

# **Service Manual for Commercial Dryers**

**See *Page 2* for Model Numbers**

**RSPC  
Shepard Street  
Box 990  
Ripon, Wisconsin 54971-0990**

**Part No. 503292  
7/95**

**⚠ WARNING**

**Failure to install, maintain, and/or operate this machine 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 the Parts and Service Manual 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.**

W006

**⚠ 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

**⚠ CAUTION**

**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. It must be understood that common sense, caution and carefulness are factors which CANNOT be built into these products. These factors MUST BE supplied by the person(s) installing, maintaining or operating the product.**

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

**Recognize Safety Symbols, Words and Labels**

**⚠ DANGER** — Immediate hazards which WILL result in serious injury or death.

**⚠ DANGER**

**⚠ WARNING** — Hazards or unsafe practices which COULD result in serious injury or death.

**⚠ WARNING**

**⚠ CAUTION** — Hazards or unsafe practices which COULD result in minor or moderate injury or product or property damage.

**⚠ CAUTION**

W009

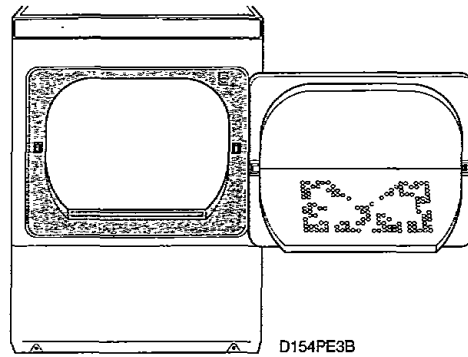
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## Nameplate location

### IMPORTANT

When writing for information on any dryer, be sure to mention model and serial numbers. The model and serial numbers will be found on the nameplate in one of the four corners of the door well. The door well is the shaded area shown.



Information in this manual is applicable to these dryer models.

Model Numbers	Nonmetered Models	Metered Models	Electric Heat	Gas Heat
DDE007	X		X	
DDG009	X			X
ZE2107		X	X	
ZG2109		X		X
ZE2007	X		X	
ZG2009	X			X

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# SECTION I

## Grounding

### ⚠WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

#### 1. MOTOR MOUNTING BRACKET TO MOTOR (Gas and Electric Models — Figure 1).

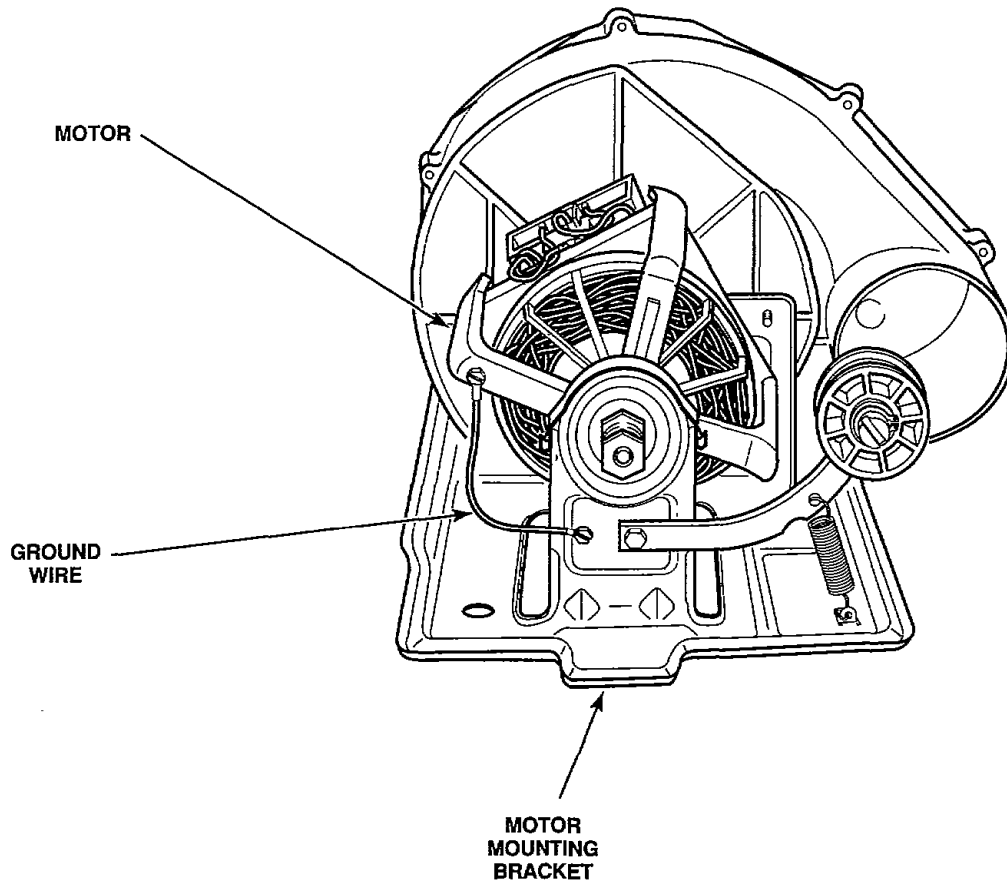


Figure 1

## **⚠ WARNING**

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

2. NEUTRAL AT TERMINAL BLOCK TO REAR BULKHEAD AND FROM REAR BULKHEAD TO CONTROL HOUSING (Electric Models Only — *Figure 2*).

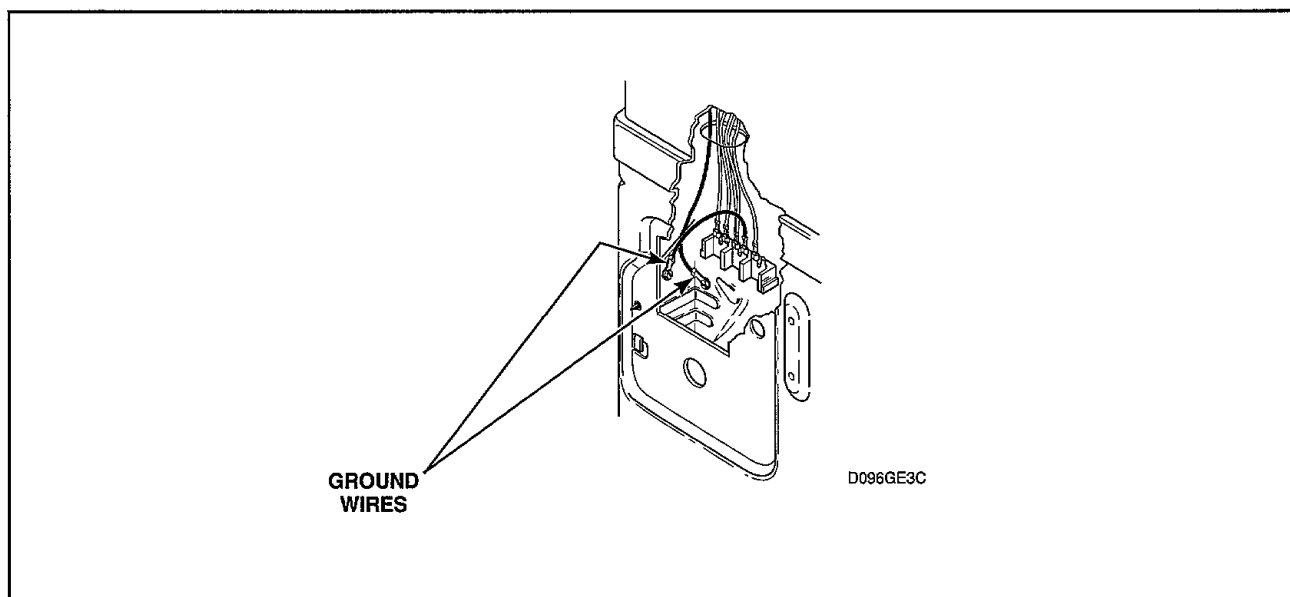


Figure 2

3. POWER CORD TO REAR BULKHEAD AND FROM REAR BULKHEAD TO CONTROL HOUSING. WALL RECEPTACLE POLARITY CHECK (Gas Models Only — *Figure 3*).

**NOTE:** For determining the correct polarity of a wall receptacle.

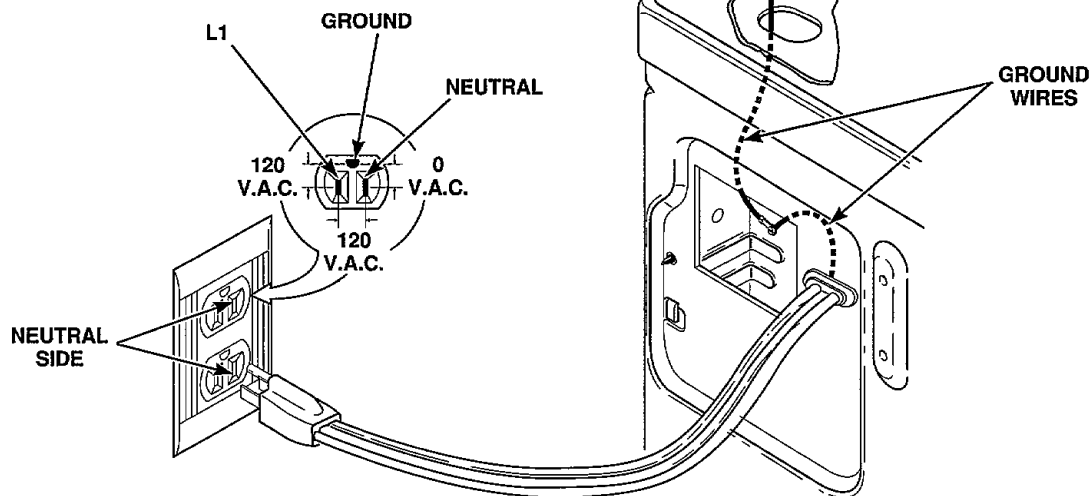


Figure 3

# **⚠WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

WC01

## **4. METERED AND NONMETERED MODELS — FROM REAR BULKHEAD TO ACCUMULATOR BRACKET OR TIMER (Depending on model) AND FROM CABINET TOP TO CONTROL PANEL.**

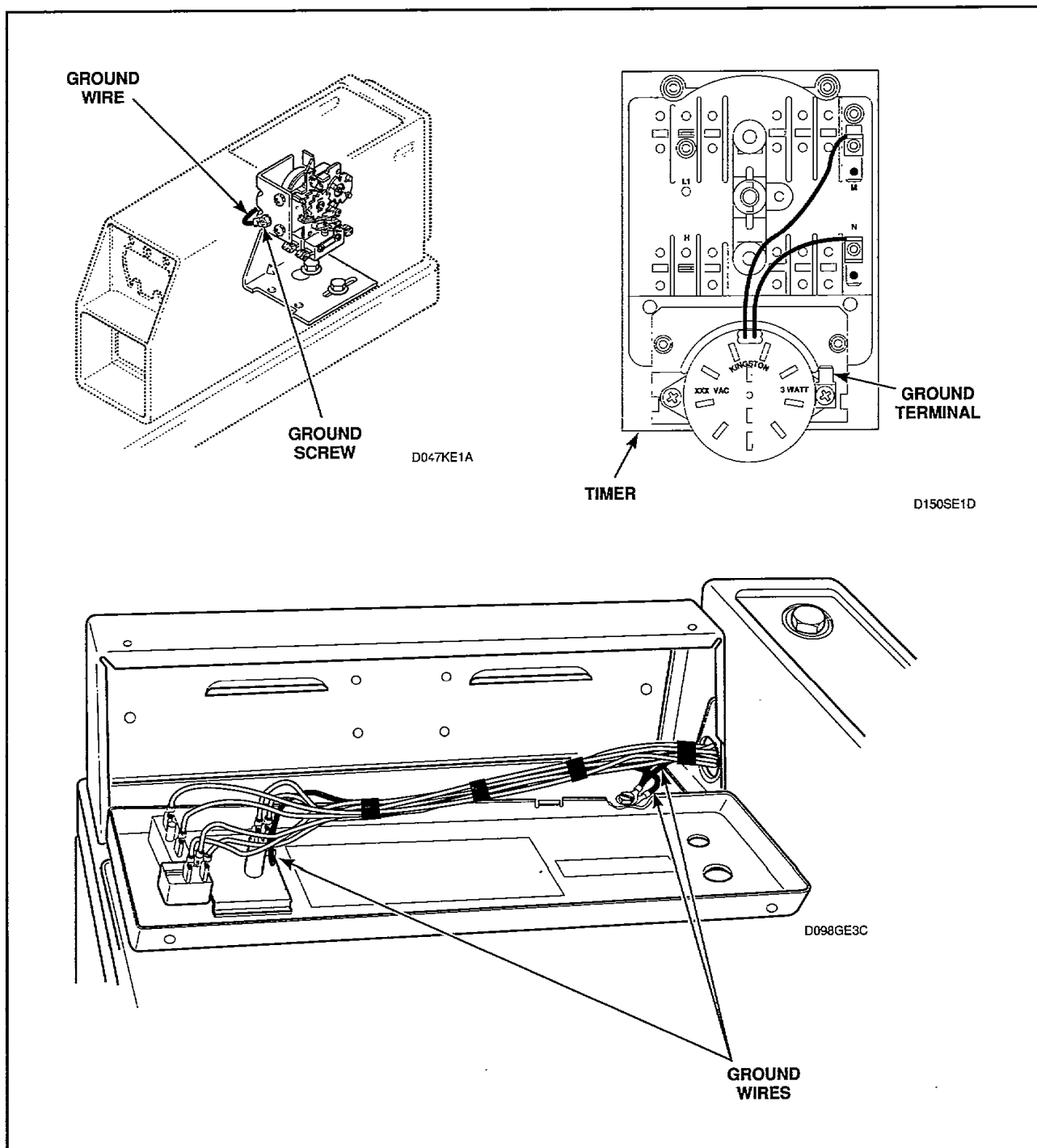


Figure 4

# SECTION II

## Service Procedures

**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.

### **▲WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

#### **5. CONTROL PANEL, TEMPERATURE SWITCH, PUSH-TO-START SWITCH AND INDICATOR LIGHT (Figure 5)**

- a. Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top.
- 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.

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

- c. Loosen setscrew holding temperature switch knob to shaft and pull knob off shaft.
- d. Remove knurled nut holding temperature switch to panel and remove switch.
- e. Remove hex nut from PUSH-TO-START switch and remove switch.
- f. Squeeze locking tabs on INDICATOR LIGHT and pull light out from back of panel.



## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### 6. GRAPHICS PANEL (Figure 5)

- Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top.
- Remove knurled nut holding temperature selector switch to panel.
- Remove hex nut from PUSH-TO-START switch.
- Remove graphic panel.

### 7. TIMER (Nonmetered Models)

- Refer to *Figure 6* for timer removal.
- Loosen setscrew holding timer knob to timer shaft and remove knob.
- Remove four screws holding timer and plate to timer case.

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

- Pull timer and plate out of timer case as far as wires will permit.
- Remove ground wire from ground terminal on timer, *Figure 4*.
- Disconnect wires from timer.

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

- Remove two screws holding timer to plate, *Figure 6*.

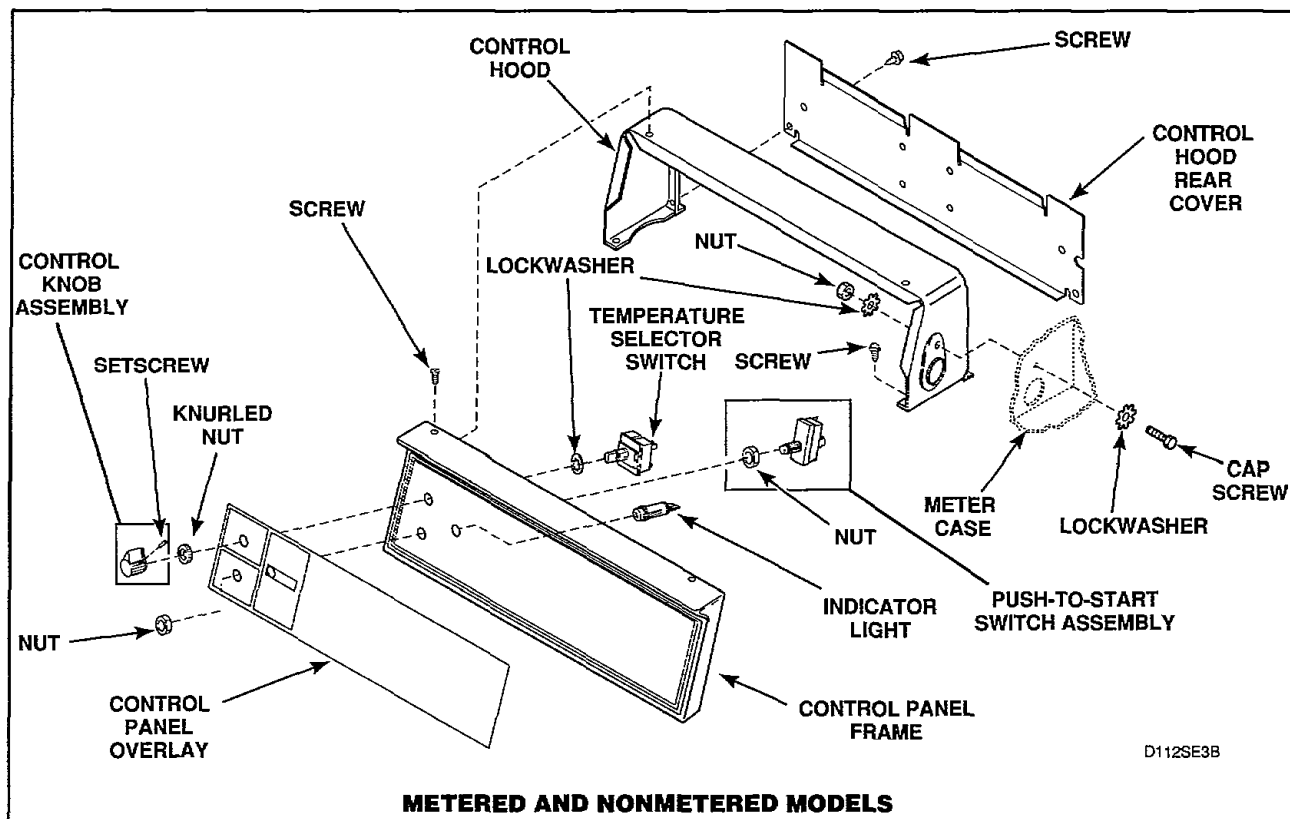
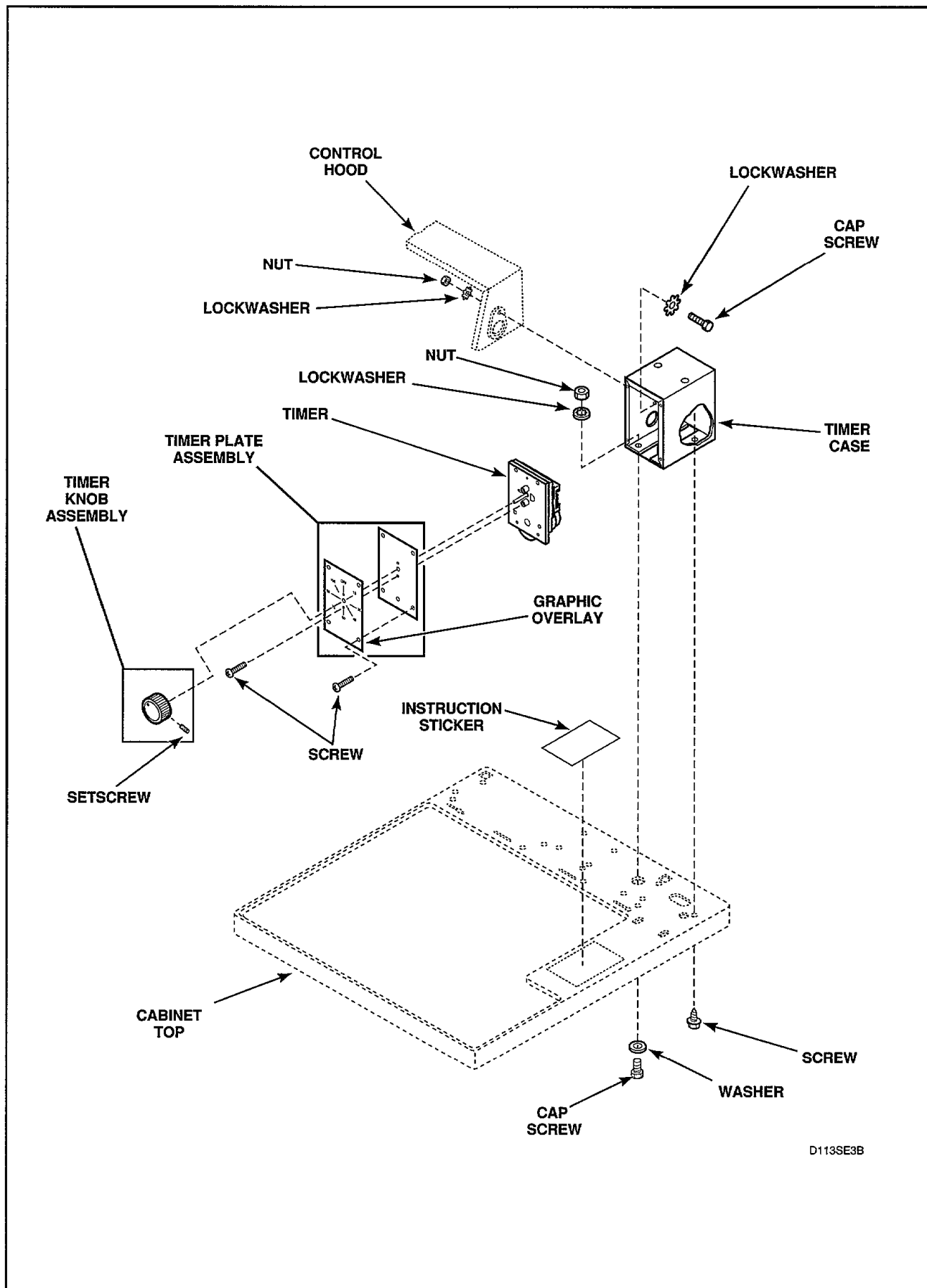


Figure 5



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Figure 6

## **▲WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **8. CONTROL HOOD**

- a. Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top, *Figure 5*.
- 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, *Figure 4*. (Refer to appropriate wiring diagram when reconnecting wires.)

#### **c. Metered models: (Refer to *Figure 7*)**

- (1) Insert key in service door lock on top of meter case and unlock door.
- (2) Lift rear 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, 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.**

#### **Nonmetered models: (Refer to *Figure 6*)**

- (1) Remove four screws holding timer and plate to timer case.
  - (2) Pull timer and plate out of timer case as far as wires will permit.
- d. Remove cap screw holding control hood to meter case, *Figure 5*.
  - e. Remove two screws holding control hood to cabinet top and lift hood off rear tabs, *Figure 5*.

### **9. CONTROL HOOD REAR COVER**

Refer to *Figure 5* for removal.

### **10. ACCUMULATOR (*Figure 7*)**

- a. Insert key in service door lock on top of meter case and unlock door.
- b. Lift rear 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, 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. Remove right mounting screw and slide accumulator bracket back. Once left mounting screw is over the keyhole opening, pull accumulator bracket up and out of meter case.

**NOTE: When reinstalling accumulator bracket, push it completely forward before replacing the right mounting screw.**

- d. Disconnect accumulator wires at connectors.

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

- e. Remove ground screw holding green ground wire to accumulator mounting bracket.
- f. Remove two screws and lockwashers holding accumulator to mounting bracket.

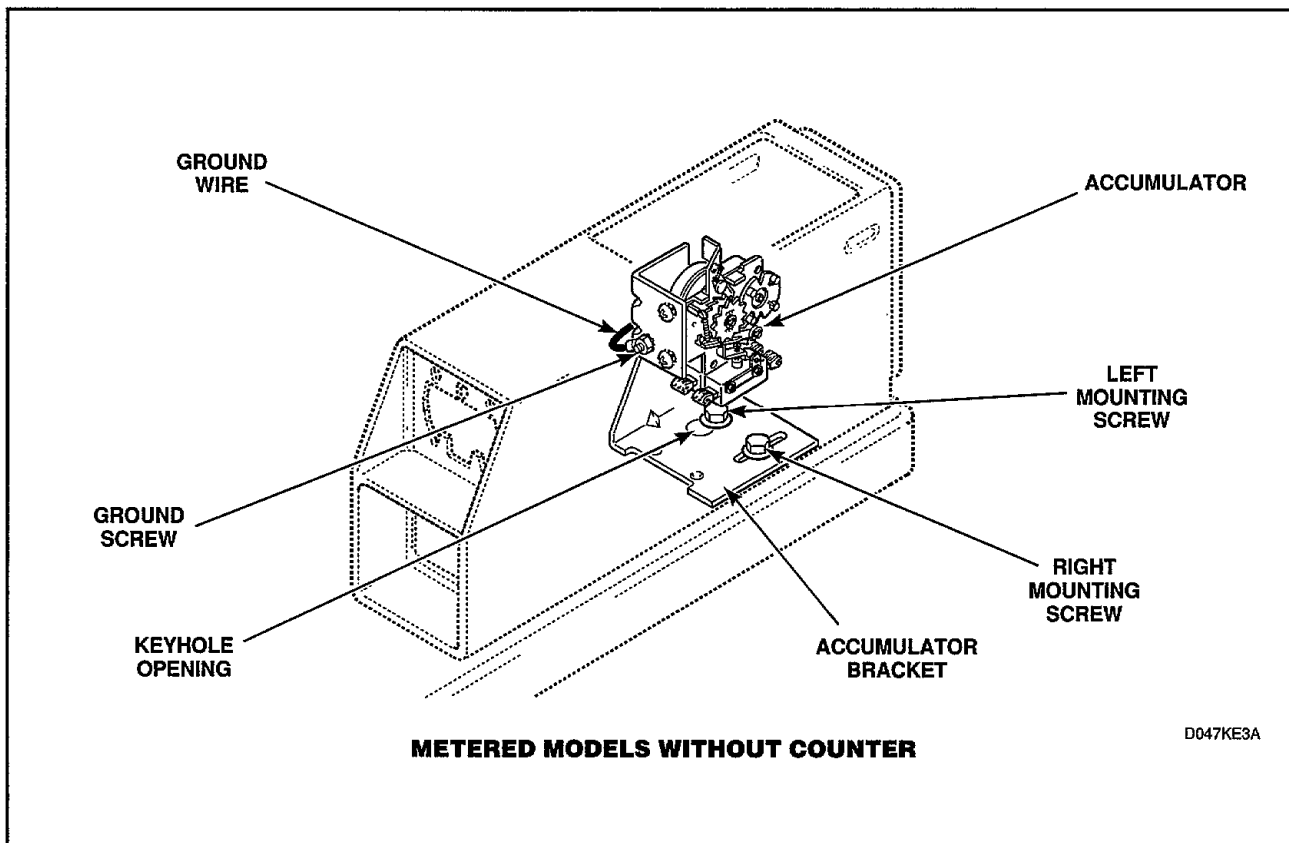


Figure 7

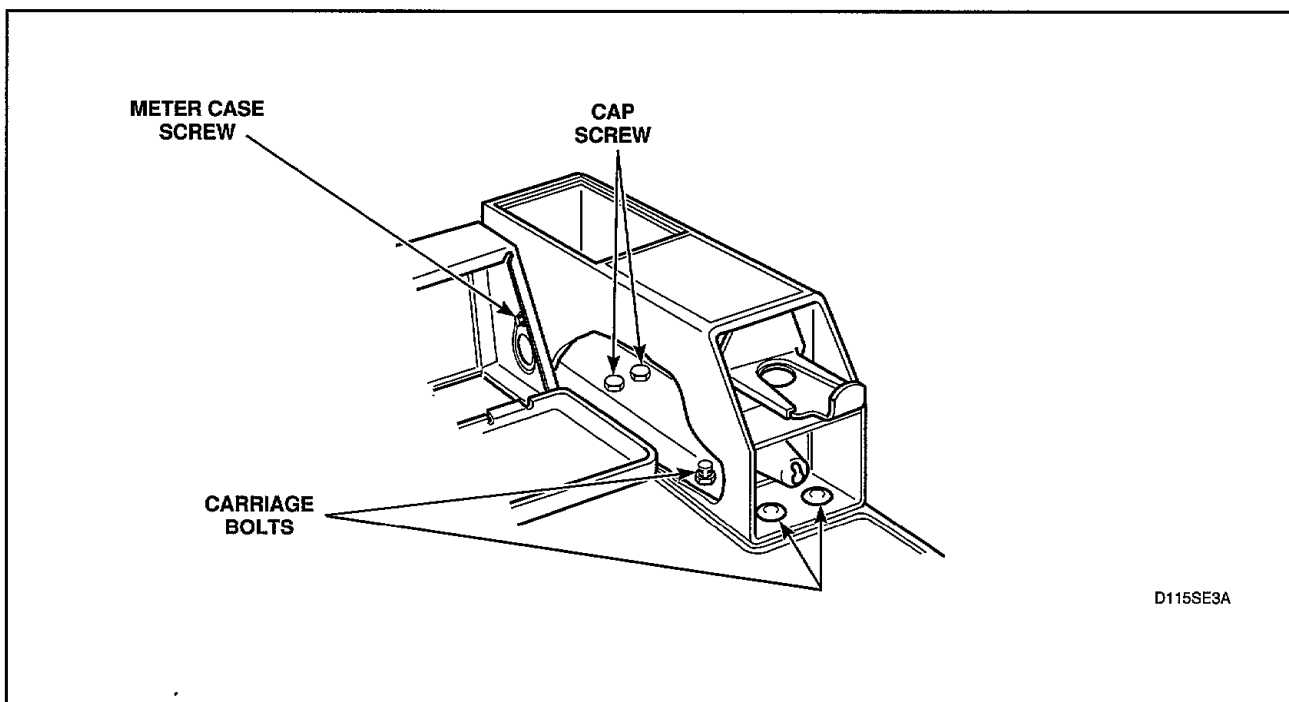


Figure 8

## ⚠WARNING

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### 11. METER CASE (Metered Models)

- Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top, *Figure 5*.
- Disconnect all wires to components, and remove ground clip and screw holding ground wire to cabinet top and control panel, *Figure 4*.

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

- Insert key in service door lock on top of meter case and unlock door, *Figure 7*.
- Lift rear of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case, *Figure 7*.

**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.**

- Disconnect accumulator wires at connectors, *Figure 7*.

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

- Remove ground screw holding green ground wire to accumulator mounting bracket, *Figure 7*.
- Remove two cap screws holding meter case to cabinet top, *Figure 8*.
- Remove nut, lockwasher and screw holding meter case to right end of control hood, *Figure 8*.
- While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Remove two screws holding bottom tabs on front panel to dryer cabinet. Swing front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top, *Figure 10*.

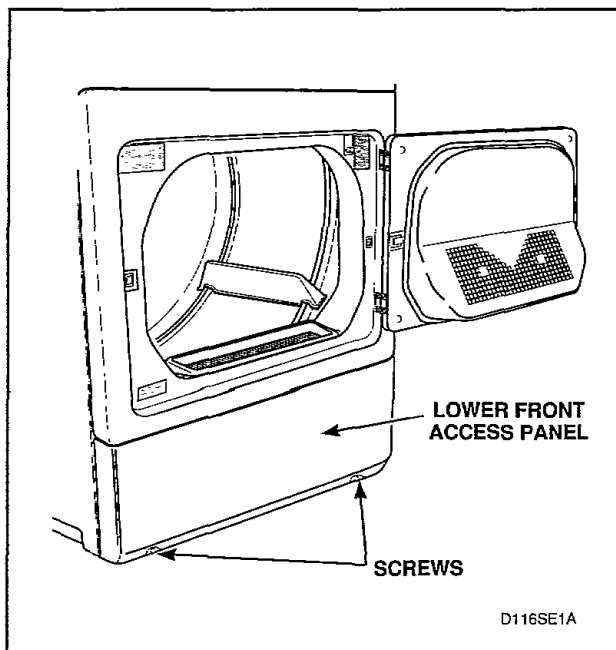


Figure 9

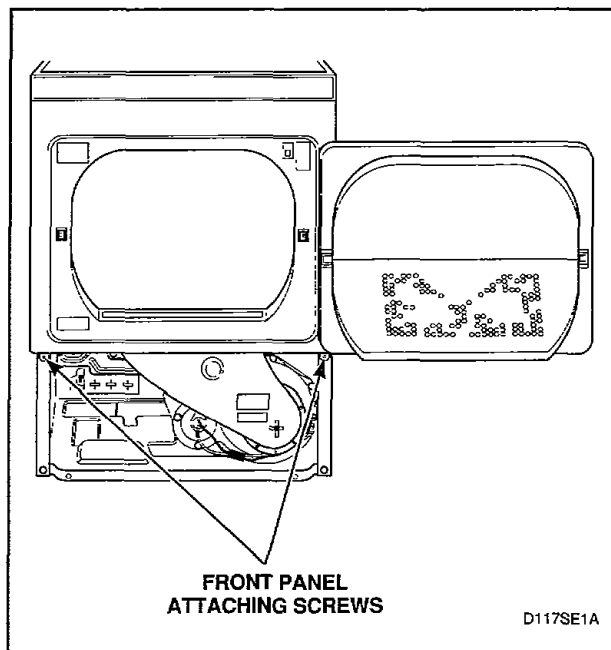


Figure 10

(continued)

## ▲WARNING

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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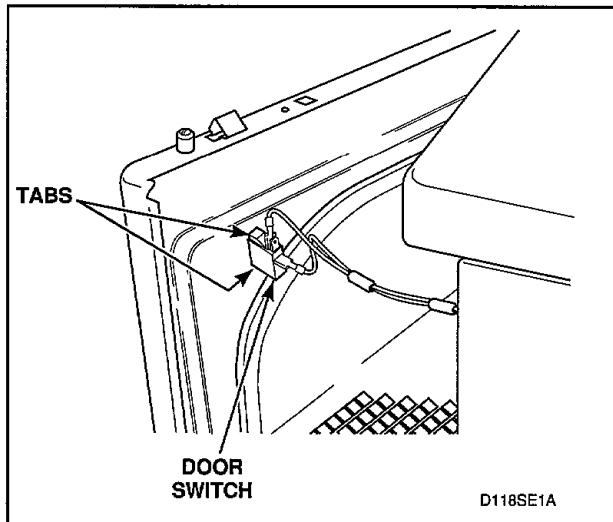


Figure 11

- l. Disconnect wires from door switch, *Figure 11*.

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

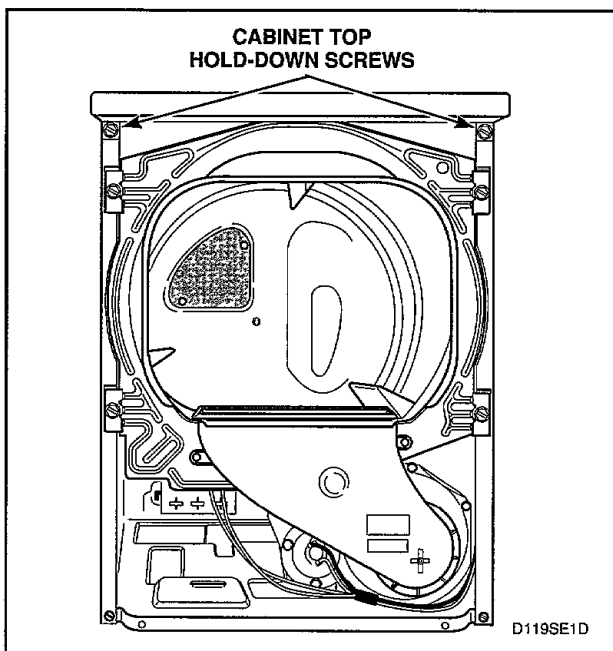


Figure 12

- m. Remove two cabinet top hold-down screws, *Figure 12*.  
n. Lift cabinet top to a vertical position by hinging it on the rear hinges, *Figure 13*.

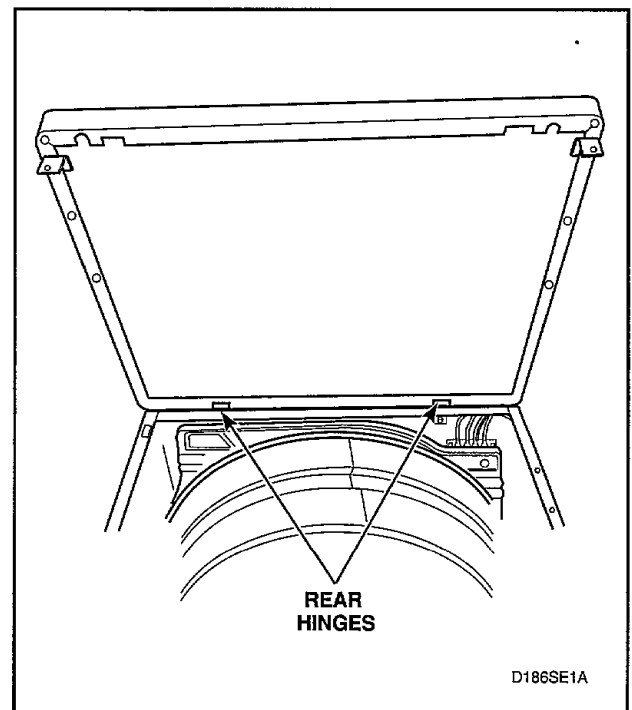


Figure 13

**NOTE:** While servicing, cabinet top may be raised and hinged on the rear hinges or supported against wall behind dryer.

- o. Carefully withdraw the wire harness through hole in cabinet top and lift the entire cabinet top assembly off the rear hinges, *Figure 13*.  
p. Lay the cabinet top assembly flat, remove carriage bolts, washers, bracket, gasket and nuts holding meter case to cabinet top and remove meter case, *Figure 8*.

## **▲WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **12. TIMER CASE (Nonmetered Models)**

- a. Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top, *Figure 5*.
- b. Disconnect all wires from components and remove ground clip and screw holding ground wire to cabinet top and control panel, *Figure 4*.

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

- c. Remove four screws holding timer and plate to timer case, *Figure 6*.
- d. Pull timer and plate out of timer case as far as wires will permit, *Figure 6*.
- e. Remove ground wire from ground terminal on timer, *Figure 4*.
- f. Disconnect wires from timer, *Figure 6*.

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

- g. Remove cap screw, lockwashers and nut holding timer case to control hood, *Figure 6*.
- h. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 9*.
- i. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- j. Remove two screws holding bottom tabs on front panel to dryer cabinet. Swing front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top, *Figure 10*.
- k. Disconnect wires from door switch, *Figure 11*.

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

- l. Remove two cabinet top hold-down screws, *Figure 12*.
- m. Lift cabinet top to a vertical position by hinging it on the rear hinges, *Figure 13*.

**NOTE: While servicing, cabinet top may be raised and hinged on the rear hinges or supported against wall behind dryer.**

- n. Carefully withdraw wire harness through hole in cabinet top and lift the entire cabinet top assembly off the rear hinges, *Figure 13*.
- o. Lay the cabinet top assembly flat and remove two carriage bolts, washers, lockwashers and nuts holding front of timer case to cabinet top, *Figure 6*.
- p. Remove screw holding rear of case to cabinet top and remove case, *Figure 6*.

## **▲WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **13. CABINET TOP (Nonmetered Models)**

- Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top, *Figure 5*.
- 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, *Figure 4*.

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

- Remove four screws holding timer and plate to timer case, *Figure 6*.
- Pull timer and plate out of timer case as far as wires will permit, *Figure 6*.
- Remove ground wire from ground terminal on timer, *Figure 4*.
- Disconnect wires from timer.

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

- Remove cap screw, lockwashers and nut holding timer case to control hood, *Figure 6*.
- Remove two screws holding control hood to cabinet top and lift hood off rear tabs, *Figure 6*.
- While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.

- Remove two screws holding bottom tabs on front panel to dryer cabinet. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top, *Figure 10*.
- Disconnect wires from door switch, *Figure 11*.

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

- Remove two cabinet top hold-down screws, *Figure 12*.
- Lift cabinet top to a vertical position by hinging it on the rear hinges, *Figure 13*.

**NOTE: While servicing, cabinet top may be raised and hinged on the rear hinges or supported against wall behind dryer.**

- Carefully withdraw wire harness through hole in cabinet top and lift the top off the rear hinges with timer case attached, *Figure 13*.
- Lay cabinet top flat and remove two cap screws, washers, lockwashers and nuts holding front of timer case to cabinet top, *Figure 6*.
- Remove screw holding rear of case to cabinet top and remove case, *Figure 6*.



## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **14. CABINET TOP (Metered Models)**

- Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top, *Figure 5*.
- 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, *Figure 4*.

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

- Insert key in service door lock on top of meter case and unlock door, *Figure 7*.
- Lift rear of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case, *Figure 7*.

**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.**

- Remove right mounting screw and slide accumulator bracket back. Once left mounting screw is over the keyhole opening, pull accumulator bracket up and out of meter case, *Figure 7*.

**NOTE: When reinstalling accumulator bracket, push it completely forward before replacing the right mounting screw.**

- Disconnect accumulator wires at connectors, *Figure 7*.

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

- Remove hex head ground screw holding green ground wire to accumulator mounting bracket, *Figure 7*.
- Remove two cap screws (inside meter case) holding meter case to cabinet top, *Figure 8*.
- Remove nut, lockwasher and screw holding meter case to right end of control hood, *Figure 8*.
- Remove two screws holding control hood to cabinet top and lift hood off rear tabs, *Figure 5*.
- While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Remove two screws holding bottom tabs on front panel to dryer cabinet. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top, *Figure 10*.
- Disconnect wires from door switch, *Figure 11*.

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

- Remove two cabinet top hold-down screws, *Figure 12*.
- Lift cabinet top to a vertical position by hinging it on the rear hinges, *Figure 13*.

**NOTE: While servicing, cabinet top may be raised and hinged on the rear hinges or supported against wall behind dryer.**

- Carefully withdraw the wire harness through hole in cabinet top and lift the top off the rear hinges with meter case attached, *Figure 13*.
- Lay cabinet top flat, remove carriage bolts, washers, bracket, gasket, and nuts holding meter case to cabinet top and remove the meter case, *Figure 8*.

## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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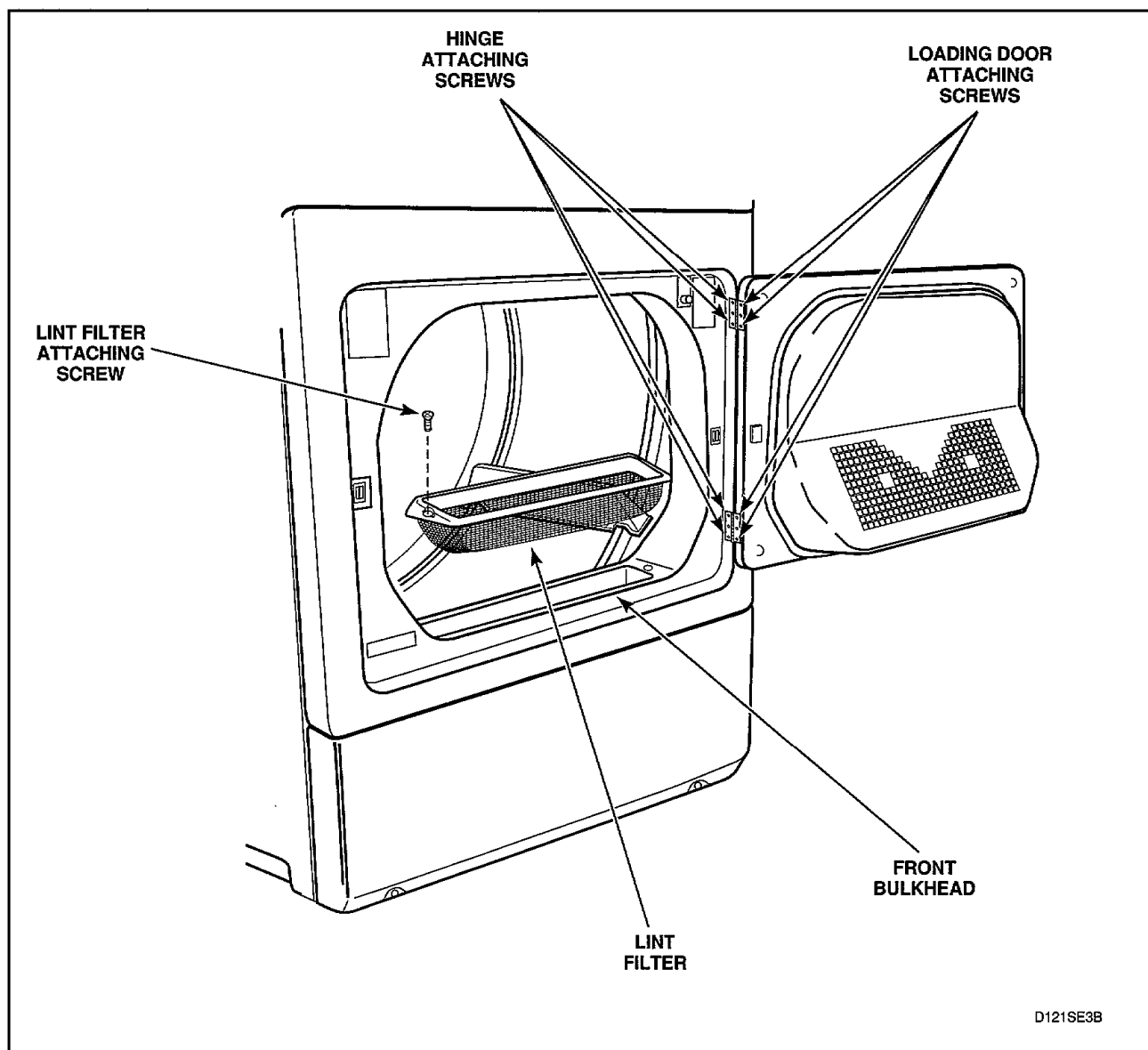
### **15. LINT FILTER (Figure 14)**

- Open loading door and remove screw on each end of lint filter.
- Lift filter out of front bulkhead.

### **16. LOADING DOOR**

- Open loading door.
- Remove screws holding loading door and hinges to front panel, *Figure 14*.

**IMPORTANT:** Be sure to replace the filter with the wording on the filter facing the front of the dryer.



D121SE3B

Figure 14

## ⚠WARNING

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

## REVERSING DOOR PROCEDURE

**The door on this dryer is completely reversible. To reverse door proceed as follows:**

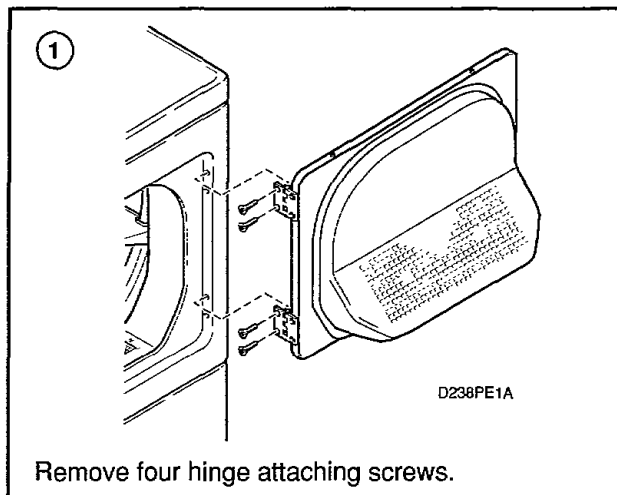


Figure 15

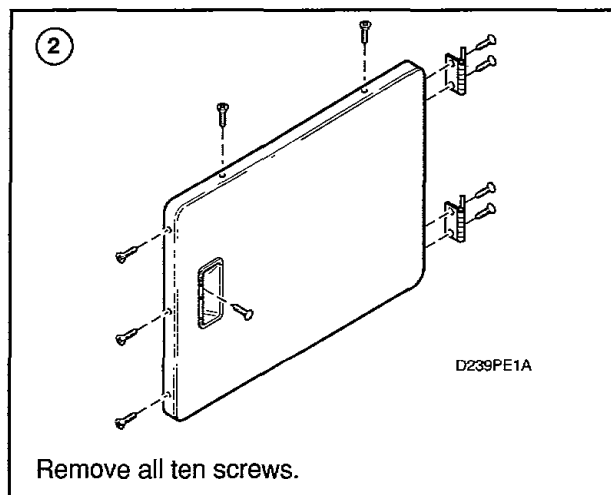


Figure 16

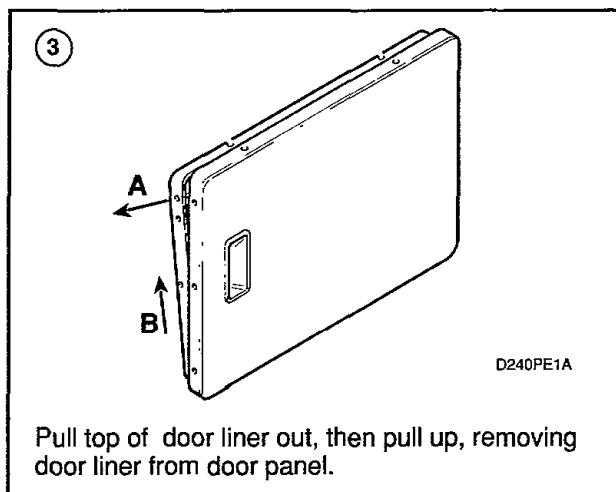


Figure 17

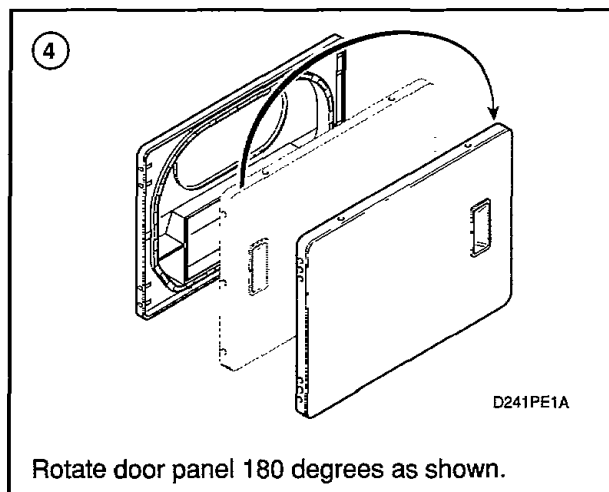


Figure 18

# **⚠WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

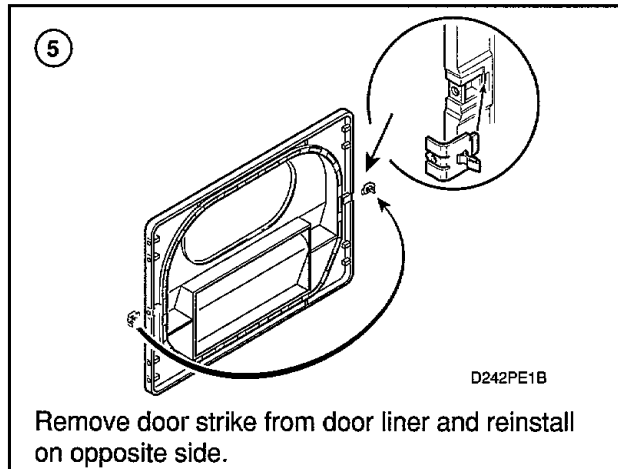


Figure 19

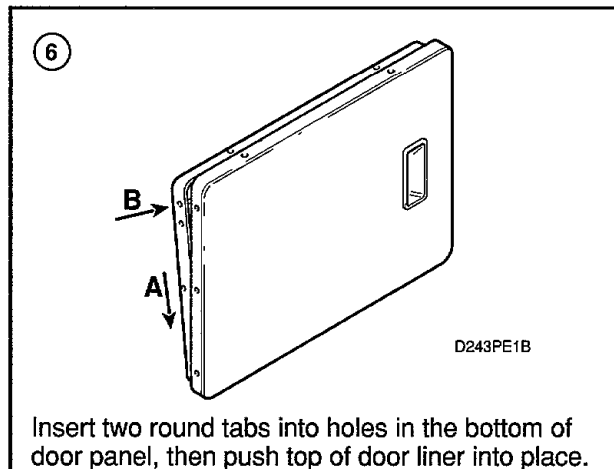


Figure 20

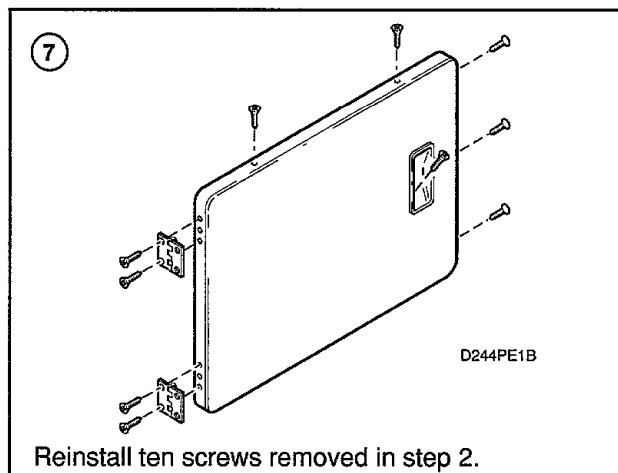


Figure 21

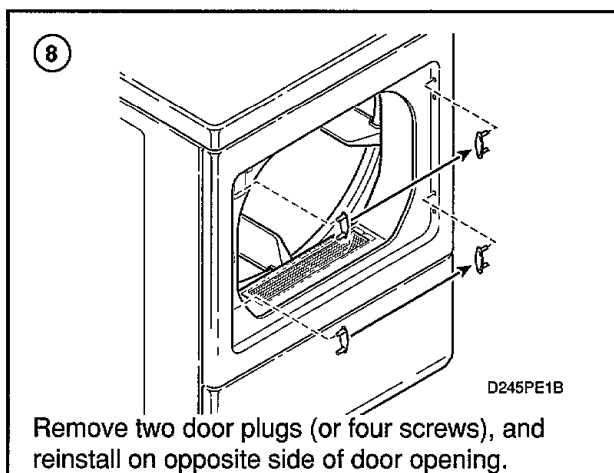


Figure 22

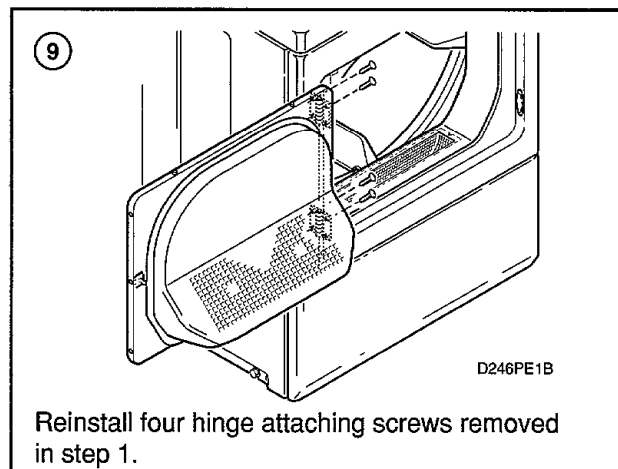


Figure 23

## ▲WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### 17. INNER AND OUTER DOOR PANELS AND DOOR PULL

- Remove four screws holding door assembly to hinges, *Figure 14*.
- Remove screw from door pull and the remaining seven screws around the door perimeter and separate panels, *Figure 24*.

**NOTE:** All screws are interchangeable except for the screw in the recessed door pull.

**IMPORTANT:** Do not over-tighten screw when reinstalling door pull.

### 18. DOOR STRIKE

- Open loading door.
- Remove screw holding door strike and bracket to loading door, *Figure 24*, and remove strike and bracket.

**NOTE:** You may have to loosen the two screws on end of door to allow for strike and bracket removal.

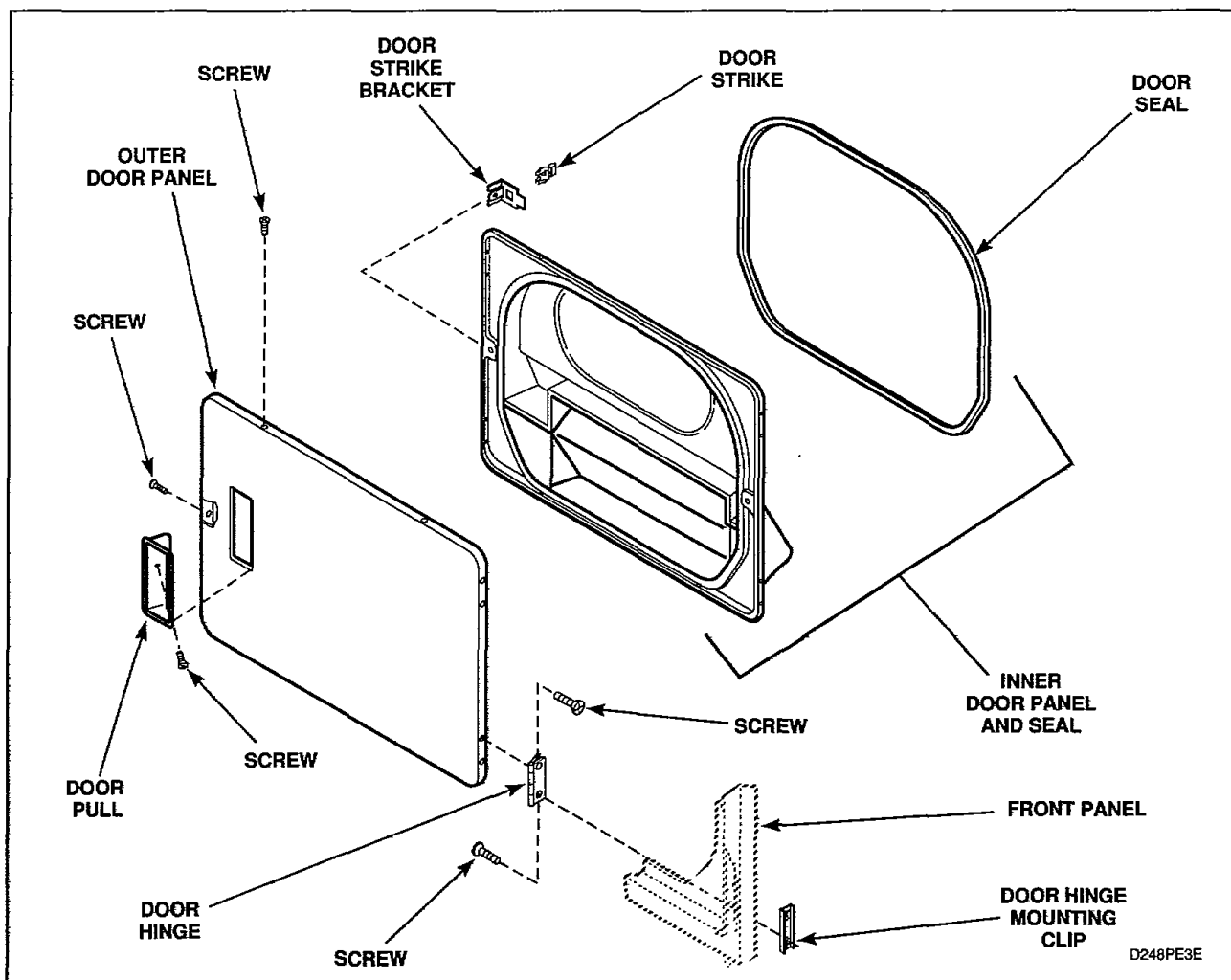


Figure 24

## **⚠WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

## **19. DOOR SEAL**

- Open loading door.
- Grasp either end of door seal at bottom of door and remove seal from tabs on inner door panel, *Figure 25*.

**NOTE:** When replacing seal, be sure seal is not stretched or distorted and the groove in the seal is installed on each tab on inner door panel, *Figure 25*, and the split in the seal is at the bottom of the door.

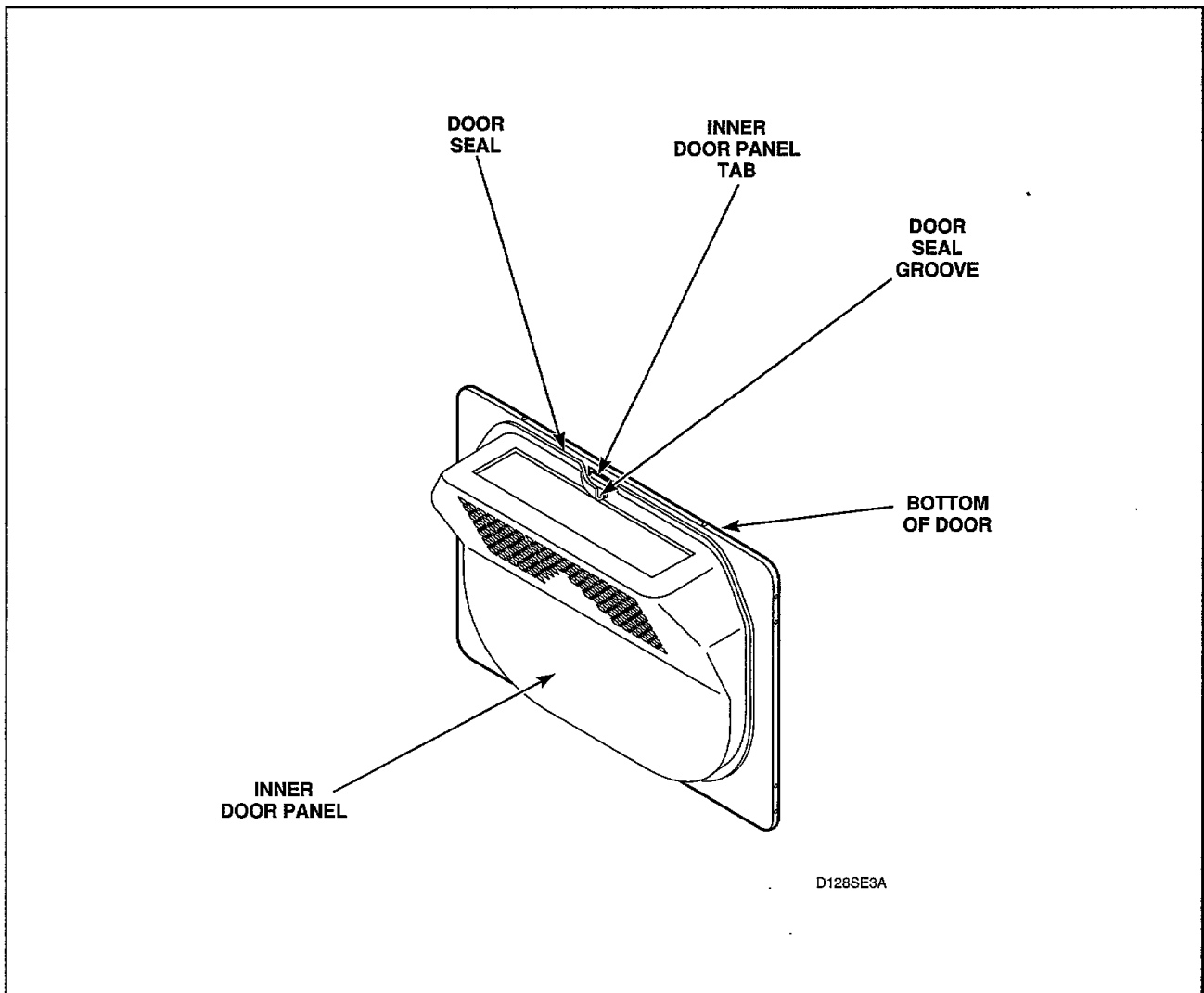


Figure 25

## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **20. FRONT PANEL AND PANEL SEAL**

- a. While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, *Figure 11*.

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

- e. Remove front panel seal from flange around inside of door opening, *Figure 26*.

**NOTE:** When reinstalling seal, be sure seal is properly positioned on front panel.

### **21. DOOR SWITCH**

- a. While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, *Figure 11*.

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

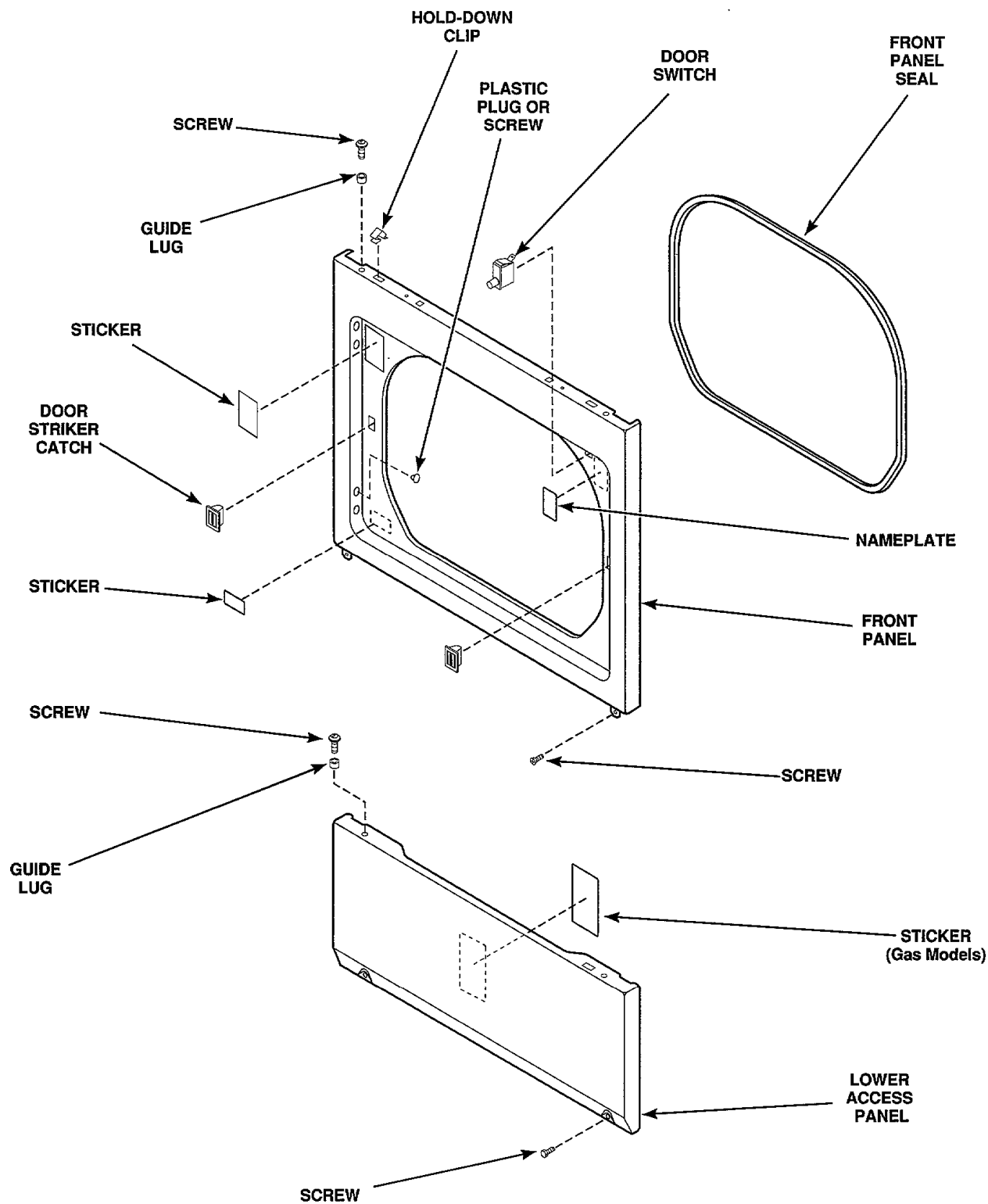
- e. Depress tabs on top and bottom of door switch and push switch out of front panel, *Figure 11*.

### **22. DOOR STRIKER CATCH**

- a. While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, *Figure 11*.

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

- e. Depress tabs on top and bottom of door striker catch and push catch out of front panel, *Figure 26*.



D131PE3E

Figure 26



## ⚠WARNING

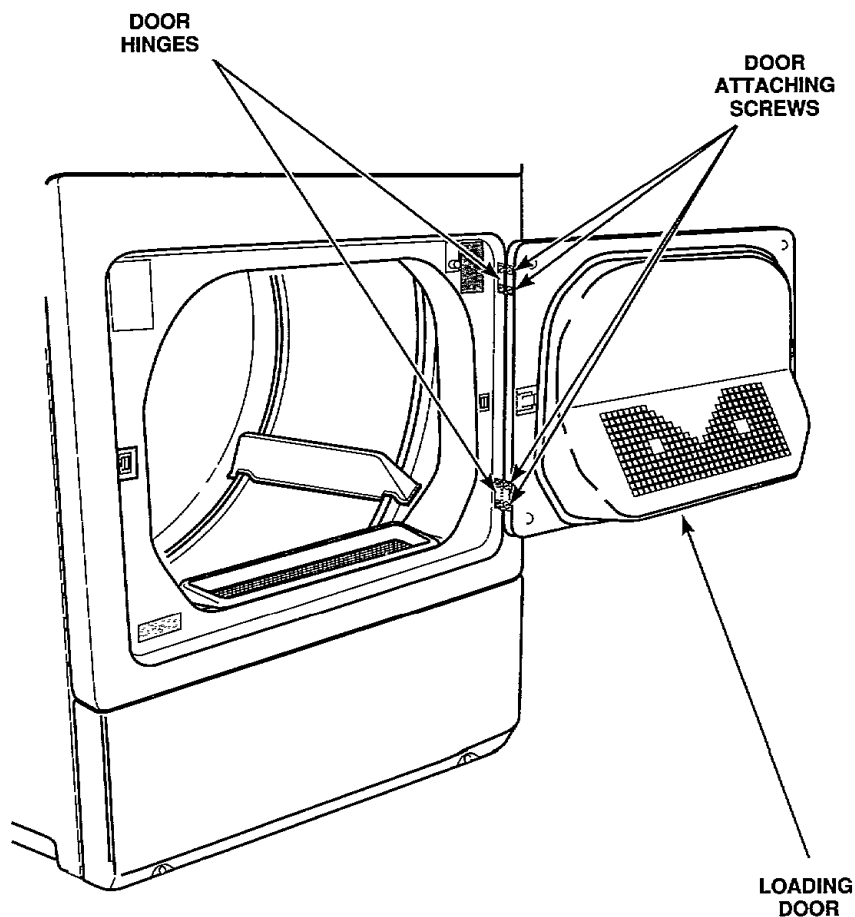
To reduce the risk of electrical shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

## 23. DOOR HINGE

- Open loading door. While supporting door, remove four screws holding door assembly and hinges to front panel, *Figure 27*.
- Remove four screws holding hinges to loading door, *Figure 27*.



D116SE3A

Figure 27

## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **24. HOLD-DOWN CLIPS AND GUIDE LUGS (FRONT PANEL)**

- a. While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom edge of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, *Figure 11*.

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

- e. Compress hold-down clips and remove from slot in top flange of front panel.
- f. Remove screws holding guide lugs to access panel or front panel, *Figure 26*.

## WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

## 25. BURNER SYSTEM COMPONENTS (Gas Models)

### a. Complete Gas Valve Assembly.

- (1) While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- (2) Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- (3) Close gas shut-off valve, disconnect igniter wires at disconnect blocks, sensor wires from flame sensor terminals, and wires from gas valve coils at the quick disconnect blocks, *Figure 30*.
- (4) Disconnect gas shut-off valve from gas valve at the union nut, *Figure 28*.

- (5) Remove two screws holding valve and mounting bracket to base.

- (6) Slide assembly forward, then lift gas valve and mounting bracket from base, *Figure 28*.

**NOTE:** When reinstalling gas valve and mounting bracket, tab on rear of mounting bracket must be slid into slot in dryer base.

**NOTE:** The holding and booster coil, and secondary coil can be replaced individually. Refer to parts manual for correct part numbers.

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

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

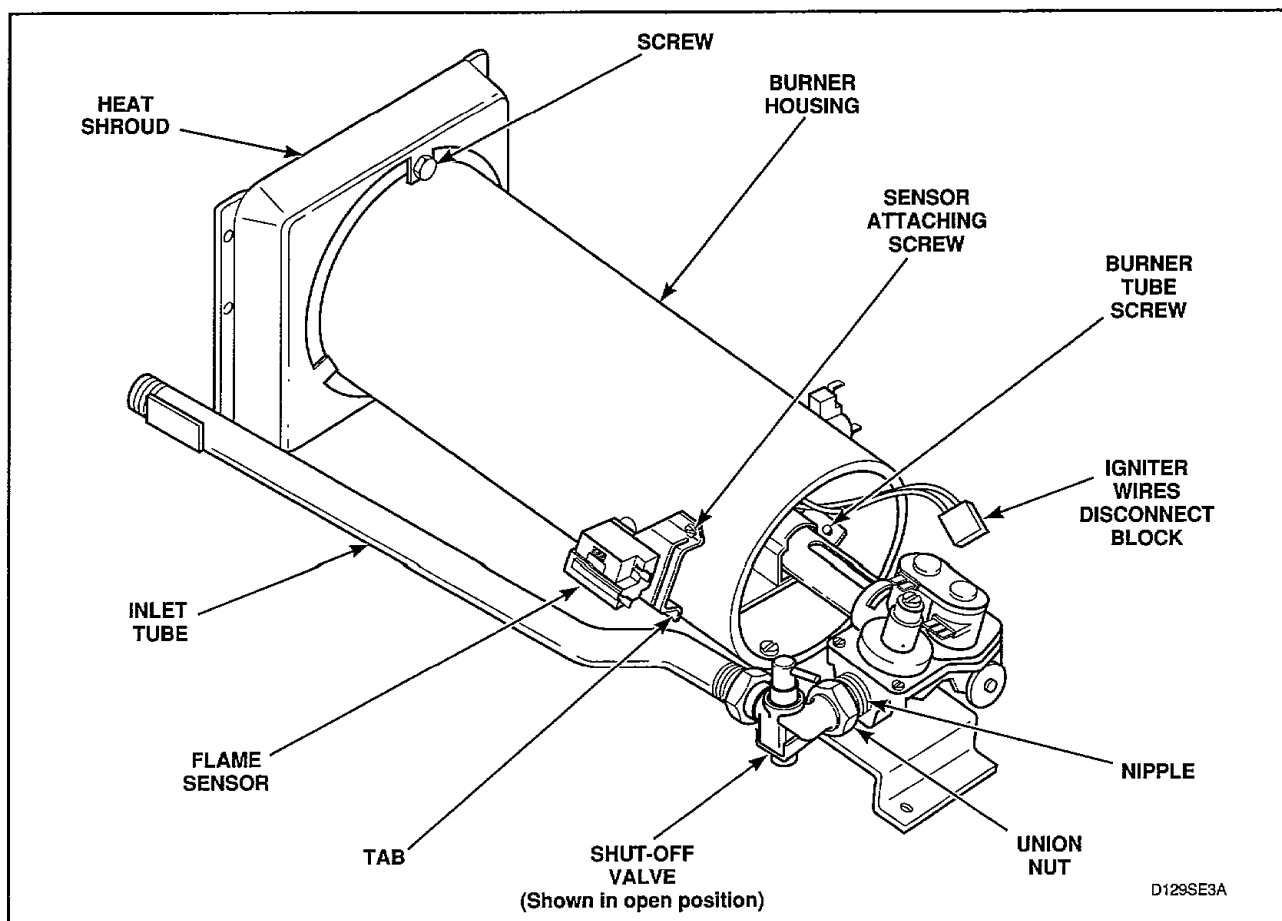


Figure 28

## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

- (1) Remove one screw from right side of burner housing holding burner tube in place, *Figure 28*.
- (2) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing, *Figure 28*.
- (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 igniter and bracket to burner tube and remove igniter and bracket, *Figure 29*.

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

**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.

### c. Flame Sensor.

- 1) While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- (2) Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- (3) Remove wires from sensor terminals, *Figure 28*.
- (4) Remove screw holding sensor to burner housing, *Figure 28*.

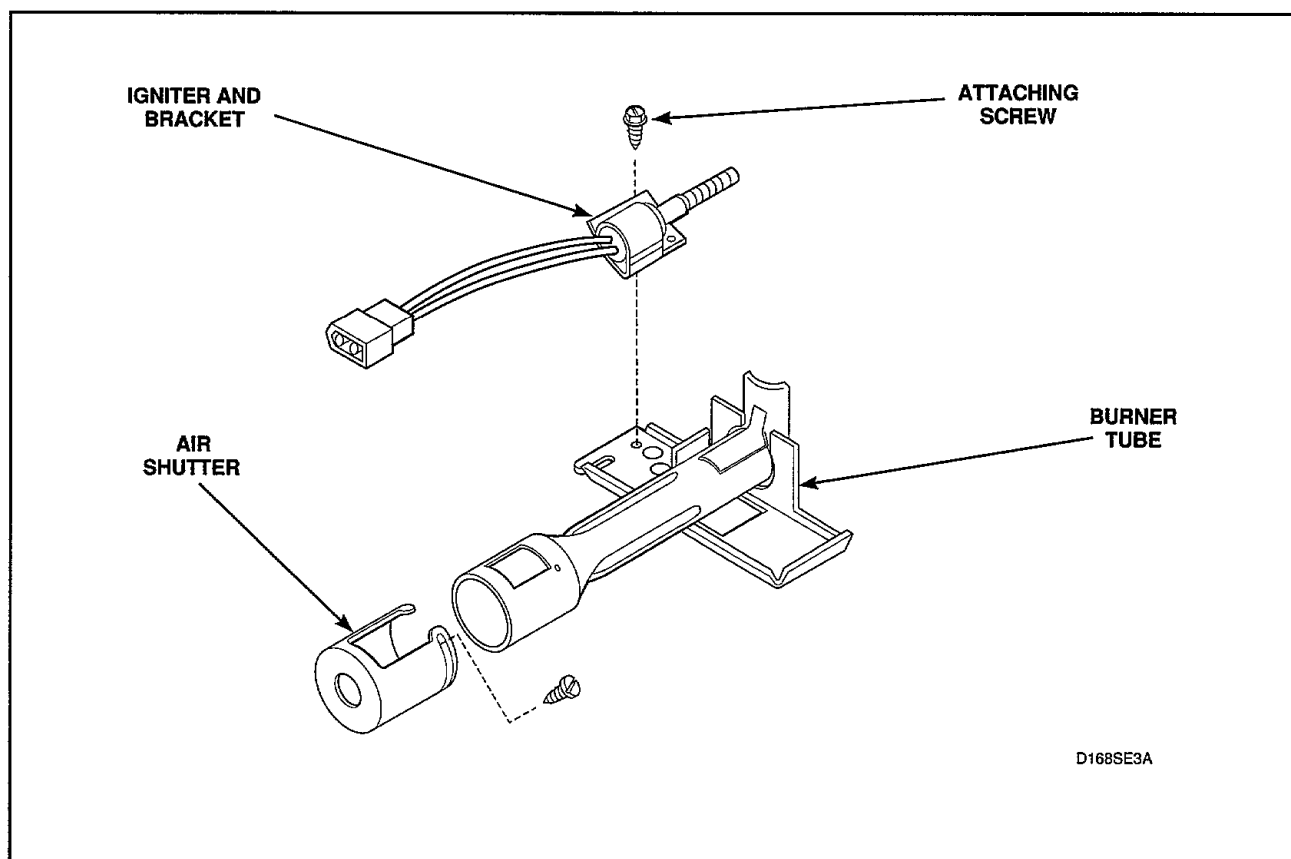


Figure 29

## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### 26. BURNER HOUSING AND HEAT SHROUD (Gas Models)

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect igniter wires at disconnect blocks, sensor wires from flame sensor terminals, and wires from gas valve coils at quick disconnect blocks, *Figure 30*.
- Remove screw from right side of burner housing holding burner tube in place, *Figure 30*.
- Gently move burner tube toward rear of dryer to disengage tab, *Figure 28*, from slot on left side of burner housing.
- Carefully rotate burner tube and igniter counterclockwise so tab is at 8 o'clock position.
- Move air shutter end of burner tube slightly to the 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.

- Remove screw holding burner housing to heat shroud, *Figure 28*.
- Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer, *Figure 30*.
- Remove two screws holding shroud to heater box and take shroud out through front of dryer.

### 27. LIMIT THERMOSTAT

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect wires and remove screws holding limit thermostat to burner housing or element plate, *Figure 30*.

### 28. HEATING ELEMENT (Electric Models)

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Remove two screws holding element and plate to heater box and pull element down and away from heater box, *Figure 30*.
- Disconnect wires from element and plate, *Figure 30*.
- Remove screws holding thermostat and thermal fuse to element plate, *Figure 30*.

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

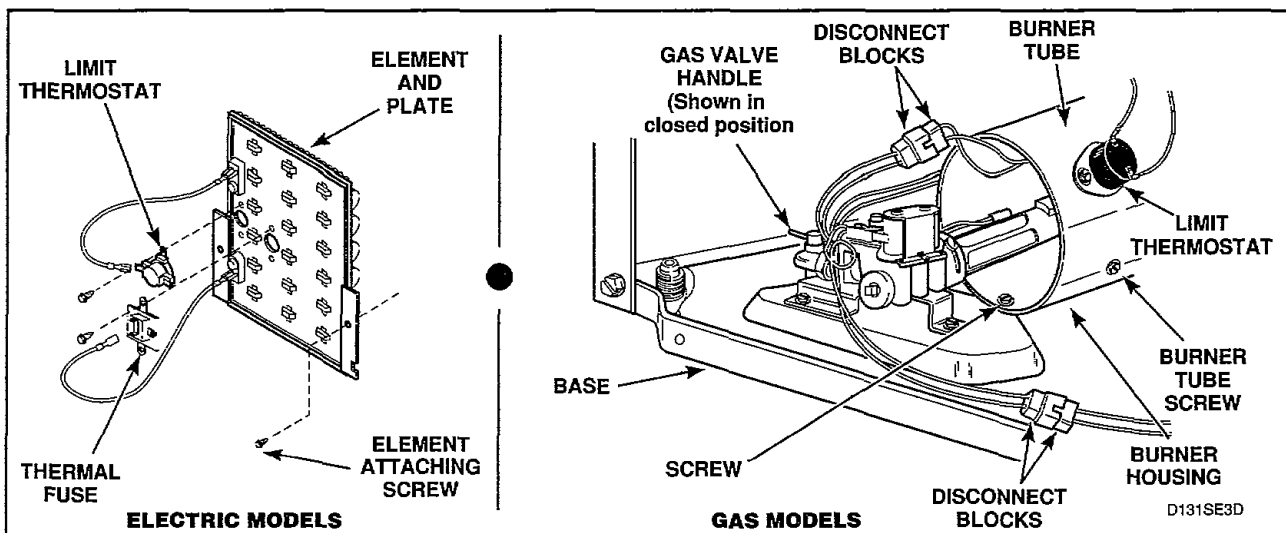


Figure 30

## WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

## 29. THERMOSTAT AND HEATER

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect wires and remove thermostat attaching screws, *Figure 31*, and remove thermostat and heater.

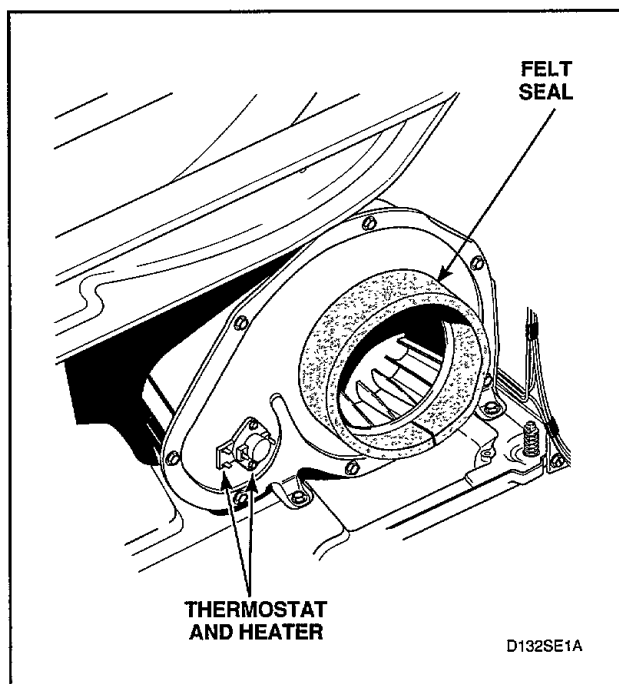


Figure 31

## 30. FRONT AIR DUCT

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Open loading door and remove two screws from lint filter and lift filter out of bulkhead, *Figure 14*.

**IMPORTANT:** When installing lint filter, be sure to install the filter with the wording on the filter facing the front of the dryer.

- Remove two screws holding air duct to front bulkhead and remove air duct, *Figure 32*.

## WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

**IMPORTANT:** When reassembling, be sure felt seal on exhaust fan cover, *Figure 31*, makes air tight seal on flange of duct, *Figure 32*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

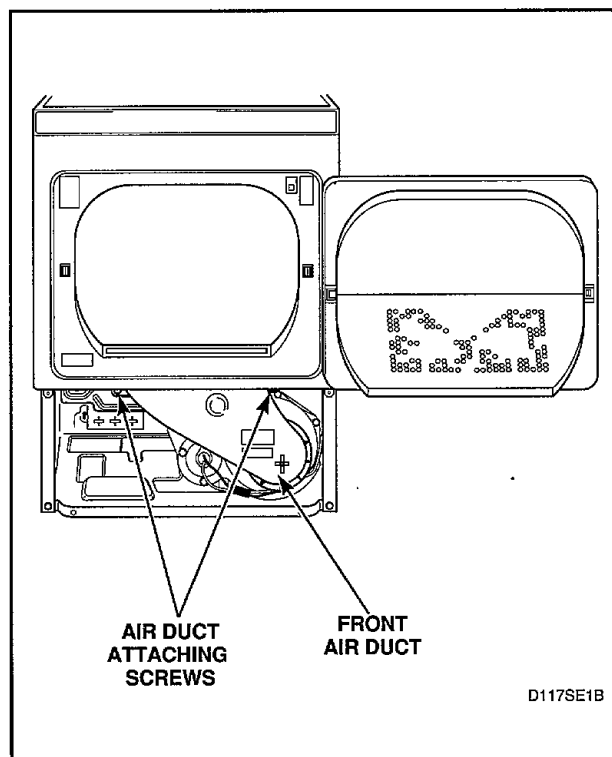


Figure 32

## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

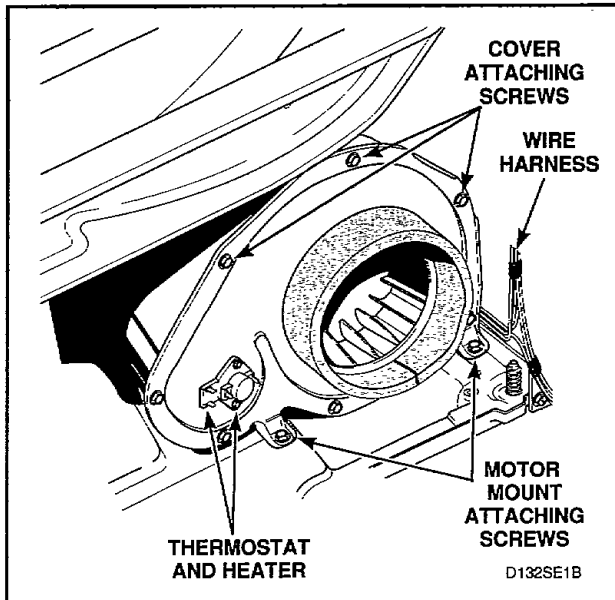


Figure 33

## ⚠ WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

**IMPORTANT:** When reassembling, be sure felt seal on exhaust fan cover, *Figure 31*, makes air tight seal on flange of duct, *Figure 32*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

- Disconnect wires from thermostat and heater, *Figure 33*.

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

### 31. MOTOR AND EXHAUST ASSEMBLY

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Open loading door and remove two screws from lint filter and lift filter out of bulkhead, *Figure 14*.

**NOTE:** When installing lint filter, be sure to install the filter with the wording on the filter facing the front of the dryer.

- Remove two screws holding air duct to front bulkhead and remove air duct, *Figure 32*.

## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

- f. Remove cylinder belt from idler and motor pulleys, *Figure 34*.

**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, *Figure 34*. Belt must be positioned around cylinder approximately three inches ahead of the rear rib on cylinder, *Figure 42*, with the ribbed surface of the belt against the cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

- g. Disengage motor wire harness connection block from motor switch by pressing in on the movable locking tabs (located on each end of the connection block) and pulling away from motor, *Figure 37*.

**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), *Figure 33*. 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, *Figure 34*.

- h. Pull assembly forward and disengage the middle exhaust duct.
- i. Rotate the motor and exhaust assembly 90° **counterclockwise** and slide out through front of dryer.

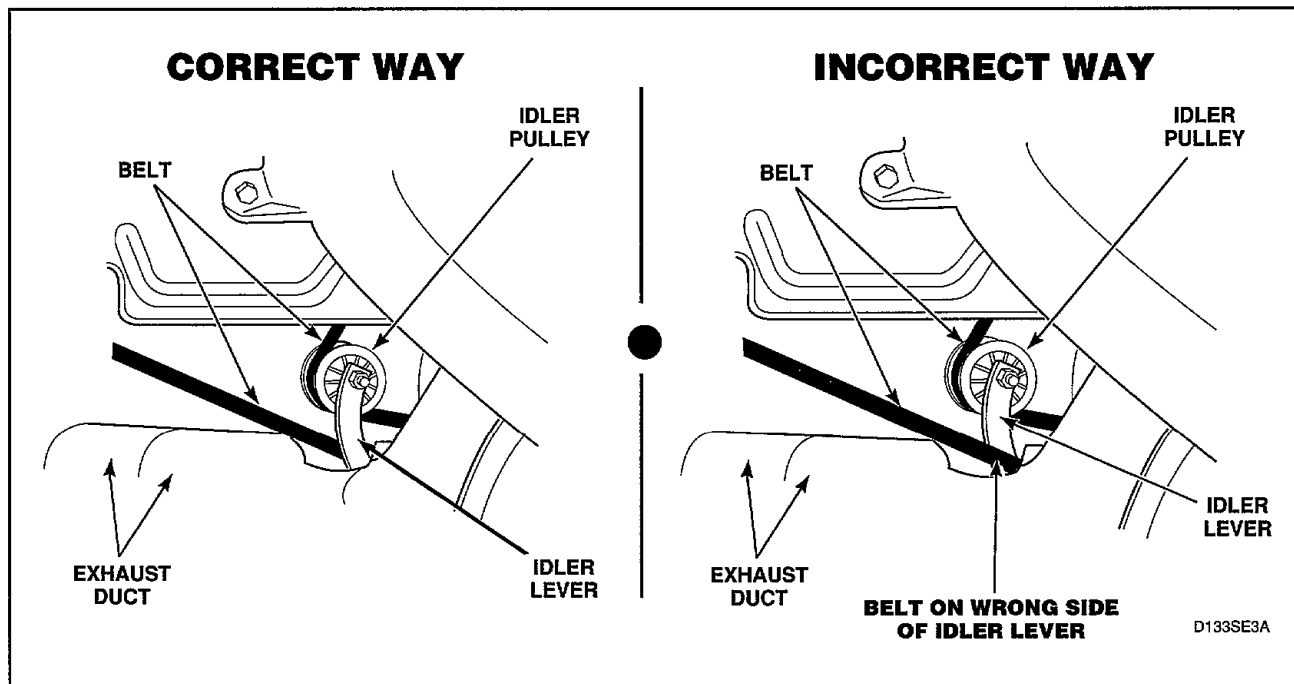


Figure 34

(continued)



## ▲WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### j. Motor pulley and idler pulley assemblies.

Refer to *Figure 35* for motor and idler pulley removal.

**NOTE:** Use a 7/8 inch socket and unthread motor pulley from motor shaft (left hand thread).

**NOTE:** When repairing or replacing the idler arm, it is important to make sure the idler arm moves freely. To ensure that the idler arm can move freely, proceed as follows:

- (1) Unhook idler spring.
- (2) Lift idler arm approximately 3 inches and release. If idler arm does not fall back to the base of the motor mount, then idler arm bolt is too tight.
- (3) Loosen idler arm bolt 1/4 turn.
- (4) Add grease between idler arm and motor mount.
- (5) If condition persists, replace idler arm and bolt.

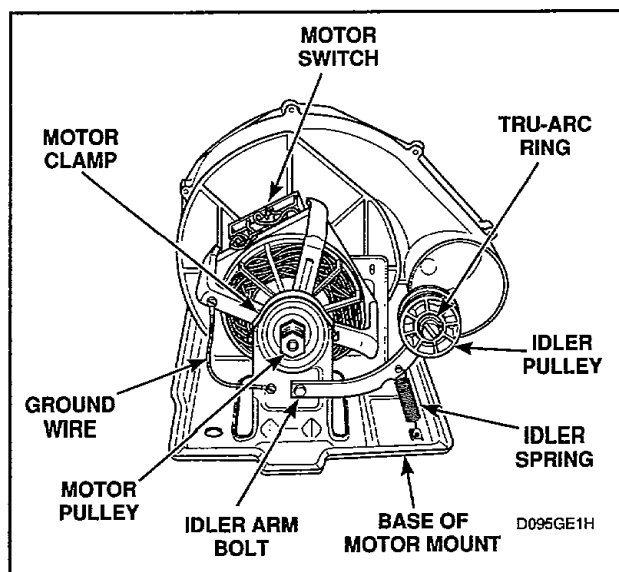


Figure 35

### k. Impeller and housing.

- (1) Remove screws holding cover to housing, *Figure 33*.
- (2) 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.
- (3) Remove three screws holding the exhaust housing to the motor mounting bracket, *Figure 36*.

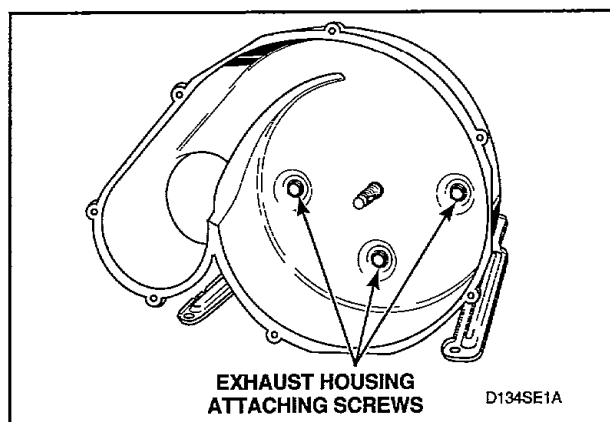


Figure 36

## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### I. Motor

- (1) Disengage motor wire harness connection block from the motor by pressing in on the movable locking tabs (located on each side of the connection block) and pulling away from motor, *Figure 37*.

**IMPORTANT:** To avoid an open circuit, **DO NOT** pull on the connection block wires when removing blocks from motor as this could damage the wires or terminal crimping.

Before attaching wire harness connection block to motor, be sure all the male terminals on motor are straight and are capable of accepting the terminals from the wire harness connection block.

- (2) Disconnect ground wire from motor, *Figure 35*.
- (3) Use a screwdriver and pry two motor clamps off motor mounting bracket, *Figure 35*. Then lift motor out of mounting bracket.

**NOTE:** When replacing motor, motor switch location should be at 10 o'clock position (viewed from pulley end, *Figure 35*) with the anti-rotating notch (located on the front and rear cradles) in the motor mounting bracket.

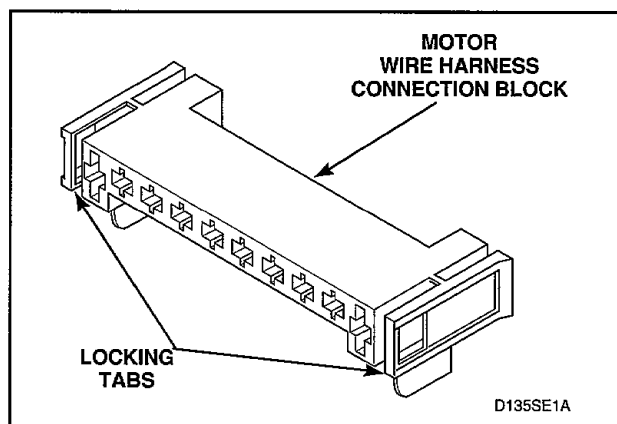


Figure 37

### m. Motor Connection Block Terminals

Remove terminals from the motor wire harness connection block using No. 283P4 Terminal Extractor Tool as follows:

- (1) Insert the tool into the block on the back of the terminal being removed, *Figure 38*.
- (2) Apply tool pressure to compress the terminal locking tab on terminal and force the terminal and wire out back side of connection block, *Figure 38*.

To install terminal in connection block, insert terminal (with wire securely crimped in place) into back side of connection block. Push terminal into connection block until locking tab on terminal spreads and holds terminal in place.

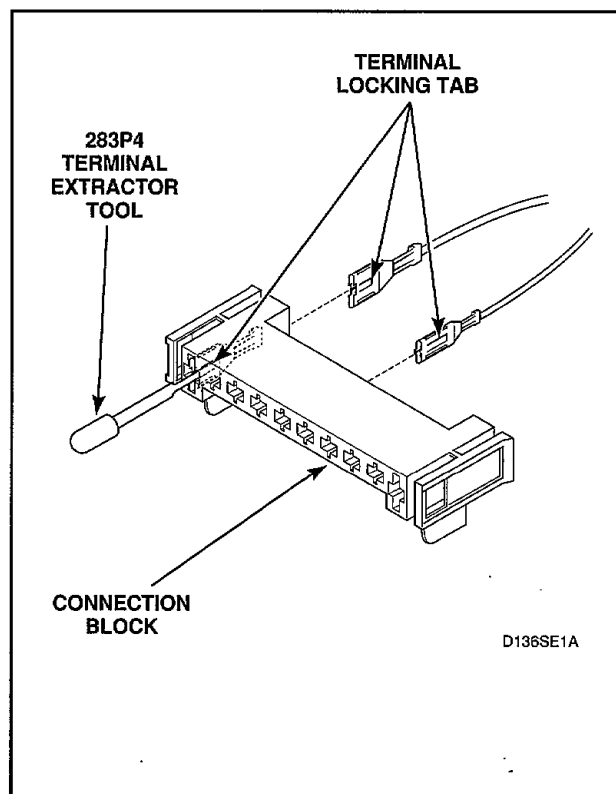


Figure 38

## ⚠WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### 32. FRONT BULKHEAD ASSEMBLY

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- Disconnect wires from door switch, *Figure 11*.

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

- Disengage belt from motor and idler pulleys, *Figure 34*.

**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, *Figure 34*. Belt must be positioned around cylinder approximately three inches ahead of the rear rib on cylinder with the ribbed surface of the belt against the cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

- Remove four screws holding bulkhead to front flange of cabinet, *Figure 39*. Lift complete bulkhead assembly out of slots in cabinet.

**NOTE:** When reassembling the front bulkhead to the cabinet, hold glides in position with finger tips on the edges of glides. Once bulkhead is in place, inspect the glide position with a mirror to insure the glides are aligned with the cylinder, making sure the tabs are visible, *Figure 40*.

## ⚠WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

**IMPORTANT:** When reassembling, be sure felt seal on exhaust fan cover, *Figure 31*, makes airtight seal on flange of duct, *Figure 32*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

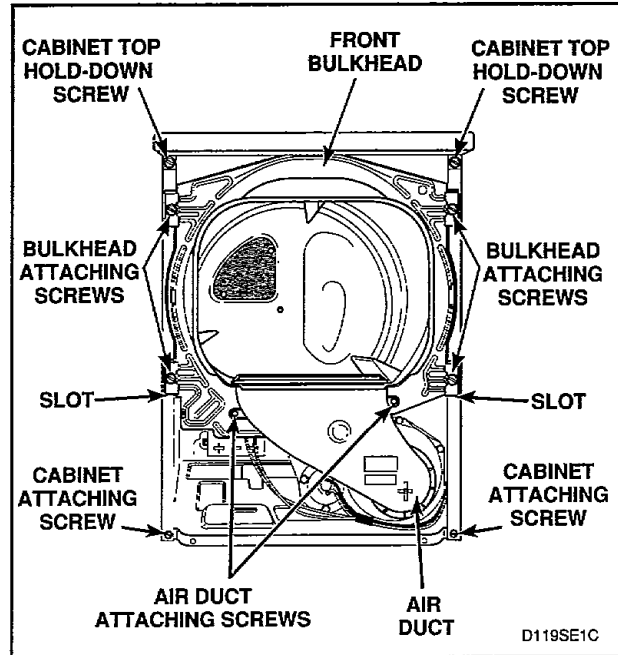


Figure 39

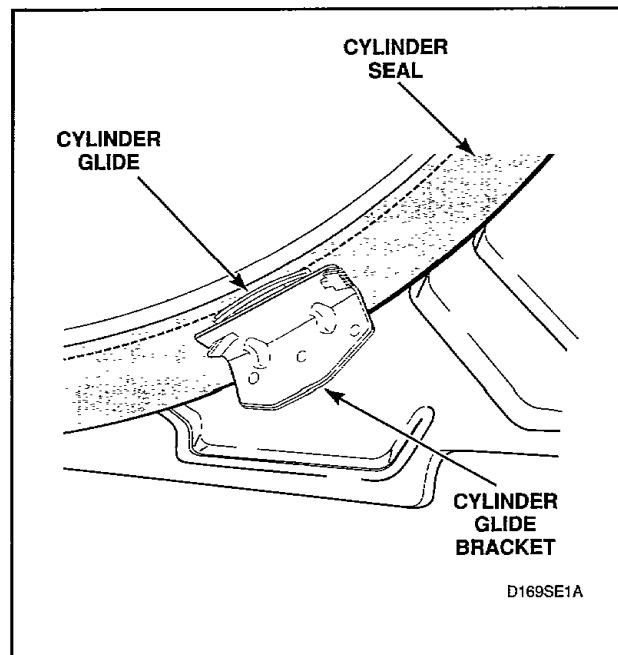


Figure 40

(continued)

## ⚠WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### g. Cylinder glides and pads (Figure 40)

- (1) Unsnap glides from each glide bracket and remove glides and pads.

### h. Front cylinder seal (Figure 41)

When installing the cylinder seal, it is important to remember these two important steps:

- (1) The stitching on the seal must face towards the dryer center, *Figure 41*.
- (2) The short flap, *Figure 41*, must be glued to the bulkhead and the long flap left loose.

**IMPORTANT:** The replacement seal can be adhered to the bulkhead using No. 22506P Sealant. This is accomplished by applying a bead of sealant around the entire flanged area where the felt seal contacts the bulkhead.

## 33. CYLINDER BELT

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- Disconnect wires from door switch, *Figure 11*.

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

- Disengage belt from motor and idler pulleys, *Figure 34*.
- Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet, *Figure 39*.

**NOTE:** When reassembling the front bulkhead to the cabinet, hold glides in position with finger tips on the edges of glides. Once bulkhead is in place, inspect the glide position with a mirror to ensure the glides are aligned with the cylinder, making sure the tabs are visible, *Figure 40*.

## ⚠WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

**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, *Figure 31*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

- 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, *Figure 34*. Belt must be positioned around cylinder approximately three inches ahead of the rear rib on cylinder, *Figure 42*, with the ribbed surface of the belt against cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

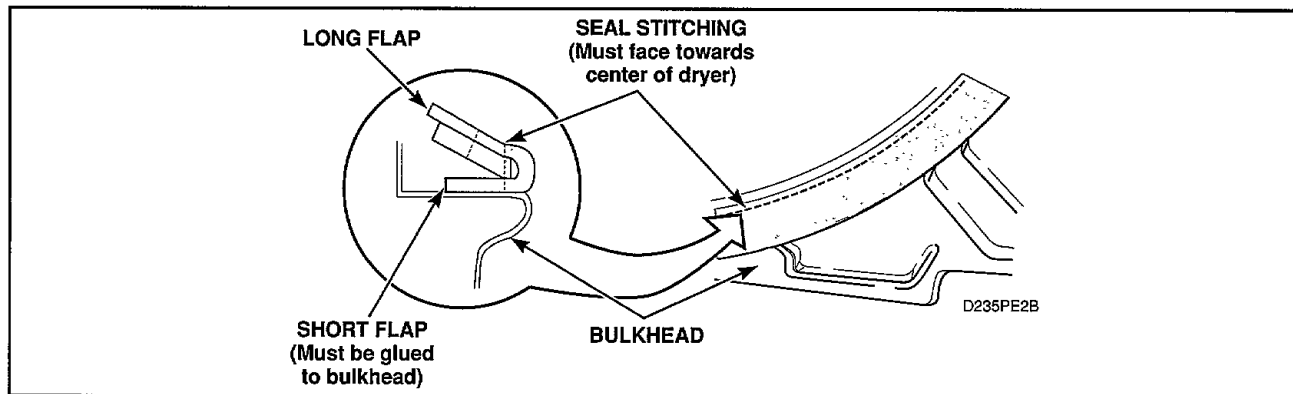


Figure 41

## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### 34. CYLINDER ASSEMBLY

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- Disconnect wires from door switch, *Figure 11*.

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

- Disengage belt from motor and idler pulleys, *Figure 34*.

**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, *Figure 34*. Belt must be positioned around cylinder approximately three inches ahead of the rear rib on cylinder, *Figure 42*, with the ribbed surface of the belt against cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

- Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet, *Figure 39*.

**NOTE:** When reassembling the front bulkhead to the cabinet, hold glides in position with finger tips on the edges of glides. Once bulkhead is in place, inspect the glide position with a mirror to ensure the glides are aligned with the cylinder, making sure the tabs are visible, *Figure 40*.

## ⚠ WARNING

To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

**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, *Figure 31*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

- Loosen two cabinet top hold-down screw, *Figure 39*.
- Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.
- Baffles**  
Remove screws holding baffles to cylinder, *Figure 42*.

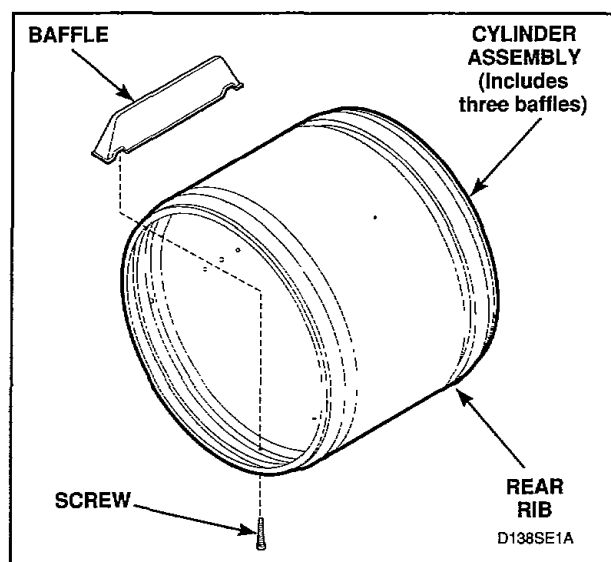


Figure 42

## **⚠WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **35. REAR SEAL**

- a. While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, *Figure 11*.

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

- e. Remove two cabinet top hold-down screws, *Figure 39*.
- f. Insert key in service door lock on top of meter case and unlock door, *Figure 7*.
- g. Lift rear of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case.
- h. Remove two hex head cap screws (inside meter case) holding meter case to cabinet top, *Figure 8*.
- i. Raise front of cabinet top hinging it on the rear hinges, *Figure 13*.

**NOTE:** When servicing, cabinet top may be raised and hinged on the rear hinges, or supported against the wall behind the dryer.

- j. Disengage belt from motor and idler pulleys, *Figure 34*.

**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, *Figure 34*. Belt must be positioned around cylinder approximately three inches ahead of the rear rib on cylinder, *Figure 42*, with the ribbed surface of the belt against cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

- k. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet, *Figure 39*.

**NOTE:** When reassembling the front bulkhead to the cabinet, hold glides in position with finger tips on the edges of glides. Once bulkhead is in place, inspect the glide position with a mirror to ensure the glides are aligned with the cylinder, making sure the tabs are visible, *Figure 40*.

## **⚠WARNING**

**To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.**

W005

**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, *Figure 31*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

- l. Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.
- m. Pull rear cylinder seal from flanged edge of bulkhead, *Figure 43*.

**IMPORTANT:** The replacement seal can be adhered to the bulkhead using No. 22506P Sealant. This is accomplished by applying a bead of sealant around the entire flanged area where the felt seal contacts the bulkhead.

**NOTE:** When installing the cylinder seal, it is important to remember these two important steps:

- (1) The stitching on the seal must face towards the dryer center, *Figure 41*.
- (2) The short flap, *Figure 41*, must be glued to the bulkhead and the long flap left loose.

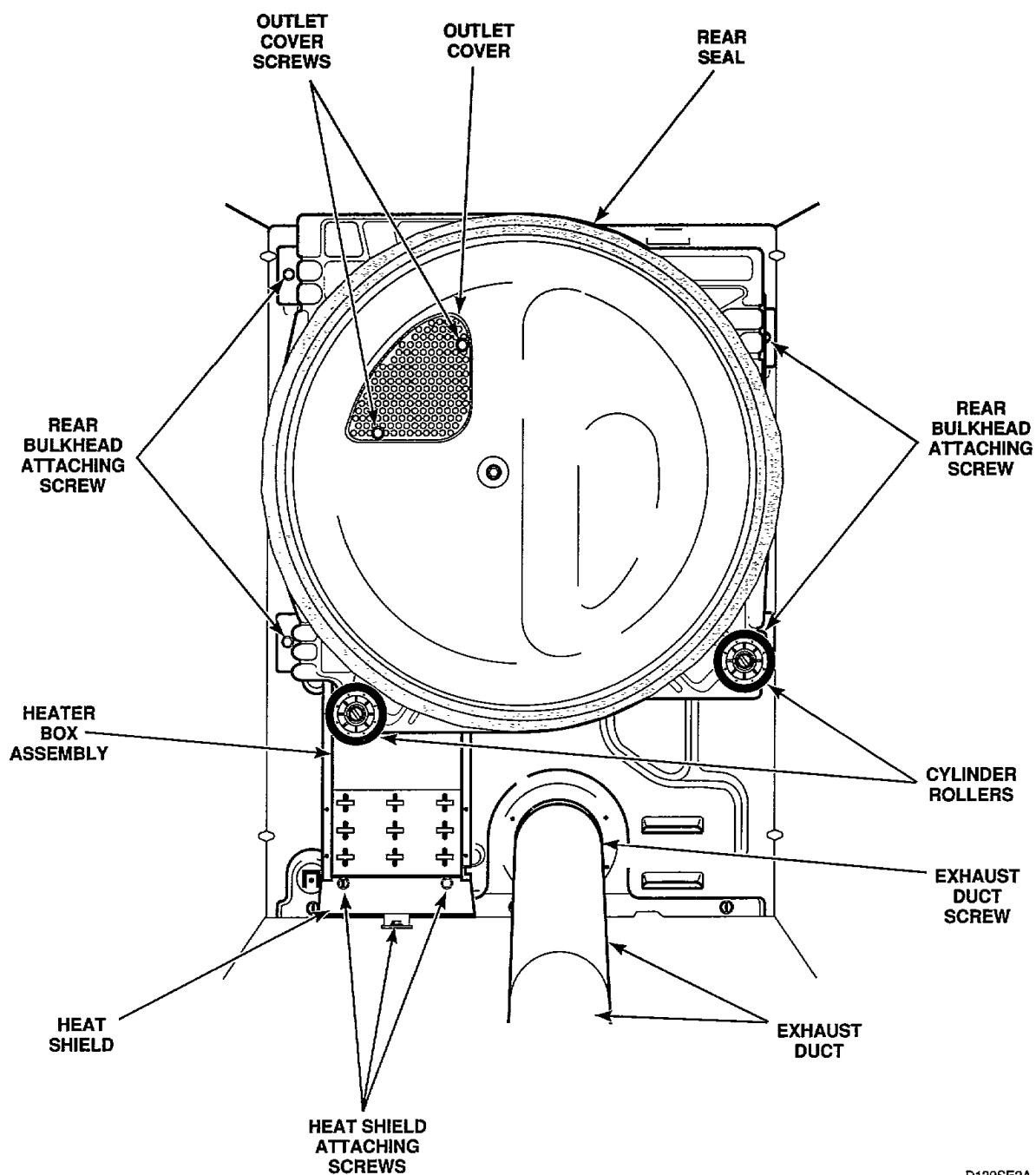


Figure 43

## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

## **36. CYLINDER ROLLERS**

- a. While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, *Figure 11*.

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

- e. Disengage belt from motor and idler pulleys, *Figure 34*.

**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, *Figure 34*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder, *Figure 42*, with the ribbed surface of the belt against cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

- f. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet, *Figure 39*.

**NOTE:** When reassembling the front bulkhead to the cabinet, hold glides in position with finger tips on the edges of glides. Once bulkhead is in place, inspect the glide position with a mirror to ensure the glides are aligned with the cylinder, making sure the tabs are visible, *Figure 40*.

## **⚠ WARNING**

**To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.**

W005

**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, *Figure 31*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

- g. Pull cylinder forward allowing rear of cylinder to drop down exposing rollers, *Figure 44*.
- h. Refer to *Figure 44* for removal of roller from bulkhead.

**NOTE:** When replacing the cylinder roller, it is important that cylinder roller is installed with the flanged surface of the roller bearing facing towards the front of the dryer.

## **37. OUTLET COVER**

Open door and remove two screws holding outlet cover to rear bulkhead, *Figure 43*.



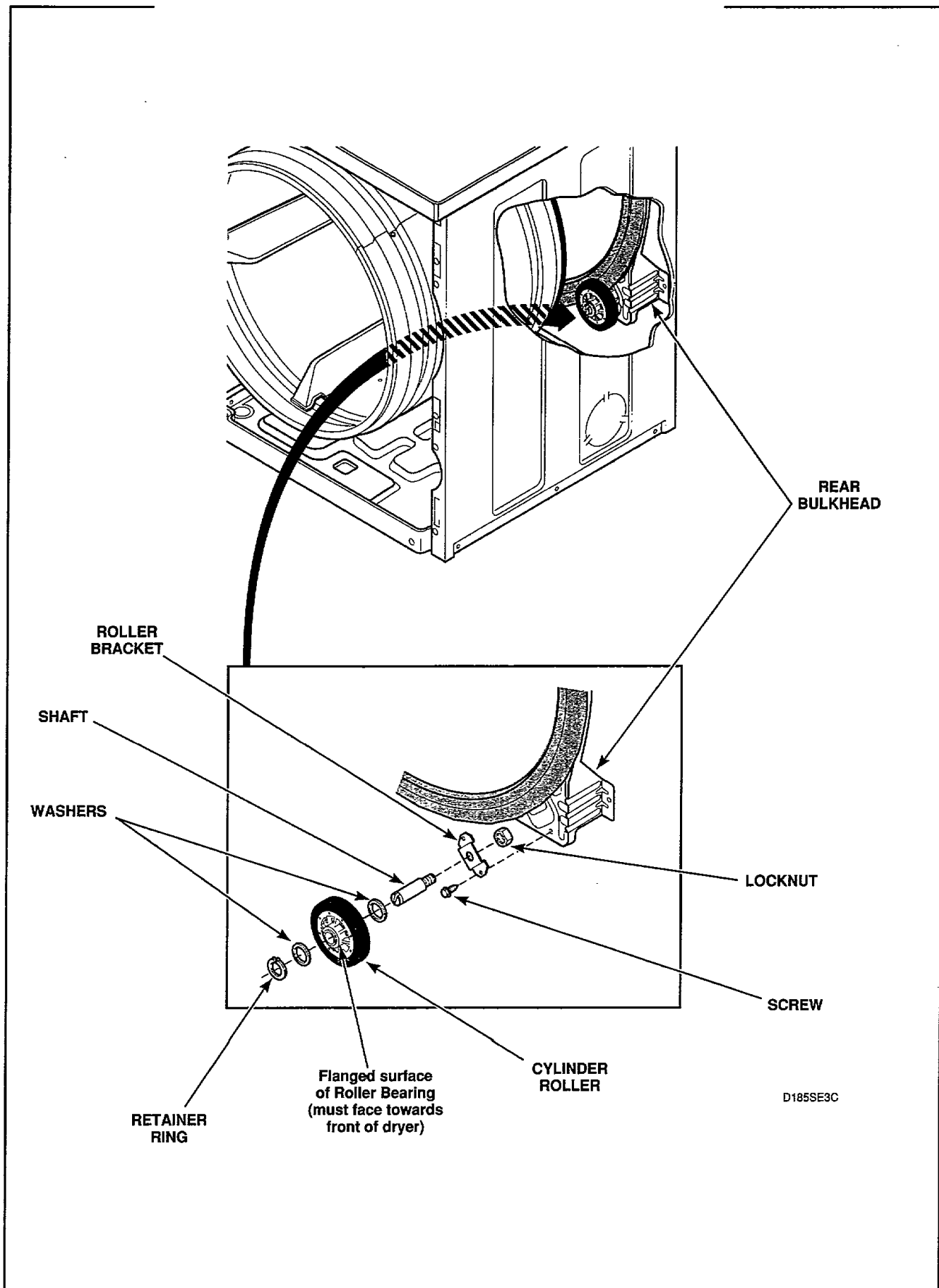


Figure 44

## **⚠WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **38. REAR BULKHEAD AND HEATER BOX ASSEMBLIES**

- a. While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, *Figure 11*.

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

- e. Disengage belt from motor and idler pulleys, *Figure 34*.

**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, *Figure 34*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder, *Figure 42*, with the ribbed surface of the belt against cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

- f. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet, *Figure 39*.

**NOTE:** When reassembling the front bulkhead to the cabinet, hold glides in position with finger tips on the edges of glides. Once bulkhead is in place, inspect the glide position with a mirror to ensure the glides are aligned with the cylinder, making sure the tabs are visible, *Figure 40*.

## **⚠WARNING**

**To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.**

W005

**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, *Figure 31*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

- g. Loosen two cabinet top hold-down screw, *Figure 39*.
- h. Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.
- i. **Gas models:**
  - (1) Disconnect igniter wires at disconnect blocks, sensor wires from flame sensor terminals, and wires from gas valve coils at the quick disconnect blocks, *Figure 28*.

## WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

- (2) Remove screw from right side of burner housing, holding burner tube in place, *Figure 30*.
- (3) Gently move burner tube toward rear of dryer to disengage tab, *Figure 28*, from slot on left side of burner housing.
- (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, *Figure 28*.
- (7) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer, *Figure 30*.

- (8) Remove four screws holding shroud to heater box, *Figure 28*, and remove shroud out through front of dryer.

j. **Electric models:**

- Remove two screws holding element and plate to heater box, then pull element down and away from heater box, *Figure 30*.
- k. Remove screw holding heat shield to dryer base, *Figure 43*.
  - l. While supporting bulkhead, remove the four screws holding rear bulkhead to dryer cabinet, *Figure 43*, then lift complete assembly out of dryer.
  - m. Remove two screws holding heat shield to heater box, *Figure 43*.
  - n. To remove heater box from rear bulkhead, refer to *Figure 45*.

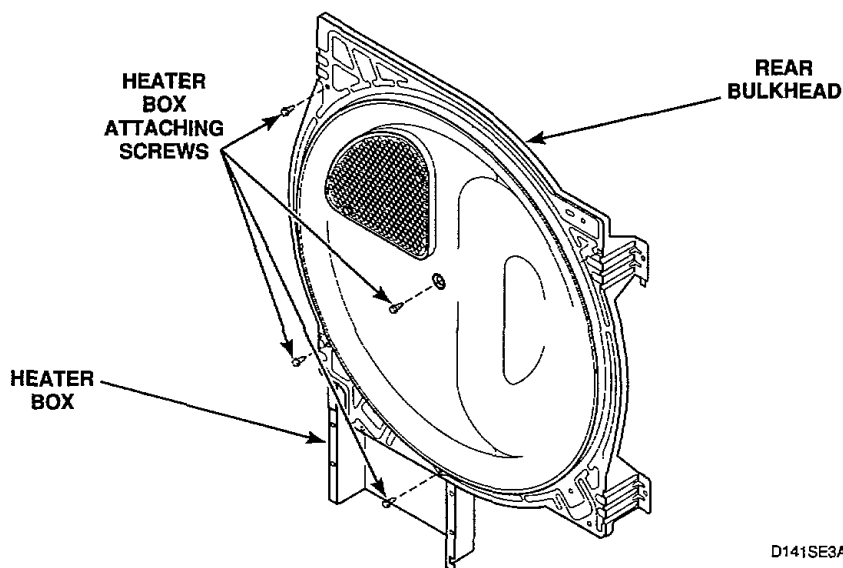


Figure 45

## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### 39. TERMINAL BLOCK OR POWER CORD

#### a. Terminal block (Electric models)

- (1) While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- (2) Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- (3) Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- (4) Disconnect wires from door switch, *Figure 11*.

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

- (5) Remove two cabinet top hold-down screws, *Figure 39*.
- (6) Lift cabinet top to a vertical position by hinging it on the rear hinges, *Figure 46*.

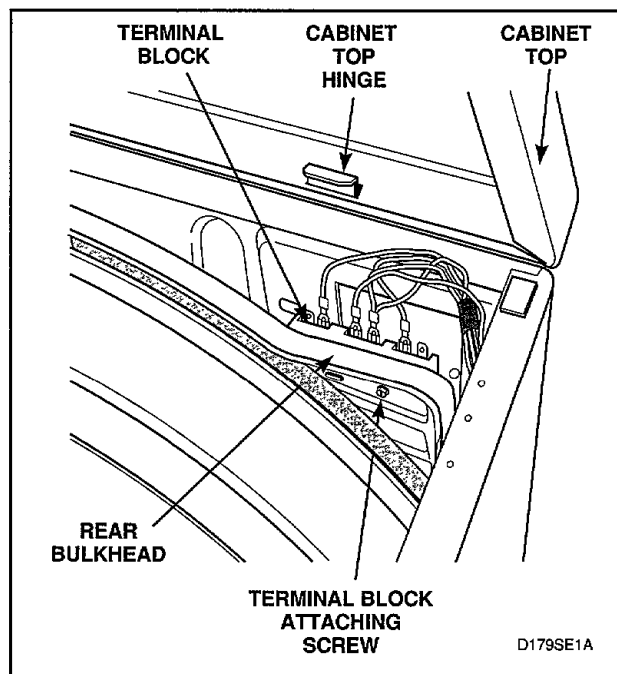


Figure 46

**NOTE:** When servicing, cabinet top may be raised and hinged on the rear hinges, or supported against wall behind the dryer.

- (7) Remove all wires from terminal block. (Refer to appropriate wiring diagram when rewiring terminal block.)
- (8) Remove screw holding terminal block to rear bulkhead, *Figure 46*.

#### b. Power cord (Gas models)

- (1) Remove access plate on rear of cabinet.
- (2) Remove strain relief, *Figure 47*.
- (3) Remove screw holding power cord ground wire to rear bulkhead, *Figure 47*.

**NOTE:** Reconnect screw and ground wire into same hole in bulkhead when reinstalling power cord.

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

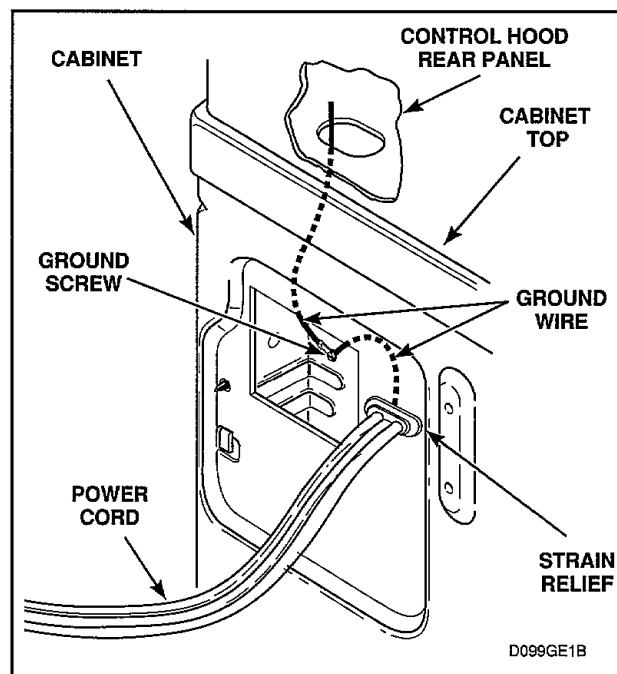


Figure 47

## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **40. CABINET**

- Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top, *Figure 5*.
- 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, *Figure 4*.

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

#### **c. Metered models:**

- Insert key in service door lock on top of meter case and unlock door, *Figure 7*.
- Lift rear of service door approximately 45° off meter case to disengage notched tabs with internal rib at top of meter case, *Figure 7*.

**NOTE: When reinstalling 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.**

- Disconnect accumulator wires at connector, *Figure 7*.

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

- Remove hex head ground screw holding green ground wire to accumulator mounting bracket, *Figure 7*.
- Remove two hex head cap screws (inside meter case) holding meter case to cabinet top, *Figure 8*.

#### **d. Non-metered models:**

- Remove four screws holding timer and plate to timer case, *Figure 6*.
- Pull timer and plate out of timer case as far as wires will permit, *Figure 6*.
- Disconnect wires from timer, *Figure 6*.

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

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.

- Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- Disconnect wires from door switch, *Figure 11*.

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

- Remove two cabinet top hold-down screws, *Figure 39*.
- Lift cabinet top to a vertical position by hinging it on the rear hinges, *Figure 46*.

**NOTE: When servicing, cabinet top may be raised and hinged on the rear hinges or supported against wall behind dryer.**

- Carefully withdraw wire harness through hole in cabinet top and lift the cabinet top assembly off the rear hinges and set aside.
- Disengage belt from motor and idler pulleys, *Figure 34*.

**NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler pulleys, *Figure 34*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder, *Figure 42*, with the ribbed surface of the belt against cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.**

- Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet, *Figure 39*.

**NOTE: When reassembling the front bulkhead to the cabinet, hold glides in position with finger tips on the edges of glides. Once bulkhead is in place, inspect the glide position with a mirror to ensure the glides are aligned with the cylinder, making sure the tabs are visible, *Figure 40*.**

## **⚠ WARNING**

**To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.**

W005

(continued)

## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

**IMPORTANT:** During reinstallation of front bulkhead, be sure that air duct is properly positioned with the flange inside the felt seal on exhaust fan cover, *Figure 31*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

- 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.

**o. Gas models:**

- (1) Disconnect igniter wires or disconnect blocks, sensor wires from flame sensor terminals, *Figure 28*, and wires from gas valve coils at the quick disconnect blocks, *Figure 30*.
- (2) Remove screw from right side of burner housing, holding burner tube in place, *Figure 30*.
- (3) Gently move burner tube toward rear of dryer to disengage tab, *Figure 28*, from slot on left side of burner housing.
- (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 the 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, *Figure 28*.
- (7) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer, *Figure 28*.
- (8) Remove four screws holding shroud to heater box, *Figure 28*, and remove shroud out through front of dryer.

**Electric models:**

- (1) Remove two screws holding element and plate to heater box, then pull element down and away from heater box, *Figure 30*.
  - (2) Pull element and plate out of dryer far enough to disconnect wires from element.
- p. Remove screw holding heat shield to dryer base, *Figure 43*.
- q. While supporting bulkhead, remove screws holding bulkhead to rear of dryer cabinet, and remove assembly out of dryer, *Figure 43*.
- r. Remove screw holding exhaust duct to dryer cabinet and pull duct out of cabinet, *Figure 43*.
- s. Remove two screws from each rear hinge, *Figure 46*.
- t. Remove screw holding terminal block access plate to rear of dryer cabinet and remove plate.
- u. Remove wire harness clips.
- v. Remove guide lugs and screws.
- w. Remove two screws from front edge at each side of cabinet, *Figure 39*. Then remove remaining screws from around bottom of cabinet and lift cabinet off base.

## ▲WARNING

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### 41. BASE

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing bottom of front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- Disconnect wires from door switch, *Figure 11*.

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

#### e. Gas models:

- Disconnect igniter wires or disconnect blocks, sensor wires from flame sensor terminals, *Figure 28*, and wires from gas valve coils at the quick disconnect blocks, *Figure 30*.
- Close main gas shut-off valve and gas shut-off valve inside of dryer, *Figure 30*.
- Disconnect gas line to dryer.
- Remove two screws holding gas valve bracket to base and remove valve with lead-in pipe attached, *Figure 28*.
- Remove screw from right side of burner housing, holding burner tube in place, *Figure 30*.
- Gently move burner tube toward rear of dryer to disengage tab, *Figure 28*.
- 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.

- Remove screw holding front of burner housing to dryer base, *Figure 28*.
- Remove four screws holding shroud to heater box, *Figure 28*, and remove shroud and burner housing out through front of dryer.

#### Electric models:

- Remove two screws holding element and plate to heater box, the pull element down and away from heater box, *Figure 30*.
  - Disconnect wire harness from limit thermostat, thermal fuse and/or heating element, *Figure 30*.
- Remove screw holding heat shield to dryer base, *Figure 43*.
  - Open loading door and remove two screws from lint filter and lift lint filter out of front bulkhead, *Figure 14*.
  - Remove screws holding air duct to front bulkhead and remove air duct, *Figure 32*.

**NOTE:** When reassembling, be sure felt seal on exhaust fan cover, *Figure 31*, makes air tight seal on flange of air duct.

- Disconnect wires from thermostat and heater, *Figure 31*.

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

- Remove cylinder belt from idler and motor pulleys, *Figure 34*.

**NOTE:** When reinstalling belt, be sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler pulleys, *Figure 34*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder, *Figure 42*, with the ribbed surface of the belt against cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

- Remove two screws holding motor mounting bracket to dryer base, *Figure 33*.
- Disengage motor wire harness connection block from motor switch by pressing in on the movable locking tabs (located on each end of the connection block) and pulling away from motor, *Figure 38*.

## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

**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), *Figure 33*. 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, *Figure 34*.

- m. Pull motor and exhaust assembly forward and disengage the middle exhaust duct.
- n. Rotate the motor and exhaust assembly 90° **counterclockwise** and slide out through front of dryer.
- o. Remove two screws from front edge at each side of cabinet, *Figure 39*. Then remove remaining screws from around bottom of cabinet and lift cabinet off base.
- p. Remove leveling legs from base and reinstall on new base.



# SECTION III

## Adjustments

### ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### 42. LEVELING LEGS (Figure 48)

**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, adjust the legs until dryer is level.

**NOTE:** Legs can be adjusted outside the dryer by using a 1-1/4 inch size wrench, or from inside the dryer (with lower front access panel removed) by using a 1/4 inch drive ratchet with extension through center hole in leg.

- 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. Place rubber cup (supplied with dryer) under each of the leveling legs, *Figure 48*.

**IMPORTANT:** DO NOT move the dryer at any time unless 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.

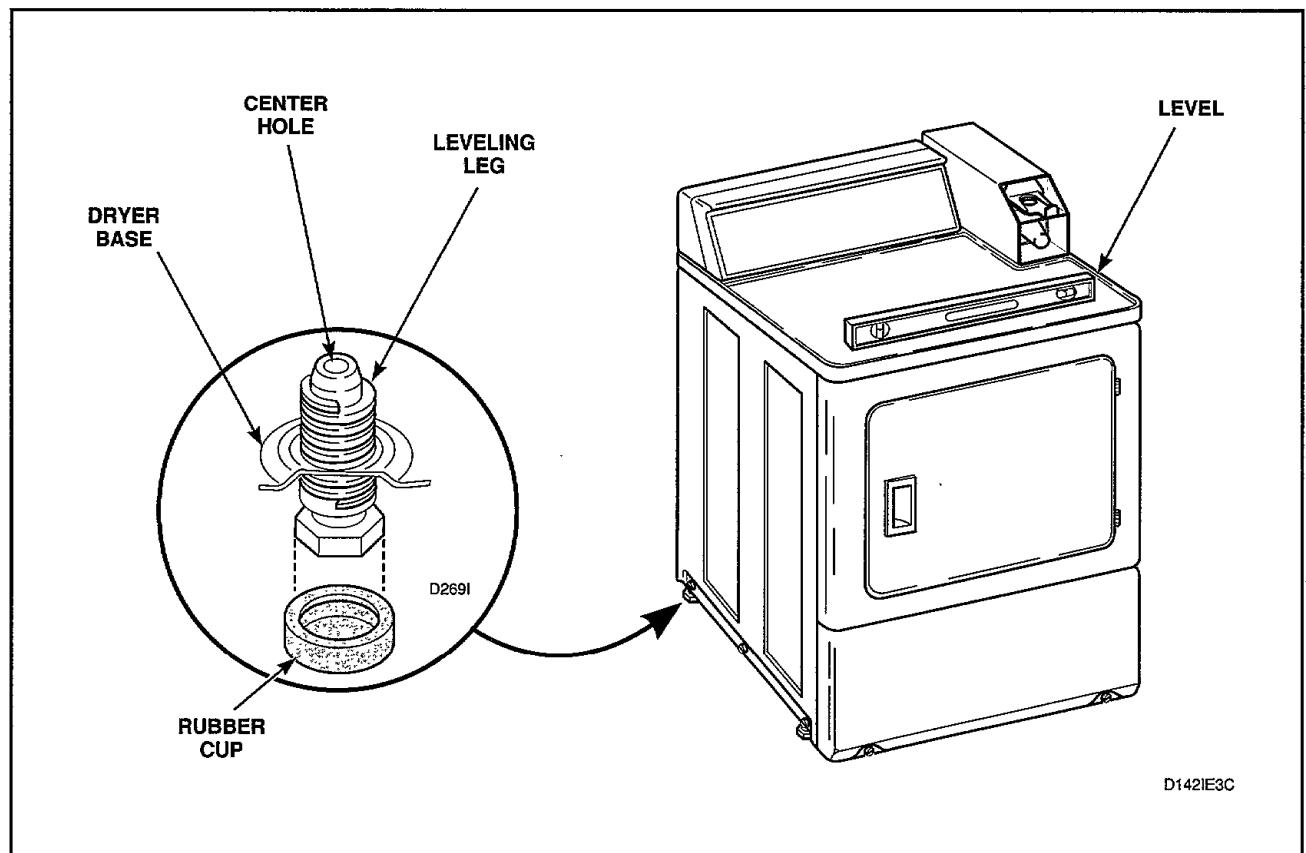


Figure 48

## ⚠ WARNING

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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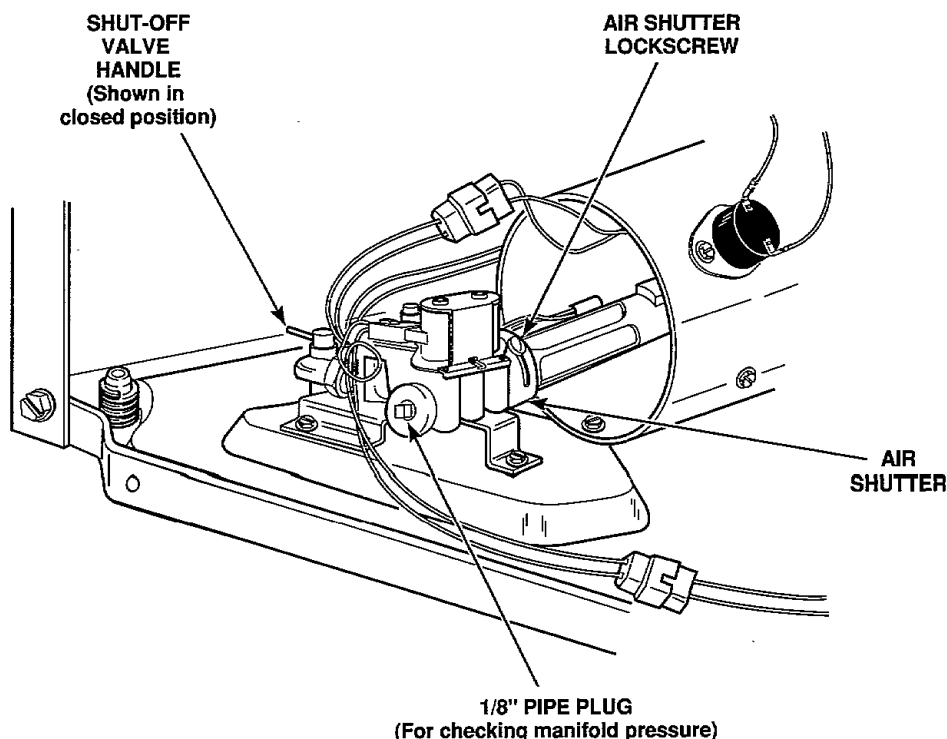
### 43. BURNER FLAME (Gas Models)

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 9*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Set temperature switch at NORMAL.
  - Metered Models – Place coins in slide and carefully push slide in as far as possible
  - Nonmetered Models – set timer at “50” minutes.
- Close the loading door, start the dryer in a heat setting (refer to Operating Instructions supplied with the dryer); the dryer will start, the igniter will glow red and the main burner will ignite.
- Allow the dryer to operate for approximately five minutes, then loosen the air shutter lock screw, *Figure 49*.
- Turn the air shutter to the left to get a luminous yellow-tipped flame, then turn it back slowly to the right to obtain a steady soft blue flame.
- After proper flame is obtained, tighten air shutter lock screw securely, *Figure 49*.
- Reinstall lower front access panel and screws.

## ⚠ WARNING

**To reduce the risk of fire and serious injury or death, the lower front access panel must be in place during normal operation.**

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



D144SE3A

Figure 49

# SECTION IV

## Test Procedures

### ⚠WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

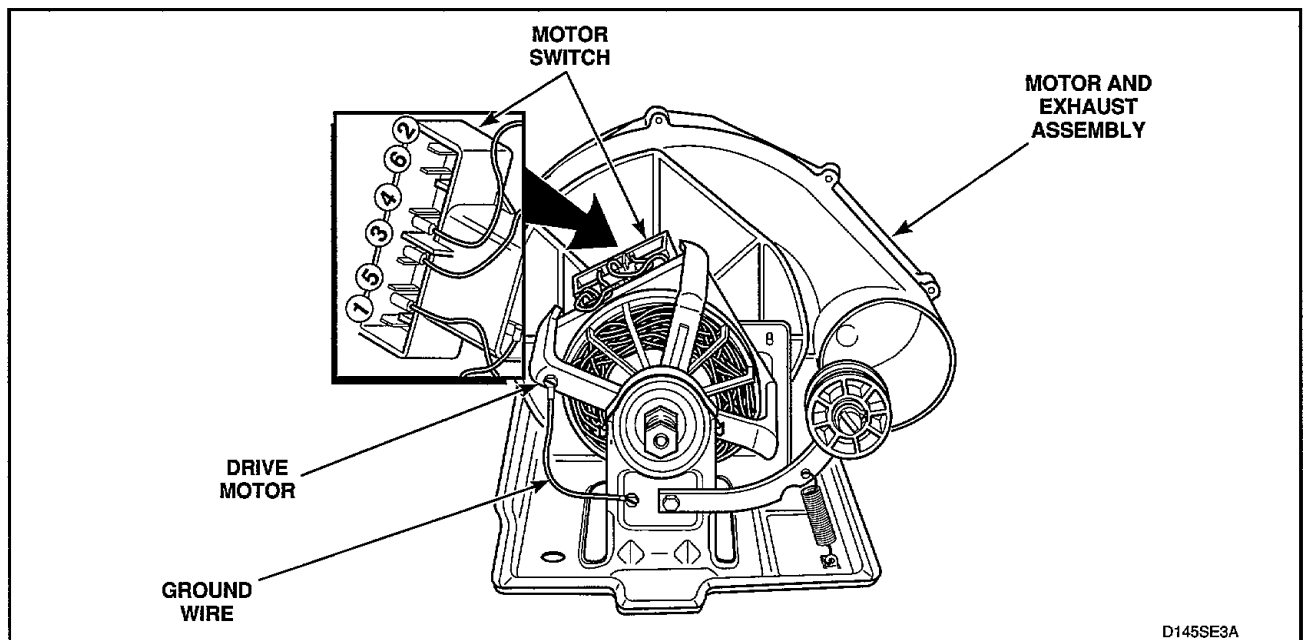
W001

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

#### 44. DRIVE MOTOR (Figure 50)

- a. Remove motor and exhaust assembly, paragraph 33.
- b. Disconnect motor wire harness at motor connection block.

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



D145SE3A

Figure 50

**⚠WARNING**

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

c. Emerson Motor Switch (Refer to SECTION VI for Internal Wiring of the Dryer Motor Switch.)

**⚠WARNING**

Disconnect electric power to dryer before performing any of the following steps or replacing inoperative motor switch.

**START TERMINALS**

NOTE: Disconnect yellow wire from motor switch before testing start terminals.

A. Continuity exists between switch terminal 5 and black wire.

NO

YES

B. Manually depress actuator. Continuity broken between switch terminal 5 and black wire.

NO

Inoperative start switch. Replace switch.

YES

**RUN TERMINALS**

NOTE: Reconnect yellow wire to motor switch before testing run terminals.

C. Continuity broken between switch terminal 6 and yellow wire.

NO

YES

D. Manually depress actuator. Continuity exists between switch terminal 6 and yellow wire.

NO

Inoperative start switch. Replace switch.

YES

**HEATER CIRCUIT TERMINALS**

E. Continuity broken between switch terminal 1 and switch terminal 2.

NO

YES

F. Manually depress actuator. Continuity exists between switch terminal 1 and switch terminal 2.

NO

Inoperative start switch. Replace switch.

YES

Motor switch checks OK.

## WARNING

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

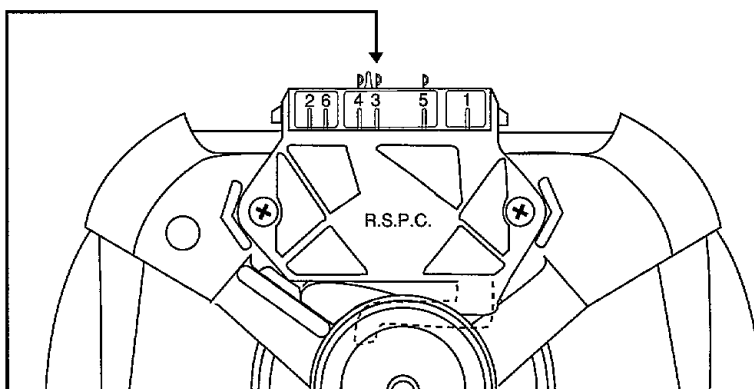
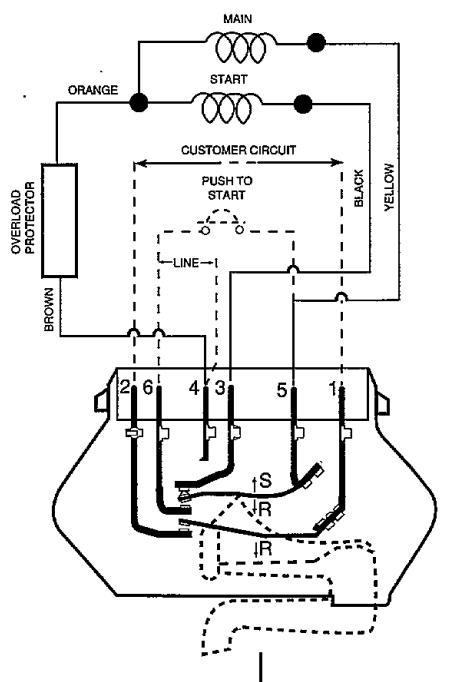
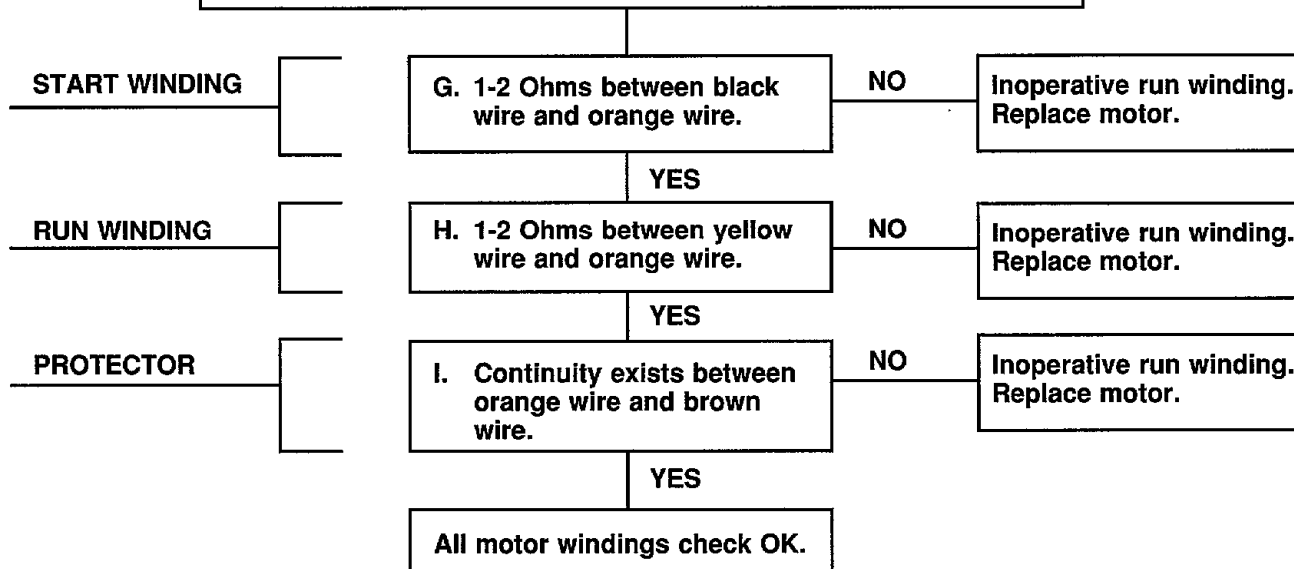
- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly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

W001

d. Emerson Motor Windings. (Refer to SECTION VI for Internal Wiring of the Dryer Motor Switch.)

## WARNING

Disconnect electric power to dryer before performing any of the following steps or replacing inoperative motor.



SWITCH SHOWN IN START POSITION

D166SE3B

## ▲WARNING

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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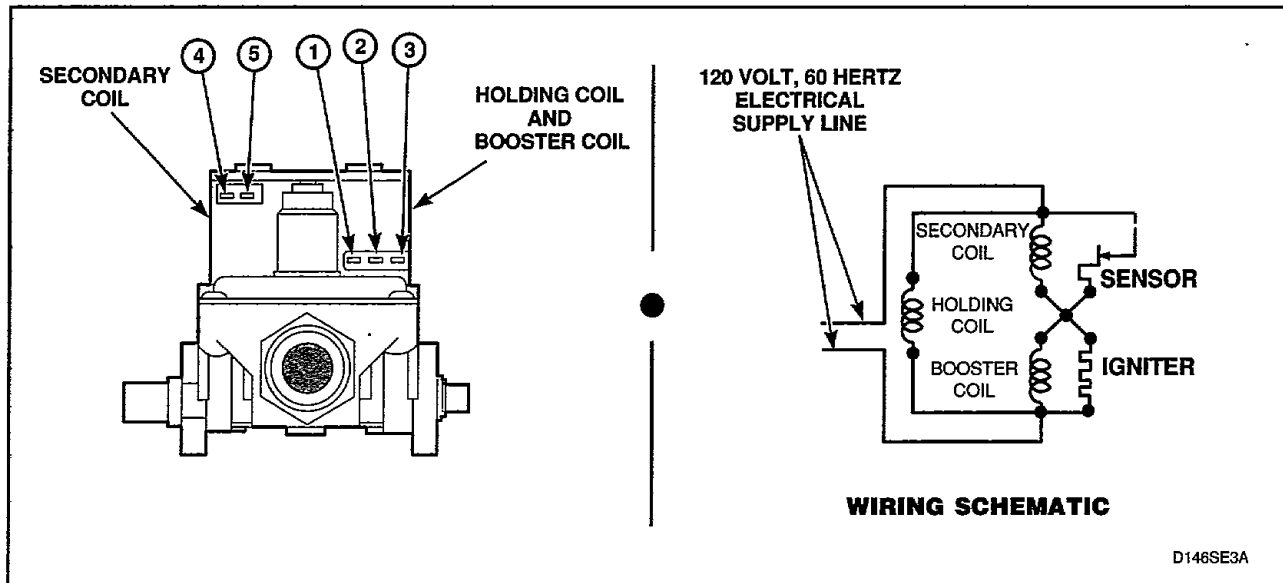


Figure 51

## 45. BURNER SYSTEM OPERATION (Gas Models - Figure 51)

### Components

This burner has four basic components: A silicon carbide (glow bar) igniter, burner tube, flame 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.

### Pre-Ignition Circuits

When the dryer thermostat calls for heat, circuits are completed through the holding coil, flame 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 flame sensor, passes through the igniter causing it to get hot.

### Burner Circuit

In approximately 30 seconds, the igniter attains ignition temperature and the flame 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 flame sensor contacts to remain open.

## 46. IGNITION SYSTEM FEATURES (Gas Models - Figure 51)

**MOMENTARY POWER INTERRUPTION:** Upon resumption of power, flame 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 flame sensor contacts do reclose, the secondary valve will close, and the burner system will be in the normal pre-ignition circuit.

**FLAME FAILURE:** In case of flame failure, the flame 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.

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

## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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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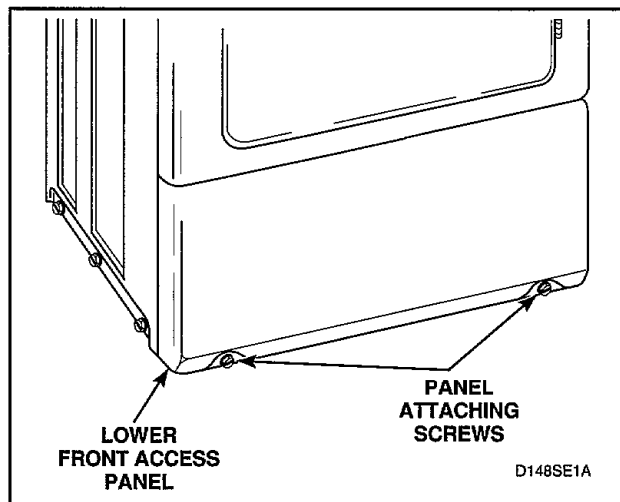


Figure 52

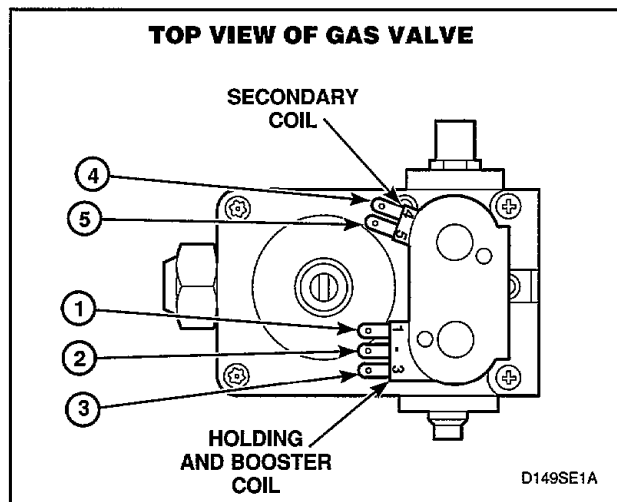


Figure 53

### 47. ELECTRICAL CIRCUIT TO IGNITION SYSTEM (Gas Models)

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 52*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Close gas shut-off valve, *Figure 49*.
- Remove valve wire harness disconnect block from the holding and booster coil, *Figure 51*.
- Plug dryer power cord into wall receptacle, start the dryer in a heat setting (refer to the Operating Instructions supplied with dryer).
- 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, *Figure 51*. Meter should register line voltage in all Fabric settings, except FLUFF which should read "zero" VAC.
- If meter does not read line voltage in step "f", check motor switch, thermostats, fabric switch, accumulator, or timer.

### 48. GAS VALVE COILS (Gas Models)

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 52*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Close gas shut-off valve, *Figure 49*.
- Remove disconnect blocks from gas valve coils, *Figure 51*.
- Set test meter to read OHMS and put meter probes to terminals as follows:
  - (1) Holding Coil (see *Figure 53*)  
Terminals 1 and 2 - Meter should read  $1365 \pm 25$  Ohms.
  - (2) Booster Coil (see *Figure 53*)  
Terminals 1 and 3 - Meter should read  $560 \pm 25$  Ohms.
  - (3) Secondary Coil (see *Figure 53*)  
Terminals 4 and 5 - Meter should read  $1220 \pm 50$  Ohms.

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

## ▲WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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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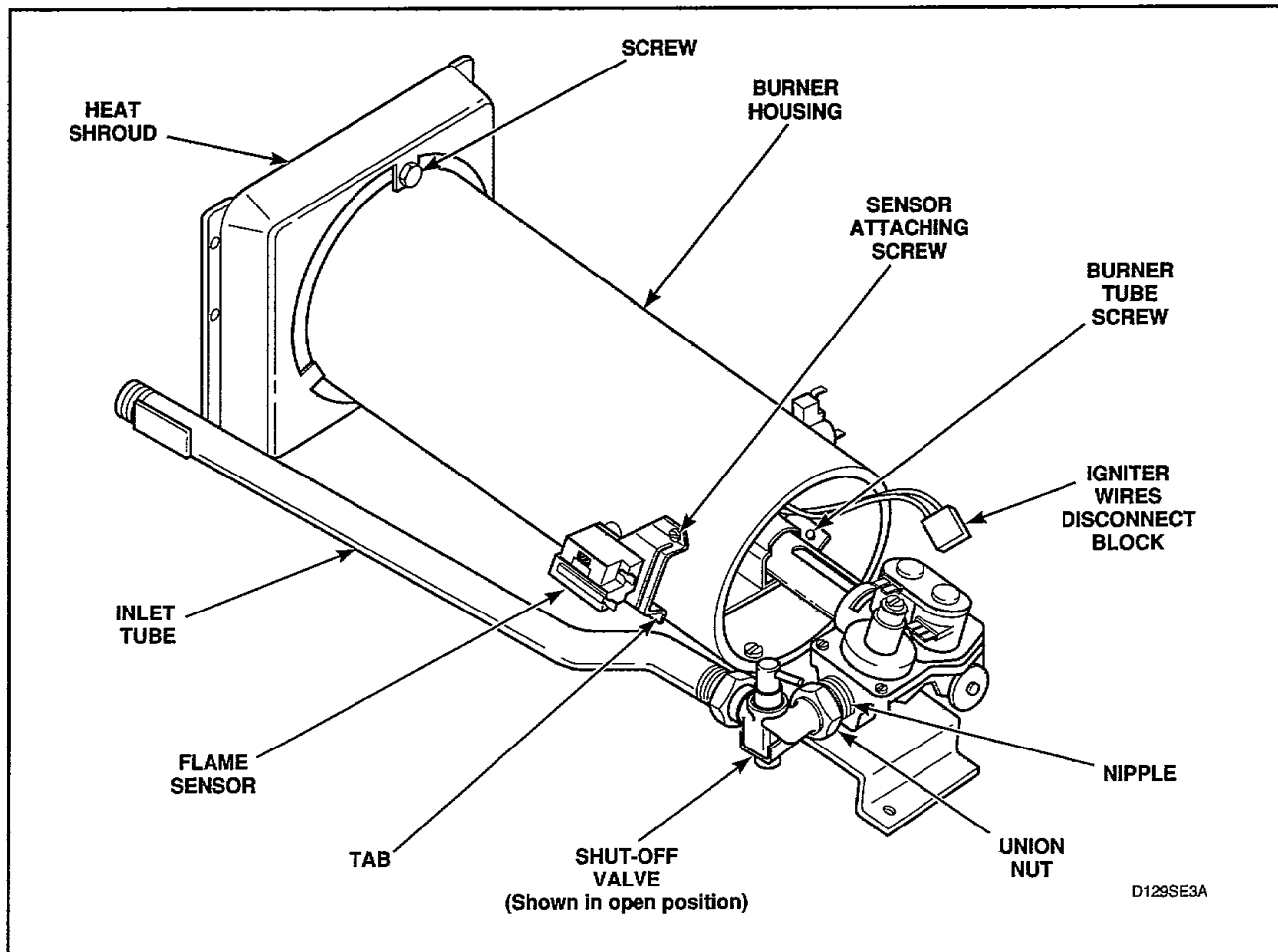


Figure 54

### 49. SENSOR (Gas Models)

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 52*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Close gas shut-off valve, *Figure 54*.
- Remove wires from sensor terminals, *Figure 54*.
- 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.



## WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### 50. IGNITER (Gas Models)

Gas dryers are manufactured with different igniters. These igniters are tested in the same way, but have different resistance readings.

- While supporting the lower access panel, remove two screws from bottom edge of lower access panel.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect igniter wires at disconnect block.
- Set test meter to read Ohms and put meter probes on terminals of igniter wires.
- Norton Igniter** — meter should read between 45-200 OHMS, *Figure 55*.
- 60868 Igniter** — meter should read between 75-800 OHMS, *Figure 55*.

If meter does not read appropriate OHMS, then replace the igniter.

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

**NOTE:** Test procedures in *paragraph 50, 51 and 52* can be performed on workbench if gas valve, igniter, burner tube and burner housing have been removed from dryer.

### 51. DOOR SWITCH

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 52*.

- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 10*. Swing front panel away from dryer to disengage hold-down clips and guide lugs from cabinet top.
- Disconnect wires from door switch, *Figure 11*.

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

- Set meter or read Ohms and apply meter probes on switch terminals 1 and 3 with door closed. You should get "zero" reading.
- Apply probes to terminals 1 and 2 with door closed. The meter should read "infinite".
- Open door. Meter should read "infinite" between 1 and 3 and "zero" between 1 and 2.

### 52. PUSH-TO-START SWITCH

- Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top, *Figure 5*.
- Unplug dryer from electrical supply and disconnect wires from switch terminals.
- Set Volt-Ohm meter on OHMS scale and calibrate at appropriate scale.
- Place meter probes on switch terminals. You should see an "infinite" reading on the meter.
- With probes attached to switch, press the start switch button. You should read "0" Ohms.

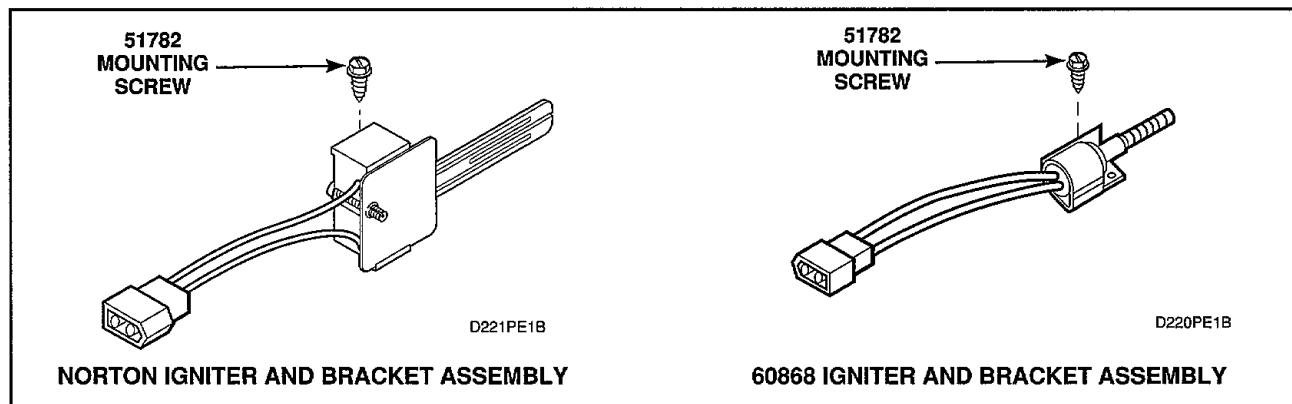


Figure 55

## ▲WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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.

W001

### 53. TEMPERATURE SWITCH

- Remove two control panel attaching screws and lay panel face down on protective padding on cabinet top, *Figure 5*.
- Disconnect all wires from temperature switch.

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

- Set test meter to read OHMS and apply meter leads to terminals:

- |              |   |                            |
|--------------|---|----------------------------|
| (1) L1 and 2 | } | "zero" reading in NORMAL   |
| (2) L1 and 2 |   |                            |
| (3) L1 and 1 | } | "zero" reading in DELICATE |
| L1 and 2     |   |                            |

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

- Manually rotate timer out of "OFF" position and into cycle.
- Set test meter to read OHMS. The following readings should be found:
  - Motor circuit test - L1 and M = "zero" Ohms (closed)
  - Heat circuit test - L1 and H = "zero" Ohms (closed)
  - Timer motor test - L1 and N = approximately 1100 Ohms or apply live power to timer motor terminals and motor should run.

**NOTE:** Timer Motor Resistance

120 Volt, 60 Hz. 2,460 - 3,100 Ohms

- Rotate timer to "cooldown" (5 minutes before "OFF"). "Infinite" (open) reading should be found between L1 and H.
- 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.

### 54. TIMER CONTACTS (Nonmetered Models)

- Remove four screws holding timer and plate to timer case, *Figure 6*.
- Pull timer plate out of timer case as far as wires will permit, *Figure 6*.
- Disconnect wires from timer, *Figure 56*, except timer motor wires.

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

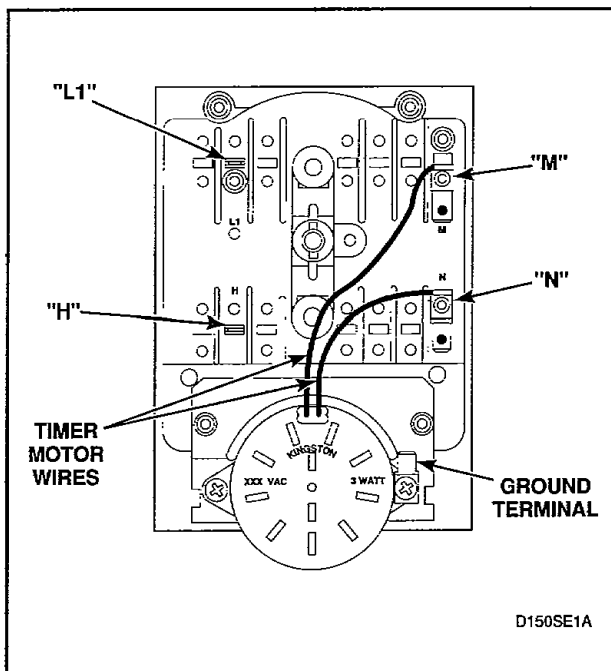


Figure 56

## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **55. ACCUMULATOR AND TIMING MOTOR (Metered Models - Figure 57)**

- Remove service door, accumulator and timing motor assembly, paragraph 10.
- Remove wires from one side of each switch.

**NOTE: Refer to appropriate wiring diagram when rewiring switches.**

- Manually advance timing cam to disengage it from ratchet wheel.
- Set meter to read OHMS and apply leads on terminals of each switch. You should read the following:
  - Switch A - "zero" Ohms (closed)
  - Switch B - "zero" Ohms (closed)

- Manually advance timing cam until it engages with ratchet wheel and the first "click" is heard. Switch B should now read "infinite" (open).
- Continue to rotate timing cam until second "click" is heard. Switch B should remain open. Switch A should read "infinite" (open).

- Timing motor**  
Apply live power to timing motor leads. Timing motor should advance timing cam.

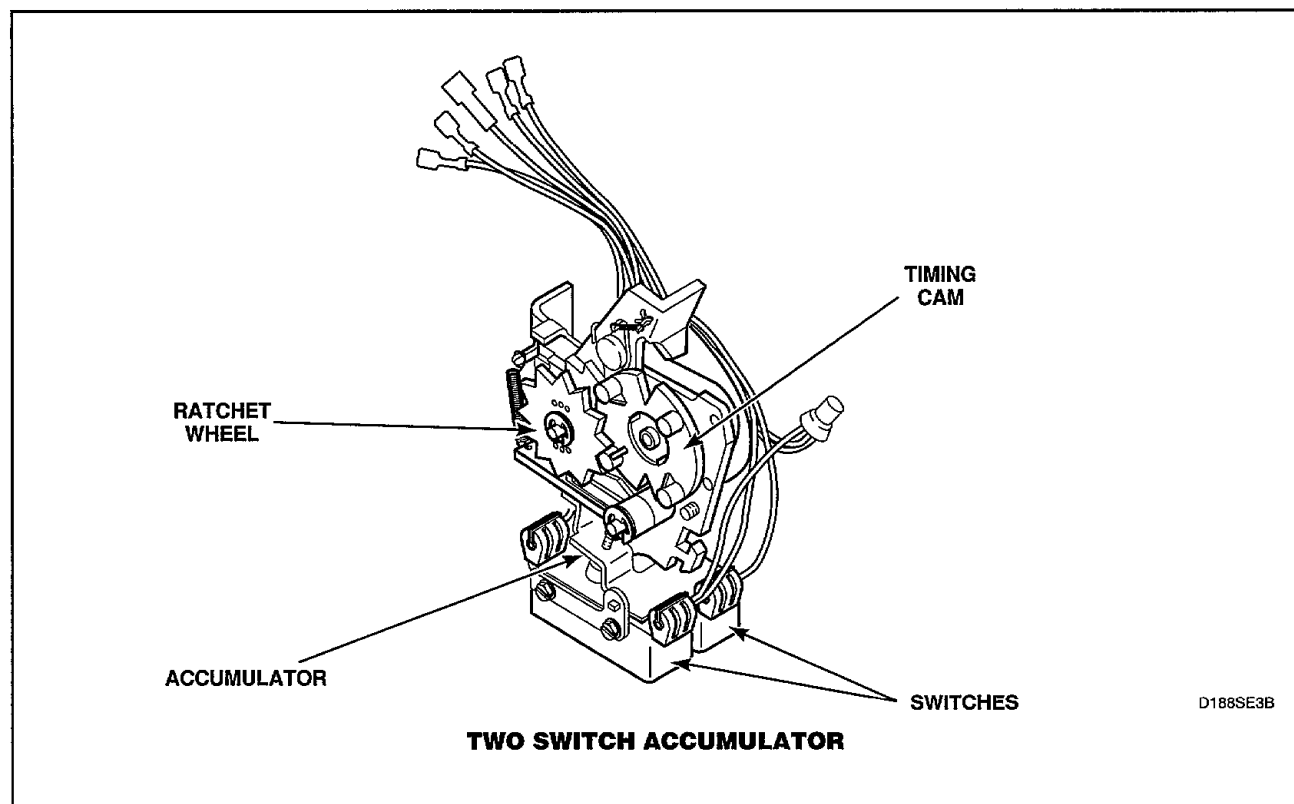


Figure 57

## **⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

### **56. CYCLING OR LIMIT THERMOSTAT**

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 52*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect wires from thermostat, *Figure 30* or *Figure 31*.

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

#### **Cycling Thermostat (S.P.S.T.) or Limit Thermostat**

- Set meter to read OHMS.
- Apply meter probes to the thermostat terminals.
- Meter should read "infinite".

### **57. THERMOSTAT HEATER**

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 52*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect wires from thermostat heater, *Figure 31*.

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

- Set meter to read OHMS. Apply meter probes to the thermostat heater terminals. Meter should read as follows: (Cold Ohms)

120 Volt, 60 Hz. 1,600 Ohms  $\pm$  160 Ohms.

### **58. THERMAL FUSE (Electric Models)**

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 52*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect wires from thermal fuse, *Figure 30*.

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

- 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.

### **59. HEATER ASSEMBLY (Electric Models)**

- While supporting the lower access panel, remove two screws from bottom edge of lower front access panel, *Figure 52*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect wires from heater assembly, *Figure 30*.

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

- Set meter to read OHMS. Apply meter probes to the heater assembly terminals. Meter should read as follows: (Cold Ohms)

Color	Voltage/Hz.	Resistance Reading
Red	240 V 60 Hz.	10.39 $\pm$ .31 Ohms cold.
White	208 V 60 Hz.	8.2 $\pm$ .5 Ohms cold

# SECTION V

## Service Helps

### ⚠ WARNING

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

**IMPORTANT:** Refer to appropriate Wiring Diagram for aid in testing dryer components.

### 60. MOTOR DOES NOT RUN

POSSIBLE CAUSE	TO CORRECT
Electrical power off, fuse blown, or power cord not plugged in.	Has the laundry room fuse(s) blown or become loosened, or are circuit breakers open? The dryer itself does not have an electrical fuse.
Loading door not closed or inoperative door switch.	Close door or test switch and replace if inoperative.
Timer improperly set (Nonmetered models).	Reset timer.
Inoperative timer (Nonmetered models).	Test timer and replace if inoperative.
Inoperative accumulator (Metered models).	Test accumulator and replace if inoperative.
Accumulator not being activated (Metered Models).	Install slide extension. Make sure accumulator mounting bracket is 90 degrees to the service door.
Start circuit not completed.	Press start switch button, or test switch and replace if inoperative.
Motor starting functions inoperative. No Start; or Motor hums only.	Refer to SECTION IV to check start switch and start windings.
Motor is dead, won't run.	Refer to SECTION IV to check start switch and start windings.
Motor overload protector has cycled.	Wait two or three minutes for overload protector to reset. If protector cycles repeatedly, refer to <i>paragraph 61</i> .
Motor centrifugal switch sticky or plugged with lint.	Remove dust or lint and spray with "SLYDE", No. 131P4, to clean and lubricate.
Bind in motor bearings.	Remove belt and determine if motor shaft will spin. Replace motor if shaft is locked up.
Loose motor wire harness connection block.	Firmly press connection block onto motor switch.
Broken, loose, or incorrect wiring.	Refer to appropriate wiring diagram.
Power cord is miswired.	Refer to appropriate wiring diagram for the correct wiring.

**⚠ WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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.**

W001

## 61. DRYER STOPS IN CYCLE; QUILTS AFTER A COUPLE LOADS; HAS A BURNING SMELL; CYCLES ON MOTOR THERMAL OVERLOAD PROTECTOR.

POSSIBLE CAUSE	TO CORRECT
Incorrect Voltage.	Refer to nameplate for correct 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. Maximum load: Dryer cylinder one half full of wet clothes.
Clothes cylinder is binding.	Check cylinder for binding and "out of round" condition. Also check front and rear bulkheads for warping. Check support rollers for binding. Check cylinder seals and glides for wear or damage. Check for clothes lodged between cylinder baffle and bulkhead.
Broken, loose or incorrect wiring.	Refer to appropriate wiring diagram.
Motor switch functions inoperative. Short in motor winding.	Refer to SECTION IV to check switch and windings.
Belt not installed properly.	Refer to <i>Figure 34</i> for proper belt position.

## 62. MOTOR RUNS BUT CYLINDER DOES NOT TURN

POSSIBLE CAUSE	TO CORRECT
Motor drive pulley loose.	Tighten pulley.
Belt not installed on pulley.	Install belt, refer to Motor and Exhaust Assembly section.
Broken cylinder belt.	Replace belt.
Clothes cylinder is binding.	<ul style="list-style-type: none"> <li>• Check cylinder for binding and "out of round" condition.</li> <li>• Check front and rear bulkheads for warping.</li> <li>• Check cylinder rollers for binding.</li> <li>• Check cylinder seals and glides for wear or damage.</li> </ul>
Broken, weak or disconnected idler lever spring.	Replace or reconnect spring, refer to Motor and Exhaust Assembly section.
Belt routed on wrong side of idler lever.	Reroute belt, refer to Motor and Exhaust Assembly section.
Oil on cylinder.	Wipe oil from cylinder.
Belt is "inside out".	Reinstall belt with ribbed surface against cylinder.
Idler arm is binding.	<ul style="list-style-type: none"> <li>• Add grease between idler arm and motor mount.</li> <li>• Replace idler arm and bolt if needed.</li> </ul>
Dryer is overloaded.	Load dryer half full of laundry.
Wrong motor.	Refer to Parts manual for proper motor part number.
Wrong belt used on dryer.	<ul style="list-style-type: none"> <li>• Check belt part number against correct part number in the Parts manual.</li> <li>• Replace belt if needed.</li> </ul>
Bent idler arm.	Replace idler arm.

**▲WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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**63. MOTOR DOES NOT STOP**

POSSIBLE CAUSE	TO CORRECT
Motor switch rewired improperly.	Refer to appropriate wiring diagram and correct wiring.
Motor centrifugal switch sticky or plugged with lint.	Remove dust or lint and spray with "SLYDE", No. 131P4, to clean and lubricate.
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.

**64. 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 before servicing.**
- **Never start the dryer 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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**65. HEATER ASSEMBLY DOES NOT HEAT OR BURNER DOES NOT IGNITE.**

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	See INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.
Use of plastic or thin foil exhaust duct.	Replace with solid or rigid flexible metal exhaust duct.
Blown fuse or tripped circuit breaker.	Has the laundry room fuse(s) blown or become loosened, or are circuit breakers open? The dryer itself does not have an electrical fuse.
Temperature selector switch set at FLUFF, or inoperative.	Reset switch, or test switch and replace if inoperative.
Timer improperly set.	Reset timer. Try another cycle.
Inoperative limit thermostat.	Test thermostat and replace if inoperative.
Electric Models: Inoperative heater assembly.	Test heater assembly. Replace heater assembly if cold Ohms do not read between 8 and 10.5 Ohms.
Gas Models: Insufficient gas supply.	Check gas shut-off valve in dryer and main gas line valve. 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, refer to <i>paragraph 48</i> .
Gas Models: Inoperative flame sensor.	Test flame sensor and replace if inoperative. Refer to <i>paragraph 49</i> .
Gas Models: Inoperative igniter.	Test igniter and replace if inoperative. Refer to <i>paragraph 50</i> .
Gas Models: Harness not properly connected to gas controls.	Check harness connections to gas valve coils, sensor and main harness. Reconnect as required.
Gas Models: Restricted gas flow in gas orifice.	Clean out gas orifice.
Electric Models: Inoperative thermal fuse.	Test thermal fuse and replace if inoperative.
Inoperative cycling thermostat.	Test thermostat and replace if inoperative.
Inoperative timer (Nonmetered models).	Test timer and replace if inoperative.
Inoperative accumulator (Metered models).	Test accumulator 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 before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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**66. IGNITER DOES NOT GLOW (gas supply sufficient) — GAS MODELS**

POSSIBLE CAUSE	TO CORRECT
No power to power leads on valve.	Check electrical circuit, <i>paragraph 47</i> .
Flame sensor failed with contacts open.	Replace flame sensor.
Igniter broken or open.	Replace igniter.

**67. BURNER IGNITES AND GOES OUT REPEATEDLY — GAS MODELS**

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system. Weather hood flapper restricted.	See INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.
Burner heat not holding flame sensor contacts open.	Replace flame sensor, or correct gas supply problem.
Insufficient gas supply.	Check gas supply and pressure. Is gas shut-off valve turned on?
Cracked igniter.	Replace igniter and bracket.
Inoperative or intermittent gas valve coils.	Check and replace appropriate coil. Refer to <i>paragraph 48</i> .

**68. IGNITER GLOWS BUT BURNER DOES NOT IGNITE — GAS MODELS**

POSSIBLE CAUSE	TO CORRECT
Flame sensor failed in closed position.	Replace flame sensor.
Open secondary coil or holding coil.	Replace gas valve (in-warranty), or replace coils (out-of-warranty).
Insufficient gas supply.	Check gas supply and pressure. Is gas shut-off valve turned on?
Igniter and bracket installed improperly on burner bracket	Loosen screw and properly position igniter and tube assembly. on burner tube assembly.
Flame sensor installed improperly on burner housing.	Loosen screw and properly position the flame sensor on the burner housing.

**▲WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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**69. HEATER ASSEMBLY OR BURNER SHUTS OFF PREMATURELY**

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system. Weather hood flapper restricted. (Repeatedly cycling on limit thermostat.)	See INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.
Gas Models: Insufficient gas supply.	Check gas shut-off valve in dryer and main gas line valve. 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" supplied in gas burner conversion kit.
Gas Models: Improperly adjusted burner flame.	Adjust flame, <i>paragraph 43</i> .
Cycling off on limit thermostat.	Momentarily connect a jumper wire across thermostat terminals. If heater element heats or burner ignites when jumper wire is connected, refer to <i>paragraph 70</i> .
Gas models: Flame sensor contact closing prematurely. Burner flame improperly adjusted.	Replace flame sensor or adjust burner flame, <i>paragraph 43</i> .
Inoperative cycling thermostat.	Test thermostat and replace if inoperative.
Inoperative timer (Nonmetered models).	Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	Refer to appropriate wiring diagram.

**70. HEATER ASSEMBLY 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.
Use of plastic or thin foil exhaust duct.	Replace with solid or rigid flexible metal exhaust duct.
Clogged lint filter.	Clean lint filter.
Lint in internal dryer ductwork.	Disassemble dryer ductwork and clean.
Lint or other obstruction 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, <i>paragraph 27</i> .
Air leak around loading door. (Door not sealing due to damaged seal or inoperative door catch.)	Replace seal or catch.
Air leak at blower seal.	Check and replace seal if necessary.
Air leak at cylinder seal(s).	Check and replace seal(s) if necessary.

**WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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**71. HEATER ASSEMBLY OR BURNER DOES NOT SHUT OFF**

POSSIBLE CAUSE	TO CORRECT
Inoperative motor switch. (Timer must be in a heat setting.)	Test switch and replace if inoperative.
Motor does not stop.	Refer to <i>paragraph 63</i> .
Rewired improperly.	Refer to appropriate wiring diagram and correct wiring.
Heater assembly shorted.	Remove heater assembly and check for short.

**72. CLOTHES DO NOT DRY**

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system. Weather hood flapper restricted.	See INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.
Heater assembly does not heat or burner does not ignite.	Refer to <i>paragraph 65</i> .
Too much water in articles being dried.	Remove excess water.
Clothes load too large.	Remove part of load. A normal washer load is normal dryer load. Maximum load: Dryer cylinder one half full of wet clothes.
Excessive lint on lint filter.	Clean lint filter.
Load too small.	Add one or two bath towels to load.
Heat selector switch set on FLUFF or inoperative	Reset switch, or test and replace the switch if inoperative.
Improper or inadequate exhaust system.	See INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.
Heater assembly or burner shuts off prematurely.	Refer to <i>paragraph 69</i> .
Gas Models: Gas line pressure too high or too low.	If Natural Gas line pressure to dryer exceeds 8 inch water column pressure, or is lower than 4 inch water column, ask Gas Company to correct.
Improper belt installation (Low RPM). Is belt connected on motor shaft?	Check for proper belt installation, <i>Figure 31</i> .

**⚠WARNING**

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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**73. CLOTHES ARE TOO HOT WHEN REMOVED FROM DRYER**

<b>POSSIBLE CAUSE</b>	<b>TO CORRECT</b>
Improper or inadequate exhaust system.	Refer to INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.
Clothes are removed from dryer before cycle has cool-	Allow the dryer to complete the cycle through the completed. 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 timer (Nonmetered models).	Test timer and replace if inoperative.
Air leak around loading door. (Door not sealing due to damaged seal or inoperative door catch.)	Replace seal or catch.
Air leak at blower seal.	Check and replace seal if necessary.
Air leak at cylinder seal(s).	Check and replace seal(s) if necessary.

# SECTION VI

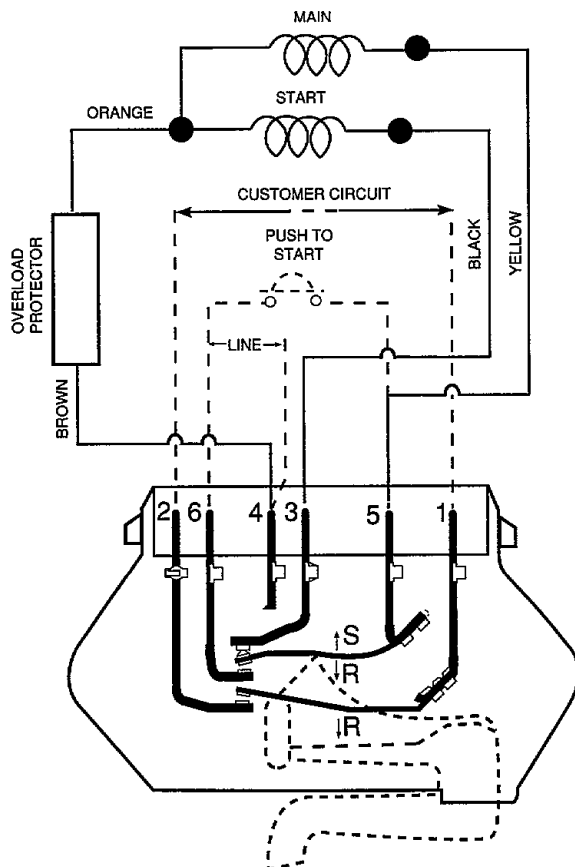
## Internal Wiring of Dryer Motor Switch

### ⚠ WARNING

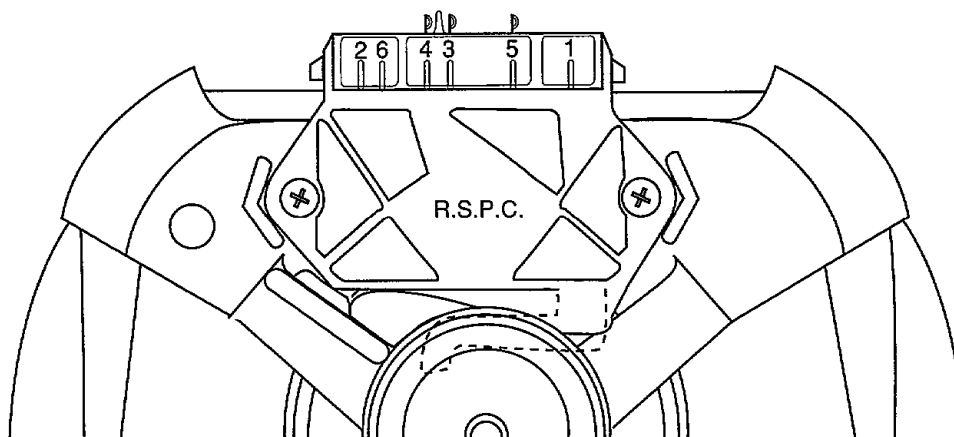
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer with any guards/panels removed.
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SWITCH SHOWN IN START POSITION



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## SECTION VII

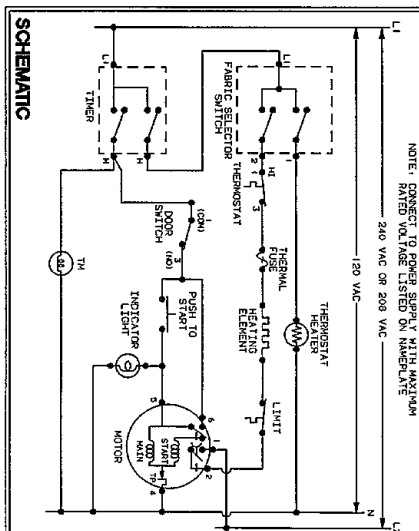
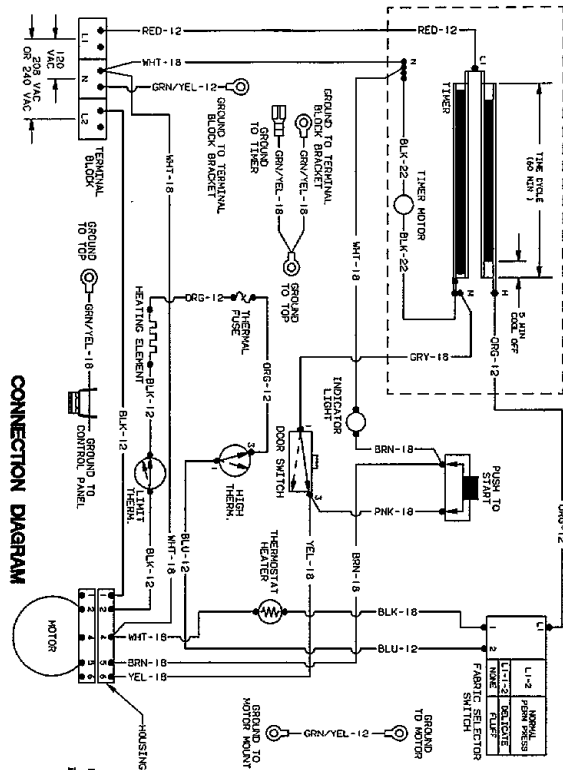
### Wiring Diagrams

## ⚠ WARNING

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

- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer with any guards/panels removed.**
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NOTE: CONNECT TO POWER SUPPLY WITH MAXIMUM RATED VOLTAGE LISTED ON NAMEPLATE

**A WARNING**

THIS MACHINE MANUFACTURED  
UNDER ONE OR MORE OF THE  
FOLLOWING PATENTS,  
UNITED STATES NO. 5,113,652  
CANADIAN NO.  
OTHER PATENTS PENDING

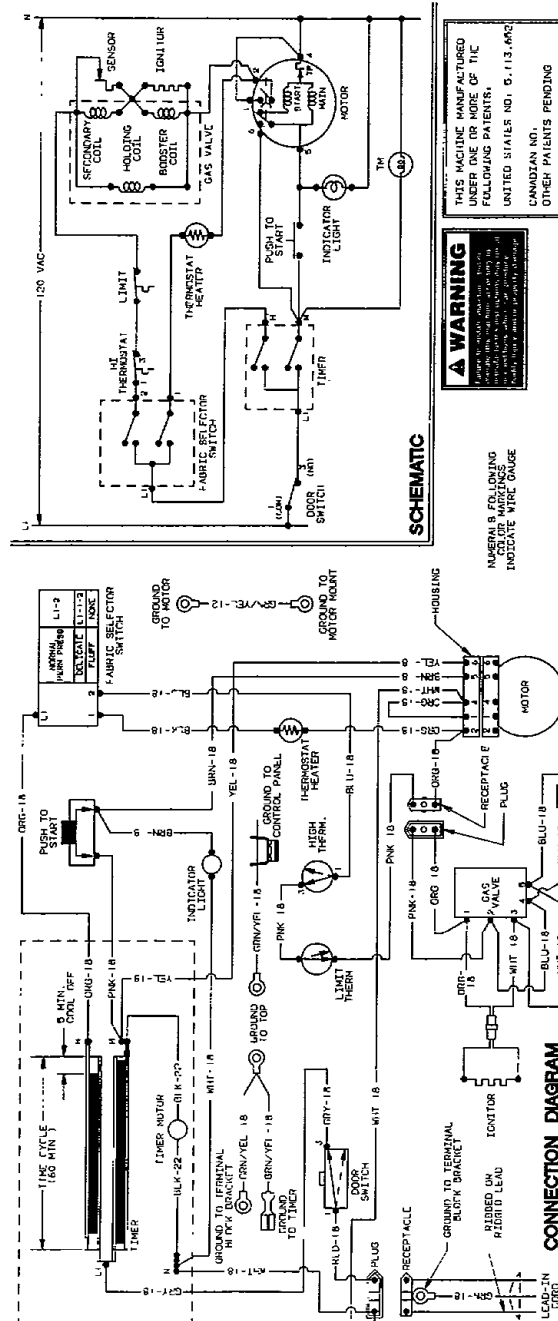
## Models DDE007 and ZE2007

## ⚠ WARNING

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

- Disconnect electric power to the dryer before servicing.
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- Never start the dryer 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.

W001



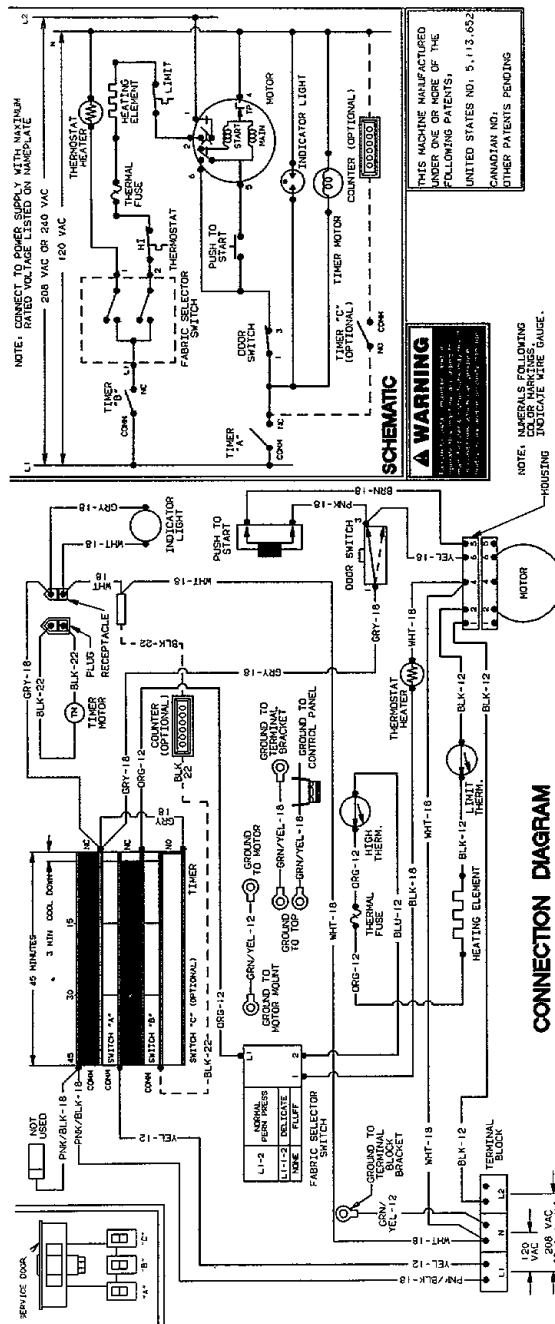
Models DDG009 and ZG2009

## WARNING

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

- Disconnect electric power to the dryer before servicing.
- Close gas shut-off valve to gas dryer before servicing.
- Never start the dryer 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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Model ZE2107



- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start the dryer 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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