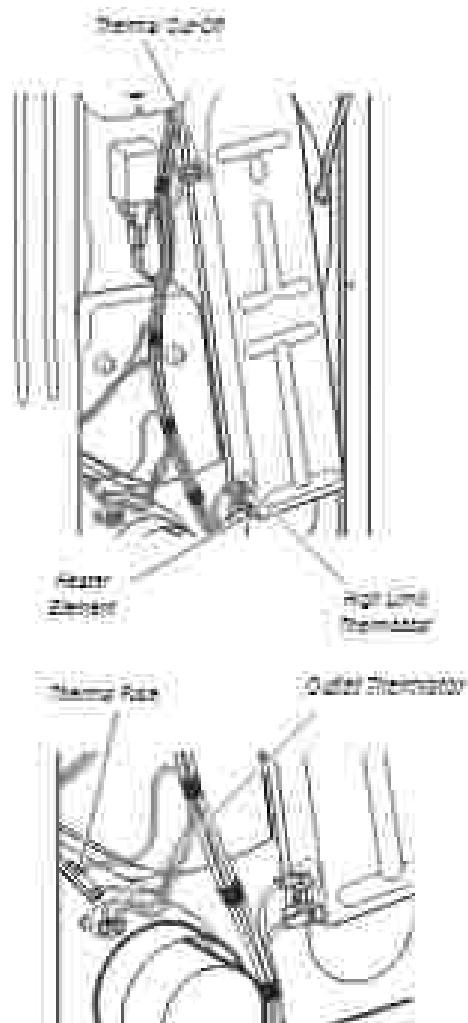


Figure 8 - Thermal components, electric dryer.

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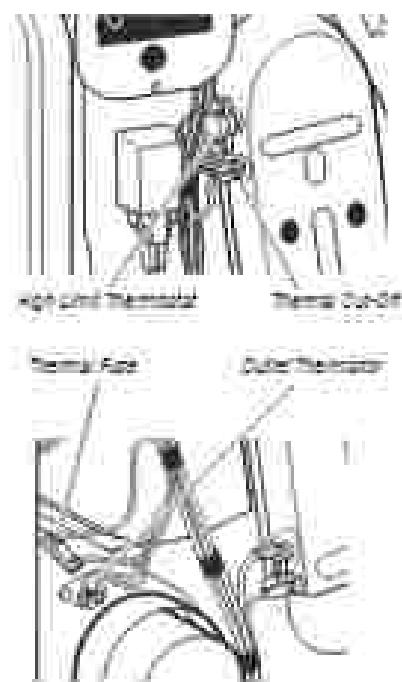


Figure 2 - Thermal components, gas dryer.

4. Visually check the wire connections to the thermal cut-off, high limit thermostat, and heater. If the connections look good, move to continuity across each of these components. Refer to step 6(a) on page 23.
- > Replace the heater if it is electrically open.
- > Replace both the thermal cut-off and high limit thermostat if either the thermal cut-off or the high limit thermostat is electrically open.
5. If no open circuit is detected, remove the J4 connector from the ACU and measure the cold thermistor resistance between J4-1 and J4-2 at the connector. Refer to "Outer Thermistor Resistance" table for temperatures and their associated values.
- > If the resistance corresponds to the temperature, the outer thermistor is good. Go to step 6.
- > If the thermistor resistance does not agree with the table, replace the outer thermistor.
6. If the preceding steps did not correct the problem and L1 and L2 were both sensed, replace the ACU. If L2 was not detected, isolate the component's fault before replacing the ACU. If the cartridge switch is damaged, replace the inner.
7. Reassemble all parts and panels.
8. Plug in dryer or reconnect power.
9. Perform steps under "Service Test Mode", [page 12](#), to verify repair.

GAS DRYER ONLY:

1. Verify the gas supply to the dryer is turned on.
2. Unplug dryer or disconnect power.
3. Perform TEST #4c: Thermo Cut-off on [page 23](#). If the thermal cut-off is OK, go to step 4.
4. Disconnect the high limit thermostat (see figure 2). Measure the continuity through it by connecting the meter probes to the black and blue machine terminals.
- > If probe is at open circuit, replace both the high limit thermostat and the thermal cut-off.
- > Otherwise, go to step 5.
5. Perform TEST #4d: See [WIRING](#) on [page 23](#). If the gas valve is OK, go to step 6.
6. If the preconditions did not correct the problem, suspect the solenoid switch before replacing the ACU.
7. Reassemble all parts and panels.

8. Plug in dryer or reconnect power.
9. Perform steps under "Service Test Mode", [page 12](#), to verify repair.

Heat will not shut off.

ALL DRYERS:

1. Unplug dryer or disconnect power.
2. Remove access panel to access the machine electronics.
3. Remove connector J4 from the ACU and measure the resistance between J4-1 and J4-2 at the connector. Refer to "Outer Thermistor Resistance" table for temperatures and their associated values.
- > If the resistance corresponds to the temperature, the outer thermistor is good.
- > If the thermistor resistance does not agree with the table, replace the outer thermistor.
4. Check heater coil for a short to ground (usually inside the heater box). Repair or replace if necessary.
5. Check heater relay output on the ACU with a voltmeter set to AC current. Connect to terminals 1 & 2 of relay 1A. Plug in dryer or reconnect power.
6. Perform steps under "Service Test Mode". When reaching Service Test step 5, measure the voltage across terminals 1 & 2.
- > If 120V no voltage is present, the relay is closed and heater is active. Go to step 7.
- > If voltage is present (~240 VAC for electric, ~120 VAC for gas), the relay is open or not working when commanded by the ACU. Replace ACU.
7. Under "Service Test Mode", go to Service test step 6: measure the voltage across terminals 1 & 2.
- > If voltage is present (~240 VAC for electric, ~120 VAC for gas), the relay is open and working when commanded by the ACU. Go to step 8.
- > If 120V no voltage is present, the relay is closed and heater is active. Without being commanded by the ACU. Replace ACU.
8. Unplug dryer or disconnect power.
9. Reassemble all parts and panels.
10. Plug in dryer or reconnect power.
11. Perform steps under "Service Test Mode", [page 12](#), to verify repair.

TEST #4a: Thermistor

NOTE: Refer to step 6(a) on [page 23](#) to diagnose outer temperature thermistor.

Outer (Exhaust) Thermistor

The ACU monitors the exhaust temperature using the outer thermistor. It cycles the heater relay on and off to maintain the desired temperature. **NOTE:** Begin with an empty dryer and a clean HE screen.

1. Unplug dryer or disconnect power.
2. Remove access panel to access the machine electronics.
3. Remove connector J4 from the ACU and measure the resistance between J4-1 and J4-2 at the connector. The following table gives temperatures and their associated resistance values.

NOTE: All thermistor resistance measurements must be made while dryer is unplugged and removed from ACU.

Outer (Exhaust) Thermistor			
TEMPERATURE °F (°C)	RESISTANCE RANGE Ω	TEMPERATURE °F (°C)	RESISTANCE RANGE Ω
50° (10°)	19.0-21.0	80° (27°)	0.5-1.0
60° (15°)	14.5-16.5	90° (32°)	0.8-1.2
70° (21°)	11.5-13.5	100° (38°)	0.3-0.5

* If the resistance is OK, the outer thermistor is good. Proceed to [step 4](#).

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- If the ohmmeter resistance does not agree with the table, replace the control thermistor.
- 4. Check J4-1 and J4-2 to dryer center ground. If either pin indicates continuity to ground (short), replace drying element and then, proceed to step 5.
- 5. If the preceding steps did not correct the problem, replace the A/CU.

Temperature Levels (Inches): If no error code is displayed and the connections to the thermistors are good, check the exhaust temperature value (inlet or all of the temperature levels in question) using the Timed Dry cycle.

1. Remove lead from dryer and disconnect exhaust vent.
2. Plug in dryer or reconnect power.
3. Run a TIMED DRY cycle with 15 minutes in duration and select a temperature setting (30°, 40°, heat).
4. Using a calibrated temperature probe, take a temperature measurement in the center of the exhaust baffle. The correct exhaust temperatures are as follows:

Correct Exhaust Temperature		
TEMPERATURE SETTING	HEAT TURNS OFF °F (°C)	HEAT TURNS ON °F (°C)
High	130° ± 5° (60° ± 3°)	104-115° (35°-35°)
Medium	140° ± 5° (62° ± 3°)	see the bottom of temperature
Low	152° ± 5° (55° ± 3°)	
Ex. Low	160° ± 5° (62° ± 3°)	

- If the temperature is not attained within ~7 minutes, check range level and vent placement, and then repeat.
- If the temperature probe does not agree with the temperature setting, replace the control thermistor.
- If the temperature probe confirms the temperature setting, repeat at a different temperature setting.
- 5. If the preceding steps did not correct the problem, replace the A/CU.

TEST #4b: Thermal Fuse

The thermal fuse is wired in series with the dryer drive motor.

ALL DRYERS:

1. Unplug dryer or disconnect power.
2. Remove the back panel to access the thermal fuse.
3. Using an ohmmeter, check the continuity across the thermal fuse.
- If the ohmmeter measures an open circuit, replace the thermal fuse. See Figures 8 and 9. [Pages 33](#) and [34](#) for location.

TEST #4c: Thermal Cut-Off

If the dryer does not produce heat, check the status of the thermal cut-off.

1. Unplug dryer or disconnect power.
2. Access the thermal cut-off by removing the back panel.
3. Using an ohmmeter, check the continuity across the thermal cut-off. See Figures 8 and 9. [Pages 21](#) and [22](#) for location.
4. If the ohmmeter indicates an open circuit, perform the following:

ALL DRYERS: Please test the thermal cut-off and high limit thermistor. In addition, check for blocked or otherwise damaged system venting, or specific dryers, for heat element malfunction.

TEST #4d: n Valve (Gas Dryer)

1. Unplug dryer or disconnect power.
2. Access the gas valve by removing the front panel.
3. Use an ohmmeter to determine if a gas valve coil has malfunctions. Remove bypass pipe. Measure resistance across the terminals (see Figure 10). Readings should match those shown in the following chart. If not, replace coil.

GAS VALVE RESISTANCE	
Terminal	Resistance in Ω
T1 & S	1000 ± 10
T1 & B	570 ± 20
A & S	1300 ± 65



Figure 10 - Measuring gas valve resistance.

4. Disconnect the igniter plug from the burner. Using an ohmmeter, measure the resistance across the igniter's 2-pin connector. Resistance should be 50-600 Ω.
- If resistance readings are outside the range of 50Ω, repeat the igniter.
- If resistance readings are within range, reconnect the igniter plug and continue to step 5.
5. Disconnect the wire going to the flame sensor terminals. Using an ohmmeter, measure across the two sensor terminals for continuity.
- If there is continuity, disconnect the sensor wires and continue to step 6.
- If the reading is open, the flame sensor needs replacing.
6. Reassemble all parts and panels before reconnecting power.
7. Plug in dryer or reconnect power.
8. Run a high-temp TIMED DRY cycle (15 minutes in duration).
9. When the igniter fires a couple of times, observe the "peak airflow" in the front. If the igniter stays on but the gas does not come out and ignite, the flame sensor needs replacing.
- NOTE: If igniter does not come on, the voltage may not be present at the gas valve. The cause(s) responsible will may be suspect.
- IMPORTANT: To avoid damage to the gas burner wire harness, ensure the harness is routed exactly as it was prior to service.
10. Unplug dryer or disconnect power.
11. Reassemble all parts and panels.
12. Plug in dryer or reconnect power.
13. Perform tests within "Service Test Mode" (see [page 11](#)). Verify repair.

TEST #5: Mainline Sensor

This test is performed when an automatic cycle stops too soon, or runs much longer than expected.

NOTE: Dryer will shut down automatically after 2½ hours.

The following items are part of the system:

Part of Dryer System	Normal Use	Defect
Mainline location	✓	✗
Heat sense wire	✓	✗
Heating element resistance	✓	✗

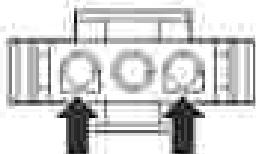
NOTE: Refer to Step 10 in [page 27](#) to diagnose mainline sensor.

NOTE: Over-drying may be caused by a short circuit in the sensor system.

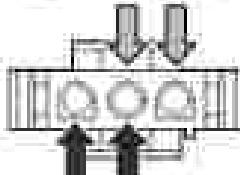
1. Perform tests under "Service Test Mode" (see the Service Test step 5. See [page 11](#)).
2. Open the hood (dryer must stop at one stage [either both heat sensor stages]).
- If the test is completed successfully the End of Cycle light will stay on. This means that the moisture sensor has passed the test (0 to 200 %).

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- If the test cannot complete by touching the moisture sensor, continue with step 2.
- 3. Unplug dryer or disconnect power.
- 4. Remove console to access the machine electronics.
- 5. Audit the moisture sensor wires and disconnect the "Water moisture sensor connector". See pages 42 and 43 for moisture sensor location.
- 6. Unplug the ACU's and remove connector J1-5 from the circuit board. Check the wire harness for continuity between J1-3 and the moisture sensor connector.
 - If there is continuity, go to step 7.
 - If there is no continuity, replace the wire harness.
- 7. Measure the resistance across the outermost contacts of the connector that houses the two sensors.



- If a small resistance is measured, clean the two metal moisture sensor probes in the drum.
- If a small resistance is measured after cleaning, replace the sensor harness.
- If a short circuit is not measured, go to step 8.
- 8. Measure the resistance across each of the differential contacts and the center terminal (ground connection).



- If a resistance less than infinity is measured, replace the sensor harness.
- If the moisture sensor diagnosis test passes, then the outer terminal "TEST #4-6" (J1-3) is OK.
- 10. If the preceding steps did not correct the problem, replace the ACU.

TEST #7: Drum Switch

This test is performed when any of the following conditions occurs during the "Bottom Activation & Encoder Test" or no sound is heard after the End of the Cycle and UNITE option is OFF:

- ✓ None of the LEDs turn on.
- ✓ Some buttons do not respond.
- ✓ No beep sound is heard.

None of the LEDs turn on:

- 1. Unplug dryer or disconnect power.
- 2. Remove console to access the ACU and HMI.
- 3. Visually check the ALL ACU connections are inserted at the key into the ACU.
- 4. Visually check the ALL HMI connections are inserted at the key into the HMI.
- 5. If all visual checks pass, perform test #1 ACU Power Check, page 11, to verify supply voltages:
 - If supply voltages are present, replace the HMI.
 - If supply voltages are not present, replace the ACU.
- 6. Reassemble all parts and panels.
- 7. Plug in dryer or reconnect power.
- 8. Perform the "Bottom Activation & Encoder Test" (see page 11) to verify repair.

Some buttons do not respond:

- 1. Unplug dryer or disconnect power.
- 2. Remove console to access the ACU and HMI.
- 3. Replace the HMI.
- 4. Reassemble all parts and panels.
- 5. Plug in dryer or reconnect power.
- 6. Perform the "Bottom Activation & Encoder Test" (see page 11) to verify repair.

No beep sound is heard:

- 1. Verify that the UNITE option is OFF.
- 2. Unplug dryer or disconnect power.
- 3. Remove console to access the ACU and HMI.
- 4. Visually check the ALL ACU/HMI connections are inserted at the key into the ACU.
- 5. Visually check the ALL HMI connections are inserted at the key into the HMI.
- 6. If all visual checks pass, perform Test #1 ACU Power Check, page 11, to verify supply voltages:
 - If supply voltages are present, replace the HMI.
 - If supply voltages are not present, replace the ACU.
- 7. Reassemble all parts and panels.
- 8. Plug in dryer or reconnect power.
- 9. Perform the "Bottom Activation & Encoder Test" (see page 11) to verify repair.

TEST #8: Door Switch

Functionality is verified when closing the door/turks on the drum light. Closing the door should turn off the drum light.

If the preceding conditions are not met:

- 1. Unplug dryer or disconnect power.
- 2. Remove console to access the machine electronics.
- 3. Check that the wires from the door switch and ACU are connected. Refer to wiring diagrams on pages 26, 27 and 28.
 - If the connections are good, replace the wire and door switch assembly and retest.
 - If wire and door switch assembly have been replaced and problem still exists, replace the ACU.
- 4. Reassemble all parts and panels.
- 5. Plug in dryer or reconnect power.
- 6. Verify that the door will open with the door locked and that it does when the door opens.

TEST #9: Water Valve

(on some models)

Activate Service Test mode (see page 12). Advance to Step 3 in Service Test Mode Chart (see page 12). Verify that water is being sprayed into the drum. See figure 11.

NOTE: Refer to step 10 on page 12 to diagnose water valve.

If no water is sprayed into the drum during system cycle:

- 1. Reset the drum. Uncheck the water valve.
- 2. Inspect float assembly for debris/bumpers and replace if:
 - If water is sprayed in the drum:
 1. Verify the water is connected and turned on.
 2. Unplug dryer or disconnect power.
- 3. Reassemble all parts and panels.

FOR SERVICE TECHNICIAN'S USE ONLY

4. Verify that the following wires coming from the water valve assembly to the ACM (ACU) (Refer to wiring diagram in pages 27, 28 and 29)
Water Valve Assembly

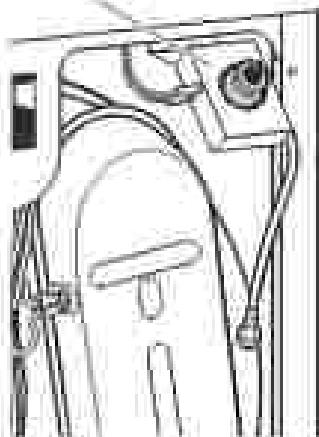


Figure 71 - Water System Components.

5. Check Water Valve & Harness—using an ohmmeter, measure the resistance between the ACM JH-1 (black wire) and JH-2 (pink wire).
 - If the resistance is 1,300 Ω (±20%), go to step 6.
 - If an open circuit is detected, go to step 7.
6. Inside the drum, unscrew and release the water valve using #21157 wrench bracket. Retest water valve.
 - If water does not dispense, go to step 7.
7. Access the water valve by removing the back panel.
 - Check that the hoses and wires are connected to the water valve assembly (see figure 71).
 - Check that the water valve assembly base is connected to the ACM.
 - If everything is connected and the water still does not dispense:
 - Unplug dryer or disconnect power.
 - Replace the valve assembly and test.
8. If the preceding steps did not correct the problem, replace the ACM.

Water leaking from dryer

If water leaks from the dryer or too much water being sprayed in the drum:

1. Plug in the machine and press Power.
 - If the machine doesn't start spraying water into the drum, go to step 2.
 - If the machine starts spraying water into the drum, replace the water valve by removing the back panel. Once the valve is replaced re-test again.
 - If re-testing the valve didn't stop the machine spraying too much water into the drum then repeat the ACM.
2. Access the water valve by removing the back panel.
 - Check that hoses and wires are connected to the water valve assembly (see figure 71).
 - Check that the water valve assembly base is connected to the ACM.
 - 3. Advance Service Test Mode (see page 17). Advance to Step 3 in Service Test Mode Chart (see page 18). Verify that water is being sprayed into the drum.
 - Verify that there are no water leaks in the connection between the water valve assembly and the hoses.
 - If too much water is being sprayed in the drum, replace the water valve by removing the back panel. Once the valve is replaced re-test again.
 - If re-testing the valve didn't stop the machine spraying too much water into the drum then repeat the ACM.

FOR SERVICE TECHNICIAN'S USE ONLY

STRIP CIRCUITS

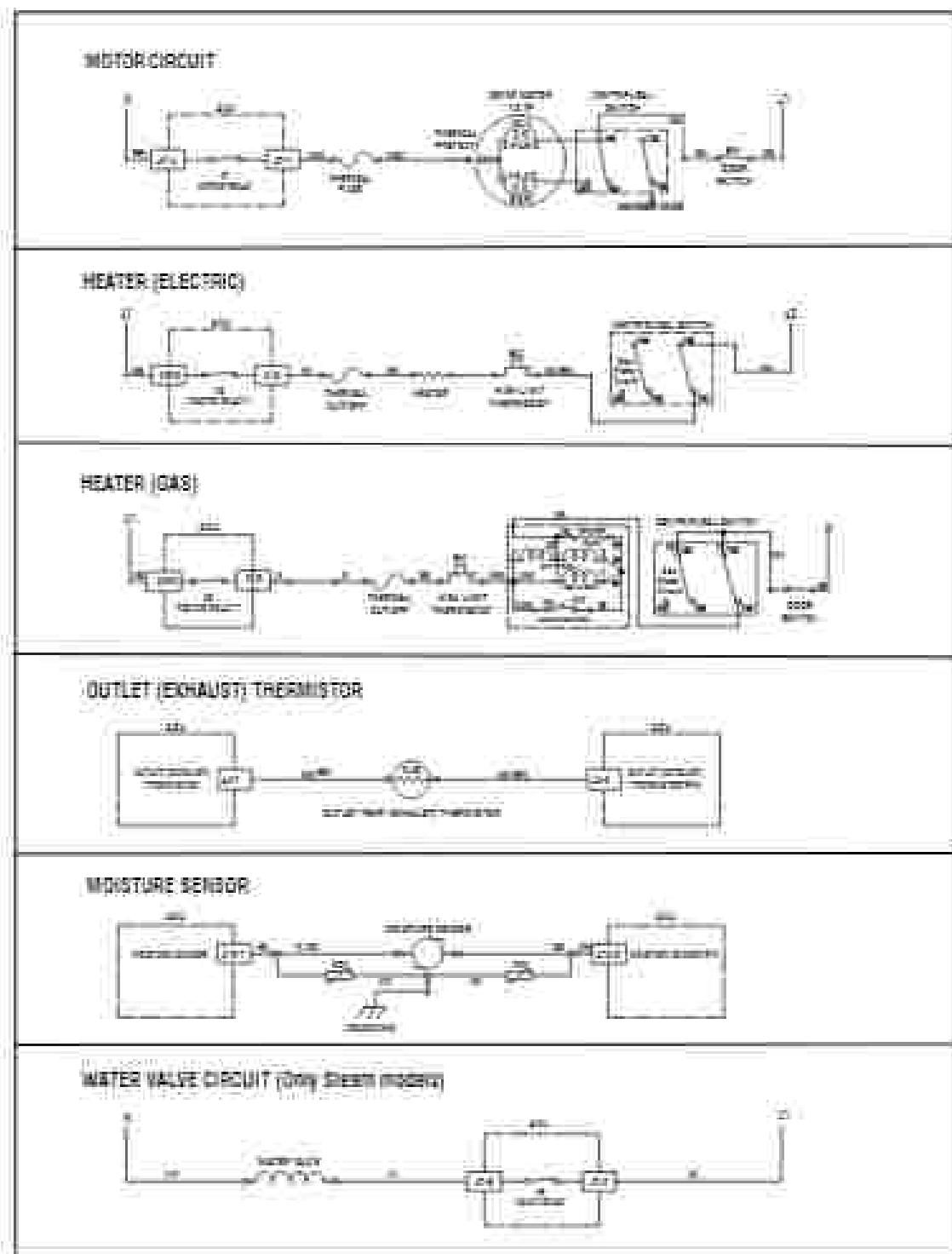


Figure 12 - Strip Circuits

FOR SERVICE TECHNICIAN'S USE ONLY

WIRING DIAGRAM

WARNING: If the following diagram is incorrect, it may damage the unit. It is the responsibility of the technician to verify the wiring diagram before proceeding.

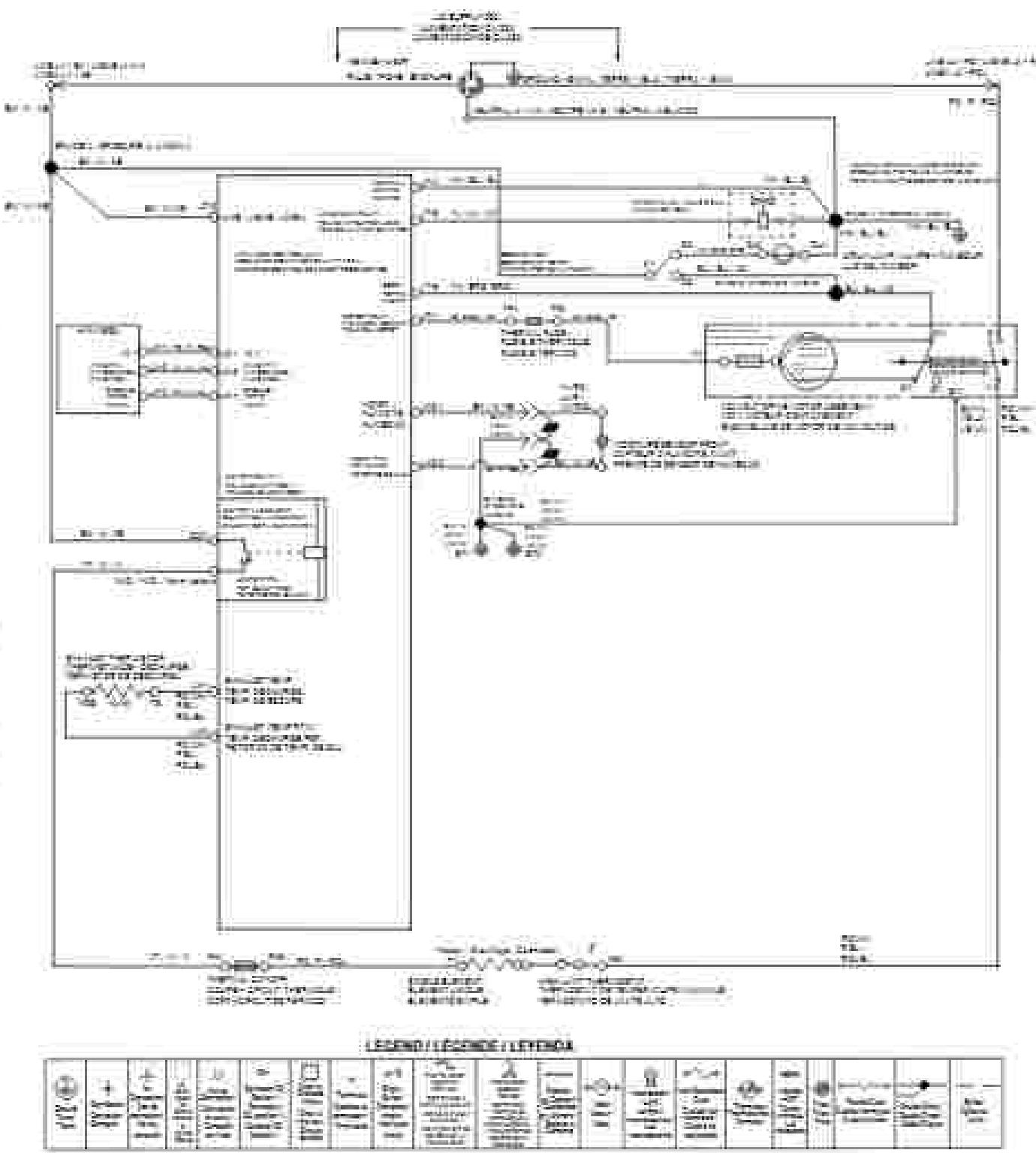


Figure 15: Wiring Diagram, Section (C4)

FOR SERVICE TECHNICIAN'S USE ONLY

DO NOT AND DO NOT DISCHARGE ANY VACUUM DURING CONTROL OPERATION! See page 1 for FSD information.

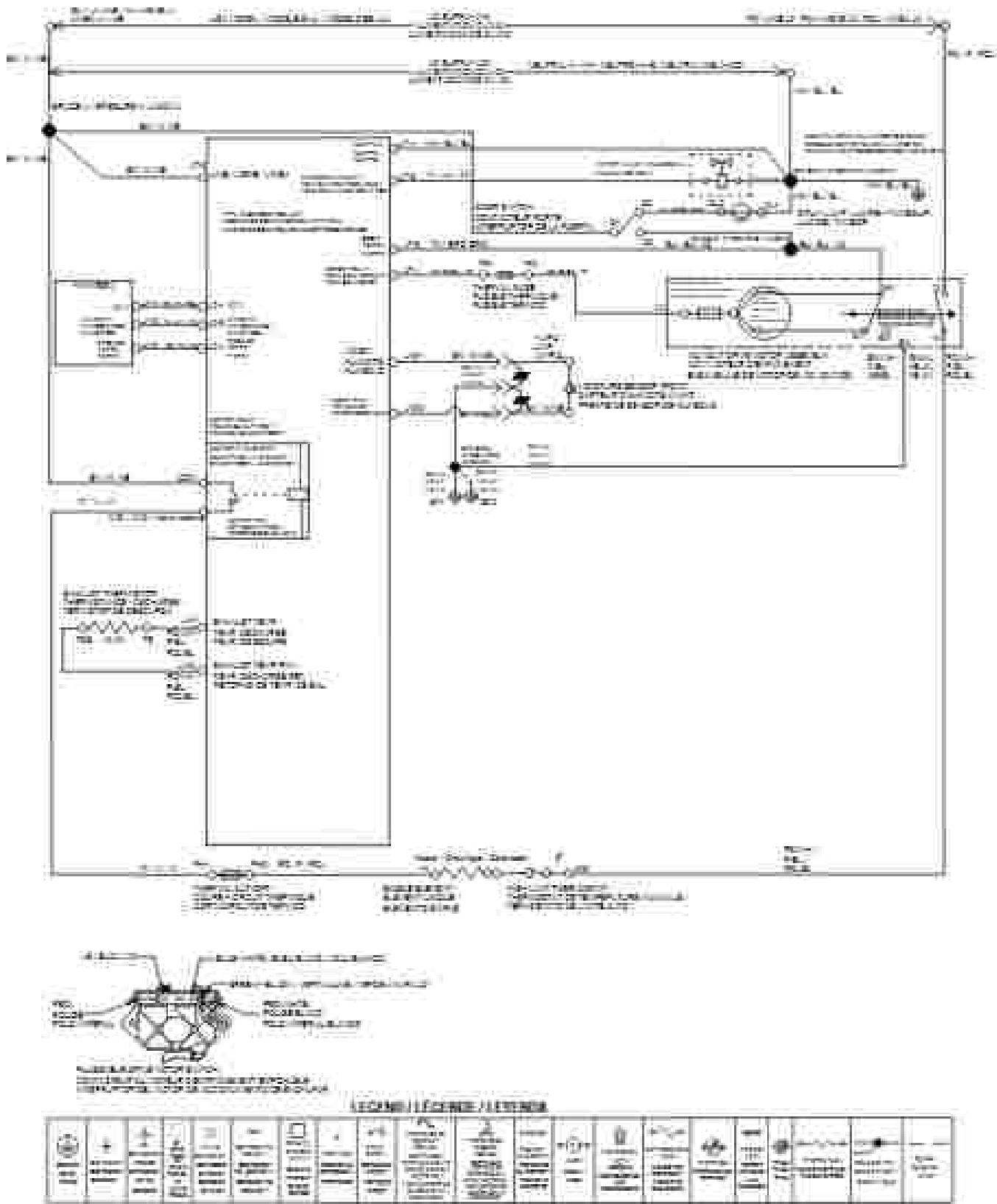
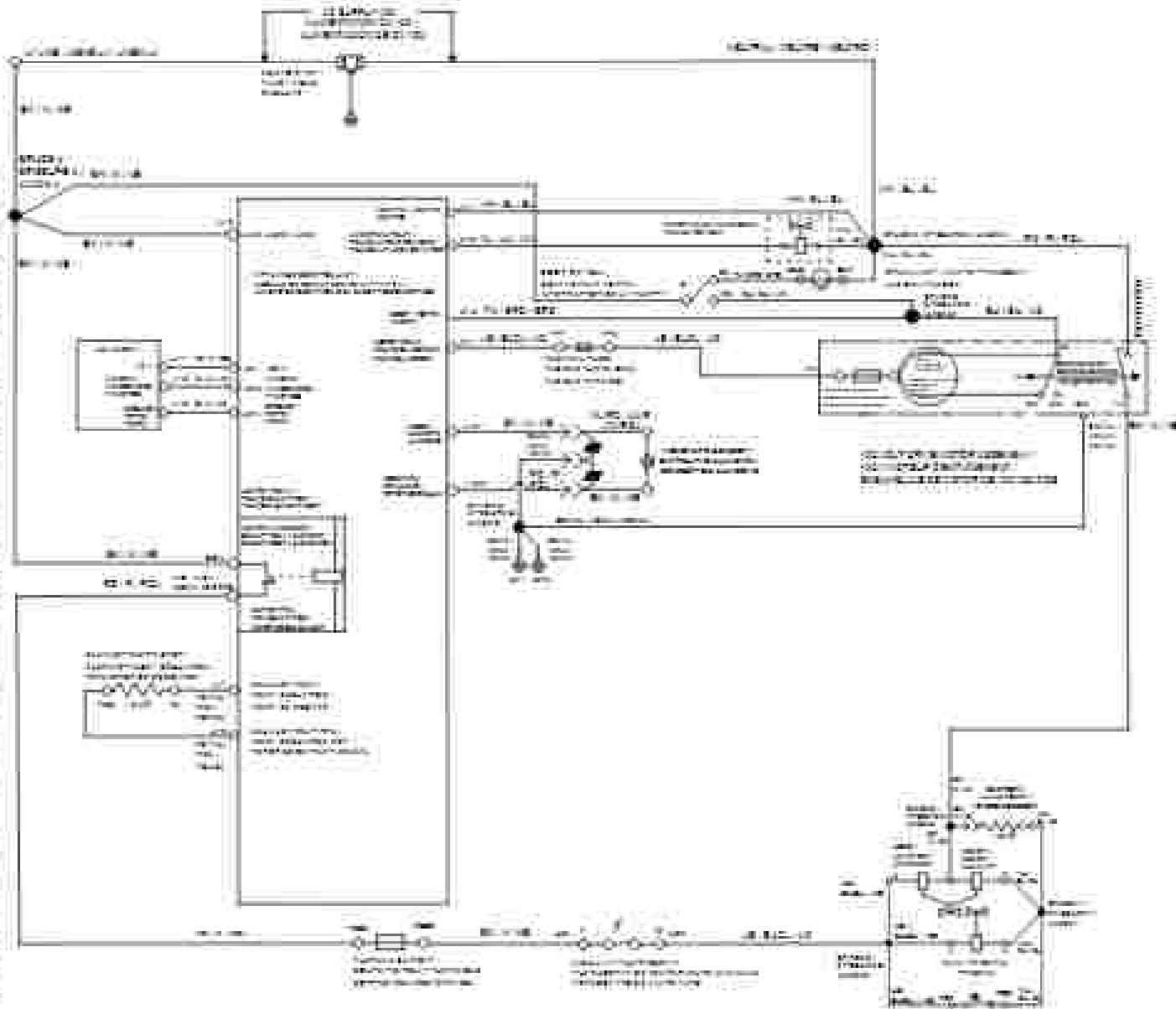


Figure 14 - Wiring Diagram, Service Model 1152

FOR SERVICE TECHNICIAN'S USE ONLY

IMPORTANT: Unhookable discharge may cause damage to insulation if cold electrodes. See page 1 for ESD information.



WIRE COLOR TABLE			
CODE COLOR	DESCRIPTION	CODE COLOR	DESCRIPTION
Red	BLACK WIRE	Black	BLACK WIRE
White	WHITE WIRE	White	WHITE WIRE
Blue	BLK/BLK/BLK	Blue	BLK/BLK/BLK
Green	GREEN WIRE	Green	GREEN WIRE
Yellow	YEL/YEL/YEL	Yellow	YEL/YEL/YEL
Orange	ORANGE WIRE	Orange	ORANGE WIRE
Purple	PURPLE WIRE	Purple	PURPLE WIRE
Brown	BROWN WIRE	Brown	BROWN WIRE
Grey	GREY WIRE	Grey	GREY WIRE

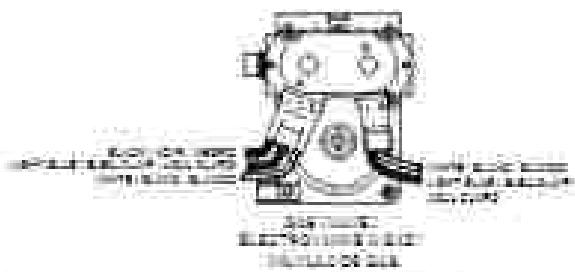
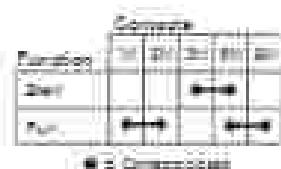
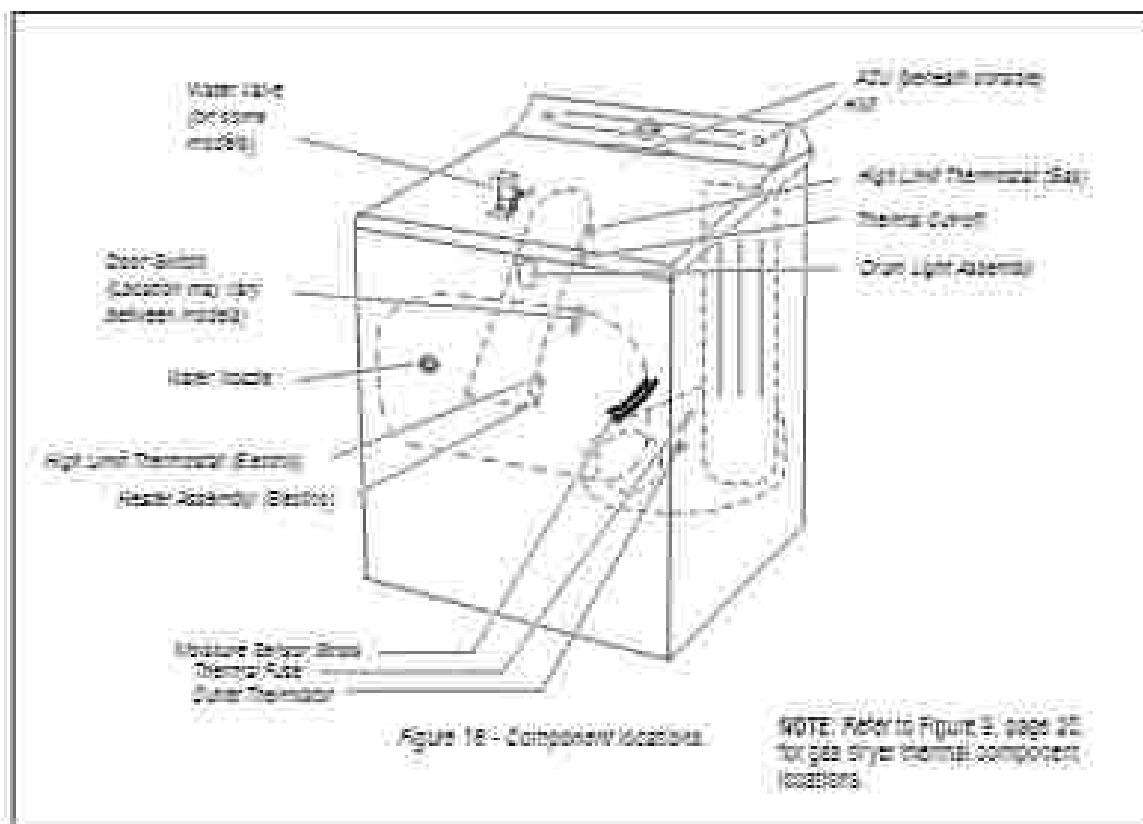


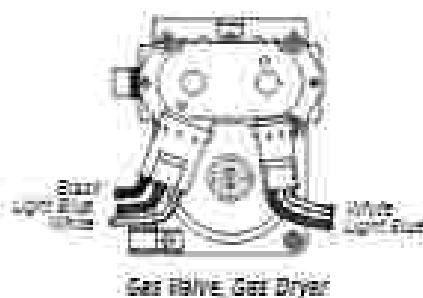
Figure 15 - Wiring Diagram, GFI

FOR SERVICE TECHNICIAN'S USE ONLY

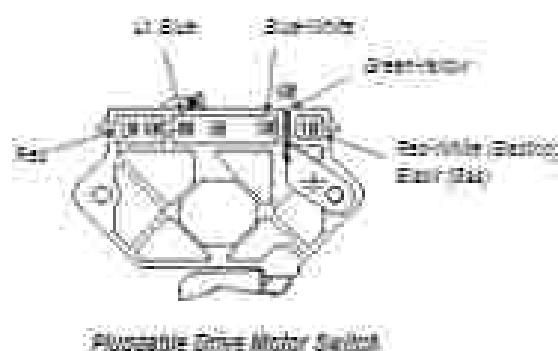
COMPONENT LOCATIONS



Centrifuge Switch (Rear)



Gas Valve, Gas Dryer



Pluggable Drive Motor Switch

Section 4: COMPONENT ACCESS

This section provides service parts access, removal, and replacement instructions for the Maytag 7.0 cu ft Electric Gas Dryer.

- Removing The Door Assembly
- Removing The Control Panel And Top Panel
- Removing The Agitator Control Unit (ACU)
- Removing The Door Switch And Seal Panel
- Removing The Grill And Front Panel Bootstraps
- Removing The Side, Drum, And Rear Panels
- Removing The Drive Motor
- Removing The Thermal Fan And Silence Thermostat
- Removing The Rear Panel, High-Low Thermostats, And Thermal Cutout (TCO) (See Models Only)
- Replacing The Thermal Cutout (TCO), Fan, And High-Low Thermostats (See Models Only)
- Removing The Flame Sensor And Gas Burner Assembly (See Models Only)
- Removing The Venture Sensor And Mesh Dust Ventzzon (NDV)
- Removing The Drum Latch Assembly

FOR SERVICE TECHNICIAN'S USE ONLY

REMOVING THE DOOR ASSEMBLY

A WARNING



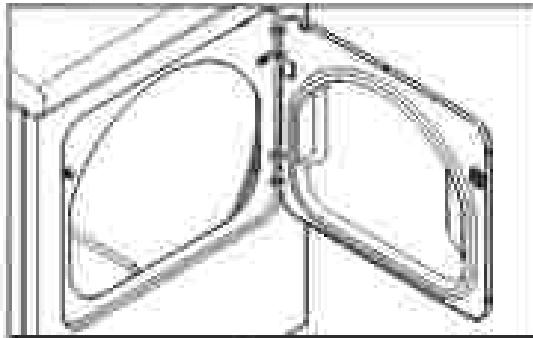
Electrical Shock Hazard

Disconnect power before servicing.

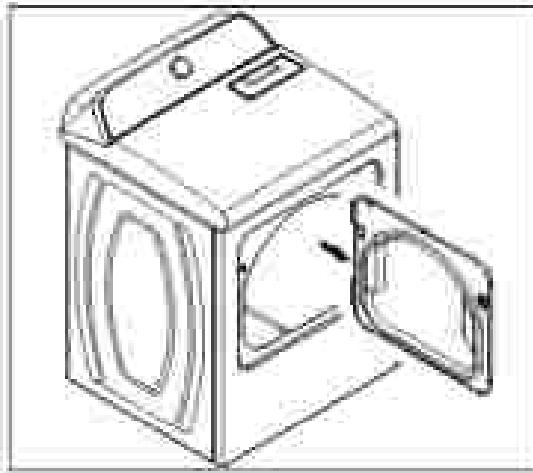
Replace all parts and panels before operating.

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

1. Use a Phillips screwdriver to remove the two upper and lower hinge screws.



2. Remove dryer door.



REMOVING THE CONSOLE/HMI AND TOP PANEL

A WARNING



Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

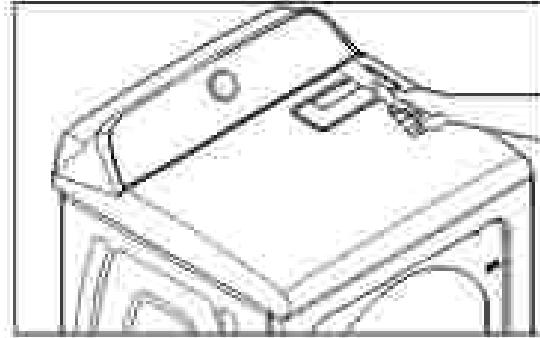
Failure to do so can result in death or electrical shock.

To Remove the Console

1. Unplug dryer or disconnect power.
2. Remove the six 1/4" (6 mm) hex-head screws from top top panel to remove top and top panel cover.

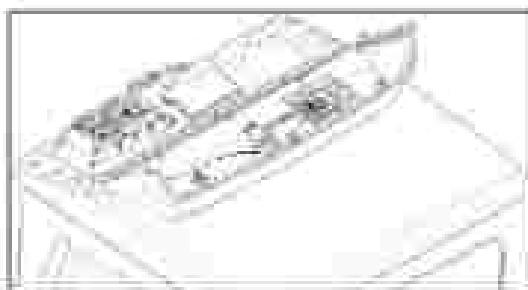


3. Score the seated putty with between the console assembly and top panel. Use your free hand to push back on the top of the console.



FOR SERVICE TECHNICIAN'S USE ONLY

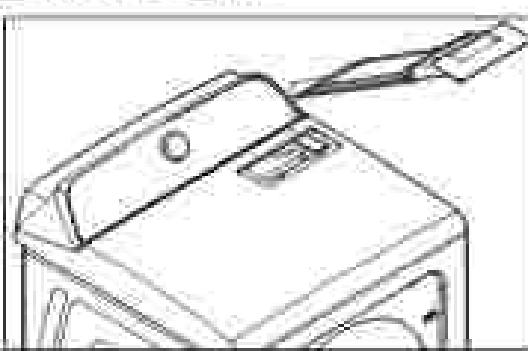
4. Gently press the console clip with the utility knife and lift up on the corners to separate from top panel. Til the case forward for service.



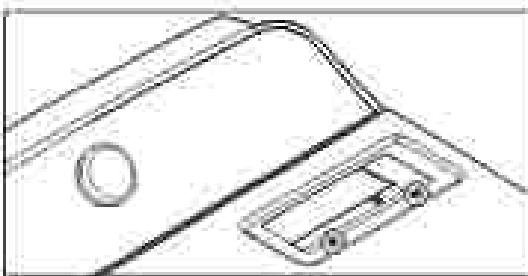
A Console Clip

To Remove the Top Panel

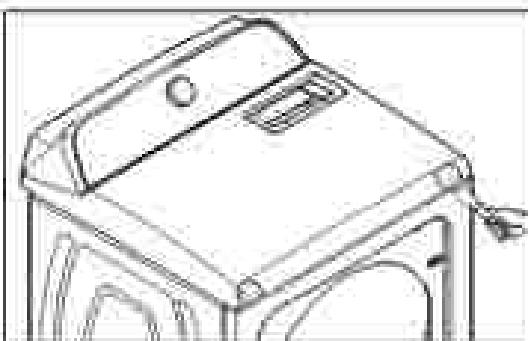
1. Unplug dryer or disconnect power.
2. Pull out and remove the air screen.



3. Remove the two top panel screws



4. While lifting the four corners of the cabinet top, press a panel key to the square in the left and right top clips, and release them from the top. Rest the top panel up and rest it against a wall.



REMOVING THE APPLIANCE CONTROL UNIT (ACU)

WARNING



Electrical Shock Hazard

Disconnect power before servicing.

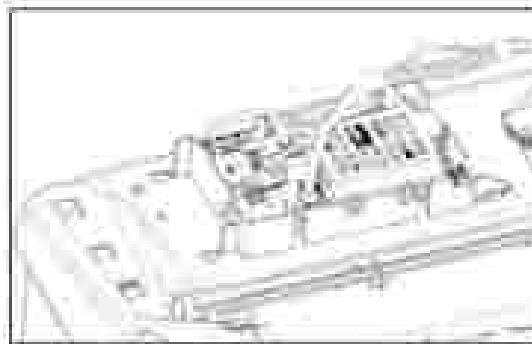
Replace all parts and panels before operating.

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

To Remove the Appliance Control Unit (ACU)

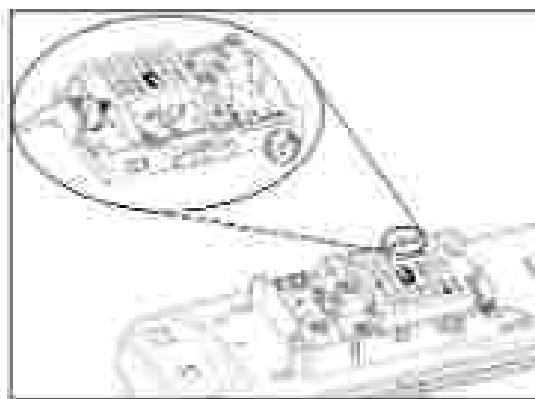
IMPORTANT: Electrostatic Discharge (ESD) Sensitive Device. Failure to follow the ESD precautions outlined in the beginning of section 3 "Testing" may destroy, damage, or weaken the main control assembly.

1. Unplug dryer or disconnect power.
2. Perform the procedures on page 37 "Removing the Console/Hull and top panel" before performing the following steps.
3. Disconnect all connectors from the ACU.

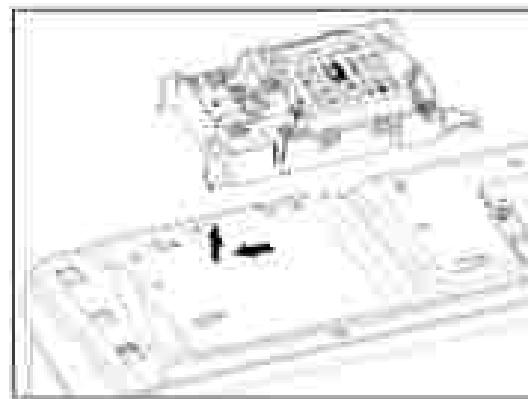


FOR SERVICE TECHNICIAN'S USE ONLY

4. Using a 1/4" (6 mm) nut driver, remove the two black bolts securing the ACU to the control board.



5. Slide the ACU to the left and fit up to remove.



Appliance Control Unit

**J2 - WIN BOS (+5 VDC
and +12.7 VDC)**



J2-1	RD	+12.7 VDC
J2-2	NO	+5 VDC
J2-3	YL	DATA
J2-4	SR	SND
J2-5	NC	

J4 - THERMISTORS



J4-1	RDWH	OUTLET THERMISTOR
J4-2	RDWH	OUTLET THERMISTOR
J4-3	NO	OPEN
J4-4	NO	OPEN

J13 - MOISTURE SENSOR



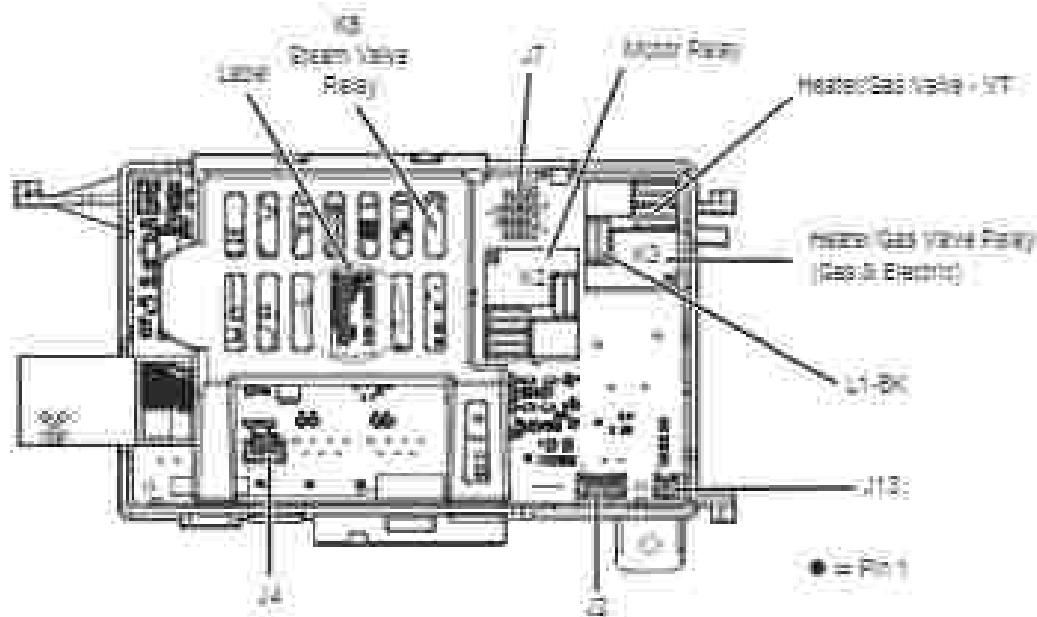
J13-1	AK	MOISTURE SENSOR
J13-2	AC	MOISTURE SENSOR

J7 - DOOR SWITCH/LOADS/LT

J7-4	VH	NEUTRAL
J7-5	DI	DOOR SWITCH
J7-6	YL	MYSTIVALVE
		(STEAM MODELS ONLY)



J7-1	LE	MOTOR
J7-2	NO	
J7-3	SH	L1



FOR SERVICE TECHNICIAN'S USE ONLY

REMOVING THE DOOR SWITCH AND FRONT PANEL

A WARNING



Electrical Shock Hazard

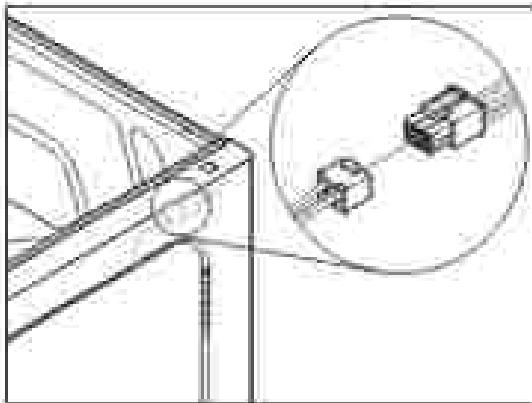
Disconnect power before servicing.

Replace all parts and panels before operating.

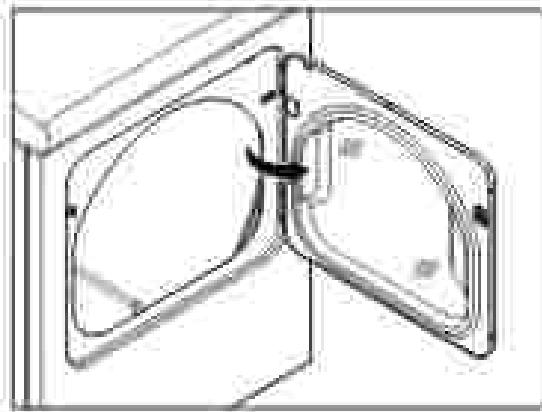
Failure to do so can result in death or electrical shock.

To Remove the Door Switch:

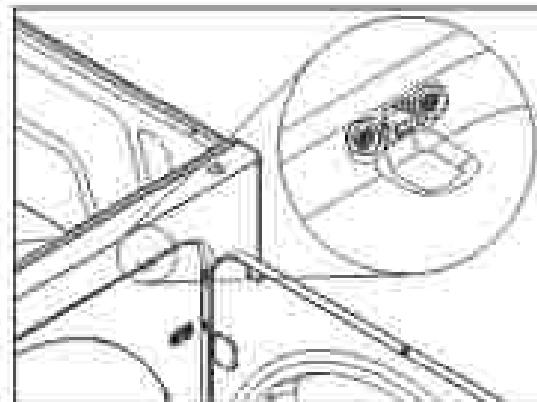
1. Unclip dryer or connection pipe.
2. Disconnect the door switch connector from the harness connector.



3. Open the dryer door.

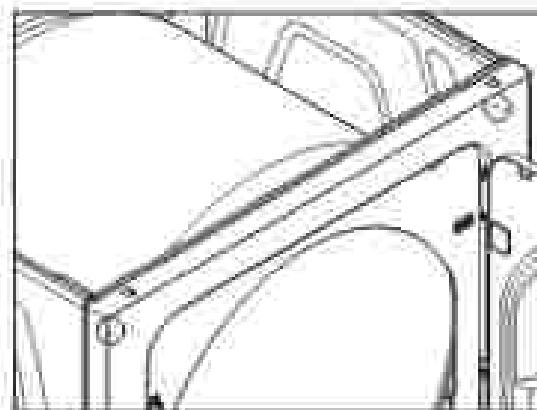


4. Remove the two screws from the door switch and remove the switch.



To Remove the Front Panel:

1. Disconnect the door switch connector from the harness connector.
2. Remove the left and right screws from the inside of the cabinet frame.



3. Pull the front panel forward again. Lift and withdraw it from the two bottom supports and remove the front. See Figure 5 and 6.

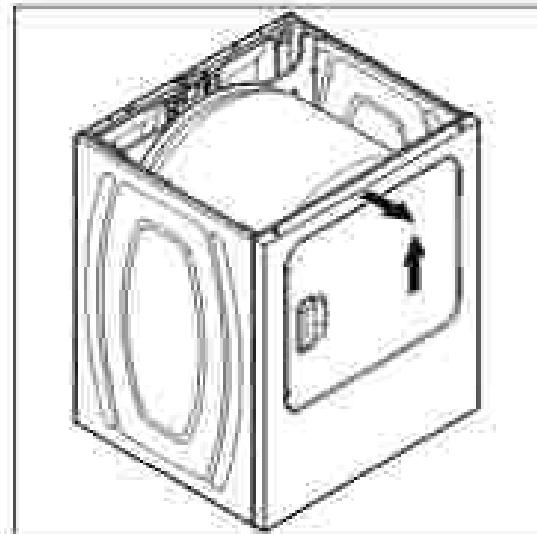


Figure 5

FOR SERVICE TECHNICIAN'S USE ONLY

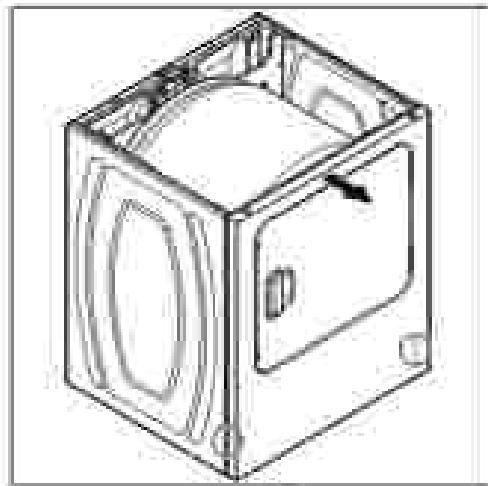


Figure 5

REMOVING THE DRUM AND FRONT PANEL BEARINGS

A WARNING



Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

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

REMOVING THE BELT, DRUM, AND REAR ROLLERS

A WARNING



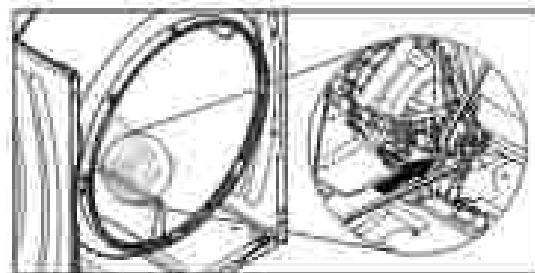
Electrical Shock Hazard

Disconnect power before servicing.

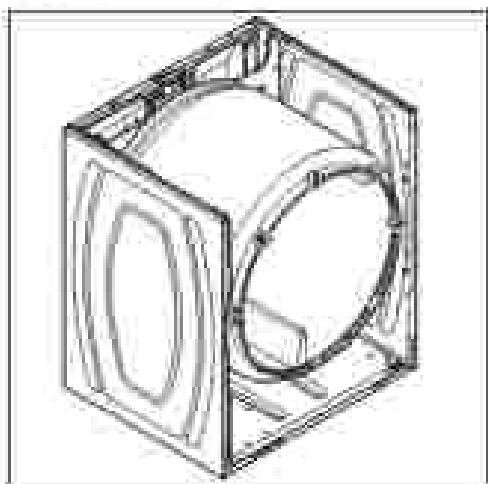
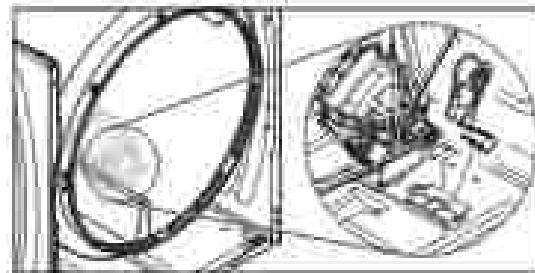
Replace all parts and panels before operating.

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

1. Unplug dryer or disconnect power.
2. Turn off gas supply to dryer.
3. Remove the front panel from the dryer (see [Figure 5](#) for the procedure).
4. To remove the belt and drum:
 - a. Reach under the drum to the drive motor and over the idler arm to relieve the spring tension on the belt, then slide the belt off the motor pulley.

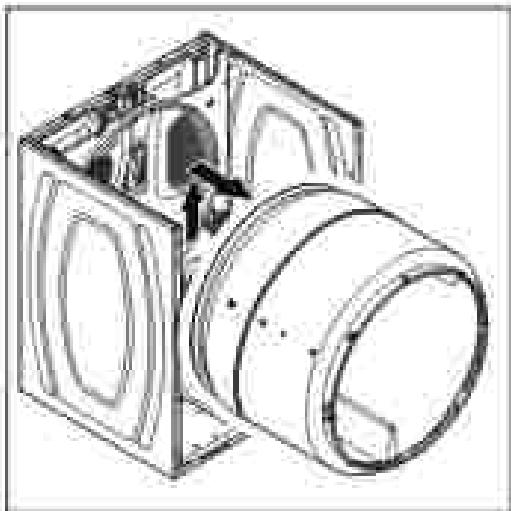


5. Remove the two pulley assembly from the dryer.



FOR SERVICE TECHNICIAN'S USE ONLY

- a. Lift the drum and remove it with the set from the dryer.



5. To remove the Drum Rollers.

- a. **Left Roller Only:** Remove the support bracket screw (see Figure A), and pull the support bracket and the round press-on nut off the end of the roller shaft (see Figure B).

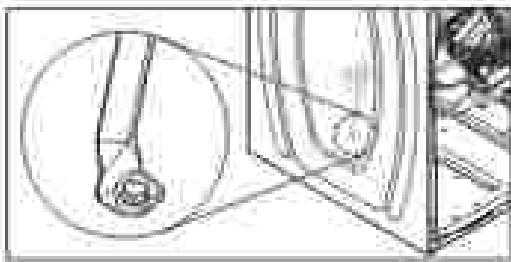


Figure 4

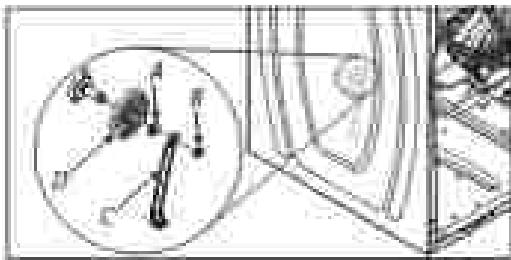


Figure 5

a. Transport Nut
b. Press On Nut

c. Support Bracket
d. Bolt

- b. Push the transport ring off the press-on nut in the roller shaft, and pull the roller off the shaft.



REMOVING THE DRIVE MOTOR

WARNING



Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

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

1. Unplug dryer or disconnect power.

2. Turn off gas supply to dryer.

3. Remove the front panel from the dryer (see page 35 for the procedure).

4. Remove the set and drum from the dryer (see page 35 for the procedure).

5. Lift the top cap (see Figure A), and disconnect the white harness connector from the drive motor (see Figure B).

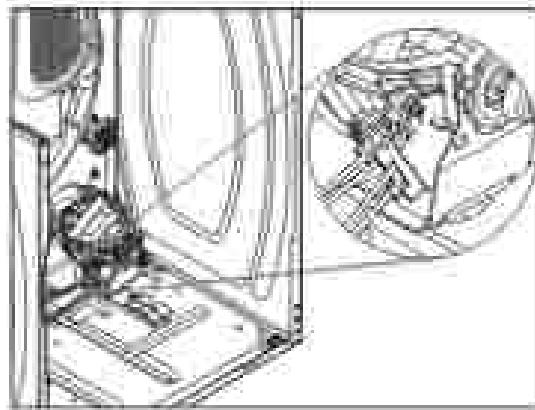


Figure A

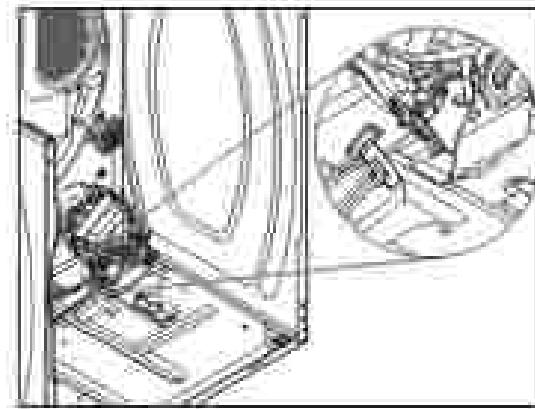
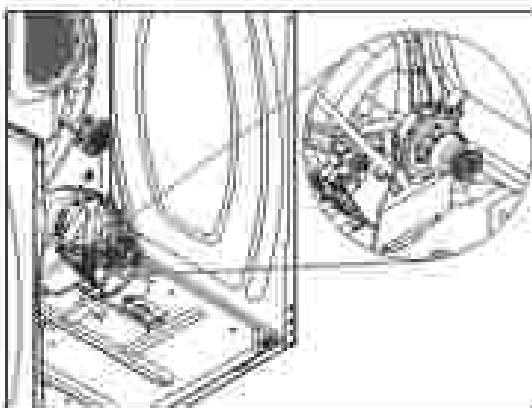


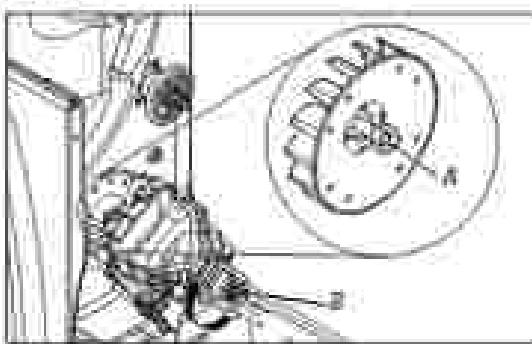
Figure B

FOR SERVICE TECHNICIAN'S USE ONLY

6. Remove the front and rear clamps from the drive motor assembly mounting brackets. To tighten a clamp, press down on one end, and unlock it from the motor side.

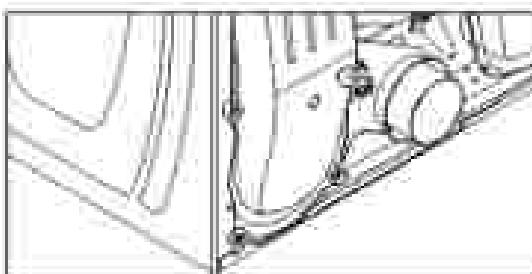


7. Push a 1/2" (13 mm) socket on the cap of the blower wheel, and a 7/16" (11 mm) socket on the front of the drive motor shaft flange. Turn the drive motor shaft to the right (clockwise), and loosen the blower wheel locknut thread.

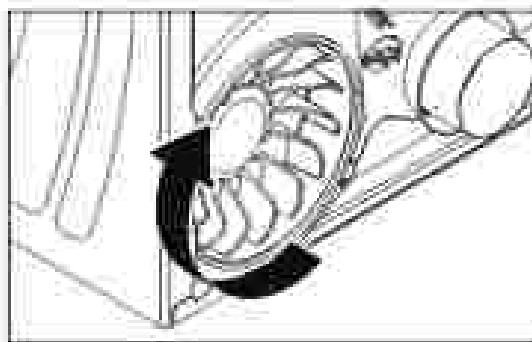


A. Locknut
B. Drive Motor Shaft

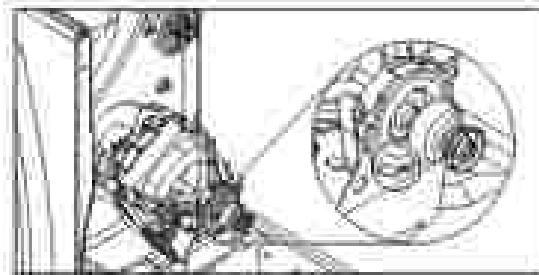
8. Remove the four screws from the air duct at the rear of the unit and pull the duct forward so that you can access the blower wheel.



9. Spin the blower wheel clockwise and remove it from the drive motor shaft.



Reassembly Note: When you reassemble the drive motor, make sure that the carbon resistor lead is in the track slot, as shown below.



REMOVING THE THERMAL FUSE AND EXHAUST THERMISTOR

A WARNING



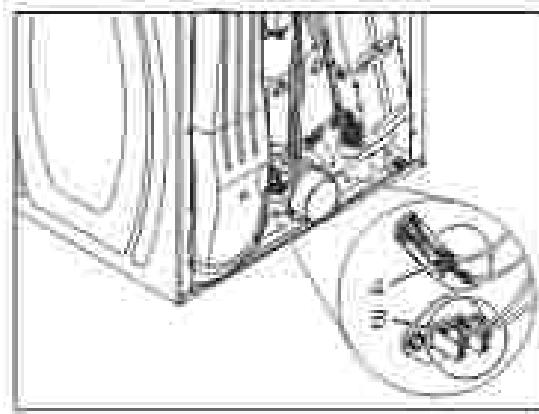
Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

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

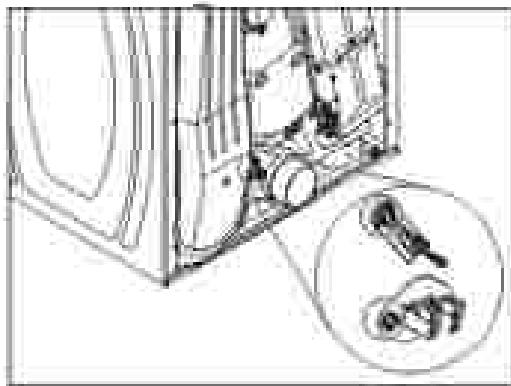
1. Turn off water or disconnect power.
2. Turn off gas supply to dryer.
3. Remove the rear panel (see page 22 for the procedure).
4. Remove the two wires from the thermal fuse and exhaust thermistor terminals.



A. Thermal Fuse B. Exhaust Thermistor

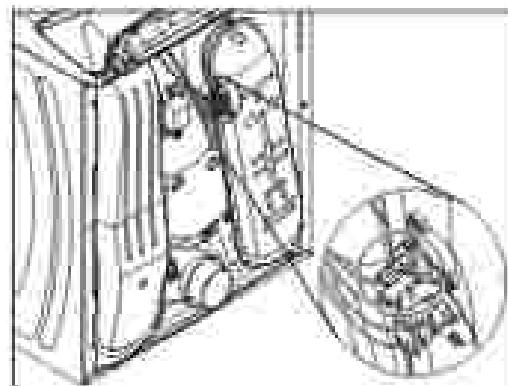
FOR SERVICE TECHNICIAN'S USE ONLY

5. Remove the two flat-head screws, without the other end of the thermal fuse and detach the lines and remove the component. See below figure.



6. To remove the High-Limit Thermostat:

- a. Remove the two wires from the thermal terminals.



REMOVING THE REAR PANEL, HIGH-LIMIT THERMOSTAT, AND THERMAL CUTOFF (TCC) (GAS MODELS ONLY)

AWNING



Electrical Shock Hazard

Disconnect power before servicing.

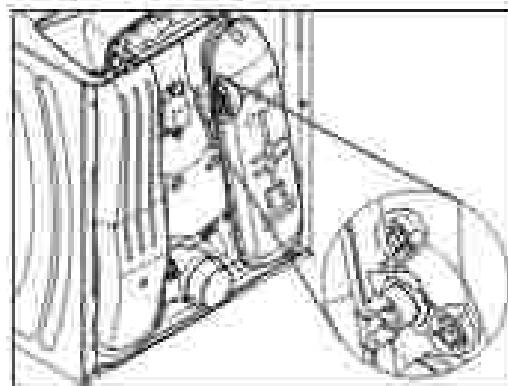
Replace all parts and panels before operating.

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

1. Unplug dryer or disconnect power.
2. Turn off gas supply to dryer.
3. Pull the dryer out from the wall so that you can access the rear panel.
4. To Detach the Rear Panel:
 - Remove the seven 1/4" flat-head screws from the rear panel and remove the panel.

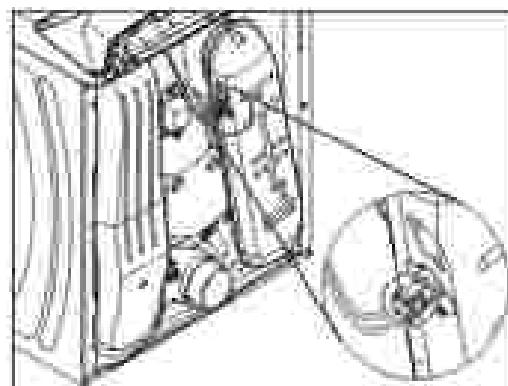


5. Remove the two flat-head screws and remove the High-Limit Thermostat.



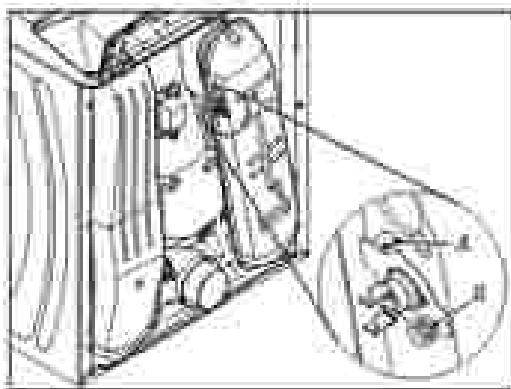
6. To remove the Thermal Cut-off (TCC):

- a. Remove the two wires from the TCC terminals.



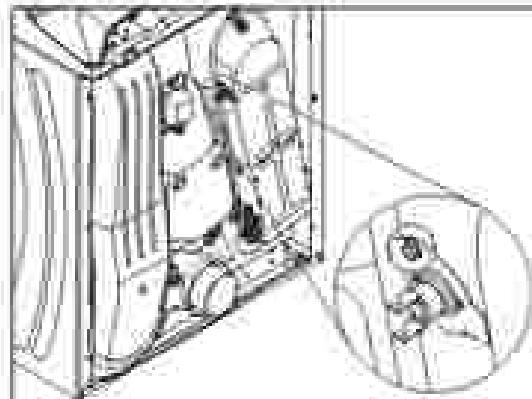
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1. Remove the top access panel, lift off the end of the bracket, and remove the TCO.



A. TCO - Top access panel

2. Remove the top access panel, unlock the arm of the bracket, and remove the TCO.



REMOVING THE THERMAL CUTOFF (TCO), HEATER, AND HIGH-LIMIT THERMOSTAT (ELECTRIC MODELS ONLY)

WARNING



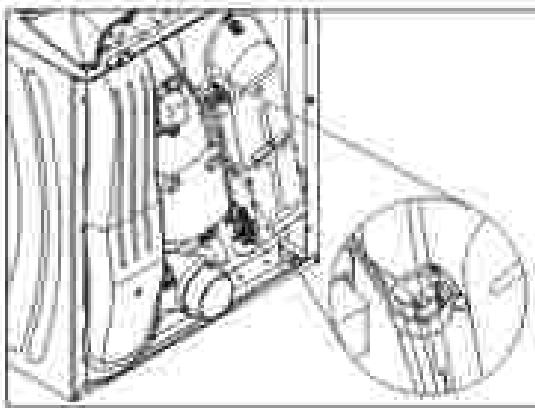
Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

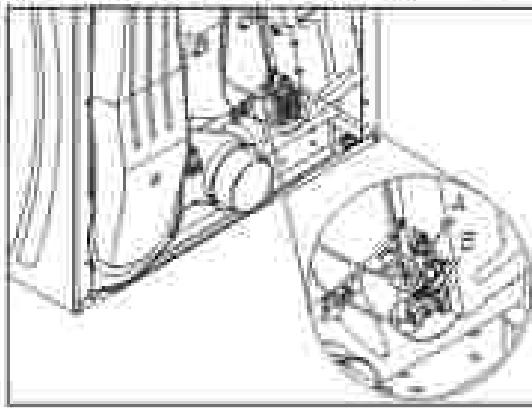
Failure to do so can result in death or electrical shock.

1. Unplug dryer or disconnect power.
2. Remove the top access panel (see page 25 for the location).
3. To remove the Thermal Cut-off (TCO):
 - a. Remove the two wires from the TCO terminals.



A.

4. To remove the Heater and High-Limit thermostat:
 - a. Lift the access panel and remove the wire connector from the High-Limit Thermostat.
 - b. Remove the wire connector from the heater terminal block.



B. High-Limit Thermostat & Heater Block

5. Remove the two hex-head screws from the heater assembly (see Figure A) and remove the assembly (see Figure B).

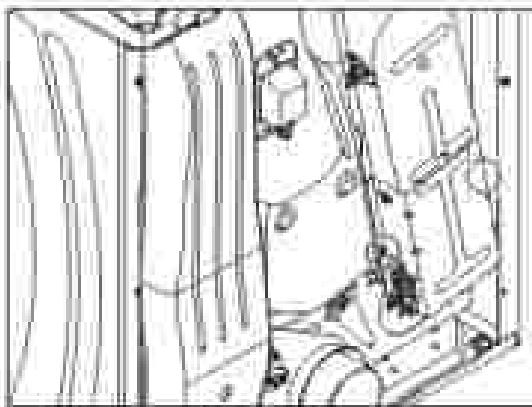


Figure C

FOR SERVICE TECHNICIAN'S USE ONLY

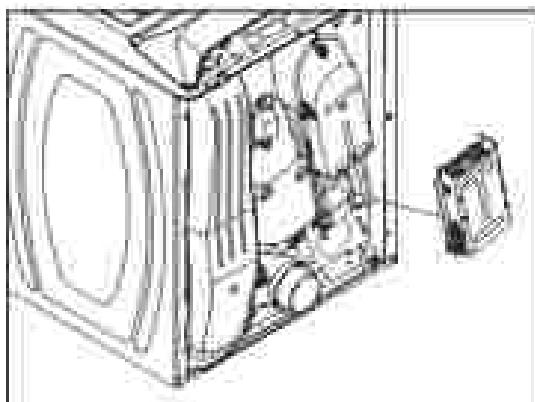
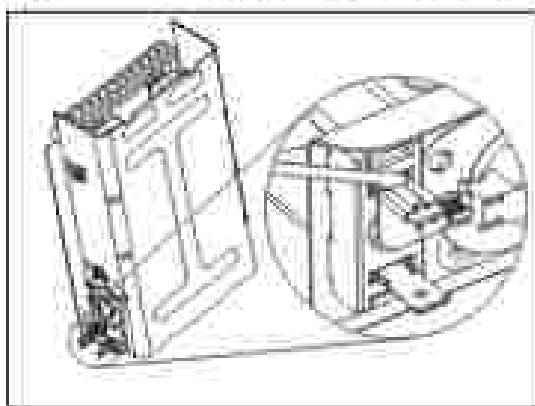


Figure 2

4. Using a flat-blade screwdriver, pry the High-Limit Thermistor terminal off the burner terminal, and remove the High-Limit from the assembly.



REMOVING THE FLAME SENSOR AND GAS BURNER ASSEMBLY (GAS MODELS ONLY)

WARNING



Electrical Shock Hazard

Disconnect power before servicing.

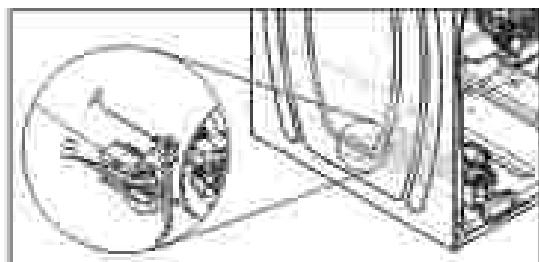
Replace all parts and panels before operating.

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

1. Ground dryer or disconnect power.
2. Turn off gas supply to dryer.
3. Remove the front panel from the dryer (see page 38 for the procedure).
4. Remove the belt and drum from the dryer (see page 38 for the procedure).

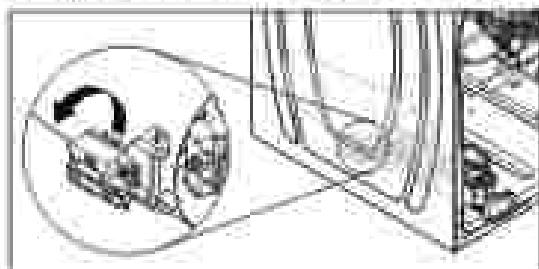
5. To remove the Flame Sensor:

- A. Remove the two wires from the sensor terminals then remove the flame sensor.



A. High-Limit Sensor B. Flame Sensor

- B. Lift out the cap, and remove the flame sensor from the burner assembly.

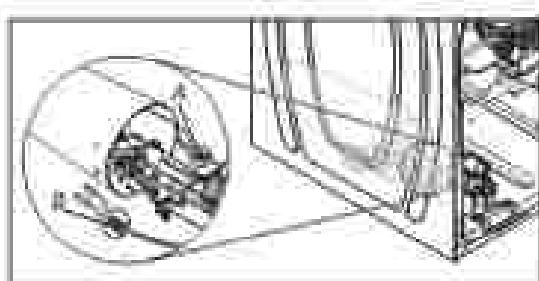


6. To remove the Burner Assembly:

- A. Disconnect the gas line from the dryer.



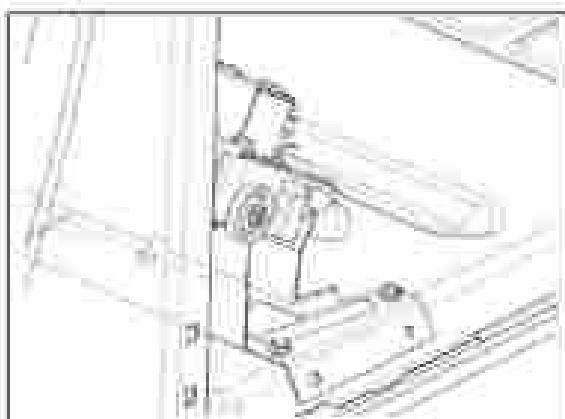
- B. Disconnect the following wire connectors from the burner assembly components:
 - Connector from the Flame Sensor
 - Burner harness connector from the main harness



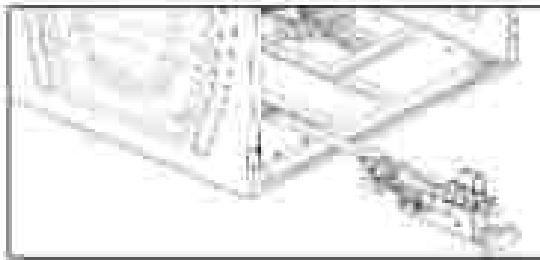
A. Burner Harness Connector
B. Flame Sensor Connector

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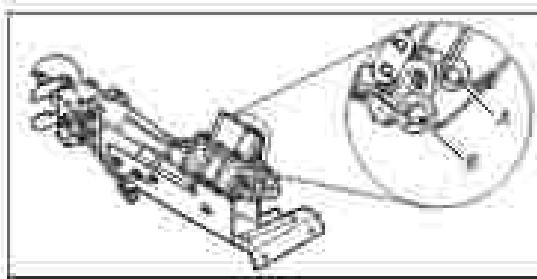
- c. Remove the three 5/16" (8 mm) tip-tube screws from the burner support bracket and remove the bracket from the bottom of the assembly.



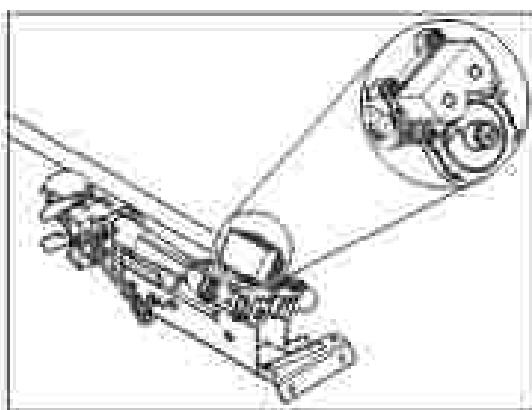
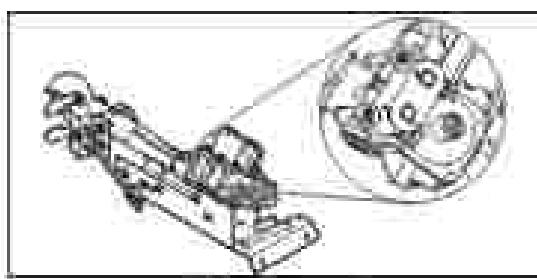
- d. Remove the two 8-32" (5 mm) hex head screws from the burner block.
e. Pull the burner assembly forward, unhook the brackets from the burner block, and remove the assembly.



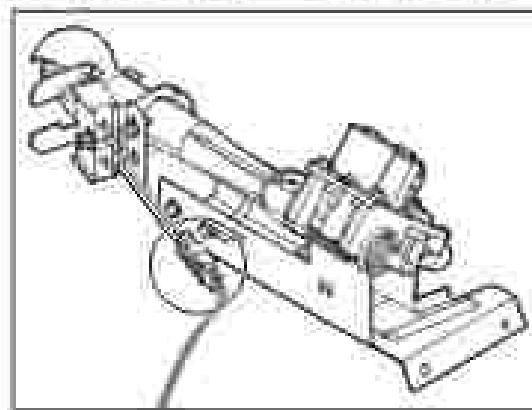
- f. To remove the Delta from the burner assembly:
g. Remove the burner assembly (see Step E).
h. Disconnect the 2-pin and 3-pin connectors from the coil terminals.



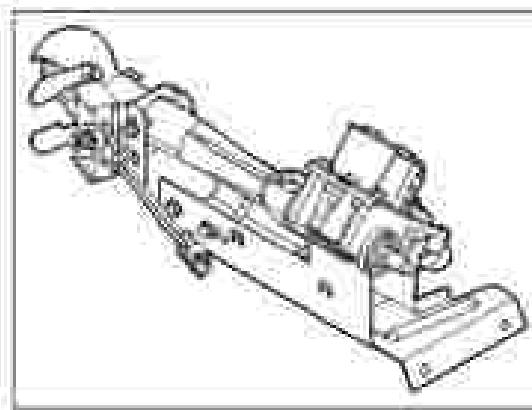
- i. Remove the two screws from the bracket, and lift the fuel valve off the valve.



- j. To remove the burner from the burner assembly:
k. Remove the burner assembly (see Step E).
l. Disconnect the 2-wire connector from the igniter terminal.



- m. Loosen the 8-32" (5 mm) hex head screw and remove the igniter from the bracket.



FOR SERVICE TECHNICIAN'S USE ONLY

REMOVING THE MOISTURE SENSOR AND METAL OXIDE VARISTORS (MOV)

WARNING



Electrical Shock Hazard

Disconnect power before servicing.

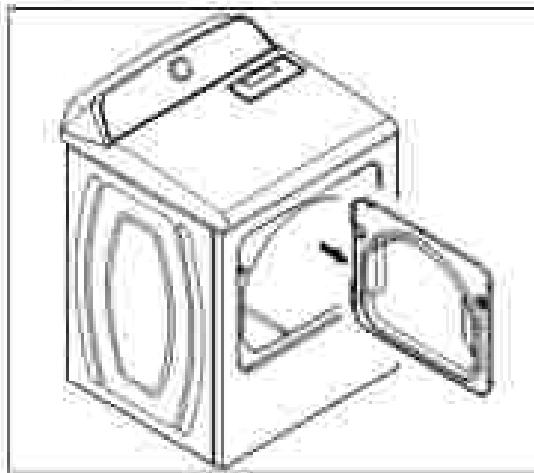
Replace all parts and panels before operating.

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

1. Unplug dryer or disconnect power.

2. Turn off gas supply to dryer.

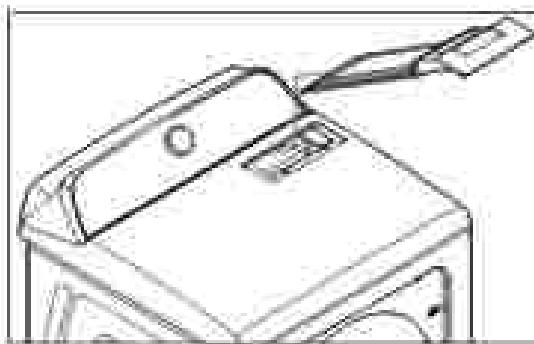
3. Open the dryer door.



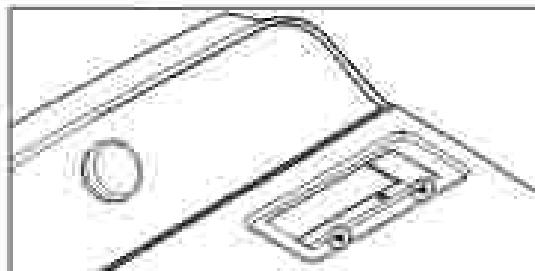
4. To remove the Moisture Sensor:

a. Remove the two screws (See page 23 for the procedure).

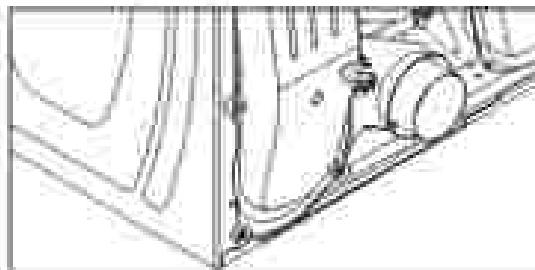
b. Pull out the line sensor.



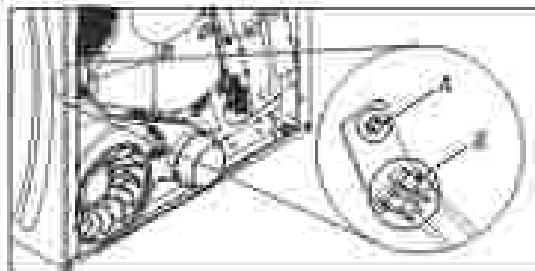
c. Remove the two top lead cables from the line sensor air duct.



d. Remove the four top (or bottom) lead cable screws from the air duct and pull air duct away from duct.



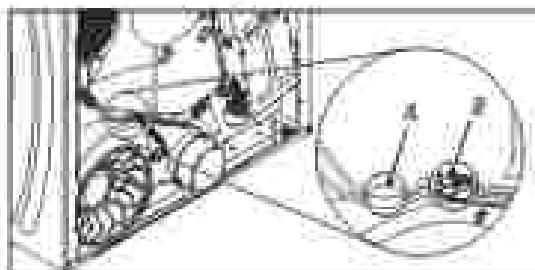
e. Disconnect the two wires from the terminals of the moisture sensor arms and remove screw attaching sensors to duct.



A-Screw B-Moisture Sensor Terminal Strips

5. To remove Metal Oxide Varistors (MOV):

■ Unhook and disconnect the moisture sensor harness connector with the Metal Oxide Varistors (MOV) from the main harness.



A-Sensor Arms B-Moisture Sensor Harness Connector

FOR SERVICE TECHNICIAN'S USE ONLY

REMOVING THE DRUM LIGHT ASSEMBLY

WARNING



Electrical Shock Hazard

Disconnect power before servicing.

Replace all parts and panels before operating.

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

1. Unplug dryer or disconnect power.
2. Turn off gas supply to dryer.
3. Open the dryer door.
4. Remove the screw from the drum light lens (see Figure A) and remove the lens (see Figure B).

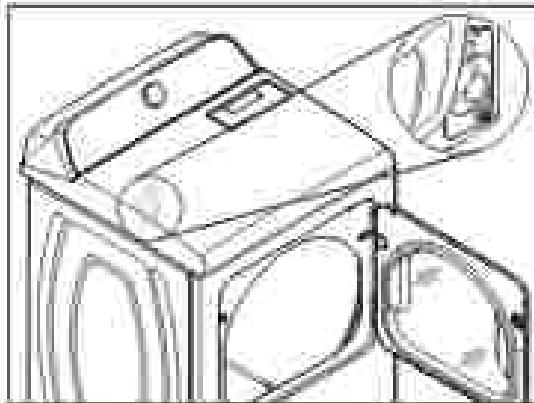


Figure A

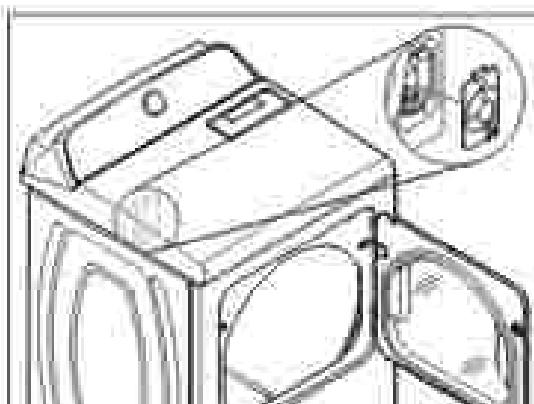
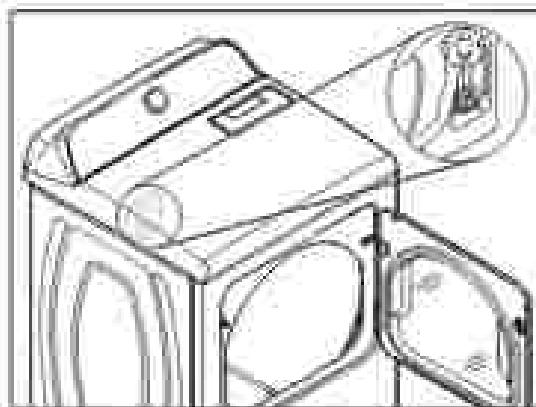
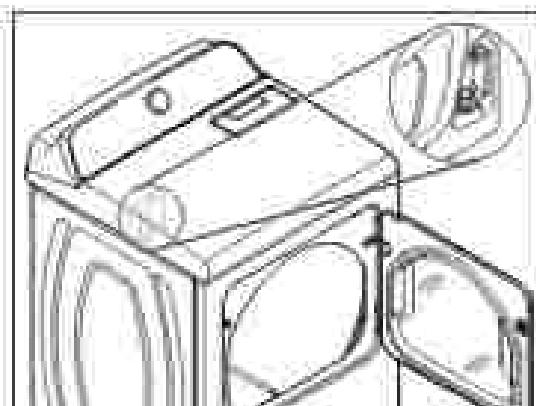


Figure B

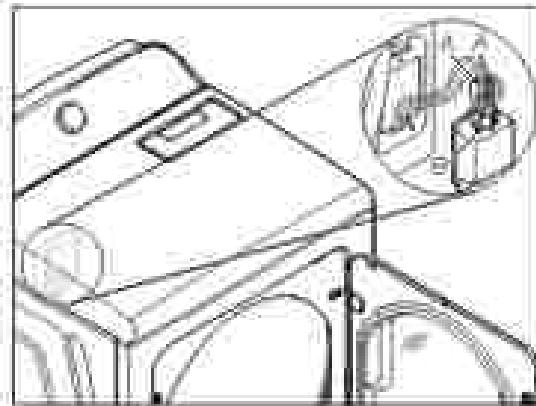
5. Remove the bulb from the drum light socket.



6. Remove the screw from the drum light holder and pull it forward so you can access the wires.

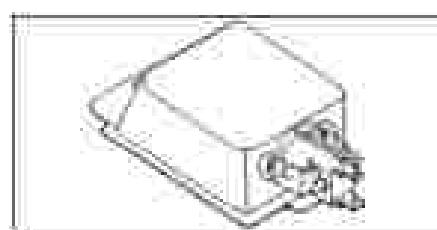


7. Disconnect the wire connection from the light socket terminals.



A. Drum light
B. Light holder

8. Squeeze the locking arms and remove the socket from the drum light holder.



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