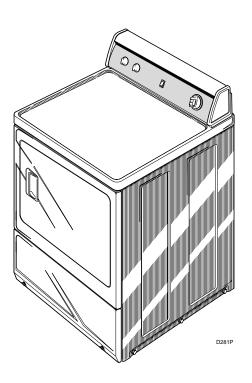
# Dryers

Nonmetered See Page 5 for Model Numbers





## **Table of Contents**

Section	1 – Safety Information3	Section 5 – Service Procedures	.21
a 4•		18. Control Hood Assembly	21
	2 – Introduction5	19. Control Hood End Caps	21
-	plate Location5	20. Graphic Panel	21
	I Identification5	21. Timer	21
How Y	Your Dryer Works6	22. Fabric Selector Switch	
Section	3 – Troubleshooting7	23. Signal	22
	otor Does Not Run7	24. Access Panel	24
	nit Stops In Cycle; Quits After The First Few	25. Lint Filter	25
	pads; Has A Burning Smell; Cycles On Motor	26. Loading Door And Door Hinge	25
	nermal Protector8	27. Inner And Outer Door Panels And Door Pull.	.27
	otor Runs But Cylinder Does Not Turn9	28. Door Strike	29
	otor Does Not Stop9	29. Door Seal	29
	eating Assembly Does Not Heat Or Burner	30. Front Panel And Panel Seal	30
	pes Not Ignite10	31. Door Switch	30
6. Igi	niter Does Not Glow (Gas Supply Sufficient)	32. DOOR CATCH	30
	as Models)11	33. Door Hinge	32
	urner Ignites And Goes Out	34. Hold-down Clips And Locators	
Re	epeatedly (Gas Models)11	35. Burner System Components (Gas Models)	
	niter Glows But Burner	36. Burner Housing And Heat	
	pes Not Ignite (Gas Models)11	Shroud (Gas Models)	34
	eater Assembly Or Burner	37. Limit Thermostat (Gas Models)	35
	auts Off Prematurely	38. Heating Element (Electric Models)	35
	eater Assembly Or Burner Repeatedly	39. Thermostat And Heater	
	vcles Off On Limit Thermostat12	40. Air Duct	36
	eater Assembly Or Burner Des Not Shut Off13	41. Motor And Exhaust Assembly	37
	othes Do Not Dry	42. Cabinet Top	
	mer Does Not Advance In Automatic Cycle 14	43. Front Bulkhead Assembly	
	othes Are Too Hot	44. Cylinder Belt	
	hen Removed From Dryer15	45. Cylinder Assembly	
***	non removed rom Bryermannin	46. Cylinder Rollers	
Section	4 – Grounding17	47. Outlet Cover	
15. Gr	round Wires From Terminal Block To Rear	48. Rear Bulkhead And Heater Box	48
	ılkhead And From Rear Bulkhead To Control	49. Terminal Block Or Power Cord	
	ousing (Electric Models Only)17	50. Cabinet	
	round Wires From Power Cord To Rear	51. Base	
	ulkhead And From Rear Bulkhead To Control		
	ousing. Check Wall Receptacle Polarity (Gas odels Only)	Section 6 – Adjustments	.55
	round Wires From Rear Bulkhead To Timer	52. Leveling Legs	55
	ounting Bracket And To Dryer Cabinet Top.	53. Burner Flame (Gas Models)	56
	ound Wires From Timer Mounting Bracket To		
	raphic Panel19		

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Section 7 – Test Procedures5	7
54. Drive Motor5	57
55. Burner System Operation	
– Silicon Carbide Ignition6	50
56. Electrical Circuit To Ignition System	
- Silicon Carbide Ignition6	51
57. Gas Valve Coils Check	
<ul> <li>Silicon Carbide Ignition6</li> </ul>	51
58. Sensor Check – Silicon Carbide Ignition6	52
59. Igniter Check – Silicon Carbide Ignition6	52
60. Thermal Fuse (Electric Models)6	52
61. Heater Assembly (Electric Models)6	53
62. Cycling Or Limit Thermostat6	53
63. Thermostat Heater6	53
64. Fabric Selector Switch6	54
65. Signal6	54
66. Timer Advance And Timer Contact Points6	54
67. Door Switch6	56
Section 8 – Internal Wiring Of	
Dryer Motor Switch6	7

# Section 1 Safety Information

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

#### **▲** DANGER

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

#### **▲** WARNING

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

#### **A** CAUTION

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

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

#### **IMPORTANT**

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

#### **NOTE**

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

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



#### **WARNING**

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

W006R1



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

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

W001R1



#### **WARNING**

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

W007



#### **WARNING**

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

W008

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

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

#### **Locating an Authorized Servicer:**

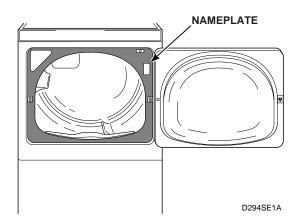
Alliance Laundry Systems is not responsible for personal injury or property damage resulting from improper service. Review all service information before beginning repairs.

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

## Section 2 Introduction

### Nameplate Location

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



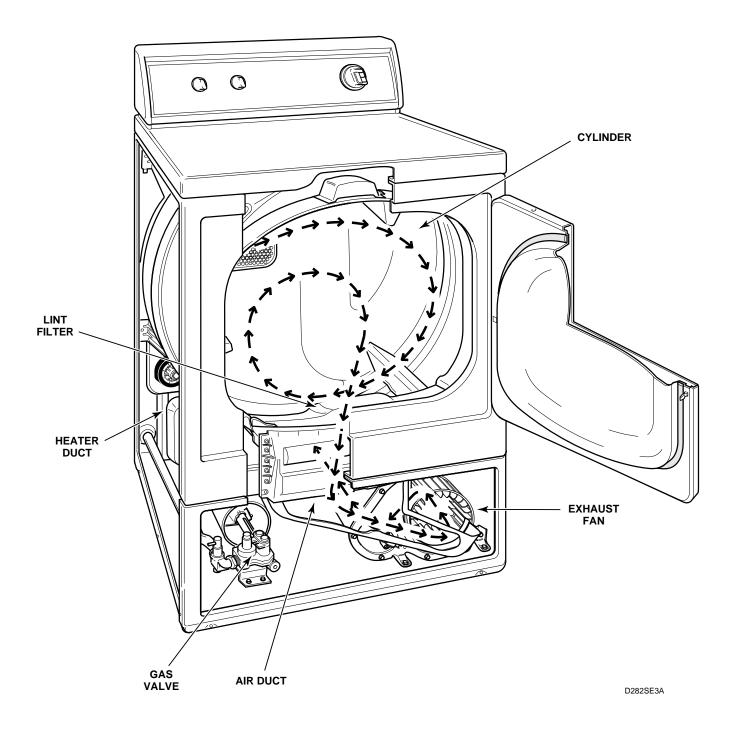
### Model Identification

Information in this manual is applicable to these dryer models.

MODEL NUMBER	ELECTRIC HEAT	GAS HEAT
LES19A*	X	
LES33A*	X	
LES37A*	X	
LGS19A*		X
LGS19A*-1188		X
LGS33A*		X
LGS37A*		X

<sup>\*</sup> Add Letter To Designate Color. L - Almond W - White

## How Your Dryer Works



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

## Section 3 Troubleshooting



#### **WARNING**

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

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

W001R1

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

#### 1. MOTOR DOES NOT RUN

POSSIBLE CAUSE	TO CORRECT
Electrical power off, fuse blown, or power cord not plugged in.	• Check laundry room for blown or loose fuse(s), or open circuit breaker(s). The dryer itself does not have an electrical fuse.
	Check both fuses for electric models.
Loading door not closed.	Close door.
Inoperative door switch.	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. Doesn't start; or motor just hums.	• Refer to <i>Paragraph 54</i> to check motor switch and motor windings.
Motor won't run.	• Refer to <i>Paragraph 54</i> to check motor switch, motor windings, and main windings.
Motor overload protector has cycled.	• Wait two or three minutes for overload protector to reset. If protector cycles repeatedly, refer to <i>Paragraph 2</i> .
Motor centrifugal switch sticky or plugged with lint.	• Remove dust or lint and spray with "SLYDE," No. 131P4, to clean and lubricate.
Bind in motor bearing.	Remove belts and determine if motor shaft will spin.
	Replace motor if shaft is locked up.
Loose motor wire harness connection block.	Firmly press connection block onto motor switch.
Broken, loose, or incorrect wiring.	Refer to wiring diagram.
Power cord is miswired.	Refer to wiring diagram for the correct wiring.



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

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

W001R1

## 2. UNIT STOPS IN CYCLE; QUITS AFTER THE FIRST FEW LOADS; HAS A BURNING SMELL; CYCLES ON MOTOR THERMAL PROTECTOR

POSSIBLE CAUSE	TO CORRECT
Incorrect voltage.	See nameplate in door well for correct voltage.
	• Refer to INSTALLATION INSTRUCTIONS (supplied with dryer) for electrical requirements.
Clothes load too large.	Remove part of load. Maximum load: dryer cylinder one half full of wet clothes.
Clothes cylinder is binding.	Check cylinder for binding and "out of round" condition.
	<ul> <li>Check front and rear bulkheads for warping.</li> </ul>
	Check support rollers for binding.
	Check cylinder seals and glides for wear or damage.
	<ul> <li>Check for clothes lodged between cylinder baffle and bulkhead.</li> </ul>
Broken, loose or incorrect wiring.	Refer to wiring diagram.
Motor switch functions inoperative. Short in motor winding.	Refer to Paragraph 54 to check switch and windings.
Clothes caught in fan.	Check fan for obstruction.



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

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

W001R1

#### 3. MOTOR RUNS BUT CYLINDER DOES NOT TURN

POSSIBLE CAUSE	TO CORRECT
Motor drive pulley loose.	Tighten pulley.
Belt not installed on pulley.	• Install belt. Refer to Figure 19.
Broken cylinder belt.	Replace belt.
Clothes cylinder is binding.	• Check cylinder for binding and "out of round" condition.
	Check front and rear bulkheads for warping.
	Check cylinder rollers for binding.
	Check cylinder seals and glides for wear or damage.
Broken, weak or disconnected idler lever spring.	• Replace or reconnect spring. Refer to Figure 20.
Belt routed on wrong side of idler lever.	• Reroute belt. Refer to Figure 19.
Oil on cylinder.	Wipe oil from cylinder.
Belt is "inside out."	Reinstall belt with ribbed surface against cylinder.
Idler arm is binding.	Add grease between idler arm and motor mount.
	Replace idler arm and bolt if needed.
Dryer is overloaded.	Remove some laundry from dryer.
Wrong motor.	Refer to parts manual for correct motor part number.
Wrong belt used on dryer.	Check belt part number against correct part number in the Parts manual.
	Replace belt if needed.
Bent idler arm.	Replace idler arm.

#### 4. MOTOR DOES NOT STOP

POSSIBLE CAUSE	TO CORRECT
Incorrect wiring to motor switch.	Refer to wiring diagram.
Motor centrifugal switch sticky or plugged with lint.	• Remove dust or lint and spray with "SLYDE," Part 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.



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

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

W001R1

#### 5. HEATING ASSEMBLY DOES NOT HEAT OR BURNER DOES NOT IGNITE

POSSIBLE CAUSE	TO CORRECT
Improper or inadequate exhaust system.	See INSTALLATION INSTRUCTIONS (supplied with dryer) for exhaust requirements.
Use of plastic or thin foil exhaust duct.	Replace with solid or rigid flexible metal exhaust duct.
Blown house fuse or tripped circuit breaker.	Check fuses or circuit breakers. A 240 Volt dryer uses two fuses. Make sure both fuses are good.
Temperature selector switch set at FLUFF, or inoperative.	Reset 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.
Inoperative drive motor switch.	Test switch and replace if inoperative.
Electric Models: Inoperative heater assembly.	• Test heater assembly and replace if cold Ohms do not read between 9 and 10.5 Ohms.
Electric Models: Inoperative thermal fuse.	Test thermal fuse 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.
Gas Models: Inoperative gas valve coils.	• Test coils ( <i>Paragraph 57</i> ) and replace if inoperative.
Gas Models: Inoperative flame sensor.	• Test flame sensor ( <i>Paragraph 58</i> ) and replace if inoperative.
Gas Models: Inoperative igniter.	• Test igniter ( <i>Paragraph 59</i> ) and replace if inoperative.
Gas Models: Harness not properly connected to gas controls.	Check harness connections to gas valve coils, sensor and main harness.
	Reconnect as required.
Gas Models: Restricted gas flow in gas orifice.	Clean out gas orifice.
Inoperative cycling thermostat.	Test thermostat and replace if inoperative.
Inoperative timer.	Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	Refer to wiring diagram.



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

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

W001R1

#### 6. 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.

#### 7. 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.
	Make sure gas shut-off valve is turned on.
Cracked igniter.	Replace igniter and bracket.
Inoperative or intermittent gas valve coils.	• Check coils ( <i>Paragraph 57</i> ) and replace appropriate coils.

#### 8. 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). Refer to <i>Paragraph 57</i> .
Insufficient gas supply.	Check gas supply and pressure.
	Make sure gas shut-off valve is 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.



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

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

W001R1

#### 9. 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 main gas line shut-off valve.
	Open partially closed gas shut-off valve, or correct low pressure.
Gas Models: Dryer not properly equipped for type of gas used.	Refer to "Gas Burner Conversion Procedures" supplied in gas burner conversion kit.
Gas Models: Improperly adjusted burner flame.	• Adjust flame. Refer to Paragraph 53.
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 10.
Gas models: Flame sensor contact closing.	• Replace flame sensor ( <i>Paragraph 35</i> , step "c") or adjust burner flame. Refer to <i>Paragraph 53</i> .
Inoperative cycling thermostat.	Test thermostat and replace if inoperative.
Inoperative timer.	Test timer and replace if inoperative.
Broken, loose, or incorrect wiring.	Refer to wiring diagram.

#### 10. 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. Refer to Paragraph 37.
Air leak around loading door. (Door not sealing due to damaged seal or inoperative door catch.)	Replace seal or catch.
Air leak at blower seal.	Check and replace seal if necessary.
Air leak at cylinder seal(s).	Check and replace seal(s) if necessary.



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

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

W001R1

#### 11. 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 4.
Incorrect wiring.	Refer to wiring diagram.
Heater assembly shorted.	Remove heater assembly and check for short.

#### 12. CLOTHES DO NOT DRY

POSSIBLE CAUSE	TO CORRECT
Heater assembly does not heat or burner does not ignite.	• Refer to Paragraph 5.
Too much water in articles being dried.	Remove excess water.
Laundry load too large.	Remove part of load. Maximum load: Dryer cylinder one half full of wet clothes.
Laundry load too small.	Add one or two bath towels to load.
Excessive lint on lint filter.	Clean lint filter.
Automatic cycle.	Adjust timer knob to More Dry setting.
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.
Heater assembly or burner shuts off prematurely.	• Refer to Paragraph 9.
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).	• Check for proper installation. Refer to <i>Figure 19</i> .



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

W001R1

#### 13. TIMER DOES NOT ADVANCE IN AUTOMATIC CYCLE

POSSIBLE CAUSE	TO CORRECT
Inoperative cycling thermostat.	Test thermostat and replace if inoperative.
Inoperative resistor (Electric Models).	• Test resistor ( <i>Paragraph 66</i> , step "d") and replace if inoperative.
Heater assembly does not heat or burner does not ignite.	• Refer to Paragraph 5.
Heater assembly or burner cycles off prematurely.	• Refer to Paragraph 9.
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 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.
	• Refer to Paragraph 66.
Inoperative seals (air leaks).	• Check and replace any inoperative seals in the following areas:
	<ol> <li>Seal between loading door and front panel.</li> <li>Seal between front panel and front bulkhead.</li> <li>Seal between blower cover and air duct.</li> <li>Seal between cylinder and front or rear bulkhead.</li> <li>Seal between upper and lower air ducts.</li> </ol>



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

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

W001R1

#### 14. 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.
Inoperative seals (air leaks).	• Check and replace any inoperative seals in the following areas:
	<ol> <li>Seal between loading door and front panel.</li> <li>Seal between front panel and front bulkhead.</li> <li>Seal between blower cover and air duct.</li> <li>Seal between cylinder and front or rear bulkhead.</li> <li>Seal between upper and lower air ducts.</li> </ol>

# Section 4 Grounding



#### **WARNING**

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

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

W001R1

15. GROUND WIRES FROM TERMINAL BLOCK TO REAR BULKHEAD AND FROM REAR BULKHEAD TO CONTROL HOUSING (ELECTRIC MODELS ONLY). See Figure 1.

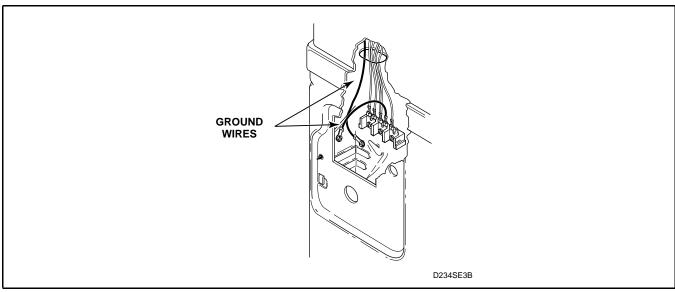


Figure 1



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

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

W001R1

## 16. GROUND WIRES FROM POWER CORD TO REAR BULKHEAD AND FROM REAR BULKHEAD TO CONTROL HOUSING. CHECK WALL RECEPTACLE POLARITY (GAS MODELS ONLY). See Figure 2.

NOTE: A qualified electrician should check the polarity of the wall receptacle. If a voltage reading is measured other than that illustrated, the qualified electrician should correct the problem.

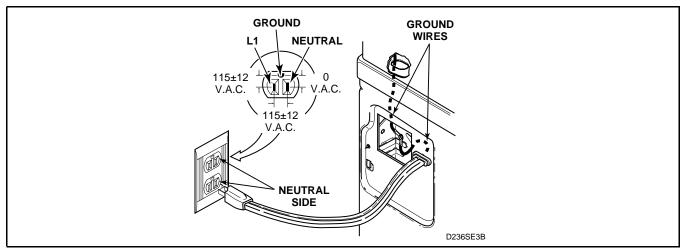


Figure 2



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

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

W001R1

## 17. GROUND WIRES FROM REAR BULKHEAD TO TIMER MOUNTING BRACKET AND TO DRYER CABINET TOP. GROUND WIRES FROM TIMER MOUNTING BRACKET TO GRAPHIC PANEL.

See Figure 3.

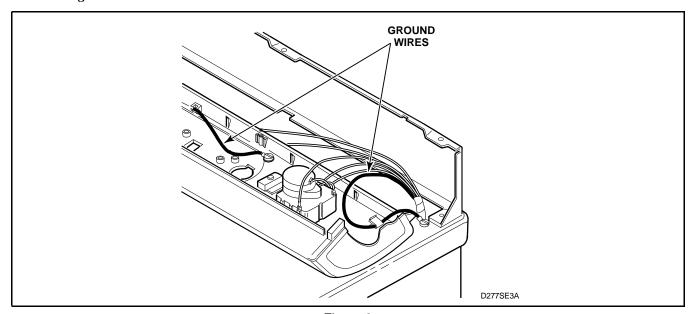


Figure 3

## Section 5 Service Procedures



#### WARNING

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

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

W001R1

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

#### 18. CONTROL HOOD ASSEMBLY

(Figure 4)

- a. Remove three screws holding control hood assembly to control hood rear panel.
- b. Rotate assembly forward to access inner wiring.
- c. Disconnect wiring from inner components and carefully remove components from control hood assembly.

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

d. Rotate control hood assembly forward and lift to free assembly from hold-down clips.

#### 19. CONTROL HOOD END CAPS

(Figure 4)

- a. Remove three screws holding control hood assembly to control hood rear panel.
- b. Rotate assembly forward to access inner wiring.
- c. Disconnect wiring from inner components and carefully remove components from control hood assembly.

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

- d. Remove two screws holding end cap to end of support control panel.
- e. Carefully pry end cap from support control panel.

NOTE: To re-assemble, reverse the steps.

#### 20. GRAPHIC PANEL

(Figure 4)

- a. Carefully pull switch knobs and timer knob off shafts
- b. Remove three screws holding control hood assembly to control hood rear panel.
- c. Rotate assembly forward to access inner wiring.
- d. Disconnect wiring from inner components and carefully remove components from control hood assembly.

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

- e. Remove three screws holding top cover to support control panel. Rotate top cover forward.
- f. Remove screws holding end caps to support control panel and pry off caps.
- g. With graphic panel facing forward, rotate control hood assembly forward to access tabs holding graphic panel.
- h. Bend graphic panel tabs straight out toward rear of hood and pull panel away from support control panel.

#### **NOTE:** To re-assemble, reverse the steps.

#### **21. TIMER**

(Figure 4)

- a. Pull timer knob off timer shaft.
- b. Remove the three screws holding the control assembly to the control hood rear panel.
- c. Rotate assembly forward to access inner wiring.
- d. Disconnect wiring from timer and carefully remove timer from control hood assembly.

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

e. Remove two screws holding timer to support control panel.



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

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

W001R1

#### 22. FABRIC SELECTOR SWITCH

(Figure 4)

- a. Pull fabric selector switch knob off shaft.
- b. Remove three screws holding control hood assembly to control hood rear panel.
- c. Rotate assembly forward to access inner wiring.
- d. Disconnect wiring from switch and carefully remove switch from control hood assembly.

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

- e. Carefully lift locking tab holding fabric selector switch to support control panel.
- f. With locking tab lifted, rotate fabric selector switch counterclockwise 1/4 turn and remove switch out rear of support control panel.

#### 23. SIGNAL

(Figure 4)

- a. Carefully pull signal knob off shaft.
- b. Remove three screws holding control hood assembly to control hood rear panel.
- c. Rotate assembly forward to access inner wiring.
- d. Disconnect wires to the signal.

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

- e. Remove two screws holding the signal to the support control panel.
- f. Carefully remove signal.

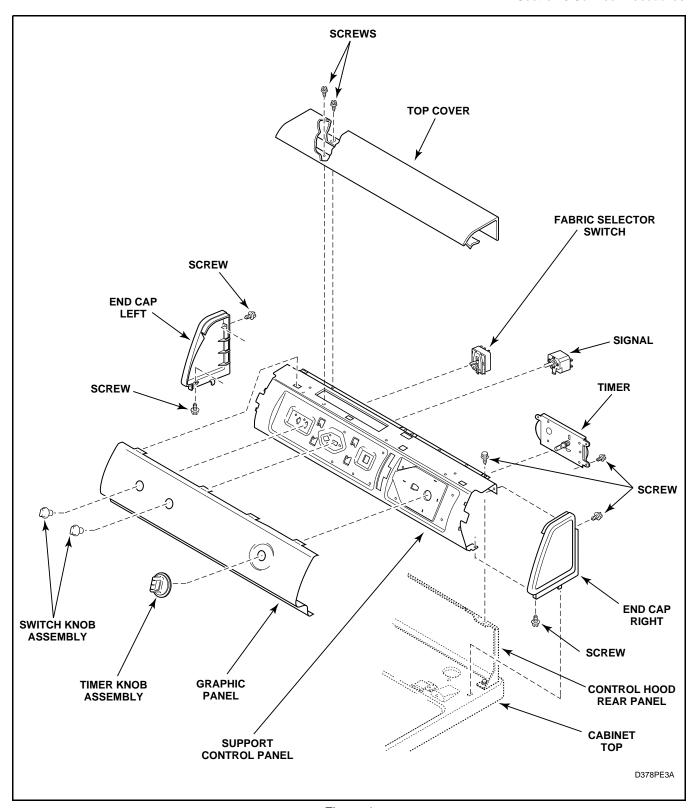


Figure 4

GRAPHIC PANEL, CONTROL HOOD AND CONTROLS



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

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

W001R1

#### 24. ACCESS PANEL

(Figure 5)

- a. While supporting the access panel, remove two screws from bottom edge of access panel.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel.
- c. Remove access panel.

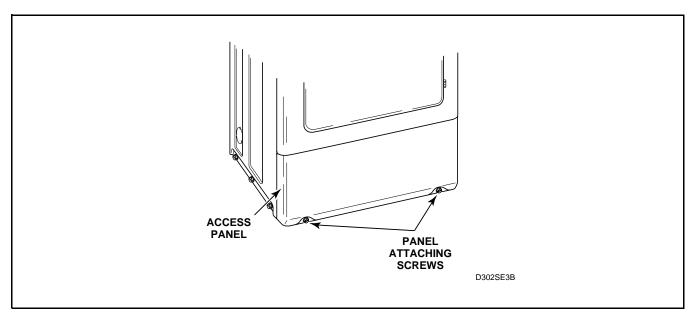


Figure 5



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

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

W001R1

#### 25. LINT FILTER

(Figures 6 or 7)

- a. Open loading door.
- b. Models with secured lint filter: remove screw from end of lint filter. See *Figure 7*.
- c. Lift lint filter out of air duct, paying close attention to orientation.

IMPORTANT: When installing lint filter, be sure to install the filter with the words facing the front of

the dryer. If filter is installed backwards, lint will accumulate in exhaust system, which can adversely affect dryer performance.

#### 26. LOADING DOOR AND DOOR HINGE

- a. Open loading door.
- b. Remove screws holding loading door to hinges. See *Figures 6* or 7.

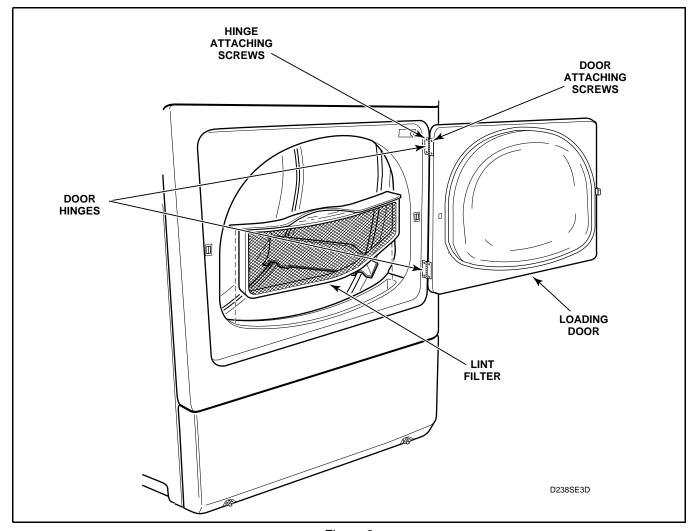
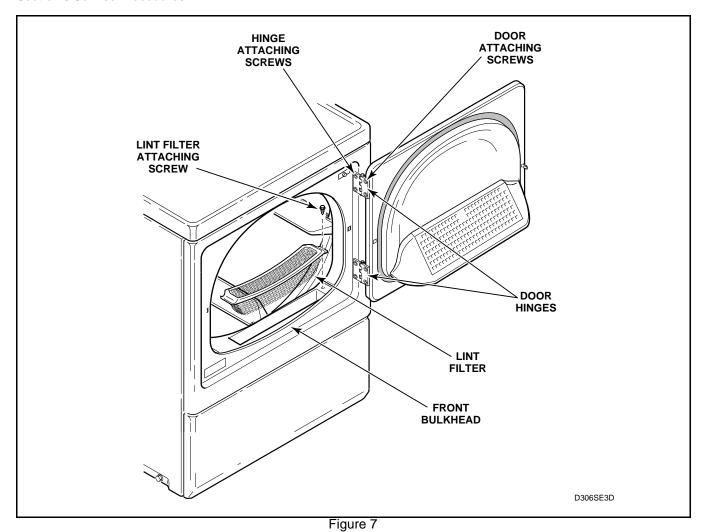


Figure 6

REMOVABLE LINT FILTER



SECURED LINT FILTER



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

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

W001R1

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

- a. Remove four screws holding door assembly to hinges. See *Figures 6* or 7.
- b. Remove remaining screws around the door perimeter and separate panels. See *Figure 9*.
- c. Remove wedge (located behind door pull) by carefully prying up on center of wedge. See *Figure 8*.
- d. Remove door pull. See Figure 8.

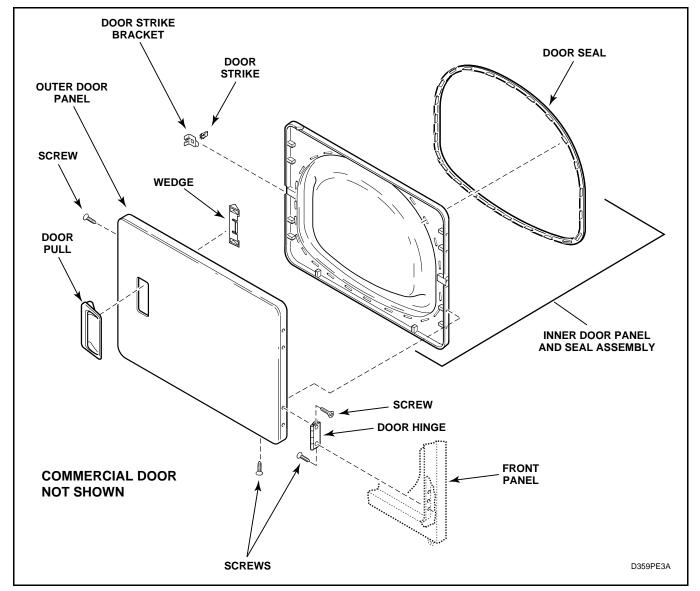


Figure 8

#### **Reversing Door Procedure (Commercial door not shown.)**

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

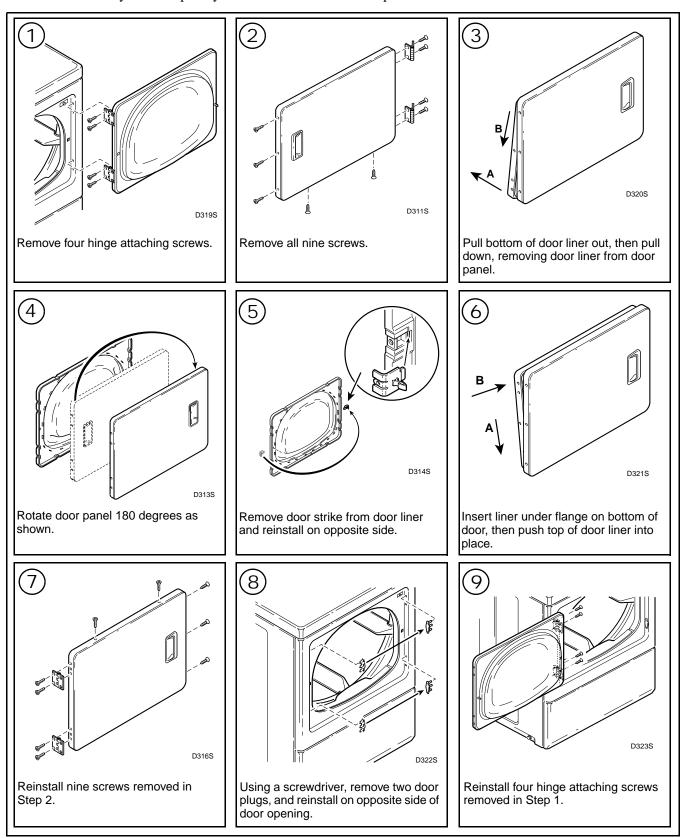


Figure 9



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

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

W001R1

#### 28. DOOR STRIKE

(*Figure 10*)

- a. Open loading door.
- b. Remove screw holding door strike and bracket to loading door and remove strike and bracket.

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

#### 29. DOOR SEAL

(*Figure 10*)

- a. Remove inner door panel from outer door panel. See *Paragraph 27*.
- b. Grasp either end of door seal at bottom of door and remove seal from tabs on inner door panel by gently pulling on the seal. See *Figure 10*.

NOTE: When replacing seal, be sure seal is not stretched or distorted. The tab in the seal should be installed in each slot of the inner door panel, shown in *Figure 10*. The split in the seal must be at the bottom of the door. Make sure that each tab of the seal is fully engaged into the slot.

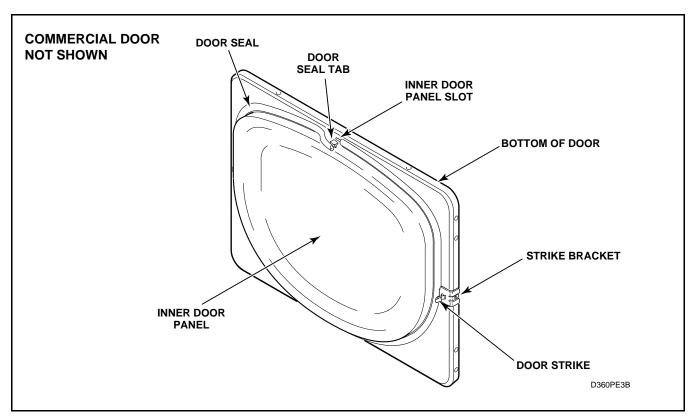


Figure 10



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

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

W001R1

#### 30. FRONT PANEL AND PANEL SEAL

(*Figure 12*)

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Remove two screws holding bottom tabs on front panel to dryer side panels. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch.

## NOTE: Refer to wiring diagram when rewiring switch.

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

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

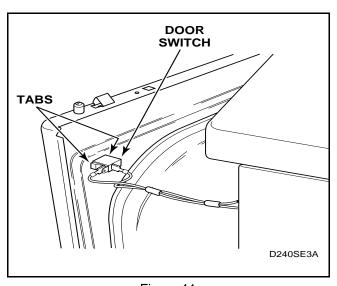


Figure 11

#### 31. DOOR SWITCH

(*Figure 12*)

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Remove two screws holding tabs on front panel to dryer side panels. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch. See *Figure 11*.

## NOTE: Refer to wiring diagram when rewiring switch.

e. Depress tabs on switch and push out of front panel. See *Figure 12*.

#### 32. DOOR CATCH

(*Figure 12*)

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Remove two screws holding bottom tabs on front panel to dryer side panels. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch.

## NOTE: Refer to wiring diagram when rewiring switch.

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

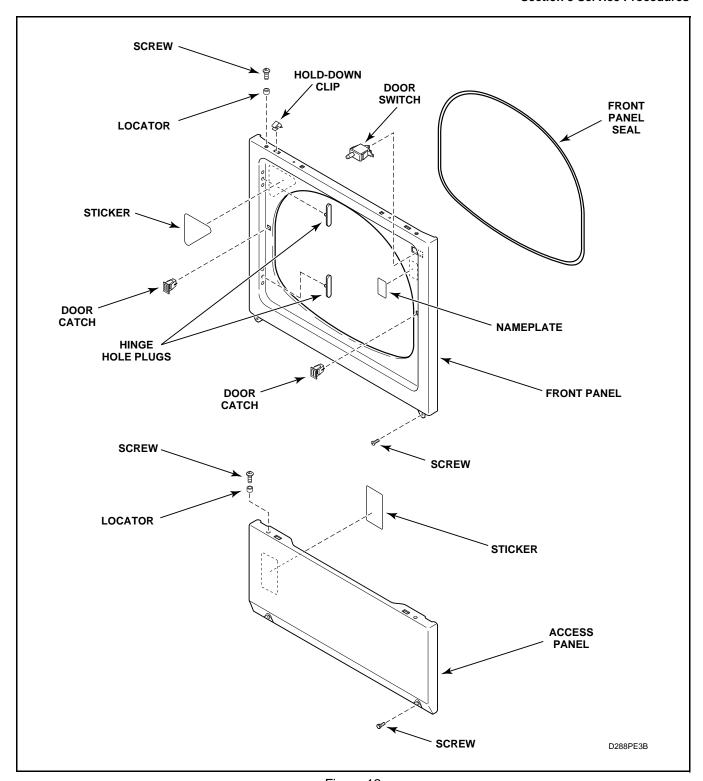


Figure 12



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

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

W001R1

#### 33. DOOR HINGE

(Figures 6 or 7)

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

## 34. HOLD-DOWN CLIPS AND LOCATORS (Figure 12)

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel.
- c. Remove two screws holding bottom tabs on front panel to dryer side panels. Swing bottom edge of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch.

## NOTE: Refer to wiring diagram when rewiring switch.

- e. Compress hold-down clips and remove from top of access panel or front panel.
- f. Remove four screws holding four locators to access panel or front panel.

## 35. BURNER SYSTEM COMPONENTS (GAS MODELS)

- a. Complete Gas Valve Assembly.
  - (1.) While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
  - (2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
  - (3.) Close main gas shut-off valve.
  - (4.) Disconnect igniter wires at disconnect blocks, sensor wires from flame sensor terminals, and wires from gas valve coils at the quick disconnect blocks. See *Figure 13*.

- (5.) Disconnect gas shut-off valve from gas valve at the union nut. See *Figure 13*.
- (6.) Remove three screws holding valve and mounting bracket to base. See *Figure 13*.
- (7.) Lift gas valve and mounting bracket from base. See *Figure 13*.

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

b. Burner Tube, Igniter and Bracket

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

- (1.) Remove one screw from right side of burner housing holding burner tube in place. See *Figure 15*.
- (2.) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. See *Figure 13*.
- (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. See *Figure 14*.

IMPORTANT: Use care while removing igniter to avoid damaging or breaking it. The igniter is very fragile.

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.

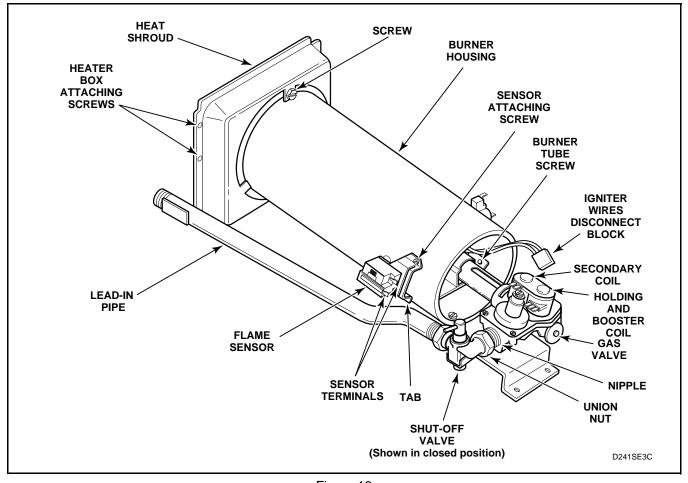


Figure 13

#### c. Flame Sensor

- (1.) While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- (2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- (3.) Remove wires from flame sensor terminals. See *Figure 13*.
- (4.) Remove screw holding flame sensor to burner housing. See *Figure 13*.

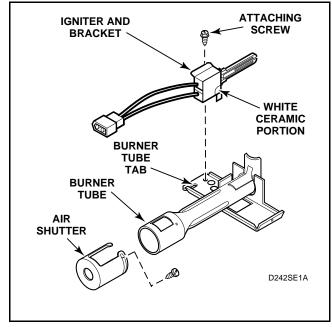


Figure 14



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

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

W001R1

## **36. BURNER HOUSING AND HEAT SHROUD** (Gas Models)

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Disconnect igniter wires at disconnect blocks, sensor wires from flame sensor terminals, and wires from gas valve coils at the quick disconnect blocks. See *Figure 13*.
- d. Remove screw from right side of burner housing, while holding burner tube in place. See *Figure 15*.
- e. Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. See *Figure 13*.

- 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 the right and CAREFULLY remove burner tube and igniter assembly out through front of dryer.

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

- h. Remove screw holding burner housing to heat shroud. See *Figure 13*.
- i. Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. See *Figure 15*.
- j. Remove two screws holding heat shroud to heater box and take heat shroud out through front of dryer.



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

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

W001R1

#### 37. LIMIT THERMOSTAT

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Disconnect wires and remove screws attaching limit thermostat to burner housing or heater assembly. See *Figure 15*.
- d. Repeat procedure on models with more than one thermostat.

#### 38. HEATER ASSEMBLY (Electric Models)

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Disconnect wires from element and plate. See *Figure 15*.
- d. Remove two screws holding element and plate to heater box and remove element and plate out through front of dryer. See *Figure 15*.

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

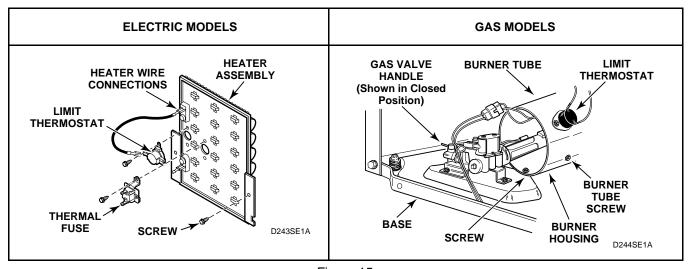


Figure 15



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

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

W001R1

#### 39. THERMOSTAT AND HEATER

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Disconnect wires and remove thermostat attaching screws, thermostat and heater, if present. See *Figure 16*.

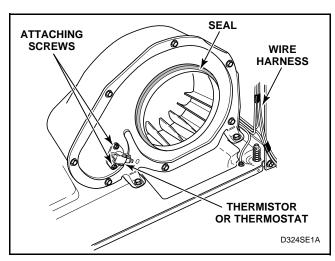


Figure 16

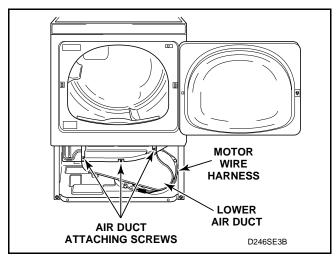


Figure 17

#### 40. AIR DUCT

- a. Lower Air Duct
  - (1.) While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
  - (2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.

IMPORTANT: When installing lint filter, be sure to install the filter with the words facing the front of the dryer. If filter is installed backwards, lint will accumulate in exhaust system, which can adversely affect dryer performance.

(3.) Remove three screws holding lower duct to upper duct and remove lower air duct. See *Figure 17*.



#### **WARNING**

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

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 16*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

- b. Upper Air Duct
  - (1.) While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
  - (2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
  - (3.) Remove three screws holding upper air duct to lower air duct.



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

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

W001R1

- (4.) Remove three screws holding upper air duct to front bulkhead.
- (5.) Carefully lift upper air duct out of dryer.

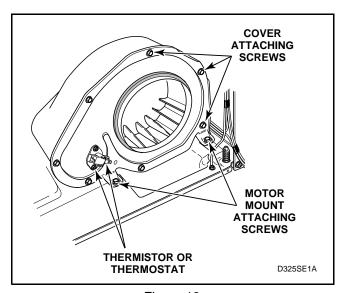


Figure 18

#### 41. MOTOR AND EXHAUST ASSEMBLY

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Open loading door and lift filter out. See *Figure 8*.
- d. Remove screws holding lower air duct to upper air duct and remove lower air duct. See *Figure 17*.



#### **WARNING**

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

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 16*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

e. Disconnect wires from thermostat (and heater, if present) then disconnect ground wire screw.

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

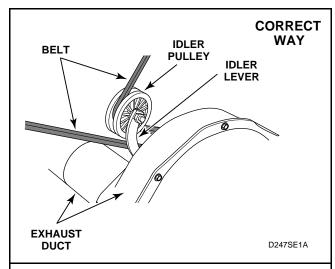
- f. Remove cylinder belt from idler and motor pulleys. See *Figure 19*.
- g. Disengage motor wire harness terminal block from motor switch by pressing in on the movable locking tabs (located on each end of the terminal block) and pulling away from motor. See Figures 20 and 22.
- h. Remove two screws holding motor mounting bracket to dryer base. See *Figure 18*.



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

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

W001R1



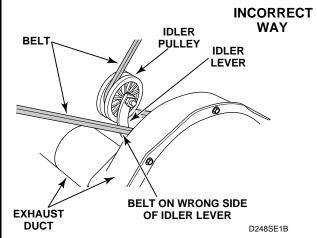


Figure 19



#### WARNING

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

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 16*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

IMPORTANT: When reinstalling motor and exhaust assembly, be sure wire harness on right side is clipped to motor mounting bracket and is routed along dryer base (between motor mounting bracket and right side of cabinet). See *Figure 16*. Tab on rear of motor mounting bracket must be slid into slot in dryer base. Be sure the belt has been installed on the correct side of the idler lever. See *Figure 19*.

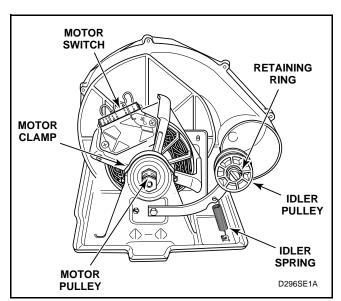


Figure 20

- i. Pull assembly forward and disengage the middle exhaust duct.
- j. Rotate the assembly  $90^{\circ}$  counterclockwise and slide out through front of dryer.



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

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

W001R1

k. **Motor pulley and idler pulley assemblies** See *Figure 20* for motor and idler pulley removal.

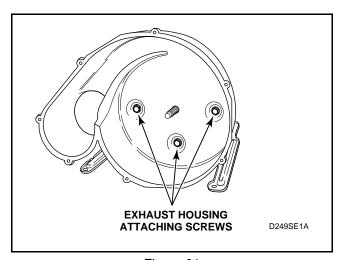


Figure 21

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

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

#### 1. Impeller and housing

- (1.) Remove screws holding cover to housing. See *Figure 18*.
- (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. See *Figure 21*.



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

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

W001R1

#### m. Motor

(1.) Disengage motor wire harness terminal block from the motor by pressing in on the movable locking tabs (located on each side of the terminal block) and pulling away from motor. See *Figures 22* and *23*.

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

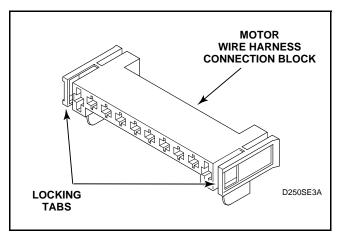


Figure 22

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

(2.) Pry two motor clamps off motor mounting bracket with screwdriver. See *Figure 20*, then lift motor out of mounting bracket.

NOTE: When replacing motor, motor switch should be at 10 o'clock position. The positioning tab on the motor should be engaged with the antirotating notch in the motor bracket.

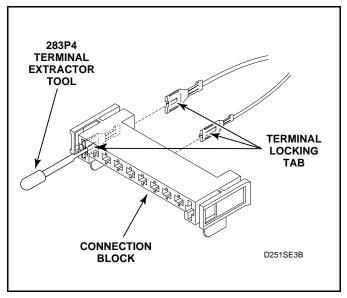


Figure 23

#### n. Motor Connection Block Terminals

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

- (1.) Insert the tool into the block on the back of the terminal being removed. See *Figure 23*.
- (2.) Apply tool pressure to compress the terminal locking tab on terminal and force the terminal and wire out back side of connection block. See *Figure 23*.

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.



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

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

W001R1

#### 42. CABINET TOP

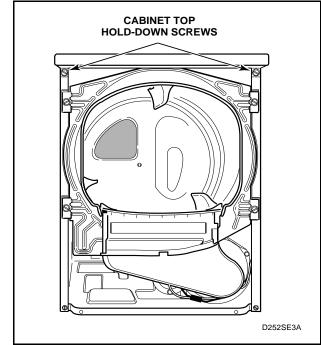
- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 12*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch. See *Figure 11*.

### NOTE: Refer to wiring diagram when rewiring switch.

- e. Remove two cabinet top hold-down screws. See *Figure 24*.
- f. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. See *Figure 24*.

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

g. Carefully withdraw wire harness through hole in cabinet top and lift the top off the top brackets. See *Figure 24*.



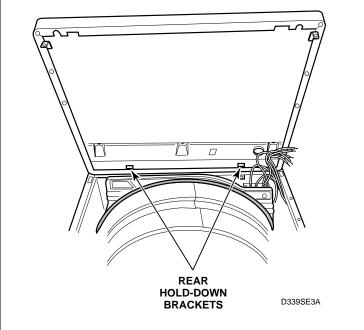


Figure 24



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

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

W001R1

#### 43. FRONT BULKHEAD ASSEMBLY

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 12*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch. See *Figure 11*.

### NOTE: Refer to wiring diagram when rewiring switch.

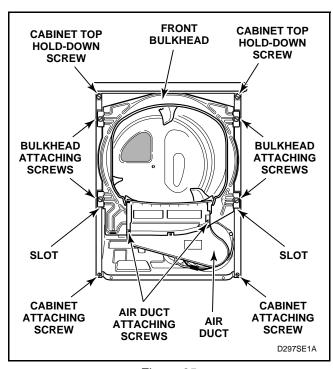


Figure 25



#### **WARNING**

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

W005

- e. Disengage belt from motor and idler pulley. See *Figure 20*.
- f. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet. See *Figure 25*.

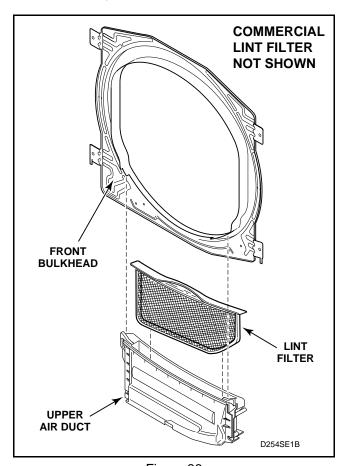


Figure 26



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

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

W001R1

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 16*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

- g. Remove upper and lower air duct assembly.
- h. Cylinder Glides and Glide Bracket. See *Figure 27*.
  - (1.) Unsnap glide from each glide bracket.
  - (2.) Drill out rivets holding glide bracket to front bulkhead.
- i. Front Cylinder Seal (*Figure 28*) When installing the cylinder seal, it is important to remember these two important steps:
  - (1.) The stitching on the seal must face towards the dryer center.
  - (2.) The short flap must be glued to the bulkhead and the long flap left loose.

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

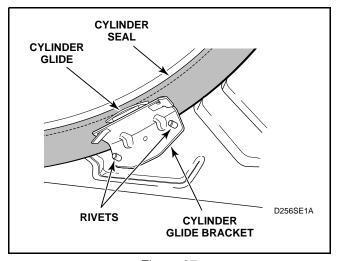


Figure 27

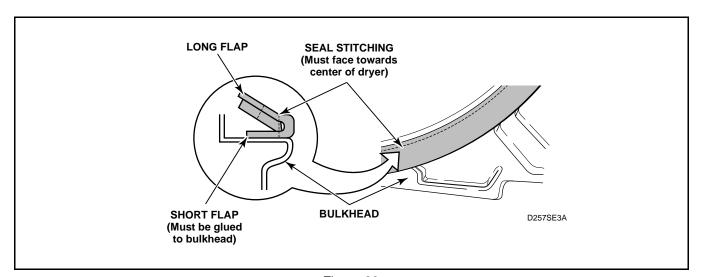


Figure 28



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

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

W001R1

#### 44. CYLINDER BELT

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 12*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch. See *Figure 11*.

### NOTE: Refer to wiring diagram when rewiring switch.

- e. Disengage belt from motor and idler pulleys. See *Figure 19*.
- f. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet. See *Figure 25*.

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 16*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

g. While supporting cylinder, carefully remove belt from cylinder.

NOTE: Be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. See *Figure 19*. Belt must be positioned around cylinder between center and rear baffle screws with the ribbed surface against the cylinder. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.



#### **WARNING**

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

W005



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

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

W001R1

#### 45. CYLINDER ASSEMBLY

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 12*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch. See *Figure 11*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. See *Figure 19*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys, and is on the correct side of the idler lever. See *Figure 19*. Belt must be positioned around cylinder between center and rear baffle screws with the ribbed surface against the 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. See *Figure 25*.



#### **WARNING**

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

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 16*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

- g. Remove two cabinet top hold-down screws. See *Figure 25*.
- h. Carefully remove cylinder out through front of dryer.
- i. Baffles Remove screws holding baffles to cylinder. See *Figure 29*.

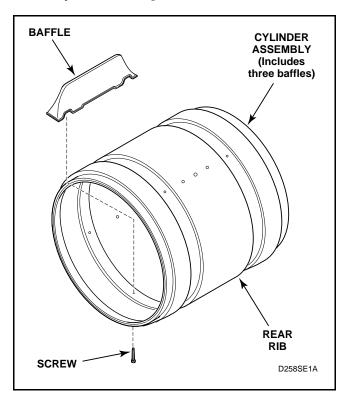


Figure 29

#### **Section 5 Service Procedures**

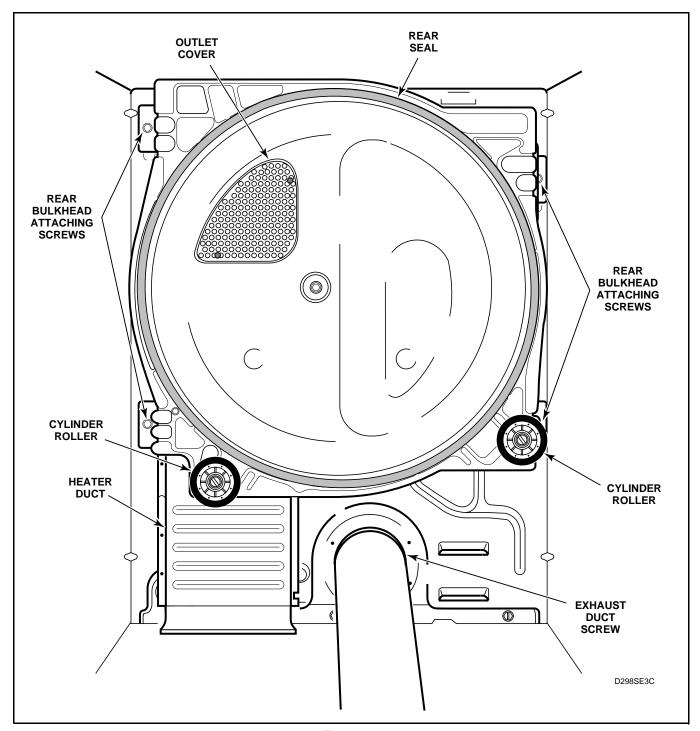


Figure 30



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

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

W001R1

#### **46. CYLINDER ROLLERS**

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 12*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch. See *Figure 11*.

### NOTE: Refer to wiring diagram when rewiring switch.

- e. Disengage belt from motor and idler pulleys. See *Figure 19*.
- f. Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. See *Figure 25*.



#### **WARNING**

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

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 16*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

- g. Pull cylinder forward allowing rear of cylinder to drop down exposing rollers. See *Figure 31*.
- h. See *Figure 31* for removal of roller from bulkhead.

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

#### 47. OUTLET COVER

NOTE: Outlet cover is not removable from the heater duct assembly that originally came with the dryer. It is only removable from the replacement heater duct assembly, Part No. 503607P.

a. Open door and remove two screws holding outlet cover to heater duct assembly. See *Figure 30*.

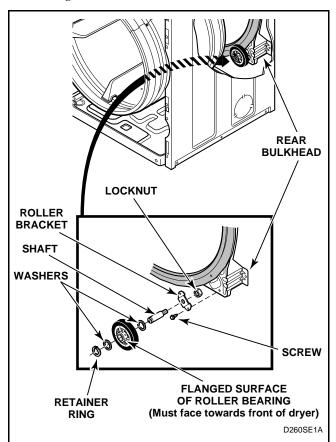


Figure 31



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

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

W001R1

#### 48. REAR BULKHEAD AND HEATER DUCT

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Remove two screws from bottom tabs on front panel. See *Figure 12*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch. See *Figure 11*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. See *Figure 19*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler lever. See *Figure 19*. Belt must be positioned around cylinder between center and rear baffle screws with the ribbed surface against the 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. See *Figure 25*.



#### **WARNING**

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

W005

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 16*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

- g. Remove two cabinet top hold-down screws. See *Figure 24*.
- h. 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. See *Figure 13*.
- (2.) Remove burner tube attaching screw from right side of burner housing, while holding burner tube in place. See *Figure 15*.
- (3.) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. See *Figure 14*.
- (4.) Carefully rotate burner tube and igniter **counterclockwise** so tab is at the 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. See *Figure 14*.

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

- (6.) Remove screw holding burner housing to heat shroud. See *Figure 13*.
- (7.) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. See *Figure 15*.
- (8.) Remove two screws holding shroud to heater box, and remove shroud out through front of dryer. See *Figure 13*.



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

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

W001R1

#### j. Electric Models:

- (1.) Remove two screws holding element and plate to heater duct, then pull element down and away from heater duct. See *Figure 15*.
- (2.) Remove all wires from terminal block.

NOTE: Refer to wiring diagram when rewiring terminal block.

- (3.) Remove screw holding terminal block to rear bulkhead. See *Figure 33*.
- (4.) While supporting bulkhead, remove the four screws holding rear bulkhead to dryer cabinet, then lift complete assembly out of dryer. See *Figure 30*.
- (5.) Remove heater duct from rear bulkhead. See *Figure 32*.
- k. To remove heater duct from rear bulkhead. See *Figure 32*.

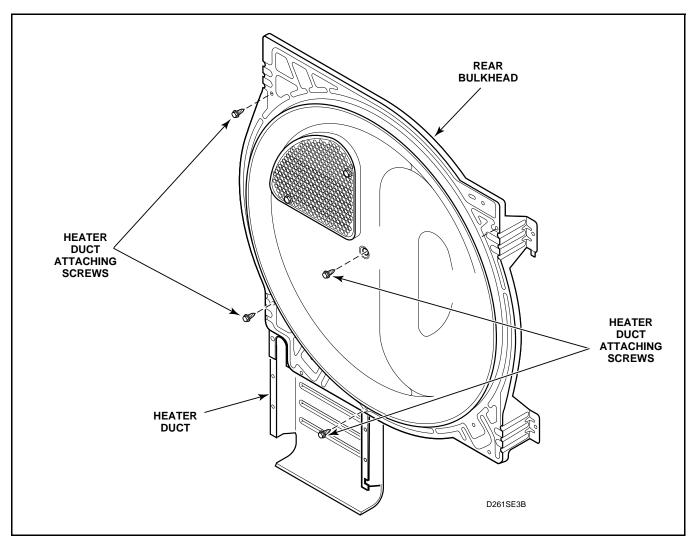


Figure 32



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

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

W001R1

#### 49. TERMINAL BLOCK OR POWER CORD

#### a. Terminal Block:

- (1.) While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- (2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- (3.) Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 5*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- (4.) Disconnect wires from door switch. See *Figure 11*.

### NOTE: Refer to wiring diagram when rewiring switch.

- (5.) Remove two cabinet hold-down screws. See *Figure 24*.
- (6.) Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. See *Figure 24*.

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

(7.) Remove all wires from terminal block.

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

(8.) Remove screw holding terminal block/shield to rear bulkhead. See *Figure 33*.

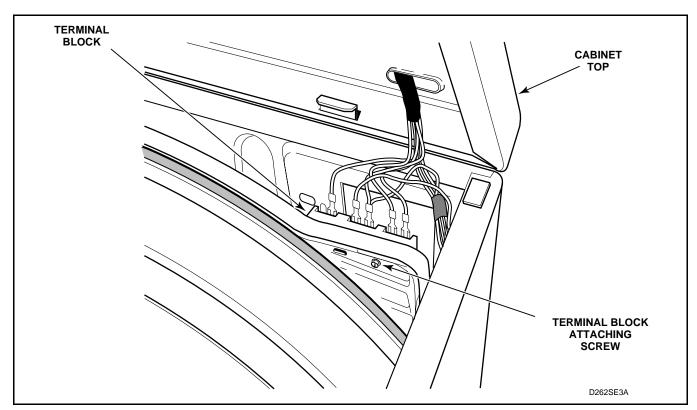


Figure 33



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

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

W001R1

#### 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. See *Figure 34*.

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.

NOTE: A qualified electrician should check the polarity of the wall receptacle. If a voltage reading is measured other than that illustrated, the qualified electrician should correct the problem.

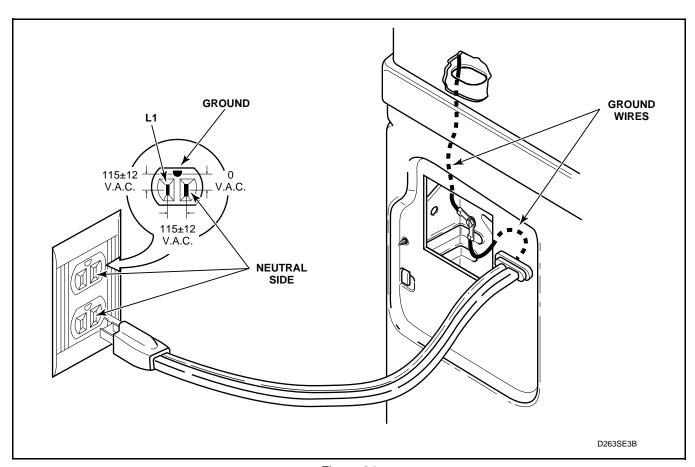


Figure 34



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

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

W001R1

#### **50. CABINET**

- a. Remove the three screws holding the control assembly to the control hood rear panel. See *Figure 4*.
- b. Rotate the assembly forward to access inner wiring.
- c. Disconnect wiring from inner components and carefully remove components from control hood assembly.

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

- d. Rotate control hood assembly forward and lift to free assembly from hold-down clips.
- e. Remove two screws from bottom edge of lower front access panel. See *Figure 5*.
- f. Swing bottom of panel away from dryer to disengage hold-down clips and locators from bottom edge of front panel.
- g. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 5*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- h. Disconnect wires from door switch. See *Figure 11*.

### NOTE: Refer to wiring diagram when rewiring switch.

- i. Remove two cabinet top hold-down screws. See *Figure 24*.
- j. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. See *Figure 24*.

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

- k. Carefully withdraw wire harness through hole in cabinet top and lift the top off the hold-down brackets. See *Figure 24*.
- 1. Disengage belt from motor and idler pulleys. See *Figure 19*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler lever. See *Figure 19*. Belt must be positioned around cylinder between center and rear baffle screws with the ribbed surface against the cylinder. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

- m. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet. See *Figure 25*.
- n. Carefully remove cylinder out through front of dryer.



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

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

W001R1

#### o. 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. See *Figure 12*.
- (2.) Remove screw from right side of burner housing holding burner tube in place. See *Figure 15*.
- (3.) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. See *Figure 12*.
- (4.) Carefully rotate burner tube and igniter **counterclockwise** so tab is at the 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. See *Figure 12*.
- (7.) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. See *Figure 12*.
- (8.) Remove four screws holding shroud to heater duct. Remove shroud out through front of dryer. See *Figure 12*.

#### p. Electric Models:

- (1.) Remove two screws holding element and plate to heater box, then pull element down and away from heater duct. See *Figure 15*.
- (2.) While supporting bulkhead, remove screws holding bulkhead to rear of dryer cabinet, and remove assembly out of dryer. See *Figure 30*.
- (3.) Remove screw holding exhaust duct to dryer cabinet and pull duct out of cabinet. See *Figure 30*.
- (4.) Remove two screws from each rear cabinet top hold-down bracket. See *Figure 25*.

- (5.) Remove screw holding access plate and remove plate.
- (6.) Remove wire harness clips.
- (7.) Remove locators and screws.
- (8.) Remove two screws from front edge at each side of cabinet. Then remove remaining screws from around bottom of cabinet and lift cabinet off base. See *Figure 25*.

#### **51. BASE**

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel.
- c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 5*. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
- d. Disconnect wires from door switch. See *Figure 11*.

NOTE: Refer to wiring diagram when rewiring switch.



#### **WARNING**

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

W005



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

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

W001R1

#### 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. See *Figure 12*.
- (2.) Close main gas shut-off valve.
- (3.) Disconnect gas line to dryer.
- (4.) Remove three screws holding gas valve bracket to base and remove valve with attached lead-in pipe. See *Figure 12*.
- (5.) Remove screw holding burner tube in place from right side of burner housing. See *Figure 17*.
- (6.) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. See *Figure 12*.
- (7.) Carefully rotate burner tube and igniter counterclockwise so tab is at the 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. See *Figure 15*.
- (9.) Remove four screws holding shroud to heater duct and remove shroud and burner housing out through front of dryer. See *Figure 12*.

#### f. Electric Models:

- (1.) Remove two screws holding element and plate to heater duct, then pull element down and away from heater duct. See *Figure 15*.
- (2.) Disconnect wire harness from limit thermostat, thermal fuse and/or heating element. See *Figure 15*.
- g. Open loading door and remove lint filter. See *Figure 7*.
- h. Remove screws holding air duct to front bulkhead and remove air duct. See *Figure 19*.

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 18*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

i. Disconnect wires from thermostat (and heater, if present) and remove ground screw. See *Figure 18*.

### NOTE: Refer to wiring diagram when rewiring thermostat and heater, if present.

- j. Remove cylinder belt from idler and motor pulleys. See *Figure 19*.
- k. Remove two screws holding motor mounting bracket to dryer base. Then pull complete assembly forward to disengage middle exhaust duct.
- 1. Rotate the assembly **counterclockwise** 90° and slide out front of machine.
- m. Disconnect wires from motor switch and remove harness clip from motor bracket. See *Figure 20*. Then set motor and exhaust assembly off to the side.
- n. Remove screw holding bracket on exhaust duct to rear of cabinet and pull duct out of cabinet. See *Figure 30*.

IMPORTANT: When reinstalling motor and exhaust assembly, be sure wire harness on right side is clipped to motor mounting bracket and is routed along dryer base (between motor mounting bracket and right side of cabinet). See *Figure 16*. Tab on rear of motor mounting bracket must be slid into slot in dryer base. Be sure the belt has been installed on the correct side of the idler lever. See *Figure 19*.

- o. Remove two screws from front edge at each side of cabinet. See *Figure 27*. Then remove remaining screws from around bottom of cabinet and lift cabinet off base.
- p. Remove leveling legs from base and reinstall on new base. See *Figure 35*.

### Section 6 Adjustments



#### WARNING

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

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

W001R1

### 52. LEVELING LEGS (Figure 35)

NOTE: Dryer should be installed on a solid and level floor.

a. Place dryer in position, adjusting the legs until dryer is level.



#### WARNING

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

W005

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.

 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.

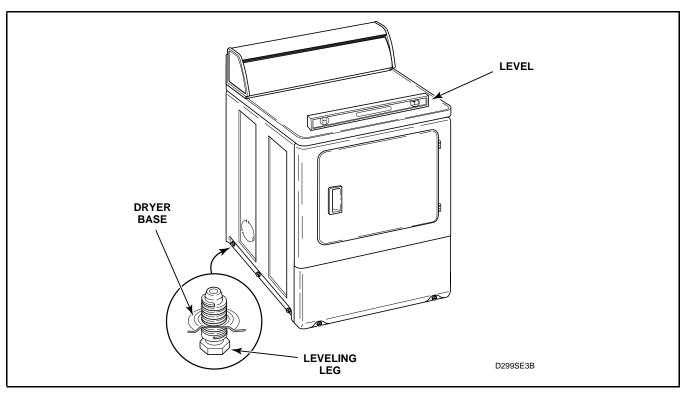


Figure 35



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

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

W001R1

#### 53. BURNER FLAME (Gas Models)

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- 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. See *Figure 36*.

- f. Turn the air shutter to the left to get a luminous yellow tipped flame, then turn it back slowly to the right to obtain a steady blue flame.
- g. After proper flame is obtained, tighten air shutter lockscrew firmly. See *Figure 36*.
- h. Reinstall lower front access panel and screws.



#### WARNING

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

W262

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

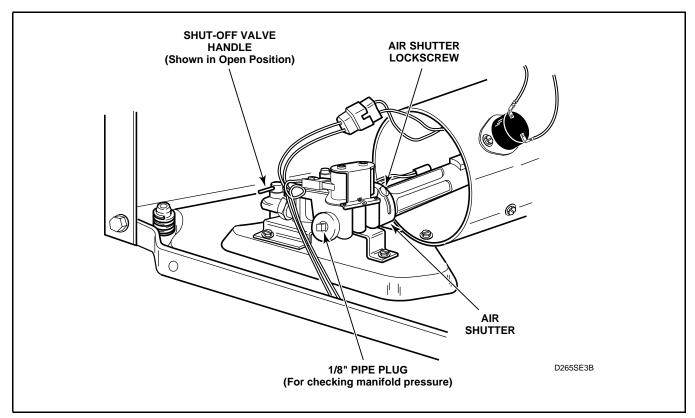


Figure 36

# Section 7 Test Procedures



#### **WARNING**

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

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

W001R1

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

#### **54. DRIVE MOTOR**

(*Figure 38*)

- a. Remove motor and exhaust assembly. Refer to *Paragraph 41*.
- b. Disconnect motor wire harness at motor disconnect block.

NOTE: Refer to wiring diagram when rewiring motor switch.

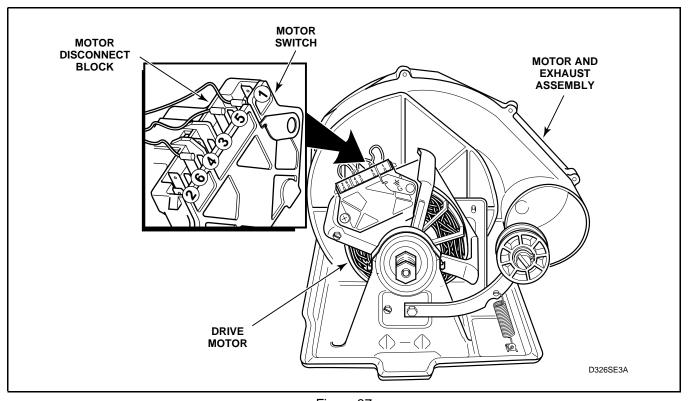


Figure 37

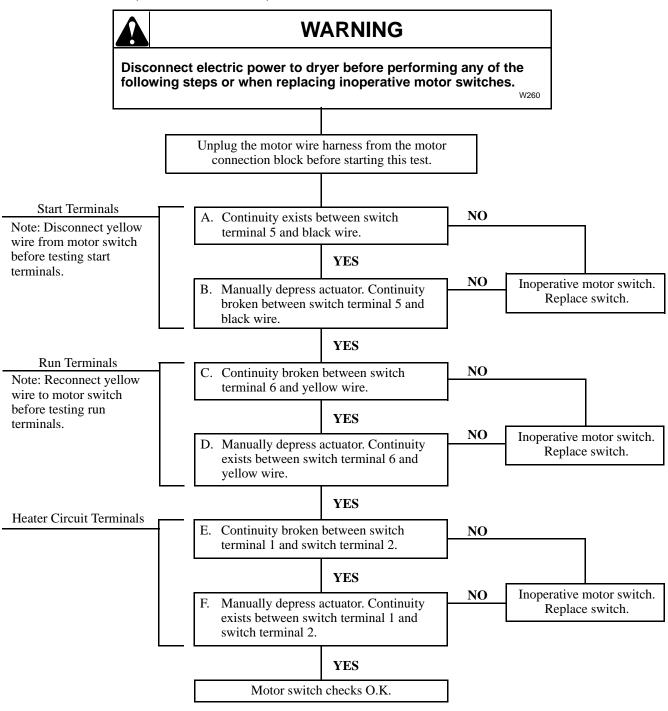


To reduce the risk of electric shock, fire, explosion, serious injury or death:

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

W001R1

c. **Motor Switch** (Refer to SECTION 8.)



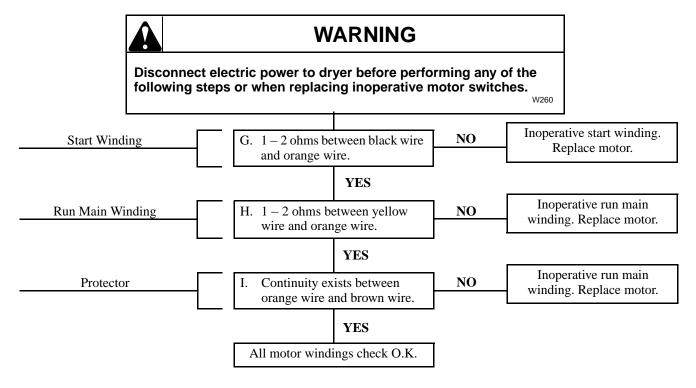


To reduce the risk of electric shock, fire, explosion, serious injury or death:

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

W001R1

d. Motor Windings (Refer to SECTION 8.)





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

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

W001R1

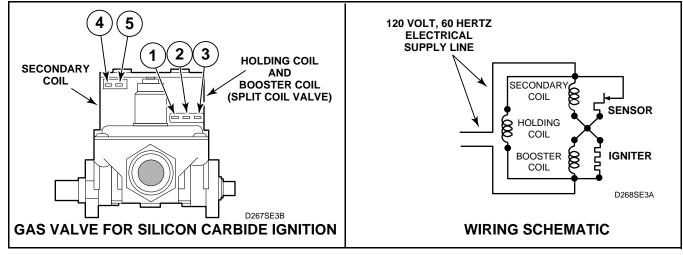


Figure 38

# 55. BURNER SYSTEM OPERATION - SILICON CARBIDE IGNITION (Figure 38)

#### a. Components

The 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.

#### b. 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 the split-coil valve. Once opened, the holding coil can hold the valve open without assistance from the booster coil. The flame sensor triggers the current to travel around the secondary coil and through the igniter, causing the igniter to get hot.

#### c. Burner Circuit

In approximately 30 seconds, the igniter attains ignition temperature and ignition is made. The heat from the burner flame causes the flame

sensor contacts (located on burner housing beside the igniter) to open. A circuit is then completed through the secondary valve coil, opening the valve and allowing gas to flow.

#### d. 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 re-close, the secondary valve will close, and the burner system will be in the normal pre-ignition circuit.

#### e. Flame Failure

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

#### f. **Ignition Failure**

If flame is not established as flame sensor contacts open, secondary valve will remain open until flame sensor contacts re-close. 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(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1

### 56. ELECTRICAL CIRCUIT TO IGNITION SYSTEM – SILICON CARBIDE IGNITION

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Close main gas shut-off valve.
- d. Remove valve wire harness disconnect block from the holding and booster coil. See *Figure 39*.
- e. Plug dryer power cord into wall receptacle, and 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 plug that would correspond to terminals 1 and 2 on the coil. See *Figure 38*. 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.

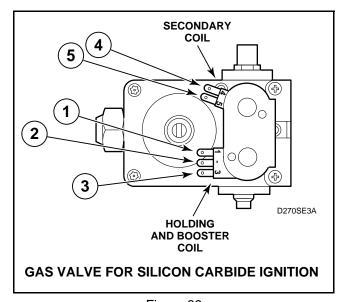


Figure 39



#### **WARNING**

To reduce the risk of fire, explosion and electric shock, close the valve in the gas supply line to the gas dryer and disconnect the electrical power unless gas or power supplies are required to perform test procedure.

W263

### 57. GAS VALVE COILS CHECK – SILICON CARBIDE IGNITION

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Close main gas shut-off valve.
- d. Remove disconnect blocks from gas valve coils. See *Figure 12*.
- e. Set test meter to read Ohms and put meter probes to terminals as in *Figure 39*, and in the following chart.

#### COIL TOLERANCE READINGS

	60 Hertz	50 Hertz
Holding Coil Terminals 1 & 2	$1365 \pm 60$ Ohms	$1700 \pm 75$ Ohms
Booster Coil Terminals 1 & 3	560 ± 25 Ohms	$685 \pm 35$ Ohms
Secondary Coil Terminals 4 & 5	$1220 \pm 50$ Ohms	$1650 \pm 75$ Ohms

NOTE: If meter registers any other readings than those listed above, 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(s) before servicing.
- Close gas shut-off valve to gas dryer(s) before servicing.
- Never start the dryer(s) with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer is properly grounded.

W001R1

### 58. SENSOR CHECK – SILICON CARBIDE IGNITION

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Close main gas shut-off valve.
- d. Remove wires from sensor terminals. See *Figure 12*.
- 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.

### 59. IGNITER CHECK – SILICON CARBIDE IGNITION

Gas dryers are manufactured with an igniter.

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Disconnect igniter wires at disconnect block.
- d. Set test meter to read Ohms and put meter probes on terminals of igniter wires.
- e. **Silicon Carbide Igniter** meter should read between 45 200 Ohms. See *Figure 40*.

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

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

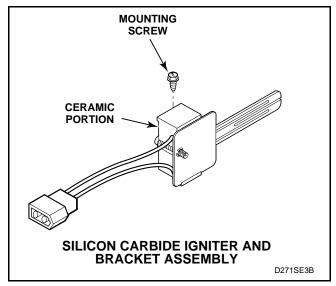


Figure 40

#### **60. THERMAL FUSE (ELECTRIC MODELS)**

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Label and disconnect wires from thermal fuse. See *Figure 15*.

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

d. Set multimeter to read Ohms on the X1 scale. Apply meter probes to the thermal fuse terminals. Multimeter should read 0 Ohms. If the meter does not show any reading (infinite Ohms), then the fuse is open. If the fuse is open, then replace BOTH the thermal fuse and the limit thermostat.



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

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

W001R1

### 61. HEATER ASSEMBLY (ELECTRIC MODELS)

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Disconnect wires from heater assembly. See *Figure 15*.

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

d. Set meter to read Ohms. Apply meter probes to the heater wire terminals. Meter should read as follows: (Cold Ohms). See *Figure 15*.

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

#### **62. CYCLING OR LIMIT THERMOSTAT**

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Label and disconnect wires from thermostat. See *Figures 15* or *16*.

### NOTE: Refer to wiring diagram when rewiring thermostat.

### Cycling Thermostat (S.P.S.T. – 2 Terminals) 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. – 3 Terminals)**

- (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".

#### 63. THERMOSTAT HEATER

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Label and disconnect wires from the thermostat/heater. See *Figure 16*.

### NOTE: Refer to 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.  $2400 \pm 240$  Ohms



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

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

W001R1

#### 64. FABRIC SELECTOR SWITCH

- a. Remove three screws holding the control assembly to the control hood rear panel and cabinet top. See *Figure 4*.
- b. Disconnect wires from fabric selector switch.

### NOTE: Refer to wiring diagram when reconnecting wires.

c. Set the meter to read Ohms and apply the meter probes to the switch terminals.

FABRIC SELECTOR SWITCH - 3 Position					
	L1-1	L1-2	L1-3		
Perm. Press and Regular	_	X	_		
Delicate	X	X	_		
Fluff	-	_	X		
X indicates closed					

#### 65. SIGNAL

- a. Remove the three screws holding the control assembly to the control hood rear panel. See *Figure 4*.
- b. Disconnect wires from signal.
- c. Set meter to read Ohms and apply meter probes to terminals of signal. Meter should read approximately 1,000 Ohms at all times.

### 66. TIMER ADVANCE AND TIMER CONTACT POINTS

(*Figure 41*)

This test will determine if the timer advances. If the timer advances then it does not need to be replaced.

#### a. Advance Test:

For models which produce an audible signal (a buzzing sound):

- (1.) Select a cycle and activate dryer start switch.
- (2.) Rotate timer knob to a position where the signal will activate, then release timer knob.

- (3.) If timer is advancing, signal will end in less than 10 minutes.
- (4.) If signal continues to sound for more than 10 minutes, replace timer.

For models which do not produce an audible signal:

- (1.) Rotate timer knob to the 10 minute mark.
- (2.) If timer is advancing, dryer will cycle into the cool down period and then to OFF position.

### NOTE: If timer does not advance, see *Paragraph 21* for timer replacement.

#### **b. Timer Contact Points:**

To check timer contact points proceed as follows:

- (1.) Remove the three screws holding the control assembly to the control hood rear panel. See *Figure 4*.
- (2.) Disconnect wires from timer.

### NOTE: Refer to wiring diagram when rewiring timer.

- (3.) Set test meter to read Ohms and apply meter probes to terminals. See *Figure 41*.
- (4.) Starting with timer knob indicator in OFF position at top of timer, slowly turn timer knob clockwise until indicator is again pointing toward OFF position at top of timer. Meter should register "zero" reading when circuit being tested is completed by timer. Refer to *Figure 41* for Timer Cycle Chart showing when circuit is made.

## c. **Timer Motor Resistance Check**120V motor resistance should be 2,460 – 3,100 Ohms.

### d. Timer Resistor Resistance Check (Electric Models)

4.7K 10W resistor resistance should be 4,465 - 4,935 Ohms.



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

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

W001R1

CIRCUIT TO BE TESTED	TIMER No. 505473	TIMER No. 504546
Timer Motor	L2 and T	N and T
Signal Control	P/B and P/B	P/B and P/B
Motor	L1 and M	L1 and M
Heat	L2 and H	L2 and H
Push-to-Start	M and S	M and S

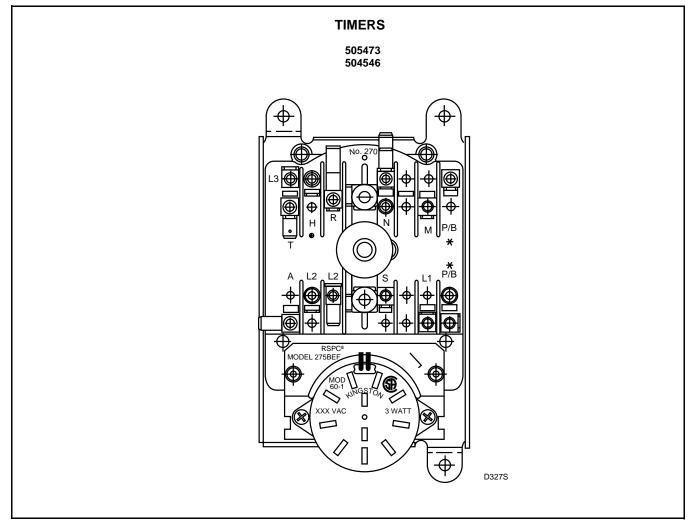


Figure 41



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

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

W001R1

#### 67. DOOR SWITCH

- a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 5*.
- b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 12*.
- c. Disconnect wires from door switch. See *Figure 11*.

### NOTE: Refer to wiring diagram when rewiring switch.

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

### Section 8 Internal Wiring Of Dryer Motor Switch



#### **WARNING**

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

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

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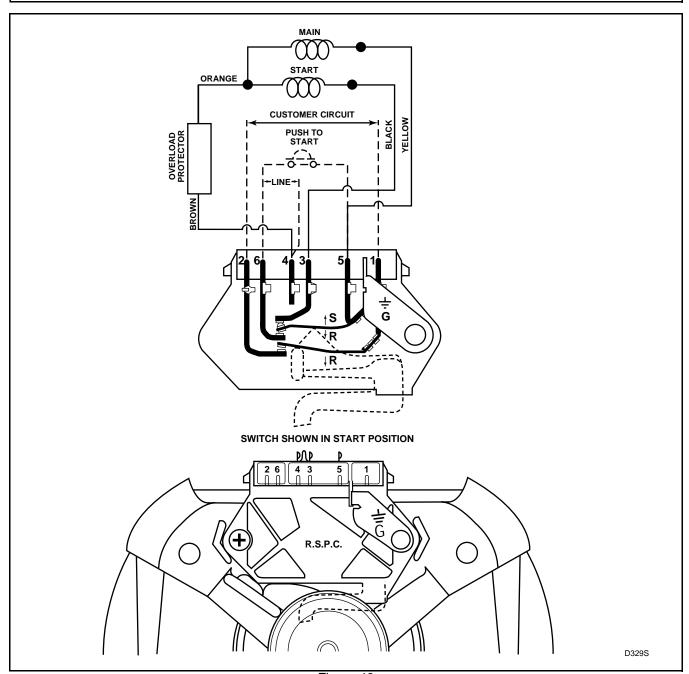


Figure 42