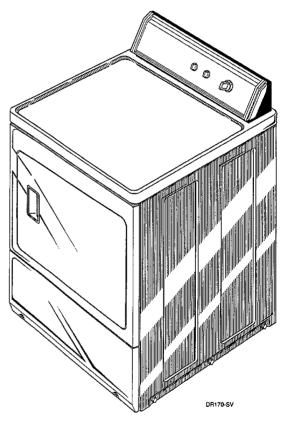
Service Manual for

Automatic Dryers

(Model Numbers are listed on Page 5)



July 1993 Part No. 502009

A 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

A 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

A 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

ADANGER — Immediate hazards which WILL result in serious injury or death.

A DANGER

AWARNING — Hazards or unsafe practices which COULD result in serious injury or death.

A WARNING

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

A CAUTION

W009

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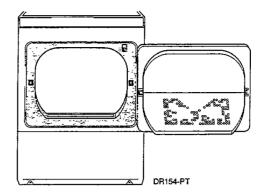
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Namplate Location

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.



Model Identification

Information in this manual is applicable to these dryer models:

Dryer Models	Timer Models	Electronic Models	Cylinder	Electric Heat	Gas Heat
KEM377-1709	Х		Painted	X	
KGM379-1109	х		Painted		X
AEM477-4562	Х		Painted	Х	
ZEM477-3000	х		Painted	Х	
AGM479-3000	Х		Painted		Х
ZGM479-3000	Х		Painted		Х
ZGM479-3013	Х		Painted		X
AEM497-3000	Х		Painted	Х	
AEM497-3300	Х		Painted	Х	
KED497-4350	х		Painted	Х	
KEM497-1702	х		Painted	Х	
AGM499-3000	Х		Painted		Х
AGM499-3013	Х		Painted		×
AGM499-3080	Х		Painted		X
KGD499-3058	Х		Painted		X
KGM499-1102	Х		Painted		Х
KEM677-1709	Х		Painted	Х	
KGM679-1109	Х		Painted		X
KEE997-1702		Х	Painted	х	
KGE999-1102		Х	Painted		X

SECTION I Grounding

-AWARNING -

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

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

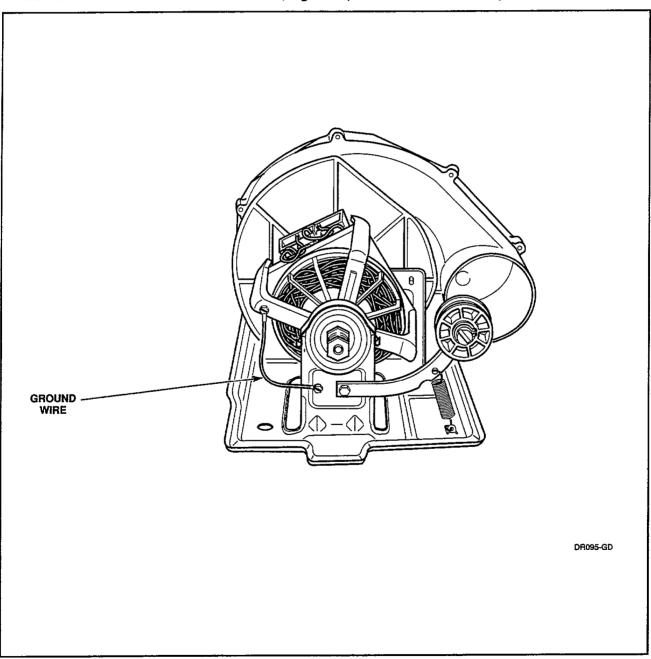


Figure 1

AWARNING -

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

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

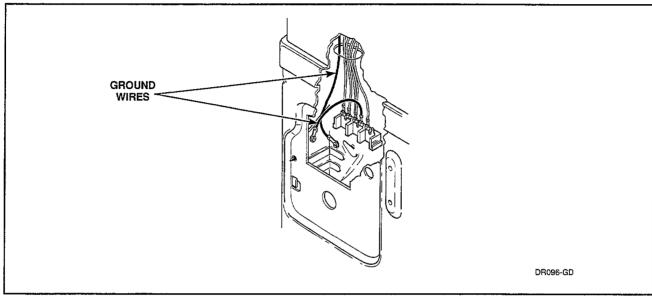


Figure 2

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

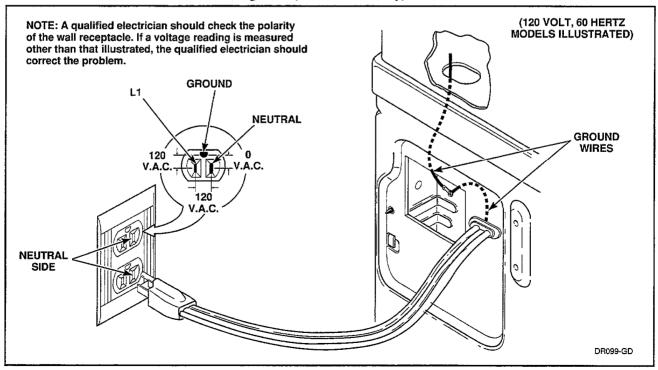


Figure 3

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

4. FROM REAR BULKHEAD TO TIMER MOUNTING BRACKET TO DRYER CABINET TOP. TIMER MOUNTING BRACKET TO GRAPHIC PANEL (Mechanical Timer Model Dryers — Figure 4).

FROM REAR BULKHEAD TO DRYER CABINET TOP TO ELECTRONIC CONTROL TO GRAPHIC PANEL (Electronic Control Model Dryers — Figure 4).

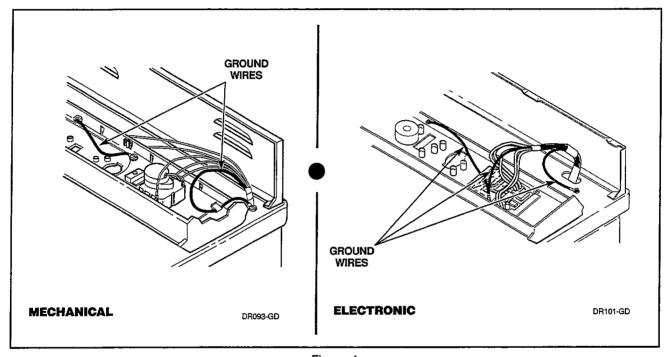


Figure 4

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.

AWARNING -

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

5. CONTROL HOOD ASSEMBLY (Figure 5, 6, 7 or 8)

- Remove six screws (three top and three bottom) holding the hood assembly to the control hood rear panel and cabinet top.
- Disconnect the wires from the component parts and carefully remove the components from the control hood assembly.

NOTE: Refer to appropriate wiring diagram when rewiring component parts.

6. CONTROL HOOD END CAPS

Remove end caps by carefully prying caps out of slots in ends of hood, *Figure 5, 6, 7, or 8*.

7. ELECTRONIC CONTROL (Refer to Figure 5)

IMPORTANT When removing or installing an electornic control, handle the control by the edges, or the control could become damaged.

- Remove six screws (three on top and three at lower front) holding the hood assembly to the control hood rear panel and cabinet top.
- Disconnect wires from the electronic control, carefully remove control from control hood assembly.

NOTE: Refer to the appropriate wiring diagram when rewiring the electronic control.

8. **TIMER** (Refer to *Figure 6, 7 or 8* for timer removal)

NOTE: Refer to appropriate wiring diagram when rewiring timer.

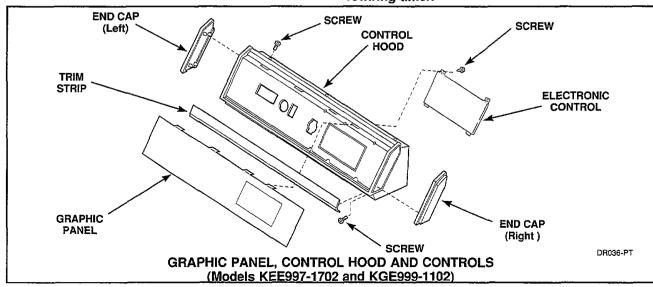


Figure 5

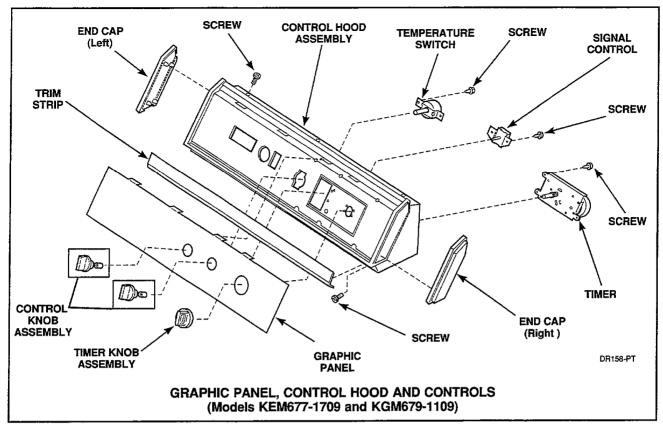


Figure 6

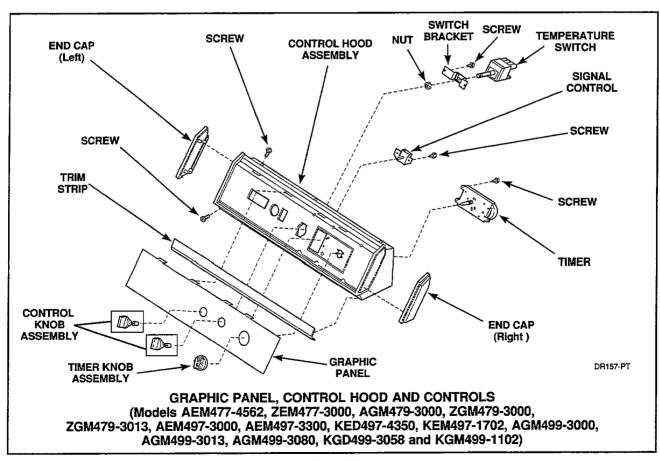


Figure 7

AWARNING -

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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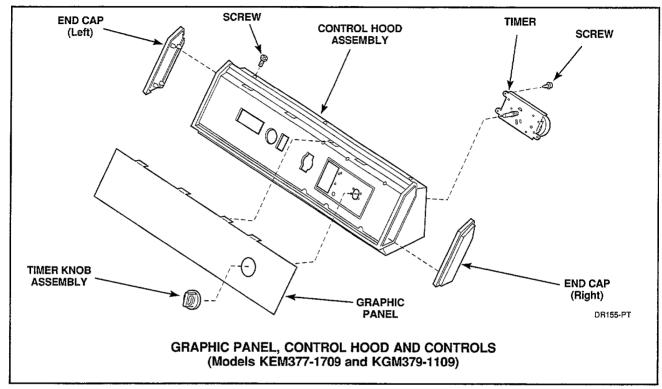


Figure 8

9. TEMPERATURE SWITCH (Refer to *Figure 6 or 7* for switch removal)

NOTE: Refer to appropriate wiring diagram when rewiring switch.

10. SIGNAL CONTROL (Refer to *Figure 6 or 7* for signal control removal)

NOTE: Refer to appropriate wiring diagram when rewiring signal control.

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

11. LINT FILTER (Figure 9)

- a. Open loading door.
- b. Lift filter out of air duct.

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

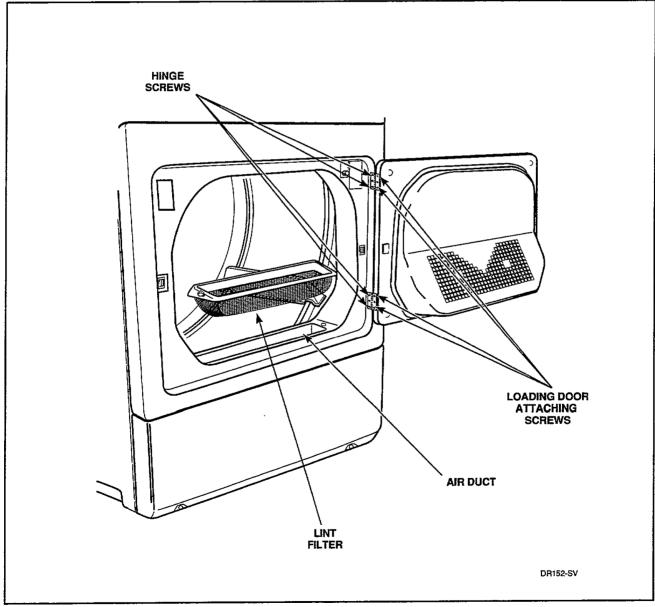


Figure 9

AWARNING -

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

12. INNER AND OUTER DOOR PANELS AND DOOR PULL

- Remove four screws holding door assembly to hinges, Figure 9.
- b. Remove screw from door pull, *Figure 11*, and the remaining screws around the door perimeter and separate panels, *Figure 11*.

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

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

13. LOADING DOOR

- a. Open loading door.
- b. Remove screws holding loading door and hinges to front panel, *Figure 10.*

Reversing Door Procedure (Optional)

The door on your dryer is completely reversible. It can be hinged on either side for your convenience. The door consists of 16 screws; 11 around the door perimeter, four on the front panel and one in the recessed door pull. All screws are interchangeable except for the one in the recessed door pull.

The dryer is shipped from the factory with the door hinged on the right side. To hinge the door on the left side, proceed as follows:

 Support door and remove four screws holding hinges to front panel, Figure 10. Remove complete door assembly.

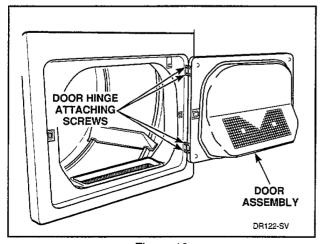


Figure 10

 Remove screw from door pull, Figure 11, and the remaining screws around the door perimeter. Set hinges aside at this time.

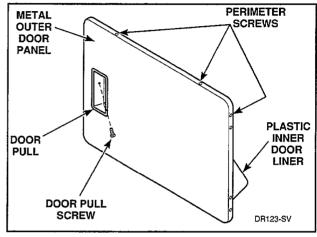


Figure 11

- Remove plastic inner door liner (with the door strike attached) from the metal door panel.
- d. Rotate the metal outer door panel 180 degrees.
- e. Remove door strike from door liner, *Figure 12*, and reinstall it on opposite side.

NOTE: Door strike must be located on the same side of door as the door pull. Once the door strike is in place, position the inner door liner into the outer door panel.

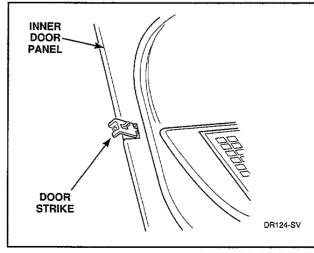


Figure 12

(continued)

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

f. Reinstall the two hinges on the side of door opposite of door pull and door strike.

NOTE: Screw the hinges onto door with the hinge pin facing the front of the door, *Figure 13.*

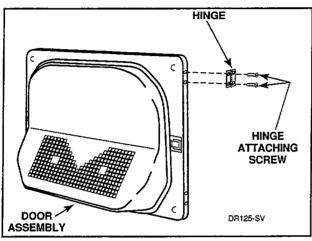


Figure 13

- g. Reinstall door pull screw and the remaining screws around the door perimeter.
- h. Remove plastic plugs (or screws) from left side of the door opening of the dryer front panel and place them into holes on right side, *Figure 14.*

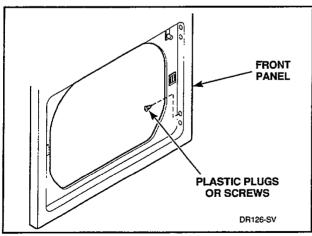


Figure 14

i. While supporting door assembly, secure hinges to front panel using the four remaining screws, *Figure 15*. Tighten all screws firmly.

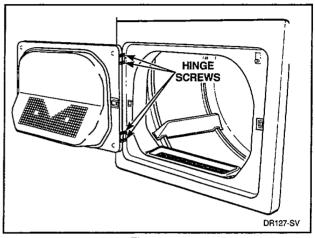


Figure 15

14. DOOR STRIKE

- a. Open loading door.
- b. Remove screw holding door strike and bracket to loading door, *Figure 16*, and remove strike and bracket.

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

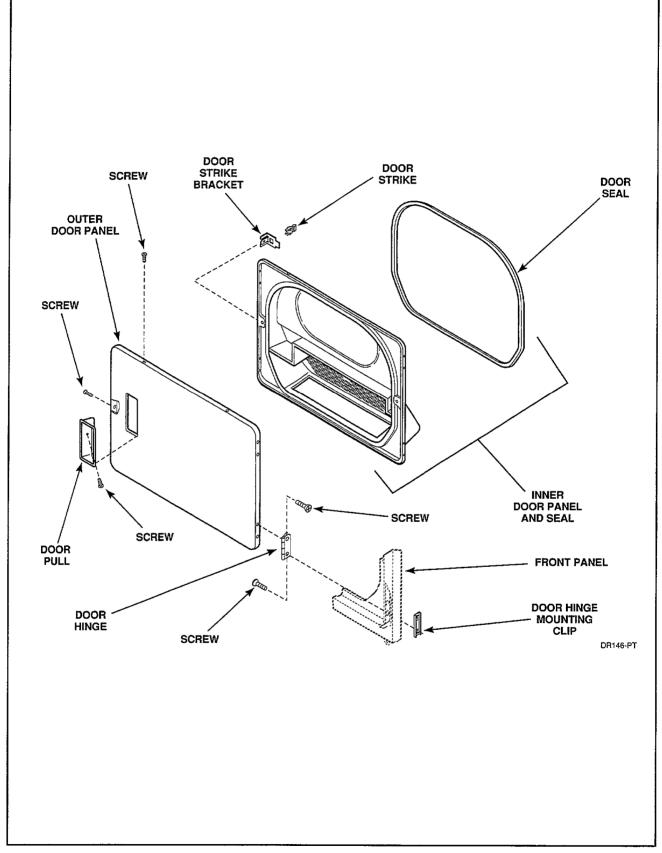


Figure 16

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

15. DOOR SEAL

- a. Open loading door.
- b. Grasp either end of door seal at bottom of door and remove seal from tabs on inner door panel, *Figure 17.*

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 17*, and the split in the seal is at the bottom of the door.

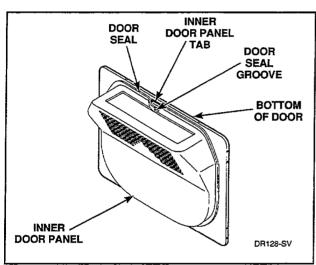


Figure 17

16. FRONT PANEL AND PANEL SEAL

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 19.
- 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 side panels, *Figure 25*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Remove front panel seal from flange around inside of door opening, *Figure 19*.

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

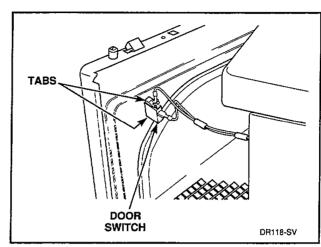


Figure 18

17. DOOR SWITCH

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 19.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Remove two screws holding tabs on front panel to dryer side panels, Figure 25. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Depress tabs on top and bottom of switch and push out of front panel, *Figure 18.*

18. DOOR CATCH

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 19.
- 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 side panels, Figure 25. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

 e. Depress tabs on top and bottom of catch and push out of front panel, Figure 19.

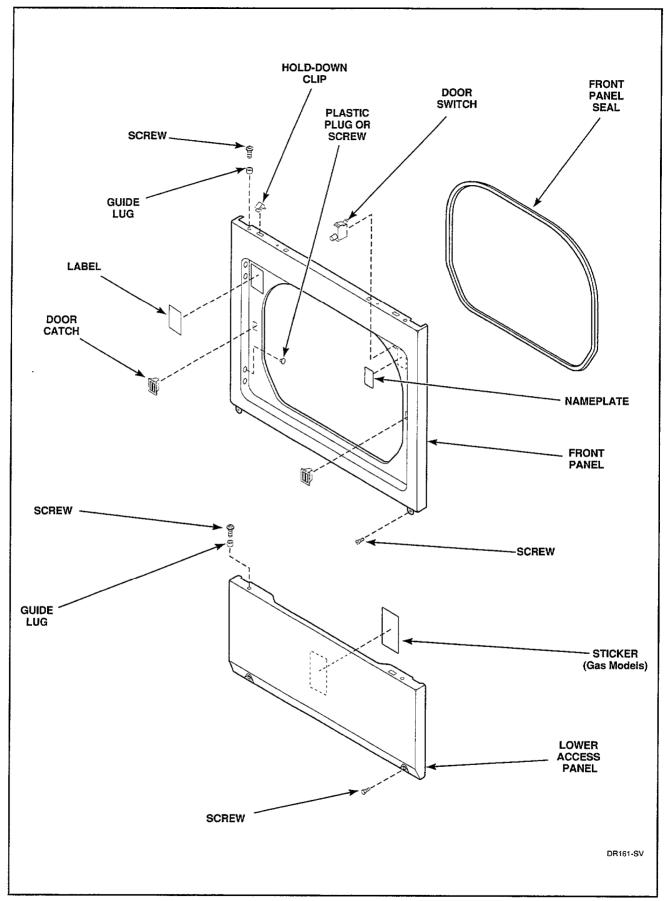


Figure 19

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

19. DOOR HINGE

- a. Open loading door and, while supporting door, remove four screws holding door assembly and hinges to front panel. *Figure 20*.
- b. Remove four screws holding hinges to loading door, Figure 20.

20. HOLD-DOWN CLIPS AND GUIDE LUGS

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 19*.
- 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 side panels, *Figure 25*. Swing bottom edge of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

- e. Compress hold-down clips and remove from slot in top flange of front panel.
- Remove four screws holding four guide lugs to access panel or front panel, Figure 19.

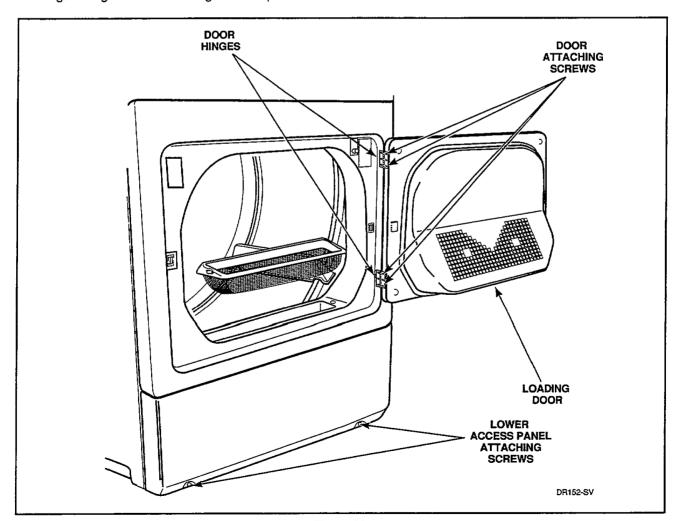


Figure 20

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

21. 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 access panel, *Figure 20*.
- (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 21*.

- (4) Disconnect gas shut-off valve from gas valve at the union nut, Figure 21.
- (5) Remove two screws holding valve and mounting bracket to base, Figure 21.
- (6) Lift gas valve and mounting bracket from base, *Figure 21*.

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

b. Burner Tube, Igniter and Bracket

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

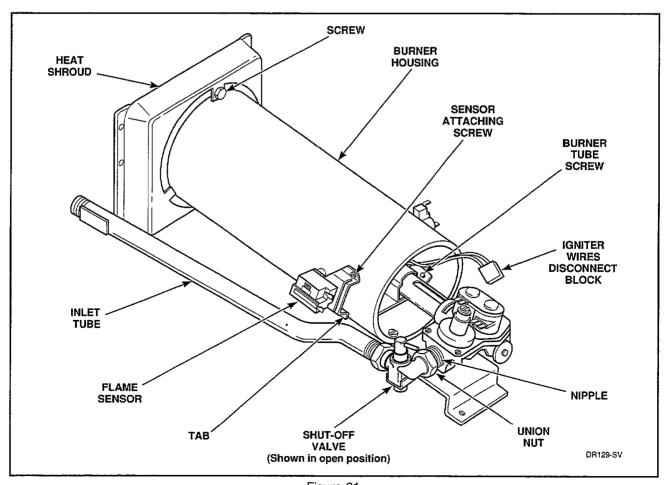


Figure 21

(continued)

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

- (1) Remove one screw from right side of burner housing holding burner tube in place, *Figure 23*.
- (2) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing, *Figure 21*.
- (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 22.

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

IMPORTANT: Handle igniter by grasping the white ceramic portion of 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 access panel, Figure 20.
- (2) Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- (3) Remove wires from sensor terminals, *Figure 21*.
- (4) Remove screw holding sensor to burner housing, Figure 21.

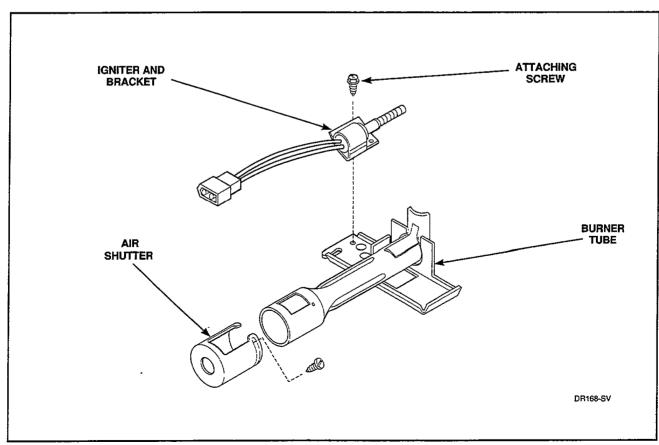


Figure 22

AWARNING -

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

22. BURNER HOUSING AND HEAT SHROUD

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel. Figure 20.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Disconnect igniter wires at disconnect blocks, sensor wires from flame sensor terminals, and wires from gas valve coils at the quick disconnect blocks, Figure 21.
- d. Remove screw from right side of burner housing, while holding burner tube in place, Figure 23.
- Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing, Figure 21.
- f. Carefully rotate burner tube and igniter counterclockwise so tab is at 8 o'clock position.
- g. 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.

- h. Remove screw holding burner housing to heat shroud. Figure 21.
- Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer, Figure 23.

 Remove two screws holding shroud to heater box and take shroud out through front of dryer.

23. LIMIT THERMOSTAT

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 20.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect wires and remove screws attaching limit thermostat to burner housing or element plate, Figure 23.

24. HEATING ELEMENT

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Remove two screws holding element and plate to heater box and pull element down and away from heater box, Figure 23.
- d. Disconnect wires from element and plate, Figure 23.
- e. Remove screws holding thermostat and thermal fuse to element and plate, *Figure 23*.

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

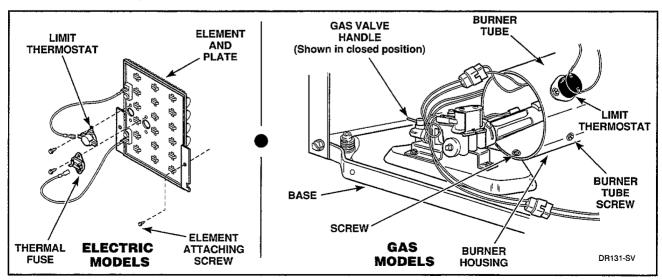


Figure 23

-AWARNING -

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

25. THERMISTER, THERMOSTAT OR THERMOSTAT AND HEATER

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- Disconnect wires and refer to Figure 24 for thermistor, thermostat or thermostat and heater removal.

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

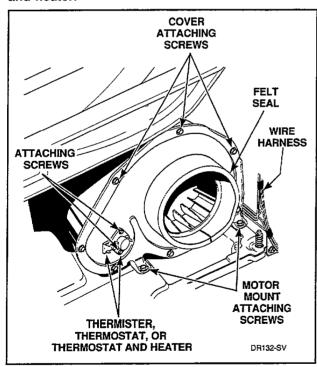


Figure 24

26. FRONT AIR DUCT

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Open loading door and lift filter out of air duct, Figure 9.

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

d. Remove two screws holding duct to front bulkhead and remove air duct, Figure 25.

AWARNING -

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, make sure felt seal on exhaust fan cover makes airtight seal on flange of duct, *Figure 24*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

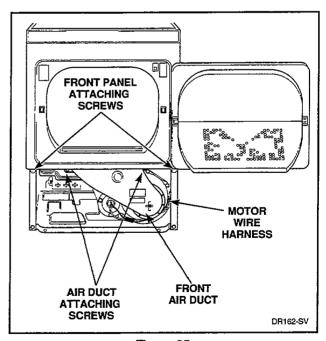


Figure 25

AWARNING -

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

27. MOTOR AND EXHAUST ASSEMBLY

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- b. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Open loading door and lift filter out of bulkhead, Figure 9.

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

d. Remove screws holding air duct to front bulkhead and remove air duct, Figure 25.

AWARNING -

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, make sure felt seal on exhaust fan cover makes airtight seal on flange of duct, *Figure 24*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

e. Disconnect wires from thermister, thermostat, or thermostat and heater, *Figure 24*.

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

f. Remove cylinder belt from idler and motor pulleys, *Figure 26*.

NOTE: When installing belt, make sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever, Figure 26. Belt must be positioned around cylinder approximately three inches ahead of the rear rib on cylinder, *Figure 35*, with the ribbed surface of the belt against the cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

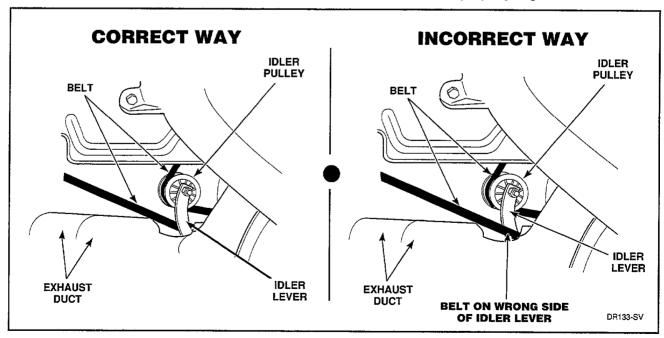


Figure 26

(continued)

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

- 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 29.
- h. Remove two screws holding motor mounting bracket to dryer base, *Figure 24.*

AWARNING

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, make sure felt seal on exhaust fan cover makes airtight seal on flange of duct, *Figure 24*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

IMPORTANT: When reinstalling motor and exhaust assembly, make 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 25*. Tab on rear of motor mounting bracket must be slid into slot in dryer base. Make sure the belt has been installed on the correct side of the idler lever, *Figure 26*.

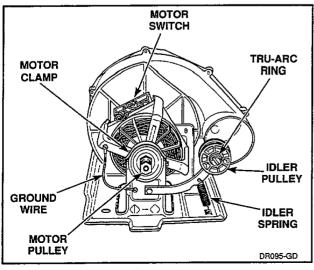


Figure 27

- Pull assembly forward and disengage the middle exhaust duct.
- Rotate the assembly 90° counterclockwise and slide out of dryer.

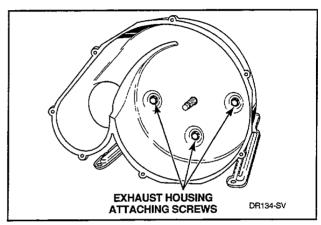


Figure 28

k. Motor pulley and idler pulley assemblies.

Refer to Figure 27 for motor and idler pulley removal.

NOTE: Unthread motor pulley from motor shaft (left hand thread).

I. Impeller and housing.

- (1) Remove screws holding cover to housing, *Figure 24*.
- (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 28.

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

m. 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 29.

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.

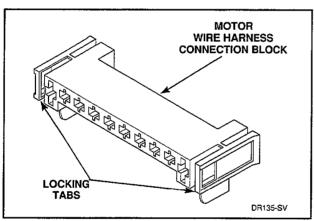


Figure 29

Before attaching wire harness connection block to motor, make 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 27*.
- (3) Pry two motor clamps off motor mounting bracket with screwdriver, *Figure 27*, 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 27*) with the positioning tab on the motor engaged with the anti-rotating notch in the motor bracket.

n. Connection Block Terminals

- (1) Remove terminals from the motor wire harness conection block using No. 283P4 Terminal Extractor Tool as follows:
 - (a) Insert the tool into the block on the back of the terminal being removed, Figure 30.
 - (b) Apply tool pressure to compress the terminal locking tab on terminal and force the terminal and wire out back side of connection block, Figure 30.
- (2) 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.

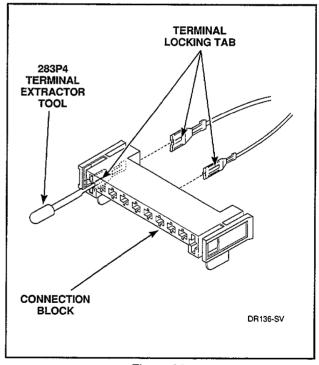


Figure 30

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

28. CABINET TOP

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- 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 side panels, *Figure 25*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

- e. Remove two cabinet top hold-down screws, *Figure 31*.
- f. Lift cabinet top to a vertical position by hinging it on the rear hinges, *Figure 31*.

NOTE: Cabinet top may be raised and hinged on the rear hinges or supported against wall behind the dryer.

g. Carefully withdraw wire harness through hole in cabinet top and lift the top off the top hinges, Figure 31.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

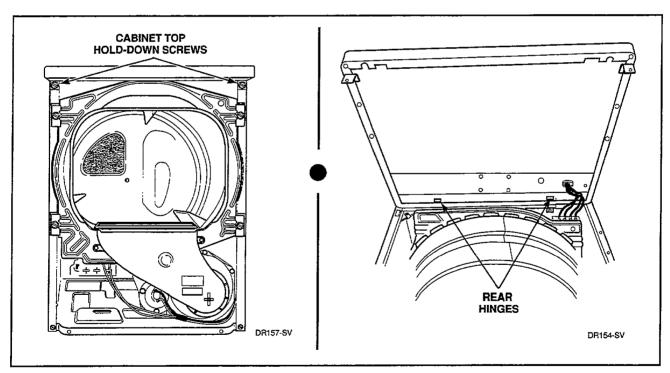


Figure 31

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

29. CYLINDER LIGHT BULB (Figure 32)

- a. Open loading door and remove screws holding lens to front bulkhead.
- b. Turn bulb counterclockwise out of light receptacle.

30. CYLINDER LIGHT RECEPTACLE

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 20.
- 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 side panels, Figure 25.

- Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch. Figure 18.
- e. Open loading door and remove screws holding the lens to the front bulkhead, *Figure 32*.
- f. Disconnect wires from light receptacle terminals.

NOTE: Refer to appropriate wiring diagram when rewiring light receptacle.

- g. Remove two screws holding receptacle to front bulkhead, *Figure 32*.
- h. Remove light receptacle off front bulkhead.

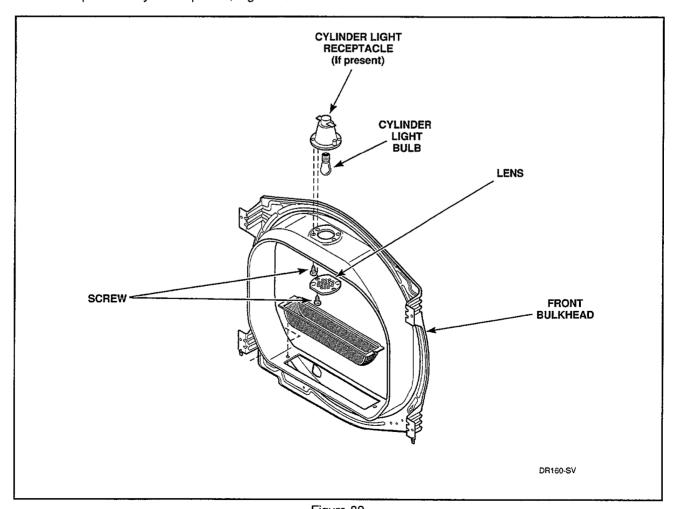


Figure 32

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

31. FRONT BULKHEAD ASSEMBLY

- While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 20.
- 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 side panels, *Figure 25*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

- e. Disconnect wires to cylinder light (if present).
- f. Disengage belt from motor and idler pulleys, Figure 26.

NOTE: When installing belt, make sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever, *Figure 26*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder, *Figure 35*, with the ribbed surface of the belt against cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

g. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet, *Figure 33*.

AWARNING -

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

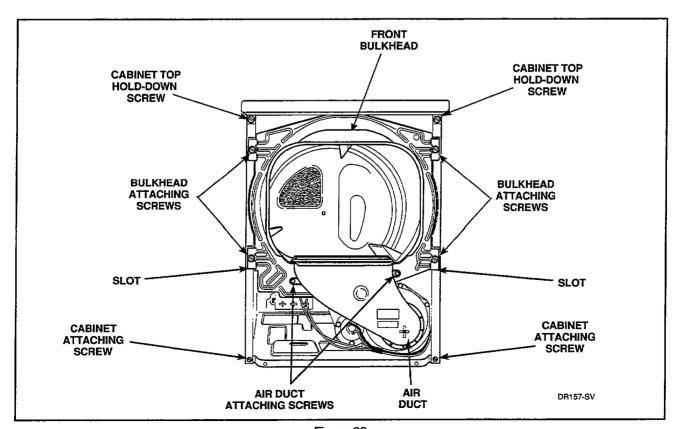


Figure 33

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: When reassembling, make sure felt seal on exhaust fan cover makes airtight seal on flange of duct, *Figure 24.* If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

- h. Cylinder Glide and Glide Bracket (Refer to Figure 34.)
 - (1) Unsnap glide from each glide bracket.
 - (2) Remove two screws holding glide bracket to front bulkhead.

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 morror to ensure the glides are aligned with the cylinder, making sure the tabs are visible.

i. Front Cylinder Seal (Figure 34)
Cylinder seal is cemented to the bulkhead.

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.

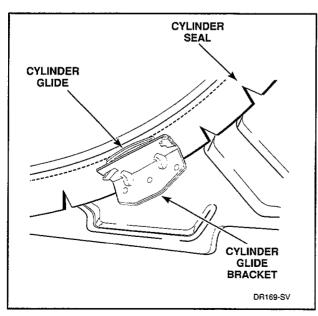


Figure 34

32. CYLINDER BELT

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 20.
- 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 side panels, *Figure 25*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

- e. Disengage belt from motor and idler pulleys, Figure 26.
- f. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet, *Figure 33*.

AWARNING

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, make sure felt seal on exhaust fan cover makes airtight seal on flange of duct, *Figure 24*. 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, make sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever, *Figure 26*. Belt must be positioned around cylinder approximately three inches ahead of the rear rib on cylinder, *Figure 35*, with the ribbed surface of the belt against the cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

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

33. CYLINDER ASSEMBLY

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- 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 side panels, *Figure 25*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys, *Figure 26*.

NOTE: When installing belt, make sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever, *Figure 26*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder, *Figure 35*, 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. Then lift complete bulkhead assembly out of slots in cabinet, *Figure 33*.

AWARNING-

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, make sure felt seal on exhaust fan cover makes airtight seal on flange of duct, *Figure 24.* 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 screws, Figure 33.
- 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 35.

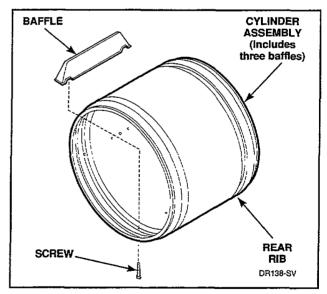


Figure 35

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

34. REAR SEAL

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- 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 side panels, Figure 25. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

- e. Remove two cabinet top hold-down screws, Figure 31.
- f. Lift cabinet top to a vertical position by hinging it on the rear hold-down hinges, *Figure 31*.

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

g. Disengage belt from motor and idler pulleys, *Figure 26.*

NOTE: When installing belt, make sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever, *Figure 26*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder, *Figure 35*, with the ribbed surface of the belt against cylinder. After installing belt, manually rotate cylinder **counterclockwise** to check that belt is properly aligned.

h. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet, *Figure 33*.

AWARNING-

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, make sure felt seal on exhaust fan cover makes airtight seal on flange of duct, *Figure 24*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

- Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.
- j. Cylinder seal is cemented to the bulkhead. Pull rear cylinder seal from flanged edge of bulkhead, *Figure 36*.

IMPORTANT: The 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.

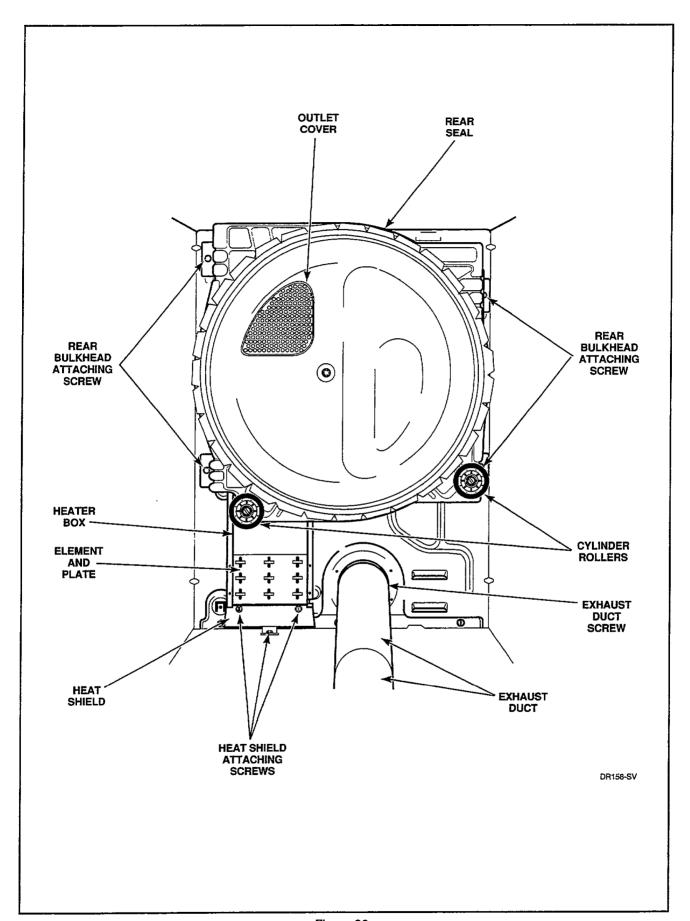


Figure 36

AWARNING -

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

35. CYLINDER ROLLERS

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 20.
- 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 side panels, Figure 25. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

- e. Disengage belt from motor and idler pulleys, Figure 26.
- f. Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet, *Figure 33*.

AWARNING

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, make sure felt seal on exhaust fan cover makes airtight seal on flange of duct, *Figure 24*. 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 37*.
- h. Refer to Figure 37 for removal of roller from bulkhead.

36. OUTLET COVER

 a. Open door and remove two screws holding outlet cover to rear bulkhead (if present), Figure 36.

37. REAR BULKHEAD AND HEATER BOX ASSEMBLIES

- 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.
- c. Remove two screws holding bottom tabs on front panel to dryer cabinet, *Figure 25*. 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 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys, Figure 26.

NOTE: When reinstalling belt, make sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler lever, *Figure 26*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder, Figure 35, 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 33.

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 34*.

AWARNING-

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

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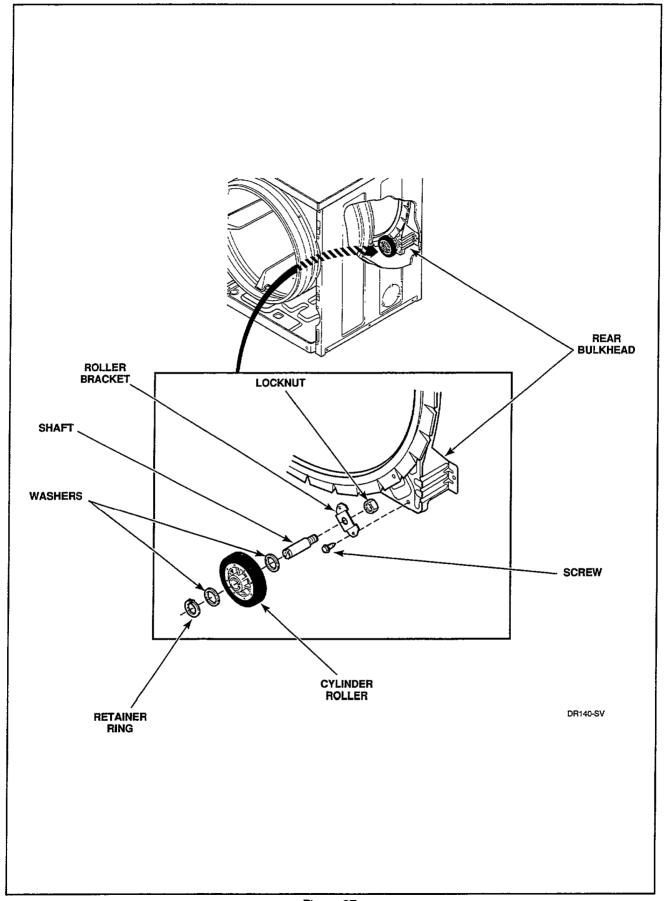


Figure 37

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: During reinstallation of front bulkhead, make sure air duct is properly positioned with the flange inside of the felt seal on exhaust fan cover, *Figure 24*. 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 screws, *Figure 31.*
- 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 21.
- (2) Remove screw from right side of burner housing, holding burner tube in place, Figure 23.
- (3) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing, Figure 21.
- (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 21*.
- (7) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer, *Figure 23*.
- (8) Remove four screws holding shroud to heater box, Figure 21, 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 36*.

- Remove screw holding heat shield to dryer base, Figure 36.
- While supporting bulkhead, remove the four screws holding rear bulkhead to dryer cabinet, Figure 36, then lift complete assembly out of dryer.
- m. Remove two screws holding heat shield to heater box, *Figure 36.*
- To remove heater box from rear bulkhead, refer to Figure 38.

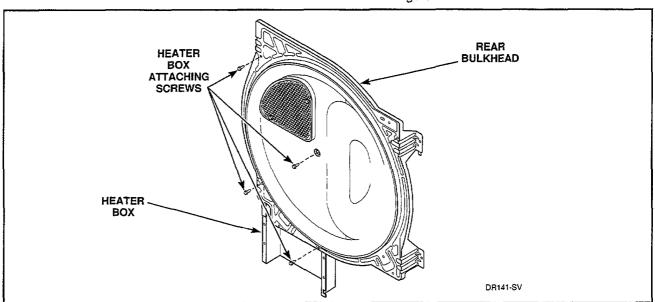


Figure 38

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

38. TERMINAL BLOCK OR POWER CORD

a. Terminal Block:

- (1) While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 20.
- (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 side panels, Figure 25. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- (4) Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

- (5) Remove two cabinet hold-down screws, *Figure 31*.
- (6) Lift cabinet top to a vertical position by hinging it on the rear hinges, Figure 31.

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.

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

(8) Remove screw holding terminal block to rear bulkhead, *Figure 39*.

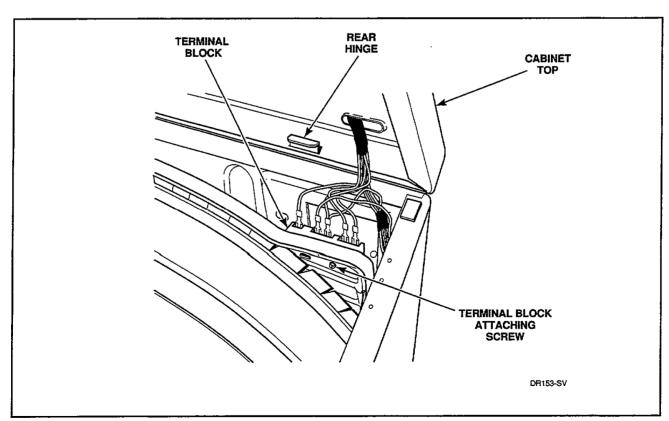


Figure 39

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

b. Power Cord:

- (1) Remove access plate on rear of cabinet.
- (2) Remove strain relief.
- (3) Remove screw holding power cord ground wire to rear bulkhead, *Figure 40*.

NOTE: Reinstall screw and ground wires into same hole in bulkhead when reinstalling power cord.

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

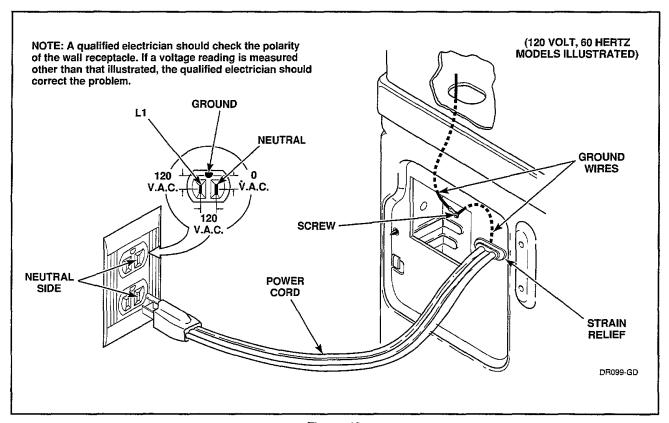


Figure 40

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

39. MOTOR CONNECTION BLOCK TERMINALS

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

- a. Insert the tool into the connection block on the back of the terminal being removed, Figure 41.
- Apply tool pressure to compress the terminal locking tab on terminal and force the terminal out back side of connection block, Figure 41.

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.

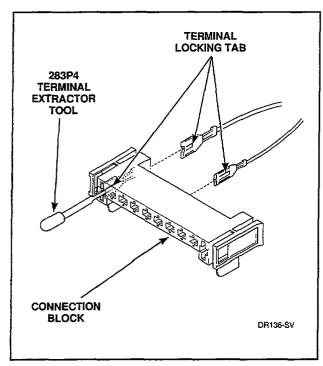


Figure 41

40. CABINET

- a. Remove six screws (three on top and three at lower front) holding the hood assembly to the control hood rear panel and cabinet top, Figures 5, 6, 7, or 8.
- Rotate assembly forward to access inner wiring.
- Disconnect wiring from inner components and carefully remove components from control hood assembly.

NOTE: Refer to appropriate wiring diagram when rewiring component parts.

- d. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- e. Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- f. Remove two screws holding bottom tabs on front panel to dryer side panels, Figure 25. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- g. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

- h. Remove two cabinet top hold-down screws, Figure 31.
- i. Lift cabinet top to a vertical position by hinging it on the rear hinges, Figure 31.

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

- j. Carefully withdraw wire harness through hole in cabinet top and lift the top off the hinges, Figure 31.
- k. Disengage belt from motor and idler pulleys, *Figure 26.*

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

NOTE: When installing belt, make sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever, *Figure 26*. Belt must be positioned around cylinder approximately three inches ahead of rear rib on cylinder, *Figure 35*, 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 33.
- m. Manually rotate cylinder until one of the baffles is at the 6 o'clock position and carefully remove cylinder out through front of dryer.

n. 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 21*.
- (2) Remove screw from right side of burner housing holding burner tube in place, Figure 23.
- (3) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing, Figure 21.
- (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 21*.
- (7) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer, Figure 21.
- (8) Remove four screws holding shroud to heater box, *Figure 21*, and remove shroud out through front of dryer.

o. Electric Models:

- Remove two screws holding element and plate to heater box, then pull element down and away from heater box, *Figure 23.*
- Remove screw holding heat shield to dryer base, Figure 36.
- q. While supporting bulkhead, remove screws holding bulkhead to rear of dryer cabinet, and remove assembly out of dryer, *Figure 36*.
- Remove screw holding exhaust duct to dryer cabinet and pull duct out of cabinet, Figure 36.
- s. Remove two screws from each rear cabinet top hinge, *Figure 39*.
- Remove screw holding access plate 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 33*. Then remove remaining screws from around bottom of cabinet and lift cabinet off base.

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

41. BASE

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20.*
- 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 side panels, Figure 25. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and guide lugs from cabinet top.
- d. Disconnect wires from door switch, Figure 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. 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 21.
- (2) Close main gas shut-off valve and gas shut-off valve inside of dryer, Figure 21.
- (3) Disconnect gas line to dryer.
- (4) Remove three screws holding gas valve bracket to base and remove valve with leadin pipe attached, Figure 21.
- (5) Remove screw from right side of burner housing, holding burner tube in place, Figure 23.
- (6) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing, Figure 21.
- (7) Carefully rotate burner tube and igniter counterclockwise so tab is at 8 o'clock position and CAREFULLY remove burner tube and igniter assembly out through front of dryer.

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

- (8) Remove screw holding front of burner housing to dryer base, Figure 23.
- (9) Remove four screws holding shroud to heater box, Figure 21, and remove shroud and burner housing out through front of dryer.

f. Electric Models:

- (1) Remove two screws holding element and plate to heater box, then pull element down and away from heater box, *Figure 23*.
- (2) Disconnect wire harness from limit thermostat, thermal fuse and/or heating element, Figure 23.
- g. Remove screw holding heat shield to dryer base, Figure 36.

- h. Remove lint filter, Figure 9.
- Remove screws holding air duct to front bulkhead and remove air duct, Figure 25.

AWARNING -

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, make sure felt seal on exhaust fan cover makes airtight seal on flange of duct, *Figure 24.* If the seal is installed improperly, the airflow through the exhaust system will be restricted which can cause fire and dryer malfunction.

j. Disconnect wires from thermister, thermostat, or thermostat and heater, *Figure 24*.

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

- Remove cylinder belt from idler and motor pulleys, Figure 26.
- Remove two screws holding motor mounting bracket to dryer base. Then pull complete assembly forward to disengage middle exhaust duct.
- m. Rotate the assembly **counterclockwise** 90° and slide out front of machine.
- n. Disconnect wires from motor switch and remove harness clip from motor bracket, Figure 25. Then, set motor and exhaust assembly off to the side.
- Remove screw holding bracket on exhaust duct to rear of cabinet and pull duct out of cabinet, Figure 36.

IMPORTANT: When reinstalling motor and exhaust assembly, make 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 25. Tab on rear of motor mounting bracket must be slid into slot in dryer base. Make sure the belt has been installed on the correct side of the idler lever, Figure 26.

- p. Remove two screws from front edge at each side of cabinet, *Figure 33*. Then remove remaining screws from around bottom of cabinet and lift cabinet off base.
- q. Remove leveling legs from base and reinstall on new base, Figure 42.

SECTION III Adjustments

42. LEVELING LEGS (Figure 42)

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.

- AWARNING -

To reduce the risk of electrical shock, fire, explosion, serious injury or death, disconnect electric power to the dryer before servicing.

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.

 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.

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.

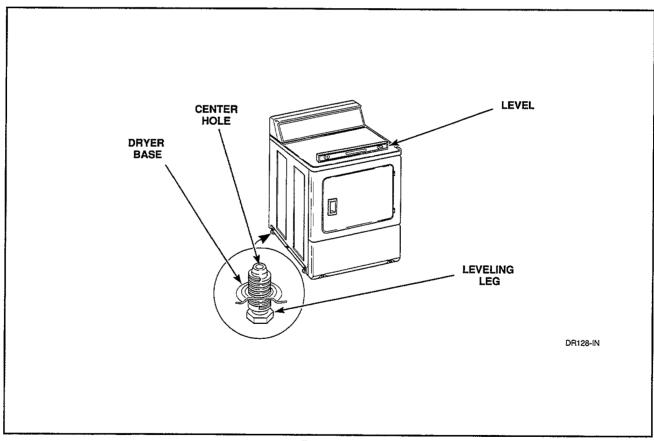


Figure 42

43. BURNER FLAME - Gas Models

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Set timer at "60" minutes.
- d. 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.
- e. Allow the dryer to operate for approximately five minutes, then loosen the air shutter lockscrew. *Figure 43*.

- f. Turn the air shutter to the right or left to obtain a soft, uniform blue flame. (A lazy, orangetipped flame indicates lack of air. A harsh, roaring, very blue flame indicates too much air.)
- g. After proper flame is obtained, tighten air shutter lockscrew securely, Figure 43.
- h. Reinstall lower front access panel and screws.

AWARNING

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.

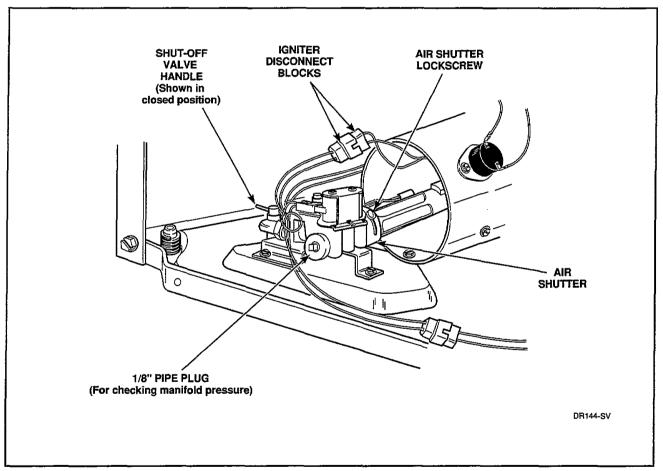


Figure 43

SECTION IV Test Procedures

AWARNING

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.

WC01

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

44. DRIVE MOTOR (Figure 44)

- a. Remove motor and exhaust assembly, paragraph 27.
- Disconnect motor wire harness at motor connection block.

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

NOTE: 120 Volt motor resistance 2,460-3,100 Ohms. 240 Volt motor resistance 10,900-13,300 Ohms.

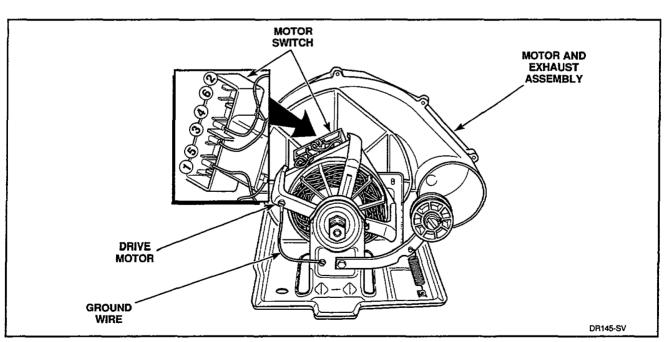


Figure 44

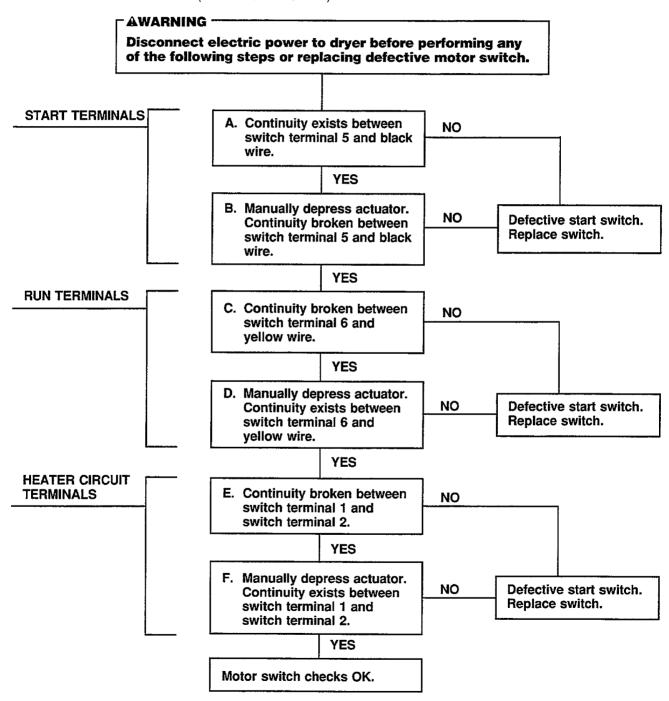
AWARNING .

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.

WODI

c. Emerson Motor Switch (Refer to SECTION VI.)



-AWARNING				
 Disconnect electrical Close gas shut-officer Never start the dream Whenever ground 	electric shock, fire, ex ric power to the dryer b f valve to gas dryer befor ryer with any guards/pa wires are removed dur nsure that the dryer is p	efore servicing. ore servicing. nels removed ing servicing,	ng. . these gro	
AWAF	dings. (Refer to SECTION ' RNING nnect electric power to following steps or repla	dryer before		g any
START WINDING	G. 1-2 Ohms between wire and orange		NO	Defective run winding. Replace motor.
		YES	-	
RUN WINDING	H. 1-2 Ohms between the state of the state o		NO	Defective run winding. Replace motor.
<u></u>		YES		
PROTECTOR	I. Continuity exists orange wire as wire.	sts between	NO	Defective run winding. Replace motor.
L		YES	J	
	All motor winding	-		
e. Indicate whether YES	t, the motor passed this test Yes No	or, NO it failed t	his test	
DRYER MOTOR FAIL	<u>LURE</u>			
Motor Switch:	Start Terminals	☐ A ☐ B.		
	Run Terminals:	☐ C. ☐ D.		
	Heater Circuit Terminals:	☐ E. ☐ F.		
	Start winding:	☐ G.		
Motor Windings:	Run winding:	☐ н.		
	Protector:	☐ I.		

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

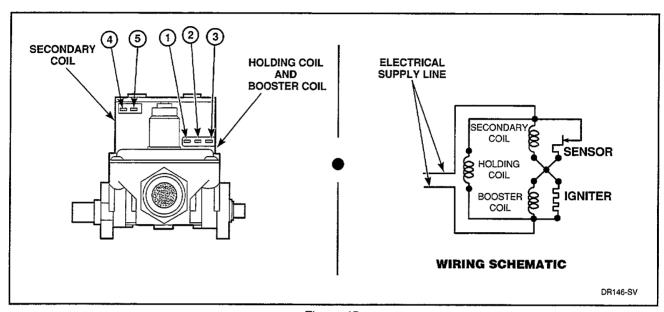


Figure 45

45. BURNER SYSTEM OPERATION (Figure 45)

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 open.

IGNITION SYSTEM FEATURES (Figure 45)

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.

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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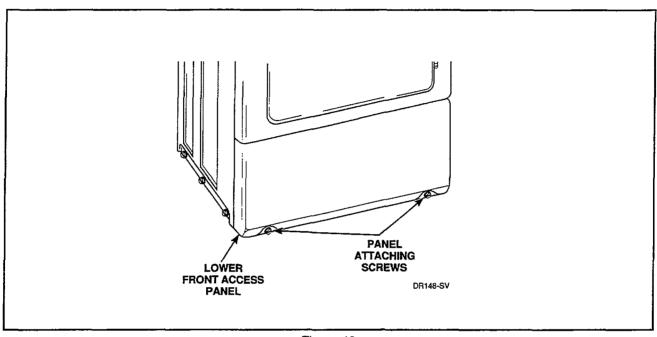


Figure 46

46. ELECTRICAL CIRCUIT TO IGNITION SYSTEM

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 46.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Close gas shut-off valve, Figure 43.
- d. Remove valve wire harness disconnect block from the holding and booster coil, Figure 47.
- e. Plug dryer power cord into wall receptacle, start the dryer in a heat setting (refer to the Operating Instructions supplied with dryer).
- f. 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 47. Meter should register line voltage in all Fabric settings, except FLUFF which should read "zero" VAC.
- g. If meter does not read line voltage in step "f", check motor switch, thermostats, fabric switch, or timer.

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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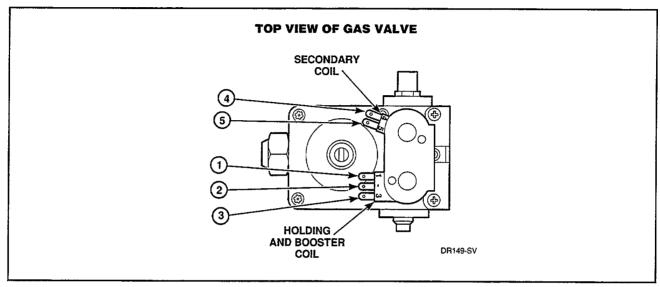


Figure 47

47. GAS VALVE COILS

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 46*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Close gas shut-off valve, Figure 43.
- d. Remove disconnect blocks from gas valve coils.
- e. Set test meter to read OHMS and put meter probes to terminals as follows:
 - (1) Holding Coil (Figure 47)
 Terminals 1 and 2 Meter should read 1365 ± 25 Ohms.
 - (2) Booster Coil (Figure 47)
 Terminals 1 and 3 Meter should read
 560 ± 25 Ohms.
 - (3) Secondary Coil (Figure 47)
 Terminals 4 and 5 Meter should read 1220 ± 50 Ohms.

COIL TOLERANCE READINGS

	60 Hertz	50 Hertz
Holding Coil	1365 ± 25	1700 ± 75
Terminals 1 & 2	Ohms	Ohms
Booster Coil	560 ± 25	750 ± 35
Terminals 1 & 3	Ohms	Ohms
Secondary Coil	1220 ± 50	1650 ± 75
Terminals 4 & 5	Ohms	Ohms

NOTE: If meter registers any other readings than those listed, the respective coil(s) should be replaced.

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

48. FLAME SENSOR

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 46*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Close gas shut-off valve, Figure 43.
- d. Remove wires from sensor terminals, *Figure 21.*
- e. Set test meter to read OHMS, put meter probes on sensor terminals. Meter should read "zero" Ohms. If meter registers an Ohm reading of any amount, replace sensor.

49. IGNITER

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 46.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Disconnect igniter wires at disconnect block, Figure 43.
- d. Set test meter to read Ohms and put meter probes on terminals of igniter wires.
- Meter should register an Ohm reading of at least 40 Ohms. If meter does not register any Ohms or less than 40 Ohms, replace the igniter.

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

NOTE: Test procedures of paragraph 47, 48 and 49 can be performed on workbench if gas valve, igniter, burner tube and burner housing have been removed from dryer.

50. TEMPERATURE SWITCH

- a. Remove six screws (three on top and three at lower front) holding the hood assembly to the control hood rear panel and cabinet top, Figures 6 and 7.
- b. Disconnect wires from temperature switch.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

c. 58813 Temperature Switch

c. 30010 reinperature outton			
	L1 - 1	L1 - 2	L1 - T
Perm. Press and Regular		x	
Delicate	х		
Fluff X			
X indicates closed			

61511 Temperature Switch

Ola I I telliperature anticii			
	L1 - 1	L1 - 2	L1 - 3
Perm. Press and Regular		x	
Delicate	х	Х	
Fluff X			
X indicates closed			

62173 Temperature Switch

Set the meter to read Ohms and apply the meter probes to the switch terminals. Meter should read 10 Ohms (maximum) with the switch in the DELICATE setting. Turn switch full **CLOCKWISE** direction, meter shold read 10.000 Ohms (minimum).

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

51, DOOR SWITCH

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 20*.
- 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 25*. 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 18.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

- e. Set meter to read Ohms and apply meter probes on switch terminals 1 and 3 with door closed. You should get "zero" reading.
- f. Apply probes to terminals 1 and 2 with door closed. The meter should read "no reading".
- g. Open door. Meter should read "zero".

52. SIGNAL CONTROL

- a. Remove six screws (three on top and three at lower front) holding the hood assembly to the control hood rear panel and cabinet top, Figures 6 and 7.
- b. Disconnect wires from signal control.
- c. Set meter to read Ohms and apply meter probes to terminals of signal control. Meter should read approximately 1,000 Ohms at all times.

53. TIMER CONTACT POINTS

Advance Test:

To insure that timer motor is functioning and timer is advancing, select a cycle and activate dryer start switch. With dryer running, rotate timer knob to a position where the signal will sound, release knob. If timer is advancing, signal will go off within 10 minutes or less.

- a. Remove six screws (three on top and three at lower front) holding the hood assembly to the control hood rear panel and cabinet top, Figures 6 and 7.
- b. Disconnect wires from timer.

NOTE: Refer to appropriate wiring diagram when rewiring timer.

- Manually rotate timer out of "OFF" position and into cycle.
- d. Set test meter to read OHMS and apply meter probes to terminals, Figures 48 and 49.
- e. Starting with timer knob indicator in OFF position at top of timer, slowly turn timer knob clockwise until indicator is again pointing toward OFF position at top of timer. Meter should register "zero" reading when circuit being tested is completed by timer. Refer to Figure 48 showing when timer circuits are made.

120 Volt timer motor resistance 2,460-3,100 Ohms. 240 Volt timer motor resistance 10,900-13,000 Ohms.

AWARNING .

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

CIRCUIT TO BE TESTED	TIMER No. 59419 500731 500732	TIMER No. 59420	TIMER No. 59421
Timer Motor	L2 and T	-	L2 and T
Signal Control	P and B	P and B	P and B
Motor	L1 and M	L1 and M	L1 and M
Heat	L2 and H	L2 and H	L2 and H
Push-to-Start	M and S	M and S	M and S

Figure 48

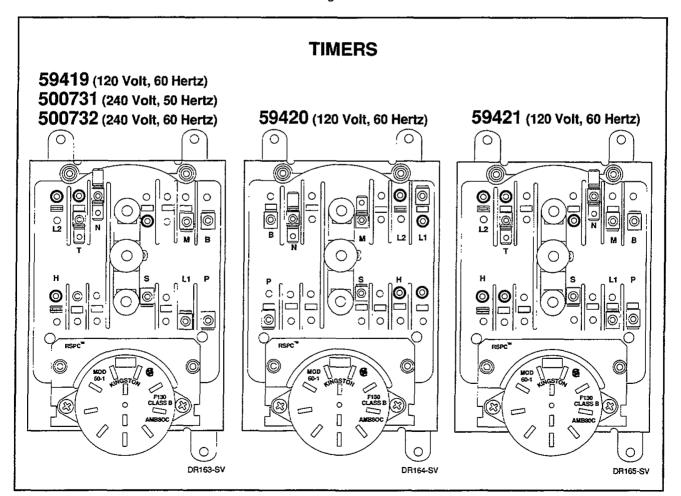


Figure 49

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

54. CYCLING OR LIMIT THERMOSTAT

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, *Figure 46*.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Disconnect wires from thermostat, Figure 23 or 24.

NOTE: Refer to appropriate wiring diagram when rewiring thermostat.

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

- (1) Set meter to read OHMS.
- (2) Apply meter probes to the thermostat terminals.
- (3) Meter should read "zero".

Cycling Thermostat (S.P.D.T.)

- (1) Set meter to read OHMS.
- (2) Apply meter probes to terminals 1 and 3. Meter should read "zero".
- (3) Remove screws holding thermostat to exhaust fan cover.
- (4) Heat thermostat with a small flame until a distinct "click" is heard, then immediately apply meter probes to terminals 1 and 2. Meter should read "zero".

55. THERMOSTAT HEATER

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 46.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Disconnect wires from thermostat heater, Figure 24.

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

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

120 Volt 60 Hz. 2400 ± 240 Ohms. 240 Volt 50 Hz. 9600 ± 960 Ohms.

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

56. THERMAL FUSE (Electric Models)

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 46.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Disconnect wires from thermal fuse, Figure 23.

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

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

57. HEATER ASSEMBLY (Electric Models)

- a. While supporting the lower access panel, remove two screws from bottom edge of lower access panel, Figure 46.
- Gently lower the access panel to disengage guide lugs from bottom edge of front panel.
- c. Disconnect wire from heater assembly, *Figure 23*.

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

 d. 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 ± .31 Ohms (cold)
White	208 V 60 Hz.	8. 2 ± .5 Ohms (cold)
Green	240 V 50 Hz.	10.75 ± .32 Ohms (cold)
Yellow	240 V 50 Hz.	13.03 ± .39 Ohms (cold)
Blue	204 V 50 Hz.	16.7 ± .5 Ohms (cold)

SECTION V Service Helps

-AWARNING-

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.

58. 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? Be sure to check both fuses on Electric models.
Loading door not closed or inoperative door switch.	Close door or test switch and replace if inoperative.
*Timer improperly set.	Reset timer, or try another cycle.
*Inoperative timer.	Test timer and replace if inoperative.
Motor starting functions inoperative. No Start; or Motor hums only.	Refer to MOTOR TEST SECTION IV to check start switch and start windings.
Motor is dead, won't run.	Refer to MOTOR TEST 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 paragraph 59.
Motor centrifugal switch sticky or plugged with lint.	Remove dust or lint and spray with "SLYDE", No. 131P4, to clean and lubricate.
Bind in upper or lower motor bearing.	Remove belt and determine if motor shaft will spin. Replace motor if shaft is locked up.
Loose motor wire harness connection block.	Firmly push connection block onto motor terminal block.
Broken, loose, or incorrect wiring.	Refer to appropriate wiring diagram.
Power cord is miswired.	Refer to appropriate wiring diagram for the correct wiring.
†Inoperative electronic control.	Refer to SECTION VII to check out the electronic control operation.

^{*}Mechanical Timer Models only †Electronic Control Models only

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

59. DRYER STOPS IN CYCLE; QUITS AFTER A COUPLE LOADS; HAS A BURNING SMELL; CYCLES ON MOTOR THERMAL OVERLOAD PROTECTOR.

POSSIBLE CAUSE	TO CORRECT
Incorrect 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.
Broken, loose or incorrect wiring.	Refer to appropriate wiring diagram.
Motor switch functions inoperative. Short in motor winding.	Refer to MOTOR TEST SECTION IV to check switch and windings.

60. MOTOR RUNS BUT CYLINDER DOES NOT TURN

POSSIBLE CAUSE	TO CORRECT
Motor drive pulley loose.	Tighten pulley, Figure 27.
Belt not installed on pulley.	Install belt.
Broken cylinder belt.	Replace belt.
Clothes cylinder is binding.	Check cylinder for binding and "out of round" condition. Also check front and rear bulkheads for warping. Check cylinder rollers for binding. Check cylinder seals and glides for wear or damage.
Broken or disconnected idler lever spring.	Replace or reconnect spring, Figure 27.
	i

61. MOTOR DOES NOT STOP

POSSIBLE CAUSE	TO CORRECT
Incorrect wiring.	Refer to appropriate wiring diagram.
Motor centrifugal switch sticky or plugged with lint.	Remove dust or lint and spray with "SLYDE", No. 131P4, to clean and lubricate.
Inoperative door switch.	Test switch and replace if inoperative.
*Inoperative timer — nonmetered models.	Test timer and replace if inoperative.
†Inoperative electronic control.	Refer to SECTION VII to check out the electronic control operation.

^{*}Mechanical Timer Models only †Electronic Control Models only

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

62. HEATING ASSEMBLY DOES NOT HEAT OR BURNER DOES NOT IGNITE.

POSSIBLE CAUSE	TO CORRECT
Blown house fuse or tripped circuit breaker.	Check fuses or circuit breakers. A 240 Volt dryer has two fuses — Make sure both fuses are good.
*Temperature selector switch set at FLUFF, or inoperative.	Reset switch, or test switch and replace if inoperative.
*Timer improperly set (Set in a cool-down period, or a no heat cycle).	Reset timer. Try another cycle.
Inoperative limit thermostat.	Test thermostat and replace if inoperative. Reset thermostat (if present).
Electric Models: Inoperative heater assembly.	Test heater assembly, <i>paragraph 57</i> , and replace if inoperative.
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 paragraph 47.
Gas Models: Inoperative flame sensor.	Test flame sensor and replace if inoperative. Refer to paragraph 48.
Gas Models: Inoperative igniter.	Test igniter and replace if inoperative. Refer to paragraph 49.
Electric Models: Inoperative thermal fuse.	Test thermal fuse and replace if inoperative.
*Inoperative cycling thermostat.	Test thermostat and replace if inoperative.
*Inoperative timer.	Test timer and replace if inoperative.
†Inoperative electronic control.	Refer to SECTION VII to check out the electronic control operation.
†Read-out on electronic control indicates "SH".	Thermistor is shorted, replace thermistor.
†Read-out on electronic control indicates "OP".	Thermistor is open, replace thermistor.
Broken, loose, or incorrect wiring.	Refer to appropriate wiring diagram.

^{*}Mechanical Timer Models only †Electronic Control Models only

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. IGNITER DOES NOT GLOW (gas supply sufficient) — GAS MODELS

POSSIBLE CAUSE	TO CORRECT
*No power to power leads on valve.	Check timer, selector switch, thermostats, motor switch, and wiring.
Flame sensor failed with contacts open.	Replace flame sensor.
Igniter broken or open.	Replace igniter.
†Inoperative electronic control.	Refer to SECTION VII to check out the electronic control operation.

64. 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 paragraph 47.		

65. 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 tube assembly.	Loosen screw and properly position igniter and bracket on burner tube assembly.
Flame sensor installed improperly on burner housing.	Loosen screw and properly position the flame sensor on the burner housing.

^{*}Mechanical Timer Models only †Electronic Control Models only

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

66. HEATER ASSEMBLY OR BURNER SHUTS OFF PREMATURELY

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system. Weather hood flapper restricted.	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 burner flame, paragraph 43.
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 paragraph 67.
Gas models: Flame sensor contact closing prematurely. Burner flame improperly adjusted.	Replace flame sensor or adjust burner flame, paragraph 43.
*Inoperative cycling thermostat.	Test thermostat and replace if inoperative.
*Inoperative timer.	Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	Refer to appropriate wiring diagram.
†Inoperative electronic control.	Refer to SECTION VII to check out the electronic control operation.

67. 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, paragraph 23.
Air leak around loading door. (Door not sealing due to damaged seal or inoperative door catch.)	Replace seal or catch.
†Inoperative thermistor.	Test thermistor and replace if inoperative.
Air leak at blower seal.	Check and replace seal if necessary.

^{*}Mechanical Timer Models only †Electronic Control Models only

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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68. HEATER ASSEMBLY OR BURNER DOES NOT SHUT OFF

POSSIBLE CAUSE	TO CORRECT
*Improper motor switch. (Timer must be in a heat setting.)	Test switch and replace if inoperative.
Motor does not stop.	Refer to paragraph 61.
Incorrect wiring.	Refer to appropriate wiring diagram.
Heater assembly shorted.	Remove heater assembly and check for short.

69. CLOTHES DO NOT DRY

POSSIBLE CAUSE	TO CORRECT	
Heater assembly does not heat or burner does not ignite.	Refer to paragraph 62.	
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 ful of wet clothes.	
Excessive lint on lint filter.	Clean lint filter.	
Load too small.	Add one or two bath towels to load.	
Automatic cycle.	Adjust to more dry setting.	
*Three position heat selector switch or timer set on FLUFF or inoperative.	Reset switch or timer, or test and replace the switch or timer if inoperative.	
Improper or inadequate exhaust system.	See INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.	
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.	
Inoperative limit thermostat.	Test thermostat and replace if inoperative. Reset thermostat (if present).	
Heater assembly or burner shuts off prematurely.	Refer to paragraph 66.	
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 installation, Figure 26.	

^{*}Mechanical Timer Models only †Electronic Control Models only

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

70. TIMER DOES NOT ADVANCE IN AUTOMATIC CYCLE (Mechanical Timer Models Only)

POSSIBLE CAUSE	TO CORRECT		
Inoperative high or low thermostat	Test thermostat and replace if inoperative.		
Heater assembly does not heat or burner does not ignite.	Refer to paragraph 62.		
Heater assembly or burner cycles off prematurely.	Refer to paragraph 66.		
Improper or inadequate exhaust system.	Refer to INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.		
*Drying large load.	Timer will not advance until the load is almost dry.		
Broken, loose or incorrect wiring.	Refer to appropriate wiring diagram.		
Timer motor is inoperative.	Select a drying cycle and activate start switch. Rotate timer knob until signal sounds. Release timer knob, signal should stop within ten minutes. If not, replace timer.		

71. CLOTHES ARE TOO HOT WHEN REMOVED FROM DRYER

POSSIBLE CAUSE	TO CORRECT		
Improper or inadequate exhaust system.	Refer to INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.		
Clothes are removed from dryer before cycle has completed.	Allow the dryer to complete the cycle through the cooldown 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 (not allowing cool-down).	Test timer and replace if inoperative.		

^{*}Mechanical Timer Models only †Electronic Control Models only

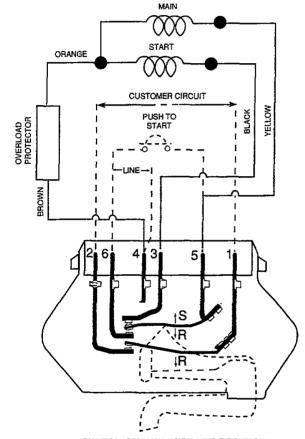
SECTION VI Internal Wiring of Dryer Motor Switch

AWARNING -

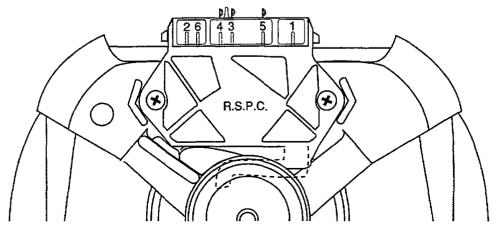
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- 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



SWITCH SHOWN IN START POSITION



DR166-SV

SECTION VII Service Procedures Unique to the Electronic Control Model Dryers

AWARNING

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: These procedures are intended to be used as an aid in diagnosing potential problems with the electronic control. Refer to SECTION V (Service Helps), for diagnosing problems with components other than the electronic control. See *Figure 50* for terminal numbers, connections and color coding.

72. DIAGNOSTIC CYCLE

A diagnostic cycle is built into the electronic control to detect internal problems on the printed circuit board of the control.

IMPORTANT: The diagnostic cycle is not intended to diagnose any components built into the control (i.e. relays, transformer, capacitors, etc.).

The diagnostic cycle is used in conjunction with a self-diagnostic routine chart located on the wiring diagram sticker inside of the control hood. To begin the diagnostic cycle, follow the flow chart shown in *Figure 51*.

NOTE: If the symptom or problem corresponds to one of the symptoms detailed on the following pages, proceed to that flow chart. (The diagnostic cycle chart check does not have to be made.)

Self-Diagnostic Routine

Entry: Follow the sequence given below.

- 1. Make sure dryer loading door is closed.
- 2. Start in the idle mode (all LED's off).
- Press the SIGNAL VOLUME and GO pads simultaneously.
- 4. If unable to start routine, check door switch.

Exit: Do any of the following.

- 1. Press any pad.
- 2. Open dryer loading door.
- 3. Unplug the dryer.

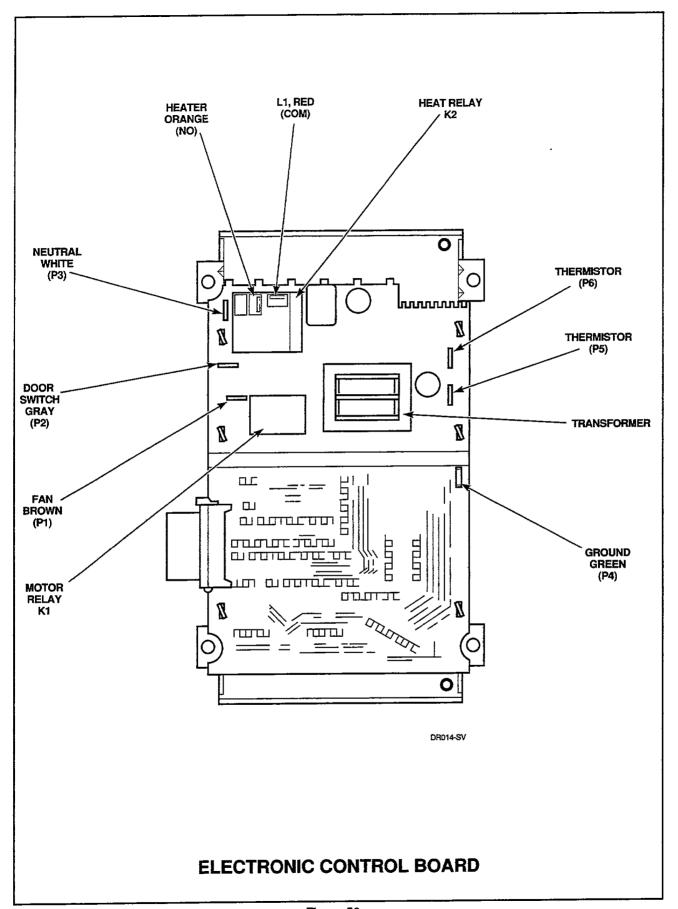


Figure 50

DIAGNOSTIC ROUTINE

LED Display	Illuminated LED	Motor Relay	Heat Relay	Signal Volume
99	None (All Off)	On	Off	Off
88	Wrinkle Free Status	Off	Off	Off
77	Cool Down	Off	Off	Off
66	Drying	Off	Off	Off
55	Clean Filter	Off	Off	Off
44	Memory	Off	Off	Off
33	Damp	Off	Off	Off
22	Dry	Off	Off	Off
11			Off	Off
00	Most Dry	Off	Off	Off
99	None (All Off)	Off	Off	Softest
88	None (All Off) Off Off		Off	Medium
77	None (All Off) Off Off		Off	Loudest
66	Signal Volume Off Off		Off	Off
55	Wrinkle Free Select	Off	Off	Off
44	No Heat Off Off		Off	Off
33	Knits Off Off		Off	
22	Delicates Off Off		Off	
11	Perm Press Off Off		Off	
00	Regular	Off	Off	Off
99	None (All Off)	Off	On	Off
88	None (All Off) On		On	Off

- This test routine will only light in the LED's pertaining to the hardware model selected.
 When the last step in the table is finished, the routine sequence will repeat.
 Each output is on for two seconds.

Figure 51

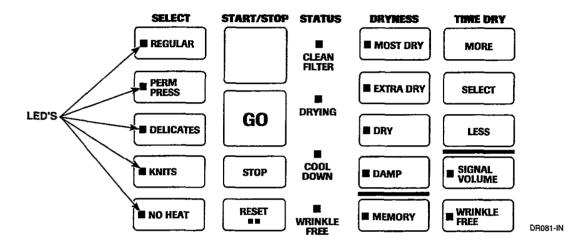


Figure 52

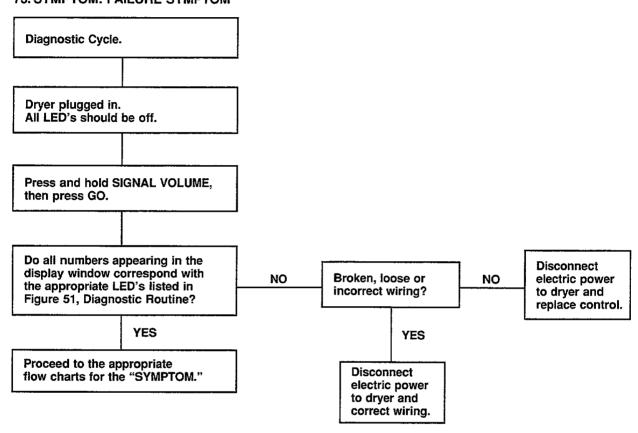
AWARNING .

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. SYMPTOM: FAILURE SYMPTOM



NOTE: The DIAGNOSTIC cycle follows the Diagnostic Routine located behind the control hood. All numbers should match with the correct LED's, see *Figure 51*.

Troubleshooting

NOTE: Refer to Figure 50. If the symptom or problem corresponds to one of the symptoms detailed on the following pages, proceed to that flow chart. (The diagnostic cycle check does not have to be made.)

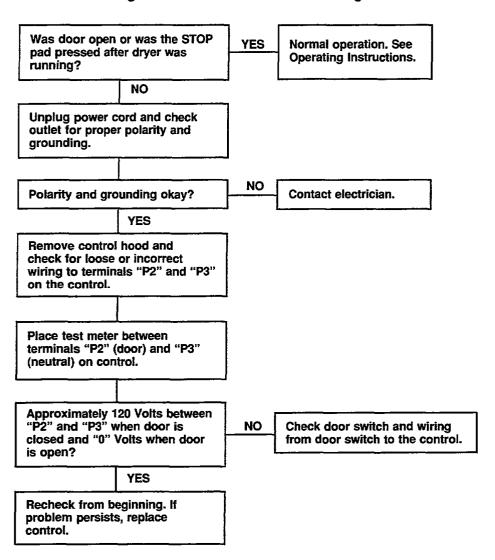
To reduce the risk of electric shock, fire, explosion, serious injury or death:

- 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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74. SYMPTOM: FLASHING DISPLAY

NOTE: Refer to Figure 50. to aid in this Troubleshooting section.



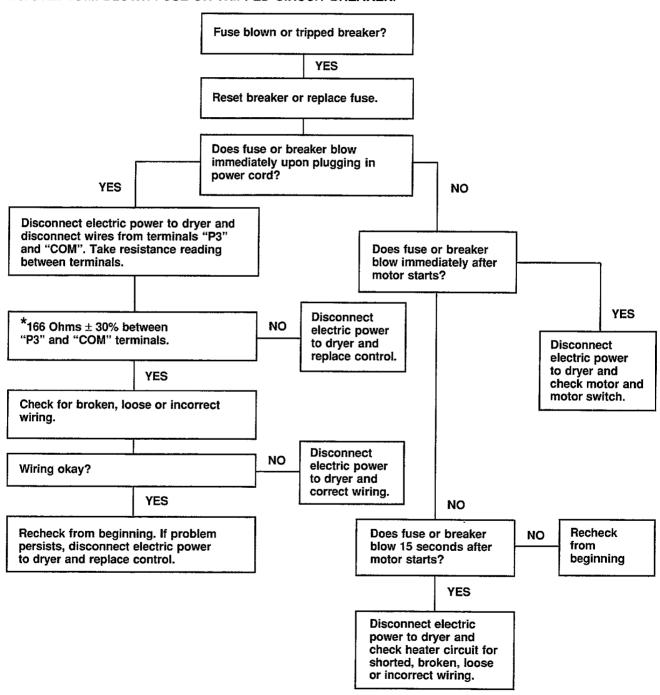
AWARNING .

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

75. SYMPTOM: BLOWN FUSE OR TRIPPED CIRCUIT BREAKER.



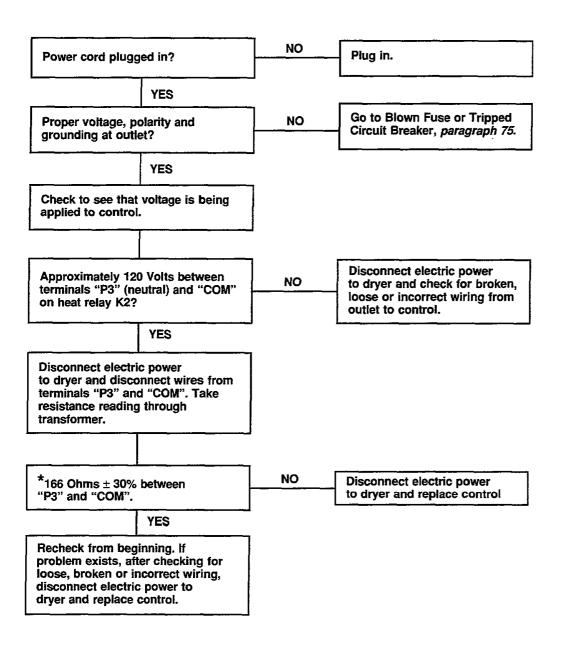
^{*} This measurement should be made with a digital Multi-Meter set at 200 Ohm scale for best precision.

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

76. SYMPTOM: CONTROL WILL NOT WAKE UP (No LED's Light) AFTER SELECT PAD IS PRESSED.



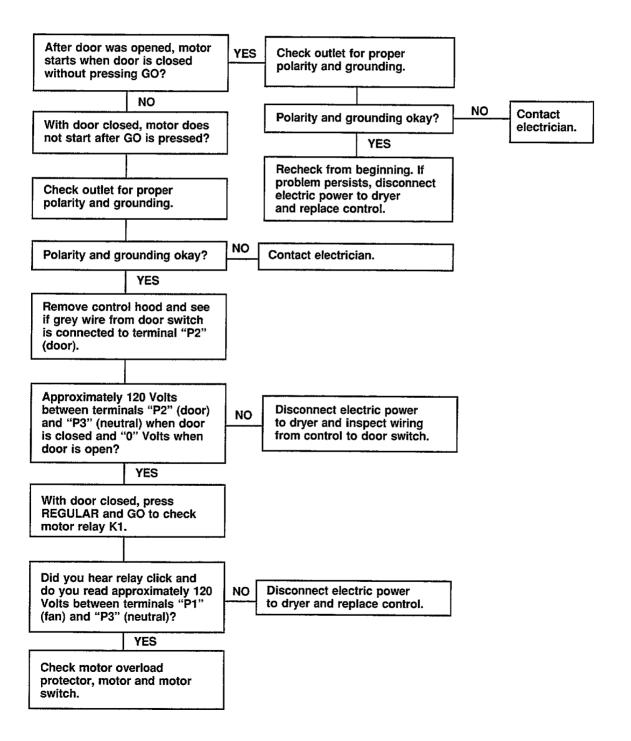
^{*} This measurement should be made with a digital Multi-Meter set at 200 Ohm scale for best precision.

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

77. SYMPTOM: CONTROL WAKES UP (When SELECT Pad is Pressed) BUT MOTOR DOES NOT START PROPERLY.

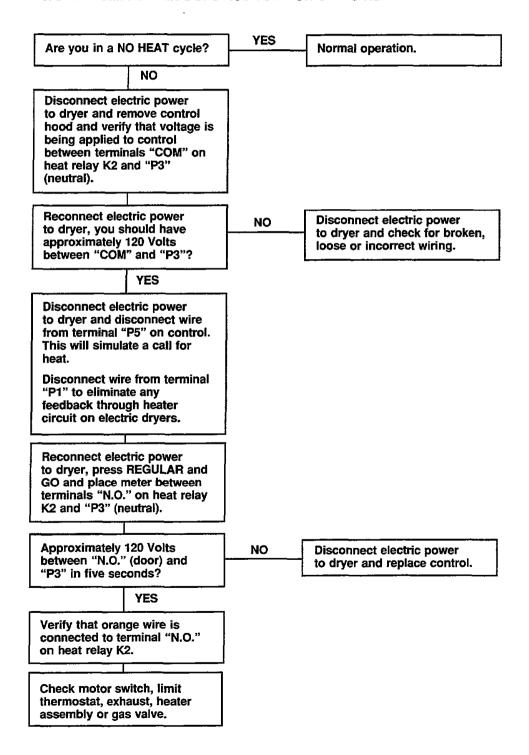


To reduce the risk of electric shock, fire, explosion, serious injury or death:

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

W001

78. SYMPTOM: HEATER DOES NOT TURN ON OR NO HEAT.

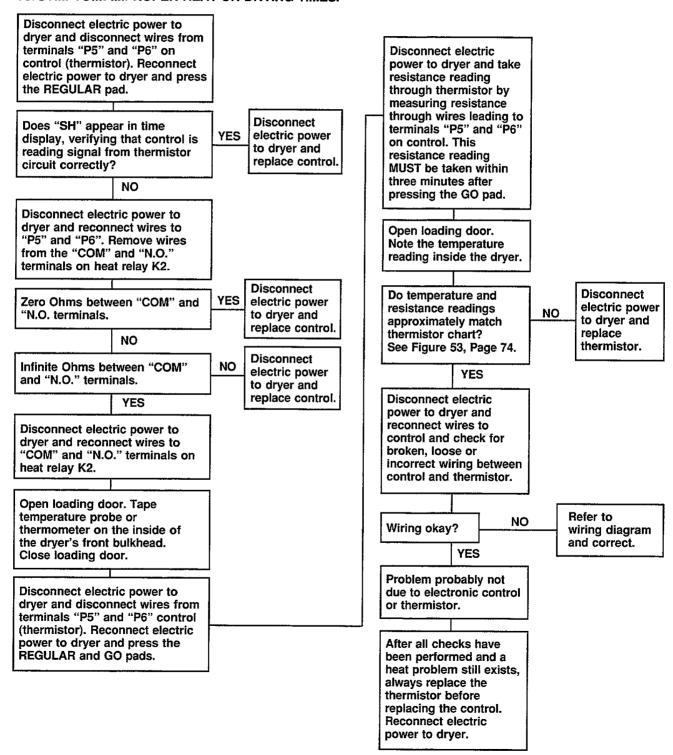


To reduce the risk of electric shock, fire, explosion, serious injury or death:

- 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

79. SYMPTOM: IMPROPER HEAT OR DRYING TIMES.



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

Thermistor Chart					
Temp. °F	Resistance Ohms	Temp. °F	Resistance Ohms	Temp. °F	Resistance Ohms
-20	826000	55	87200	125	16900
-15	697000	60	76600	130	15200
-10	590500	65	67350	135	13800
- 5	501500	70	59400	140	12400
0	427000	75	52500	145	11300
5	364800	77	50000	150	10200
10	312500	80	46500	155	9300
15	268400	85	41300	160	8400
20	231200	90	36700	165	7700
25	199600	95	32700	170	7000
30	172800	100	29100	175	6400
35	150000	105	26100	180	5900
40	130500	110	23300	185	5400
45	113800	115	20900	190	4900
50	99500	120	18800	195	4500

Figure 53

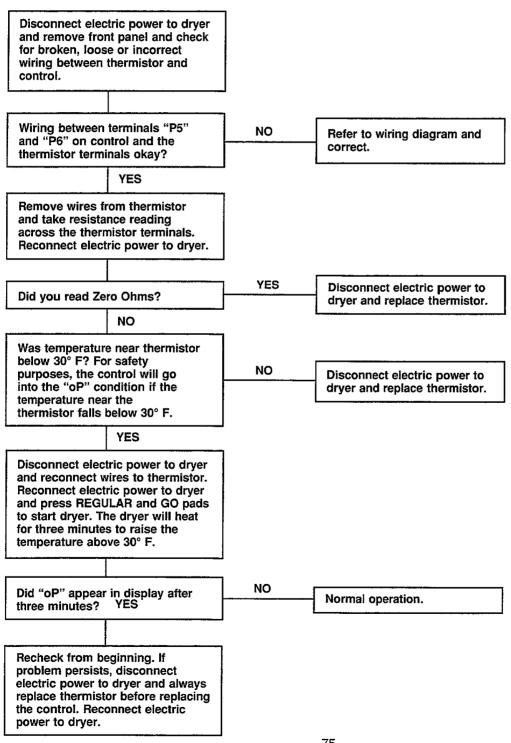
NOTE: As temperature decreases, resistance increases. As temperature increases, resistance decreases.

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 drver 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

80. SYMPTOM: "oP" APPEARS IN TIME DISPLAY



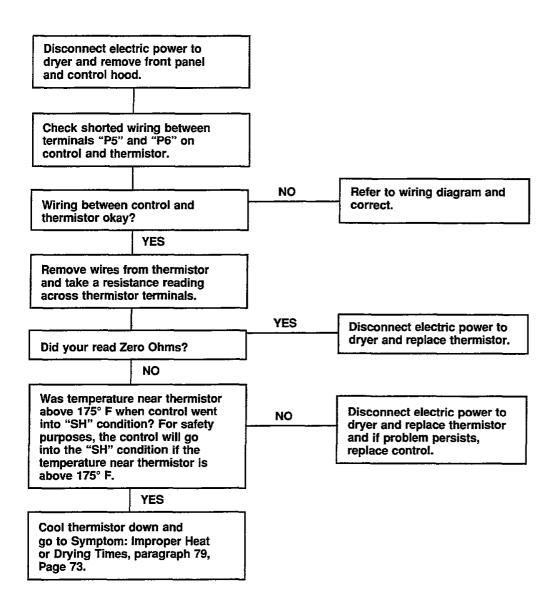
AWARNING .

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

81. SYMPTOM: "SH" APPEARS IN TIME DISPLAY



AWARNING .

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

82. CONTROL REPLACEMENT (Figure 52)

When a problem with the electronic control is detected during the diagnostic cycle, or while making the electrical tests we have discussed, the control is replaced as a complete unit. Due to the sensitivity of the electronic control, careful handling is required. As a precautionary measure, we recommend the use of a grounded wrist strap when handling the electronic controls. The wrist strap, cord and alligator clip are designed to carry away any electrostatic charge from your body and to direct the charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with the handling of the electronic control will be minimized. Always handle the electronic control by the metal edges. If a wrist strap is not available, touch the dryer while it is plugged in before handling the control to dissipate any charge.

To replace the control, first unplug the dryer. Remove all of the wires connected to the control and take out the screws securing the control to the control hood. When removing wires from the control, hold down on the board near the appropriate terminal, and disconnect the wires using a pliers. Do not pull on wires.

The new control is supplied in a special anti-static wrapping, and protected by anti-static foam. While holding the metal edges, remove the control from the foam and the wrapping. Lift the inoperative control off the mounting bracket and place it on the anti-static wrapping. Before positioning the new control in the control hood, peel off the protective plastic coating from the front side of the control, then fasten the control down with the screws. Following the wiring diagram, reconnect the wires to the new control, then replace the control hood.

IMPORTANT: Take care when handling the original control. It must be carefully placed in the anti-static wrapping and the anti-static foam which was removed from the new control. A copy of the replacement report, shown on *Page 78*, must be completely filled out and returned with the control. Warranty credit will not be issued if the control is not wrapped properly.

Electronic Control Board Replacement Report

Installation Date:	Date Failed:	
Model No	Serial No.:	
	Service Company Identification No.:	
What was the customer's complaint?		
2. Mark the cause of the complaint in the appro	opriate box below:	
Washer Control Failure	<u>Dryer Control Failure</u>	
☐ Failure in Diagnostic Cycle	☐ Failure in Diagnostic Cycle	
Transformer: ☐ Resistance not in 60-112 Ohm range betwee P4 and P1?	Transformer: □ Resistance not in 116-216 Ohm range between P3 and "COM"?	
Hot Water Relay K4: ☐ 120 Volts not found between P7 and P1 in hot fill?	Motor Relay K1: ☐ 120 Volts not found between P1 and P3?	
Cold Water Relay K5: 120 Volts not found between P8 and P1 in cold fill?	Heat Relay K2: ☐ With P5 and P1 disconnected, 120 Volts not found between "N.O." and P3?	
Main Motor Relay K3: ☐ 120 Volts not found between "COM" and P1 in agitation?	☐ Zero Ohms found between "COM" and "N.O." (with dryer unplugged)? Temperature Regulating Circuit:	
☐ 120 Volts not found between "COM" and P1 in spin?	"SH" appears in the display window when the exhaust temperature is less than 175°F?	
Agitation Relay K1: ☐ 120 Volts not found between P2 and P1 in agitation?		
☐ 120 Volts found between P2 and P1 in spin?		
Spin Relay K2: 120 Volts not found between P3 and P1 during spin?		
☐ 120 Volts found between P3 and P1 during agitation?		
Additional Comments:		

Both copies of this form <u>must</u> be completed and returned with the control board. Warranty is void if control board is returned improperly packed or damaged.