Commercial Dryers

Metered and Nonmetered ZE and ZG Series

Refer to Page 6 for Model Numbers

Service

Alliance Laundry Systems

www.comlaundry.com

Part No. 62631R1
August 2002

Table of Contents

(continued)

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.**

W006R1

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

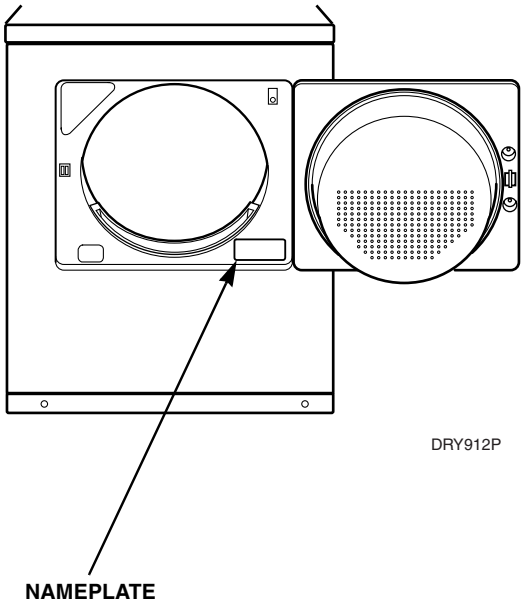
Customer Service

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.

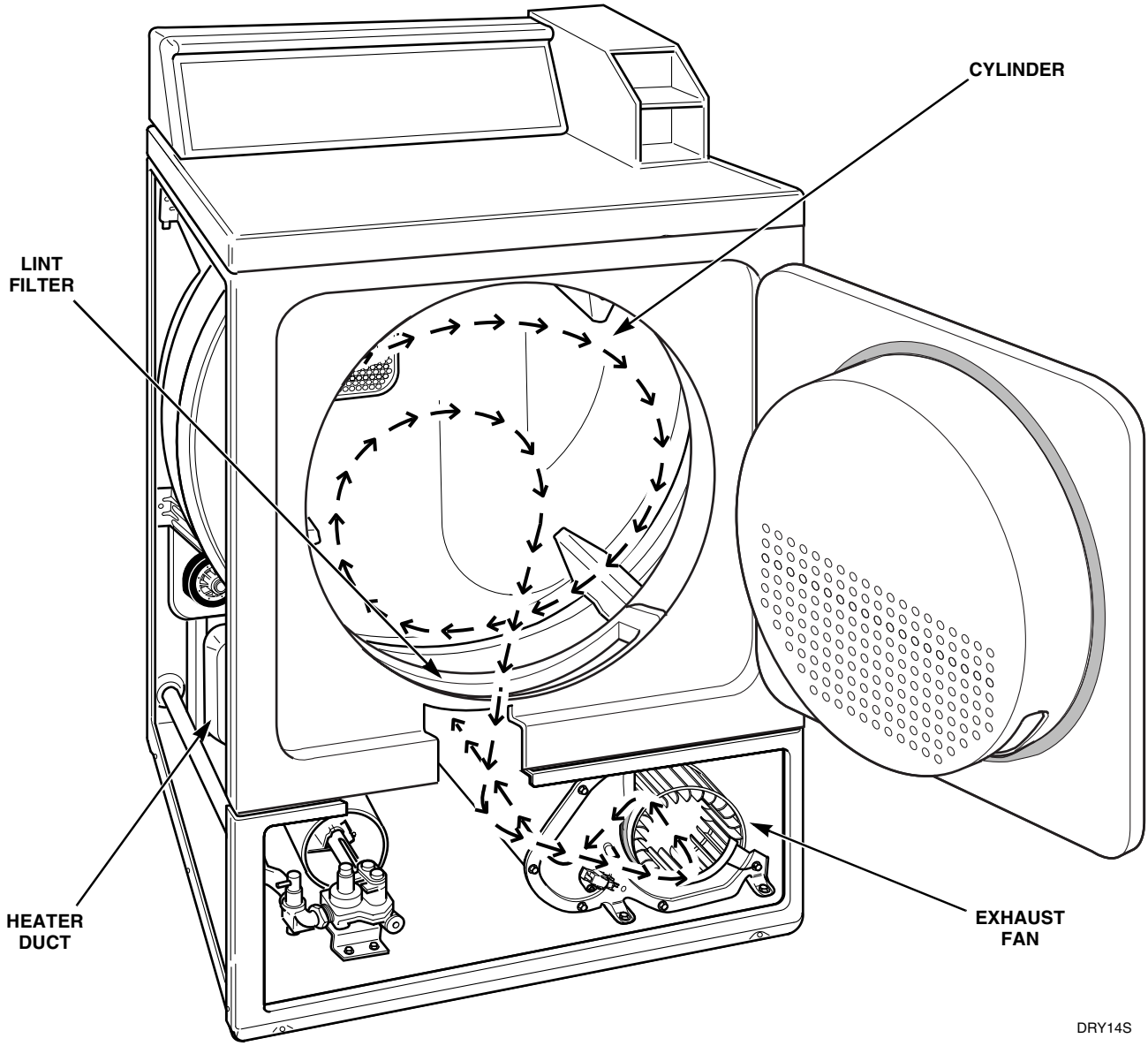


Model Identification

Information in this manual is applicable to these dryers.

ZE1010-1502
ZE1010-1702
ZE1010-3003
ZE1010-3004
ZE1010-3005
ZE1010-3007
ZE1010-3008
ZE1110-1502
ZE1110-1702
ZE1110-3000
ZE1110-3004
ZE1110-3005
ZG1020-3004
ZG1020-3005
ZG1020-3008
ZG1120-1102
ZG1120-3000
ZG1120-3002
ZG1120-3004
ZG1120-3005

How Your Dryer Works



The dryer uses heated air to dry loads of laundry. When the motor is started, the exhaust fan pulls 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.	• Be sure to check both fuses on electric models.
Loading door not closed or inoperative door switch.	• Close door or test switch and replace if inoperative.
Motor overload protector has cycled.	• Wait two or three minutes for overload protector to reset. If protector cycles repeatedly, refer to *Paragraph 2*.
Timer improperly set.	• Reset timer.
Inoperative motor switch.	• Test switch and replace if inoperative.
Start circuit not completed.	• Press start switch button, or test switch and replace if inoperative.
Inoperative motor.	• Test motor and replace if inoperative.
Inoperative timer – nonmetered models.	• Test timer and replace if inoperative.
Inoperative accumulator – metered models.	• Test accumulator and replace if inoperative.
Accumulator not being activated.	• Install slide extension.
Broken, loose, or incorrect wiring.	• Refer to appropriate wiring diagram.
Motor centrifugal switch sticky or plugged with lint.	• Remove dust or lint and spray with “Slyde”, No. 131P4, to clean and lubricate.

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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2. MOTOR OVERLOAD PROTECTOR CYCLES REPEATEDLY

POSSIBLE CAUSE	TO CORRECT
Low voltage or high voltage.	• Refer to ***Installation Instructions*** (supplied with dryer) for electrical requirements.
Clothes load too large	• Remove part of load. A normal washer load is a normal dryer load.
Clothes cylinder is binding	• 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.	• Replace drive motor.

3. MOTOR RUNS BUT CYLINDER DOES NOT TURN

POSSIBLE CAUSE	TO CORRECT
Motor drive pulley loose.	• Tighten setscrew. Refer to *Figure 30*.
Broken cylinder belt.	• Replace belt.
Cylinder belt is upside down or twisted.	• Install properly.
Clothes cylinder is binding.	• 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.	• Replace or reconnect spring. Refer to *Figure 30*.

4. MOTOR DOES NOT STOP

POSSIBLE CAUSE	TO CORRECT
Inoperative door switch.	• Test switch and replace if inoperative.
Inoperative timer – nonmetered models.	• Test timer and replace if inoperative.
Inoperative accumulator – metered models.	• Test accumulator and replace if inoperative.
Incorrect wiring.	• Refer to appropriate wiring diagram.

5. MOTOR STARTS WHEN DOOR IS CLOSED

POSSIBLE CAUSE	TO CORRECT
Inoperative start switch	• Test switch and replace if inoperative.

WARNING

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

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Blown fuse or tripped circuit breaker.	• Check fuses or circuit breakers. (Electric models have two.)
FABRIC switch set at FLUFF, or inoperative.	• Reset switch, or test switch and replace if inoperative.
Timer improperly set (nonmetered models).	• Reset timer.
Inoperative limit thermostat.	• Test thermostat and replace if inoperative.
Electric Models: Inoperative heating element.	• Replace element.
Gas Models: Insufficient gas supply.	• Open partially closed gas shut-off valve, or correct low gas pressure.
Inoperative drive motor switch.	• Test switch and replace if inoperative.
Gas Models: Inoperative gas valve coils.	• Test coils and replace if inoperative.
Gas Models: Inoperative igniter.	• Test igniter and replace if inoperative.
Gas Models: Inoperative sensor.	• Test sensor and replace if inoperative.
Electric Models: Inoperative thermal fuse.	• Test thermal fuse and replace if inoperative.
Inoperative cycling thermostat.	• Test thermostat and replace if inoperative.
Inoperative timer.	• Test timer and replace if inoperative.
Inoperative accumulator	• Test accumulator and replace if inoperative.
Broken, loose, or incorrect wiring.	• Refer to appropriate wiring diagram.

7. IGNITER DOES NOT GLOW (Gas Supply Sufficient) – GAS MODELS

POSSIBLE CAUSE	TO CORRECT
No power to power leads on valve.	• Check electrical circuit. Refer to *"To Test Electrical Circuit To Ignition System (Gas Models)"* on Page 40.
Sensor failed with contacts open.	• Replace sensor.
Igniter broken or open.	• Replace igniter.

8. BURNER IGNITES AND GOES OUT REPEATEDLY – GAS MODELS

POSSIBLE CAUSE	TO CORRECT
Burner heat not holding sensor contacts open.	• Replace sensor.
Insufficient gas supply.	• Check gas supply and pressure. Is gas shut-off valve turned on?

WARNING

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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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9. IGNITER GLOWS BUT BURNER DOES NOT IGNITE – GAS MODELS

POSSIBLE CAUSE	TO CORRECT
Sensor failed in closed position.	• Replace sensor.
Open secondary coil or holding coil.	• Replace gas valve (in-warranty), or replace coils (out-of-warranty). Refer to parts manual for part numbers of coils.
Insufficient gas supply.	• Check gas supply and pressure. Is gas shut-off valve turned on?

10. HEATING ELEMENT OR BURNER SHUTS OFF PREMATURELY

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Gas Models: Insufficient gas supply.	• Open partially closed gas shut-off valve, or correct low pressure.
Gas Models: Dryer not properly equipped for type of gas used.	• Refer to “Gas Burner Conversion Procedures” in this manual to convert burner.
Gas Models: Improperly adjusted burner flame.	• Adjust flame.
Cycling off on limit thermostat.	• Momentarily connect a jumper wire across thermostat terminals. If heating element heats or burner ignites when jumper wire is connected, refer to *Paragraph 11*.
Gas models: Sensor contact closing prematurely. Burner flame improperly adjusted.	• Replace sensor or adjust burner flame.
Inoperative cycling thermostat.	• Test thermostat and replace if inoperative.
Inoperative timer.	• Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	• 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.**
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11. HEATING ELEMENT OR BURNER REPEATEDLY CYCLES OFF ON LIMIT THERMOSTAT

POSSIBLE CAUSE	TO CORRECT
External exhaust system longer or providing greater restriction than recommended.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust system requirements.
Clogged lint filter.	• Clean lint filter.
Lint in internal dryer ductwork.	• Disassemble dryer and clean ductwork.
Lint in external exhaust system.	• Disassemble and clean exhaust system.
Hinged damper on exhaust system weather hood not free to open.	• Free hinged damper or replace weather hood
Limit thermostat cycling at too low a temperature.	• Replace thermostat.
Air leak around loading door. (Door not sealing properly against outer door seal due to damaged seal or inoperative catch.)	• Replace seal or catch.
Air leak at front or rear cylinder seal.	• Check and replace seal if necessary.

12. HEATING ELEMENT OR BURNER DOES NOT SHUT OFF

POSSIBLE CAUSE	TO CORRECT
Improper motor switch.	• Test switch and replace if inoperative.
Motor does not stop.	• Refer to *Paragraph 4*.
Incorrect wiring.	• Refer to appropriate wiring diagram.
Heating element shorted.	• Remove heating element and check for short.

13. CLOTHES DO NOT DRY

POSSIBLE CAUSE	TO CORRECT
Heating element does not heat or burner does not ignite.	• Refer to *Paragraph 6*.
Too much water in articles being dried.	• Remove excess water.
Clothes load too large.	• Remove part of load. A normal washer load is a normal dryer load.
Improper or inadequate exhaust system.	• Refer to ***Installation Instructions*** (supplied with dryer) for exhaust requirements.
Heating element or burner shuts off prematurely.	• Refer to *Paragraph 10*.

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. CLOTHES ARE TOO HOT WHEN REMOVED FROM DRYER

POSSIBLE CAUSE	TO CORRECT
Clothes are removed from dryer before cycle has completed.	• Allow the dryer to complete the cycle, through the cool-down to the OFF position.
Inoperative cycling thermostat. Inoperative thermostat heater on the DELICATE setting.	• Test cycling thermostat or thermostat heater and replace if inoperative.
Inoperative accumulator or timer (not allowing cool-down).	• Test accumulator or timer and replace if inoperative.

Section 4
Grounding

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

15. MOTOR MOUNTING BRACKET TO MOTOR (Gas and Electric Models)
Refer to *Figure 1*

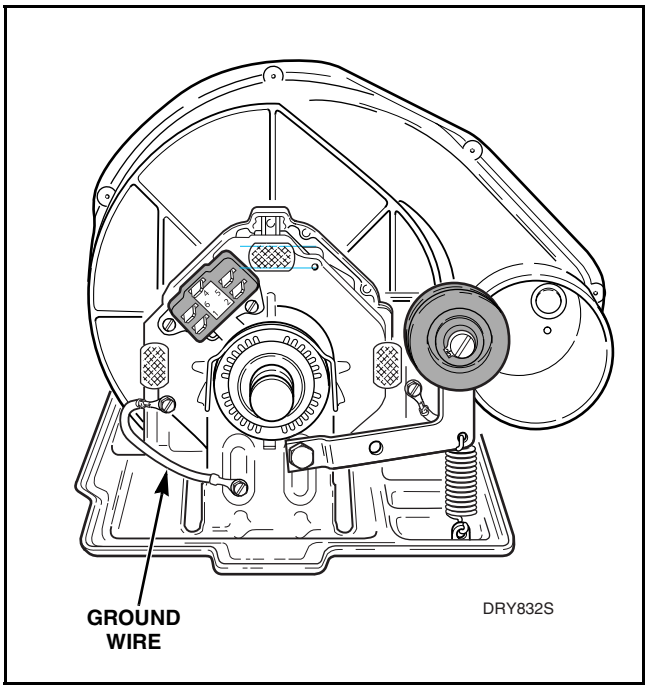


Figure 1

16. MOTOR MOUNTING BRACKET TO EXHAUST FAN COVER (Gas and Electric Models with painted exhaust fan cover – ground wire not used on unpainted covers)
Refer to *Figure 2*

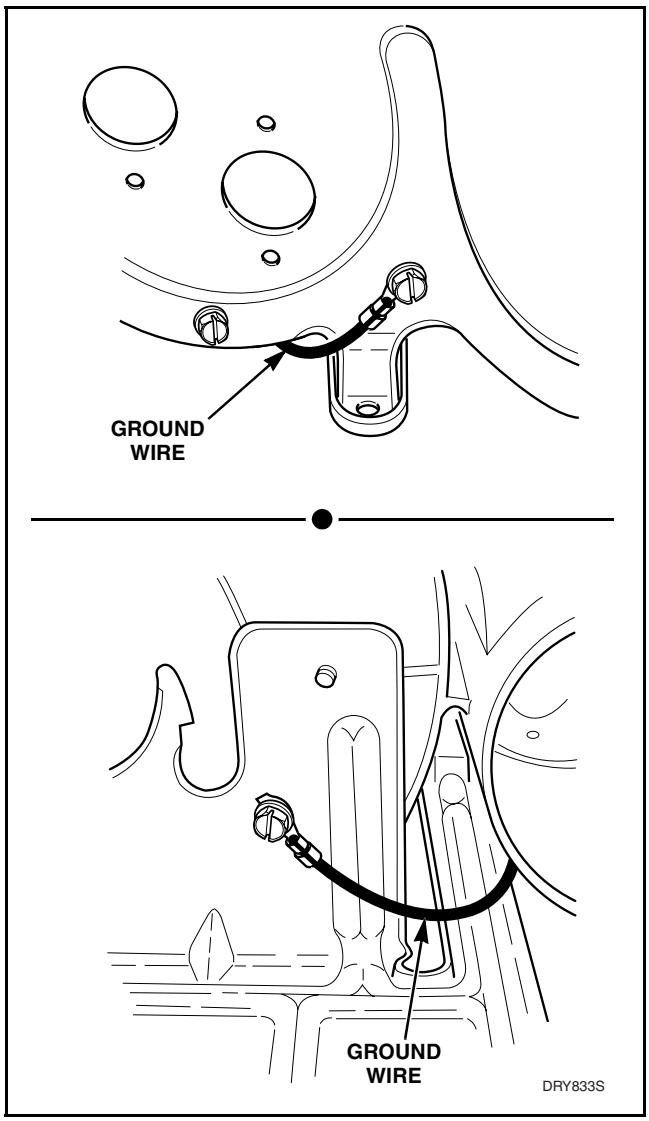


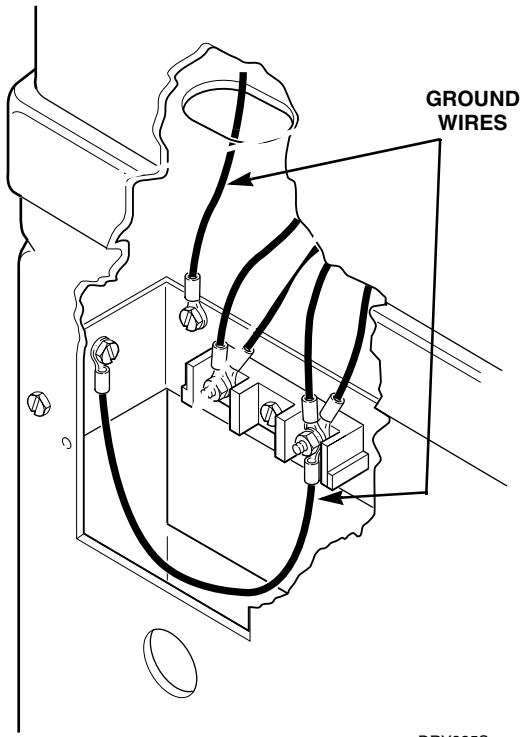
Figure 2

WARNING

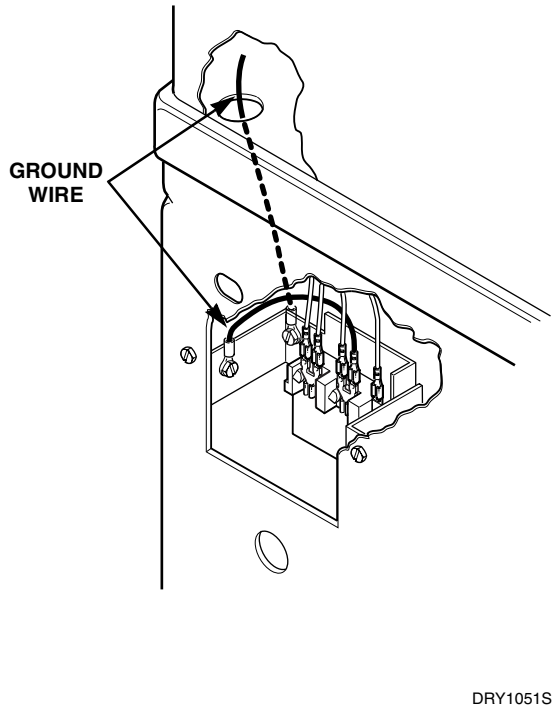
To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
- **Never start the dryer(s) with any guards/panels removed.**
- **Whenever ground wires are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

W001R1

17. NEUTRAL AT TERMINAL BLOCK TO TERMINAL BLOCK BRACKET AND FROM TERMINAL BLOCK BRACKET TO CONTROL HOUSING (Electric Models Only)
Refer to *Figure 3*



THROUGH SERIAL NO. S6270865XG



STARTING SERIAL NO. S6270866XG

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. POWER CORD TO TERMINAL BLOCK BRACKET AND FROM TERMINAL BLOCK BRACKET TO CONTROL HOUSING. WALL RECEPTACLE POLARITY CHECK (Gas Models Only)
Refer to *Figure 4*

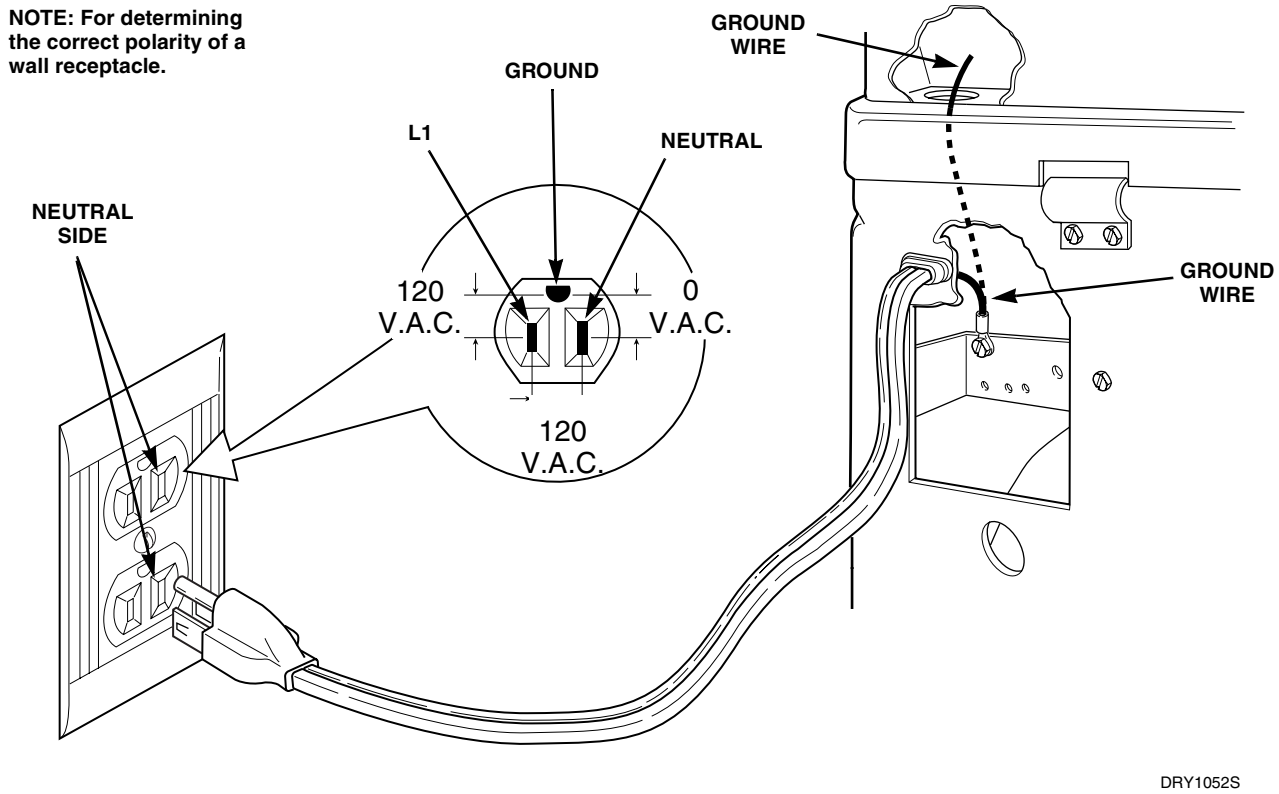

Figure 4

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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19. METERED AND NONMETERED MODELS – FROM TERMINAL BLOCK BRACKET TO ACCUMULATOR BRACKET OR TIMER (DEPENDING ON MODEL) AND FROM CABINET TOP TO CONTROL PANEL
Refer to *Figure 5*

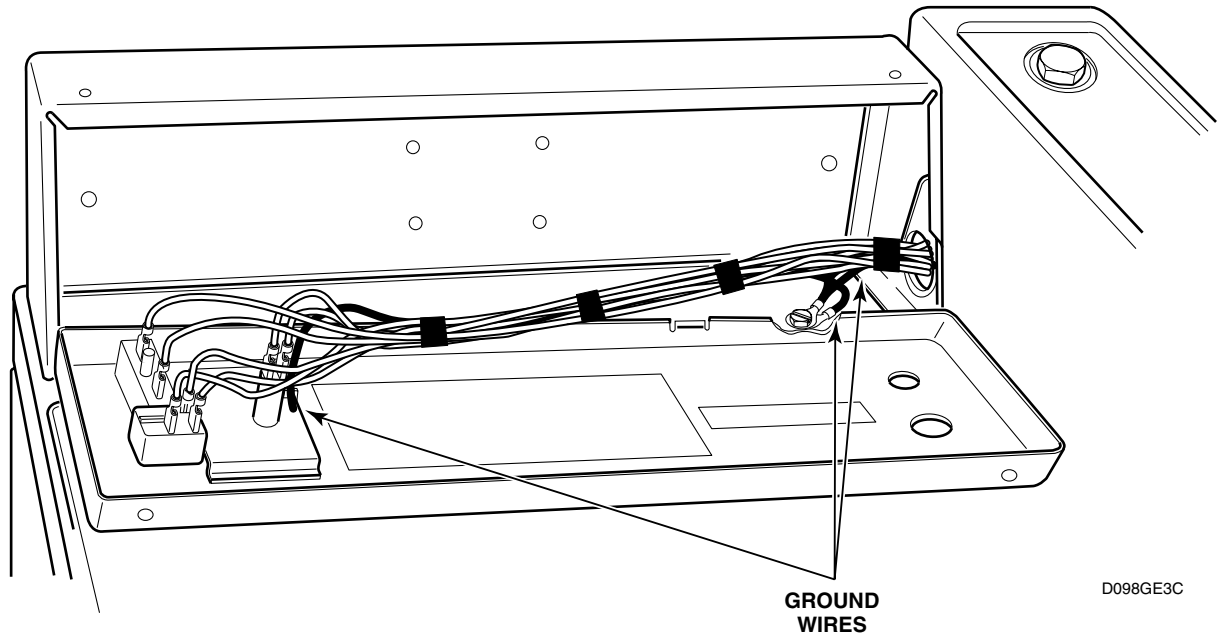


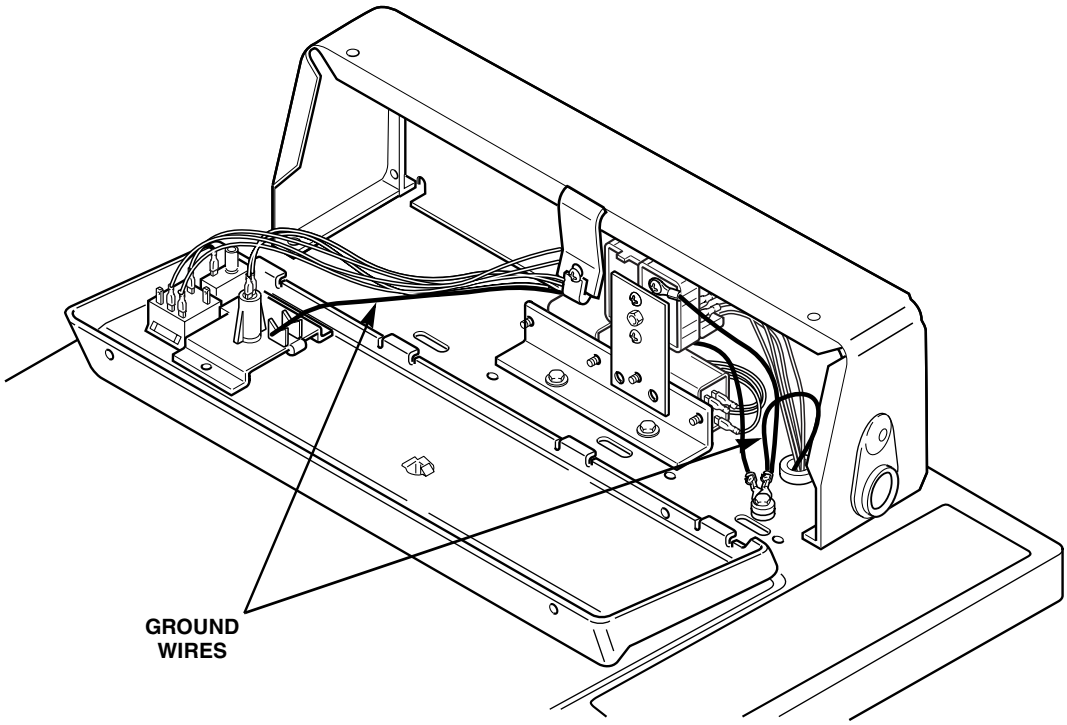
Figure 5

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

20. CARD READER MODELS – FROM TERMINAL BLOCK BRACKET TO CABINET TOP, FROM CABINET TOP TO TIMER AND CABINET TOP TO CONTROL PANEL
Refer to *Figure 6*



DRY1812S

Figure 6

Section 5
Service Procedures

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

IMPORTANT: When reference to direction (right or left) is made in this manual, it is from the operator's position facing the front of the dryer.

IMPORTANT: Electrical test procedures in this manual are performed by using a Volt-Ohm meter. Tests can also be performed using a multi-meter or any other electrical testing equipment with which the service person is familiar.

21. CONTROL PANEL, TEMPERATURE SWITCH, PUSH-TO-START SWITCH AND INDICATOR LIGHT

Refer to *Figure 7*.

a. On Card Reader Models, remove panel lock (if present).

NOTE: Several turns of the key may be required to remove panel lock.

b. Remove two control panel attaching screws and lift assembly off cabinet top.
c. Disconnect all wires to temperature switch, PUSH-TO-START switch and INDICATOR LIGHT and remove ground clip and screw holding ground wire to cabinet top and control panel.

NOTE: Refer to the appropriate wiring diagram when reconnecting wires.

d. Loosen setscrew holding temperature switch knob to shaft and pull knob off shaft.
e. Remove knurled nut holding temperature switch to panel and remove switch.
f. Remove hex nut from PUSH-TO-START switch and remove switch.
g. Squeeze locking tabs on INDICATOR LIGHT and pull light out from back of panel.
h. On Card Reader Models without panel lock, remove Plug Button Lock.

22. GRAPHICS PANEL

Refer to *Figure 7*.

a. Card Reader Models – Remove panel lock (if present).

NOTE: Several turns of the key may be required to remove panel lock.

b. Remove two control panel attaching screws and lift assembly off cabinet top.
c. Remove knurled nut holding temperature switch to panel.
d. Remove hex nut from PUSH-TO-START switch
e. Card Reader Models without panel lock – Remove lock plug.
f. Remove graphics panel.

23. RELAYS (CARD READER MODELS)

Refer to *Figure 7*.

a. Remove panel lock (if present).

NOTE: Several turns of the key may be required to remove panel lock.

b. Remove two control panel attaching screws and lift assembly off cabinet top.
c. Disconnect wires from relay.

NOTE: Refer to the appropriate wiring diagram when rewiring relays.

d. Remove two screws holding timer mounting bracket assembly to cabinet top.
e. Remove two screws holding relay to mounting bracket assembly.

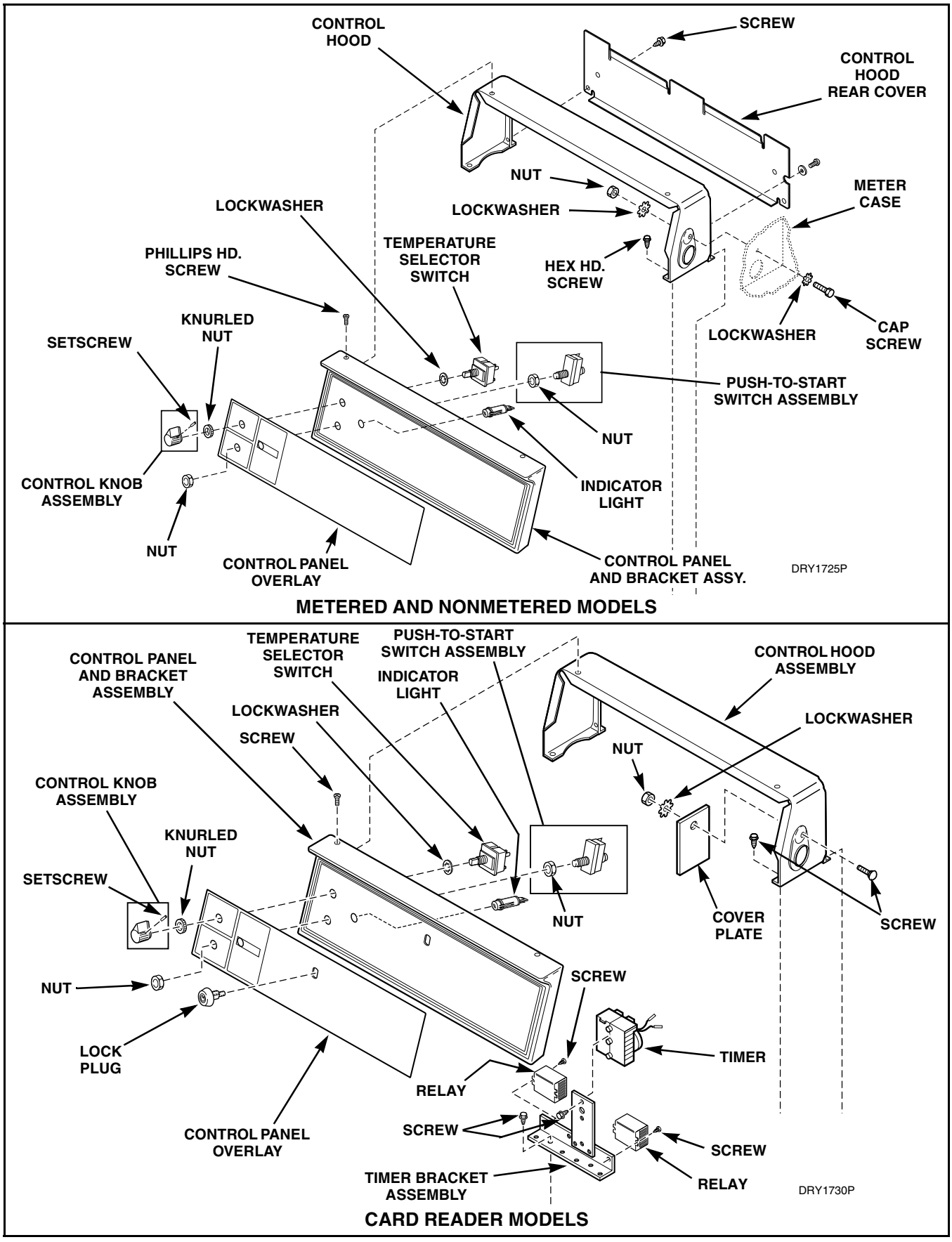


Figure 7

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.**
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W001R1

24. TIMER

a. **Card Reader Models with timer mounted behind control panel:**

(1) Refer to *Figure 7* for timer removal.

(2) Remove panel lock (if present).

NOTE: Several turns of the key may be required to remove panel lock.

(3) Remove two control panel attaching screws and lift assembly off cabinet top.

(4) Remove two screws holding timer to timer bracket.

(5) Remove ground screw holding ground wire to timer.

(6) Disconnect wires from timer.

NOTE: Refer to the appropriate wiring diagram when rewiring timer.

b. **Nonmetered models:**

(1) Refer to *Figure 8* for timer removal.

(2) Loosen setscrew holding timer knob to timer shaft and remove knob.

(3) Remove four screws and lockwasher holding timer and plate to timer case.

NOTE: When reinstalling timer plate, lockwasher must be between head of screw and plate.

(4) Pull timer and plate out of timer case as far as wires will permit.

(5) Remove screw, lockwasher and locknut holding ground wires to timer.

(6) Disconnect wires from timer.

NOTE: Refer to the appropriate wiring diagram when rewiring the timer.

(7) Remove three screws and lockwasher holding timer to plate.

NOTE: When reinstalling timer to plate, lockwasher must be between head of screw and timer plate.

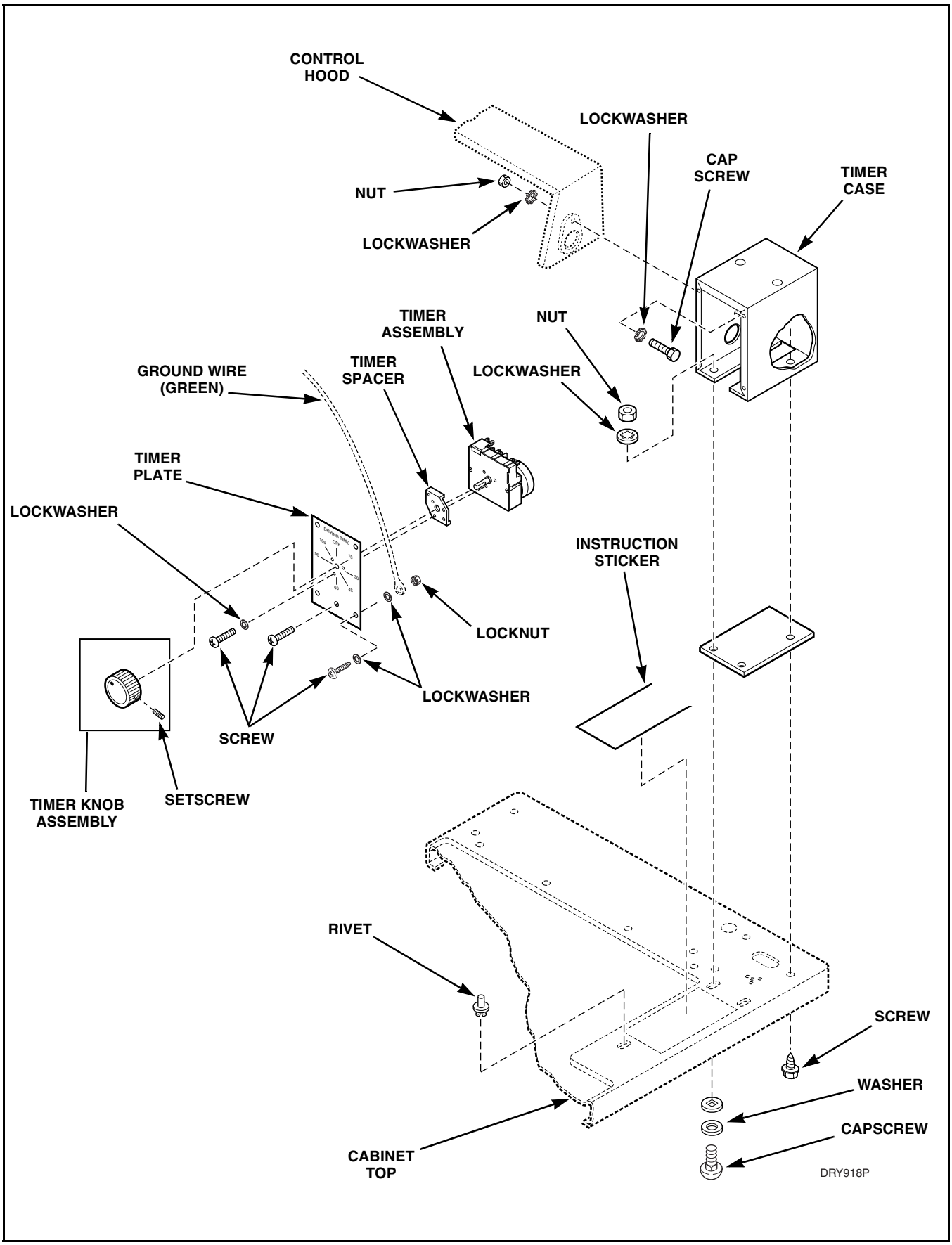

Figure 8

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.**
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To Test Timer Contacts – Nonmetered Models
Refer to *Figure 9*

1. Remove four screws and lockwashers holding timer and plate to timer case. Refer to *Figure 8*.

NOTE: When installing timer plate, lockwashers must be between head of screw and plate.

2. Pull timer plate out of timer case as far as wires will permit. Refer to *Figure 8*.
3. Remove screw, lockwasher and locknut holding ground wires from timer. Refer to *Figure 8*.
4. Disconnect wires from timer, except timer motor. Refer to *Figure 8*.

NOTE: Refer to appropriate wiring diagram when rewiring timer.

5. Manually rotate timer out of "OFF" position and into cycle.
6. Set test meter to read OHMS. The following readings should be found:
   a. Motor circuit test – L1 and M = "zero" Ohms (closed).
   b. Heat circuit test – L1 and H = "zero" Ohms (closed).
   c. Timer motor test – L1 and N = approximately 1100 Ohms or apply live power to timer motor terminals and motor should run.
7. Rotate timer to "cooldown" (5 minutes before "OFF"). "Infinite" (open) reading should be found between L1 and H.
8. Rotate timer to "OFF" position. "Infinite" (open) reading should be found between L1 and M and between L1 and H.

NOTE: Timer motor power is supplied through M terminal.

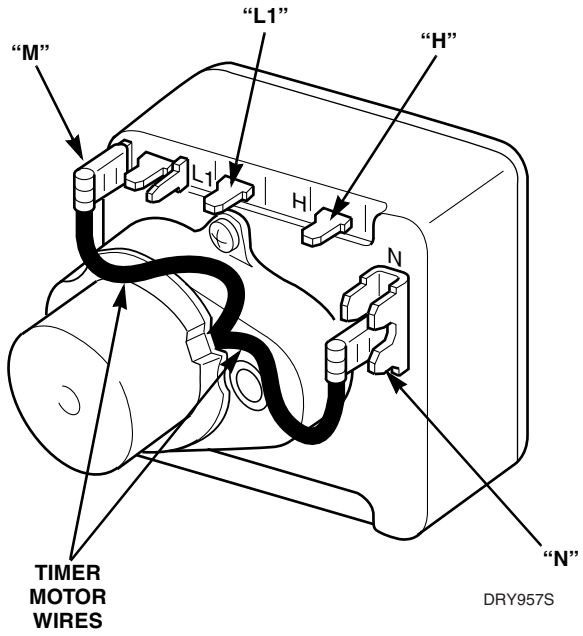


Figure 9

To Test Push-to-Start Switch

1. Remove two control panel attaching screws and lift assembly off cabinet top.
2. Disconnect all wires from switch.
3. Set Volt-Ohm meter to Ohms scale and calibrate at appropriate scale.
4. Unplug dryer from electrical supply and disconnect wires from switch terminals.
5. Place meter probes on switch terminals. You should see an "infinite" reading on the meter.
6. With probes attached to switch, press the start switch button. You should read "0" zero Ohms.

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 Fabric Temperature Switch

1. Remove two control panel attaching screws and lift assembly off cabinet top.
2. Disconnect all wires from switch.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

3. **Models equipped with No. 56576 Temperature Switch** – Set test meter to read OHMS and apply meter leads to the switch terminals:

L1 and C L1 and 2 l2 and 2 2 and C	**"Zero" reading in NORMAL**
L2 and C 2 and C	**"Zero" reading in PERMANENT PRESS**
L1 and 2 2 and 1	**"Zero" reading in DELICATE**

4. **Models equipped with No. 61512 Temperature Switch** – Set test meter to read OHMS and apply meter leads to the switch terminals:

L1 and 2	**"Zero" reading in NORMAL**
L1 and 2	**"Zero" reading in PERMANENT PRESS**
L1 and 1 L1 and 2	**"Zero" reading in DELICATE**

Meter should give "no reading" from L1 to 1 and from L1 to 2 in FLUFF.

25. CONTROL HOOD – METERED AND NON-METERED MODELS

a. Remove two control panel attaching screws and lift assembly off cabinet top. Refer to *Figure 7*.

b. Disconnect all wires to temperature switch, PUSH-TO-START switch and INDICATOR LIGHT and remove ground clip and screw holding ground wire to cabinet top and control panel. Refer to *Figure 5*.

NOTE: Refer to the appropriate wiring diagram when reconnecting wires.

c. **Metered Models**. Refer to *Figure 10*.
   (1) Insert key in service door lock on top of meter case and unlock door.
   (2) Lift rear end of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case.

NOTE: When reinstalling service door and accumulator, front end of door must be inserted at about a 45° angle in order to engage notched tabs with internal rib at top of meter case.

d. **Non-metered Models**. Refer to *Figure 8*.
   (1) Remove four screws and lockwasher holding timer and plate to timer case.

NOTE: When reinstalling timer plate, lockwasher must be between head of screw and plate.

   (2) Pull timer and plate out of timer case as far as wires will permit.

e. Remove cap screw holding control hood to meter case. Refer to *Figure 7*.

f. Remove two screws holding control hood to cabinet top and lift hood off rear tabs. Refer to *Figure 7*.

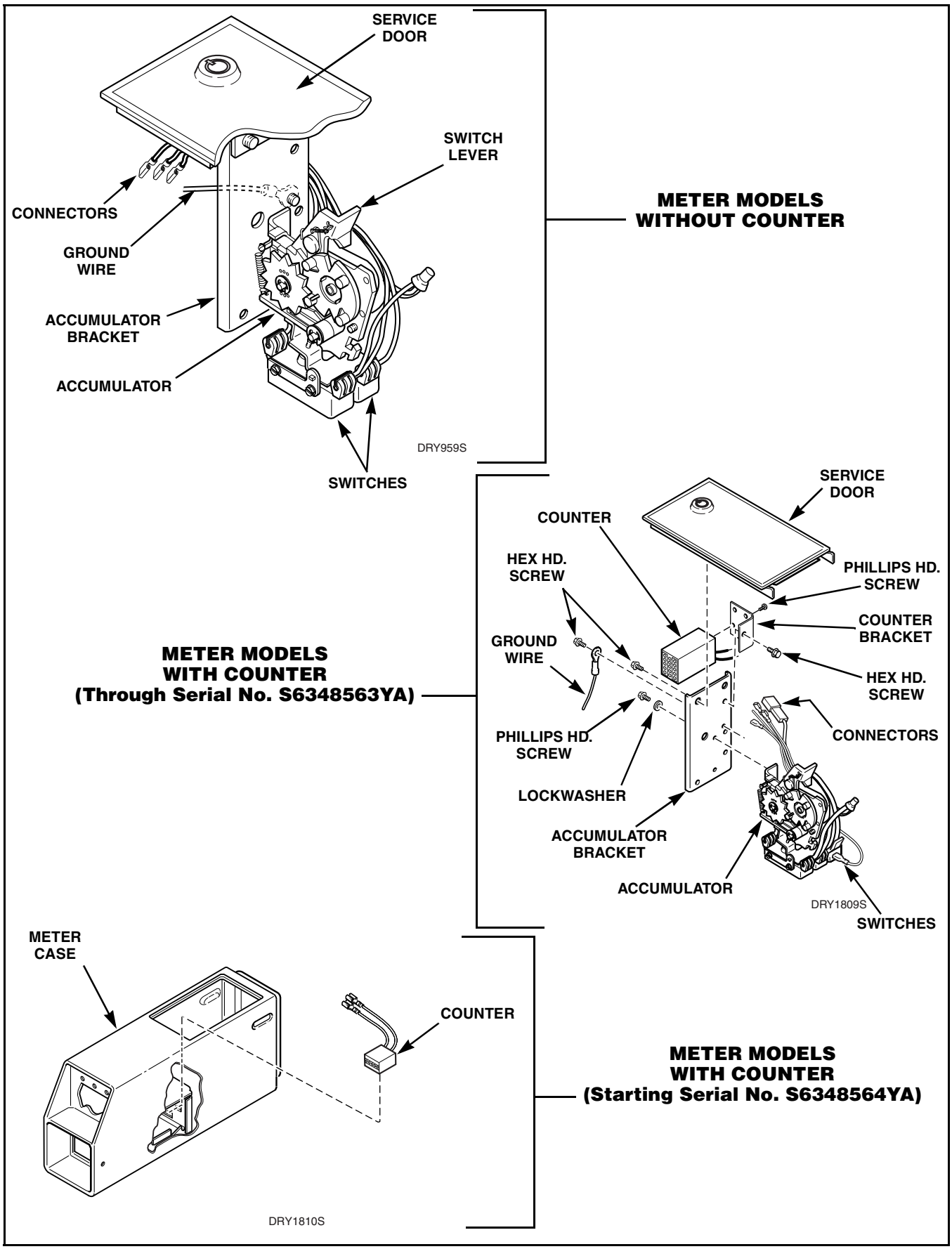


Figure 10

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

26. CONTROL HOOD – CARD READER MODELS

Refer to *Figure 7*.

a. Remove panel lock (if present).

NOTE: Several turns of the key may be required to remove panel lock.

b. Remove two control panel attaching screws and lift assembly off cabinet top.

c. Cut wires from card reader control at the butt splice connector, remove strain relief and pull wires through rear of hood.

NOTE: The butt splice connector will need to be replaced during reinstallation.

d. Remove two screws holding control hood to cabinet top and lift hood off rear tabs.

27. CONTROL HOOD REAR COVER

a. Refer to *Figure 7* for removal.

NOTE: The control hood rear cover is welded to the control hood on card reader models and is not removable.

28. SERVICE DOOR, ACCUMULATOR AND COUNTER – METERED MODELS

Refer to *Figure 10*.

a. Insert key in service door lock on top of meter case and unlock door.

b. Lift rear end of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case.

NOTE: When reinstalling service door and accumulator, front end of door must be inserted at about a 45° angle in order to engage notched tabs with internal rib at top of meter case.

c. Disconnect accumulator wires at connectors.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

d. Remove hex head ground screws holding green ground wire to accumulator mounting bracket.

e. Remove two Phillips head screws and lockwashers holding accumulator to mounting bracket.

f. Counter (if present):

(1) Disconnect wire from terminal on accumulator switch “C”.

(2) Cut other wire at butt splice connector.

NOTE: The butt splice connector will need to be replaced during reinstallation.

(3) Cut harness strap holding wires to bracket.

NOTE: Harness strap must be replaced during reinstallation.

(4) **Through Serial No. S6348564YA** – Remove two screws holding counter to counter bracket.
Starting Serial No. S6348564YA – The counter is mounted inside the meter case with two-sided tape.

NOTE: When installing a new counter, remove the protective backing from the tape located on underside of new counter. Press the new counter firmly in place. Tape on counter will reach full adhesion after 24 hours.

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.**

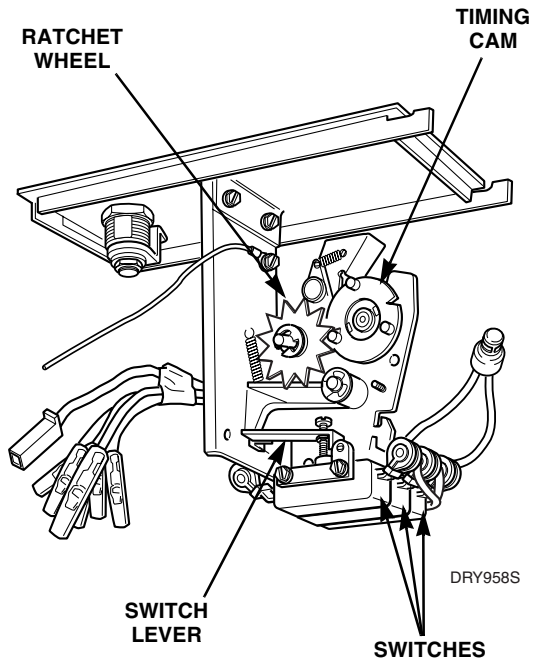
W001R1

To Test Accumulator and Timing Motor – Metered Models
Refer to *Figure 11*

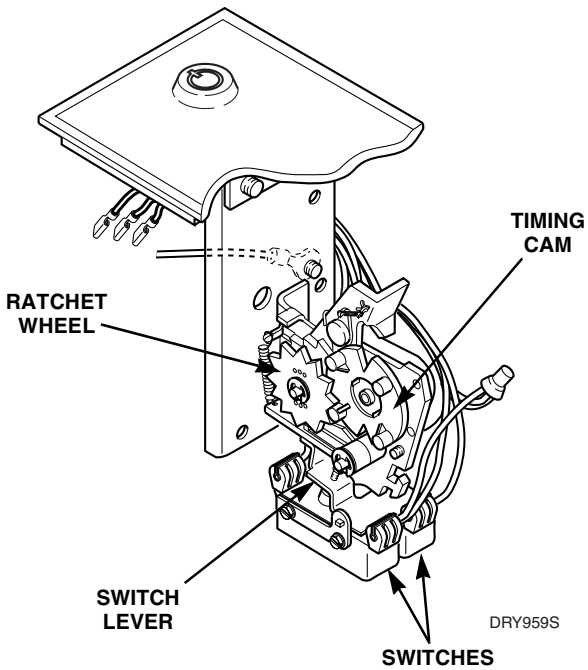
1. Remove wires from one side of each switch.

NOTE: Refer to appropriate wiring diagram when rewiring switches.

2. Manually advance timing cam to disengage it from ratchet wheel.
3. Set meter or read Ohms and apply leads on terminals of each switch in turn. You should get the following:
   Switch A – "zero" Ohms (closed)
   Switch B –"zero" Ohms (closed)
   Switch C (if present) – "infinite" open
4. Manually advance timing cam until it engages with ratchet wheel and the first "click" is heard. Switch B should not read "infinite" (open).
5. Continue to rotate timing cam until second "click" is heard. Switch B should remain open. Switch A should read "infinite" (open) and Switch C (if present) should read "zero" Ohms (closed).
6. **Timing Motor**
   a. Apply live power to timing motor leads. Timing motor should advance timing cam.



THREE SWITCH ACCUMULATOR



TWO SWITCH ACCUMULATOR

Figure 11

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

29. METER CASE

a. Remove two control panel attaching screws and lift assembly off cabinet top. Refer to *Figure 7*.

b. Disconnect all wires to temperature switch, PUSH-TO-START switch and INDICATOR LIGHT and remove ground clip and screw holding ground wire to cabinet top and control panel. Refer to *Figure 5*.

NOTE: Refer to the appropriate wiring diagram when reconnecting wires.

c. Insert key in service door lock on top of meter case and unlock door. Refer to *Figure 10*.

d. Lift rear end of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case.

NOTE: When reinstalling service door and accumulator, front end of door must be inserted at about a 45° angle in order to engage notched tabs with internal rib at top of meter case.

e. Disconnect accumulator wires at connectors. Refer to *Figure 10*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. Remove hex head ground screws holding green ground wire to accumulator mounting bracket. Refer to *Figure 10*.

g. Remove one hex head cap screw (right rear corner) holding meter case to cabinet top. Refer to *Figure 12*.

h. Remove nut, lockwasher and screw holding meter case to right end of control hood. Refer to *Figure 12*.

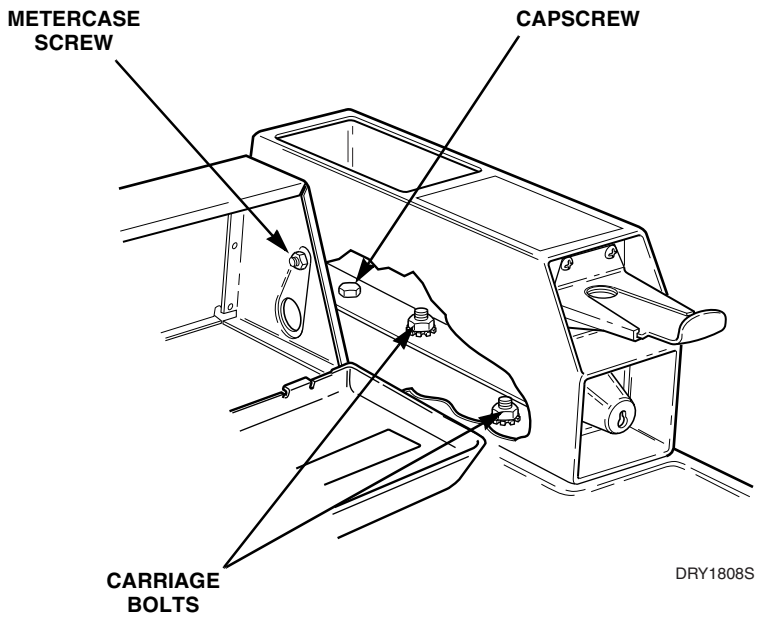


Figure 12

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.**

W001R1

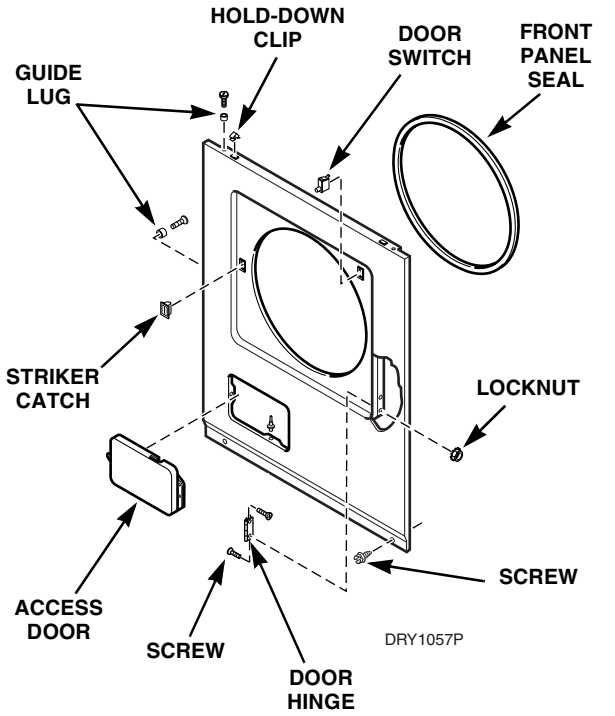


Figure 13

i. Remove two screws from bottom edge of front panel. Refer to *Figure 13*.
j. Swing bottom of panel away from dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
k. Disconnect wires from door switch. Refer to *Figure 18*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

l. Remove two cabinet top hold-down screws. Refer to *Figure 14*.
m. Lift cabinet top to a vertical position by hinging it on the rear hold-down bracket. Refer to *Figure 15*.

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

n. Carefully withdraw the wire harness through hole in cabinet top and lift the entire cabinet top assembly off the hold-down brackets. Refer to *Figure 15*.
o. Lay the cabinet top assembly flat, remove two carriage bolts, washers, lockwashers and nuts holding meter case to cabinet top and remove meter case. Refer to *Figure 12*.

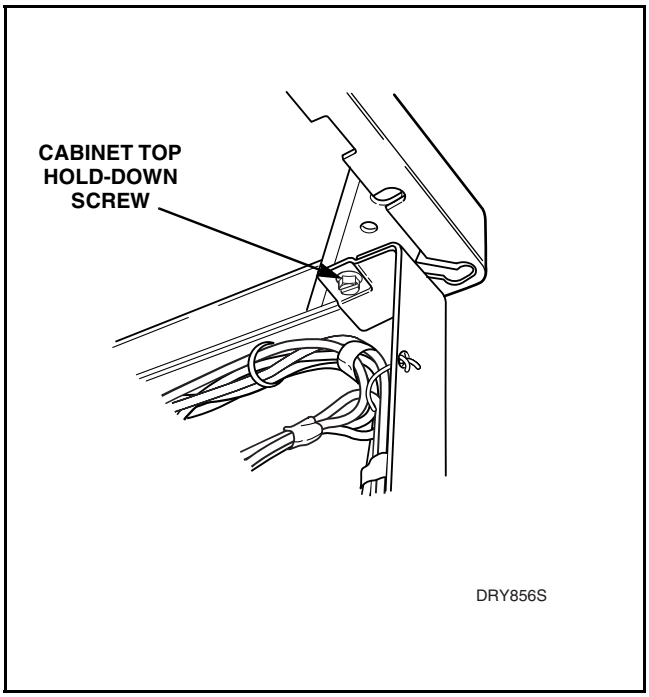


Figure 14

30. TIMER CASE

a. Remove two control panel attaching screws and lift assembly off cabinet top. Refer to *Figure 7*.
b. Disconnect all wires to temperature switch, push-to-start switch and indicator light and remove ground clip and screw holding ground wire to cabinet top and control panel. Refer to *Figure 5*.

NOTE: Refer to the appropriate wiring diagram when reconnecting wires.

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

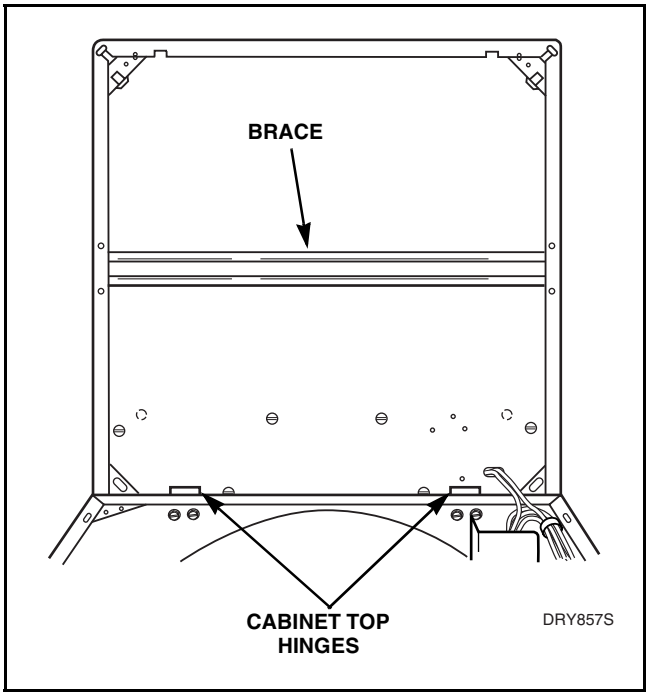


Figure 15

c. Remove four screws and lockwasher holding timer and plate to timer case. Refer to *Figure 8*.

NOTE: When reinstalling timer plate, lockwasher must be between head of screw and plate.

d. Pull timer and plate out of timer case as far as wires will permit. Refer to *Figure 8*.
e. Remove screw, lockwasher and locknut holding ground wires to timer. Refer to *Figure 8*.
f. Disconnect wires from timer. Refer to *Figure 8*.

NOTE: Refer to the appropriate wiring diagram when rewiring the timer.

g. Remove cap screw, lockwashers and nut holding timer case to control hood. Refer to *Figure 7*.
h. Remove two screws from bottom edge of the front panel. Refer to *Figure 13*.
i. Swing bottom of panel away from dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
j. Disconnect wires from door switch. Refer to *Figure 18*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

k. Remove two cabinet top hold-down screws. Refer to *Figure 14*.
l. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. Refer to *Figure 15*.

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

m. Carefully withdraw the wire harness through hole in cabinet top and lift the entire cabinet top assembly off the hold-down brackets. Refer to *Figure 15*.
n. Lay the cabinet top assembly flat, remove two carriage bolts, washers, lockwashers and nuts holding meter case to cabinet top and remove meter case. Refer to *Figure 8*.
o. Remove screw holding rear of case to cabinet top and remove case. Refer to *Figure 8*.

31. CABINET TOP – NONMETERED MODELS

a. Remove two control panel attaching screws and lift assembly off cabinet top. refer to *Figure 7*.
b. Disconnect all wires to temperature switch, push-to-start switch and indicator light and remove ground clip and screw holding ground wire to cabinet top and control panel. Refer to *Figure 5*.

NOTE: Refer to the appropriate wiring diagram when reconnecting wires.

c. Remove four screws and lockwasher holding timer and plate to timer case. Refer to *Figure 8*.

NOTE: When reinstalling timer plate, lockwasher must be between head of screw and plate.

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

d. Pull timer and plate out of timer case as far as wires will permit. Refer to *Figure 8*.
e. Remove screw, lockwasher and locknut holding ground wires to timer. Refer to *Figure 8*.
f. Disconnect wires from timer. Refer to *Figure 8*.

NOTE: Refer to the appropriate wiring diagram when rewiring the timer.

g. Remove cap screw, lockwashers and nut holding timer case to control hood. Refer to *Figure 7*.
h. Remove two screws holding control hood to cabinet top and lift hood off rear tabs. Refer to *Figure 7*.
i. Remove two screws from bottom edge of the front panel. Refer to *Figure 13*.
j. Swing bottom of panel away from dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
k. Disconnect wires from door switch. Refer to *Figure 18*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

l. Remove two cabinet top hold-down screws. Refer to *Figure 14*.
m. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. Refer to *Figure 15*.

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

n. Carefully withdraw the wire harness through hole in cabinet top and lift the entire cabinet top assembly off the hold-down brackets. Refer to *Figure 15*.
o. Lay the cabinet top assembly flat, remove two carriage bolts, washers, lockwashers and nuts holding meter case to cabinet top and remove meter case. Refer to *Figure 12*.
p. Remove screw holding rear of case to cabinet top and remove case. Refer to *Figure 8*.
q. Remove brace from underside of cabinet top by swinging one end toward front or rear. Refer to *Figure 15*.

32. CABINET TOP – METERED MODELS

a. Remove two control panel attaching screws and lift assembly off cabinet top. Refer to *Figure 7*.
b. Disconnect all wires to temperature switch, push-to-start switch and indicator light and remove ground clip and screw holding ground wire to cabinet top and control panel. Refer to *Figure 5*.

NOTE: Refer to the appropriate wiring diagram when reconnecting wires.

c. Insert key in service door lock on top of meter case and unlock door. Refer to *Figure 10*.
d. Lift rear end of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case. Refer to *Figure 10*.

NOTE: When reinstalling service door and accumulator, front end of door must be inserted at about a 45° angle in order to engage notched tabs with internal rib at top of meter case.

e. Disconnect accumulator wires at connectors. Refer to *Figure 10*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. Remove hex head ground screw holding green ground wire to accumulator mounting bracket. Refer to *Figure 10*.
g. Remove one hex head cap screw (right rear corner) holding meter case to cabinet top. Refer to *Figure 12*.
h. Remove nut, lockwasher and screw holding meter case to right end of control hood. Refer to *Figure 12*.
i. Remove two screws holding control hood to cabinet top and lift hood off rear tabs. Refer to *Figure 7*.

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

j. Remove two screws from bottom edge of front panel. Refer to *Figure 13*.
k. Swing bottom of panel away from dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
l. Disconnect wires from door switch. Refer to *Figure 18*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

m. Remove two cabinet top hold-down screws. Refer to *Figure 14*.
n. Lift cabinet top to a vertical position by hinging it on the rear hold-down bracket. Refer to *Figure 15*.

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

o. Carefully withdraw the wire harness through hole in cabinet top and lift the entire cabinet top assembly off the hold-down brackets. Refer to *Figure 15*.
p. Lay the cabinet top assembly flat, remove two carriage bolts, washers, lockwashers and nuts holding meter case to cabinet top and remove meter case. Refer to *Figure 12*.
q. Remove brace from underside of cabinet top by swinging one end toward front or rear. Refer to *Figure 15*.

33. CABINET TOP – CARD READER MODELS

a. Remove panel lock (if present). Refer to *Figure 7*.

NOTE: Several turns of the key may be required to remove panel lock.

b. Remove two control panel attaching screws and lift assembly off cabinet top. Refer to *Figure 7*.
c. Disconnect the wires from the timer and relays. Refer to *Figure 7*.
d. Remove the screws and grounding clip holding the green ground wire to the cabinet top, control panel and timer. Refer to *Figure 6*.
e. Remove two screws holding timer mounting bracket assembly to cabinet top. Refer to *Figure 7*.
f. Remove two screws holding control hood to cabinet top and lift hood off rear tabs and set to the side with the reader control wires still attached. Refer to *Figure 7*.
g. Remove two screws from bottom edge of front panel. Refer to *Figure 13*.
h. Swing bottom of panel away from dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
i. Disconnect wires from door switch. Refer to *Figure 18*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

j. Remove two cabinet top hold-down screws. Refer to *Figure 14*.
k. Lift cabinet top to a vertical position by hinging it on the rear hold-down bracket. Refer to *Figure 15*.

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

l. Carefully withdraw the wire harness through hole in cabinet top and lift the entire cabinet top assembly off the hold-down brackets. Refer to *Figure 15*.

NOTE: The instruction plate located on the cabinet top will need to be replaced when replacing the top.

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

34. LINT FILTER

Refer to *Figure 16.*

a. Open loading door and remove screw on each end of lint filter.

b. Lift filter out of front air duct.

NOTE: Be sure to replace the filter with the word "Front" facing the front of the dryer.

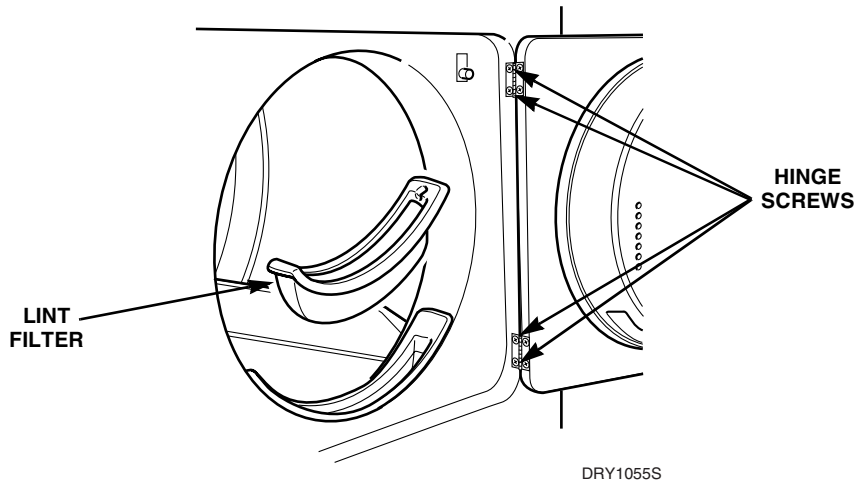


Figure 16

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.**

W001R1

35. LOADING DOOR

Remove four screws holding hinges to door. Refer to *Figure 16*.

36. INNER AND OUTER DOOR PANELS AND DOOR HANDLE

a. Remove four screws holding hinges to door. Refer to *Figure 16*.

b. Remove screws holding handle to door and separate panels. Refer to *Figure 17*.

IMPORTANT: Do not over-tighten screws when reinstalling door handle and avoid scratching inner door panel.

37. DOOR STRIKER

Refer to *Figure 17*.

a. Remove two 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 panel.

38. DOOR SEAL

Refer to *Figure 17*.

Open loading door and remove seal from inner door panel.

NOTE: When replacing seal, be sure seal is not stretched or distorted. Use a heat resistant adhesive (such as Krazy Glue®) to adhere door seal to inner door panel.

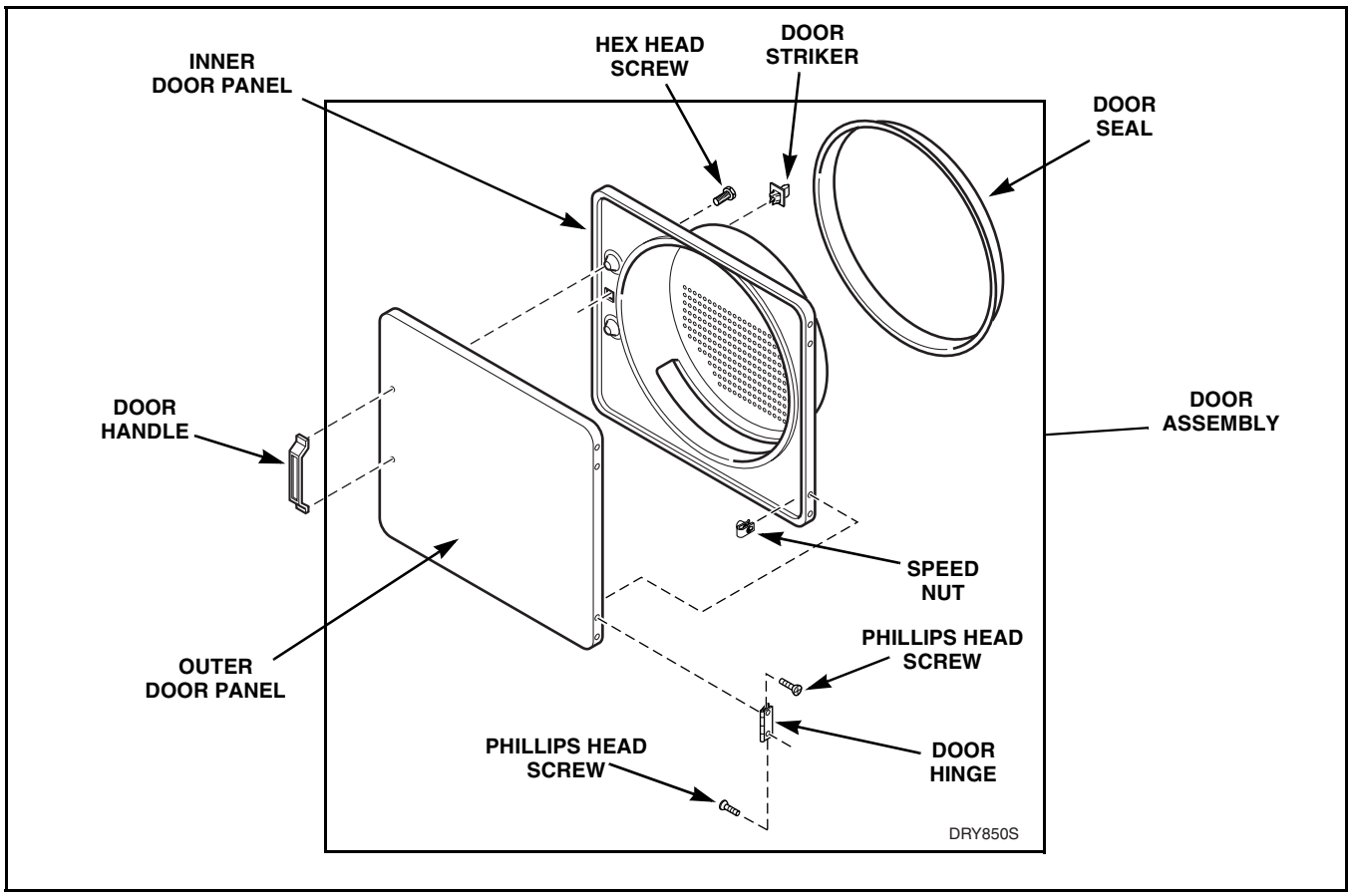


Figure 17

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

39. FRONT PANEL AND PANEL SEAL

Refer to *Figure 13*

a. Remove two screws from the bottom edge of the front panel.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top.

c. Disconnect wires from door switch. Refer to *Figure 18*.

NOTE: Refer to the 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.

40. DOOR SWITCH

Refer to *Figure 13*

a. Remove two screws from the bottom edge of the front panel.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top.

c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Depress tabs on top and bottom of switch and push out of front panel. Refer to *Figure 18*.

To Test Door Switch

1. Set meter to read Ohms and apply meter probes on switch terminals with door closed. You should get “zero” reading.
2. Open door. Meter should read “infinite.”

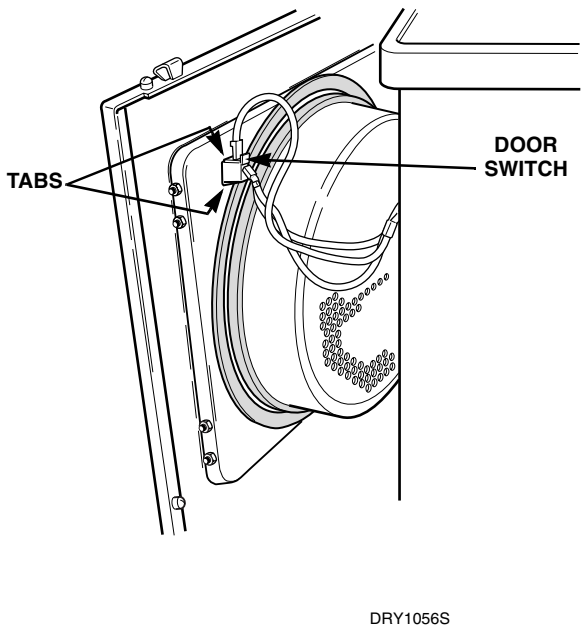


Figure 18

41. STRIKER CATCH

Refer to *Figure 13*

a. Remove two screws from the bottom edge of the front panel.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top.

c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Depress tabs on top and bottom of catch and push out of front panel. Refer to *Figure 18*.

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

42. DOOR HINGE

a. Open loading door and remove four screws holding door assembly to hinges. Refer to *Figure 16*.

b. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

c. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

d. Disconnect wires from door switch. Refer to *Figure 18*.

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

e. Remove four screws and locknuts holding hinges to front panel. Refer to *Figure 13*.

43. HOLD-DOWN CLIPS AND GUIDE LUGS

Refer to *Figure 13*

a. Remove two screws from the bottom edge of the front panel.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top.

c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Compress hold-down clips and remove from slot in top flange of front panel.

e. Remove four screws holding four guide lugs to front panel. Refer to *Figure 13*.

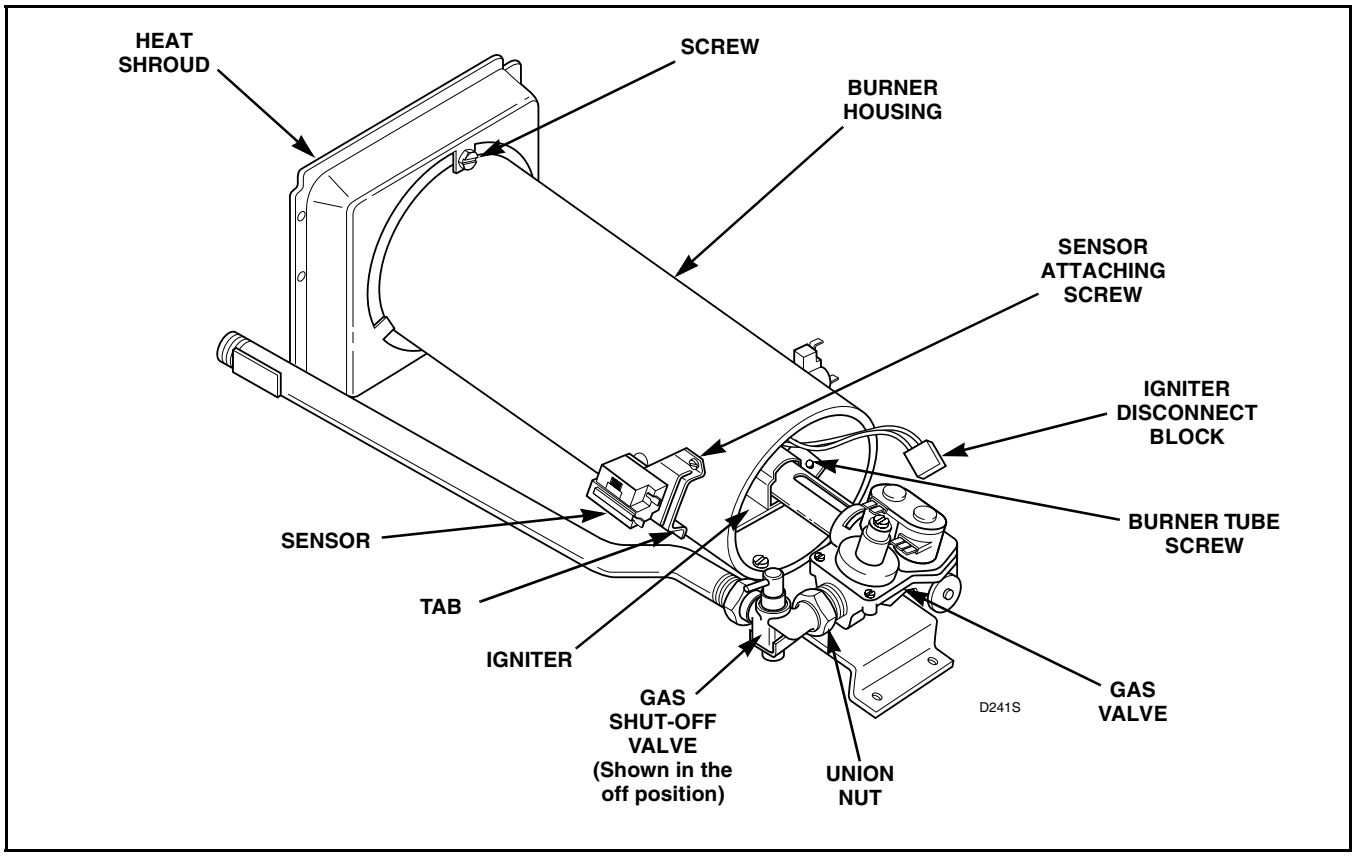


Figure 19

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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44. BURNER SYSTEM OPERATION (Gas Models)

Refer to *Figure 20*

a. **Components**

This burner has four basic components: A silicon carbide (glow bar) igniter, burner tube, sensor, and a two-stage gas valve consisting of a split-coil valve and a secondary coil valve. 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**

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

c. **Burner Circuit**

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

45. IGNITION SYSTEM FEATURES (Gas Models)

Refer to *Figure 20*

a. **Momentary Power Interruption**

Upon resumption of power, sensor contacts will still be open, permitting secondary valve to open. However, with the secondary coil in the circuit, the booster coil cannot draw enough current to open the split-coil valve. 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**

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

c. **Ignition Failure**

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

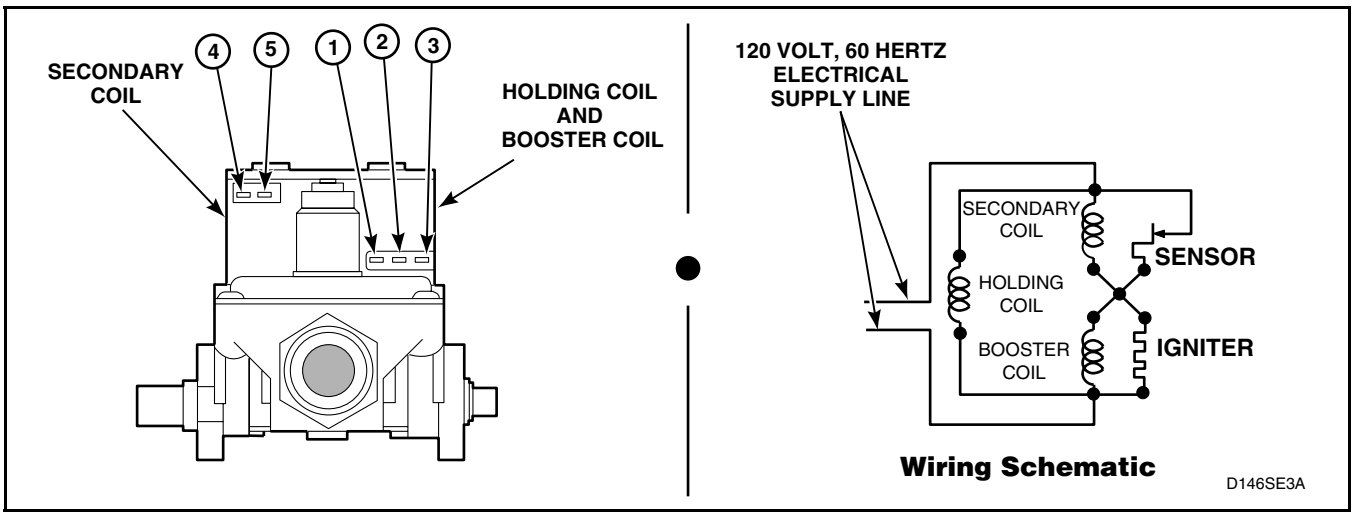

Figure 20

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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To Test Electrical Circuit To Ignition System (Gas Models)

1. Remove valve wire harness disconnect block from the holding and booster coil. Refer to *Figure 20*.
2. Plug dryer power cord into wall receptacle, start the dryer in a heat setting (refer to the Operating Instructions supplied with dryer).
3. Set test meter to read AC voltage and apply meter probes into terminals on the dryer harness that would correspond to terminals "1" and "2" on the coil. Refer to *Figure 20*. Meter should register line voltage in all Fabric settings, except FLUFF which should read "zero" VAC.
4. If meter does not read line voltage in step "3", check motor switch, thermostat, thermistor, temperature switch or timer.

To Test Gas Valve Coils (Gas Models)

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

1. Remove disconnect blocks from gas valve coils.
2. Set test meter to read OHMS and put meter probes to terminals as follows:
   a. Holding Coil (Refer to *Figure 21*) – Terminals 1 and 2 - Meter should read 1365 ± 25 Ohms.
   b. Booster Coil (Refer to *Figure 21*) – Terminals 1 and 3 - Meter should read 560 ± 25 Ohms.
   c. Secondary Coil (Refer to *Figure 21*) – Terminals 4 and 5 - Meter should read 1220 ± 50 Ohms.

NOTE: If meter registers any readings other than that listed above, the respective coil should be replaced.

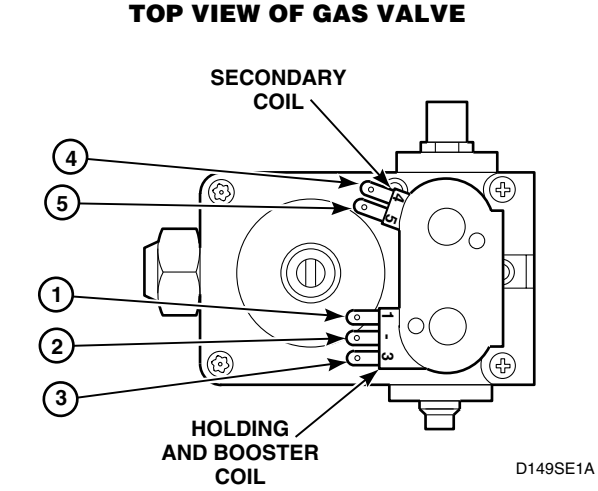

Figure 21

46. BURNER SYSTEM COMPONENTS – GAS MODELS

a. **Complete Gas Valve Assembly**

(1) Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

(2) Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

(3) Disconnect wires from door switch. Refer to *Figure 18*.

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

(4) Close gas shut-off valve, disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 19*.

(5) Disconnect gas shut-off valve from gas valve at the union nut. Refer to *Figure 19*.

(6) Remove three screws holding valve and mounting bracket to base. Refer to *Figure 19*.

(7) Lift gas valve and mounting bracket from base. Refer to *Figure 19*.

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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NOTE: The holding and booster coil, and secondary coil can be replaced individually.

b. **Burner Tube, Igniter and Bracket**

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

(1) Remove one screw from right side of burner housing holding burner tube in place. Refer to *Figure 23*.
(2) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 19*.
(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.
(5) Remove screw holding the igniter and bracket to the burner tube and remove igniter and bracket. Refer to *Figure 22*.

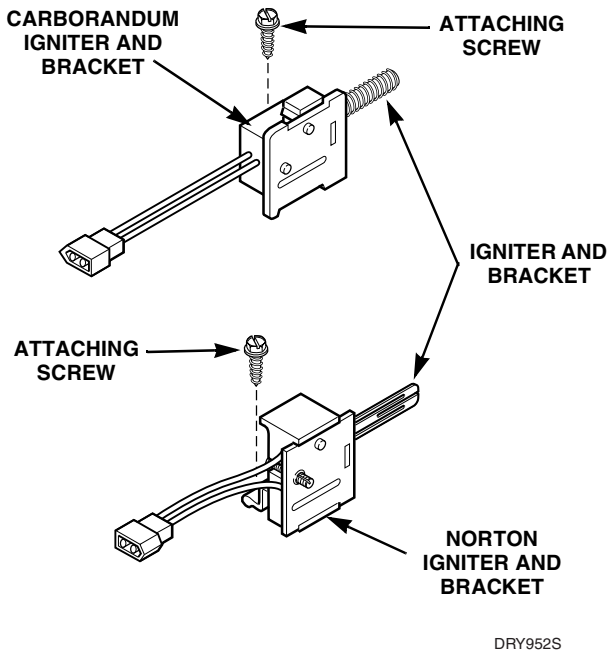

Figure 22

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 portion or bracket 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.

To Test Igniter (Gas Models) Refer to *Figure 22*.

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

1. Disconnect igniter wires at disconnect block. Refer to *Figure 19*.
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. If meter does not register any Ohms or less than 40 Ohms, replace the igniter.

IMPORTANT: Always examine all wires, terminals and connectors to be sure wiring is proper before replacing any components.

c. **Sensor – Refer to *Figure 19*.**

(1) Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.
(2) Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
(3) Disconnect wires from door switch. Refer to *Figure 18*.

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

(4) Remove wires from sensor terminals. Refer to *Figure 19*.
(5) Remove screw holding sensor to burner housing. Refer to *Figure 19*.

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 Sensor (Gas Models)

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

1. Remove wires from sensor terminals. Refer to *Figure 19*.
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.

47. BURNER HOUSING AND HEAT SHROUD

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.
b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 19*.
e. Remove screw from right side of burner housing, holding burner tube in place. Refer to *Figure 23*.
f. Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 19*.
g. Carefully rotate burner tube and igniter **counterclockwise** so tab is at 8 o'clock position.
h. Move air shutter end of burner tube slightly to right and CAREFULY remove burner tube and igniter assembly out through front of door.

IMPORTANT: The igniter is very fragile. Be careful not to damage it during removal.

i. Remove screw holding burner housing to heat shroud. Refer to *Figure 19*.
j. Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. Refer to *Figure 23*.
k. Remove two screws holding shroud to heater box and remove shroud out through front of dryer.

48. LIMIT THERMOSTAT

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.
b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Disconnect wires and remove screws attaching limit thermostat to burner housing or element plate. Refer to *Figure 23*.

To Test Cycling or Limit Thermostat

1. Disconnect wires from thermostat.

NOTE: Refer to appropriate wiring diagram when rewiring thermostat or thermistor.

2. **Cycling Thermostat (S.P.S.T.) or Limit Thermostat**
   a. Set meter to read Ohms.
   b. Apply meter probes to the thermostat or thermistor terminals.
   c. Meter should read "infinite".
3. **Cycling Thermostat (S.P.D.T.)**
   a. Set meter to read Ohms.
   b. Apply meter probes to terminals 1 and 3. Meter should read "infinite."
   c. Remove screws holding thermostat to exhaust fan cover.
   d. Heat thermostat with a small flame until a distinct "click" is heard, then immediately apply meter probes to terminals 1 and 3; meter should read "zero".

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

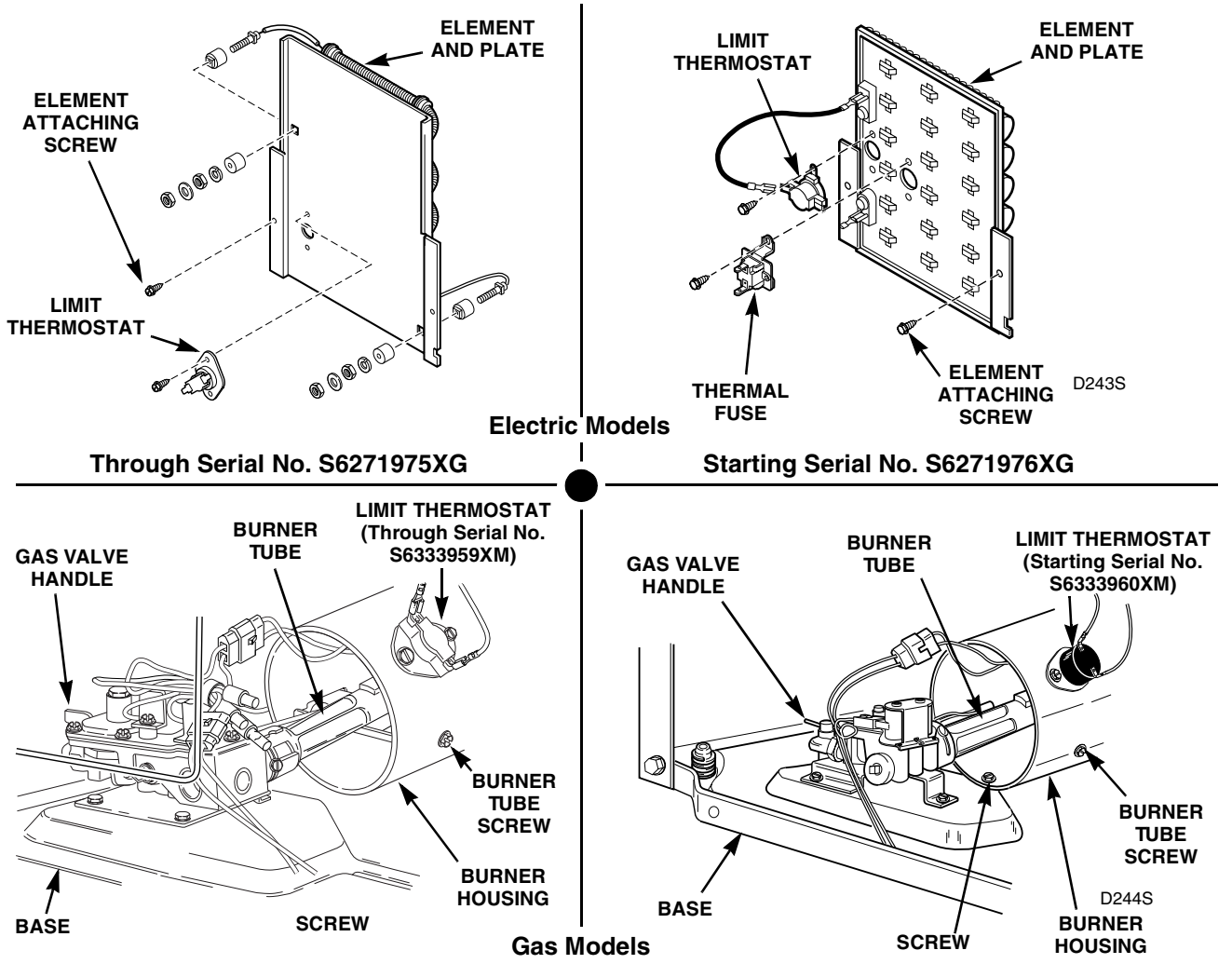

Figure 23

49. HEATING ELEMENT

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.
b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Remove two screws holding element and plate to heater box and pull element down and away from heater box. Refer to *Figure 23*.
e. Disconnect wires from element and plate. Refer to *Figure 23*.
f. Remove screws holding thermostat (and thermal fuse, if present) to element and plate. Refer to *Figure 23*.

NOTE: When reassembling, be sure all wire connectors are tight on element terminals, thermal fuse and limit thermostat.

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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50. HIGH OR LOW THERMOSTAT OR THERMOSTAT AND HEATER

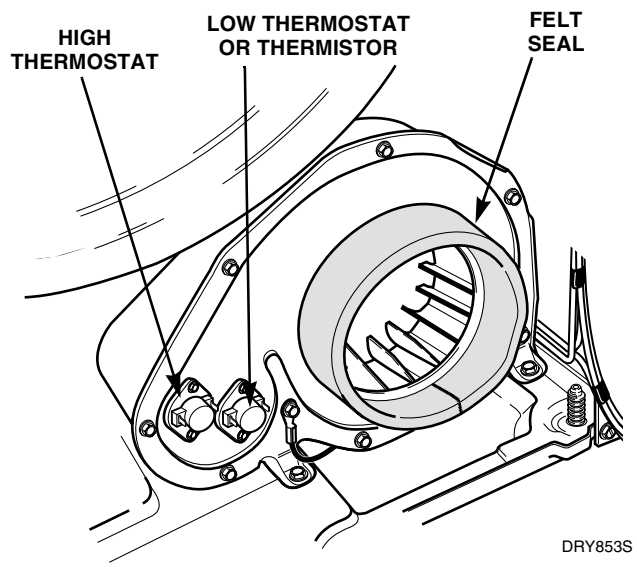
a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

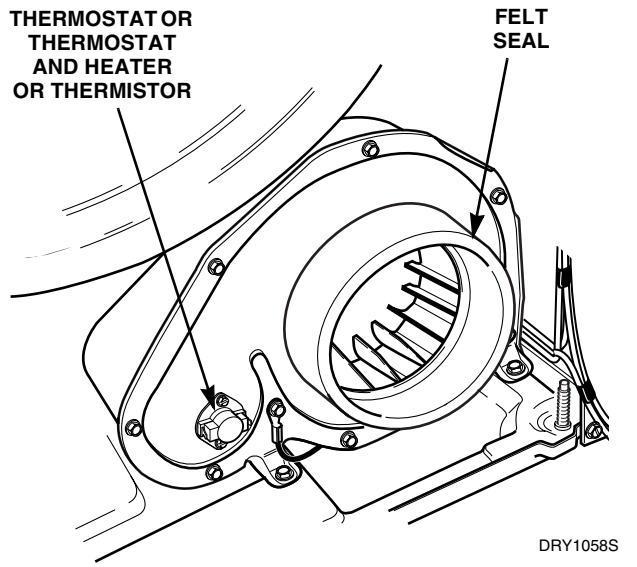
c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Disconnect wires, remove thermostat attaching screws, and remove thermostat or thermostat and heater. Refer to *Figure 24*.



Through Serial No. S6271975XG



Starting Serial No. S6271976XG

Figure 24

To Test Thermostat Heater

1. Disconnect wires from thermostat heater.

NOTE: Refer to appropriate wiring diagram when rewiring thermostat heater.

2. Set meter to read Ohms. Apply meter probes to the thermostat heater terminals. Meter should read 1,600 Ohms ± 160 Ohms cold.

To Test Thermal Fuse (Electric Models)

1. Disconnect wires from thermal fuse.

NOTE: Refer to appropriate wiring diagram when rewiring thermal fuse.

2. Set meter to read Ohms. Apply meter probes to thermal fuse terminals. Meter should read "infinite". If meter does not register any Ohms, replace both the thermal fuse and the limit thermostat.

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 Heater Assembly (Electric Models)

1. Disconnect wires from heater assembly.

NOTE: Refer to appropriate wiring diagram when rewiring heater assembly.

2. Set meter to read Ohms. Apply meter probes to the heater assembly terminals. Meter should read 10.4 Ohms ± .30 Ohms cold.

51. FRONT AIR DUCT

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Remove two screws from lint filter and lift filter out of bulkhead. Refer to *Figure 16*.

NOTE: When installing lint filter, be sure to install the filter with the word "FRONT" facing the front of the dryer.

e. Remove four screws holding duct to front bulkhead and remove air duct. Refer to *Figure 25*.

NOTE: When reassembling, be sure felt seal on exhaust fan cover makes air tight seal on flange of duct. Refer to *Figure 24*.

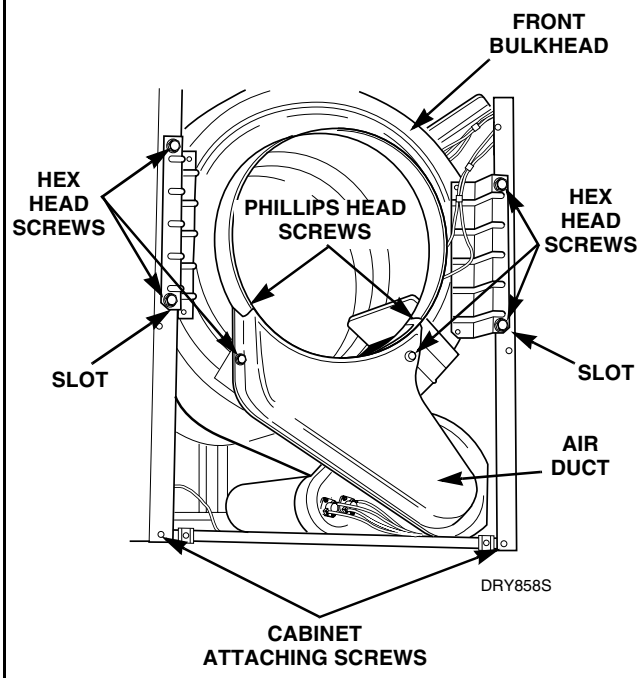

Figure 25

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

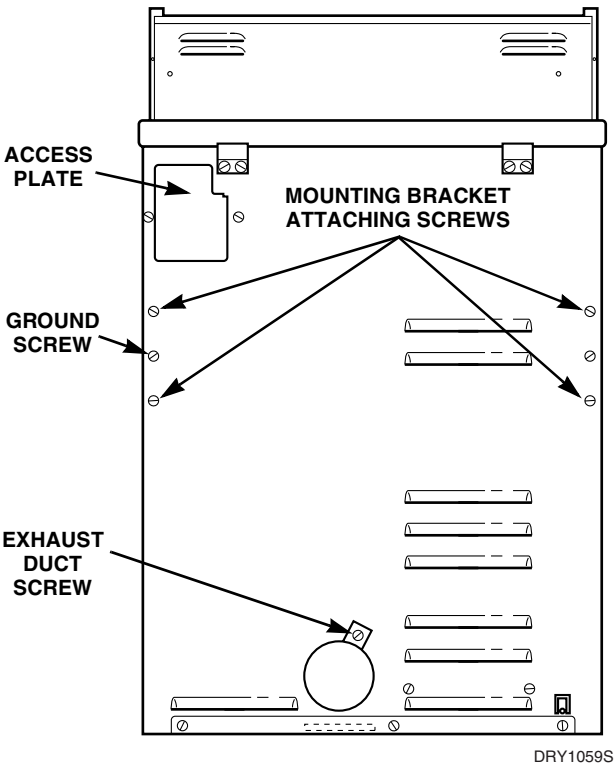

Figure 26

52. EXHAUST DUCT

a. Disconnect electric power, vent (and gas line if necessary) and move unit to gain access to rear of dryer.
b. Remove screw holding bracket on exhaust duct to rear of cabinet. Refer to *Figure 26*.
c. Pull duct out through rear of cabinet.

53. MOTOR AND EXHAUST ASSEMBLY

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.
b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Remove lint filter. Refer to *Figure 16*.

NOTE: When installing lint filter, be sure to install the filter with the word "FRONT" facing the front of the dryer.

e. Remove screws holding air duct to front bulkhead and remove air duct. Refer to *Figure 25*.

NOTE: When reassembling, be sure felt seal on exhaust fan cover makes air tight seal on flange of air duct. Refer to *Figure 24*.

f. Disconnect wires from thermostats. Refer to *Figure 24*.

NOTE: Refer to appropriate wiring diagram when rewiring thermostats or thermostat and heater.

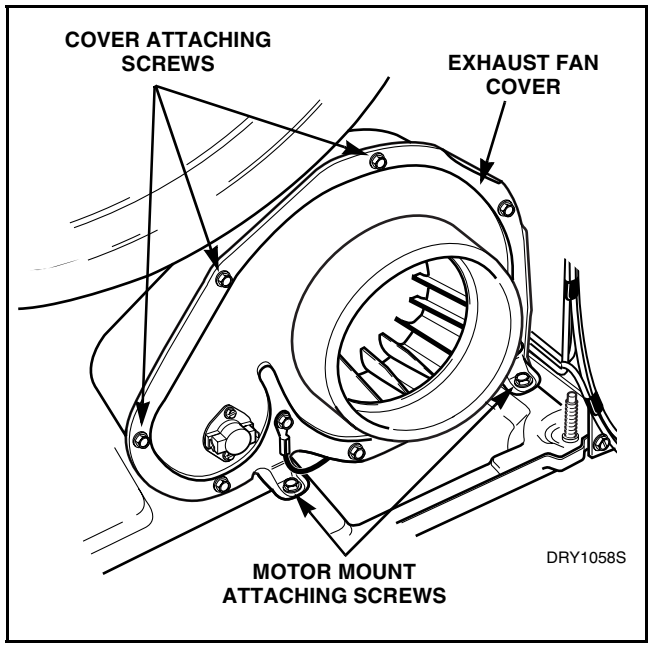

Figure 27

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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g. Remove cylinder belt from idler and motor pulleys. Refer to *Figure 28*.

h. Remove two screws holding motor mounting bracket to dryer base. Refer to *Figure 27*. Then pull complete assembly out thorough front of dryer.

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 27*. Tab on rear of motor mounting bracket must be slid into slot in dryer base. Be sure the belt has been installed on the correct side of the idler lever. Refer to *Figure 28*.

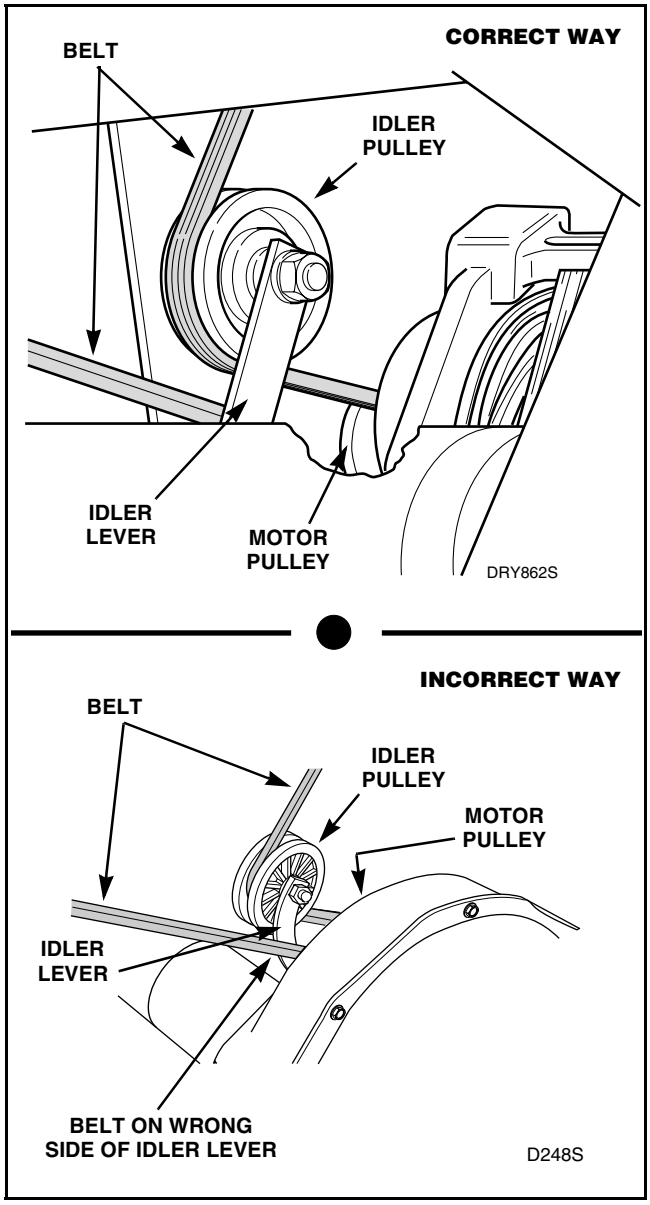

Figure 28

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 29*.

1. Remove motor and exhaust assembly.
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 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, meter should read approximately two 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, meter should read “zero” Ohms.

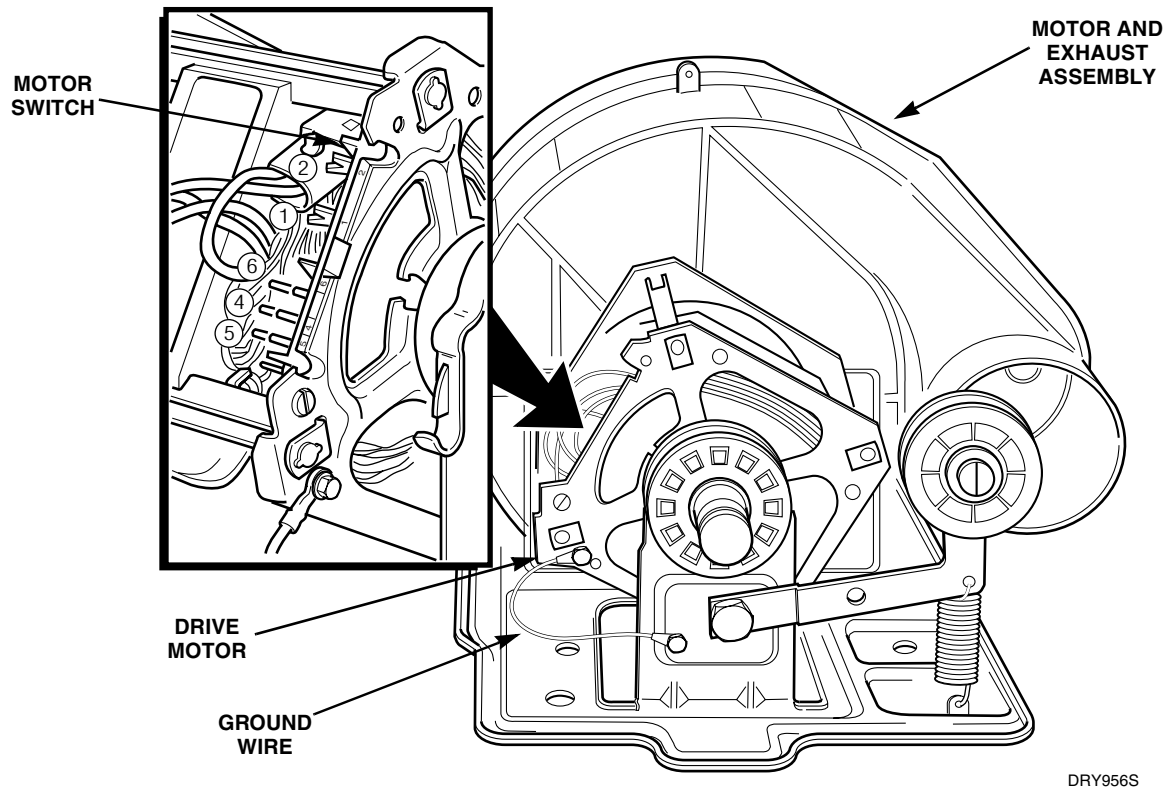

Figure 29

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

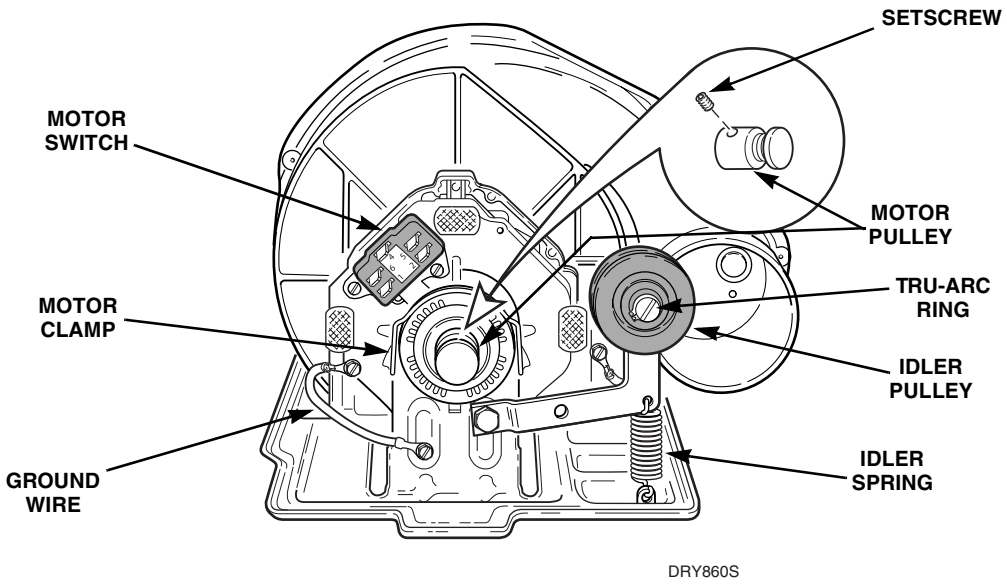

Figure 30

i. **Motor Pulley and Idler Pulley Assemblies**
   (1) Refer to *Figure 30* for motor and idler pulley removal.

j. **Impeller and Housing**
   (1) Remove screw holding ground wire (if present) to exhaust fan cover. Refer to *Figure 27*.

NOTE: Ground wire must be routed as shown in *Figure 2*. Refer to SECTION IV "Grounding."

   (2) Remove screws holding cover to housing. Refer to *Figure 27*.
   (3) Hold motor pulley securely and unthread impeller from motor shaft (right hand thread). Use a 7/8 inch, 6 point socket to aid in the removal of the impeller.
   (4) Remove three screws and washers holding the exhaust housing to the motor mounting bracket. Refer to *Figure 31*.

k. **Motor**
   (1) Disconnect wires from motor switch. Refer to *Figure 30*.

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

   (2) Disconnect ground wire from motor. Refer to *Figure 30*.
   (3) Pry two motor clamps off using a screwdriver. Refer to *Figure 30*. Then lift motor out of mounting bracket.

NOTE: When replacing motor, motor switch location should be at 10 o'clock position with the positioning tab on the motor engaged with the notch in the motor bracket. Refer to appropriate wiring diagram when rewiring motor switch leads.

54. FRONT BULKHEAD ASSEMBLY
   a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.
   b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
   c. Disconnect wires from door switch. Refer to *Figure 18*.

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

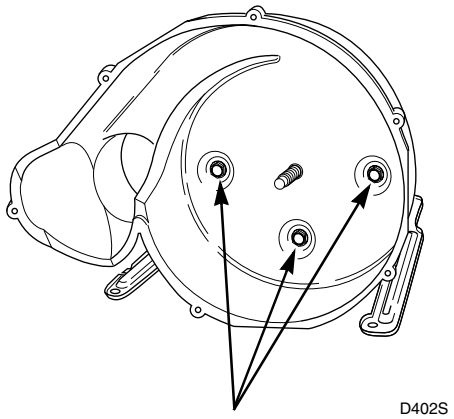

Figure 31

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

d. Disengage belt from motor and idler pulleys. Refer to *Figure 28.*
e. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 32*.

NOTE: During reinstallation of front bulkhead, be sure that air duct is properly positioned with the flange inside of the felt seal on the exhaust fan cover.

f. **Cylinder Glide** – Refer to *Figure 33*.
   (1) Remove two screws holding glide to each glide bracket.
g. **Front Cylinder Seal** – Refer to *Figure 33*.
   (1) Pull front cylinder seal from under flanged edge of bulkhead.
   (2) Carefully unhook spring from seal strap.

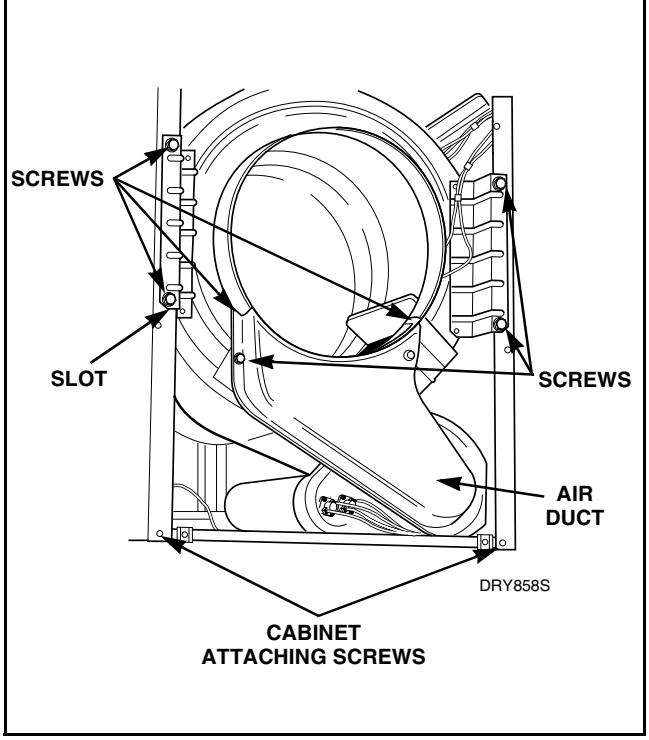

Figure 32

IMPORTANT: 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. Strap must be installed with cupped surface down against the seal to hold the felt seal more firmly in place on the bulkhead. Seal must be held securely under strap and folded under flanged edge around entire bulkhead.

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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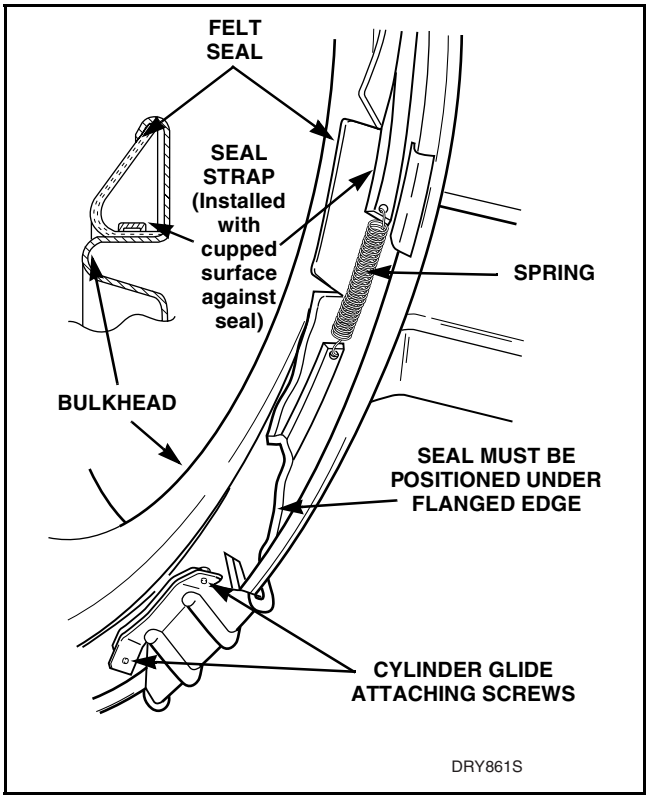

Figure 33

55. CYLINDER BELT

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Disengage belt from motor and idler pulleys, *Figure 28*.

e. Remove four screws holding bulkhead to front flange of cabinet. Lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 32*.

IMPORTANT: During reinstallation of front bulkhead, be sure that air duct is properly positioned with the flange inside of the felt seal on the exhaust fan cover.

f. While supporting cylinder, carefully remove belt off cylinder.

NOTE: When installing belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. Refer to *Figure 28*. Belt must be positioned around cylinder between center and rear baffle screws with the ribbed surface against the cylinder. After installing belt, rotate cylinder manually to check that belt is properly aligned.

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

56. CYLINDER ASSEMBLY

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Disengage belt from motor and idler pulleys. Refer to *Figure 28*.

NOTE: When installing belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. Refer to *Figure 28*. Belt must be positioned around cylinder between center and rear baffle screws with the ribbed surface against the cylinder. After installing belt, rotate cylinder manually to check that belt is properly aligned.

e. Remove four screws holding bulkhead to front flange of cabinet. Lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 32*.

IMPORTANT: During reinstallation of front bulkhead, be sure that air duct is properly positioned with the flange inside of the felt seal on the exhaust fan cover.

f. Loosen two cabinet top hold-down screws. Refer to *Figure 14*.

g. Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.

NOTE: On models using unpainted, corrosion resistant, coated steel cylinder, the cylinder must be installed with the side marked "FRONT" or the arrow pointing toward the front of the dryer.

h. **Baffle**s

(1) Remove screws holding baffles to cylinder. Refer to *Figure 34*.

IMPORTANT: On models using unpainted, corrosion resistant, coated steel cylinder, the elongated baffle must be installed to cover the cylinder seam weld. Refer to *Figure 34*.

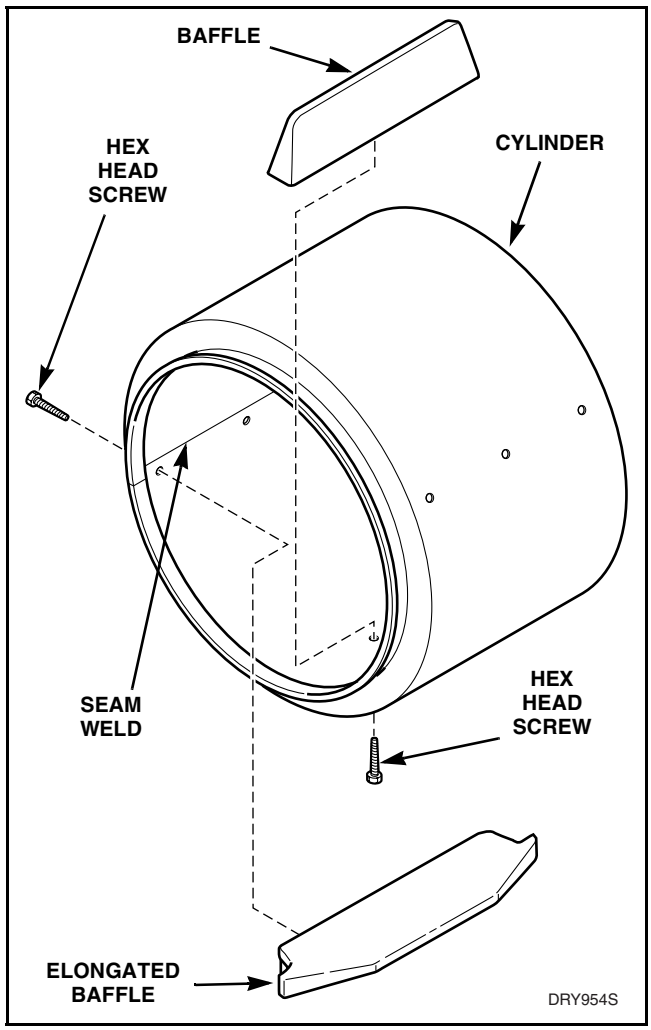

Figure 34

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

57. REAR SEAL

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.
b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Remove two cabinet top hold-down screws. Refer to *Figure 14*.
e. Insert key in service door lock on top of meter case and unlock door. Refer to *Figure 10*.
f. Lift rear end of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case. Refer to *Figure 10*.
g. Remove one hex head cap screw (right rear corner) holding meter case to cabinet top. Refer to *Figure 12*. (Metered models only)
h. Raise front of cabinet top, hinging it on the rear hold-down brackets. Refer to *Figure 15*.

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

i. Disengage belt from motor and idler pulleys. Refer to *Figure 28*.

NOTE: When installing belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. Refer to *Figure 28*. Belt must be positioned around cylinder between center and rear baffle screws with the ribbed surface against the cylinder. After installing belt, rotate cylinder manually to check that belt is properly aligned.

j. Remove four screws holding bulkhead to front flange of cabinet. Lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 32*.

IMPORTANT: During reinstallation of front bulkhead, be sure that air duct is properly positioned with the flange inside of the felt seal on the exhaust fan cover.

k. Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.

NOTE: On models using unpainted, corrosion resistant, coated steel cylinder, the cylinder must be installed with side marked "FRONT" or the arrow pointing toward the front of the dryer.

l. Pull rear cylinder seal from under flanged edge of bulkhead. Refer to *Figure 33*.
m. Carefully unhook spring from the seal strap. Refer to *Figure 33*.

IMPORTANT: 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. Strap must be installed with cupped surface down against the seal to hold the felt seal more firmly in place on the bulkhead. Seal must be held securely under strap and folded under flanged edge around entire bulkhead.

58. CYLINDER ROLLERS

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.
b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.
c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Remove belt from motor and idler pulleys. Refer to *Figure 28*.

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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e. Remove four screws holding bulkhead to front flange of cabinet. Lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 32*.

IMPORTANT: During reinstallation of front bulkhead, be sure that air duct is properly positioned with the flange inside of the felt seal on the exhaust fan cover.

f. Pull cylinder forward, allowing rear of cylinder to drop down, exposing rollers. Refer to *Figure 35*.

g. Refer to *Figure 36* for removal of roller from roller shaft.

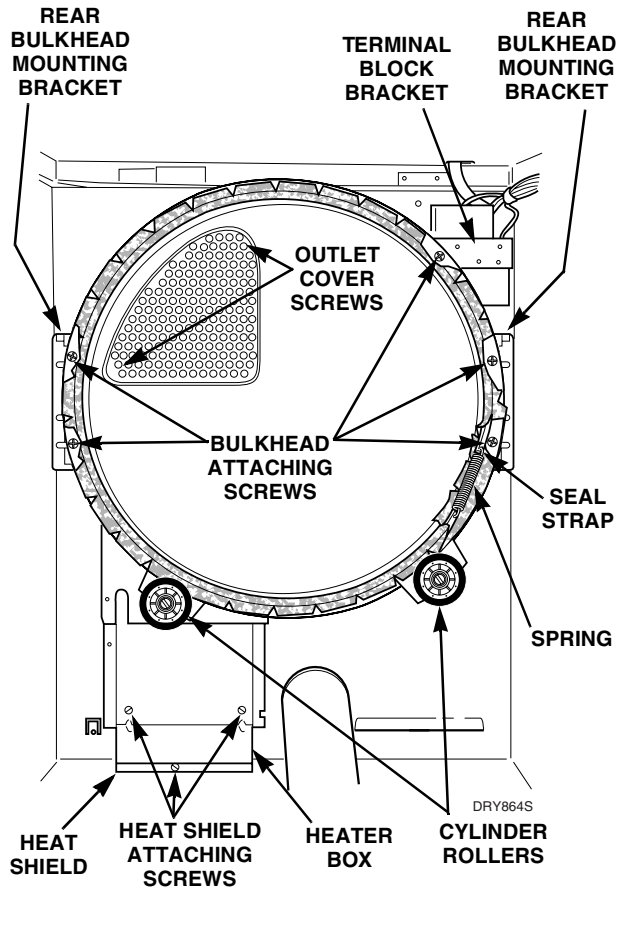

Figure 35

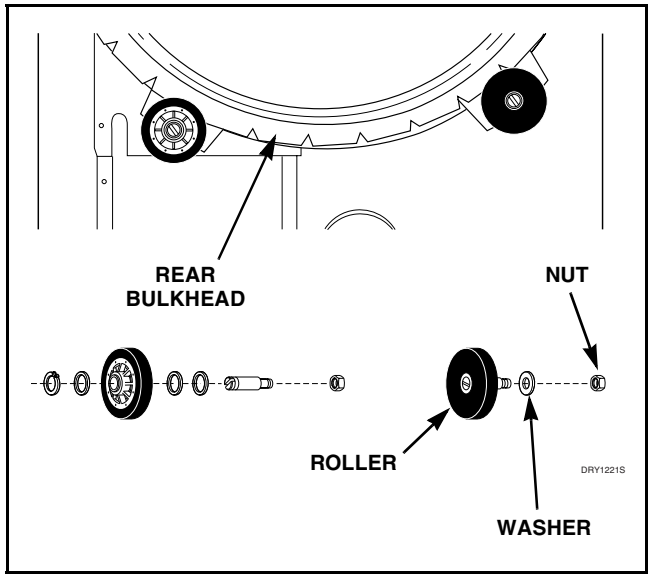

Figure 36

59. OUTLET COVER

Open door and remove two screws holding outlet cover to rear bulkhead. Refer to *Figure 35*.

60. REAR BULKHEAD AND HEATER BOX ASSEMBLIES

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

c. Disconnect wires from door switch. Refer to *Figure 18*.

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

d. Disengage belt from motor and idler pulleys. Refer to *Figure 28*.

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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NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. Refer to *Figure 28*. Belt must be positioned around cylinder between center and rear baffle screws with the ribbed surface against the cylinder. After installing belt, rotate cylinder manually to check that belt is properly aligned.

e. Remove four screws holding bulkhead to front flange of cabinet. Lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 32*.

IMPORTANT: During reinstallation of front bulkhead, be sure that air duct is properly positioned with the flange inside of the felt seal on the exhaust fan cover.

f. Loosen two cabinet top hold-down screws. Refer to *Figure 14*.

g. Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.

NOTE: On models using unpainted, corrosion resistant, coated steel cylinder, the cylinder must be installed with side marked "FRONT" or the arrow pointing toward the front of the dryer.

h. **Gas Models**
   (1) Disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 19*.
   (2) Remove screw from right side of burner housing, holding burner tube in place. Refer to *Figure 23*.
   (3) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 19*.
   (4) Carefully rotate burner tube and igniter **counterclockwise** so tab is at 8 o'clock position.
   (5) Move air shutter end of burner tube slightly to right and CAREFULLY remove burner tube and igniter assembly out through front of dryer.

IMPORTANT: The igniter is very fragile. Be careful not to damage it during removal.

   (6) Remove screw holding burner housing to heat shroud. Refer to *Figure 19*.
   (7) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. Refer to *Figure 23*.
   (8) Remove four screws holding shroud to heater box and remove shroud out through front of dryer. Refer to *Figure 19*.

i. **Electric Models**
   (1) Remove two screws holding element and plate to heater box, then pull element down and away from heater box. Refer to *Figure 23*.

j. Remove screw holding heat shield to dryer base. Refer to *Figure 35*.

k. Remove one screw holding rear bulkhead to terminal block bracket. While supporting bulkhead, remove the four screws holding rear bulkhead to mounting brackets, then lift complete assembly out of dryer. Refer to *Figure 35*.

l. **To remove heat shield from heater box:**
   (1) Remove two screws holding heat shield to heater box. Refer to *Figure 35*.

m. **To remove heater box from rear bulkhead:**
   (1) Refer to *Figure 37* for removal.

n. **Rear Mounting Brackets:**
   (1) Remove five screws holding rear mounting brackets to rear of dryer cabinet. Refer to *Figure 26*.

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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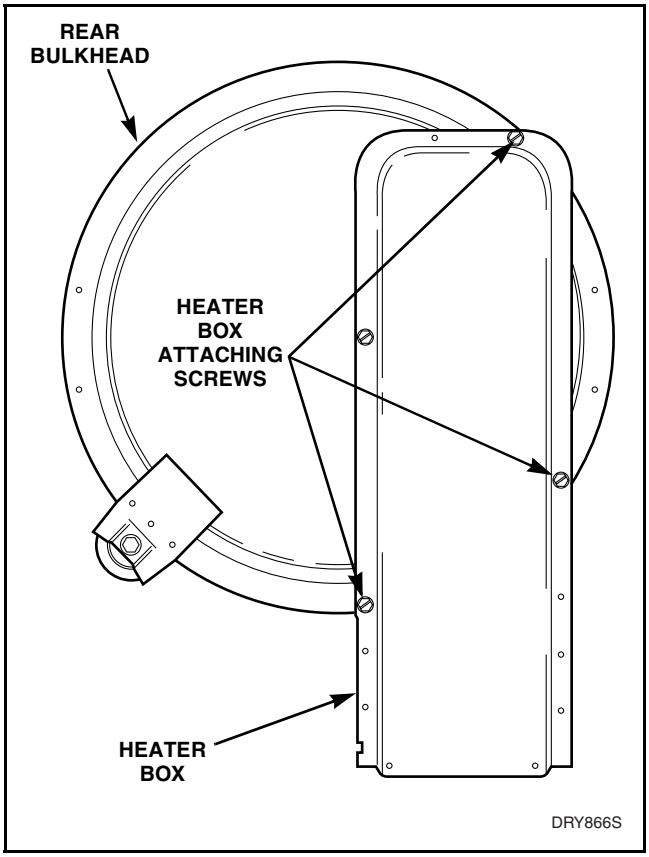

Figure 37

61. TERMINAL BLOCK OR POWER CORD

a. **Terminal Block – Electric Models (Refer to *Figure 38*)**

Through Serial No. S6270865XG:

(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 insulation drop when removing the block. Insulation must be in place when reinstalling block.

Starting Serial No. S6270866XG:

(1) Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

(2) Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

(3) Disconnect wires from door switch. Refer to *Figure 18*.

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

(4) Remove two cabinet hold-down screws. Refer to *Figure 14*.

(5) Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. Refer to *Figure 15*.

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

(6) Remove all wires from terminal block.

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

(7) Remove screw holding terminal block to bracket.

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

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 power cord from rear of dryer cabinet.

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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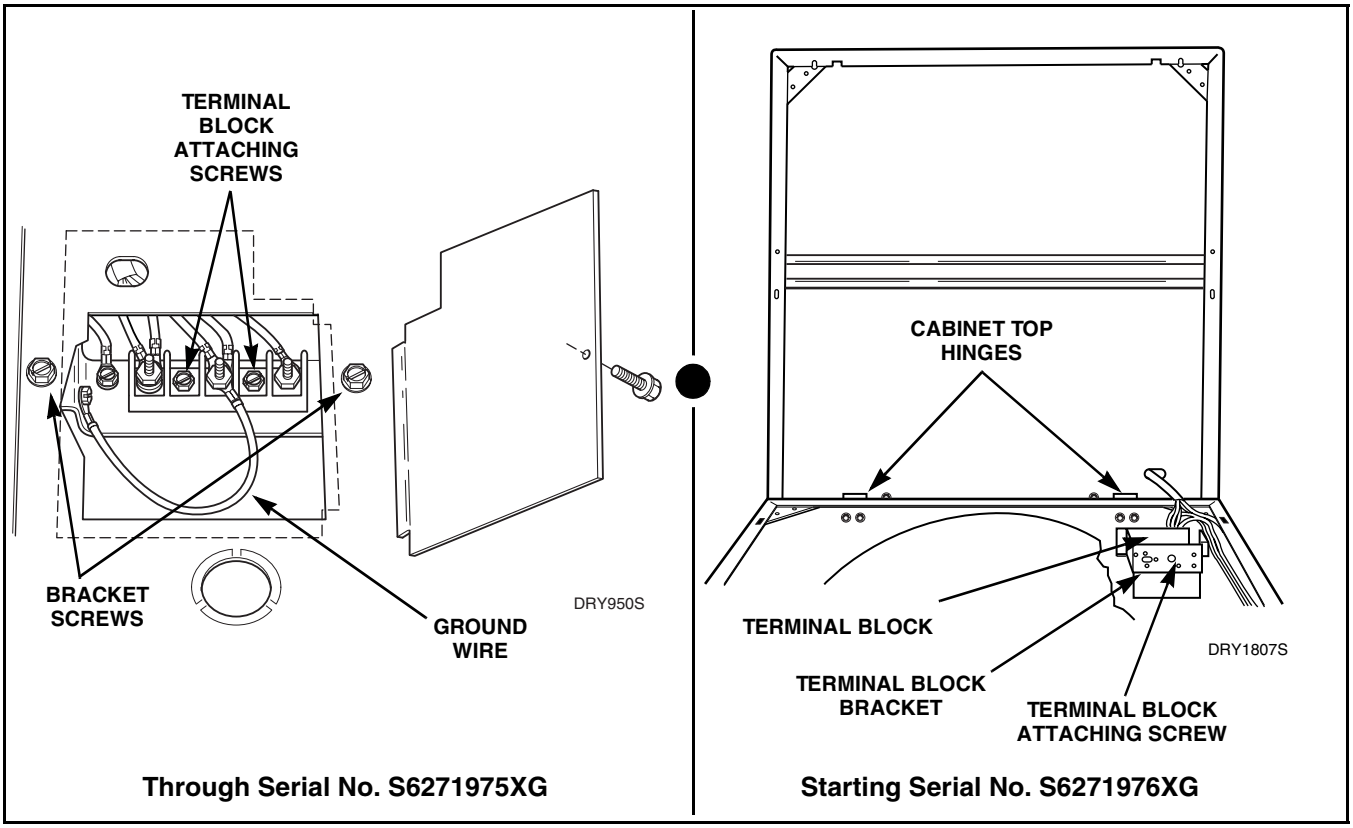

Figure 38

62. CABINET

a. On Card Reader Models, remove panel lock (if present). Refer to *Figure 7*.

NOTE: Several turns of the key may be required to remove panel lock.

b. Remove two control panel attaching screws and lift assembly off cabinet top.

c. Disconnect all wires to temperature switch, PUSH-TO-START switch and INDICATOR LIGHT and remove ground clip and screw holding ground wire to cabinet top and control panel.

NOTE: Refer to the appropriate wiring diagram when reconnecting wires.

d. **Metered Models:**

(1) Insert key in service door lock on top of meter case and unlock door. Refer to *Figure 10*.

(2) Lift rear end of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case. Refer to *Figure 10*.

NOTE: When reinstalling service door and accumulator, front end of door must be inserted at about a 45° angle in order to engage notched tabs with internal rib at top of meter case.

(3) Disconnect accumulator wires at connectors. Refer to *Figure 10*.

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

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

(4) Remove hex head ground screw holding green ground wire to accumulator mounting bracket. Refer to *Figure 10*.

(5) Remove one hex head cap screw (right rear corner) holding meter case to cabinet top. Refer to *Figure 12*.

e. **Non-metered models:**

(1) Remove four screws and lockwasher holding timer and plate to timer case. Refer to *Figure 12*.

NOTE: When reinstalling timer plate, lockwasher must be between head of screw and plate.

(2) Pull timer and plate out of timer case as far as wires will permit. Refer to *Figure 8*.

(3) Remove screw, lockwasher and locknut holding ground wires to timer. Refer to *Figure 8*.

(4) Disconnect wires from timer. Refer to *Figure 8*.

NOTE: Refer to the appropriate wiring diagram when rewiring the timer

f. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

g. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

h. Disconnect wires from door switch. Refer to *Figure 18*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

i. Remove two cabinet top hold-down screws. Refer to *Figure 14*.

j. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. Refer to *Figure 15*.

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

k. Carefully withdraw wire harness through hole in cabinet top and lift the cabinet top assembly off the hold-down brackets and set to the side. Refer to *Figure 15*.

l. Disengage belt from motor and idler pulleys. Refer to *Figure 28*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. Refer to *Figure 28*. Belt must be positioned around cylinder between center and rear baffle screws with the ribbed surface against the cylinder. After installing belt, rotate cylinder manually to check that belt is properly aligned.

m. Remove four screws holding bulkhead to front flange of cabinet. Lift complete bulkhead assembly out of slots in cabinet. Refer to *Figure 32*.

IMPORTANT: During reinstallation of front bulkhead, be sure that air duct is properly positioned with the flange inside of the felt seal on the exhaust fan cover.

n. Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.

NOTE: On models using unpainted, corrosion resistant, coated steel cylinder, the cylinder must be installed with the side marked "FRONT" or the arrow pointing toward the front of the dryer.

o. **Gas Models**

(1) Disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 19*.

(2) Remove screw from right side of burner housing, holding burner tube in place. Refer to *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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(3) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 19*.

(4) Carefully rotate burner tube and igniter **counterclockwise** so tab is at 8 o'clock position.

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

IMPORTANT: The igniter is very fragile. Be careful not to damage it during removal.

(6) Remove screw holding burner housing to heat shroud. Refer to *Figure 19*.

(7) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. Refer to *Figure 19*.

(8) Remove four screws holding shroud to heater box and remove shroud out through front of dryer. Refer to *Figure 19*.

p. **Electric Models**

(1) Remove two screws holding heater assembly to heater box, then pull heater assembly down and away from heater box. Refer to *Figure 23*.

q. Remove screw holding heat shield to dryer base. Refer to *Figure 35*.

r. Remove one screw holding rear bulkhead to terminal block bracket. While supporting bulkhead, remove five screws holding rear mounting brackets to rear of dryer cabinet and remove the assembly out of the dryer. Refer to *Figure 35*.

s. Remove screw holding bracket on exhaust duct to rear of dryer cabinet and pull duct out through rear of cabinet. Refer to *Figure 26*.

t. Remove two screws from each rear cabinet top hold-down bracket (hinges). Refer to *Figure 14*.

u. Remove screw holding access plate and remove plate. Refer to *Figure 38*.

v. Remove two screws holding terminal block bracket to cabinet. Refer to *Figure 38*.

w. Remove wire harness clips.

x. Remove guide lugs and screws.

y. Remove two screws from front edge at each side of cabinet. Refer to *Figure 32*. Then remove remaining screws from around the bottom of cabinet and lift cabinet off base.

63. BASE

a. Remove two screws from the bottom edge of the front panel. Refer to *Figure 13*.

b. Swing the bottom of the panel away from the dryer to disengage hold-down clips and guide lugs from cabinet top. Refer to *Figure 13*.

c. Disconnect wires from door switch. Refer to *Figure 18*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

d. **Gas Models**

(1) Disconnect igniter wires at disconnect blocks, sensor wires from sensor terminals, and wires from gas valve coils at the quick disconnect blocks. Refer to *Figure 19*.

(2) Close main gas shut-off valve and gas shut-off valve inside of dryer. Refer to *Figure 19*.

(3) Disconnect gas line to dryer.

(4) Remove three screws holding gas valve bracket to base and remove valve with lead-in pipe attached. Refer to *Figure 19*.

(5) Remove screw from right side of burner housing, holding burner tube in place. Refer to *Figure 23*.

(6) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. Refer to *Figure 19*.

(7) Carefully rotate burner tube and igniter **counterclockwise** so tab is at 8 o'clock position and CAREFULLY remove burner tube and igniter assembly out through front of dryer.

IMPORTANT: The igniter is very fragile. Be careful not to damage it during removal.

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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(8) Remove screw holding front of burner housing to dryer base. Refer to *Figure 23*.

(9) Remove four screws holding shroud to heater box and remove shroud and burner housing out through front of dryer. Refer to *Figure 19*.

e. **Electric Models**

(1) Remove two screws holding heater assembly to heater box, then pull heater assembly down and away from heater box. Refer to *Figure 23*.

(2) Disconnect wire harness from limit thermostat, thermal fuse and/or heating element. Refer to *Figure 23*.

f. Remove screw holding heat shield to dryer base. Refer to *Figure 35*.

g. Remove lint filter. Refer to *Figure 16*.

h. Remove screws holding air duct to front bulkhead and remove air duct. Refer to *Figure 25*.

NOTE: When reassembling, be sure felt seal on exhaust fan cover makes air tight seal on flange of air duct. Refer to *Figure 24*.

i. Disconnect wires from thermostats. Refer to *Figure 24*.

NOTE: Refer to appropriate wiring diagram when rewiring thermostats.

j. Remove cylinder belt from idler and motor pulleys. Refer to *Figure 28*.

k. Remove two screws holding motor mounting bracket to dryer base. Refer to *Figure 27*. Then pull complete assembly out through front of dryer.

l. Disconnect wires from motor switch and remove harness clip from motor bracket. Then, set motor and exhaust assembly off to the side. Refer to *Figure 30*.

m. Remove screw holding bracket on exhaust duct to rear of cabinet and pull duct out through rear of cabinet. Refer to *Figure 35*.

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 27*. Tab on rear of motor mounting bracket must be slid into slot in dryer base.

n. Remove two screws from front edge at each side of cabinet. Refer to *Figure 32*. Then remove remaining screws from around bottom of cabinet and lift cabinet off base.

o. Remove leveling legs and locknuts from base and reinstall on new base.

Section 6
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.**

W001R1

64. LEVELING LEGS
Refer to *Figure 39*

NOTE: Dryer should be installed on a solid and level floor. DO NOT install the dryer on a weak or spongy floor.

a. Place dryer in position, loosen locknuts and adjust the legs until dryer is level.

b. Keep dryer as close to the floor as possible. All four legs must rest firmly on the floor so weight of the dryer is evenly distributed. The dryer MUST NOT rock.

c. After the dryer has been leveled, tighten the locknuts securely against the bottom of the dryer base.

NOTE: If these locknuts are not tight, the dryer will not stay level during operation.

d. Place a rubber cup (supplied with dryer) under each of the leveling legs.

IMPORTANT: DO NOT move the dryer at any time unless locknuts are securely tightened and the dryer is completely assembled. DO NOT slide the dryer across the floor once the leveling legs have been extended as the legs and base could become damaged.

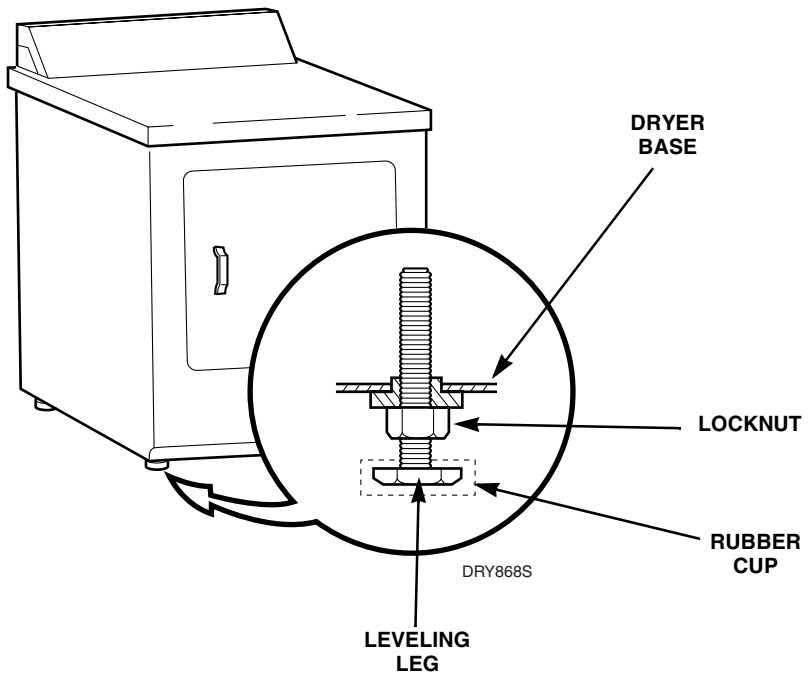


Figure 39

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

65. BURNER FLAME — Gas Models
Refer to *Figure 40*

a. Remove Phillips head screw and washer holding access door to the front panel. Refer to *Figure 42*.
b. Apply thumb pressure to the right edge of the door. When the door opens, move the door to the left to disengage from the door supports. Refer to *Figure 42*.
c. Set temperature switch at NORMAL. Place coins in slide and carefully push slide in as far as possible on metered models or set timer at "60" minutes on nonmetered models.
d. Close the loading door, start the dryer in a heat setting (refer to the Operating Instructions supplied with the dryer); the dryer will start, the igniter will glow red and the main burner will ignite.
e. Allow the dryer to operate for approximately five minutes, then open the access door and loosen the air shutter lockscrew.
f. Turn the air shutter to the right or left to obtain a soft, uniform blue flame. (A lazy, orange-tipped flame indicates lack of air. A harsh, roaring, very blue flame indicates too much air.)
g. After proper flame is obtained, tighten air shutter lockscrew securely.
h. Reinstall the access door.

WARNING

For personal safety, the access door must be in place during normal operation.

After the dryer has operated for approximately three minutes, exhaust air or exhaust pipe should be warm.

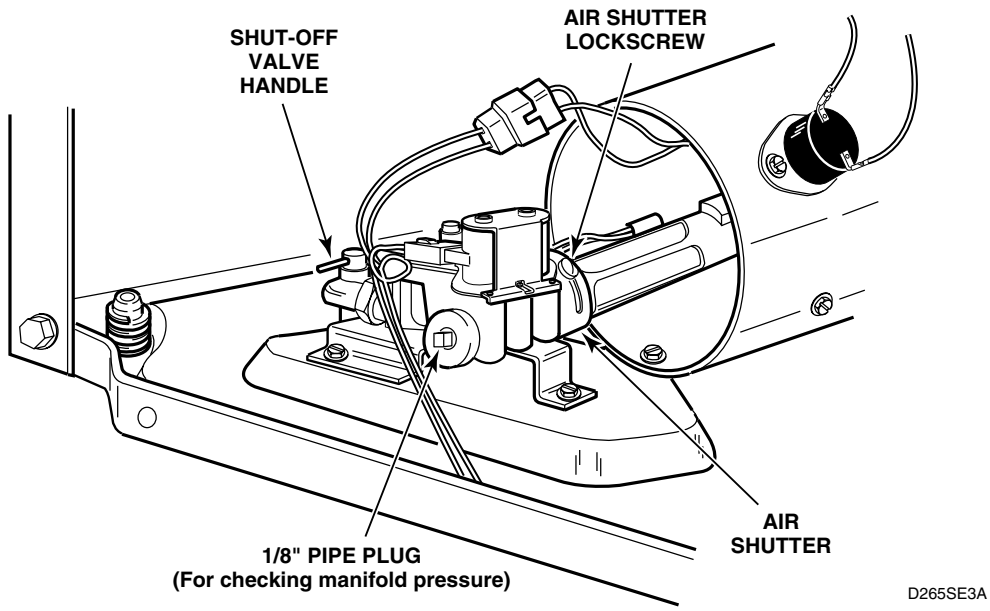


Figure 40

Section 7
Gas Burner Conversion Procedures

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

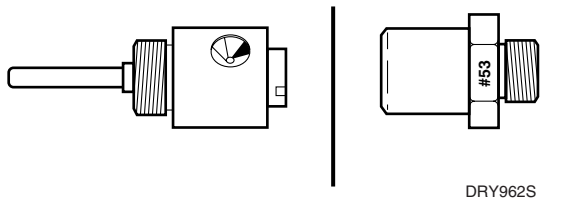
WARNING

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.

W312

458P3 L.P. Gas Conversion Kit consists of:

1	- 58754	Block - Open Plug
1	- 60418	Burner Orifice Spud (Metal stamped #53)
1	- 60513	Conversion Plate
1	- 60517	Valve Converted to L.P. Gas Sticker
2	- 60518	L.P. Gas Stickers



Gas Input - 25,000 BTU/HR

NOTE: When converting the dryer gas valve to L.P. gas, be sure the incoming gas supply line is equipped with a pressure regulator (located ahead of the dryer) that will maintain the gas supply to the dryer at 10 ± 1.5 inches (25.4 ± 3.81 cm) water column pressure and a vent to the outdoors must be provided. Remove pressure tap pipe plug and check gas pressure by connecting a "U" tube manometer (or similar pressure gauge) to the pressure tap. Refer to *Figure 41*.

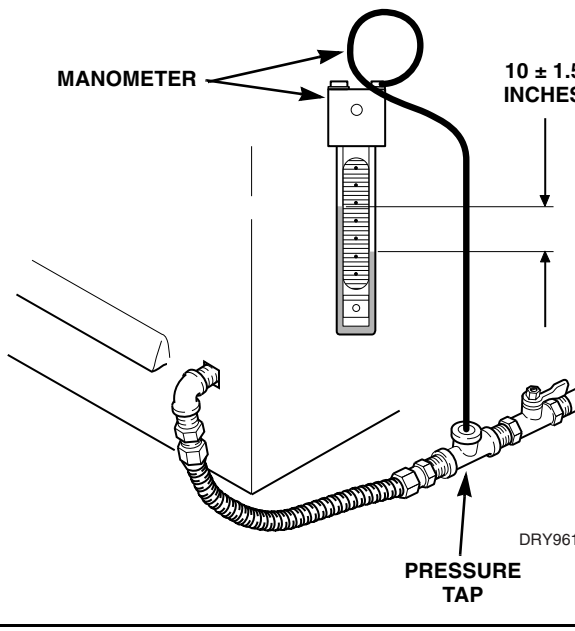


Figure 41

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

66. INSTALLING THE NO. 458P3 KIT

WARNING

To reduce the risk of electrical shock, disconnect electrical power to the dryer before servicing the dryer.

a. Remove Phillips head screw (if present), then apply thumb pressure to the right side of access door. Refer to *Figure 42*. When door opens, move door to the left to disengage from door supports.

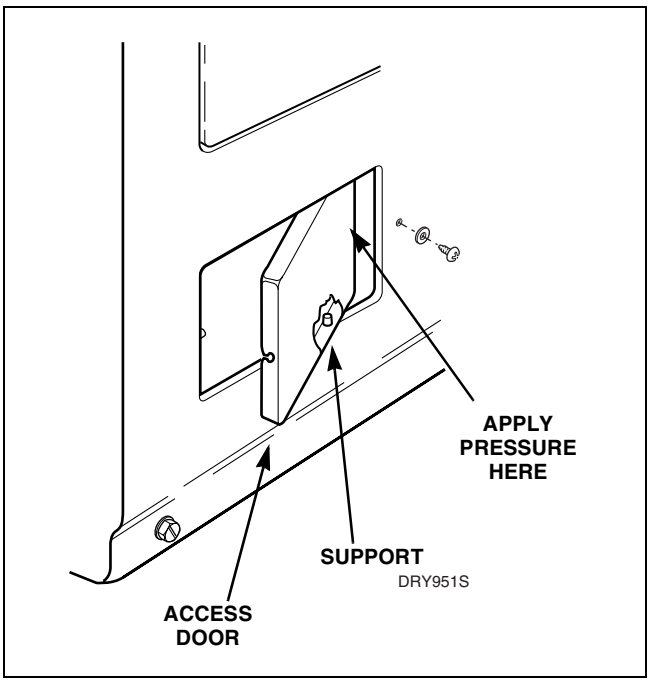


Figure 42

WARNING

To reduce the risk of fire and explosion, reach in through access door opening and turn the gas line shut-off valve handle to the closed position. *Figure 43*.

b. Disconnect igniter wires at quick disconnect blocks. Refer to *Figure 43*.
c. Remove hex head screw holding burner tube and igniter in place. Refer to *Figure 43*.
d. Carefully move burner tube toward rear of dryer, far enough to permit removal of burner orifice spud from gas valve.

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

e. Turn burner orifice spud out of gas valve and install No. 60418 L.P. Burner Orifice Spud (metal stamped #53). Torque new burner orifice spud to 30 inch-pounds (3.4 N-m).
f. Reinstall burner tube, tighten hex head screw firmly and reconnect igniter leads.
g. Remove vent screw and install No. 58754 Block-Open Plug. Refer to *Figure 43*.
h. Install No. 60517 “Valve Converted to L.P. Gas” Sticker to top side of gas valve so it covers the gas valve part number. Refer to *Figure 43*.
i. Sign and date each of the two No. 60518 L.P. Gas Stickers. Install one of the No. 60518 L.P. Gas Stickers over the top three lines of the old sticker on rear of cabinet. Refer to *Figure 44*. Then place the second sticker over the top three lines of the old sticker located on backside of access door. Refer to *Figure 42*.
j. Apply the No. 60513 Conversion Plate to the inside of the loading door opening above the nameplate. Refer to *Figure 45*.
k. Turn the gas line shut-off valve handle to the open position and connect electrical service. Refer to *Figure 43*.

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

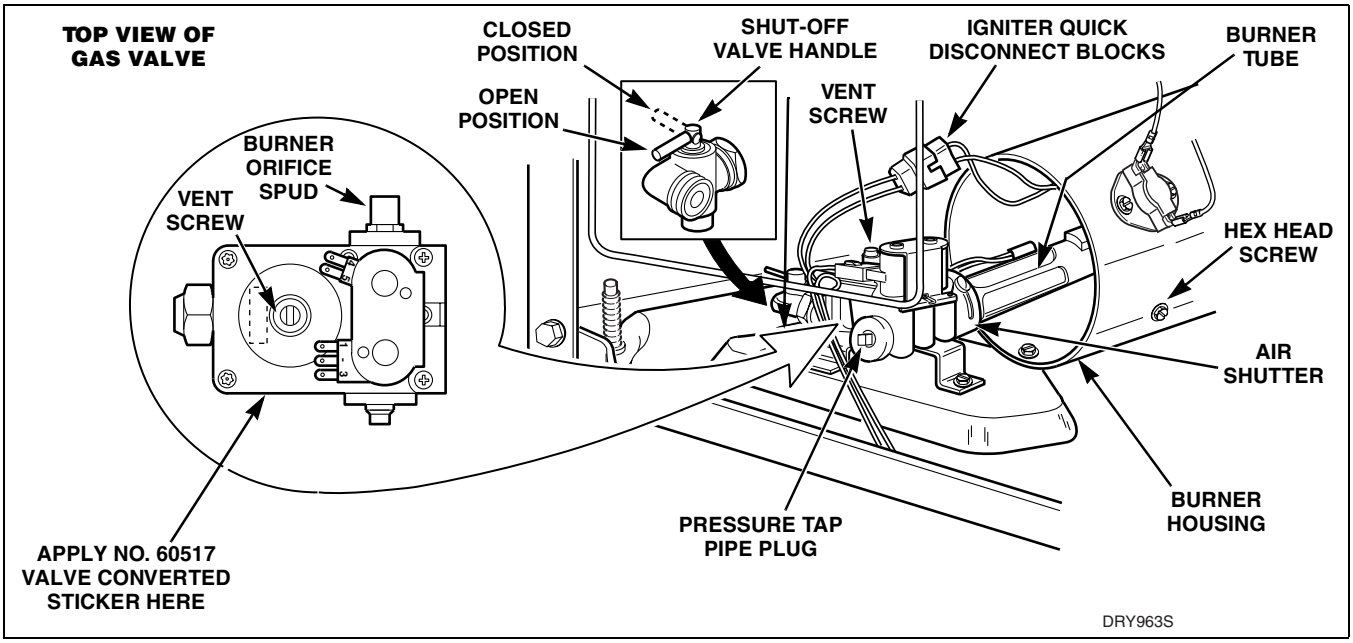


Figure 43

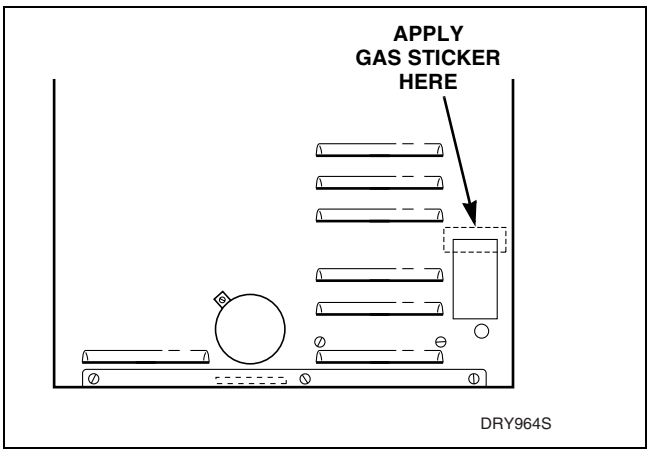


Figure 44

l. Check gas valve pressure as follows:
   (1) Remove pressure tap pipe plug. Refer to *Figure 43.*
   (2) Connect a "U" tube manometer (or similar pressure gauge) to the pressure tap. Refer to *Figure 46.*
   (3) Start dryer, pressure should be 10 ± 1.5 inches (25.4, ± 3.8 cm). Refer to *Figure 46.*
   (4) Stop dryer and remove "U" tube and reinstall the pressure tap pipe plug. Refer to *Figure 43.*

m. Check the gas line connection for gas leaks with a soapy solution.

DANGER

To reduce the risk of an explosion or fire, do not use an open flame to check for gas leaks!

n. Make sure the dryer conversion has been completed. Recheck the following:
   (1) Installed correct orifice spud (#53), see step "e".
   (2) Installed block-open plug, see step "g".
   (3) Gas valve pressure must be 10 ± 1.5 inches (25.4 ± 3.8 cm), see step "l".

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

(4) Installed four stickers, see steps “h”, “i”, and “j”.

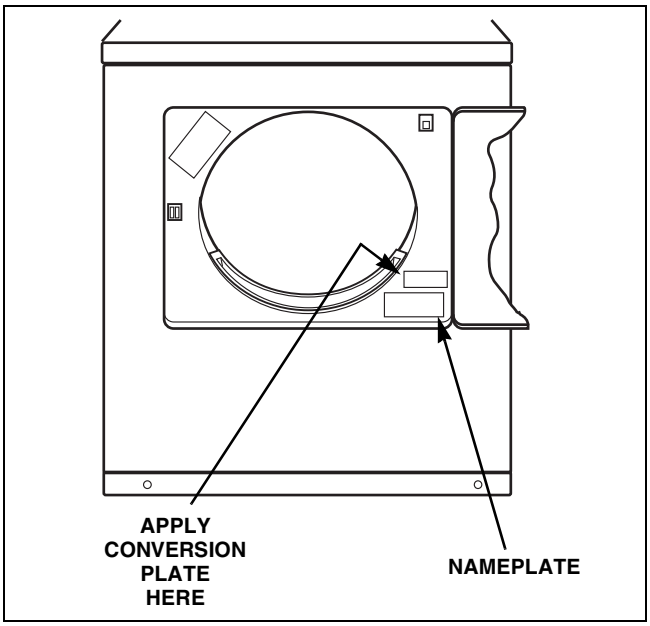


Figure 45

o. 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:
   (1) Loosen air shutter lockscrew. Refer to *Figure 46.*
   (2) Turn air shutter to the right or left as necessary to obtain proper flame intensity. Refer to *Figure 46.*
   (3) After air shutter is adjusted for proper flame, tighten air shutter lockscrew firmly.

p. **Be sure and observe** at least two complete ignition and burn cycles before reinstalling access door.

q. Reinstall the access door and screw.

WARNING

For personal safety, access door must be in place during normal operation.

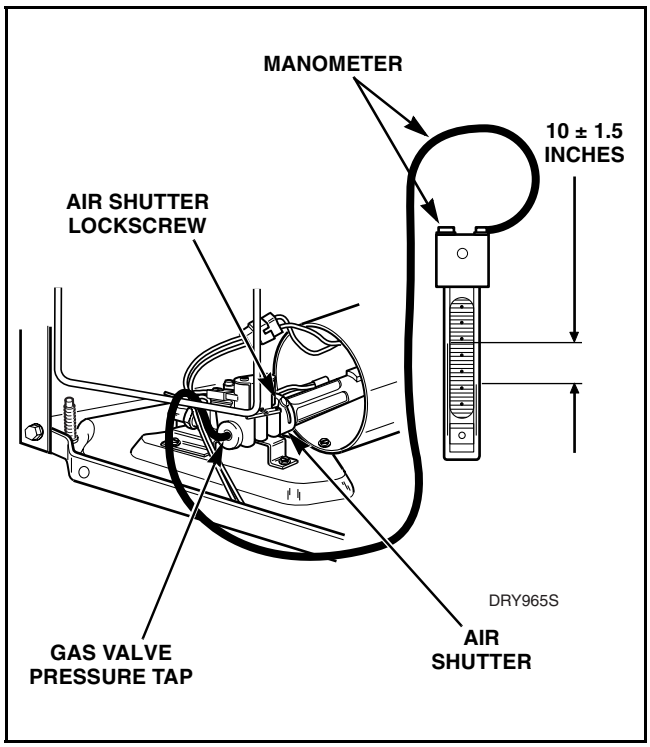


Figure 46

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

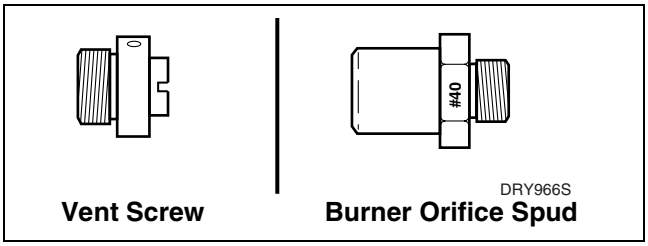
WARNING

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.

W312

459P3 Natural Gas Conversion Kit consists of:

1	- 58768	Vent Screw
1	- 60417	Burner Orifice Spud (#40)
1	- 60512	Conversion Plate
1	- 60516	Valve Converted to Natural Gas Sticker
2	- 60519	Natural Gas Stickers



Gas Input - 25,000 BTU/HR

NOTE: When converting the dryer gas valve to Natural Gas, be sure the incoming gas supply line is equipped with a pressure regulator (located ahead of the dryer) that will maintain the gas supply to the dryer at 6.5 ± 1.5 inches (16.5 ± 3.81 cm) water column pressure and a vent to the outdoors must be provided. Remove pressure tap pipe plug and check gas pressure by connecting a "U" tube manometer (or similar pressure gauge) to the pressure tap. Refer to *Figure 47.*

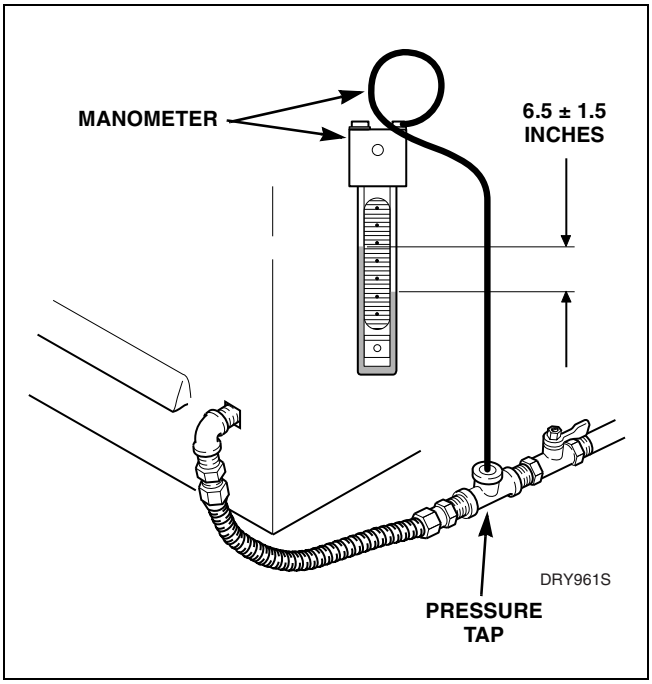


Figure 47

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

67. INSTALLING THE NO. 459P3 KIT

WARNING

To reduce the risk of electrical shock, disconnect electrical power to the dryer before servicing the dryer.

a. Remove Phillips head screw (if present), then apply thumb pressure to the right side of access door. Refer to *Figure 42*. When door opens, move door to the left to disengage from door supports.

WARNING

To reduce the risk of fire and explosion, reach in through access door opening and turn the gas line shut-off valve handle to the closed position. *Figure 43*.

b. Disconnect igniter wires at quick disconnect blocks. Refer to *Figure 48*.
c. Remove hex head screw holding burner tube and igniter in place. Refer to *Figure 48*.
d. Carefully move burner tube toward rear of dryer, far enough to permit removal of burner orifice spud from gas valve.

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

e. Turn burner orifice spud out of gas valve and install No. 60417 Natural Gas Burner Orifice Spud (metal stamped #40). Torque new burner orifice spud to 30 inch-pounds (3.4 N-m).
f. Reinstall burner tube, tighten hex head screw firmly and reconnect igniter leads.
g. Remove the block open plug and install No. 58768 Vent Screw. Refer to *Figure 48*.

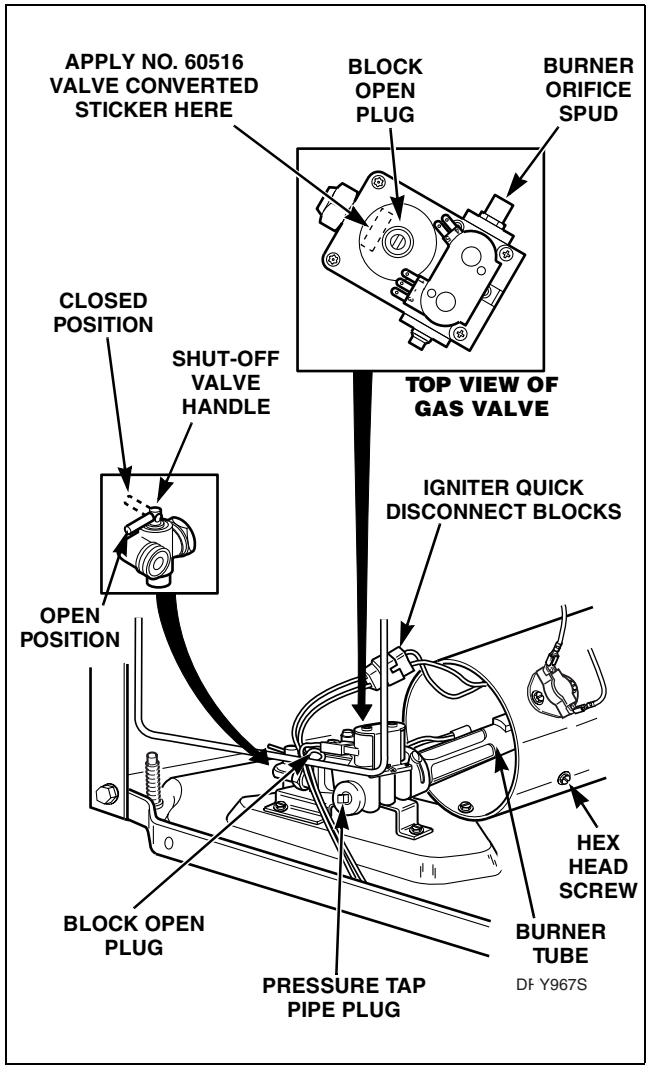


Figure 48

h. Install No. 60516 “Valve Converted to Natural Gas” Sticker to top side of gas valve so it covers the gas valve part number. Refer to *Figure 48*.
i. Sign and date each of the two No. 60521 Natural Gas Stickers. Install one of the No. 60519 Natural Gas Stickers over the top three lines of the old sticker on rear of cabinet. Refer to *Figure 44*. Then place the second sticker over the top three lines of the old sticker located on backside of access door. Refer to *Figure 42*.

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

j. Apply the No. 60512 Conversion Plate to the inside of the loading door opening above the nameplate. Refer to *Figure 45*.

k. Turn the gas line shut-off valve handle to the open position and connect electrical service. Refer to *Figure 48*.

l. Check gas valve pressure as follows:
   (1) Remove pressure tap pipe plug. Refer to *Figure 48*.
   (2) Connect a "U" tube manometer (or similar pressure gauge) to the pressure tap. Refer to *Figure 49*.
   (3) Start dryer, pressure should be 3.5 ± .2 inches (8.89 ± .508 cm). Refer to *Figure 49*.
   (4) Stop dryer and remove "U" tube and reinstall the pressure tap pipe plug. Refer to *Figure 48*.

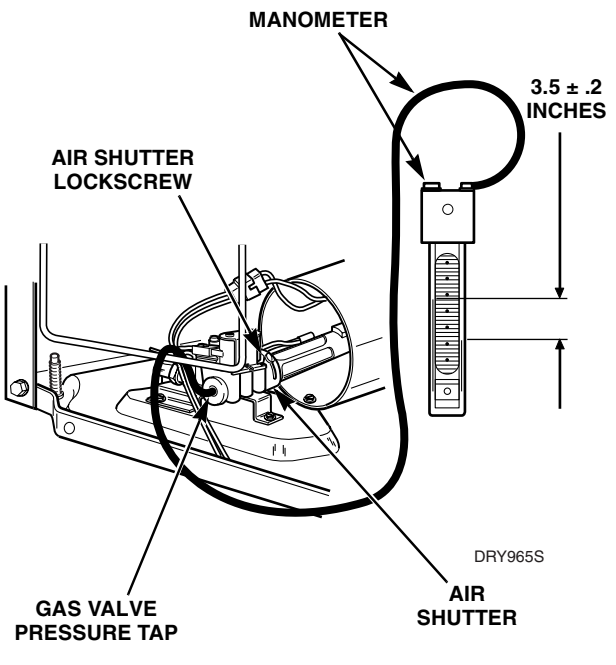


Figure 49

m. Check the gas line connection for gas leaks with a soapy solution.

DANGER

To reduce the risk of an explosion or fire, do not use an open flame to check for gas leaks!

n. Make sure the dryer conversion has been completed. Recheck the following:
   (1) Installed correct orifice spud (#40), see step "e".
   (2) Installed the vent screw, see step "g".
   (3) Gas valve pressure must be 3.5 ± .2 inches (8.89 ± .508 cm), see step "l".
   (4) Installed four stickers, see steps "h", "i", and "j".

o. 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:
   (1) Loosen air shutter lockscrew. Refer to *Figure 49*.
   (2) Turn air shutter to the right or left as necessary to obtain proper flame intensity. Refer to *Figure 49*.
   (3) After air shutter is adjusted for proper flame, tighten air shutter lockscrew firmly.

p. **Be sure and observe** at least two complete ignition and burn cycles before reinstalling access door.

q. Reinstall the access door and screw.

WARNING

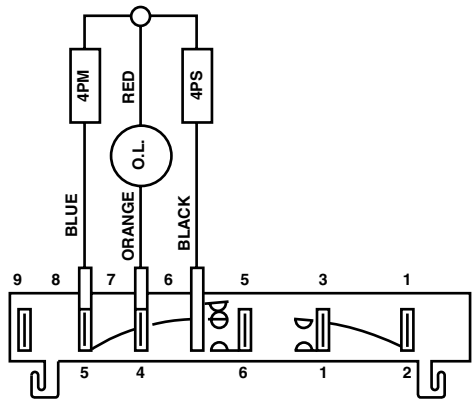
For personal safety, access door must be in place during normal operation.

Section 8
Internal Wiring of Dryer Motor Switch

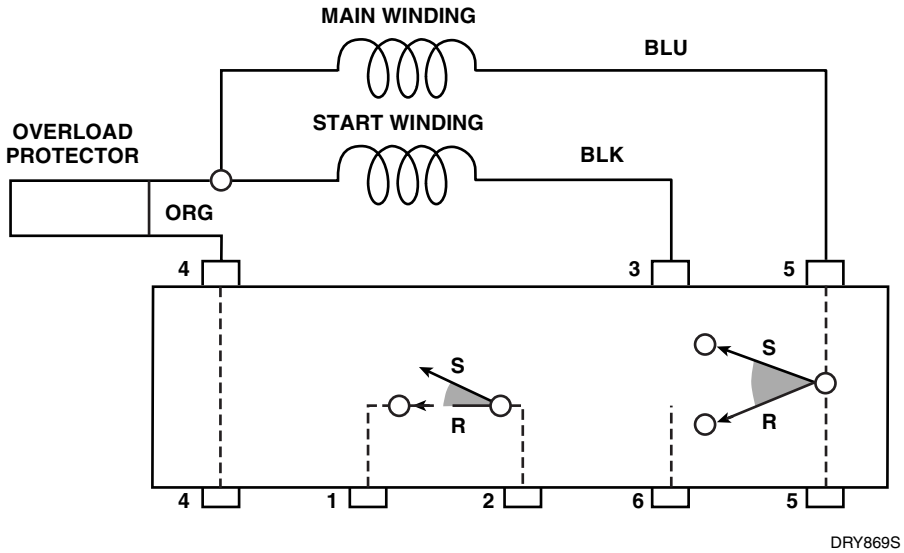
WARNING

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



GENERAL ELECTRIC MOTOR WITH INTERNAL SWITCH



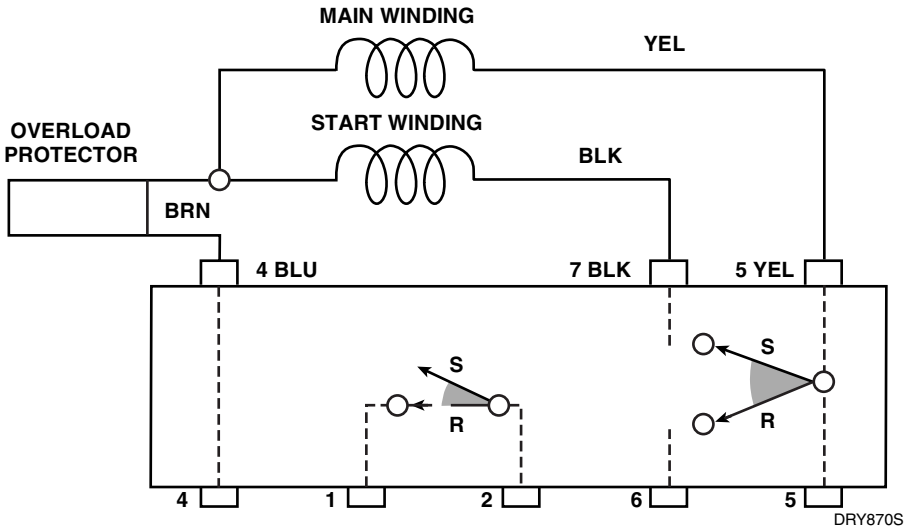
GENERAL ELECTRIC MOTOR WITH EXTERNAL SWITCH

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



EMERSON MOTOR WITH EXTERNAL SWITCH