

Home Laundry Dryers

KE and KG Models

Refer to Page 6 for Model Numbers

— Service —



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Section 1

Safety Information

Throughout this manual and on machine decals, you will find precautionary statements (“CAUTION,” “WARNING,” and “DANGER”) followed by specific instructions. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

▲ DANGER

Danger indicates the presence of a hazard that **will** cause **severe** personal injury, death, or substantial property damage if the danger is ignored.

▲ WARNING

Warning indicates the presence of a hazard that **can** cause **severe** personal injury, death, or substantial property damage if the warning is ignored.

▲ CAUTION

Caution indicates the presence of a hazard that **will** or **can** cause **minor** personal injury or property damage if the caution is ignored.

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

IMPORTANT

The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE

The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

In the interest of safety, some general precautions relating to the operation of this machine follow.



WARNING

- **Failure to install, maintain and/or operate this product according to the manufacturer’s instructions may result in conditions which can produce serious injury, death and/or property damage.**
- **Do not repair or replace any part of the product or attempt any servicing unless specifically recommended or published in this Service Manual and that you understand and have the skills to carry out.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the product is properly grounded and to reduce the risk of fire, electric shock, serious injury or death.**

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WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you, or the inexperienced person making such repairs, to the risk of serious injury, electrical shock or death.

W007



WARNING

If you or an unqualified person perform service on your product, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

W008

NOTE: The WARNINGS and IMPORTANT INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining or operating the dryer.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

Locating an Authorized Servicer

Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

Warranty service must be performed by an authorized technician, using authorized factory parts. If service is required after the warranty expires, Alliance Laundry Systems also recommends contacting an authorized technician and using authorized factory parts.

Section 2

Introduction

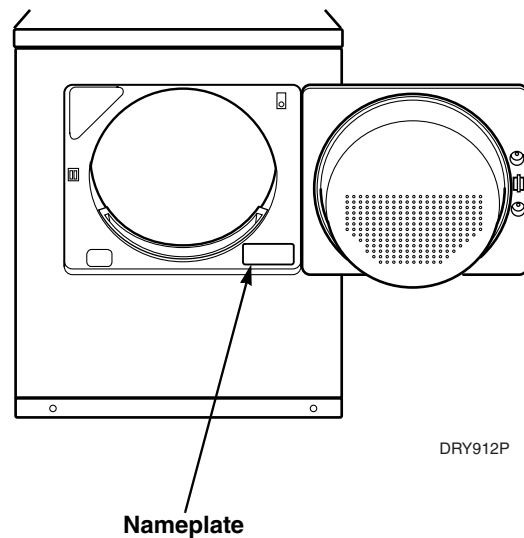
Customer Service

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

For technical assistance, call (920) 748-3121.

Nameplate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate(s) as shown.



Model Identification

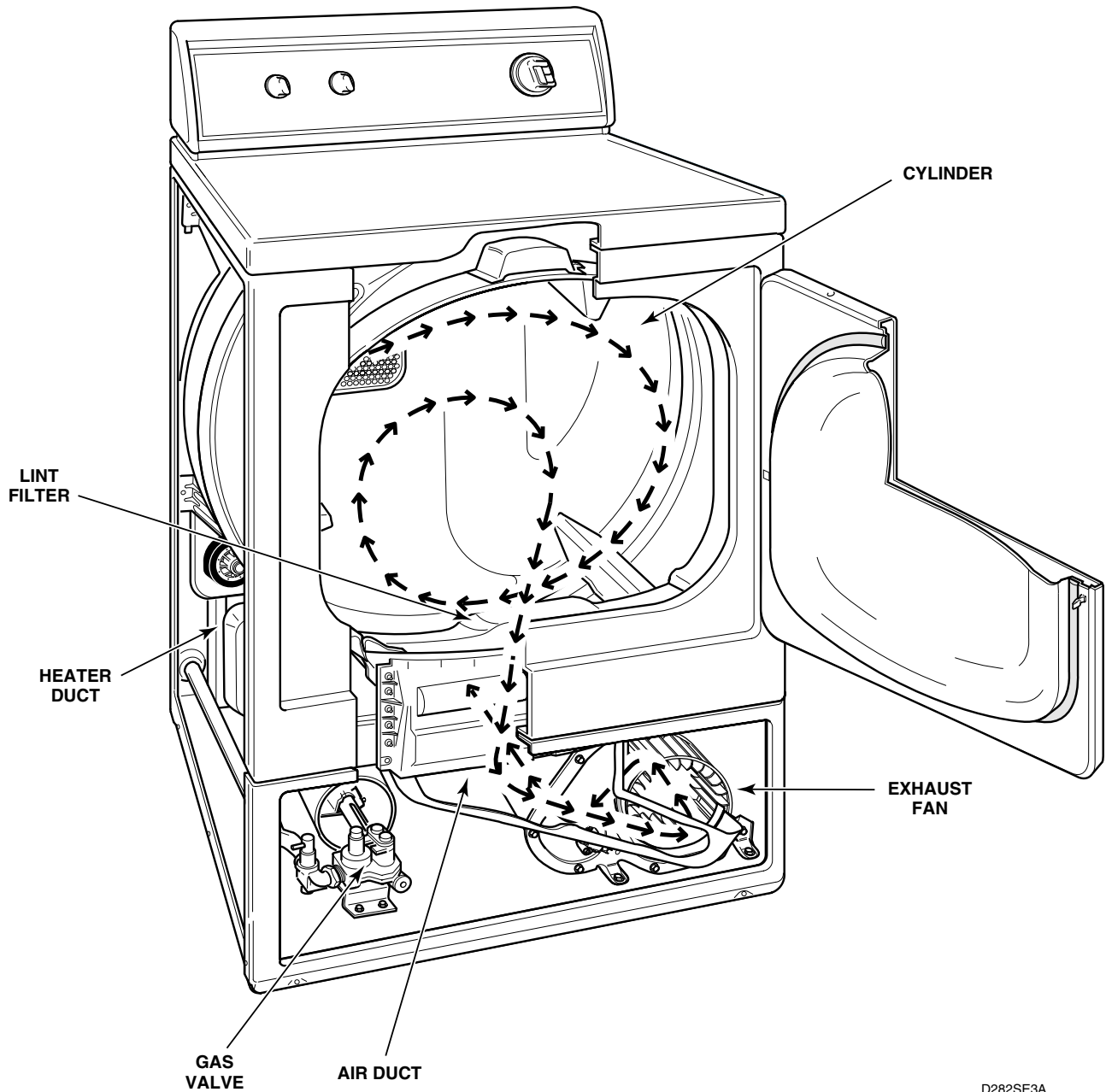
Information in this manual is applicable to these dryer.

KE5003-1102

KE5003-4562

KG5009-1102

How Your Dryer Works



D282SE3A

The dryer uses heated air to dry loads of laundry. When the motor is started, the exhaust fan pulls room temperature air in through louvers at the rear of the dryer and over the heat source (burner flame for gas and heating element for electric). The heated air moves through the heater duct and into the cylinder, where it circulates through the wet load. The air then passes through the lint filter, air duct, and exhaust fan, where it is vented to the outdoors.

Section 3

Troubleshooting



WARNING

- To reduce the risk of electric shock, fire, explosion, serious injury or death:
- Disconnect electric power to the dryer(s) before servicing.
 - Close gas shut-off valve to gas dryer(s) before servicing.
 - Never start the dryer(s) with any guards/panels removed.
 - Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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IMPORTANT: Refer to appropriate model wiring diagram for aid in testing dryer components.

1. MOTOR DOES NOT RUN

POSSIBLE CAUSE	TO CORRECT
Electrical power off, fuse blown, or power cord not plugged in.	<ul style="list-style-type: none"> • Check laundry room for blown or loose fuse(s), or open circuit breaker(s). The dryer itself does not have an electrical fuse. • Check both fuses for electric models.
Loading door not closed or inoperative door switch.	<ul style="list-style-type: none"> • Close door. • Test switch and replace if inoperative.
Motor overload protector has cycled.	<ul style="list-style-type: none"> • Wait two or three minutes for overload protector to reset. If protector cycles repeatedly, refer to <i>Paragraph 2</i>.
Timer improperly set.	<ul style="list-style-type: none"> • Reset timer.
Inoperative motor switch.	<ul style="list-style-type: none"> • Test switch and replace if inoperative.
Start circuit not completed.	<ul style="list-style-type: none"> • Press start switch button, or test switch and replace if inoperative.
Inoperative motor.	<ul style="list-style-type: none"> • Test motor and replace if inoperative.
Inoperative timer.	<ul style="list-style-type: none"> • Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	<ul style="list-style-type: none"> • Refer to appropriate wiring diagram.

2. MOTOR OVERLOAD PROTECTOR CYCLES REPEATEDLY

POSSIBLE CAUSE	TO CORRECT
Incorrect Voltage.	<ul style="list-style-type: none"> • Refer to <i>Installation Instructions</i> (supplied with dryer) for electrical requirements.
Clothes load too large.	<ul style="list-style-type: none"> • Remove part of load. A normal washer load is a normal dryer load.
Clothes cylinder is binding.	<ul style="list-style-type: none"> • Check cylinder for binding and “out of round” condition. • Check front and rear bulkheads for warping. • Check support rollers for binding. • Check cylinder seals and glides for wear or damage.
Inoperative motor overload protector.	<ul style="list-style-type: none"> • Replace drive motor.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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3. MOTOR RUNS BUT CYLINDER DOES NOT TURN

POSSIBLE CAUSE	TO CORRECT
Motor drive pulley loose.	<ul style="list-style-type: none"> • Tighten setscrew. Refer to <i>Figure 22</i>.
Broken cylinder belt.	<ul style="list-style-type: none"> • Replace belt.
Clothes cylinder is binding.	<ul style="list-style-type: none"> • Check cylinder for binding and “out of round” condition. • Check front and rear bulkheads for warping. • Check cylinder rollers for binding. • Check cylinder seals and glides for wear or damage.
Broken or disconnected idler lever spring.	<ul style="list-style-type: none"> • Replace or reconnect spring. Refer to <i>Figure 22</i>.

4. MOTOR DOES NOT STOP

POSSIBLE CAUSE	TO CORRECT
Incorrect wiring.	<ul style="list-style-type: none"> • Refer to appropriate wiring diagram in SECTION 9.
Motor centrifugal switch sticky or plugged with lint.	<ul style="list-style-type: none"> • Remove dust or lint and spray with “SLYDE,” Part No. 131P4, to clean and lubricate.
Inoperative door switch.	<ul style="list-style-type: none"> • Test switch and replace if inoperative.
Inoperative timer.	<ul style="list-style-type: none"> • Test timer and replace if inoperative.



WARNING

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- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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5. HEATING ELEMENT DOES NOT HEAT OR BURNER DOES NOT IGNITE

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	<ul style="list-style-type: none"> • Refer to <i>Installation Instructions</i> (supplied with dryer) for exhaust requirements.
Blown house fuse or tripped circuit breaker.	<ul style="list-style-type: none"> • Check fuses or circuit breakers.
Temperature selector switch set at FLUFF, or inoperative.	<ul style="list-style-type: none"> • Reset switch, or test switch and replace if inoperative.
Timer improperly set.	<ul style="list-style-type: none"> • Reset timer.
Inoperative limit thermostat.	<ul style="list-style-type: none"> • Test thermostat and replace if inoperative.
Electric Models: Inoperative heating element.	<ul style="list-style-type: none"> • Replace element.
Gas Models: Insufficient gas supply.	<ul style="list-style-type: none"> • Open partially closed gas shutoff valve, or correct low gas pressure.
Inoperative drive motor switch.	<ul style="list-style-type: none"> • Test switch and replace if inoperative.
Gas Models: Inoperative gas valve coils.	<ul style="list-style-type: none"> • Test coils and replace if inoperative.
Gas Models: Inoperative igniter.	<ul style="list-style-type: none"> • Test igniter and replace if inoperative.
Gas Models: Inoperative flame sensor.	<ul style="list-style-type: none"> • Test flame sensor and replace if inoperative.
Inoperative high or low thermostat.	<ul style="list-style-type: none"> • Test thermostat and replace if inoperative.
Inoperative timer.	<ul style="list-style-type: none"> • Test timer and replace if inoperative.
Broken, loose or incorrect wiring.	<ul style="list-style-type: none"> • Refer to appropriate wiring diagram.

6. IGNITER DOES NOT GLOW (GAS SUPPLY SUFFICIENT) - GAS MODELS

POSSIBLE CAUSE	TO CORRECT
No power to power leads on valve.	<ul style="list-style-type: none"> • Check for electrical circuit. Refer to “To Test Electrical Circuit to Ignition System” on page 22.
Flame sensor failed with contacts open.	<ul style="list-style-type: none"> • Replace flame sensor.
Igniter broken or open.	<ul style="list-style-type: none"> • Replace igniter.

7. BURNER IGNITES AND GOES OUT REPEATEDLY - GAS MODELS

POSSIBLE CAUSE	TO CORRECT
Burner heat not holding flame sensor contacts open.	<ul style="list-style-type: none"> • Replace flame sensor.
Insufficient gas supply.	<ul style="list-style-type: none"> • Check gas supply and pressure.



WARNING

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 - **Close gas shut-off valve to gas dryer(s) before servicing.**
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 - **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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8. IGNITER GLOWS BUT BURNER DOES NOT IGNITE - GAS MODELS

POSSIBLE CAUSE	TO CORRECT
Flame sensor failed in closed position.	<ul style="list-style-type: none"> • Replace flame sensor.
Open secondary coil or holding coil	<ul style="list-style-type: none"> • Replace gas valve (in-warranty) or replace coils (out-of-warranty) with Kit No. 56225A. Refer to the parts manual for part numbers of coils.
Insufficient gas supply.	<ul style="list-style-type: none"> • Check gas supply and pressure.

9. HEATING ELEMENT OR BURNER SHUTS OFF PREMATURELY

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	<ul style="list-style-type: none"> • Refer to <i>Installation Instructions</i> (supplied with dryer) for electrical requirements.
Gas Models: Insufficient gas supply.	<ul style="list-style-type: none"> • Open partially closed gas shutoff valve, or correct low pressure.
Gas Models: Dryer not properly equipped with orifice for type of gas being used.	<ul style="list-style-type: none"> • Refer to “Gas Burner Conversion Procedures” in this manual to convert burner.
Gas Models: Improperly adjusted burner flame.	<ul style="list-style-type: none"> • Adjust flame. <i>Paragraph 59.</i>
Cycling off on limit thermostat.	<ul style="list-style-type: none"> • Momentarily connect a jumper wire across thermostat terminals. If heating element heats or burner ignites when jumper wire is connected, refer to <i>Paragraph 10.</i>
Gas Models: Flame sensor contact opening prematurely. Burner flame improperly adjusted.	<ul style="list-style-type: none"> • Replace flame sensor or adjust burner flame.
Inoperative high or low thermostat.	<ul style="list-style-type: none"> • Test thermostat and replace if inoperative.
Inoperative timer.	<ul style="list-style-type: none"> • Test timer and replace if inoperative.
Broken, loose or incorrect wiring.	<ul style="list-style-type: none"> • Refer to appropriate wiring diagram.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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10. HEATING ELEMENT OR BURNER REPEATEDLY CYCLES OFF ON LIMIT THERMOSTAT

POSSIBLE CAUSE	TO CORRECT
External exhaust system longer than recommended.	<ul style="list-style-type: none"> • Refer to <i>Installation Instructions</i> (supplied with dryer) for exhaust system requirements.
Clogged lint filter.	<ul style="list-style-type: none"> • Remove and clean lint filter.
Lint in internal dryer ductwork.	<ul style="list-style-type: none"> • Disassemble dryer and clean ductwork.
Lint in external exhaust system.	<ul style="list-style-type: none"> • Disassemble and clean exhaust system.
Hinged damper on exhaust system weather hood not free to open.	<ul style="list-style-type: none"> • Free hinged damper or replace weather hood
Limit thermostat cycling at too low a temperature.	<ul style="list-style-type: none"> • Replace thermostat.
Air leak around loading door. (Door not sealing properly against outer door seal due to damaged seal or inoperative catch.)	<ul style="list-style-type: none"> • Replace seal or catch.
Air leak at front or rear cylinder seal.	<ul style="list-style-type: none"> • Check and replace seal if necessary.

11. HEATING ELEMENT OR BURNER DOES NOT SHUT OFF

POSSIBLE CAUSE	TO CORRECT
Inoperative motor switch.	<ul style="list-style-type: none"> • Test switch and replace if inoperative.
Motor does not stop.	<ul style="list-style-type: none"> • Refer to <i>Paragraph 4</i>.
Incorrect wiring.	<ul style="list-style-type: none"> • Refer to appropriate wiring diagram.

12. CLOTHES DO NOT DRY

POSSIBLE CAUSE	TO CORRECT
Heating element does not heat or burner does not ignite.	<ul style="list-style-type: none"> • Refer to <i>Paragraph 5</i>.
Too much water in articles being dried.	<ul style="list-style-type: none"> • Remove excess water.
Clothes load too large.	<ul style="list-style-type: none"> • Remove part of load. A normal washer load is a normal dryer load.
Improper or inadequate exhaust system.	<ul style="list-style-type: none"> • Refer to <i>Installation Instructions</i> (supplied with dryer) for exhaust requirements.
Heating element or burner shuts off prematurely.	<ul style="list-style-type: none"> • Refer to <i>Paragraph 9</i>.
Gas Models: Gas line pressure too high or too low.	<ul style="list-style-type: none"> • If line pressure to dryer exceeds 8 inch water column pressure, or is lower than 4 inch water column, ask Gas Company to correct.



WARNING

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13. TIMER DOES NOT ADVANCE IN AUTOMATIC CYCLE

POSSIBLE CAUSE	TO CORRECT
Inoperative high or low thermostat.	<ul style="list-style-type: none"> • Test thermostat and replace if inoperative.
Heating element does not heat or burner does not ignite.	<ul style="list-style-type: none"> • Refer to <i>Paragraph 5</i>.
Heating element or burner cycles off prematurely.	<ul style="list-style-type: none"> • Refer to <i>Paragraph 9</i>.
Timer improperly set in FLUFF.	<ul style="list-style-type: none"> • Reset timer.
Broken, loose or incorrect wiring.	<ul style="list-style-type: none"> • Refer to appropriate wiring diagram.

Section 4

Service Procedures



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

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- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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14. TIMER - ALL MODELS

Refer to *Figure 1* or *2* for timer removal.

15. TEMPERATURE SELECTOR SWITCH

Refer to *Figure 1* for switch removal.

To Test Temperature Selector Switch

1. Remove control panel and lift assembly off panel support. Refer to *Figure 1* or *2*.
2. Disconnect wires from switch.

NOTE: Refer to wiring diagram when rewiring switch.

3. Set meter to read ohms and put meter probes on L1 and 2. Meter should register “zero” in HEAVY, NORMAL and PERMANENT PRESS KNITS positions. Meter should read “infinite” in DELICATE or FLUFF.
4. Apply meter probes to L1 and 1. Should get “zero” reading in DELICATE and “infinite” in all other positions.
5. Meter should read “infinite” on L1 and 1 or L1 and 2 in FLUFF positions.

16. SIGNAL CONTROL

Refer to *Figure 1* for signal control removal.

To Test Signal Control

1. Remove control panel and lift assembly off panel support. Refer to *Figure 1* or *2*.
2. Disconnect wires from signal control.
3. Set test meter to read ohms and apply probes to terminals of Signal Control. Meter should read approximately 1000 ohms at all times.

17. START SWITCH - ALL MODELS

Refer to *Figure 1* or *2* for switch removal.

To Test Push-To-Start Switch

1. Remove control panel screws and lift assembly off panel support. Refer to *Figure 1* or *2*.
2. Set voltohmmeter on ohms scale and “zero” at appropriate scale.
3. Unplug dryer from electrical supply and disconnect wires from switch terminals.
4. Place ohmmeter probes on switch terminals. You should see an “infinite” reading on the meter.
5. With probes attached to switch, press the PUSH-TO-START switch button. You should read “0” (zero) ohms.

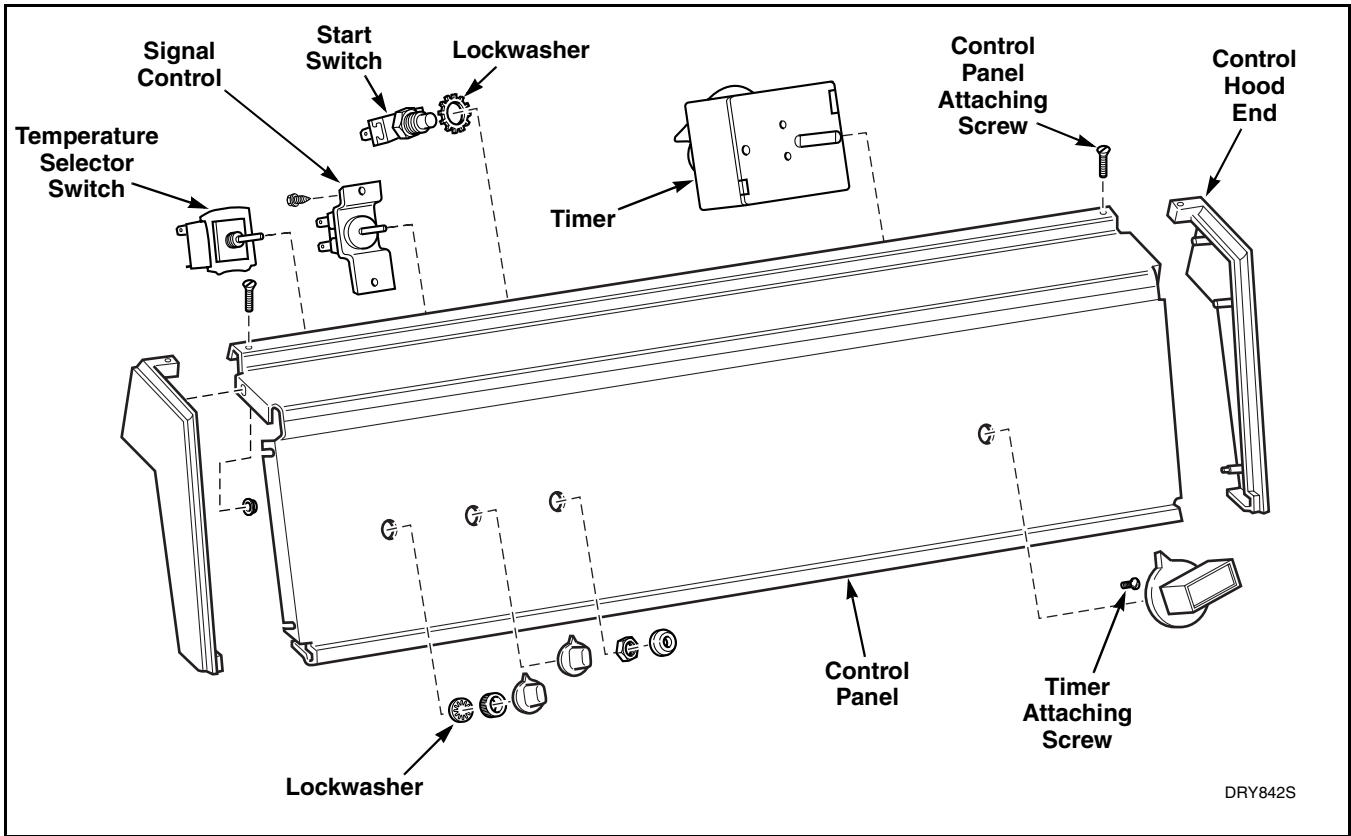


Figure 1

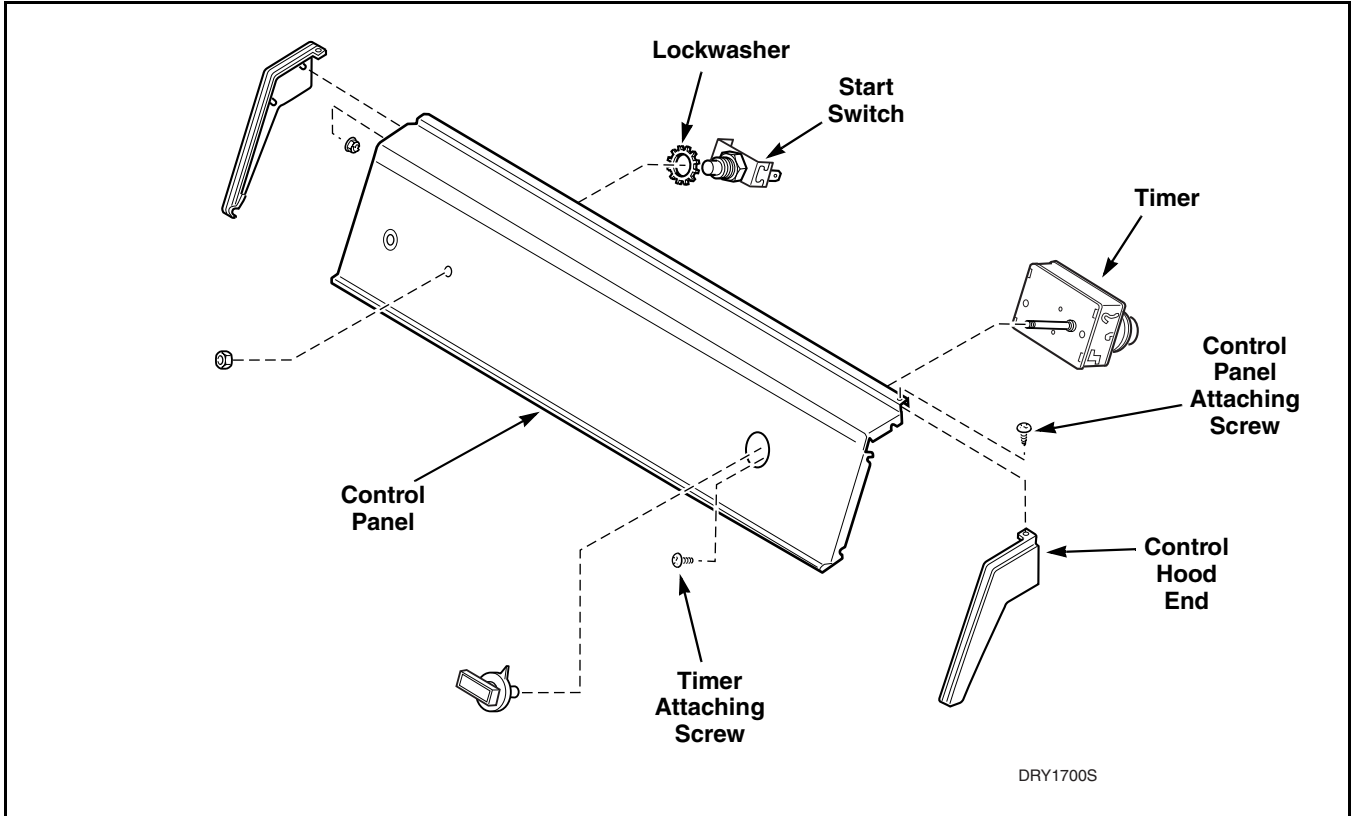


Figure 2



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1

To Test Timer Contacts

Refer to *Figure 3*

All Models:

1. Remove panel screws and lift assembly off panel support. Refer to *Figure 1* or *2*.
2. Disconnect wires from timer.

NOTE: Refer to appropriate wiring diagram when rewiring timer.

3. Set meter to read ohms and put meter probes to terminals:
 - a. L1 and M to test drive motor circuit.
 - b. L2 and H to test Heat Circuit.
 - c. L2 and T to test Timer Motor circuit.
 - d. B and P to test Buzzer circuit.
4. Starting with timer knob indicator in OFF position at top of timer, slowly turn timer knob clockwise until indicator is again pointing toward OFF position at top of timer. Meter should register “zero” reading when circuit being tested is completed by timer.

NOTE: Refer to appropriate wiring diagram for Timer Cycle Chart showing when circuit is made.

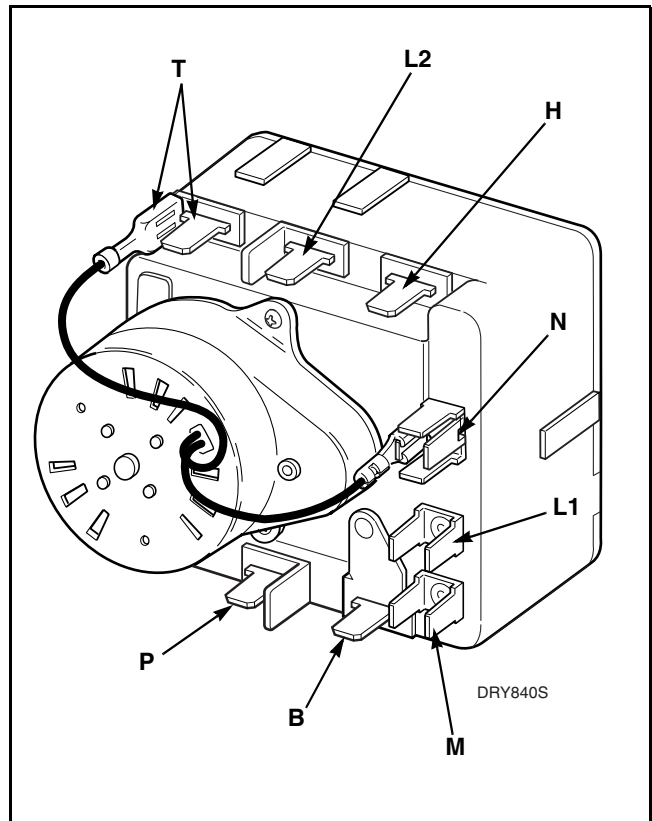


Figure 3



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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18. CONTROL PANEL

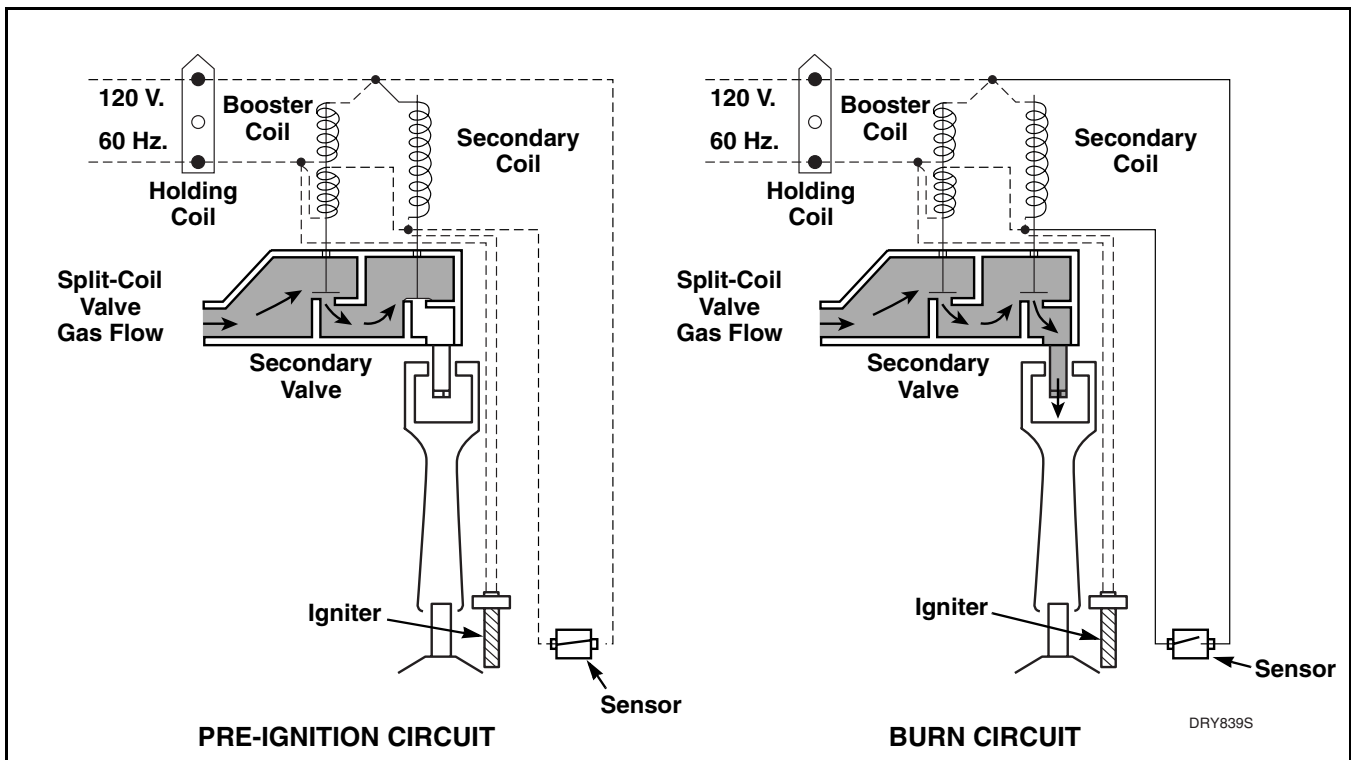
- a. Remove control panel attaching screws and lift assembly off panel support.
- b. Remove left and right control hood ends.
- c. Pull knob off timer shaft.
- d. Pull knob off SIGNAL control, if present.
- e. Pull knob off temperature selector switch, if present, and remove knurled nut and lockwasher holding switch in control panel.

NOTE: When reinstalling switch, lockwasher must be between knurled nut and control panel for grounding purposes.

- f. Remove hex nut holding start switch and lockwasher in control panel.

NOTE: When reinstalling switch, lockwasher must be between switch and control panel for grounding purposes.

- g. Remove three screws holding timer in control panel.





WARNING

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- **Close gas shut-off valve to gas dryer(s) before servicing.**
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- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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19. BURNER SYSTEM OPERATION

Refer to *Figure 4*

a. Components

- (1) This burner has four basic components:
 - (a.) A silicon carbide (glow bar) igniter
 - (b.) Burner tube
 - (c.) Sensor
 - (d.) Two-stage gas valve consisting of a split-coil valve and a secondary coil valve.
- (2) The split-coil valve is opened when the dryer thermostat calls for heat, while the secondary valve does not open until the igniter has attained ignition temperature.

b. Pre-Ignition Circuits

- (1) When the dryer thermostat calls for heat, circuits are completed through the holding coil, sensor, booster coil and igniter.
- (2) Both coils must be energized to open split-coil valve.
- (3) Once opened, the holding coil can hold the valve open without assistance from the booster coil.
- (4) The current shunted around the secondary coil by the sensor, passes through the igniter causing it to get hot.

c. Burn Circuit

- (1) In approximately 30 seconds, the igniter attains ignition temperature and the sensor (located on burner housing beside the igniter) contacts will open.
- (2) A circuit is then completed through the secondary valve coil, opening the valve and allowing gas to flow.
- (3) Ignition is made and the heat from the burner flame causes the sensor contacts to remain open.

20. IGNITION SYSTEM FEATURES

Refer to *Figure 4*

a. Momentary Power Interruption

- (1) Upon resumption of power, sensor contacts will still be open, permitting secondary valve to open.
- (2) However, with the secondary coil in the circuit, the booster coil cannot draw enough current to open the split-coil valve.
- (3) When sensor contacts do reclose, the secondary valve will close, and the burner system will be in the normal pre-ignition circuit.

b. Flame Failure

- (1) In case of flame failure, the sensor contacts will reclose in about 45 seconds.
- (2) This will close the secondary valve and the burner system will be in the normal pre-ignition circuit.

c. Ignition Failure

- (1) If flame is not established as sensor contacts open, secondary valve will remain open until sensor contacts reclose.
- (2) Sensor will continue to recycle the igniter and secondary valve (about once per minute) until ignition is made or dryer is turned off.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1

21. BURNER SYSTEM COMPONENTS — Gas Models

a. Complete Gas Valve Assembly.

- (1) Remove access door by applying thumb pressure to right edge of door. When door opens move door to the left to disengage from door supports. Refer to *Figure 5*.

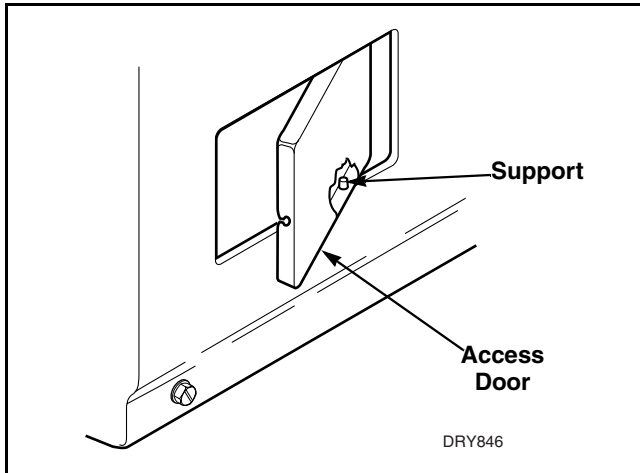


Figure 5

- (2) Close gas shut-off valve and disconnect wires from sensor and at quick disconnect blocks. Refer to *Figure 7*.
- (3) Loosen union nut between gas shutoff valve and nipple connector to gas valve. Unthread nut from nipple completely. Refer to *Figure 7*.
- (4) Remove three hex head screws holding valve and mounting bracket to base. Refer to *Figure 7*.
- (5) Lift gas valve and mounting bracket from base and carefully remove through access door opening.

NOTE: The holding coil, booster coil and secondary coil can be replaced individually or in a kit. Refer to the parts manual for the part numbers.

b. Burner Tube and Igniter

NOTE: Burner tube and igniter can be removed without removing gas valve and bracket.

To Test Gas Valve Coil Assembly

Refer to *Figure 6*

This procedure can be performed on workbench if gas valve, igniter, burner tube and burner housing are removed from dryer.

1. Disconnect electrical service and close gas shutoff valve.
2. Disconnect valve wire harness at moxex plug.
3. Set test meter to read ohms and put meter probes on BLUE and BLACK wire terminals on valve harness side of moxex plug.
4. Meter should read approximately 100 ohms with the igniter (glow bar) in the circuit. If reading goes to approximately 400 ohms, replace the igniter.
5. If meter registers other than approximately 100 ohms as explained in step 4, one of the coils has failed. Replace the coil assembly.

- (1) Remove one screw from right side of burner housing holding burner tube in place. Refer to *Figure 7*.
- (2) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 6*.
- (3) Carefully rotate burner tube and igniter **counterclockwise** so tab is at 8 o'clock position.
- (4) Move air shutter end of burner tube slightly to right and **CAREFULLY** remove burner tube and igniter assembly out through front of dryer.

IMPORTANT: Use care in removal so as not to damage or break igniter as it is very fragile.

IMPORTANT: Handle igniter by grasping the white ceramic portions only. **DO NOT** handle silicon carbide portion of igniter with hands or allow any oil, grease or other foreign material to contaminate it. Oil, grease and other impurities or hairline cracks will cause the igniter to burn out.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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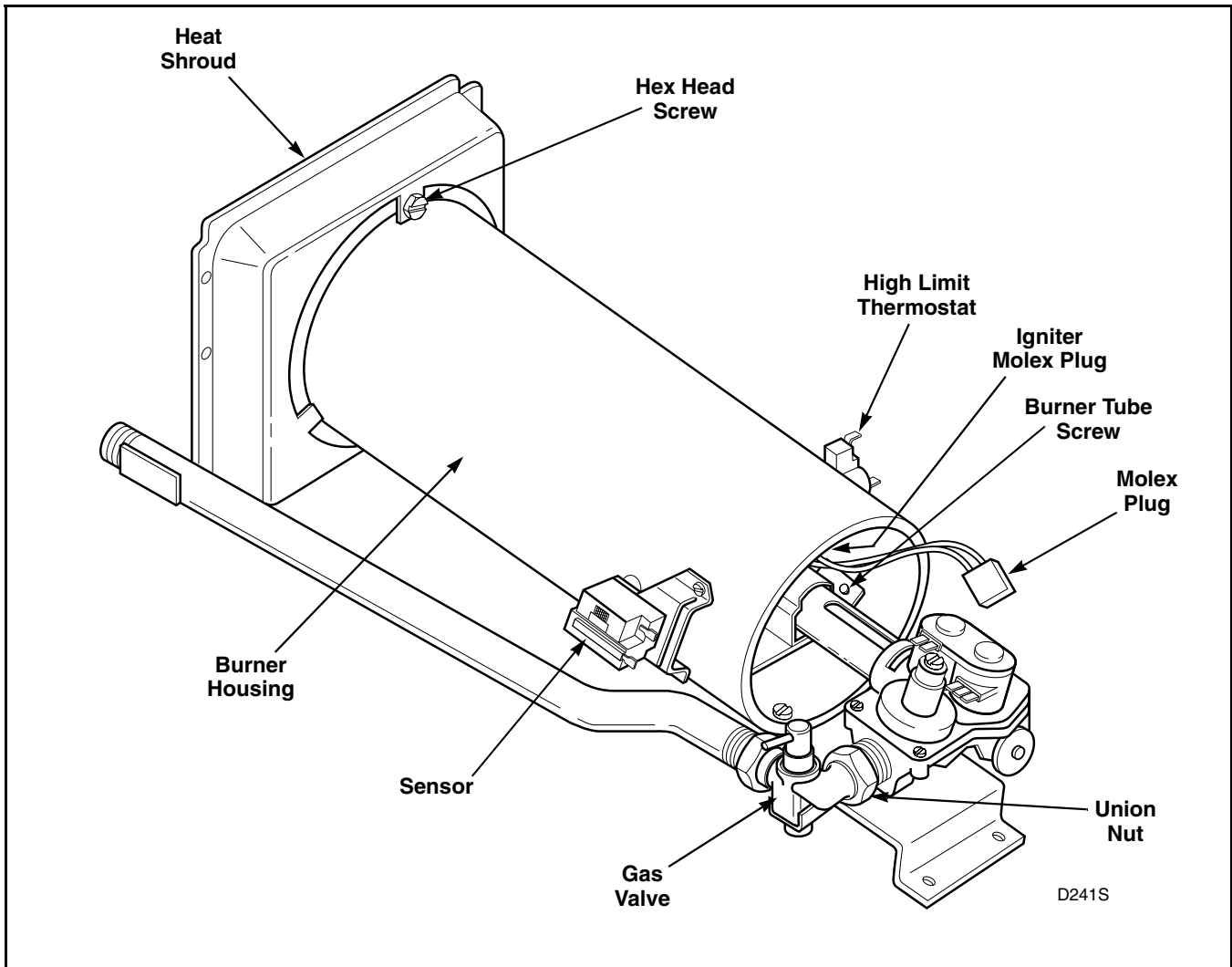


Figure 6

c. Igniter

Refer to *Figure 8*

- (1) Remove burner tube and igniter, *Paragraph b*, steps 1 through 4.
- (2) Carefully remove igniter by spreading mounting clips with a Tru-Arc pliers.

IMPORTANT: Use care in removal so as not to damage or break igniter as it is very fragile.

IMPORTANT: Handle igniter by grasping the white ceramic portions only. **DO NOT** handle silicon carbide portion of igniter with hands or allow any oil, grease or other foreign material to contaminate it. Oil, grease and other impurities or hairline cracks will cause the igniter to burn out.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1

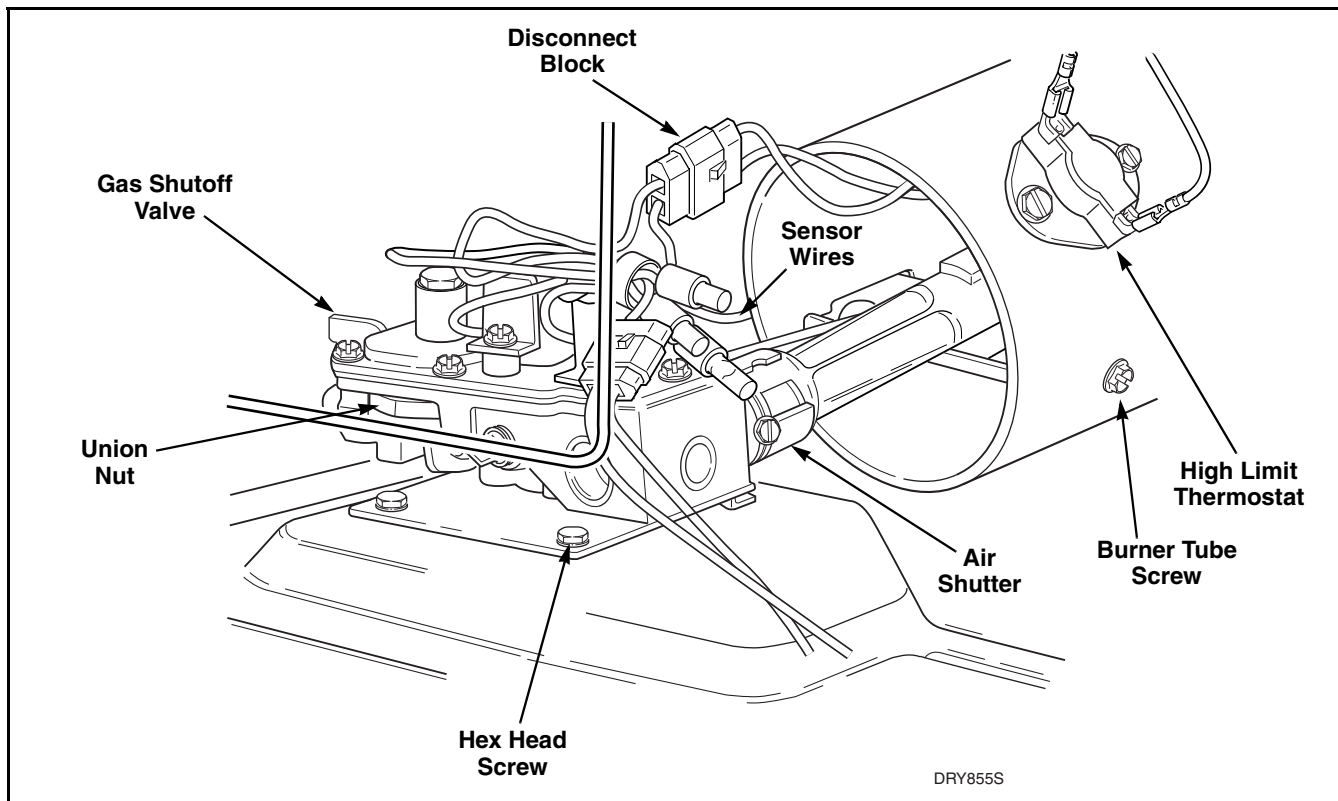


Figure 7

To Test Electrical Circuit to Ignition System

1. Disconnect valve wire harness from dryer harness at molex plug.
2. Plug dryer power cord into wall receptacle, set FABRIC switch and timer into positions calling for heat and start dryer.
3. Set test meter to read AC voltage and apply meter probes into PINK and WHITE wire terminals on dryer harness side of molex plug. Meter should register line voltage in all FABRIC selections except FLUFF which should read “zero” VAC.
4. If meter does not register as explained in step 3, check motor switch, *Paragraph 47* and timer motor circuit, *Paragraph 17*.

To Test Igniter

Refer to *Figure 6*

This procedure can be performed on workbench if gas valve, igniter, burner tube and burner housing are removed from dryer.

1. Disconnect igniter wires at molex plug.
2. Set test meter to read ohms and put meter probes on terminals of igniter wires.
3. Meter should register an ohm reading of at least 40 ohms at the minimum. If meter does not register any ohms or less than 40 ohms, replace the igniter.

IMPORTANT: Always examine all wires, terminals, connectors and terminal connections to be sure wiring and connectors are correct before replacing components.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1

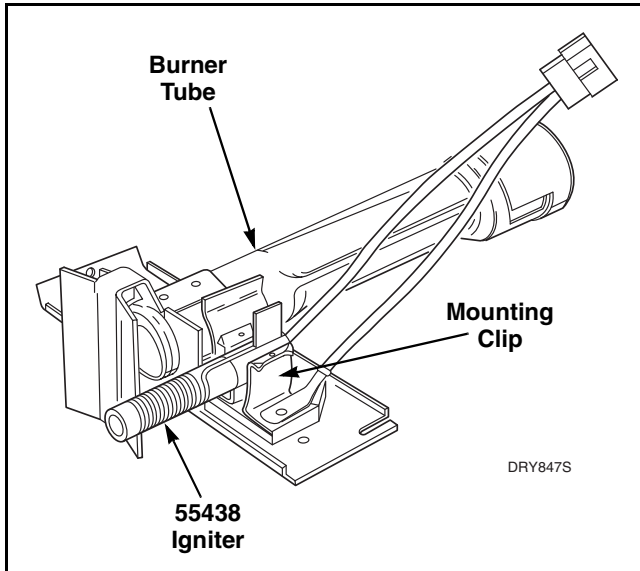


Figure 8

To Test Sensor Refer to Figure 6

This procedure can be performed on workbench if gas valve, igniter, burner tube and burner housing are removed from dryer.

1. Remove wires from sensor terminals.
2. Set test meter to read ohms and put meter probes on sensor terminals. Meter should read "zero" ohms. If meter registers an ohm reading of any amount, replace sensor.

d. Sensor

Refer to Figure 6

- (1) Remove access door by applying thumb pressure to right edge of door. When door opens, move door to the left to disengage from door supports. Refer to Figure 5.
- (2) Remove wires from sensor terminals.
- (3) Remove screw holding sensor to burner housing.

e. High Limit Thermostat

Refer to Figure 6

- (1) Remove access door by applying thumb pressure to right edge of door. When door opens, move door to the left to disengage from door supports. Refer to Figure 5.
- (2) Remove wires from thermostat.
- (3) Remove two hex head screws holding thermostat to burner housing and remove thermostat.

22. FRONT PANEL AND PANEL SEAL

Refer to Figure 9

- a. Remove two screws from bottom edge of front panel.
- b. Swing bottom of panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- c. Disconnect wires from door switch.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

- d. Remove front panel seal from flange around inside of door opening.

NOTE: Be sure seal is properly positioned when installing on front panel.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1

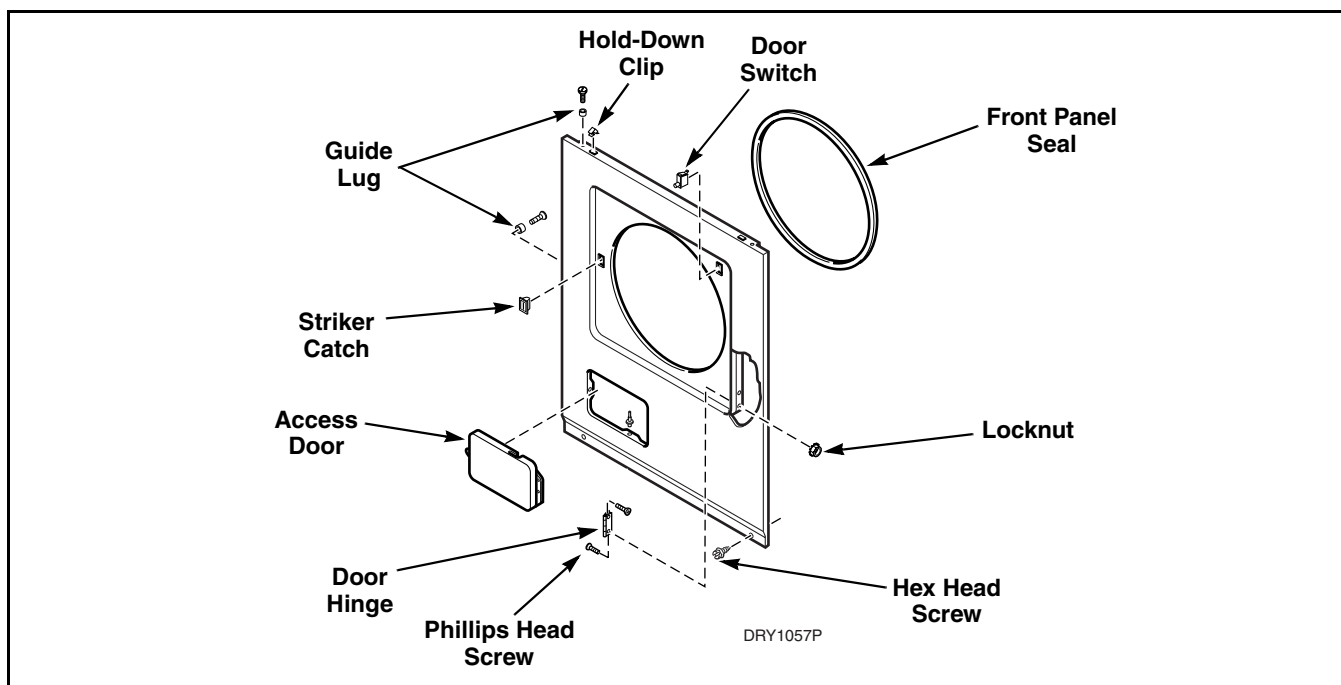


Figure 9

23. BURNER HOUSING

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Close gas shutoff valve and disconnect wires from sensor, at disconnect blocks. Refer to *Figure 7*.
- c. Loosen union nut between gas shutoff valve and nipple connector to gas valve. Unthread nut from nipple completely. Refer to *Figure 7*.
- d. Remove screws holding valve and bracket to base. Refer to *Figure 7*.
- e. Lift gas valve and mounting bracket from base and carefully remove out through front of dryer.
- f. Remove screw from right side of burner housing holding burner tube in place. Refer to *Figure 7*.
- g. Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 6*.
- h. Carefully rotate burner tube and igniter counterclockwise to tab is at 8 o’clock position.

- i. Move air shutter end of burner tube slightly to right and CAREFULLY remove burner tube and igniter assembly out through front of dryer.

IMPORTANT: Use care in removal so as not to damage or breaker igniter as it is very fragile.

- j. Remove hex head screw holding burner housing to heat shroud and remove housing out through front of dryer. Refer to *Figure 6*.

24. HEAT SHROUD

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove burner housing, *Paragraph 23*, steps “b” through “j”.
- c. Remove four hex head screws holding shroud to heater box and remove shroud out through front of dryer. Refer to *Figure 6*.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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25. TERMINAL BLOCK OR POWER CORD

a. Terminal Block – Electric Models (Refer to *Figure 10*)

- (1) Remove access plate on rear of cabinet.
- (2) Remove all wires from terminal block.

NOTE: Refer to appropriate wiring diagram when rewiring terminal block.

- (3) Remove screws holding terminal block to bracket.

NOTE: Do not let terminal block shield drop when removing the block. Shield must be in place when reinstalling block.

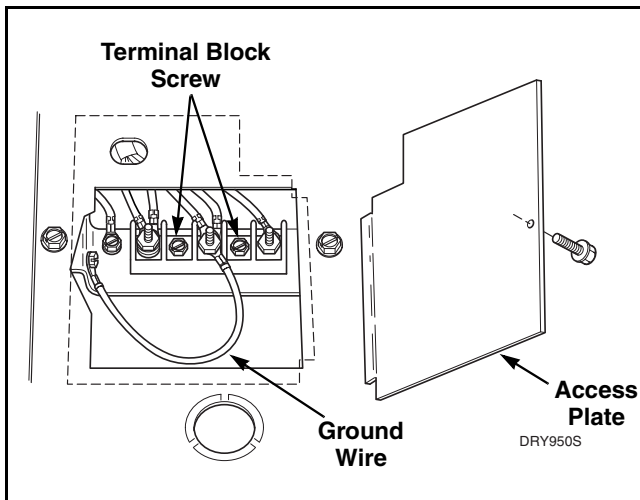


Figure 10

b. Power Cord – Gas Models

- (1) Remove access plate on rear of cabinet.
- (2) Remove strain relief.
- (3) Remove screw holding power cord ground wire to terminal block bracket.

NOTE: Reconnect ground wire into same hole in bracket when reinstalling power cord.

- (4) Disconnect molex plug and remove strain relief and power cord from rear of dryer cabinet.

26. LOADING DOOR

- a. Remove four Phillips head screws holding hinges to door. Refer to *Figure 11*.

27. INNER AND OUTER DOOR PANELS AND DOOR HANDLE

Refer to *Figure 12*

- a. Remove loading door. Refer to *Paragraph 26*.
- b. Remove two hex head screws holding handle to door.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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28. DOOR STRIKER

Refer to *Figure 12*

- a. Remove two hex head screws holding handle to door.
- b. Spread door panels just far enough to depress tabs on top and bottom of striker and push out of inner door panel. Refer to *Figure 12*.

29. DOOR SEAL

Refer to *Figure 12*

- a. Open loading door and remove seal from inner door panel.

NOTE: When replacing, be sure seal is not stretched or distorted and a heat resistant adhesive is used.

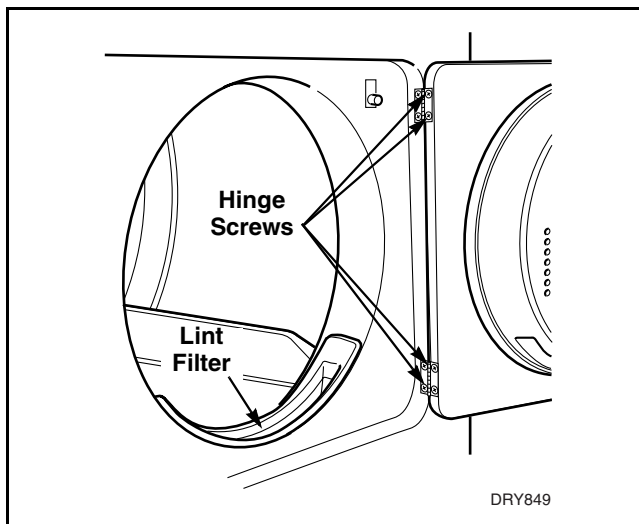


Figure 11

30. LINT FILTER

Refer to *Figure 11*

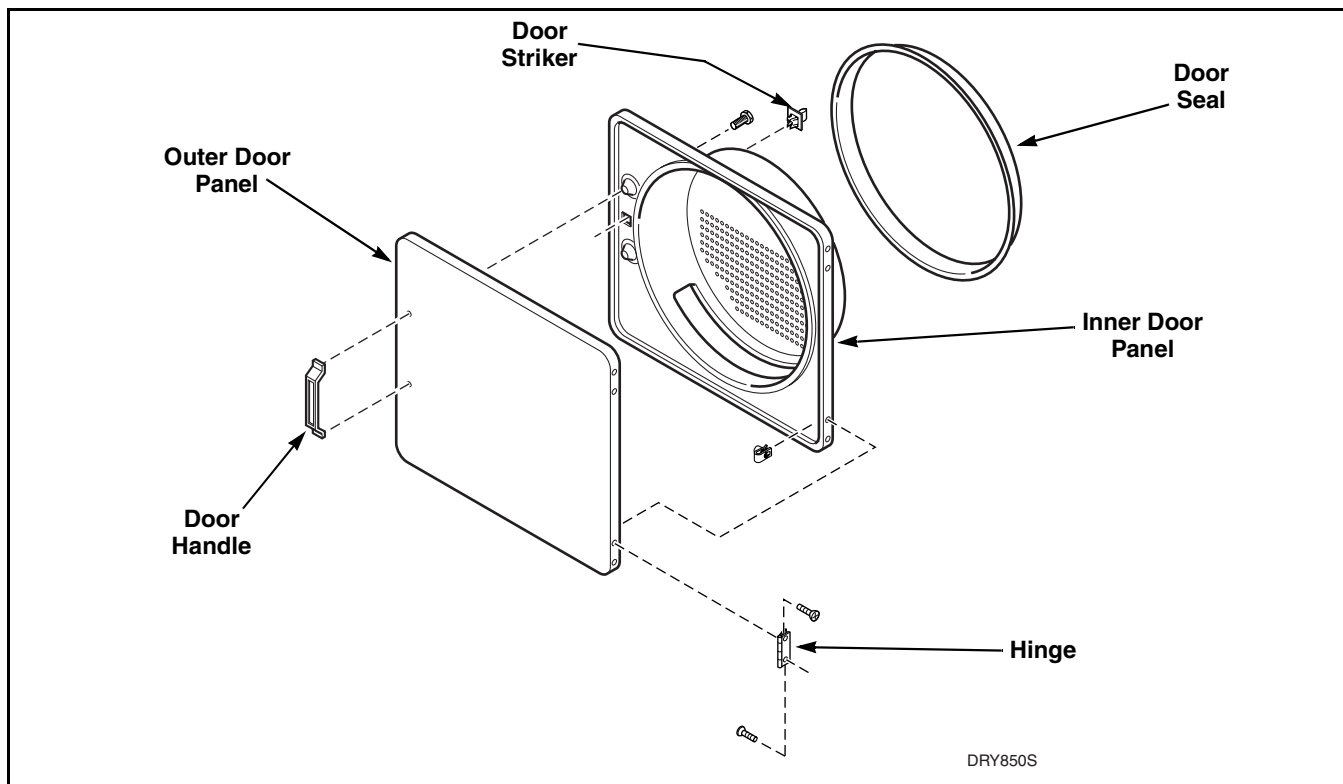


Figure 12



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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31. STRIKER CATCH

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Depress tabs on top and bottom of catch and push out of front panel. Refer to *Figure 9*.

32. DOOR HINGE

- a. Open loading door and remove four screws holding door assembly to hinges. Refer to *Figure 11*.
- b. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- c. Remove four Phillips head screws and locknut holding hinges to front panel. Refer to *Figure 9*.

33. HOLD-DOWN CLIPS AND GUIDE LUGS

Refer to *Figure 9*

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Compress hold-down clips and remove from slot in top flange of front panel.
- c. Remove four screws holding four guide lugs to front panel, *Figure 9*.

34. DOOR SWITCH

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Depress tabs on top and bottom of switch and push out of front panel. Refer to *Figure 13*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

To Test Door Switch

1. Set test meter to read ohms and put meter probes on switch terminals 1 and 3 with door closed. You should get “zero” reading.
2. Apply probes to terminals 1 and 2 with door closed. The meter should read “infinite.”
3. Open door. Meter should read “infinite” between 1 and 3 and “zero” between 1 and 2.

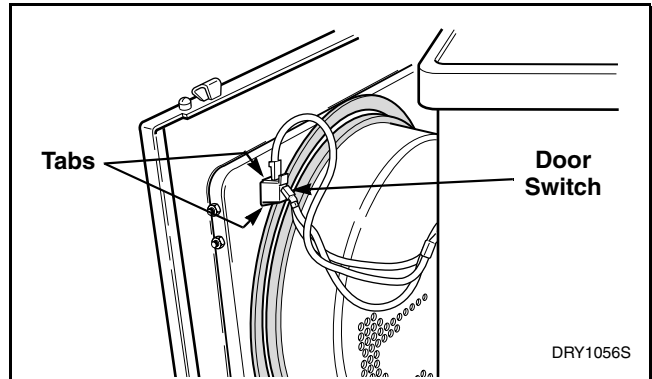


Figure 13

35. CYLINDER LIGHT

- a. Open loading door and remove bulb through top opening in the front bulkhead by pushing up and turning bulb to the left. Refer to *Figure 14*.

36. CYLINDER LIGHT RECEPTACLE

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Disconnect wires at connectors.
- c. Remove two Phillips head screws holding receptacle to front bulkhead. Refer to *Figure 14*.

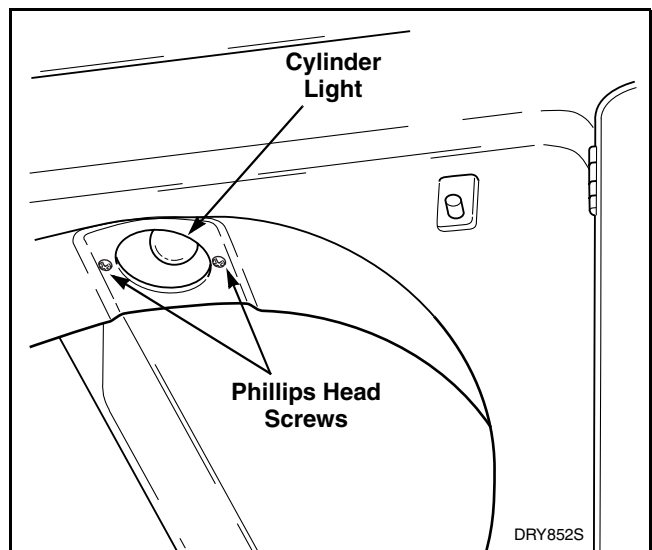


Figure 14



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1

37. HIGH OR LOW THERMOSTAT

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Refer to *Figure 15* for thermostat removal.

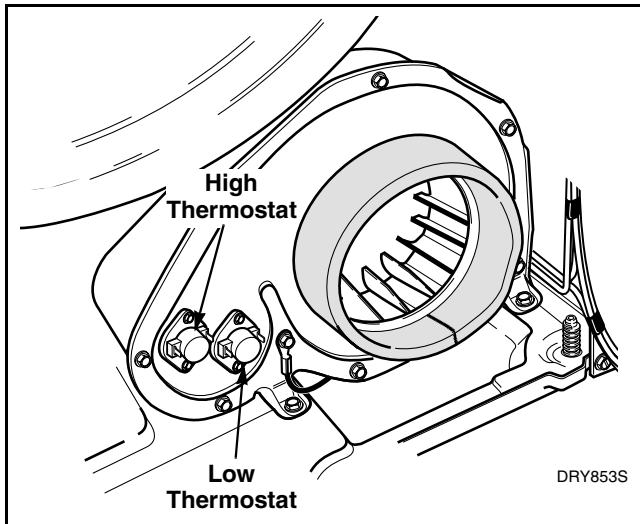


Figure 15

38. LIMIT THERMOSTAT

- a. **Electric Models:**
 - (1) Remove front panel, *Paragraph 22*, steps “a” through “d”.
 - (2) Refer to *Figure 15* for thermostat removal.

NOTE: The cabinet top will have to be removed on models equipped with the thermostat on the heater box.

- b. **Gas Models:**
 - (1) Remove access door by applying thumb pressure to right edge of door. When door opens, move door to left to disengage from door supports.
 - (2) Refer to *Figure 16* for thermostat removal.

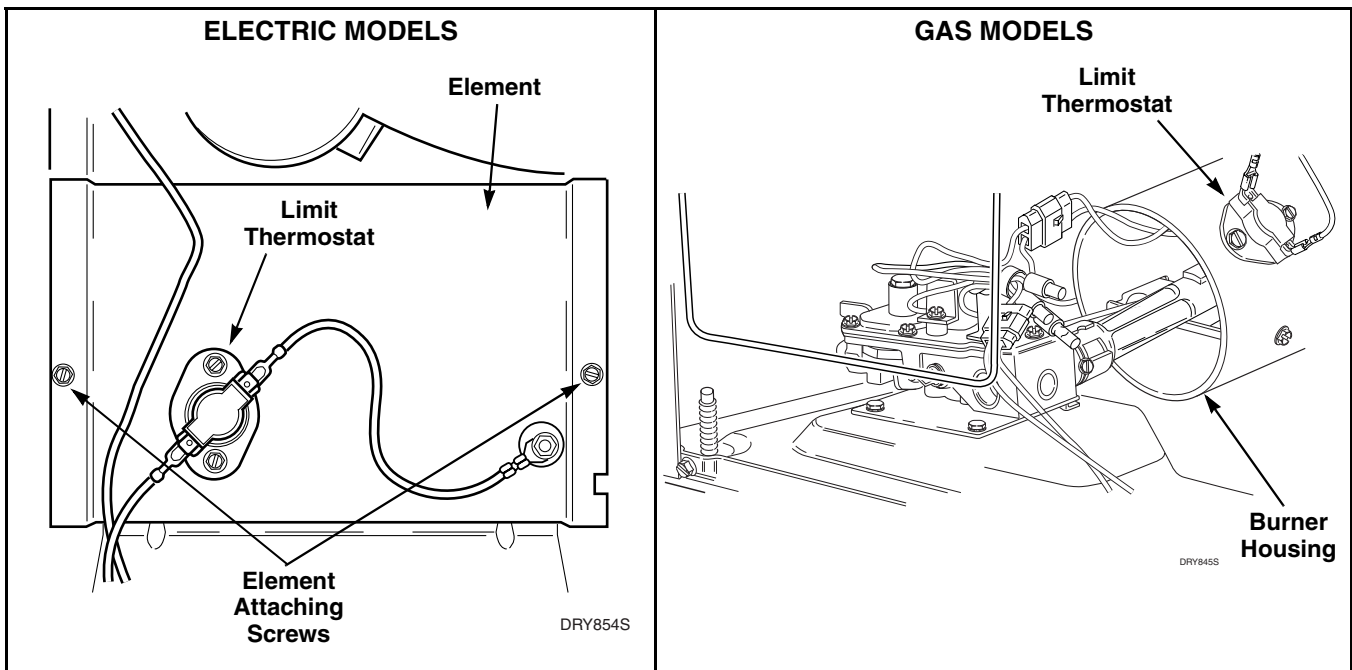


Figure 16



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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39. HEATING ELEMENT

- Remove front panel, *Paragraph 22*, steps “a” through “d”.
- Remove two hex head screws holding element and plate to heater box and pull element down and away from heater box. Refer to *Figure 16*.

NOTE: When reassembling, be sure all wire connections are tight on element terminals and high limit thermostat.

40. CABINET TOP

- Remove front panel, *Paragraph 22*, steps “a” through “d”.
- Remove control panel, *Paragraph 18, Figure 1* or 2.
- Disconnect wire harness from all components and ground wire in control hood. Push harness through opening in cabinet top. (Replace control panel or set aside to prevent damage.)

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

- Remove two cabinet top hold-down screws. Refer to *Figure 17*.
- Lift front of cabinet top and disengage from hinges on rear of cabinet. Refer to *Figure 18*.
- Remove brace from under side of cabinet top by swinging one end to front or rear.
- Remove control hood and panel support if necessary when replacing the cabinet top.

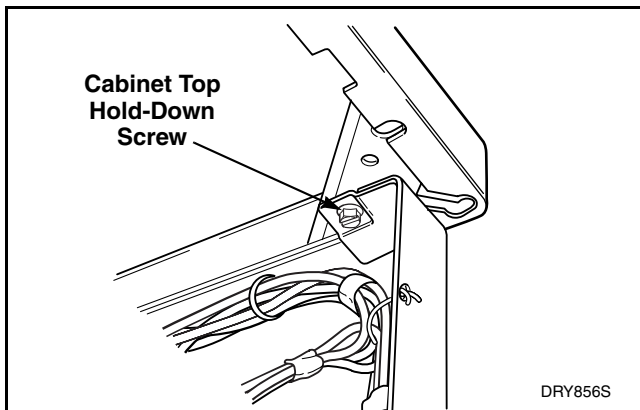


Figure 17

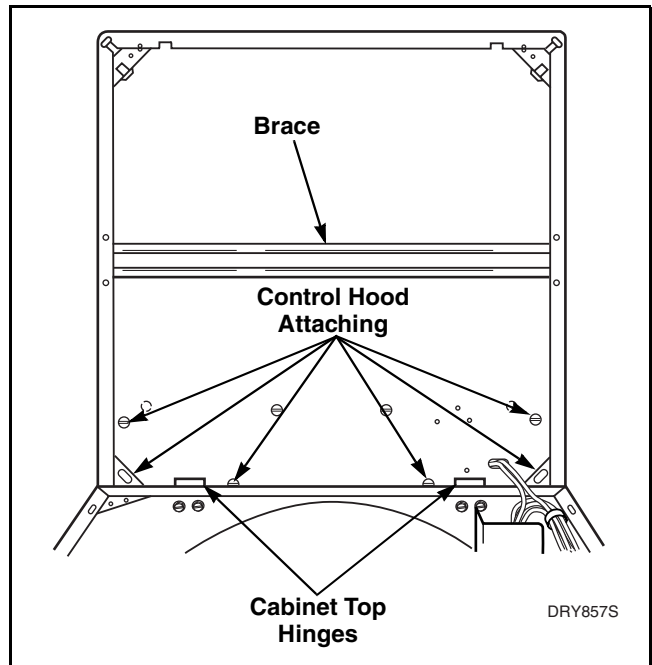


Figure 18

NOTE: Cabinet top may be raised and hinged on the rear hold-down brackets or supported against wall behind dryer when servicing.

41. CONTROL HOOD

- Remove control panel and support bracket, *Paragraph 18, Figure 1* or 2. Disconnect all wires.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

- Remove or raise cabinet top. Refer to *Paragraph 40*.
- Support hood and remove six screws holding control hood to cabinet top. Refer to *Paragraph 40*.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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42. FRONT AIR DUCT

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove lint filter. Refer to *Figure 10*.
- c. Remove hex head screws holding air duct to front bulkhead and lift off. Refer to *Figure 19*.

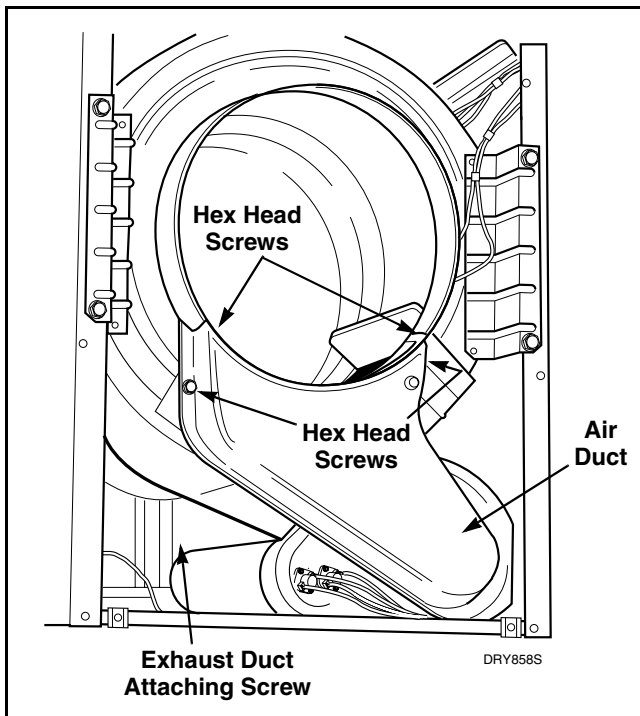


Figure 19

IMPORTANT: When reassembling be sure felt seal on exhaust fan cover makes air tight seal on flange of air duct. Refer to *Figure 20*

43. EXHAUST DUCT

- a. Disconnect electric power, vent (and gas line if necessary) and move unit to gain access to rear of dryer.
- b. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- c. Remove one hex head screw holding bracket on exhaust duct to rear of cabinet. Refer to *Figure 19*.
- d. Pull duct out through rear of cabinet.

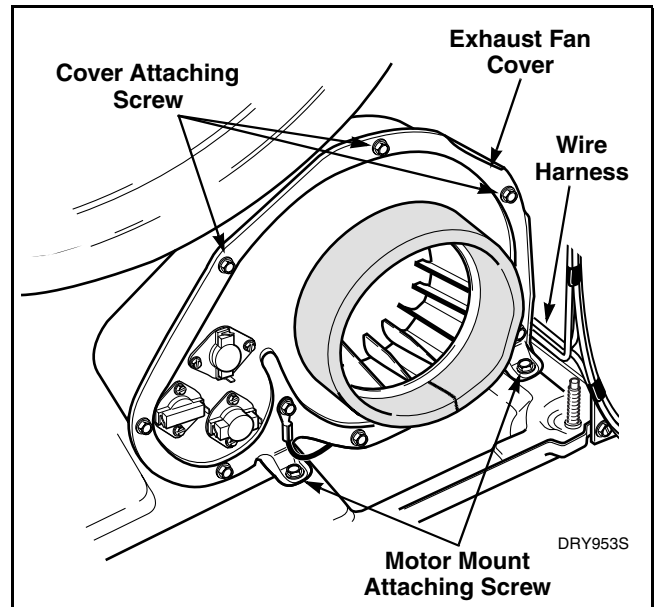


Figure 20

44. EXHAUST FAN COVER

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove lint filter. Refer to *Figure 11*.
- c. Remove hex head screws holding air duct to front bulkhead and lift off. Refer to *Figure 19*.

NOTE: When reassembling, be sure felt seal on exhaust fan cover makes air tight seal on flange of air duct. Refer to *Figure 20*.

- d. Remove wires from thermostats.

NOTE: Refer to appropriate wiring diagram when rewiring thermostats.

- e. Remove hex head screws holding cover to housing. Refer to *Figure 20*.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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45. MOTOR AND EXHAUST ASSEMBLY

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove lint filter. Refer to *Figure 11*.
- c. Remove hex head screws holding air duct to front bulkhead and lift off. Refer to *Figure 19*.

NOTE: When reassembling, be sure felt seal on exhaust fan cover makes air tight seal on flange of air duct. Refer to *Figure 20*.

- d. Disconnect wires from thermostats.

NOTE: Refer to appropriate wiring diagram when rewiring thermostats.

- e. Remove cylinder belt from idler and motor pulleys.
- f. Remove two screws holding motor mounting bracket to dryer base. Refer to *Figure 20*. Then pull complete assembly out through front of dryer.
- g. Disconnect wires from motor switch.

NOTE: Refer to appropriate wiring diagram when rewiring motor switch.

IMPORTANT: When reinstalling motor and exhaust assembly, be sure wire harness on right side is clipped to motor mounting bracket and is routed along dryer base (between motor mounting bracket and right side of cabinet). Refer to *Figure 20*. Tab on rear of motor mounting bracket must be slid into slot in dryer base. Exhaust duct **MUST BE** reinstalled on rear flange of exhaust housing.

46. IMPELLER AND HOUSING

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove motor and exhaust assembly, *Paragraph 45*, steps “b” through “g”.
- c. Hold motor pulley securely and unthread impeller from motor shaft (right hand thread).
- d. Remove three hex head screws and washers which hold the exhaust housing to motor mounting bracket. Refer to *Figure 21*.

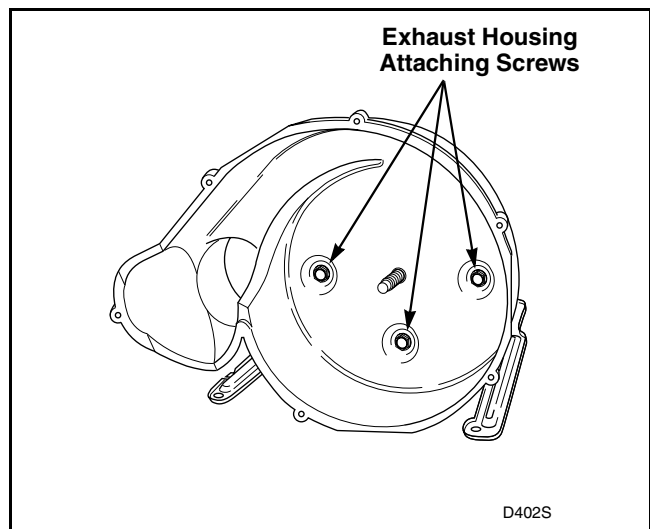


Figure 21



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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47. MOTOR

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove motor and exhaust assembly, *Paragraph 45*, steps “b” through “g”.
- c. Hold motor pulley securely and unthread impeller from motor shaft (right hand thread).
- d. Remove the three screws and washers which hold the exhaust housing to the motor mounting bracket. Refer to *Figure 21*.
- e. Disconnect wires from motor switch and ground wire from motor.

NOTE: Refer to appropriate wiring diagram when rewiring motor switch.

- f. Remove two motor strap assemblies holding motor in mounting bracket. Refer to *Figure 22*. Then lift motor out of mounting bracket.

NOTE: When replacing motor, motor switch location should be at 10 o'clock. Refer to *Figure 22*.

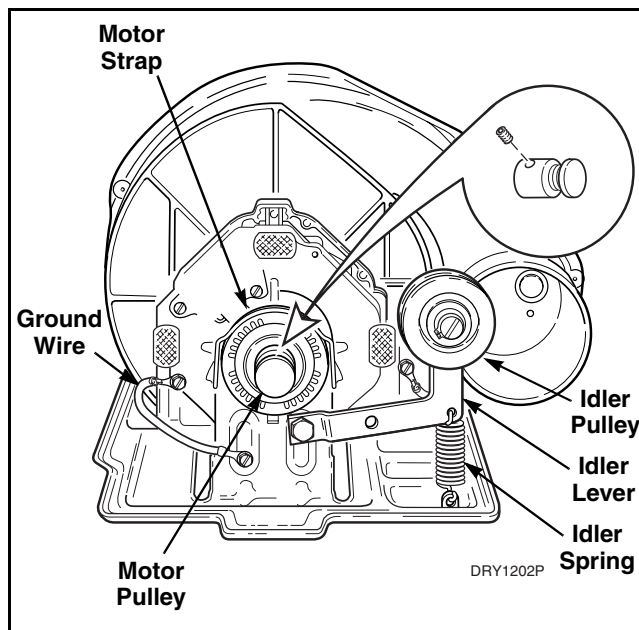


Figure 22

TO REMOVE MOTOR SWITCH

- a. Remove two screws holding switch to motor.
- b. Disconnect internal motor leads from switch terminals.

NOTE: Refer to wiring schematic, *page 45*, when rewiring internal motor switch leads.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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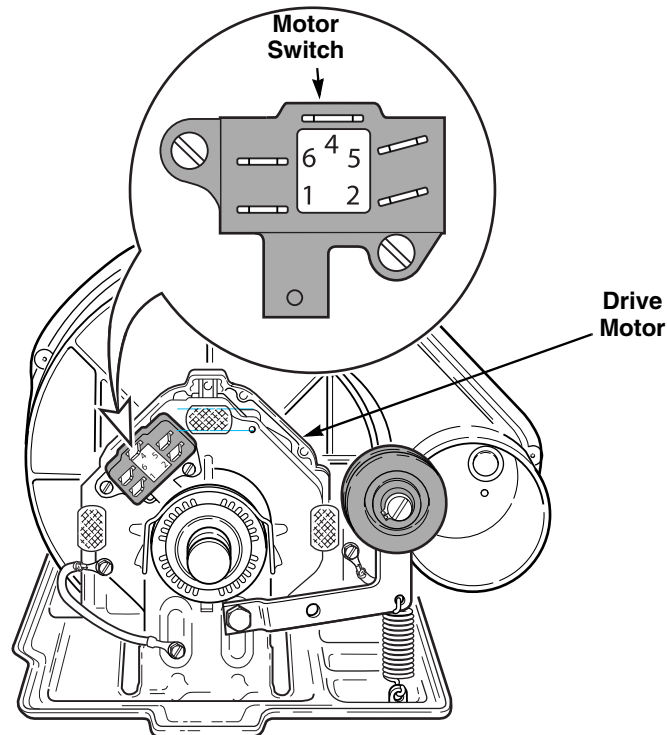
To Test Drive Motor

Refer to *Figure 23*

1. Remove motor.
2. Disconnect wires from motor switch.

NOTE: Refer to appropriate wiring diagram when rewiring motor switch.

3. Put test meter probes on terminals 4 and 5. Meter should read approximately one ohm on ohm scale.
4. Put test meter probes on terminal 4 and motor frame. Meter should register “no reading” or infinite.
5. Put test meter probes on terminal 5 and motor frame. Meter should register “no reading” or infinite.
6. Put test meter probes on terminals 4 and 6. Meter should register “no reading” or infinite. Manually flex the centrifugal switch in motor and meter should read approximately two ohms on ohm scale.
7. Put test meter probes on terminals 1 and 2. Meter should register “no reading”. Manually flex the centrifugal switch in motor and meter should read “zero ohms”.



DRY838S

Figure 23



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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48. MOTOR PULLEY AND IDLER PULLEY ASSEMBLIES

- Remove front panel, *Paragraph 22*, steps “a” through “d”.
- Remove motor and exhaust assembly, *Paragraph 45*, steps “b” through “g”.
- Refer to *Figure 22* for motor and idler pulley removal.

49. FRONT BULKHEAD ASSEMBLY

- Remove front panel, *Paragraph 22*, steps “a” through “d”.
- If present, disconnect cylinder light wires at connectors.
- Remove four cabinet attaching screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 24*.
- Remove cylinder glides. Refer to *Figure 25*.

NOTE: Front air duct will be removed with the bulkhead unless previously removed in *Paragraph 42*.

- If present, remove two Phillips head screws holding light receptacle to front bulkhead. Refer to *Figure 14*.

TO REMOVE FRONT CYLINDER SEAL

- Unhook spring from seal strap. Refer to *Figure 25*.

IMPORTANT: When installing seal, tape it to the bulkhead in several places to hold in position while replacing seal strap and spring. Seal must be under strap securely and be folded under flanged edge around entire bulkhead. Strap must be installed with cupped surface down against the seal to hold the felt seal more firmly in place on the bulkhead. Also the seal can be adhered to the bulkhead using 3M-1300 Sealant (obtain locally). This is accomplished by applying a bead of 3M-1300 Sealant around the entire flanged area where the felt seal contacts the bulkhead.

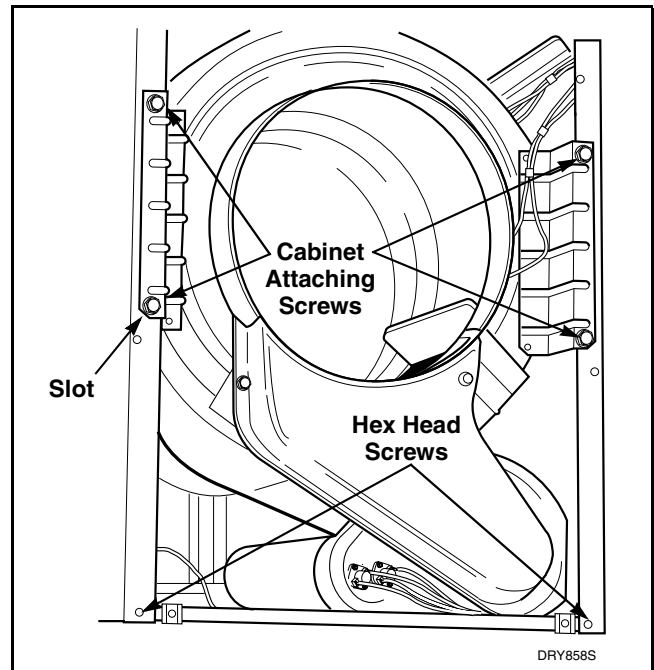


Figure 24

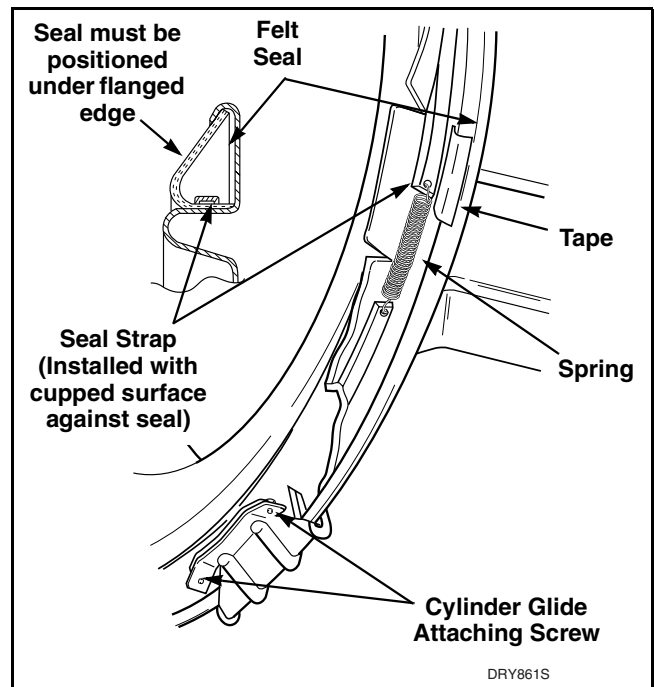


Figure 25



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1

50. CYLINDER BELT

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. If present, disconnect cylinder light wires at connectors.
- c. Remove four hex head screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 24*.
- d. Disengage belt from motor and idler pulleys. Refer to *Figure 26*.
- e. While supporting cylinder, carefully remove belt off cylinder.

NOTE: When installing belt, be sure it is properly positioned around cylinder and on motor and idler pulleys. Refer to *Figure 26*.

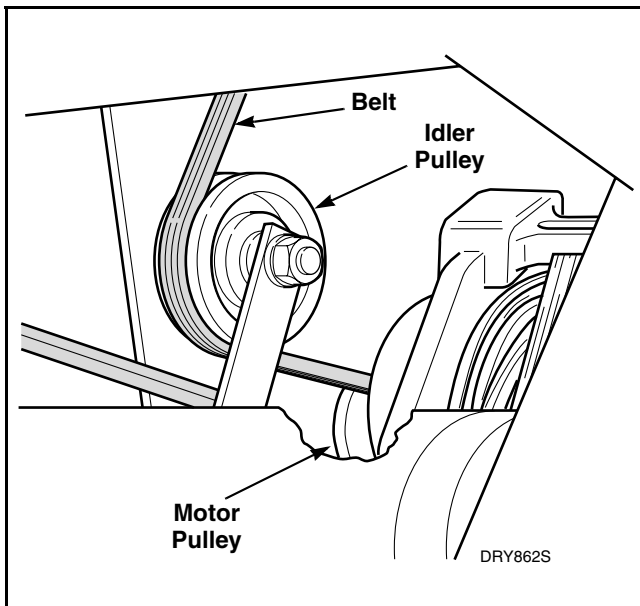


Figure 26

51. CYLINDER ASSEMBLY

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. If present, disconnect cylinder light wires at connectors.
- c. Remove four hex head screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 24*.
- d. Disengage belt from motor and idler pulleys. Refer to *Figure 26*.
- e. Remove two cabinet top hold-down screws. Refer to *Figure 17*.
- f. Carefully remove cylinder out through front of dryer.

NOTE: When reinstalling cylinder, be sure belt is properly position around cylinder and on motor and idlers pulleys. Refer to *Figure 26*.

TO REMOVE BAFFLES

- a. Remove screws and washers (if present) holding baffles to cylinder. Refer to *Figure 27*.

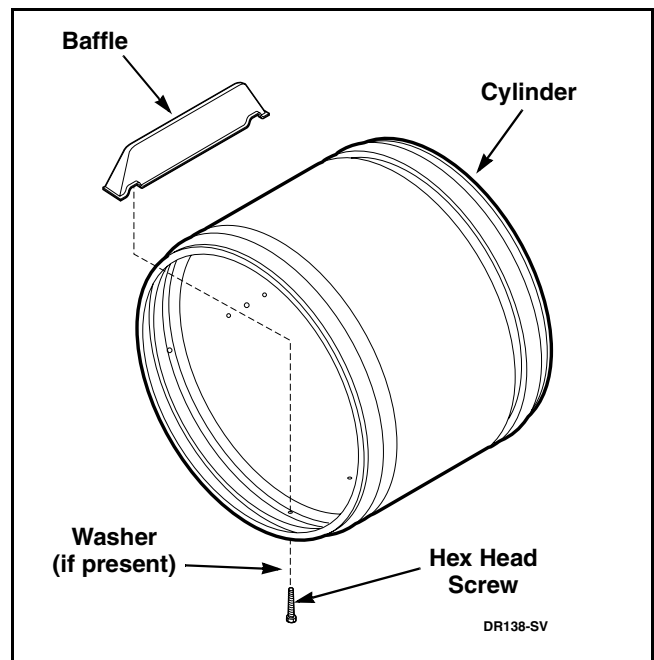


Figure 27



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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52. REAR SEAL

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove two cabinet top hold-down screws. Refer to *Figure 17*.
- c. Lift front of cabinet top and disengage from hinges on rear of cabinet. Refer to *Figure 18*.

NOTE: Cabinet top may be raised and hinged on the rear hold-down brackets, or supported against wall behind the dryer.

- d. Carefully remove cylinder out through front of dryer.

NOTE: When installing cylinder, be sure belt is properly positioned around cylinder and on motor and idler pulleys. Refer to *Figure 26*.

IMPORTANT: When installing seal, tape it to the bulkhead in several places to hold in position while replacing seal strap and spring. Remove tape after strap and seal are in place. Seal must be under strap securely and be folded under flanged edge around entire bulkhead. Strap must be installed with cupped surface down against the seal to hold the felt seal more firmly in place on the bulkhead. Also the seal can be adhered to the bulkhead using 3M-1300 Sealant (obtain locally). This is accomplished by applying a bead of 3M-1300 Sealant around the entire flanged area where the felt seal contacts the bulkhead.

53. CYLINDER ROLLERS AND ROLLER SHAFT

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove cylinder assembly, *Paragraph 51*, steps “b” through “f”.
- c. Refer to *Figure 28* for removal of roller from roller shaft.

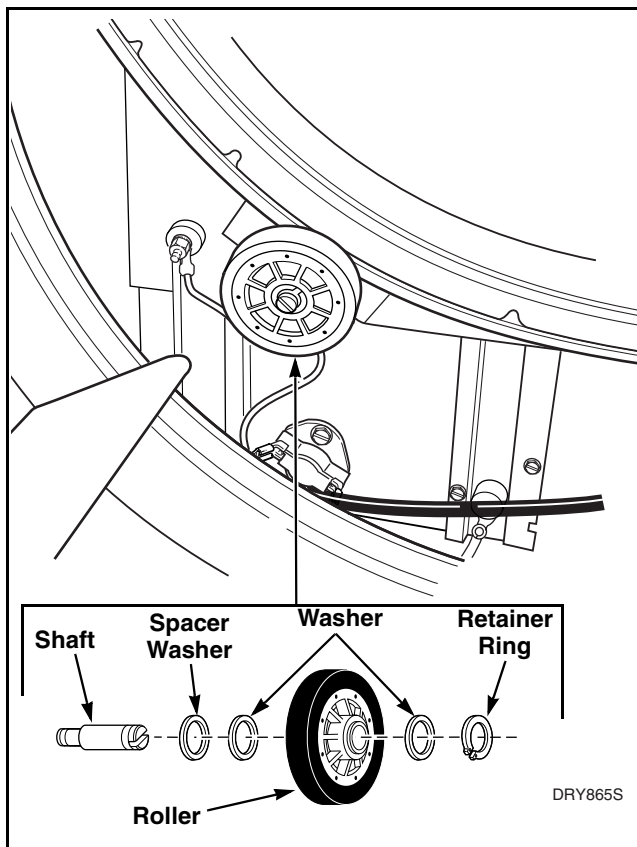


Figure 28

54. REAR BULKHEAD AND HEATER BOX

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove cylinder assembly, *Paragraph 51*, steps “b” through “f”.
- c. **Gas Models:**
 - (1) Remove burner housing, *Paragraph 23*, steps “b” through “j”.
 - (2) Remove four hex head screws holding heat shroud to heater box, then remove shroud out through front of dryer. Refer to *Figure 6*.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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d. Electric Models:

- (1) Remove two hex head screws holding element and plate to heater box, then pull element down and away from heater box. Refer to *Figure 16*.
- (2) Disconnect wires from element terminals and from high limit thermostat.

NOTE: When reassembling, be sure all wire connections are tight on element terminals and to high limit thermostat.

- e. Remove two hex head screws holding heater box to heat shield. Refer to *Figure 29*.
- f. Remove one Phillips head screw holding rear bulkhead to terminal block bracket. While supporting bulkhead, remove the four Phillips head screws holding rear bulkhead to mounting brackets. Refer to *Figure 29*. Then lift complete assembly out of dryer.

TO REMOVE HEATER BOX FROM REAR BULKHEAD

- g. Refer to *Figure 30* for removal.

55. HEAT SHIELD

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove cylinder assembly, *Paragraph 51*, steps “b” through “f”.
- c. **Gas Models:**
 - (1) Remove burner housing, *Paragraph 23*, steps “b” through “j”.
 - (2) Remove four hex head screws holding heat shroud to heater box, then remove shroud out through front of dryer. Refer to *Figure 6*.
- d. **Electric Models:**
 - (1) Remove two hex head screws holding element and plate to heater box, then pull element down and away from heater box. Refer to *Figure 16*.
 - (2) Disconnect wires from element terminals and from high limit thermostat.

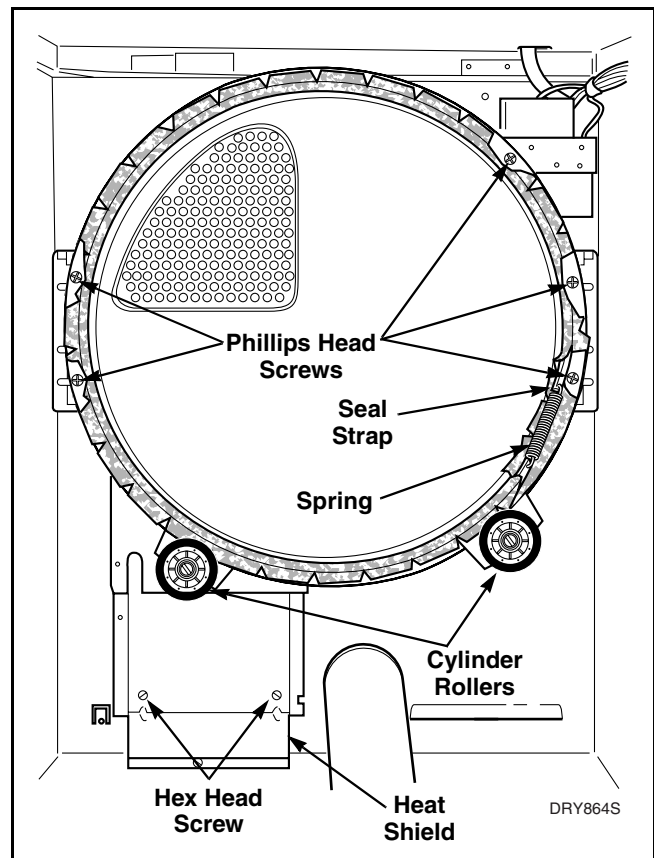


Figure 29

NOTE: When reassembling, be sure all wire connections are tight on element terminals and to high limit thermostat.

- e. Remove two hex head screws holding heater box to heat shield. Refer to *Figure 29*.
- f. Disconnect vent and move dryer to gain access to rear of dryer.
- g. Remove two hex head screws holding heat shield to rear of dryer cabinet. Refer to *Figure 31*.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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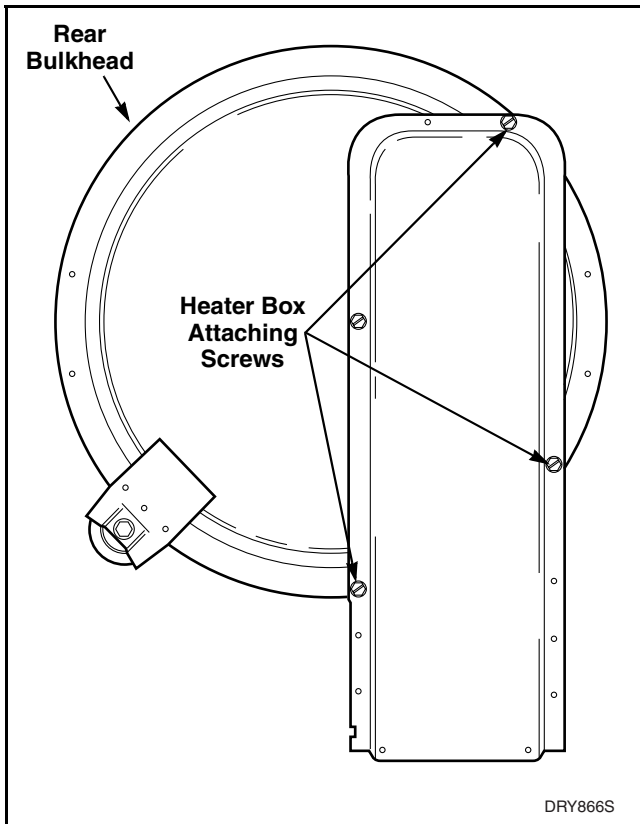


Figure 30

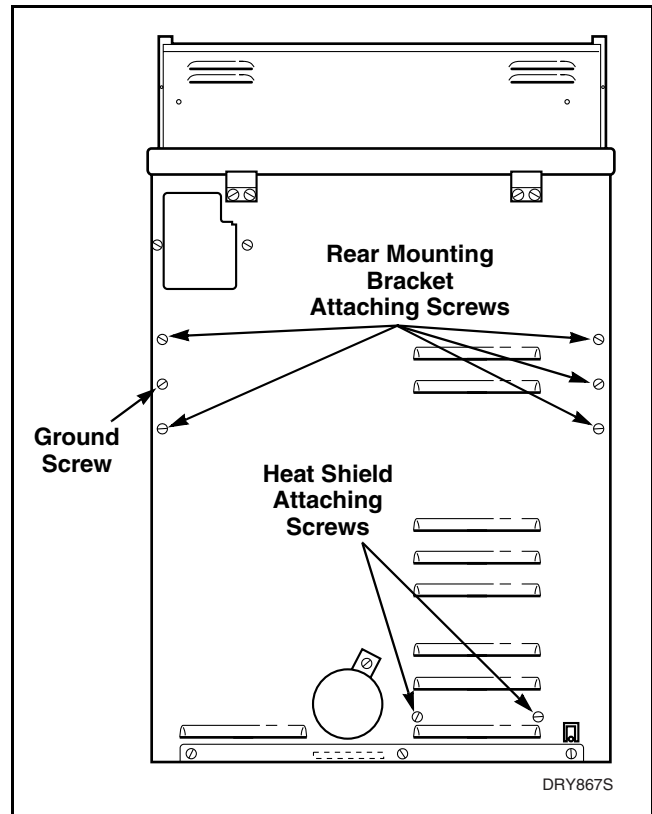


Figure 31

56. REAR MOUNTING BRACKETS

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove cylinder assembly, *Paragraph 51*, steps “b” through “f”.
- c. **Gas Models:**
 - (1) Remove burner housing, *Paragraph 23*, steps “b” through “j”.
 - (2) Remove four hex head screws holding heat shroud to heater box, then remove shroud out through front of dryer. Refer to *Figure 6*.
- d. **Electric Models:**
 - (1) Remove two hex head screws holding element and plate to heater box, then pull element down and away from heater box. Refer to *Figure 16*.

- (2) Disconnect wires from element terminals and from high limit thermostat.

NOTE: When reassembling, be sure all wire connections are tight on element terminals and to high limit thermostat.

- e. Remove two hex head screws holding heater box to heat shield. Refer to *Figure 29*.
- f. Remove one Phillips head screw holding rear bulkhead to terminal block bracket. While supporting bulkhead, remove the four Phillips head screws holding rear bulkhead to mounting brackets, then lift complete assembly out of dryer. Refer to *Figure 29*.
- g. Remove five screws holding rear mounting brackets to rear of dryer cabinet. Refer to *Figure 31*.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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57. CABINET AND BASE

- a. Remove front panel, *Paragraph 22*, steps “a” through “d”.
- b. Remove control panel screws and lift assembly off panel support.
- c. Disconnect wire harness from all components, and ground wire in control hood. Push harness through ole in cabinet top. Set control panel aside to prevent damage.
- d. Remove two cabinet top hold-down screws. Refer to *Figure 17*.
- e. Lift front of cabinet top and disengage from hinges on rear of cabinet. Refer to *Figure 18*. Set cabinet top aside to prevent damage.
- f. Remove cylinder assembly, *Paragraph 51*, steps “b” through “f”.
- g. Disconnect wires from thermostats located on exhaust fan cover.

NOTE: Refer to wiring diagram when rewiring thermostats.

- h. Remove two screws holding motor mounting bracket to dryer base. Refer to *Figure 20*. Then pull complete assembly out through front of dryer.
- i. Disconnect wires from motor switch.

NOTE: Refer to wiring diagram when rewiring motor switch.

j. Gas Models:

- (1) Remove burner housing, *Paragraph 23*, steps “b” through “j”.
- (2) Remove four hex head screws holding heat shroud to heater box, and remove shroud.

k. Electric Models:

- (1) Remove two hex head screws holding element and plate to heater box, then pull element down and away from heater box. Refer to *Figure 16*.
- (2) Disconnect wires from element terminals and from high limit thermostat.

NOTE: When reassembling, be sure all wire connections are tight on element terminals and to high limit thermostat.

- l. Remove two hex head screws holding heater box to heat shield. Refer to *Figure 29*.
- m. Remove one Phillips head screw holding rear bulkhead to terminal block bracket. While supporting bulkhead, remove the four Phillips head screws holding rear bulkhead to mounting brackets, then lift complete assembly out of dryer. Refer to *Figure 29*.
- n. Disconnect vent and move dryer to gain access to rear of dryer.
- o. Remove two hex head screws holding heat shield to rear of dryer cabinet. Refer to *Figure 31*.
- p. Remove two hex head screws from front edge at each side of cabinet. Refer to *Figure 24*. Then remove remaining screws from around bottom of cabinet and lift cabinet off base.

Section 5 Adjustments



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

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58. LEVELING LEGS

- Thread locknuts down to heads of leveling legs, then thread legs into dryer base until heads extend out of base approximately 3/4 inch (19.05 mm). Refer to *Figure 32*.
- Turn legs in or out of base as necessary to level dryer. All four legs must rest firmly on the floor.
- Tighten locknuts securely against dryer base and place rubber pads on each leg. Refer to *Figure 32*.

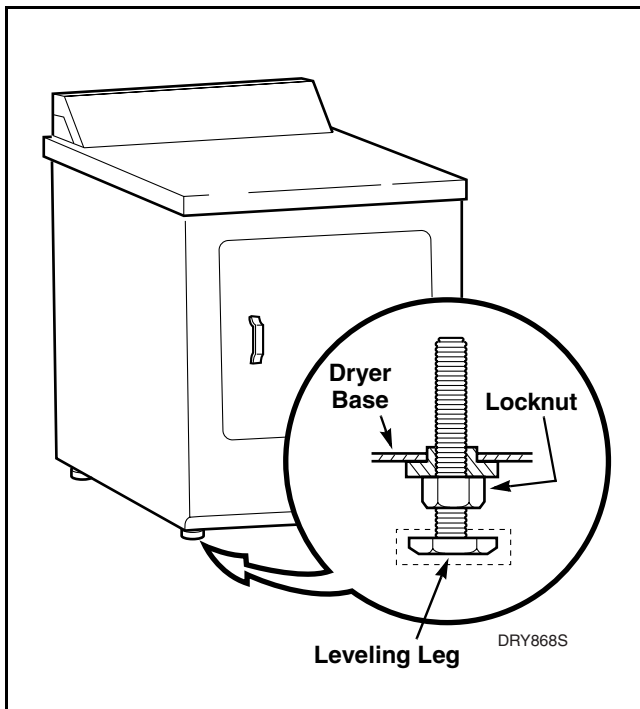


Figure 32

59. BURNER FLAME (GAS MODELS)

- Close loading door, set fabric selector switch at NORMAL, set timer at "65", and push start switch button to start dryer.
- Allow dryer to operate for approximately five minutes, then open access door and loosen air shutter lockscrew. Refer to *Figure 33*.
- Turn air shutter to the right or left to obtain a soft, uniform blue flame with orange tips. (A lazy, orange tipped flame indicates lack of air. A harsh, roaring, very blue flame indicates too much air.)
- After proper flame is obtained, tighten air shutter lockscrew securely. Refer to *Figure 33*.

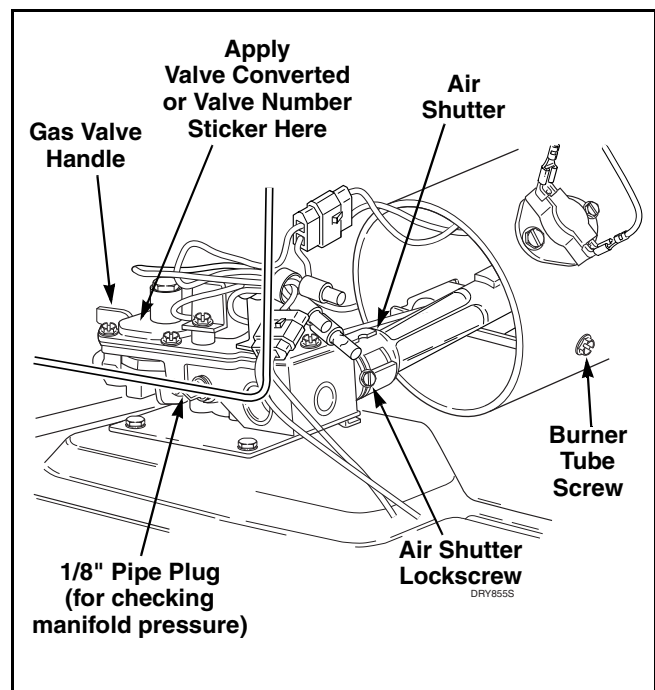




Figure 33

Section 6

Gas Burner Conversion Procedures

	WARNING
<p>To reduce the risk of electric shock, fire, explosion, serious injury or death:</p> <ul style="list-style-type: none"> • Disconnect electric power to the dryer(s) before servicing. • Close gas shut-off valve to gas dryer(s) before servicing. • Never start the dryer(s) with any guards/panels removed. • Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded. 	
<small>W001R1</small>	

	WARNING
<p>This conversion kit is to be installed by AUTHORIZED DEALERS or DISTRIBUTORS on their premises and in accordance with the manufacturer's instructions and all codes and requirements of the authority having jurisdiction. Failure to follow instructions could result in serious injury or property damage. The qualified agency performing this work assumes responsibility for this conversion.</p>	
<small>W312</small>	

60. CONVERSION KITS – Glow Bar Ignition System

All gas dryers manufactured with glow bar ignition are factory equipped for Natural/Mixed gas operation.

No. 56412 Natural/Mixed to L.P. Gas Kit is available from your parts supplier. This kit consists of:

- 1 - 51211 Burner Orifice Spud
- 1 - 53390 Block-Open Plug and Gasket
- 1 - 53408 Change-Over Sticker
- 1 - 55753 “Valve Converted” Sticker
- 1 - 56426 L.P. Gas Sticker

No. 56413 L.P. to Natural/Mixed Gas Kit is available for field conversion. This kit consists of:

- 1 - 50326 Burner Orifice Spud
- 1 - 53556 Change-Over Sticker
- 1 - 53952 Vent Screw
- 1 - 56414 Valve Number Sticker
- 1 - 56427 Natural Gas Sticker

61. ORIFICE INFORMATION

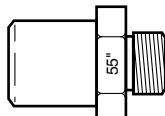
Burner Orifice		
 <p style="text-align: center; margin-top: 10px;">DRY962S</p>		
Kind of Gas	Part Number	Stamp Code
Natural/Mixed	50326	44
Liquefied Petroleum (L.P.)	51211	55

Figure 34

62. INSTALLATION INSTRUCTIONS FOR 56412 AND 56413 GAS KITS

Refer to *Figure 33*

- a. Apply thumb pressure to the right side of access door. When door opens, move door to the left to disengage from door supports. Refer to *Figure 5*.
- b. Disconnect igniter wires at quick disconnect block.
- c. Remove hex head screw (located on right side of burner housing) holding burner tube and igniter in place.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.**

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- d. Carefully move burner tube toward rear of dryer, far enough to permit removal of burner orifice spud from orifice adapter.

NOTE: Tab on burner tube may have to be removed from slot in burner housing to obtain enough clearance.

e. 56412 Gas Kit:

- (1) Turn burner orifice spud out of orifice adapter and install No. 51211 L.P. Burner Orifice (metal stamped No. 55).
- (2) Reinstall burner tube, hex head screw and reconnect igniter wires.
- (3) Remove vent screw and install No. 53390 Block-Open Plug.
- (4) Install No. 55753 “Valve Converted” Sticker to top side of gas valve so it covers the gas valve part number. Refer to *Figure 33*.
- (5) Install No. 56426 L.P. Gas Sticker over the old sticker on rear of cabinet, and apply No. 53408 Change-Over Sticker to the inside of the loading door opening above the serial plate.
- (6) Connect electrical service and open valve in gas supply line. Start dryer and observe burner flame. Adjust air shutter to obtain a soft, uniform flame. (A lazy, orange tipped flame indicates lack of air. A harsh, roaring, very blue flame indicates too much air.) Adjust air shutter to obtain a soft uniform blue flame as follows:
 - (a) Loosen air shutter lockscrew.
 - (b) Turn air shutter to the right or left as necessary to obtain proper flame intensity.
 - (c) After air shutter is adjusted for proper flame, tighten air shutter lockscrew securely.

f. 56413 Gas Kit:

- (1) Turn burner orifice spud out of orifice adapter and install No. 50326 Natural Gas Burner Orifice (metal stamped No. 44).

- (2) Reinstall burner tube, hex head screw and reconnect igniter wires.
- (3) Remove block-open plug and install No. 53952 Vent Screw.
- (4) Install No. 56414 Valve Number Sticker to top side of gas valve so it covers the gas valve converted sticker. Refer to *Figure 33*.
- (5) Install No. 56427 Natural/Mixed Gas Sticker over old sticker on rear of cabinet, and apply No. 53556 Change-Over Sticker to inside of loading door opening above the serial plate.
- (6) Connect electrical service and open valve in gas supply line. Start dryer and observe burner flame. Adjust air shutter to obtain a soft, uniform flame. (A lazy, orange tipped flame indicates lack of air. A harsh, roaring, very blue flame indicates too much air.) Adjust air shutter to obtain a soft uniform blue flame as follows:
 - (a) Loosen air shutter lockscrew.
 - (b) Turn air shutter to the right or left as necessary to obtain proper flame intensity.
 - (c) After air shutter is adjusted for proper flame, tighten air shutter lockscrew securely.

Section 7

Internal Wiring of Dryer Motor Switch

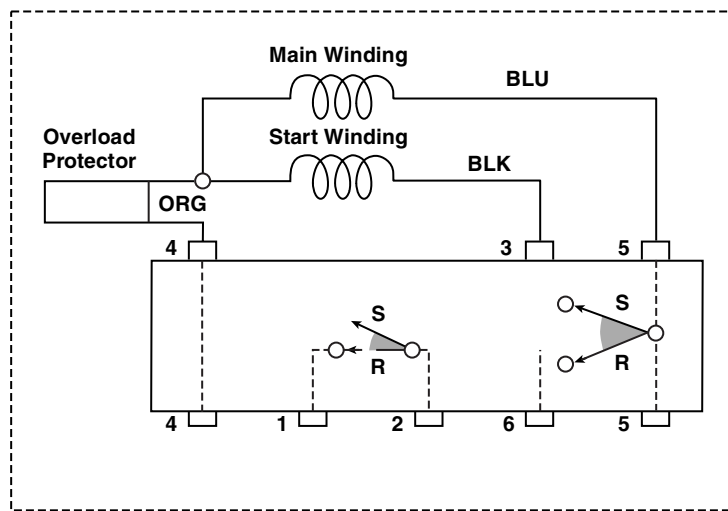


WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

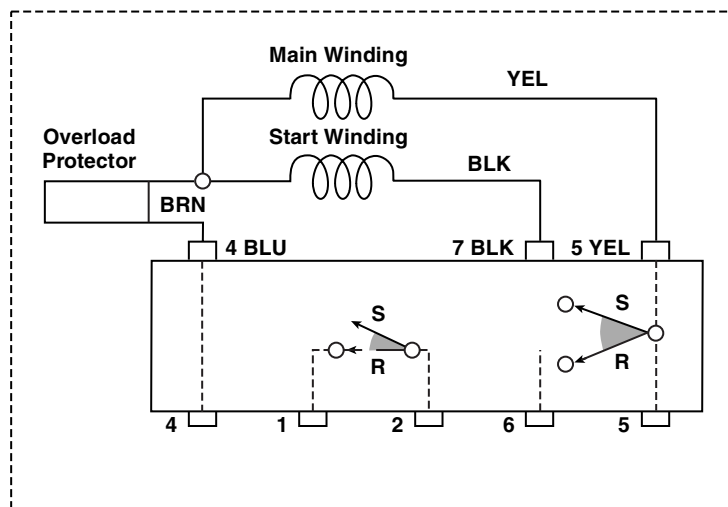
- Disconnect electric power to the dryer(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1



DRY869S

GENERAL ELECTRIC



DRY869S

EMERSON

Figure 35