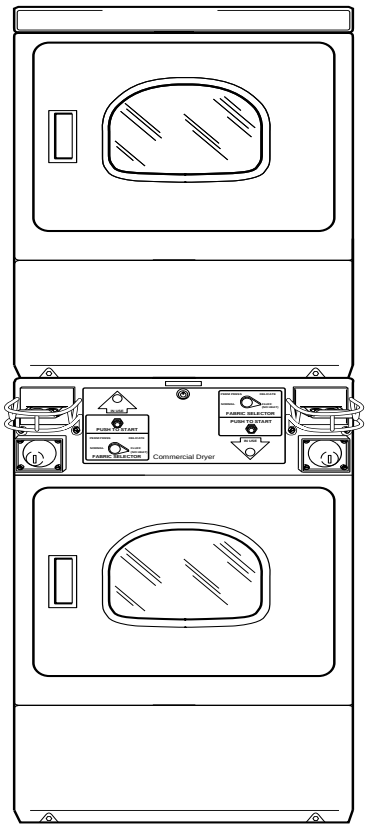
Stacked Dryers

Metered and Nonmetered

See Page 6 for Model Numbers

Service



D330P

Alliance Laundry Systems

Part No. 505039
April 1999

Table of Contents

Section 1
Safety Information

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

⚠ DANGER

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

⚠ WARNING

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

⚠ CAUTION

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

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

IMPORTANT

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

NOTE

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

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

WARNING

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

W006R1

WARNING

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

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

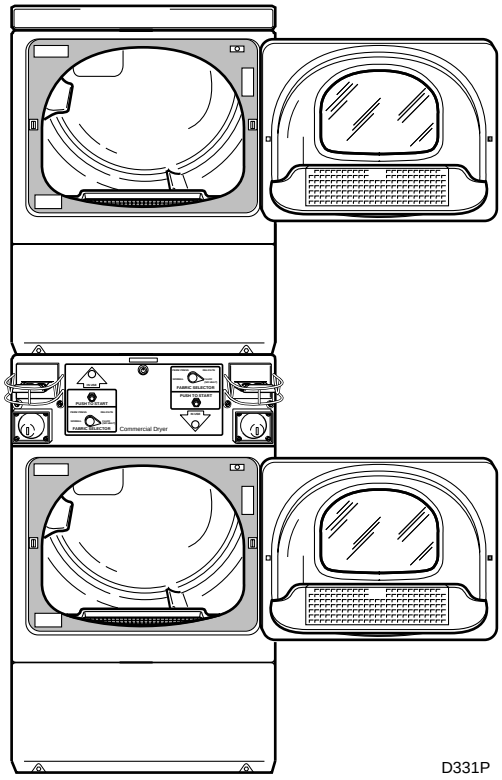
Customer Service

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

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

Nameplate Location

When calling or writing about your dryer, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate. Nameplate is in one of the four corners of the door well. The door well is the shaded area shown.



D331P

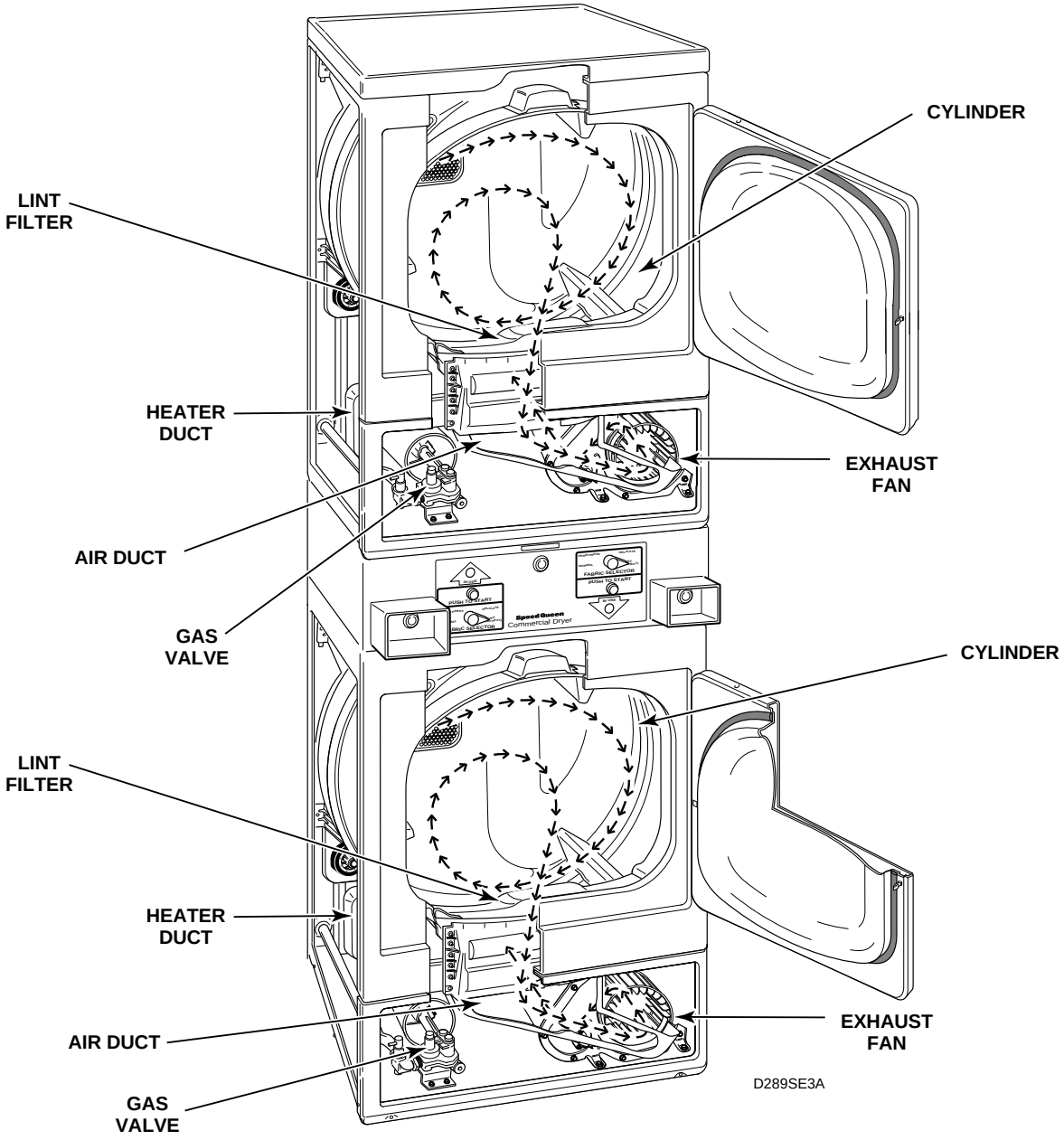
Model Identification

Information in this manual is applicable to these dryers.

Model Number	Nonmetered Model	Metered Model	Coin Drop Ready	Coin Drop Installed	Coin Slide Ready	Electronic Display Control	Card Reader Ready	Card Reader Installed	Electric Heat	Gas Heat
HSE117*C2802		X			X				X	
HSE117*C2902		X			X				X	
HSE517*C2802		X		X		X			X	
HSE517*C2902		X		X		X			X	
HSE617*C2802		X				X	X		X	
HSE617*C2902		X				X	X		X	
HSE717*C2802		X				X		X	X	
HSE717*C2902		X				X		X	X	
HSG119*C0902		X			X					X
HSG519*C0902		X		X		X				X
HSG619*C0902		X				X	X			X
HSG719*C0902		X				X		X		X
SSE007*A3000	X								X	
SSE117*A3000		X			X				X	
SSE117*A4350		X			X				X	
SSE117*A5412		X			X				X	
SSE417*A3000		X	X			X			X	
SSE417*A4350		X	X			X			X	
SSG119*A3000		X			X					X
SSG119*A3058		X			X					X
SSG119*A5412		X			X					X
SSG119*A5480		X			X					X
SSG419*A3000		X	X			X				X

*** 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 *Paragraph 57* to check motor switch and motor windings.
Motor won't run.	• Refer to *Paragraph 57* 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 *Paragraph 2*.
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 belt and determine if motor shaft will spin. • Replace motor if shaft is locked up.
Loose motor wire harness connection block.	• Firmly press connection block onto motor switch.
Broken, loose, or incorrect wiring.	• Refer to wiring diagram.
Power cord is miswired.	• Refer to wiring diagram for the correct wiring.

WARNING

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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. • Check front and rear bulkheads for warping. • Check support rollers for binding. • Check cylinder seals and glides for wear or damage. • Check for clothes lodged between cylinder baffle and bulkhead.
Broken, loose or incorrect wiring.	• Refer to wiring diagram.
Motor switch functions inoperative. Short in motor winding.	• Refer to *Paragraph 57* to check switch and windings.
Clothes caught in fan.	• Check fan for obstruction.

WARNING

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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 43*.
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 44*.
Belt routed on wrong side of idler lever.	• Reroute belt. Refer to *Figure 43*.
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.

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
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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 (*Paragraph 60* or *65*) and replace if inoperative.
Gas Models: Inoperative flame sensor.	• Test flame sensor (*Paragraph 61* or *66*) and replace if inoperative.
Gas Models: Inoperative igniter.	• Test igniter (*Paragraph 62* or *67*) 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.
Some Gas Models: Tripped high limit thermostat.	• Reset thermostat.
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.

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

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.
Silicon Carbide Ignition: 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 (*Paragraph 60* or *65*) and replace appropriate coils.

8. IGNITER GLOWS BUT BURNER DOES NOT IGNITE (Gas Models)

POSSIBLE CAUSE	TO CORRECT
Silicon Carbide Ignition: 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 *Paragraph 60* or *65*.
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.
Silicon Carbide Ignition: Flame sensor installed improperly on burner housing.	• Loosen screw and properly position the flame sensor on the burner housing.

WARNING

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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 56*.
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 (*Paragraph 39*, step “d”) or adjust burner flame. Refer to *Paragraph 56*.
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 41*.
Air leak around loading door. (Door not sealing due to damaged seal or inoperative door catch.)	• Replace seal or catch.
Air leak at blower seal.	• Check and replace seal if necessary.
Air leak at cylinder seal(s).	• Check and replace seal(s) if necessary.

WARNING

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

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.
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 *Figure 43*.

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
- **Close gas shut-off valve to gas dryer(s) before servicing.**
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W001R1

13. 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 cool-down to the OFF position.
Inoperative cycling thermostat.	• Test cycling thermostat 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: 1. Seal between loading door and front panel. 2. Seal between front panel and front bulkhead. 3. Seal between blower cover and air duct. 4. Seal between cylinder and front or rear bulkhead. 5. Seal between upper and lower air ducts.

14. IGNITION CONTROL FLASHES (*Figure 1*)

NOTE: This control will lock-out the igniter after four failed attempts at ignition. **The control can be reset by opening loading door, waiting 1 minute, then closing loading door.** If door is closed before waiting 1 minute, the control will re-enter lockout. The red light will flash a “Flash Code” when the control is in the lock-out mode. The light will flash on for 1/4 second then off for 1/4 second for each number. The pause between flash codes is 2 seconds. These flashes are caused by the control’s diagnostic test and can be interpreted by reading the following:

FLASH CODE	POSSIBLE CAUSE	TO CORRECT
Constant Light	Internal failure.	• Reset dryer. If condition persists, then replace control.
One Flash	Air in gas line.	• Purge air from gas line.
	Flame sensor coated with Aluminum Oxide.	• Wipe sensor clean or replace sensor if necessary.
	Incorrect gas pressure.	• Check for correct gas pressure. If gas pressure is incorrect, then contact local gas company.
	Gas shut-off valve closed.	• Open gas shut-off valve.
Four Flashes	Internal failure.	• Reset dryer. If condition persists, then replace control.
	Loose or disconnected wiring.	• Check all wiring leading to, or coming from, the control module for secure connections.
	Open Igniter/igniter sensing circuit/ voltage measurement circuit.	• Check igniter and all circuits, replace if necessary.

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
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W001R1

14. IGNITION CONTROL FLASHES (continued)

FLASH CODE	POSSIBLE CAUSE	TO CORRECT
Five Flashes	Loose or disconnected wiring.	• Check all wiring leading to, or coming from, the control module for secure connections.
	Inoperative gas valve.	• Check gas valve and replace if necessary.
	Inoperative flame sensor.	• Replace flame sensor/igniter.
Six Flashes	Loose or disconnected wiring.	• Check all wiring leading to, or coming from, the control module for secure connections.
	Incorrect wiring.	• Check wiring diagram and make sure dryer is wired correctly.
	Incorrect polarity.	• Contact a professional electrician to check the polarity, and correct any problems.
Seven Flashes	Loose or disconnected wiring.	• Check all wiring leading to, or coming from, the control module for secure connections.
	Flame sensor and/or appliance not properly grounded.	• Check grounding from control to base, and from lead in cord to dryer.
Rapid Flashing	Incorrect frequency.	• Contact a professional electrician to check the frequency, and correct any problems. Power supply must be 50 – 60 Hz. 2-wire, plus grounding (earth) wire.

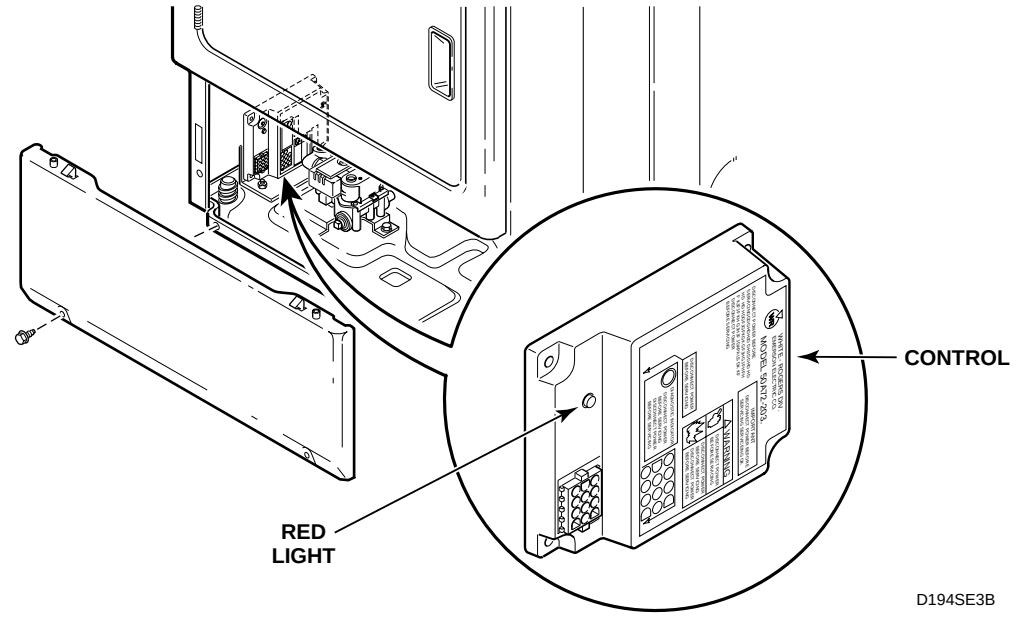

Figure 1

Section 4
Grounding

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
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- **Close gas shut-off valve to gas dryer(s) before servicing.**
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W001R1

15. GROUND WIRES FROM TERMINAL BLOCK OR POWER CORD TO REAR BULKHEAD AND FROM REAR BULKHEAD TO CONTROL HOUSING (*Figures 2* and *3*).

Models with suffix number 2802, 2902 and 0902

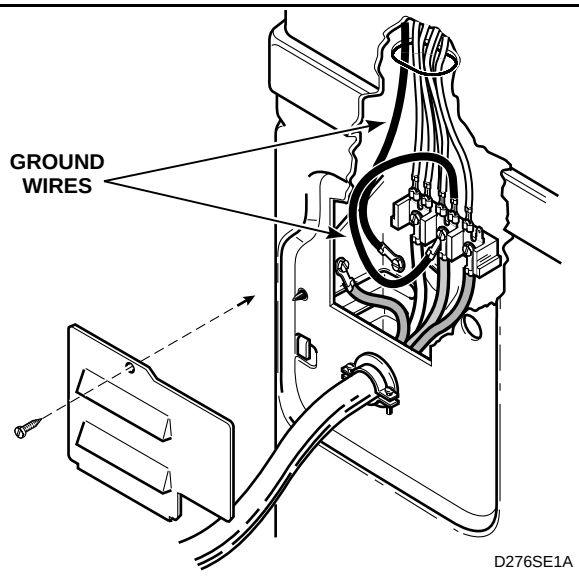

Figure 2

Models with suffix number 3000, 4350, 5412, 3058 and 5480

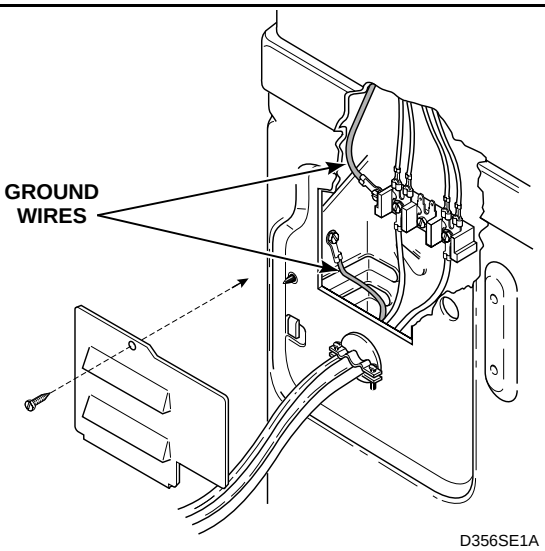

Figure 3

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
- **Disconnect electric power to the dryer(s) before servicing.**
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W001R1

16. GROUND WIRES FROM POWER CORD TO REAR BULKHEAD AND FROM REAR BULKHEAD TO CONTROL HOUSING. CHECK WALL RECEPTACLE POLARITY (Gas Models Only) *(Figure 4)***.**

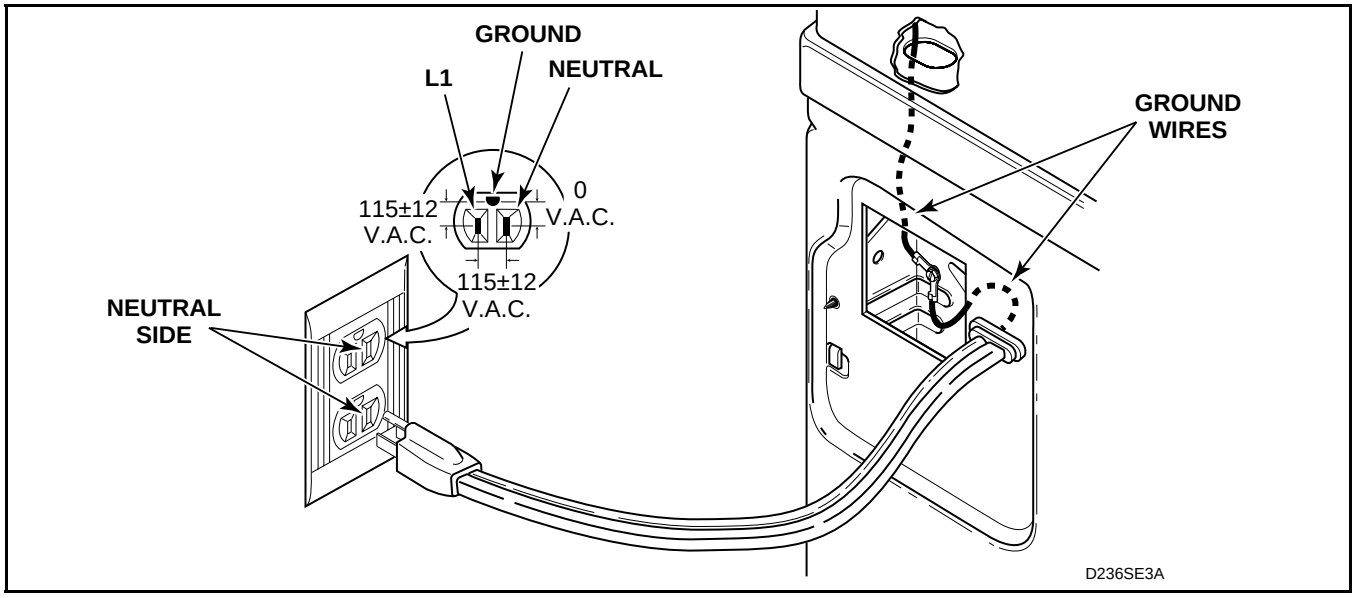

Figure 4

WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:
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W001R1

17. GROUND WIRES FROM DRYER BASE TO WIRE HARNESS AND TO IGNITION CONTROL (GAS MODELS WITH SILICON NITRATE IGNITION SYSTEM) *(Figure 5*)**.**

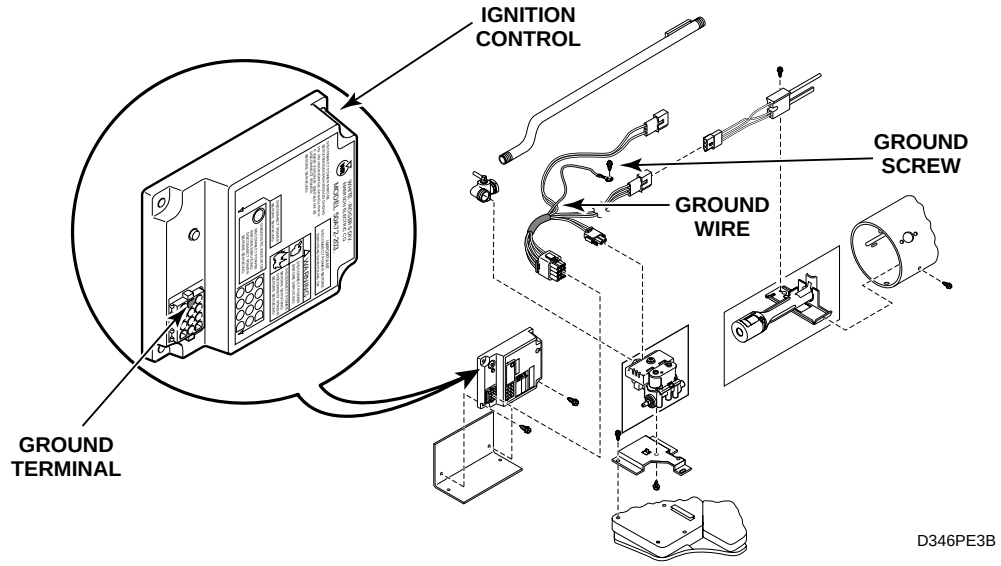


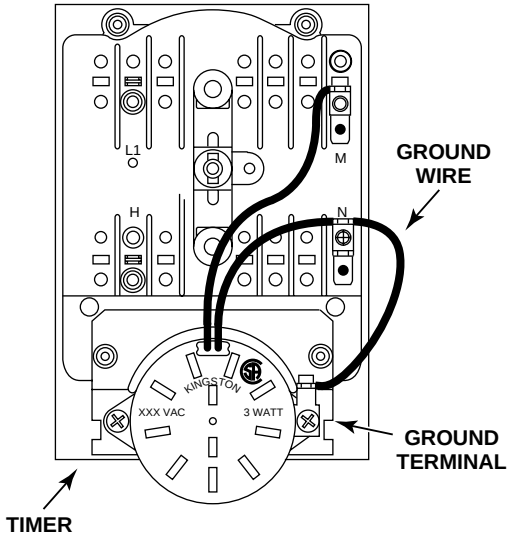
Figure 5

WARNING

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

W001R1

18. METERED AND NONMETERED MODELS – GROUND WIRES FROM CONTROL CABINET TO TIMER (DEPENDING ON MODEL) OR CONTROL PANEL
(Figure 6)



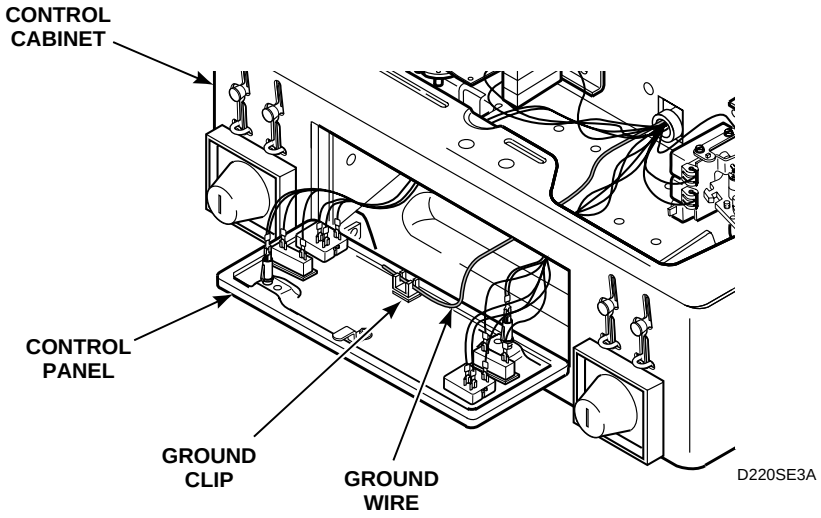


Figure 6

Section 5
Service Procedures

WARNING

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

W001R1

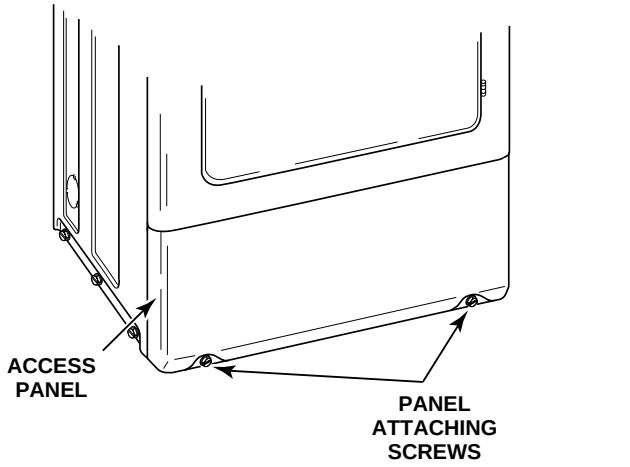


Figure 7

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.

19. ACCESS PANEL
(*Figure 7*)
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.

WARNING

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

W001R1

20. CONTROL PANEL AND CONTROLS (ELECTROMECHANICAL METERED AND NONMETERED)
(***Figure 8***)

a. Unlock control panel. See *Figure 8A*.
b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B*.
c. Remove control panel from control cabinet. See *Figure 8C*.
d. Disconnect all wires to components. See *Figure 9*.
e. Remove ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. Loosen setscrew holding switch knob to shaft and pull knob off shaft. See *Figures 10* or *11*.
g. Remove knurled nut holding fabric selector switch to panel and remove switch. See *Figures 10* or *11*.
h. Remove hex nut from push-to-start switch and remove switch. See *Figures 10* or *11*.
i. Squeeze locking tabs on indicator light and pull light out from back of panel. See *Figures 10* or *11*.

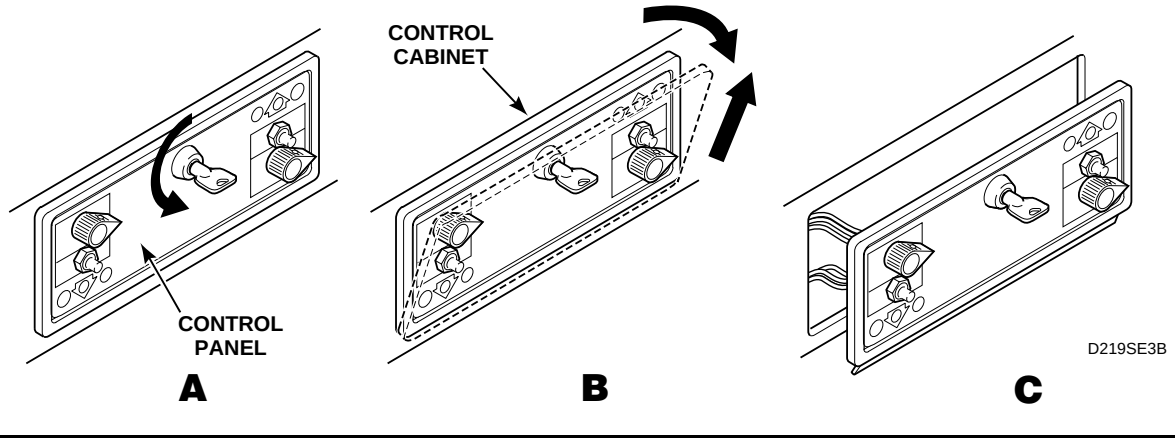


Figure 8

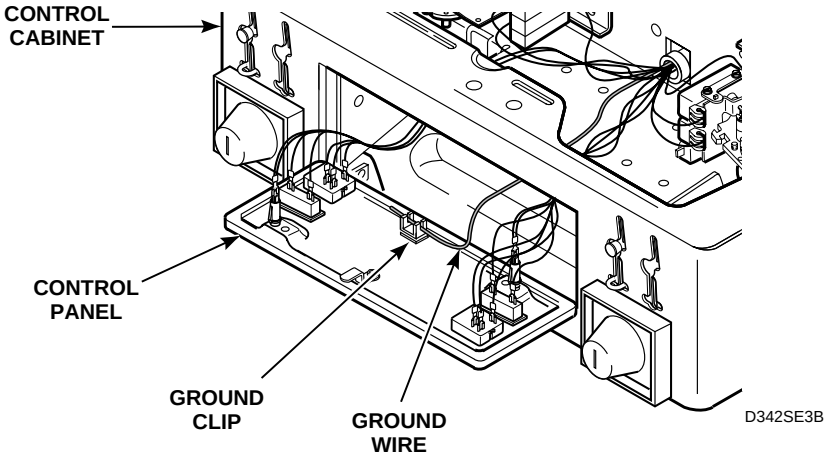


Figure 9

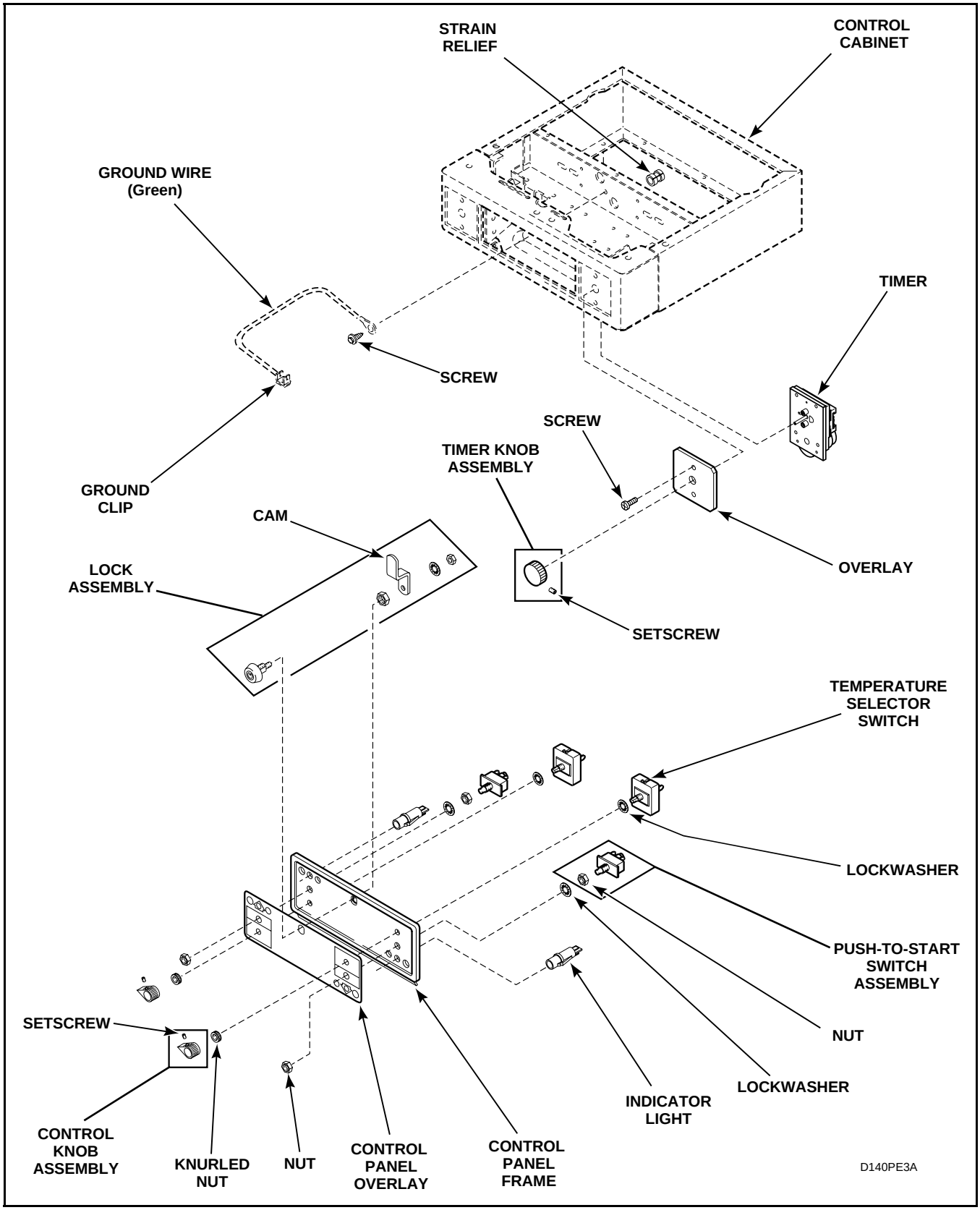


Figure 10

CONTROL PANEL AND CONTROLS (Nonmetered)
(Model SSE007*A3000)

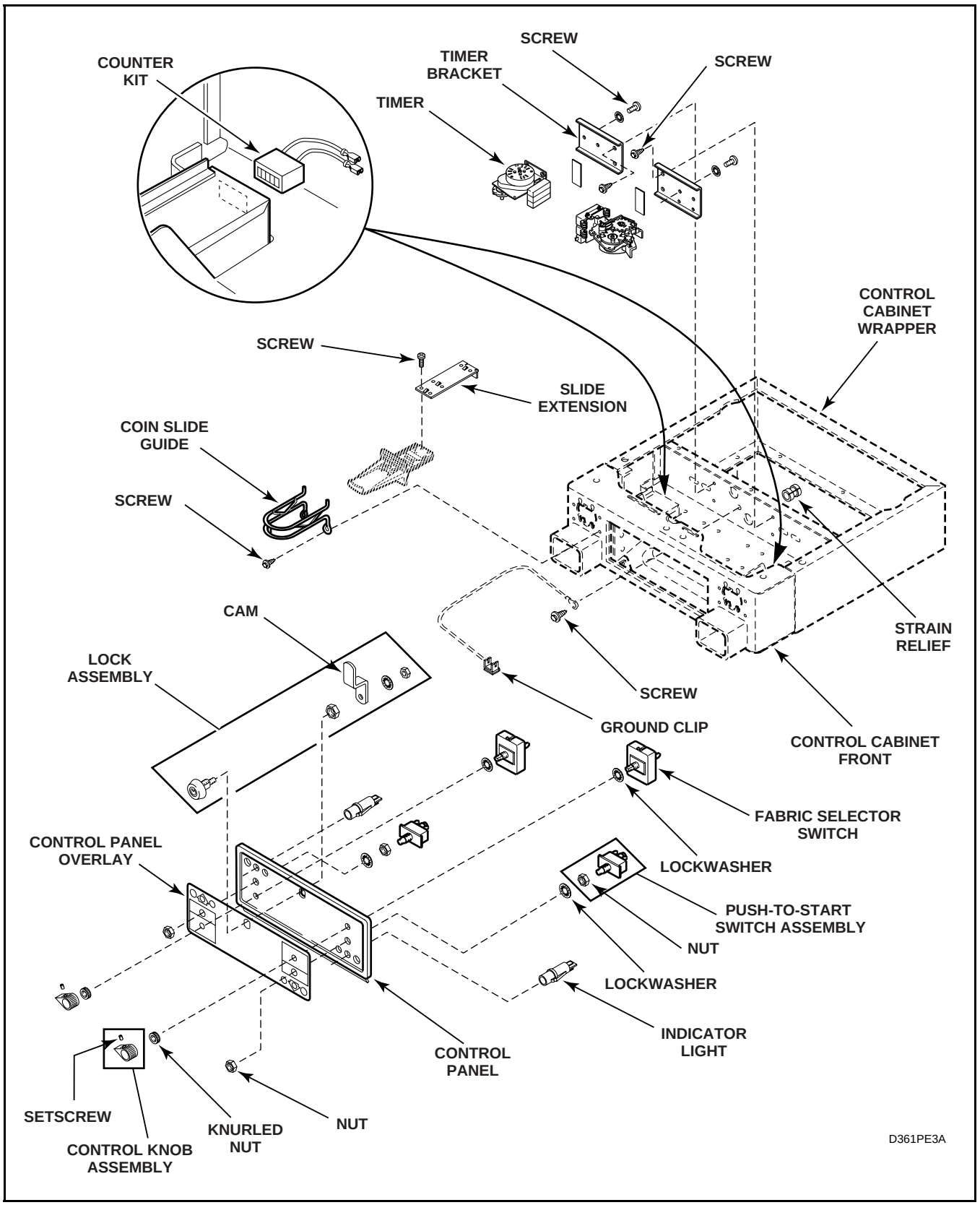


Figure 11

CONTROL PANEL AND CONTROLS (Coin Slide Ready)
(Models HSE117*C2802, HSE117*C2902, HSG119*C0902, SSE117*A3000, SSE117*A4350, SSE117*A5412, SSG119*A3000, SSG119*A3058, SSG119*A5412 and SSG119*A5480)

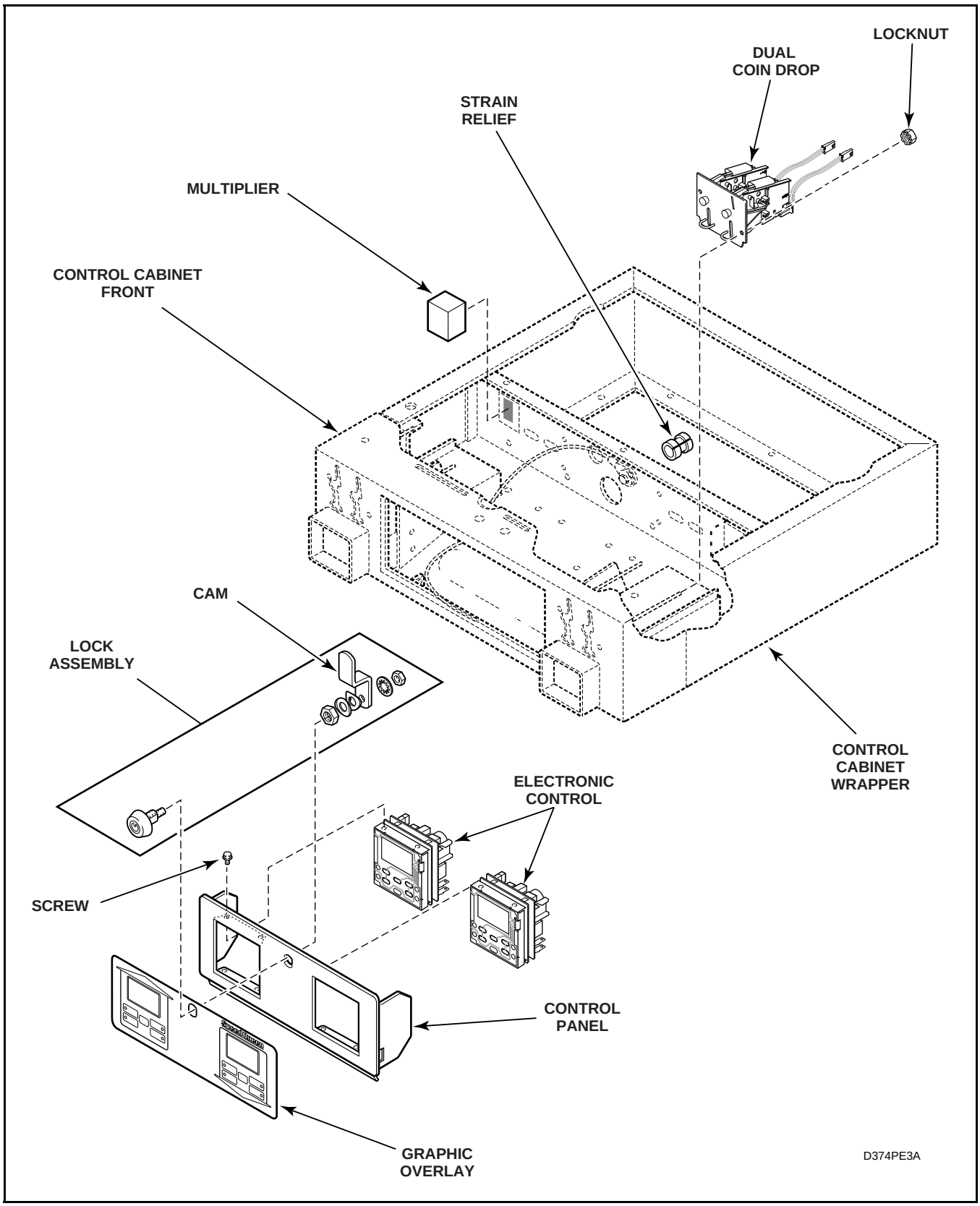


Figure 12

CONTROL PANEL AND CONTROLS (Coin Drop)
(Models HSE517*C2802, HSE517*C2902, HSG519*C0902,
SSE417*A3000, SSE417*A4350 and SSG419*A3000)

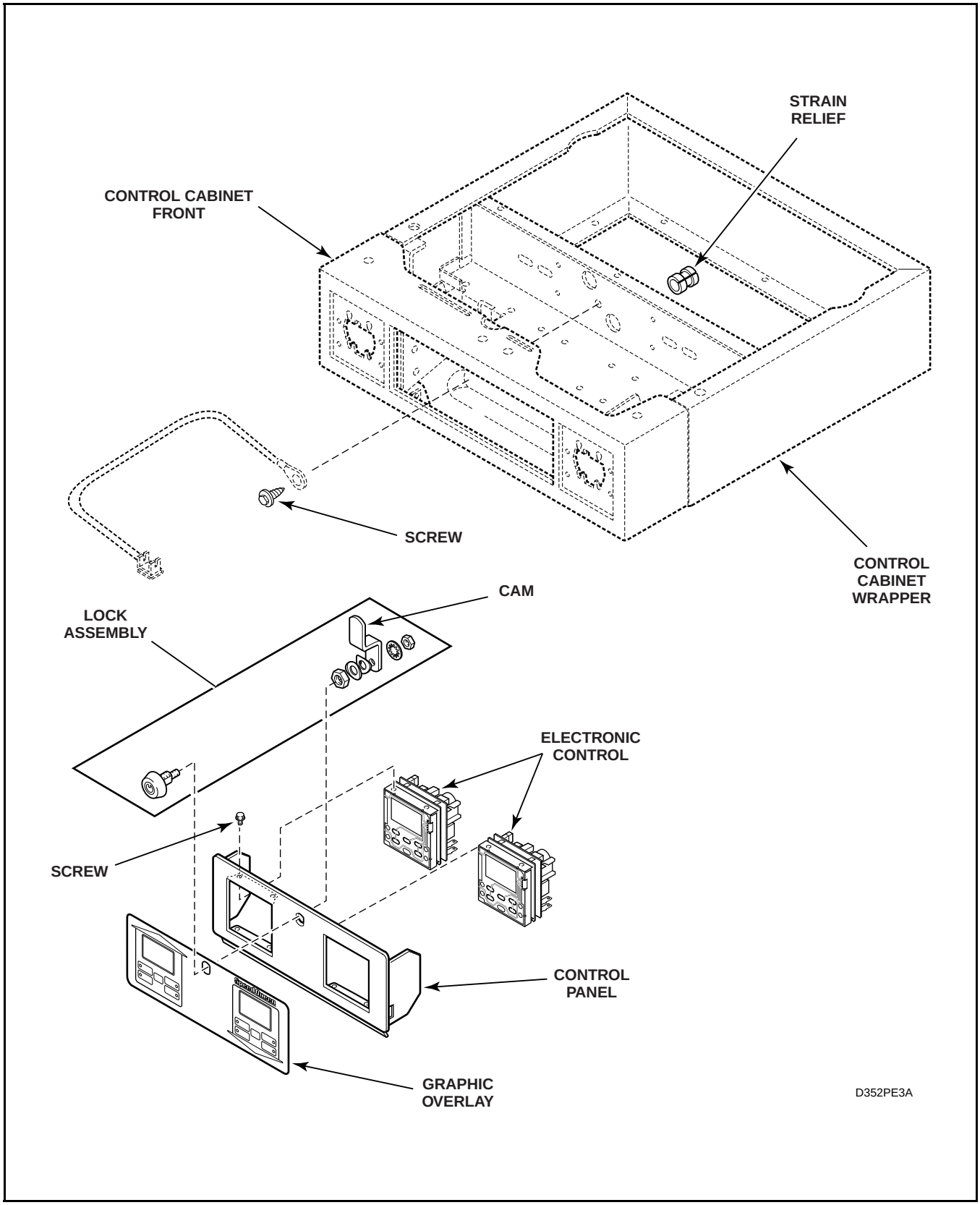


Figure 13

CONTROL PANEL AND CONTROLS (Card Reader Ready)
(Models HSE617*C2802, HSE617*C2902 and HSG619*C0902)

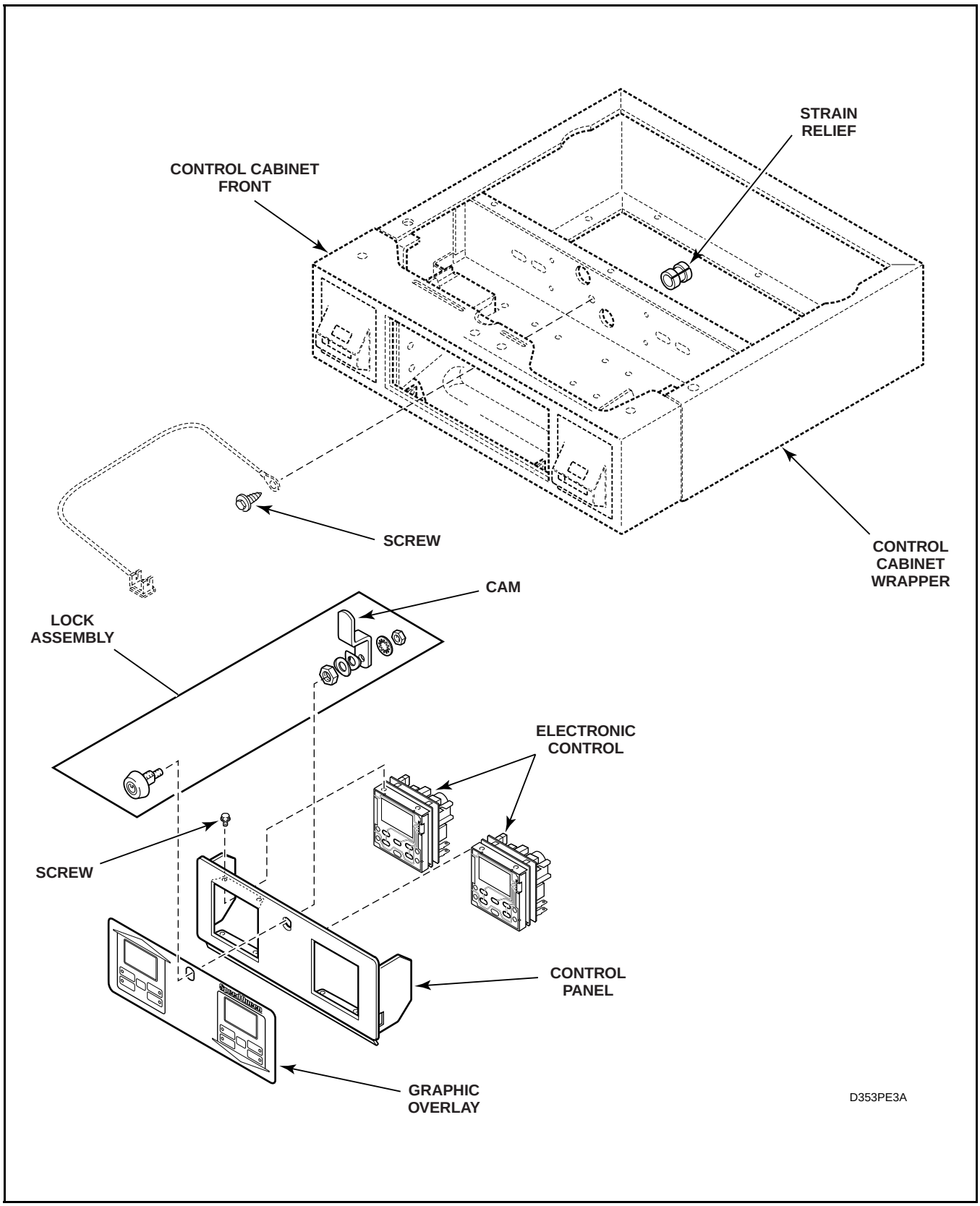


Figure 14

CONTROL PANEL AND CONTROLS (Card Reader Installed)
(Models HSE717*C2802, HSE717*C2902 and HSG719*C0902)

WARNING

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

W001R1

21. CONTROL CABINET FRONT

a. Unlock control panel. See *Figure 8A*.
b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B*.
c. Remove control panel from control cabinet. See *Figure 8C*.
d. Disconnect all wires to components. See *Figure 9*.
e. Remove ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. While supporting the access panel, remove the access panel from both dryers by removing the two screws from the bottom edge of each access panel. See *Figure 7*.
g. Gently lower each access panel to disengage panel locators from the bottom edge of each access panel. See *Figure 7*.
h. Remove two screws holding bottom tabs on front panel to lower dryer cabinet. See *Figures 16* through *19*.
i. Swing bottom of front panel away from lower dryer to disengage hold-down clips and locators from control cabinet.
j. Disconnect wires from door switch. See *Figure 15*.

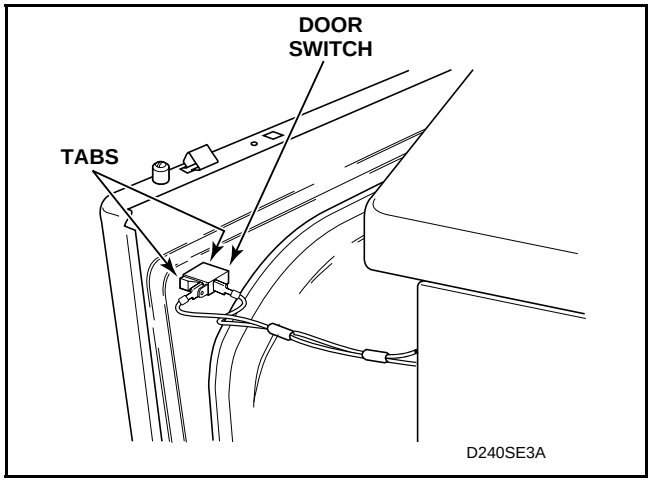


Figure 15

NOTE: Refer to appropriate wiring diagram when rewiring switch.

k. Remove two screws holding bottom tabs on control cabinet to front flange of lower dryer cabinet. See *Figures 16* through *19*.
l. Remove two screws and shoulder washers holding the upper dryer base to the top side of the control cabinet. See *Figures 16* through *19*.
m. Reach in through front opening of control cabinet and remove two screws (per side) holding the control cabinet front to the front flange of the control cabinet wrapper. See *Figures 16* through *19*.
n. METERED MODELS (Coin Drop and Coin Slide) - Unlock and remove two coin drawers. Reach in through coin drawer opening and remove two screws (per side) holding control cabinet to control cabinet wrapper. See *Figure 17*.
o. Reach through control panel opening and remove two screws holding the control cabinet wrapper tabs to the control cabinet front tabs. See *Figures 16* through *19*.
p. Carefully pull control cabinet front straight out from between the upper and lower dryers. See *Figures 16* through *19*.

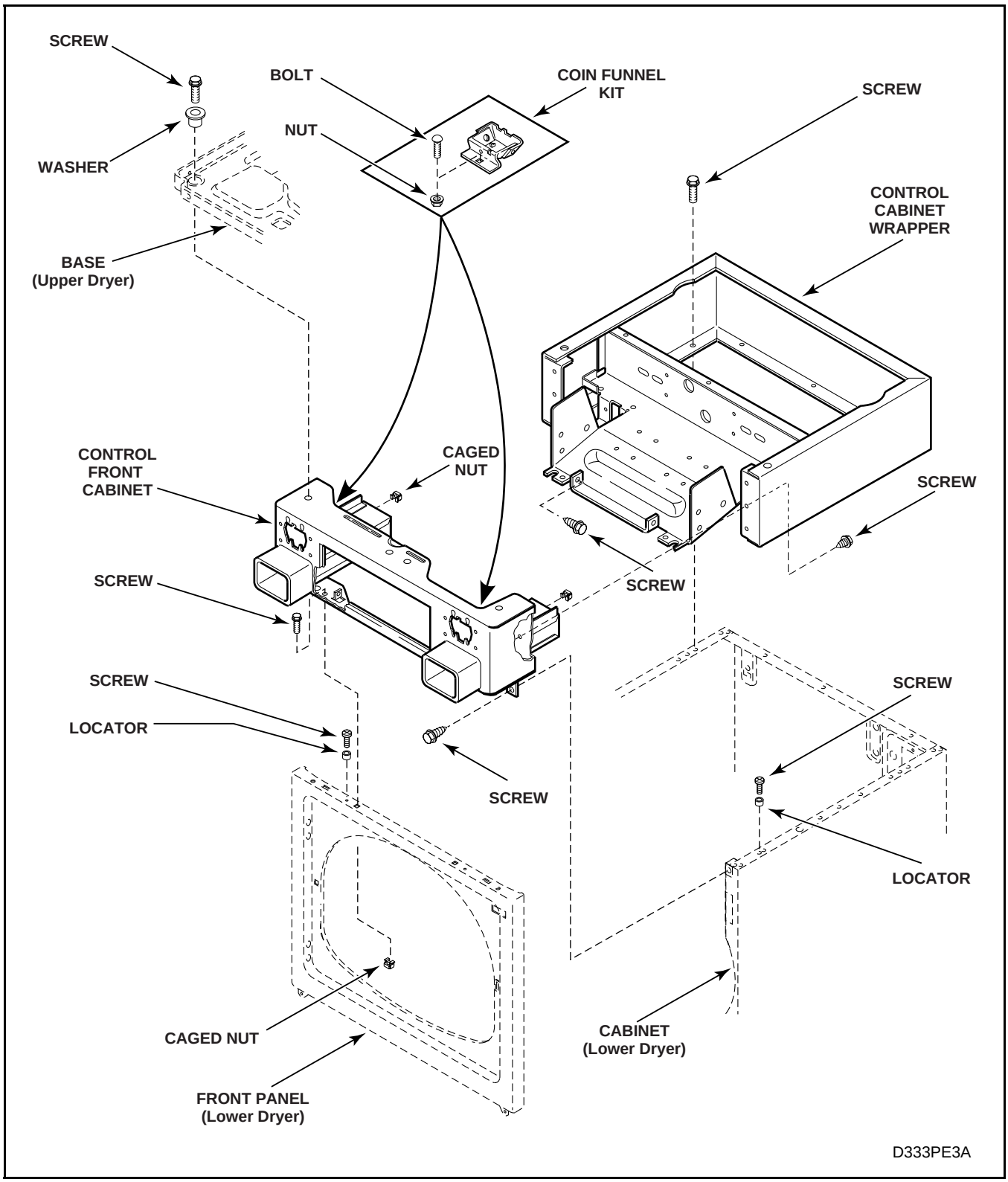


Figure 16

CONTROL CABINET (Coin Slide Ready)
(Models HSE117*C2802, HSE117*C2902, HSG119*C0902, SSE117*A3000, SSE117*A4350, SSE117*A5412, SSG119*A3000, SSG119*A3058, SSG119*A5412 and SSG119*A5480)

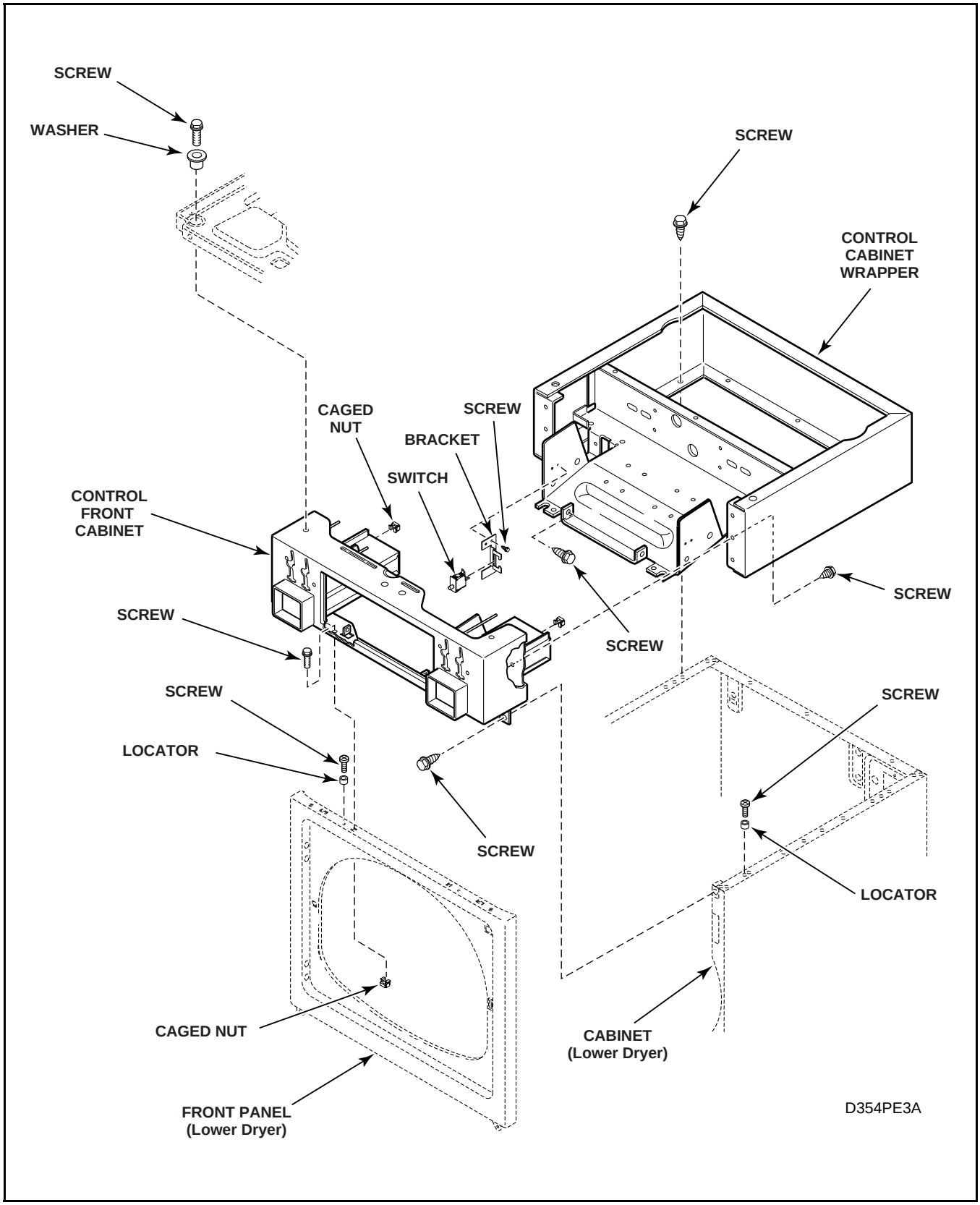


Figure 17

CONTROL CABINET (Coin Drop)
(Models HSE517*C2802, HSE517*C2902, HSG519*C0902, SSE417*A3000, SSE417*A4350 and SSG419*A3000)

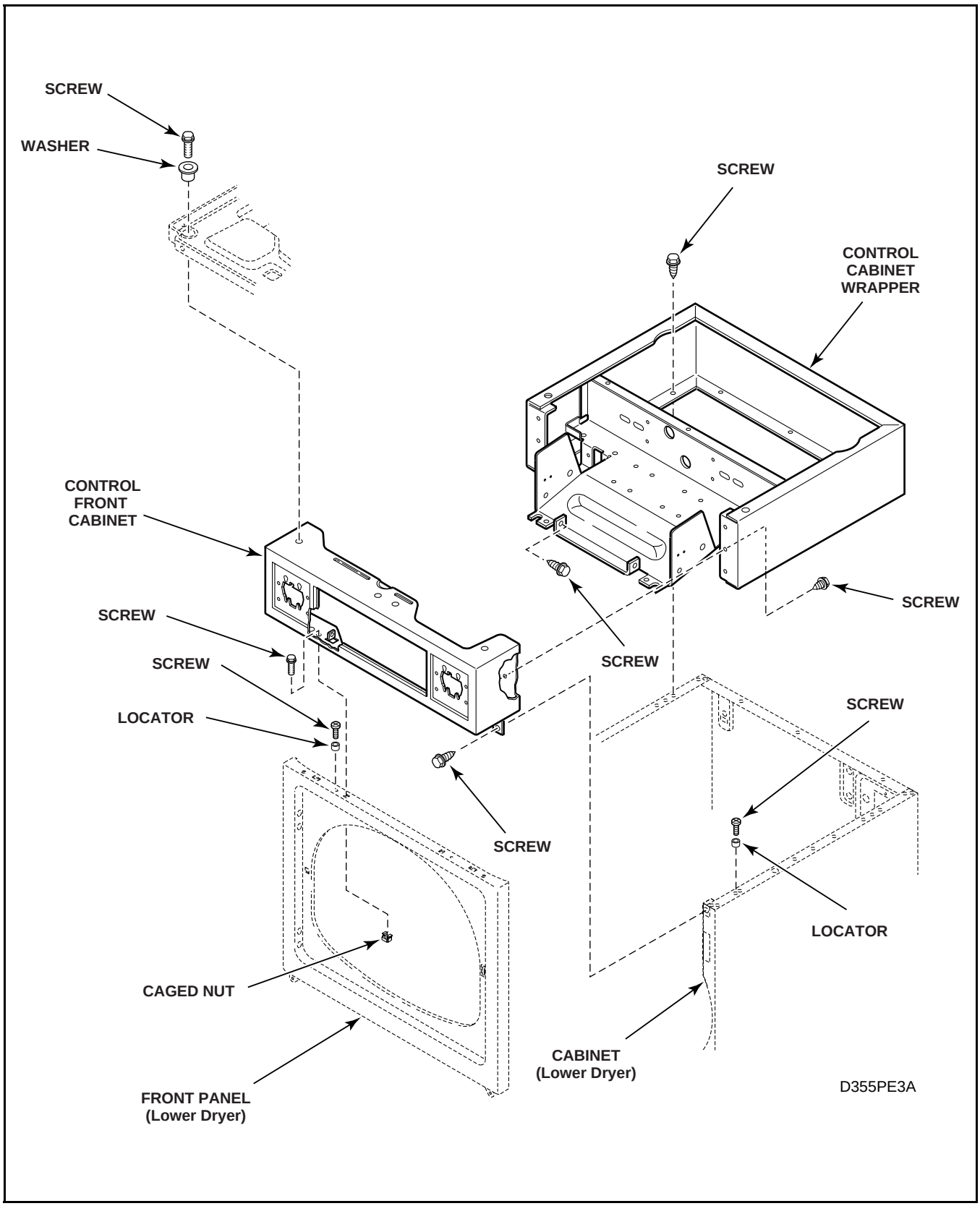


Figure 18

CONTROL CABINET (Card Reader Ready)
(Models HSE617*C2802, HSE617*C2902 and HSG619*C0902)

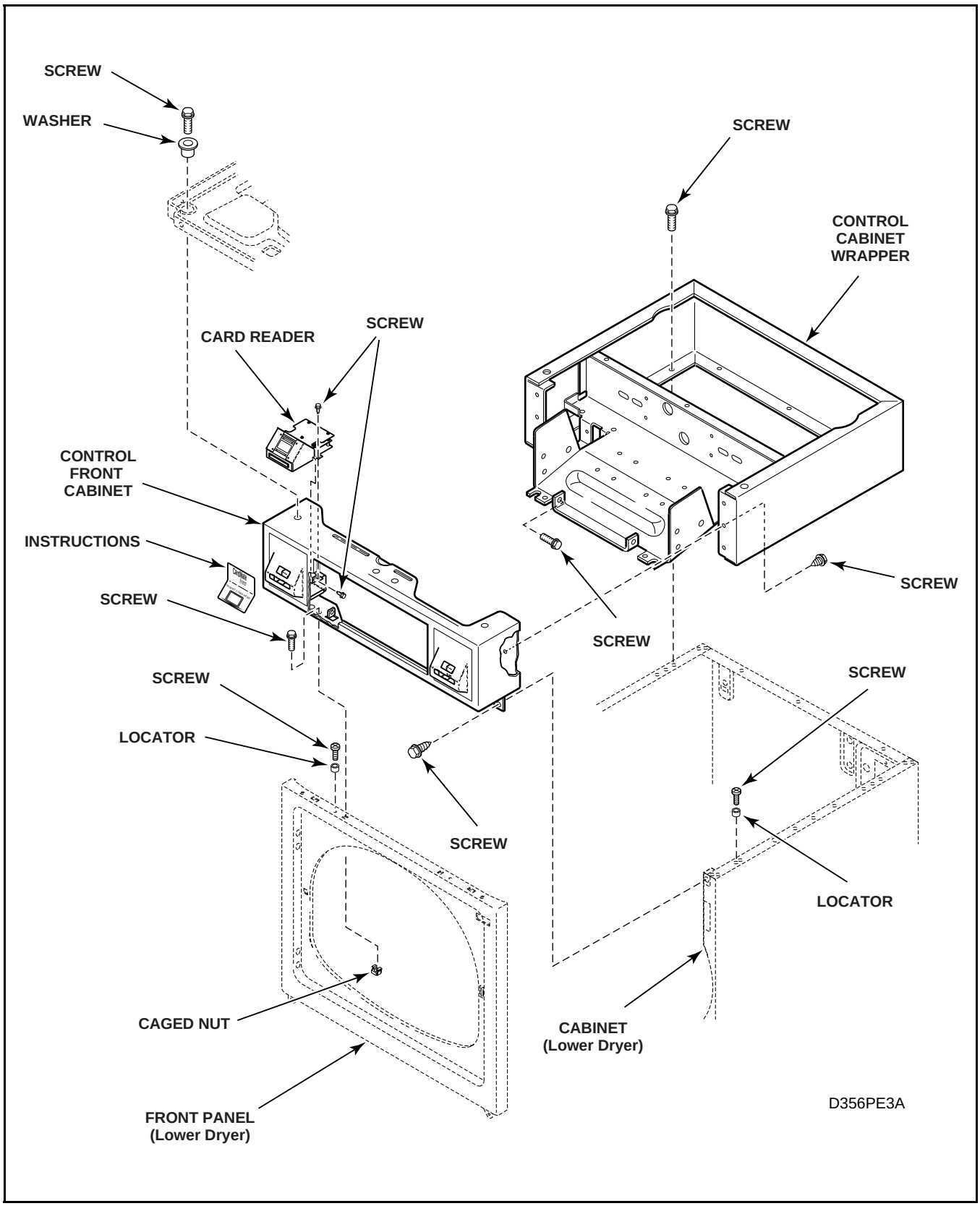


Figure 19

CONTROL CABINET (Card Reader Installed)
(Models HSE717*C2802, HSE717*C2902 and HSG719*C0902)

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

22. CONTROL PANEL OVERLAY (Electromechanical Models)

a. **Removal**

(1.) Unlock control panel. See *Figure 8A*.

(2.) Pull top of control panel away from control cabinet and lift up. See *Figure 8B*.

(3.) Remove control panel from control cabinet. See *Figure 8C*.

(4.) Disconnect all wires to components. See *Figure 9*.

(5.) Remove ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

(6.) Loosen setscrew holding control knob to temperature selector switch shaft and pull knob off shaft. See *Figures 10* or *11*.

(7.) Remove knurled nut holding temperature selector switch and lockwasher to panel, then remove switch and lockwasher. See *Figures 10* or *11*.

(8.) Remove nut holding push-to-start switch assembly and lockwasher to panel, then remove switch and lockwasher. See *Figures 10* or *11*.

(9.) Squeeze locking tabs on indicator light, then pull light out through back of panel. *Figures 10* or *11*.

(10.) Remove locknut and lockwasher holding cam to lock assembly. See *Figures 10* or *11*.

(11.) Remove large locknut holding lock assembly to control panel frame and overlay, then remove lock. See *Figures 10* or *11*.

NOTE: The control panel overlay has an adhesive backing.

(12.) Remove control panel overlay by carefully peeling it from the control panel frame.

b. **Installation**

NOTE: Before removing protective backing from new control panel overlay, make sure overlay fits on the control panel frame. Switch holes are the locating guides.

(1.) Once the overlay has been fitted to the control panel frame, carefully peel the protective backing from either end of the overlay and firmly press end of overlay into place.

(2.) Remove the rest of the protective backing from the overlay and firmly press the overlay into place.

(3.) Reassemble components on the control panel frame.

(4.) Reinstall control panel frame to control cabinet.

23. TIMER (Electromechanical Nonmetered Models)

a. Unlock control panel. See *Figure 8A*.

b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B*.

c. Remove control panel from control cabinet. See *Figure 8C*.

d. Disconnect all wires to components. See *Figure 9*.

e. Remove ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. Loosen setscrew holding timer knob assembly to timer shaft and pull knob off shaft. See *Figure 10*.

g. While supporting timer, remove screws holding timer to control cabinet. See *Figure 10*.

h. Pull timer out through control panel opening as far as wires will permit.

i. Disconnect wires from timer.

NOTE: Refer to appropriate wiring diagram when rewiring timer.

j. Remove ground wire from ground terminal on timer. See *Figure 6*.

WARNING

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

W001R1

24. ACCUMULATOR (Electromechanical Metered Models)

a. Unlock control panel. See *Figure 8A.*

b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B.*

c. Remove control panel from control cabinet. See *Figure 8C.*

d. Disconnect all wires to components. See *Figure 9.*

e. Remove ground clip holding ground wire to control panel. See *Figure 9.*

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. Reach in through control panel opening and remove screws holding accumulator and mounting bracket to the control cabinet. See *Figure 20*.

g. Disconnect wires from accumulator at the connectors.

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

h. Remove two screws holding accumulator to mounting bracket. See *Figure 20*.

i. **Models with Counter** (*Figure 11*)

(1.) Disconnect wire from terminal on accumulator switch "c."

(2.) Cut the other wire at the butt splice connector.

(3.) Cut harness strap holding wires to bracket.

NOTE: Harness strap must be replaced during reinstallation.

(4.) The counter(s) are mounted inside the control cabinet with two-sided tape.

NOTE: When installing a new counter, remove the protective backing from the tape located on the underside of new counter. Firmly press the new counter in place. Tape on counter will reach full adhesion in approximately twenty-four hours.

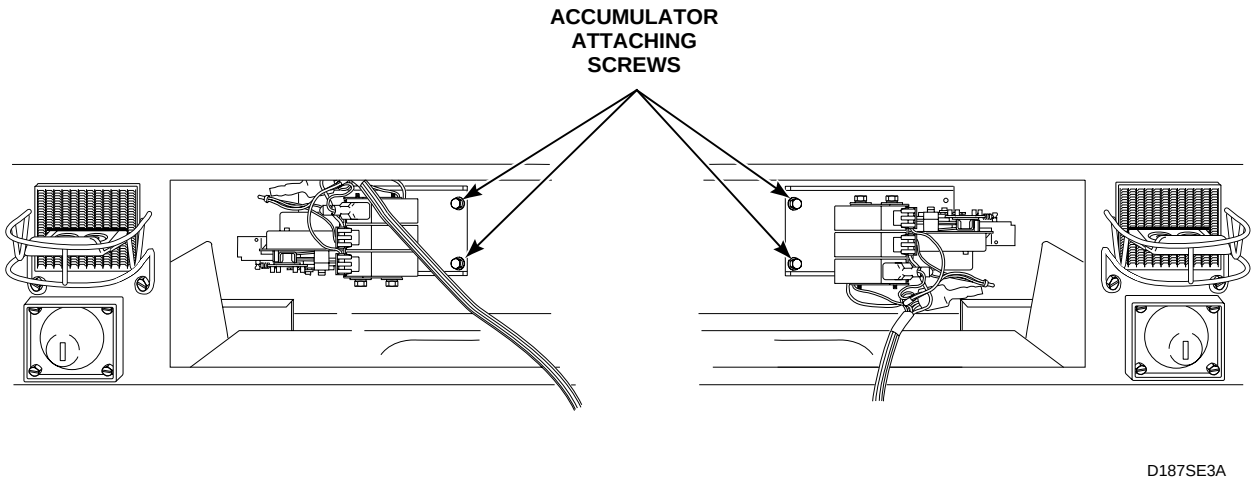


Figure 20

WARNING

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

W001R1

25. ELECTRONIC CONTROL
(***Figures 12***, ***13*** or ***14***)

IMPORTANT: Due to the sensitivity of the electronic control, careful handling is required. As a precautionary measure, we recommend using a ground wrist strap when handling the electronic control. Wrist strap, cord and alligator clips are designed to carry away any electrostatic charge from your body and to direct charge to an available ground. By using this static protection device, potential electrostatic discharge problems associated with handling of electronic control will be minimized. Always handle electronic control by its metal edges. If a wrist strap is not available, touch dryer while it is plugged in before handling control to dissipate any charge.

NOTE: New control is supplied in special anti-static packaging material. While holding control by its metal edges, remove control from packaging material.

a. Unlock control panel. See *Figure 8A*.
b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B*.
c. Remove control panel from control cabinet. See *Figure 8C*.
d. Press in on locking tabs and unplug harness disconnect blocks from backside of electronic control assembly.
e. Remove ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

NOTE: DO NOT pull on wires. Instead, hold board near appropriate disconnect block and unplug by pulling in disconnect block.

f. Remove four screws holding electronic controls assembly to backside of control panel.
g. Place the old control in the anti-static packaging material that the new control was supplied in.
h. While holding new control by its metal edges, carefully peel off protective plastic coating from front side of control. Then place control in opening of control panel and fasten control down with four screws.
i. Follow wiring diagram and reconnect wires to new control.

IMPORTANT: It is important to take care when handling the original control. It must be carefully placed in the packaging material which was removed from new control. If control is not wrapped properly, warranty credit will not be issued.

WARNING

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

W001R1

26. COIN DROP

a. Removal

(1.) Unlock control panel. See *Figure 8A.*

(2.) Pull top of control panel away from control cabinet and lift up. See *Figure 8B.*

(3.) Remove control panel from control cabinet. See *Figure 8C.*

(4.) Disconnect all wires from control panel components. See *Figure 9.*

(5.) Remove ground clip holding ground wire to control panel. See *Figure 9.*

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

(6.) Reach into control cabinet to feel position of coin drop. Disconnect coin drop harness at disconnect plug. See *Figure 21*.

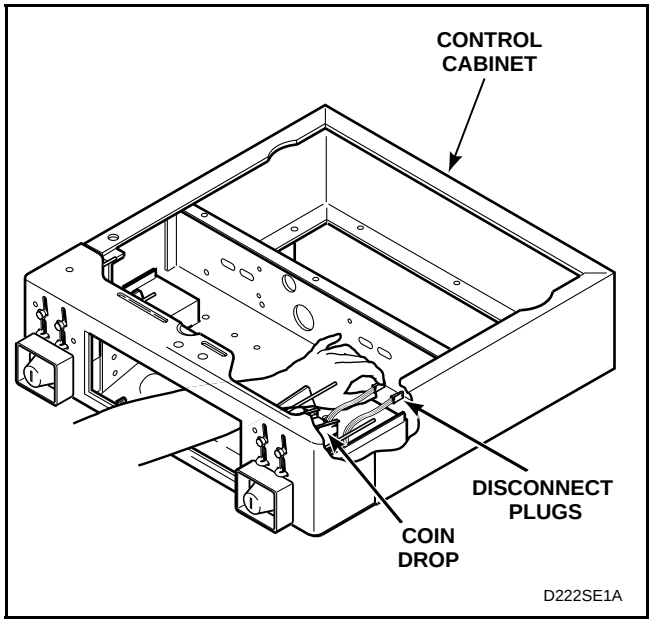


Figure 21

(7.) Use a 3/8 inch square drive 7/16" socket with No. 310P4 1/4 inch Ratchet Extension Tool to remove two locknuts holding coin drop to front of control cabinet. See *Figure 22*.

NOTE: A 3/8 inch square drive socket, size 7/16", fits over the end of the 310P4 extension tool. A 1/4 inch ratchet fits in the other end.

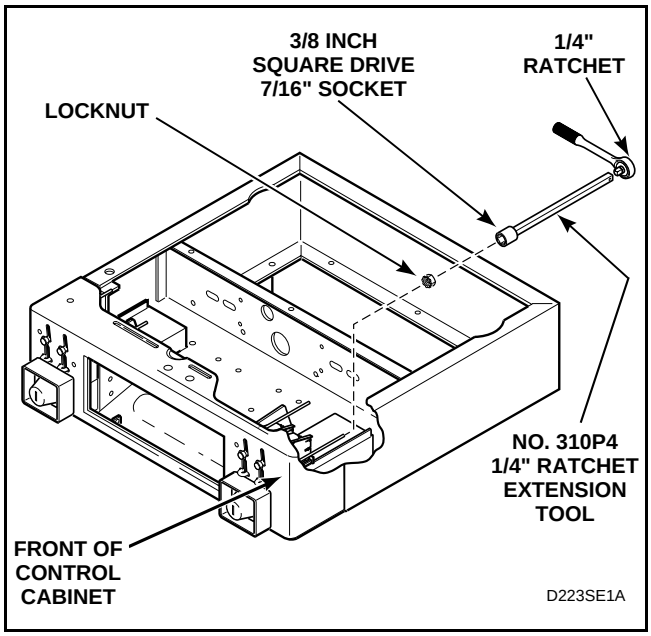


Figure 22

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

(8.) Lift back end of coin drop and pull straight back until front edge of the drop's front face plate clears the two guide wires. See *Figure 23*.

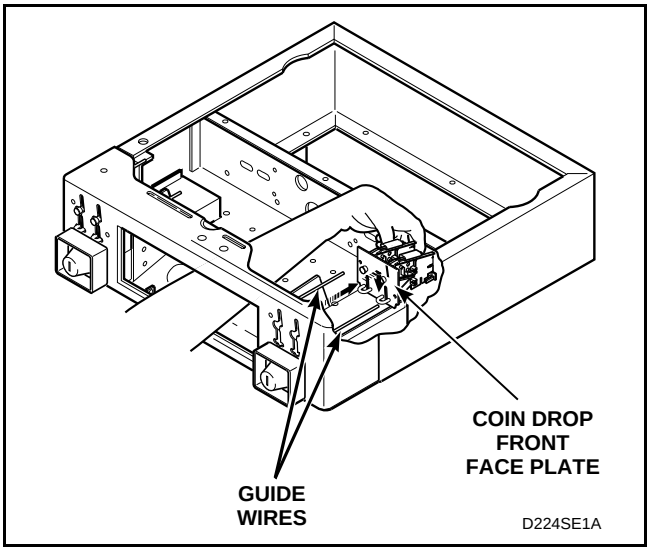


Figure 23

(9.) Carefully slide drop horizontally until drop clears inside wall of control cabinet. Remove drop through front opening of control cabinet. See *Figure 24*.

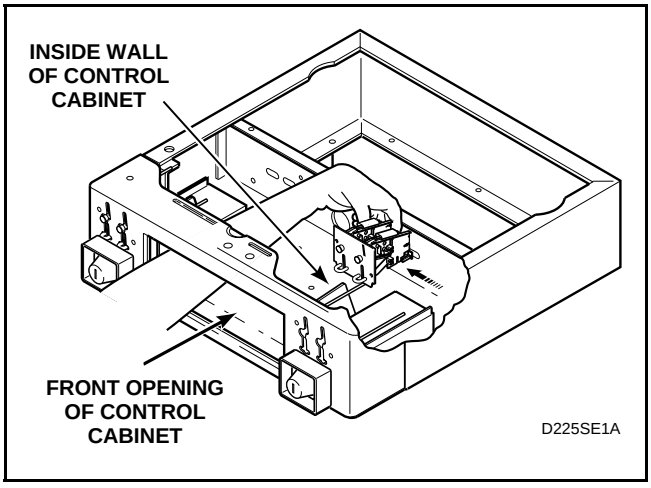


Figure 24

b. Installation

(1.) Reinstall drop through front opening of control cabinet. Gently lift the drop up onto control cabinet's coin vault. See *Figure 25*.

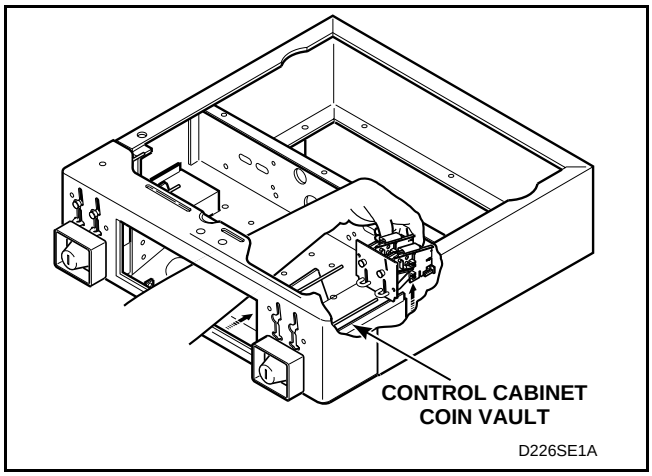


Figure 25

(2.) Carefully pull coin drop slightly up and forward. Turn the outer side of coin drop's front face plate slightly to feel the outer guide wire line up and enter the front face plate's lower hole. Gently tug coin drop sideways to feel if the outer guide wire has gone through the hole. See *Figure 26*.

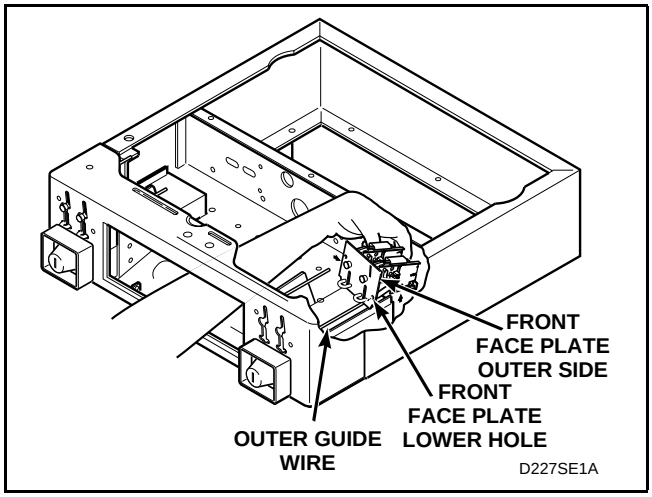


Figure 26

WARNING

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

W001R1

(3.) Pull the inner side of the coin drop's front face plate forward so the inner guide wire enters the front face plate's lower hole. Gently tug coin drop sideways to feel if the inner guide wire has entered the hole. See *Figure 27*.

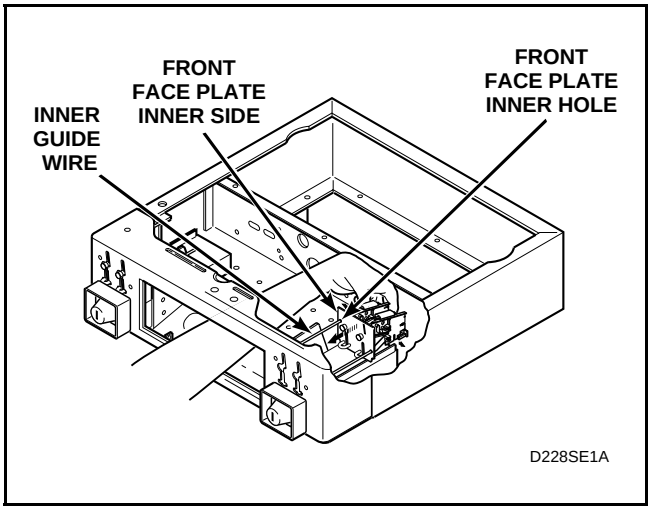


Figure 27

(4.) Carefully slide coin drop forward into position, as shown in *Figure 28*. (Front face plate of coin drop should be secure against control cabinet, with coin return stop completely through slot.)

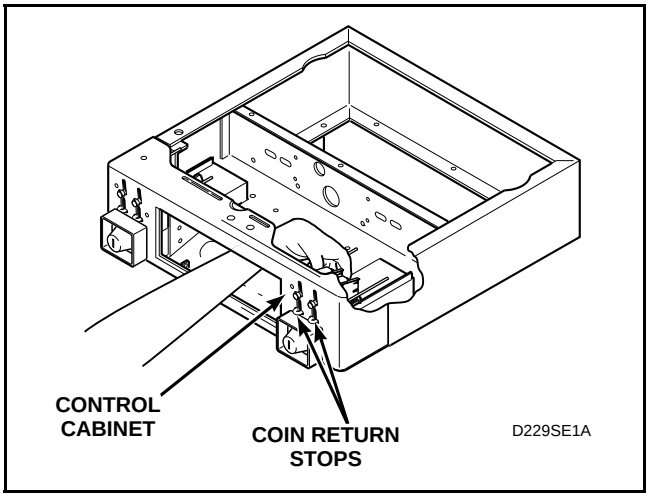


Figure 28

(5.) Using a 3/8 inch square drive 7/16" socket with No. 310P4 1/4 inch Ratchet Extension Tool, reinstall locknut. Tighten locknut firmly. See *Figure 22*.

(6.) Reconnect coin drop harness plug. See *Figure 21*.

(7.) Reinstall ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

(8.) Reconnect all wires to the control panel components by referring to the appropriate wiring diagram. See *Figure 9.*

(9.) Repeat procedure to service coin drop on opposite side of control cabinet.

(10.) Reinstall control panel to control cabinet. See *Figure 8*.

(11.) Lock control panel.

27. CARD READER

a. Unlock control panel. See *Figure 8A*.

b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B*.

c. Remove control panel from control cabinet. See *Figure 8C*.

d. Disconnect all wires to components. See *Figure 9*.

e. Remove ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. Remove screws holding card reader to control cabinet. See *Figure 19*.

g. Disconnect wires from card reader at the connectors.

NOTE: Refer to appropriate wiring diagram when rewiring the card reader.

h. Carefully remove card reader through control panel opening. See *Figure 19*.

WARNING

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

W001R1

28. CABINET TOP (Upper Dryer)

a. While supporting the upper access panel, remove two screws from bottom edge of upper access panel. See *Figure 7*.

b. Gently lower access panel to disengage panel locators from bottom edge of access panel. See *Figure 7*.

c. Remove two screws holding bottom tabs on front panel to upper dryer cabinet. See *Figures 16* through *19*.

d. Swing bottom of front panel away from upper dryer to disengage hold-down clips from cabinet top.

e. Disconnect wires from door switch. See *Figure 15*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

f. Remove two screws holding cabinet top to front flange of cabinet. See *Figure 29*.

g. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. See *Figure 30*.

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

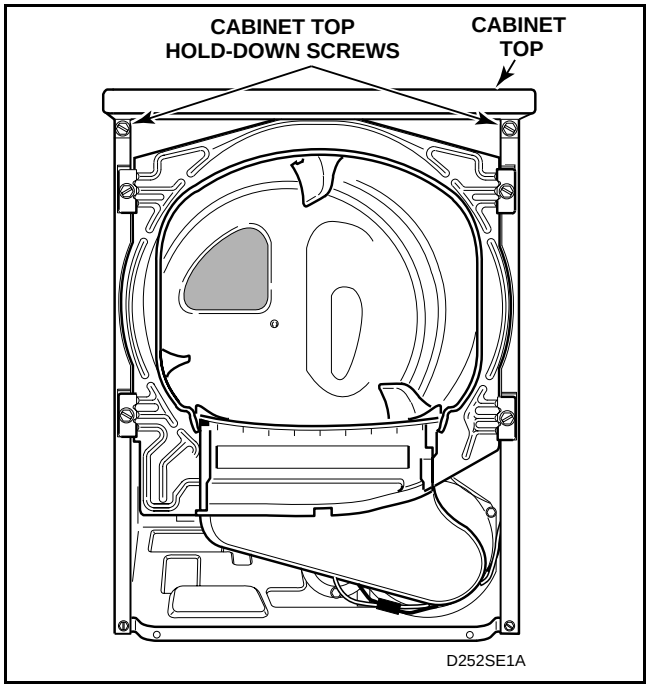


Figure 29

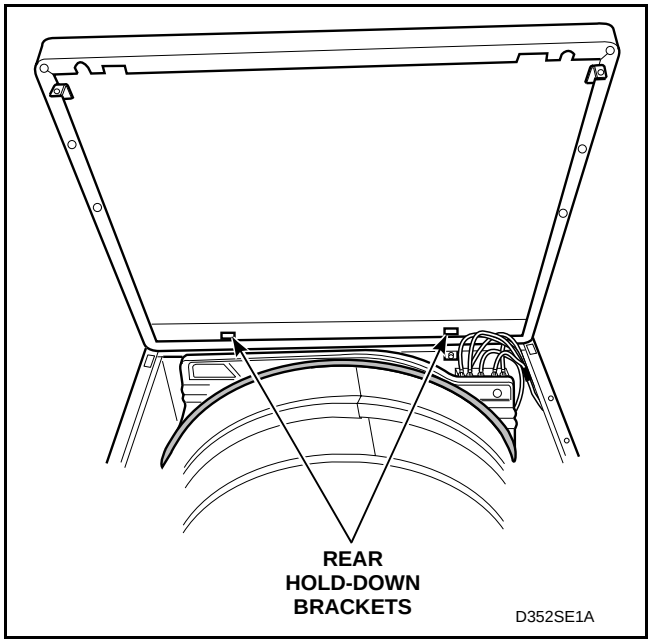
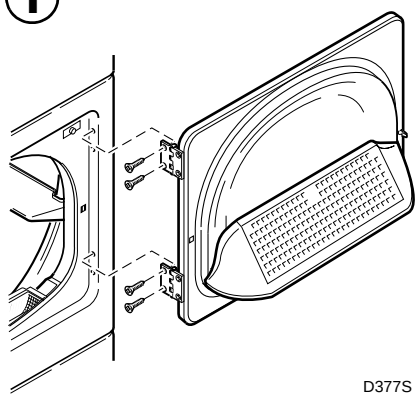


Figure 30

Reversing Door Procedure

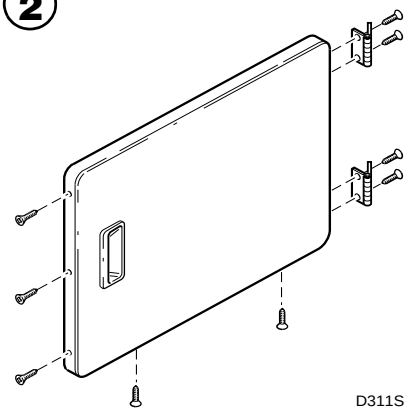
The door on this dryer is completely reversible. To reverse door proceed as follows:

1



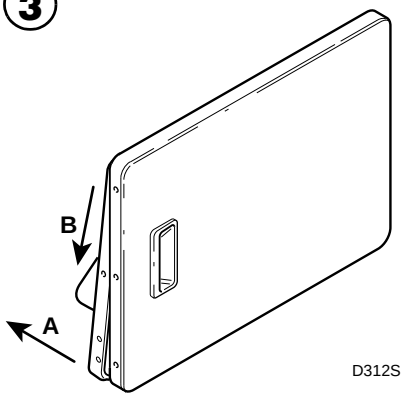
Remove four hinge attaching screws.

2



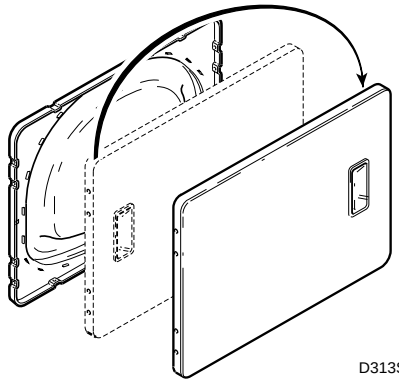
Remove all nine screws.

3



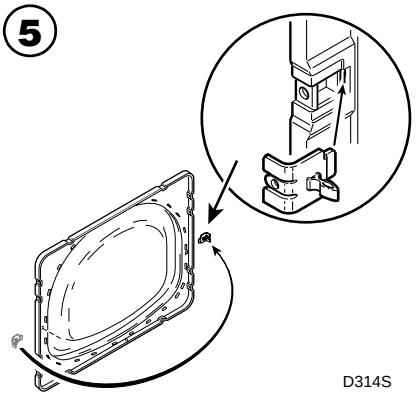
Pull bottom of door liner out, then pull down, removing door liner from door panel.

4



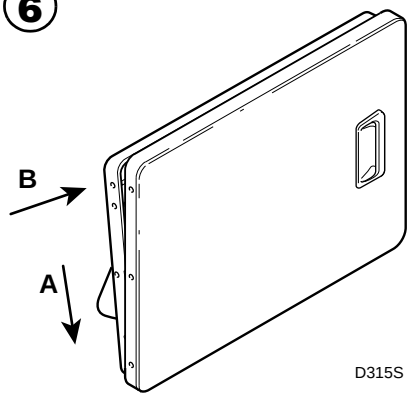
Rotate door panel 180 degrees as shown.

5



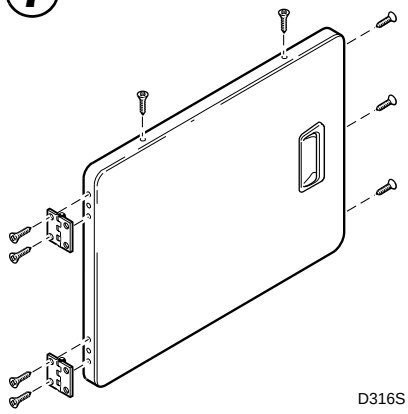
Remove door strike from door liner and reinstall on opposite side.

6



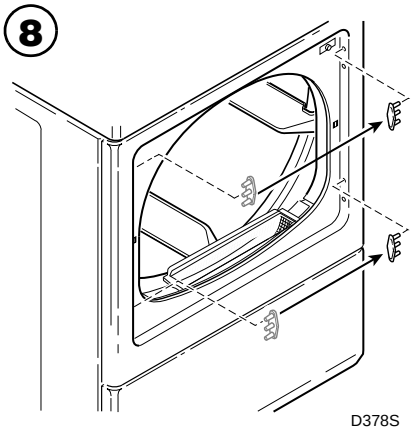
Insert liner under flange on bottom of door, then push top of door liner into place.

7



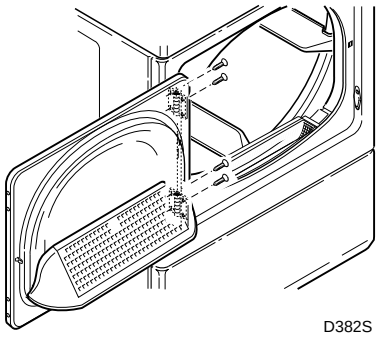
Reinstall nine screws removed in Step 2.

8



Using a screwdriver, remove two door plugs, and reinstall on opposite side of door opening.

9



Reinstall four hinge attaching screws removed in Step 1.

Figure 31

WARNING

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

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29. INNER AND OUTER DOOR PANELS AND DOOR PULL

a. Remove four screws holding door assembly to hinges. See *Figure 36*.

b. Remove remaining screws around the door perimeter and separate panels. See *Figure 32*.

c. Remove wedge (located behind door pull) by carefully prying up on center of wedge. See *Figure 32*.

d. Remove door pull. See *Figure 32*.

30. DOOR STRIKE (*Figure 32*)

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 strike and bracket removal.

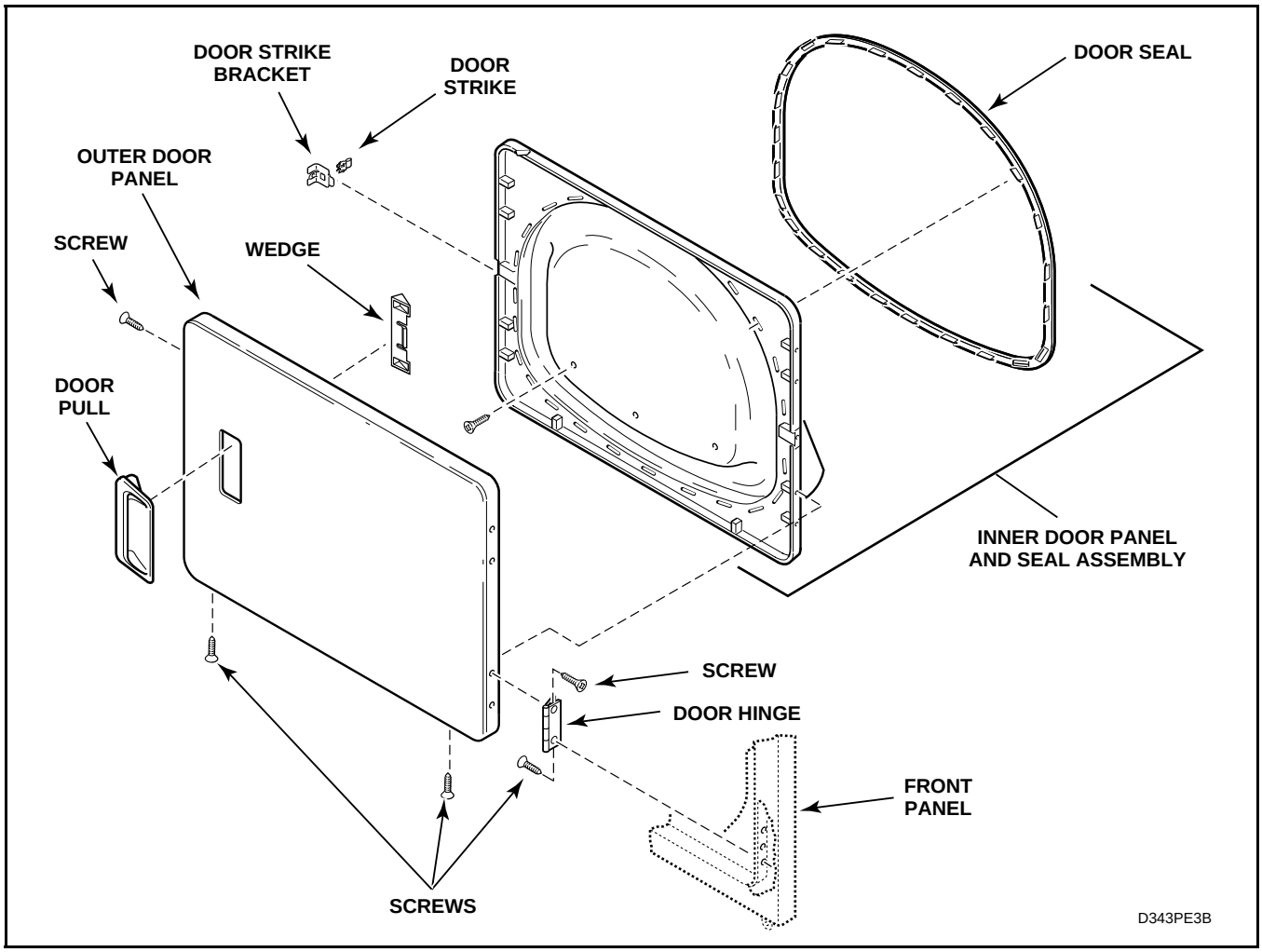

Figure 32

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

31. DOOR SEAL
(***Figure 33***)

a. Remove inner door panel from outer door panel. See *Paragraph 29*.

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 33*.

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 33*. 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.

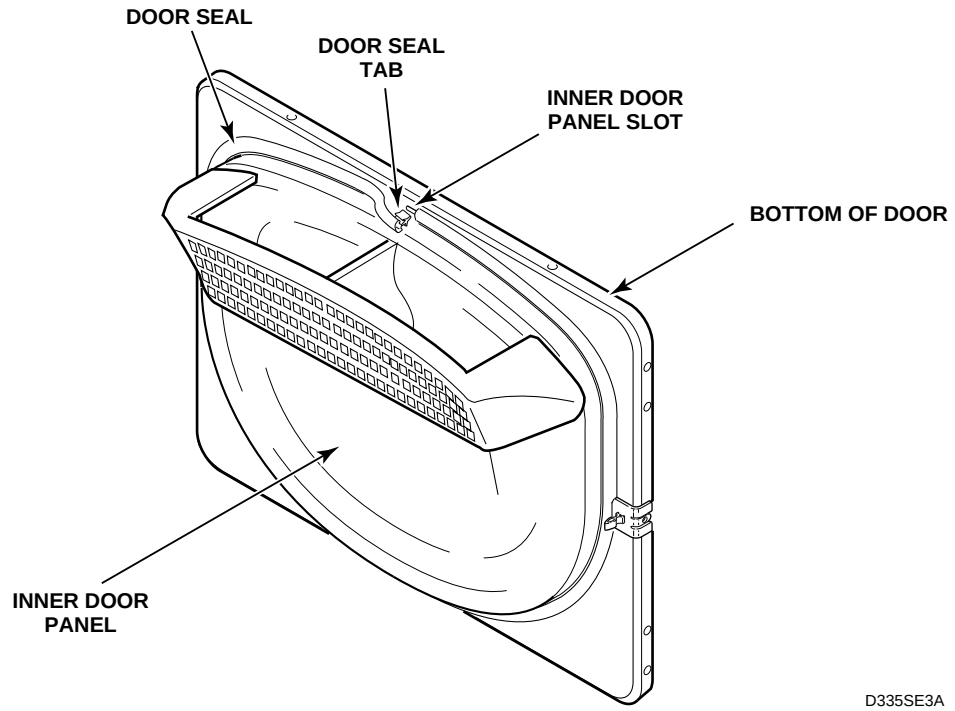

Figure 33

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

32. FRONT PANEL AND PANEL SEAL (*Figure 35*)

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

NOTE: Some models may have security cap screws installed. Security cap screws are located in the control cabinet behind the control panel. Unlock and remove control panel to see if these screws are present. If security cap screws are present, remove them.

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. See *Figure 34*.

NOTE: Refer to appropriate 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.

33. DOOR SWITCH

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

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 34*.

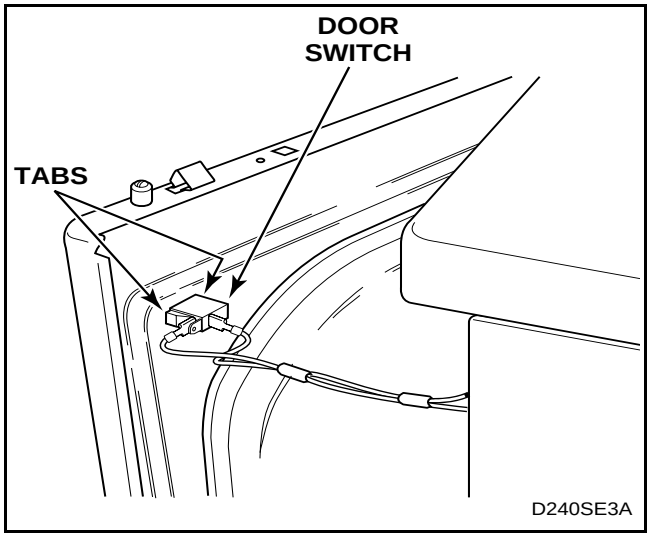

Figure 34

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Depress tabs on switch and push out of front panel. See *Figure 34*.

34. DOOR CATCH (*Figure 35*)

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

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. See *Figure 34*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

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

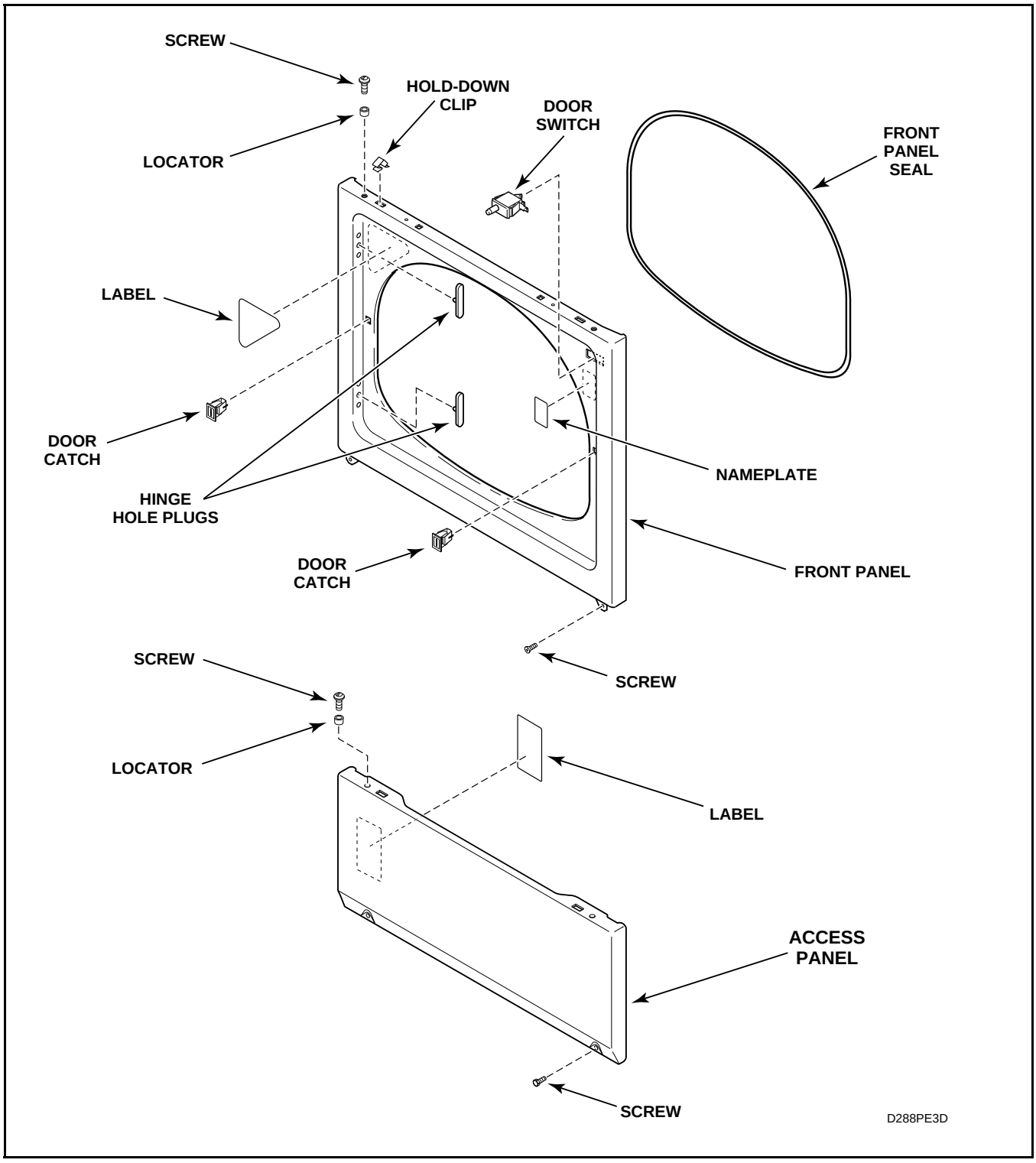
SCREW
HOLD-DOWN CLIP
DOOR SWITCH
FRONT PANEL SEAL
LOCATOR
LABEL
DOOR CATCH
HINGE HOLE PLUGS
NAMEPLATE
DOOR CATCH
FRONT PANEL
SCREW
SCREW
LOCATOR
LABEL
ACCESS PANEL
SCREW
D288PE3D

Figure 35

WARNING

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

W001R1

35. LINT FILTER
(*Figure 36*)

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

b. 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.

36. LOADING DOOR AND DOOR HINGE

a. Open loading door.

b. Remove screws holding loading door to hinges. See *Figure 36*.

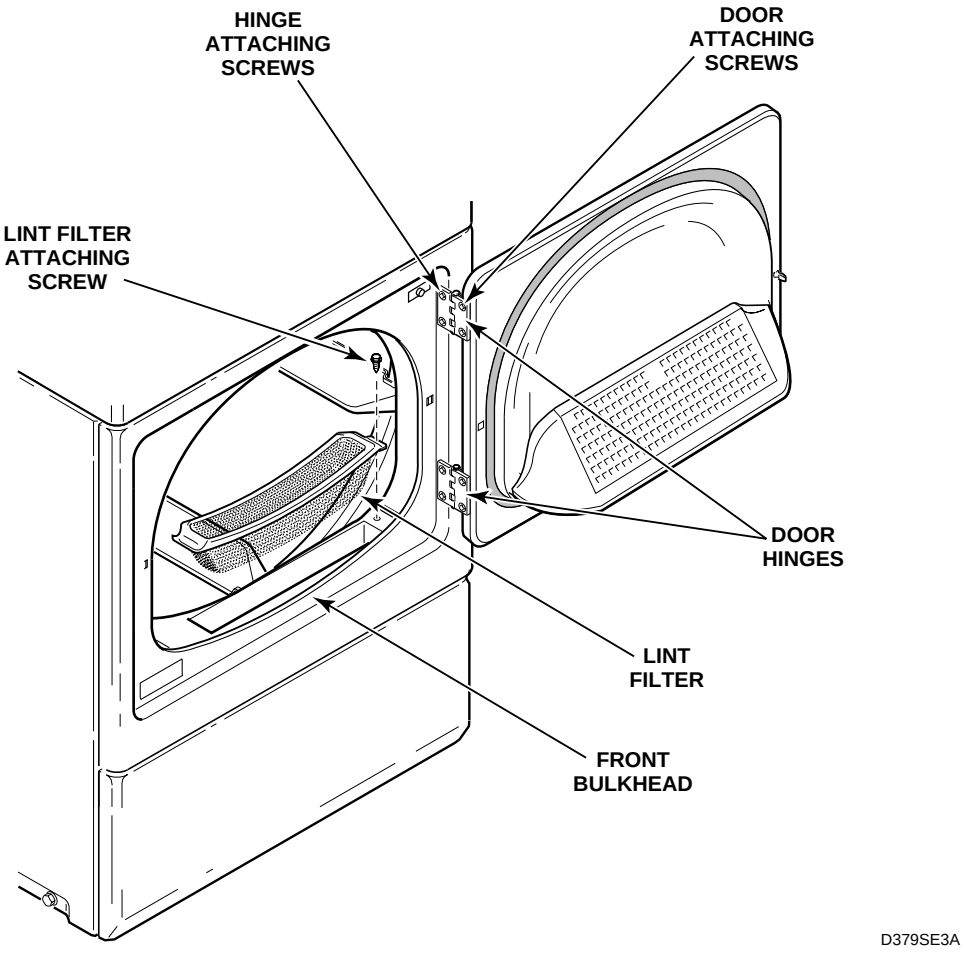

Figure 36

WARNING

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

W001R1

37. DOOR HINGE (*Figure 36*)

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.

38. HOLD-DOWN CLIPS AND LOCATORS (*Figure 35*)

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

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. See *Figure 34*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Compress hold-down clips and remove from top of front panel.

f. Remove four screws holding four locators to access panel or front panel.

39. 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 7*.

(2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

(3.) Close main gas shut-off valve.

(4.) **Silicon Carbide Ignition:** 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 37*.
Silicon Nitrate Ignition: Disconnect wire harness from igniter and sensor assembly, and from gas valve coils at disconnect blocks. See *Figure 38*.

(5.) Disconnect gas shut-off valve from gas valve at the union nut. See *Figure 37*.

(6.) Remove three screws holding valve and mounting bracket to base. See *Figure 37*.

(7.) Lift gas valve and mounting bracket from base. See *Figure 37*.

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

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

SILICON CARBIDE IGNITION SYSTEM

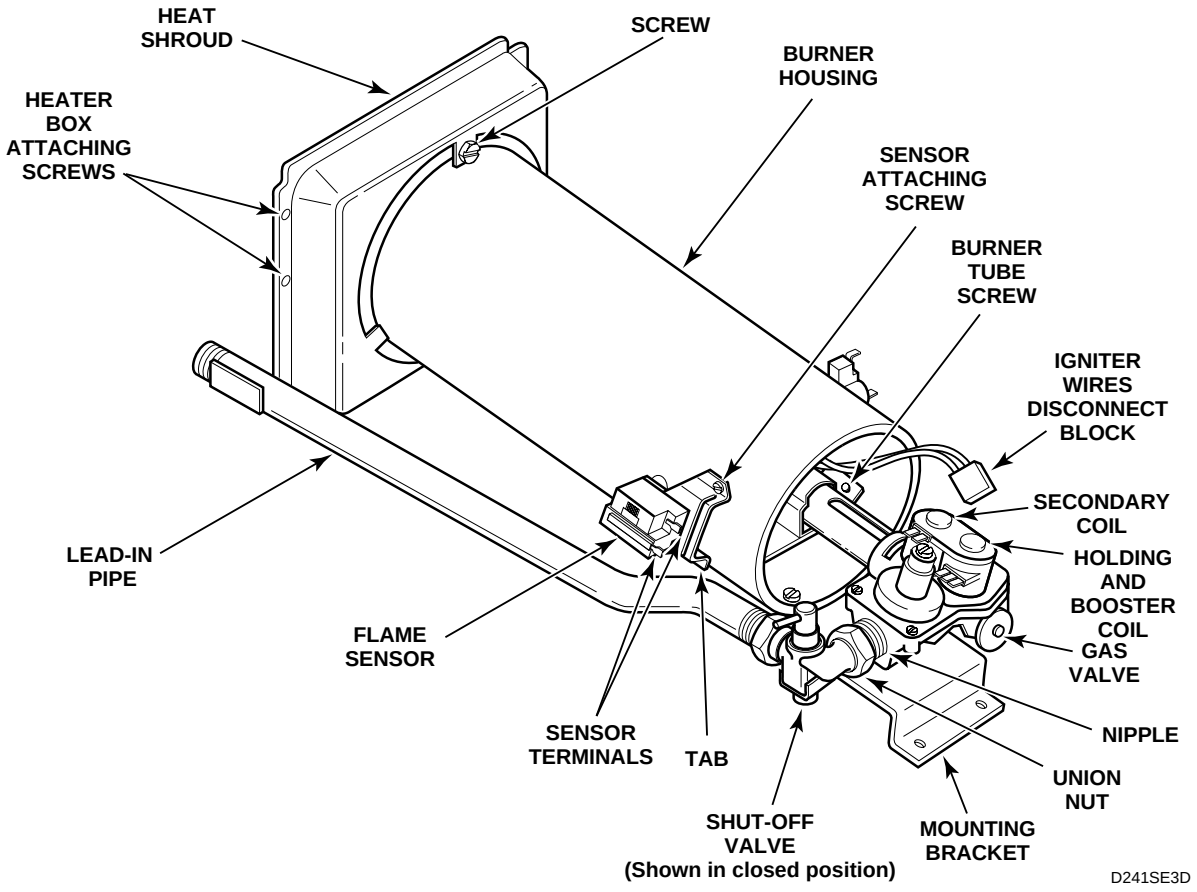

Figure 37

WARNING

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

W001R1

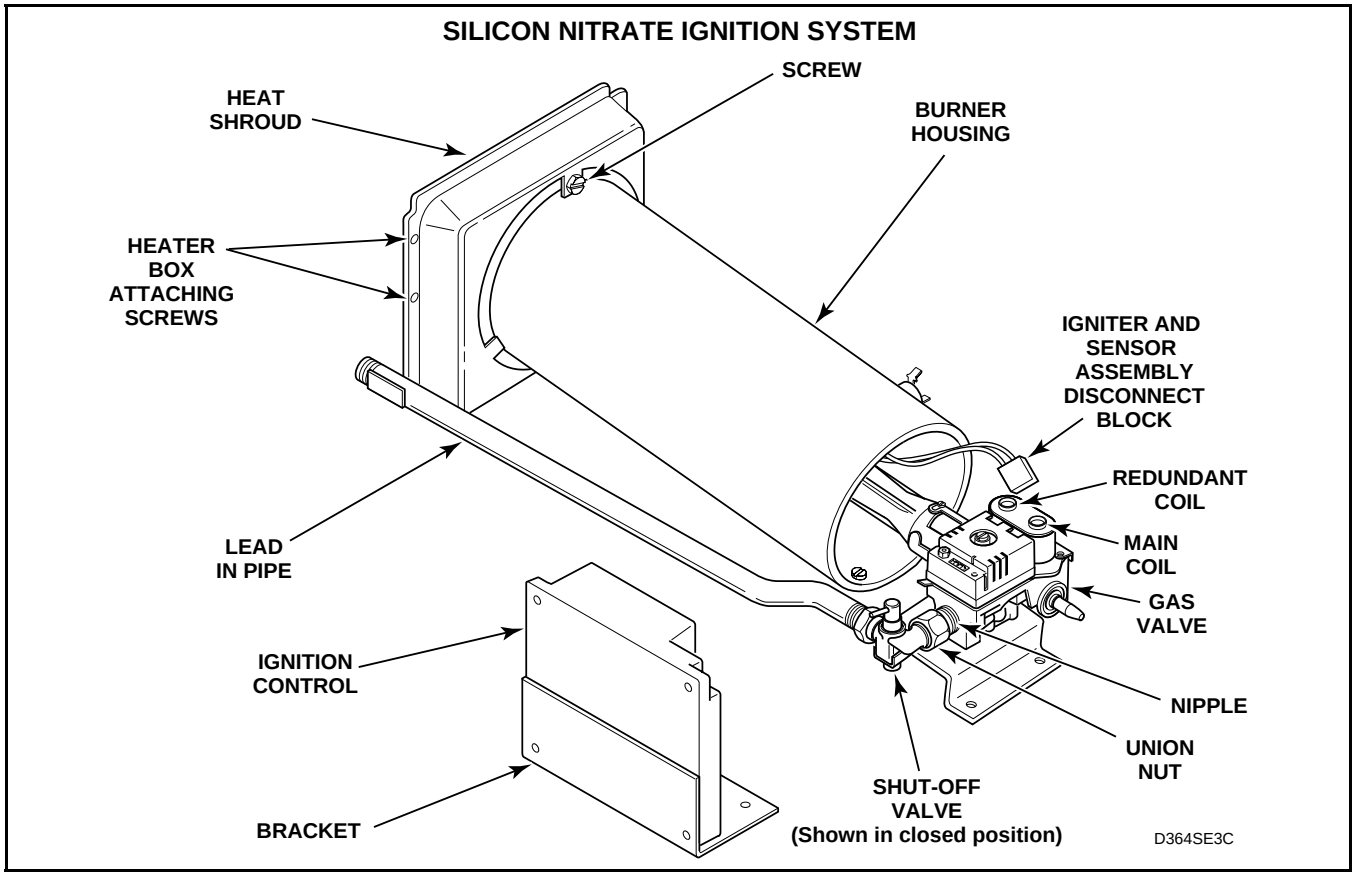

Figure 38

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 40*.

(2.) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. See *Figure 40*.

(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 39*.

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

WARNING

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

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

c. **Ignition Control**

(1.) While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

(2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

(3.) Remove wire harness from ignition control.

(4.) Remove screws holding ignition control to bracket. See *Figure 39*.

(5.) Carefully remove ignition control. See *Figure 39*.

NOTE: For information on ignition control flashes, see *Paragraph 14*.

d. **Flame Sensor**

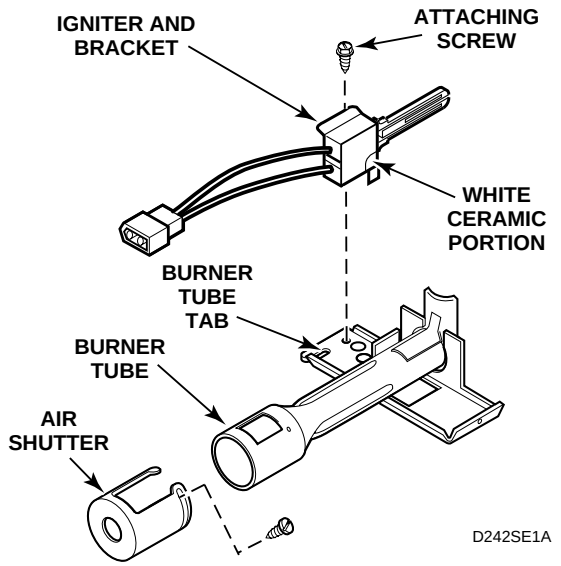
(1.) While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

(2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

(3.) Disconnect wire harness from igniter and sensor assembly.

(4.) Remove screw holding igniter and sensor assembly to burner tube. See *Figure 39*.

SILICON CARBIDE IGNITION SYSTEM



SILICON NITRATE IGNITION SYSTEM

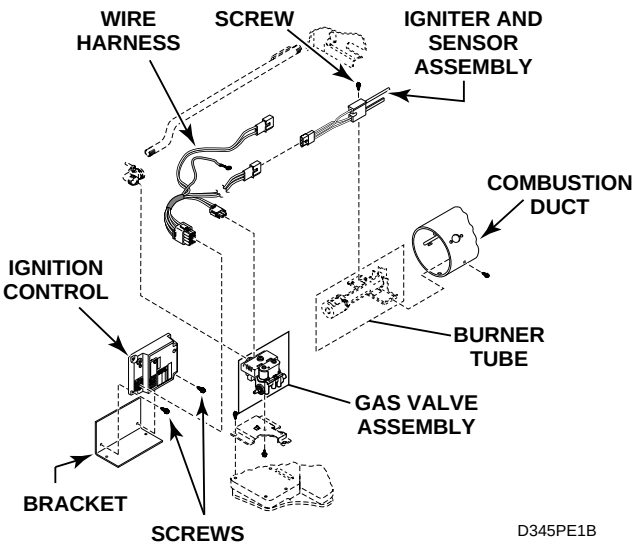


Figure 39

WARNING

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

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40. BURNER HOUSING AND HEAT SHROUD (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. **Silicon Carbide Ignition:** 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 37*.

Silicon Nitrate Ignition: Disconnect wire harness from igniter and sensor assembly, and from gas valve coils at disconnect blocks. See *Figure 38*.

d. Remove screw from right side of burner housing, while holding burner tube in place. See *Figure 40*.

e. Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. See *Figure 40*.

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 38*.

i. Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. See *Figure 40*.

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

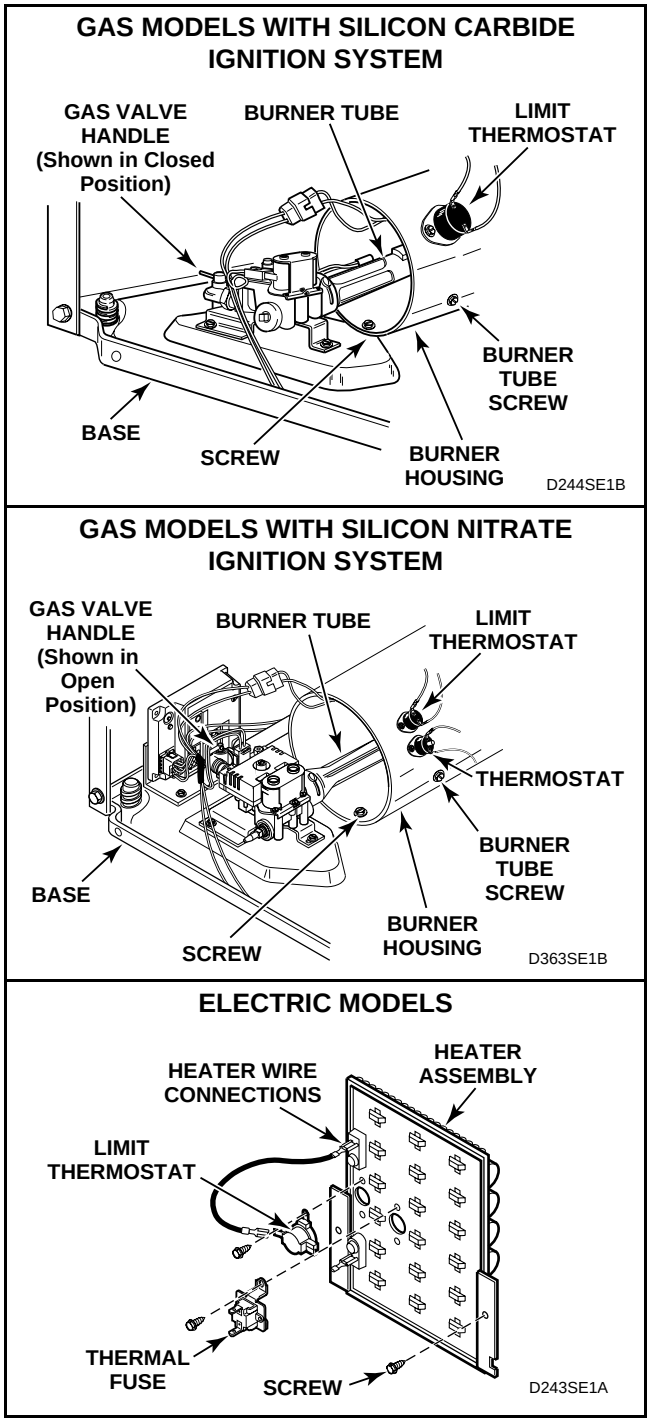

Figure 40

WARNING

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

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41. LIMIT THERMOSTAT

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.
c. Disconnect wires and remove screws attaching limit thermostat to burner housing or element plate. See *Figure 40*.
d. Repeat procedure on models with more than one thermostat.

42. HEATING ELEMENT (Electric Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.
c. Disconnect wires from element and plate. See *Figure 40*.
d. Remove two screws holding element and plate to heater box and remove element and plate out through front of dryer. See *Figure 40*.

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

43. THERMOSTAT

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.
c. Disconnect wires and remove thermostat attaching screws and thermostat. See *Figure 41*.

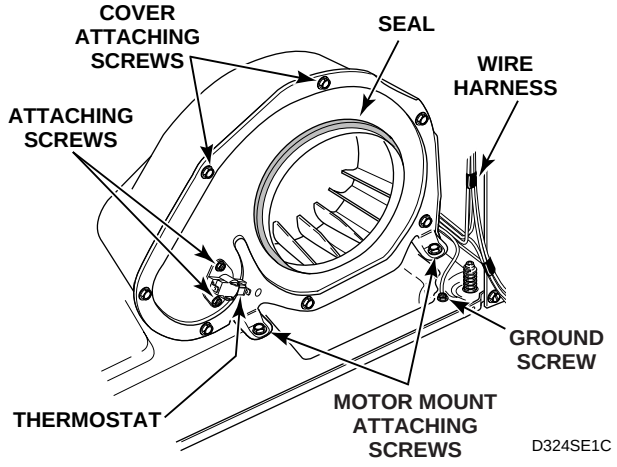


Figure 41

WARNING

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

W001R1

44. AIR DUCT

a. **Lower Air Duct**

(1.) While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

(2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

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 42*.

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 41*. 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 7*.

(2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

(3.) Remove three screws holding upper air duct to lower air duct.

(4.) Remove three screws holding upper air duct to front bulkhead.

(5.) Carefully lift upper air duct out of dryer.

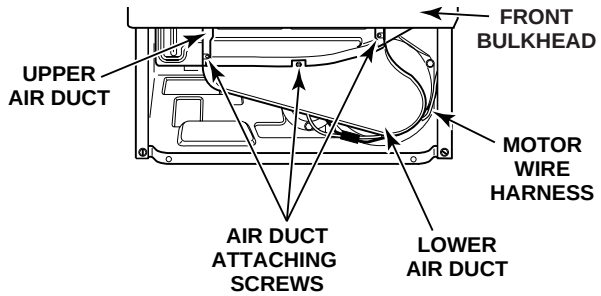


Figure 42

WARNING

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

W001R1

45. MOTOR AND EXHAUST ASSEMBLY

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Open loading door, remove screw, and lift filter out of bulkhead.

d. Remove screws holding lower air duct to upper air duct and remove lower air duct. See *Figure 42*.

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 41*. 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, then disconnect ground wire screw.

NOTE: Refer to appropriate wiring diagram when rewiring thermostat.

f. Remove cylinder belt from idler and motor pulleys. See *Figure 43*.

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 46* and *47*.

h. Remove two screws holding motor mounting bracket to dryer base. See *Figure 41*.

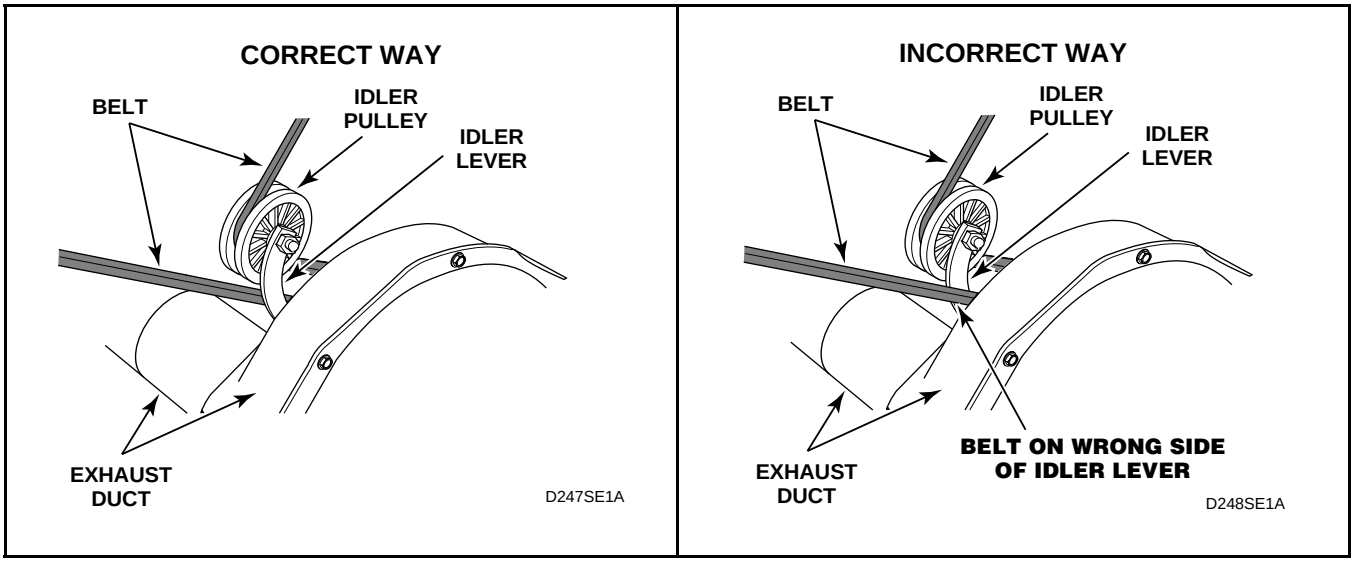


Figure 43

WARNING

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

W001R1

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 41*. 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 42*. 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 43*.

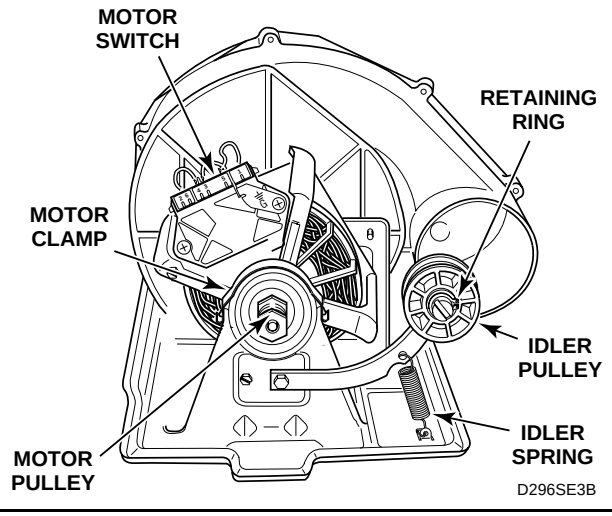


Figure 44

i. Pull assembly forward and disengage the middle exhaust duct.

j. Rotate the assembly 90° counterclockwise and slide out through front of dryer.

k. **Motor pulley and idler pulley assemblies.** See *Figure 44* for motor and idler pulley removal.

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.

l. **Impeller and housing.**
(1.) Remove screws holding cover to housing. See *Figure 41*.
(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 45*.

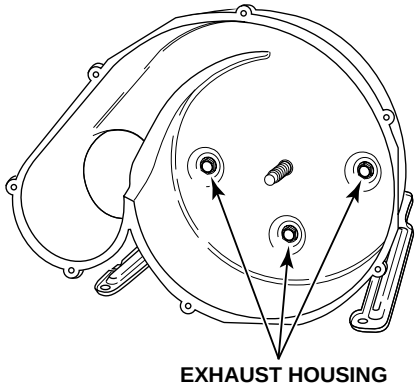


Figure 45

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

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 *Figure 46*.

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.

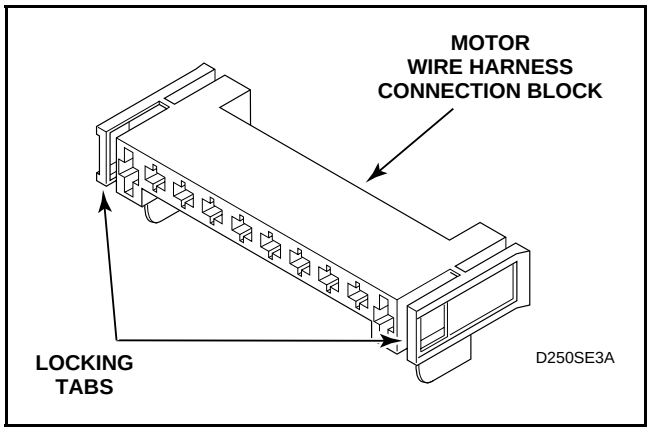


Figure 46

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, then lift motor out of mounting bracket. See *Figure 44*.

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

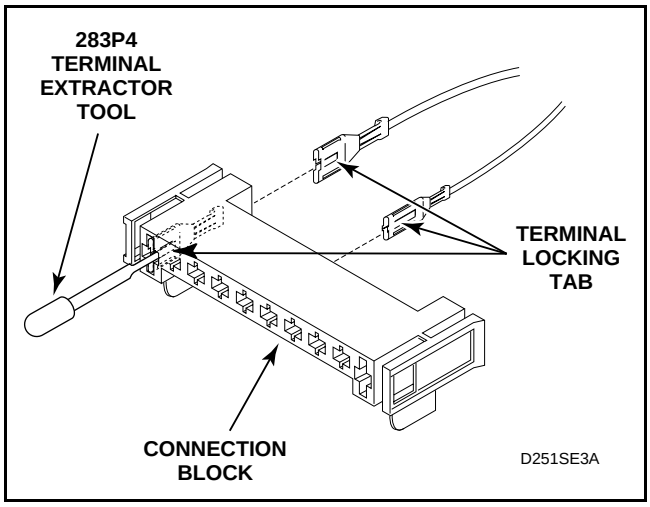


Figure 47

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 47*.

(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 47*.

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.

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

46. FRONT BULKHEAD ASSEMBLY

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 35*. 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 34*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

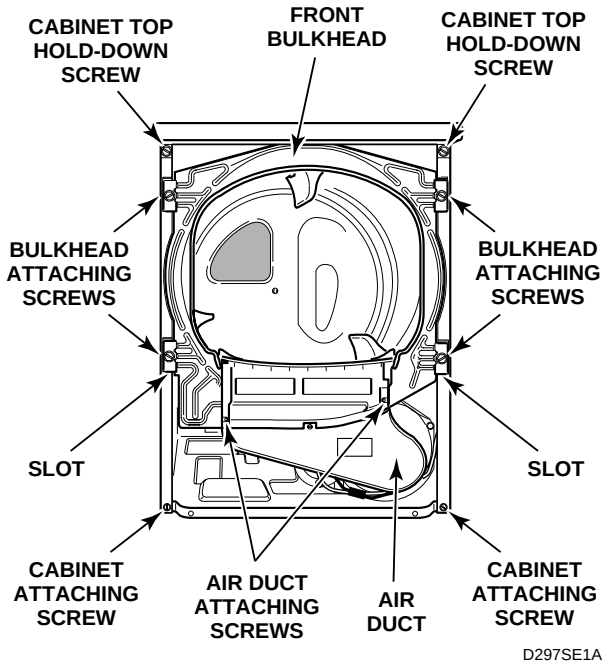


Figure 48

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 43*.

f. Remove four screws holding bulkhead to front flange of cabinet and lift complete bulkhead assembly out of slots in cabinet. See *Figure 48*.

g. Remove upper and lower air duct assembly.

IMPORTANT: When reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 41*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

h. **Cylinder Glides and Glide Bracket.** See *Figure 49*.

(1.) Unsnap glide from each glide bracket.

(2.) Drill out rivets holding glide bracket to front bulkhead.

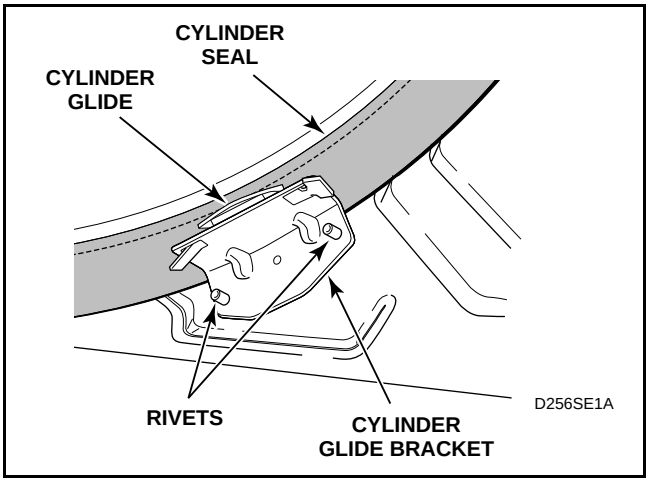


Figure 49

WARNING

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

W001R1

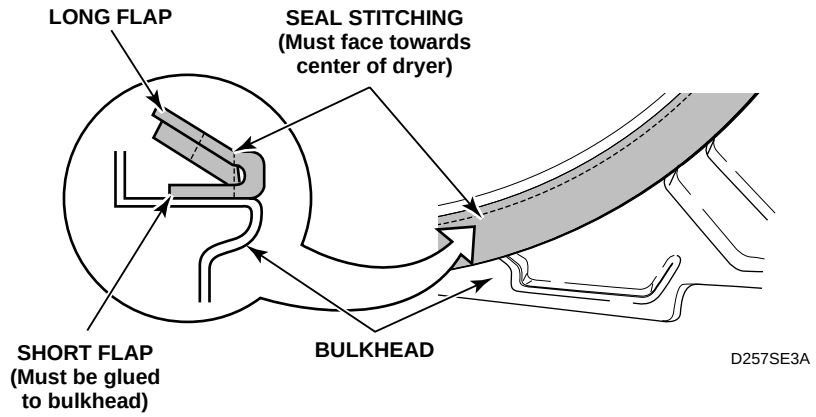


Figure 50

i. **Front Cylinder Seal** (*Figure 50*)
When installing the cylinder seal, it is important to remember these two important steps:
(1.) The stitching on the seal must face towards center of dryer.
(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 felt seal contacts the bulkhead.

WARNING

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

W001R1

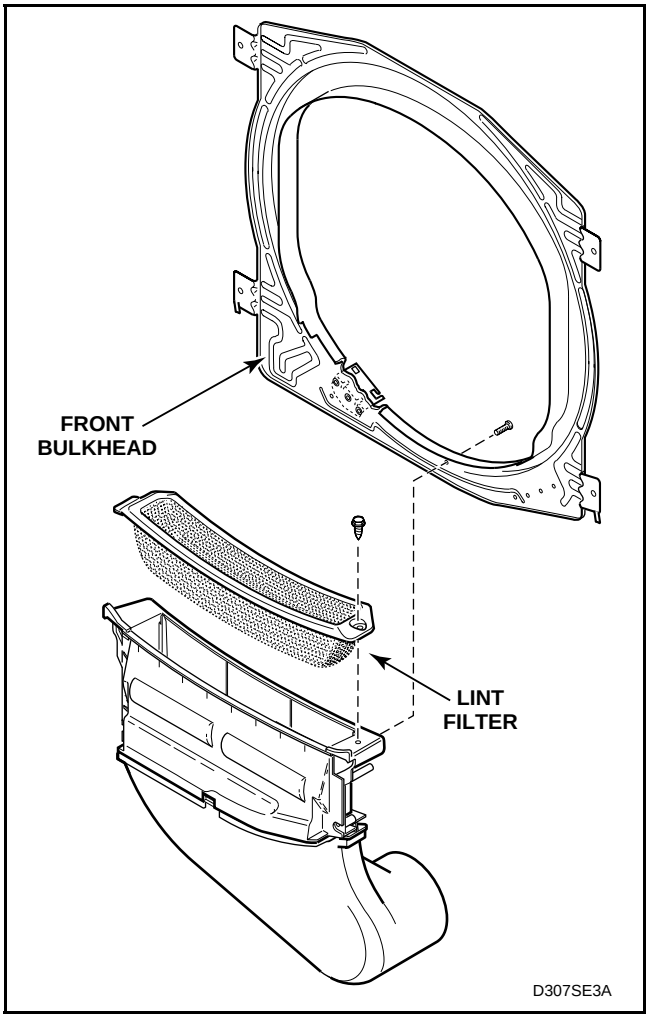


Figure 51

47. CYLINDER BELT

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 35*. 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 34*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. See *Figure 43*.

f. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet. See *Figure 48*.

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 41*. 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: 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 43*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder. See *Figure 52*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

WARNING

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

W001R1

48. CYLINDER ASSEMBLY

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 35*. 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 34*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. See *Figure 43*.

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 43*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder, with the ribbed surface of the belt against the cylinder. See *Figure 52*. 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 48*.

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 41*. 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 48*.

h. Carefully remove cylinder out through front of dryer.

i. Baffles – Remove screws holding baffles to cylinder. See *Figure 52*.

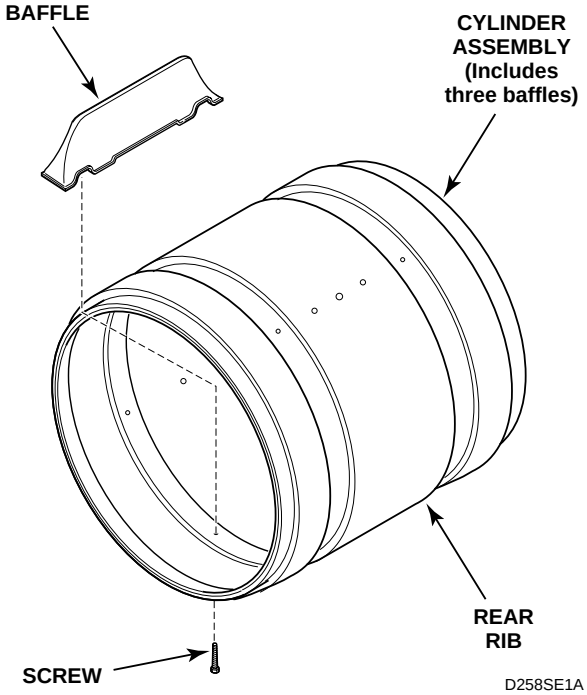


Figure 52

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

49. REAR SEAL

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 35*. 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 34*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Remove two cabinet top hold-down screws. See *Figure 48*.

f. Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets.

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

g. Disengage belt from motor and idler pulleys. See *Figure 44*.

NOTE: When reinstalling belt, be sure belt is properly installed on motor and idler pulleys and is on the correct side of the idler pulleys. See *Figure 43*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder with the ribbed surface of the belt against cylinder. See *Figure 52*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

h. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet. See *Figure 48*.

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 41*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

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

j. Pull rear cylinder seal from flanged edge of bulkhead. See *Figure 53*.

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

(1) The stitching on the seal must face towards the dryer center. See *Figure 50*.

(2) The short flap, shown in *Figure 50*, must be glued to the bulkhead and the long flap left loose.

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

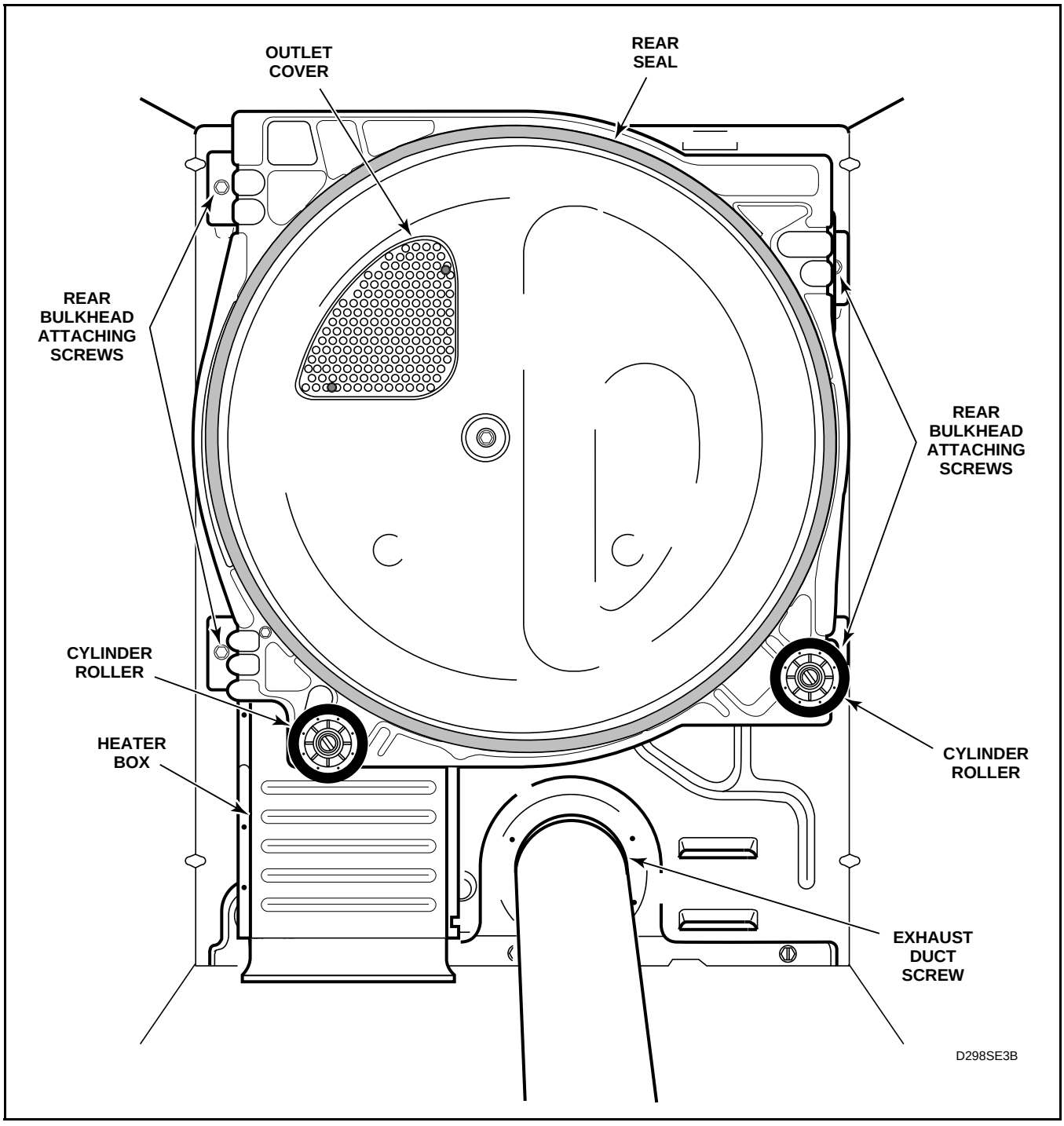

OUTLET COVER
REAR SEAL
REAR BULKHEAD ATTACHING SCREWS
REAR BULKHEAD ATTACHING SCREWS
CYLINDER ROLLER
HEATER BOX
CYLINDER ROLLER
EXHAUST DUCT SCREW
D298SE3B

Figure 53

WARNING

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

W001R1

50. CYLINDER ROLLERS

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel.See *Figure 7*.

c. Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 35*. 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 34*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. See *Figure 43*.

f. Remove four screws holding bulkhead to front flange of cabinet. Then lift complete bulkhead assembly out of slots in cabinet. See *Figure 48*.

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 41*. 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 54*.

h. See *Figure 54* 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.

51. OUTLET COVER

a. Open door and remove two screws holding outlet cover to rear bulkhead. See *Figure 53*.

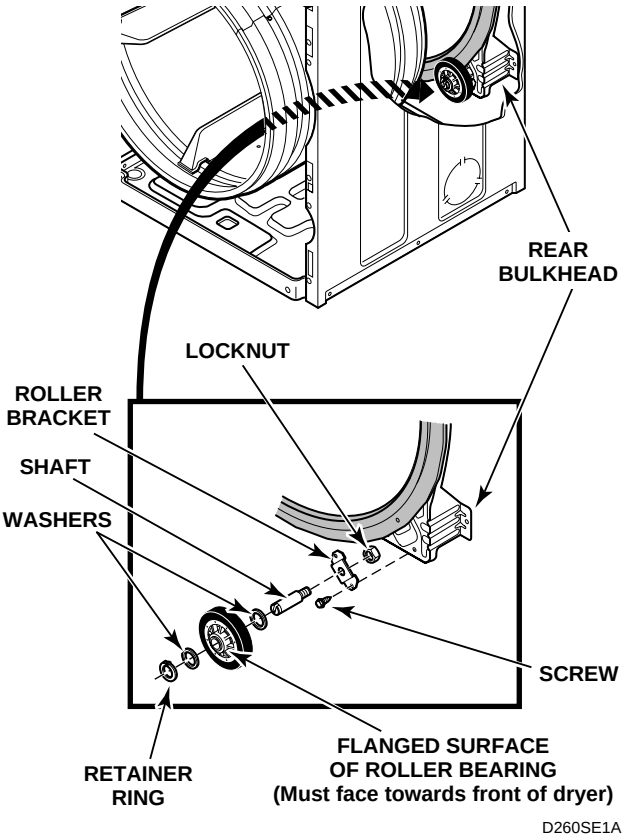


Figure 54

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. REAR BULKHEAD AND HEATER DUCT

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. *Figure 7*.

c. Remove two screws from bottom tabs on front panel. See *Figure 35*. 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 34*.

NOTE: Refer to wiring diagram when rewiring switch.

e. Disengage belt from motor and idler pulleys. See *Figure 43*.

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 43*. 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 48*.

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 41*. 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 48*.

h. Carefully remove cylinder out through front of dryer.

i. **Gas Models:**

(1.) **Silicon Carbide Ignition:** 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 37*.
Silicon Nitrate Ignition: Disconnect wire harness from igniter and sensor assembly, and from gas valve coils at disconnect blocks. See *Figure 38*.

(2.) Remove burner tube attaching screw from right side of burner housing, while holding burner tube in place. See *Figure 40*.

(3.) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. See *Figure 40*.

(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 40*.

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

(6.) Remove screw holding burner housing to heat shroud. See *Figures 37* or *38*.

(7.) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. See *Figure 40*.

(8.) Remove two screws holding shroud to heater duct, and remove shroud out through front of dryer. See *Figures 37* or *38*.

WARNING

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

W001R1

j. **Electric Models:**
   (1.) Remove two screws holding element and plate to heater box, then pull element down and away from heater box. See *Figure 40*.
   (2.) Remove all wires from terminal block.

NOTE: Refer to wiring diagram when rewiring terminal block.

   (3.) Remove screw holding terminal block and shield to rear bulkhead. See *Figure 56*.
   (4.) While supporting bulkhead, remove the four screws holding rear bulkhead to dryer cabinet, then lift complete assembly out of dryer. See *Figure 53*.
   (5.) Remove heater duct from rear bulkhead. See *Figure 55*.

k. To remove heater duct from rear bulkhead. See *Figure 55*.

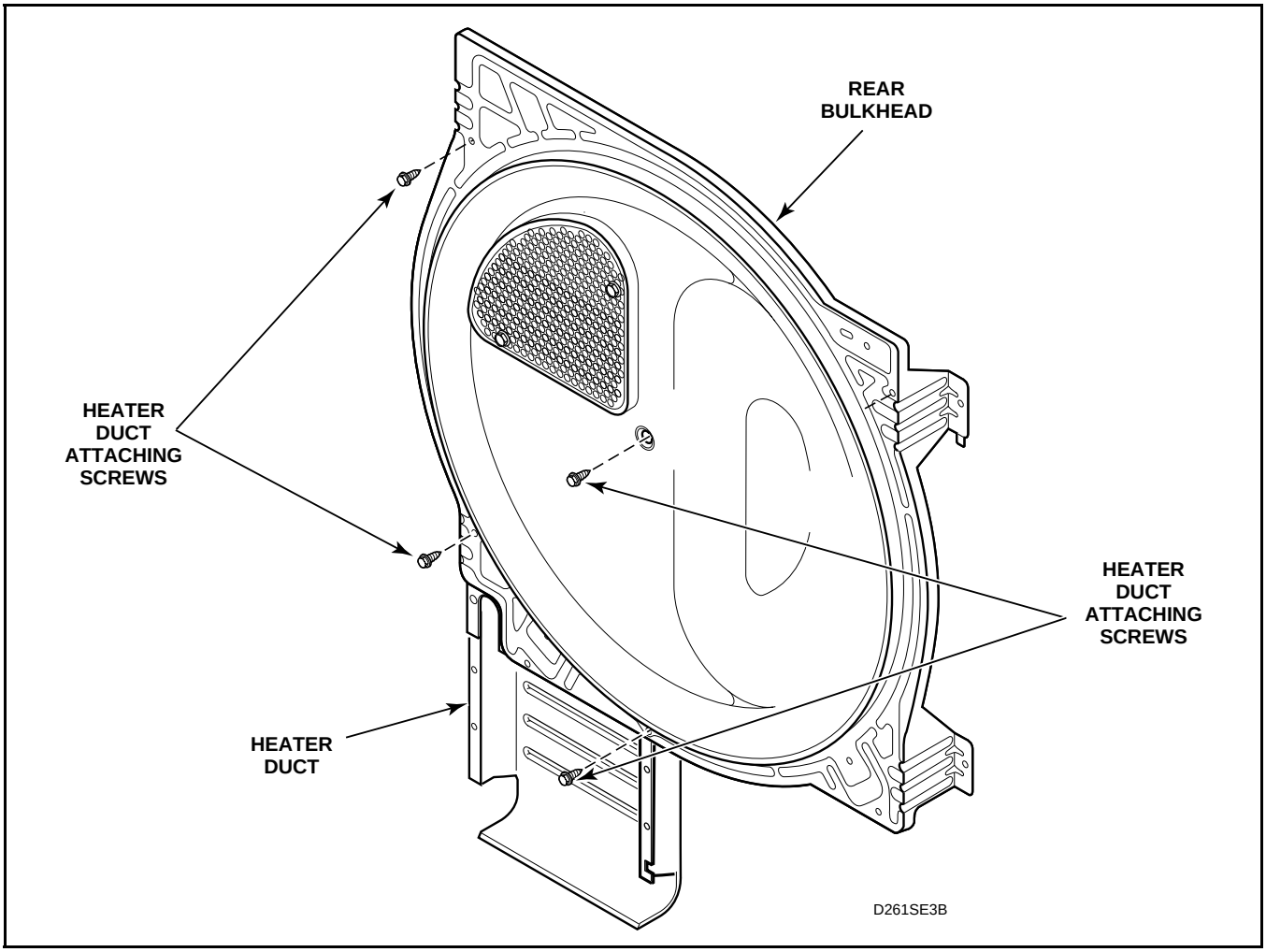


Figure 55

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

53. 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 7*.

(2.) Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

(3.) Remove two screws holding bottom tabs on front panel to dryer side panels. See *Figure 35*. 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 34*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

(5.) Remove two cabinet hold-down screws. See *Figure 29*.

(6.) Lift cabinet top to a vertical position by hinging it on the rear hold-down brackets. See *Figure 30*.

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 appropriate wiring diagram when rewiring terminal block.

(8.) Remove screw holding terminal block and shield to rear bulkhead. See *Figure 56*.

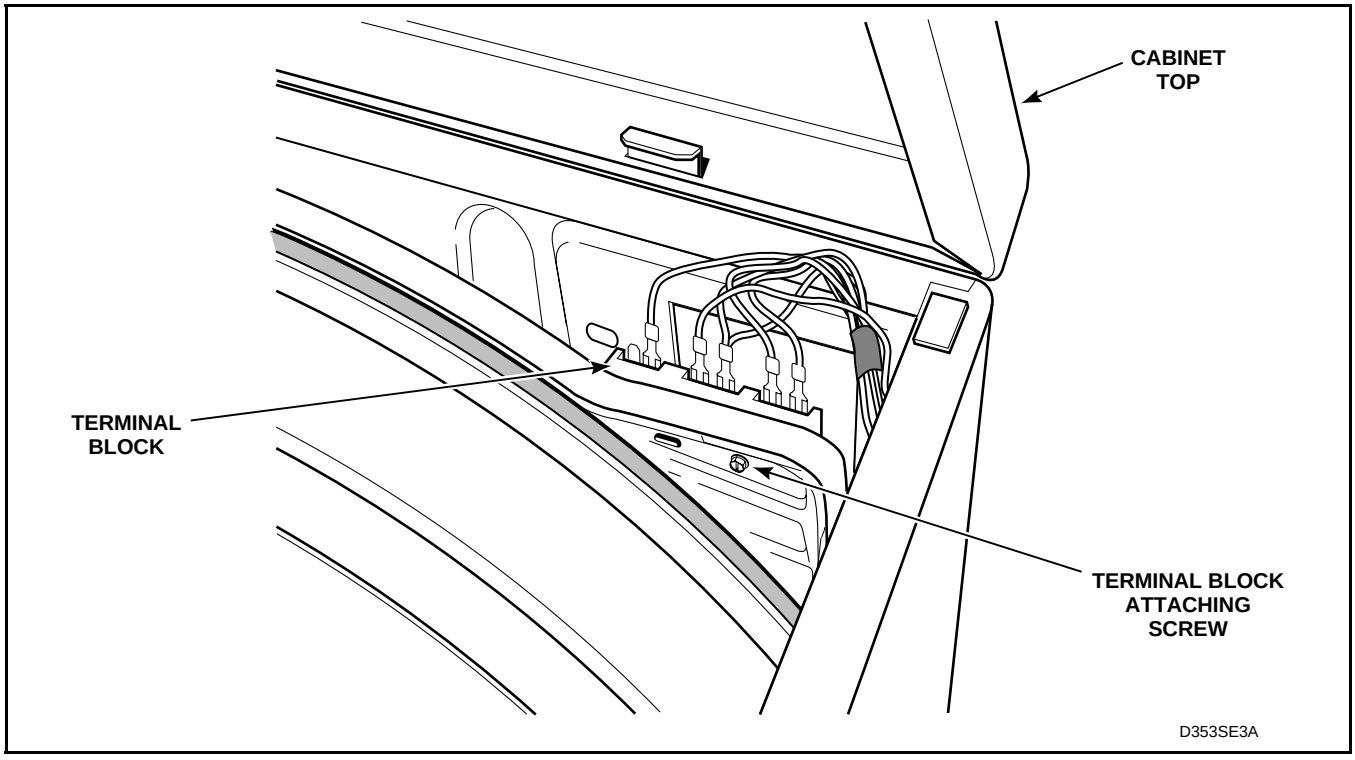


Figure 56

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

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 57*.

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.

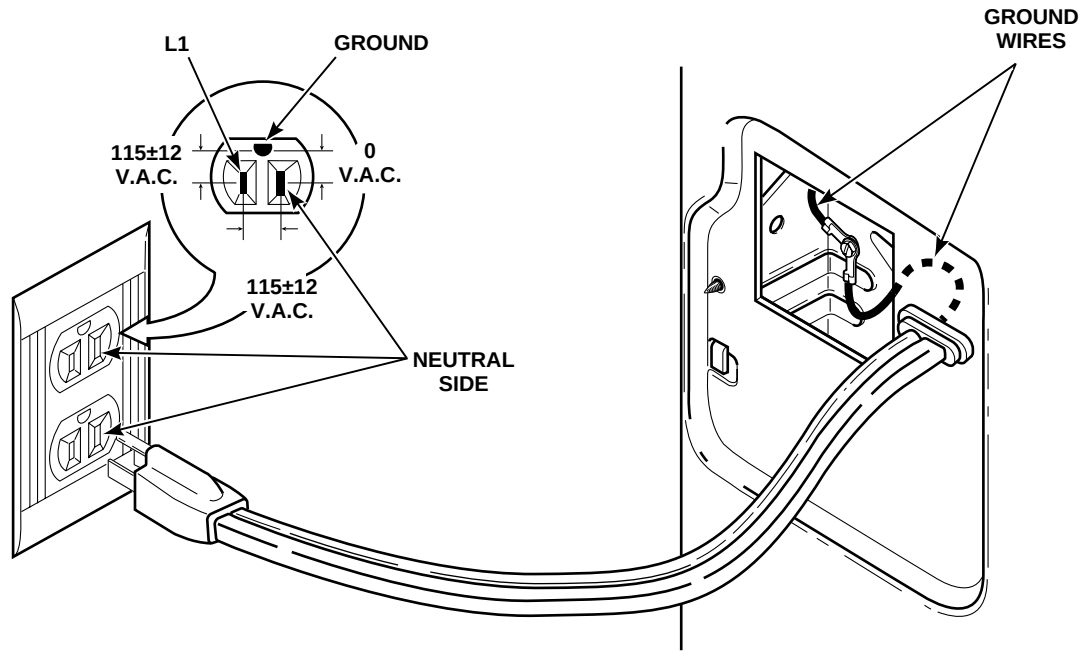


Figure 57

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

54. CABINET AND BASE

a. Unlock control panel. See *Figure 8A*.
b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B*.
c. Remove control panel from control cabinet. See *Figure 8C*.
d. Disconnect all wires to components. See *Figure 9*.
e. Remove ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. While supporting the access panel, remove two screws from bottom edge of each access panel. See *Figure 7*.
g. Gently lower each access panel to disengage panel locators from the bottom edge of front panel and remove access panel. See *Figure 7*.
h. Remove two screws holding bottom tabs on front panel to lower dryer cabinet. See *Figures 16* through *19*.
i. Swing bottom of front panel away from lower dryer to disengage hold-down clips and locators from control cabinet.
j. Disconnect wires from door switch. See *Figure 34*.

NOTE: Refer to appropriate wiring diagram when rewiring switch.

k. Remove two screws holding bottom tabs on control cabinet to front flange of lower dryer cabinet. See *Figures 16* through *19*.
l. Remove two screws and shoulder washers holding the upper dryer base to the top side of the control cabinet. See *Figures 16* through *19*.
m. Reach in through front opening of control cabinet and remove two screws (per side) holding the control cabinet front to the front flange of the control cabinet wrapper. See *Figures 16* through *19*.
n. METERED MODELS - Unlock and remove two coin drawers. Reach in through coin drawer opening and remove one screw (per side) holding control cabinet to control cabinet wrapper. See *Figure 17*.
o. Reach through control panel opening and remove two screws holding the control cabinet wrapper tabs to the control cabinet front tabs. See *Figures 16* through *19*.
p. Carefully pull control cabinet front straight out from between the upper and lower dryers. See *Figures 16* through *19*.
q. Remove two screws holding cabinet top to front flange of cabinet, and carefully lift cabinet top off dryer. See *Figure 29*.
r. Disengage belt from motor and idler pulleys. See *Figure 43*.

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 43*. Belt must be positioned around center section of cylinder approximately three inches ahead of rear rib on cylinder with the ribbed surface of the belt against the cylinder. See *Figure 52*. After installing belt, manually rotate cylinder counterclockwise to check that belt is properly aligned.

s. Remove four screws holding bulkhead to front flange of cabinet. Then, lift complete bulkhead assembly out of slots in cabinet. See *Figure 48*.

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

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 reassembling, be sure seal on exhaust fan cover makes airtight seal on flange of duct. See *Figure 41*. If the seal is installed improperly, the airflow through the exhaust system will be restricted which can adversely affect dryer performance.

t. While supporting cylinder, carefully remove belt, and remove cylinder out through front of dryer.

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 silicone carbide or nitrate 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.

u. **Gas Models with Silicon Carbide Ignition:**
   (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 40*.
   (2.) Remove screw from right side of burner housing holding burner tube in place. See *Figure 40*.
   (3.) Gently move burner tube toward rear of dryer to disengage tab from slot on left side of burner housing. See *Figure 40*.
   (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 40*.
   (6.) Remove screw holding burner housing to heat shroud. See *Figure 40*.
   (7.) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. See *Figure 40*.
   (8.) Remove four screws holding shroud to heater duct. Remove shroud out through front of dryer. See *Figure 40*.

v. **Gas Models with Silicon Nitrate Ignition:**
   (1.) Remove wire harness from ignition control.
   (2.) Remove screws holding ignition control to bracket. See *Figure 38*.
   (3.) Carefully remove ignition control.
   (4.) Remove wires from igniter and sensor assembly. See *Figure 39*.
   (5.) Remove screw holding burner tube to burner housing. See *Figure 40*.
   (6.) Remove screw holding burner housing to heat shroud. See *Figure 38*.
   (7.) Remove screw holding front of burner housing to dryer base and remove housing out through front of dryer. See *Figure 40*.
   (8.) Remove four screws holding shroud to heater duct. Remove shroud out through front of dryer. See *Figure 38*.

w. **Electric Models:**
   (1.) Remove two screws holding element and plate to heater duct, then pull element down and away from heater duct. See *Figure 40*.
   (2.) While supporting bulkhead, remove screws holding bulkhead to rear of dryer cabinet, and remove assembly out of dryer. See *Figure 53*.
   (3.) Remove screw holding exhaust duct to dryer cabinet and pull duct out of cabinet. See *Figure 53*.
   (4.) Remove two screws from each rear cabinet top hold-down bracket. See *Figure 48*.
   (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 48*.

x. Remove leveling legs from base.

Section 6
Adjustments

WARNING

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

W001R1

55. LEVELING LEGS (*Figure 58*)

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.

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.

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

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.

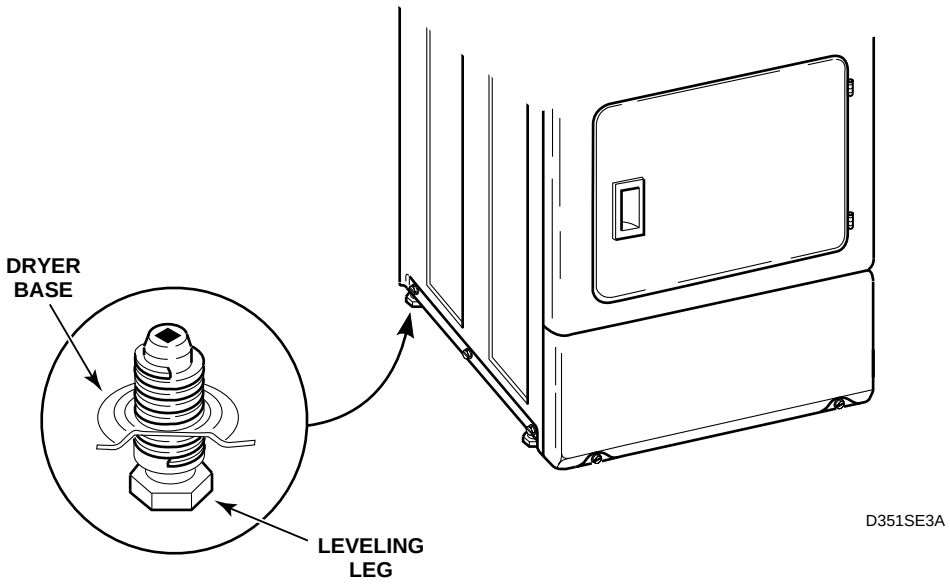


Figure 58

WARNING

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

W001R1

56. BURNER FLAME (Gas Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

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 *Figures 59* or *60*.

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 *Figures 59* or *60*.

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.

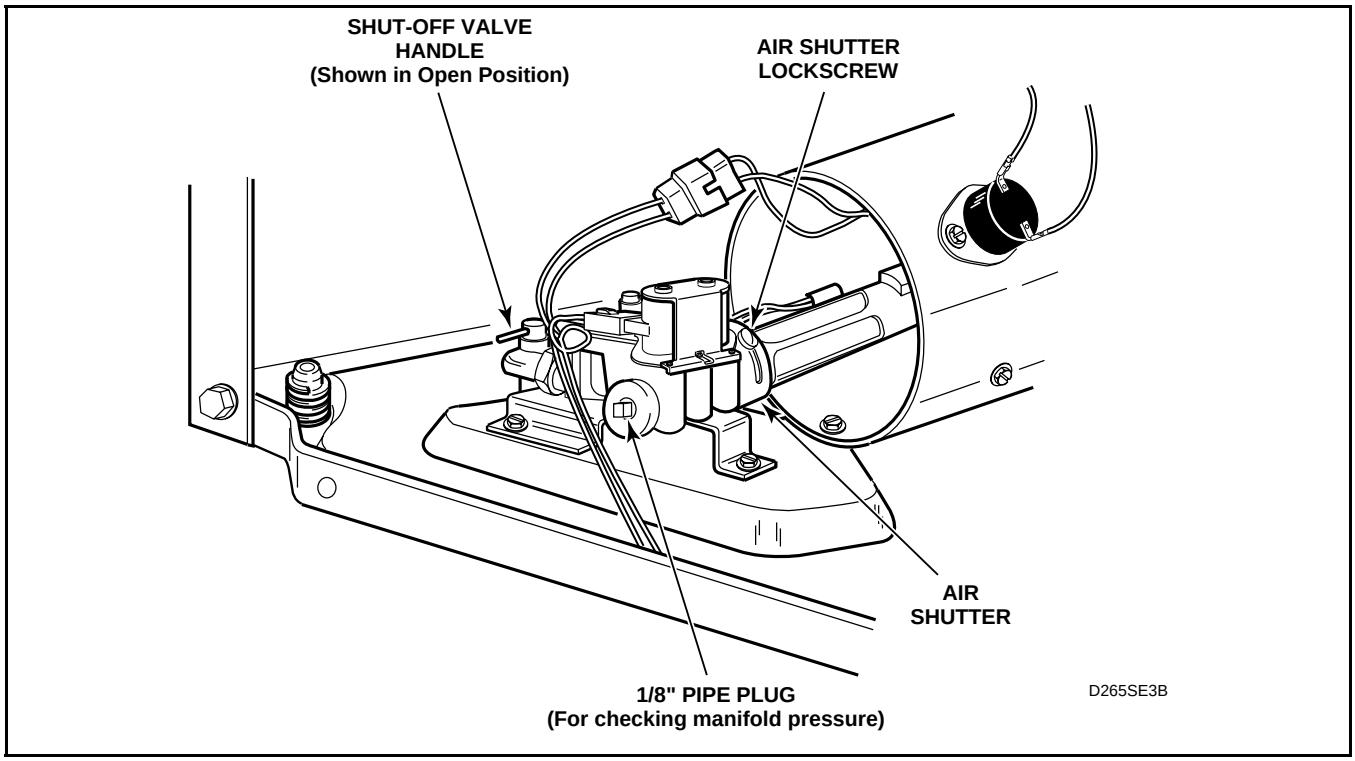


Figure 59

SILICON CARBIDE IGNITION SYSTEM

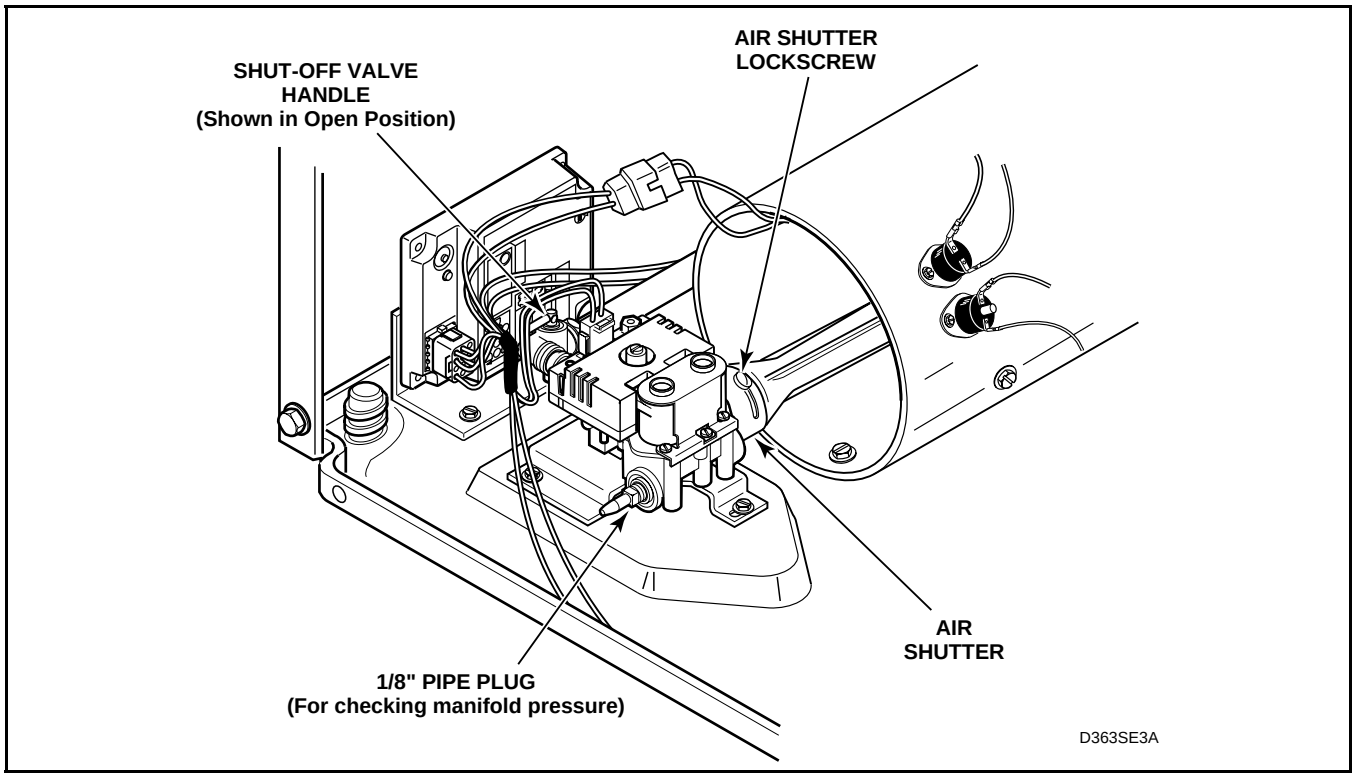


Figure 60

SILICON NITRATE IGNITION SYSTEM

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 multi-meter or any other electrical testing equipment with which the service person is familiar.

57. DRIVE MOTOR
(*Figure 61*)

a. Remove motor and exhaust assembly. See *Paragraph 45*.

b. Disconnect motor wire harness at motor disconnect block.

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

NOTE: Drive Motor Resistance
120 Volt 2,460 – 3,100 Ohms

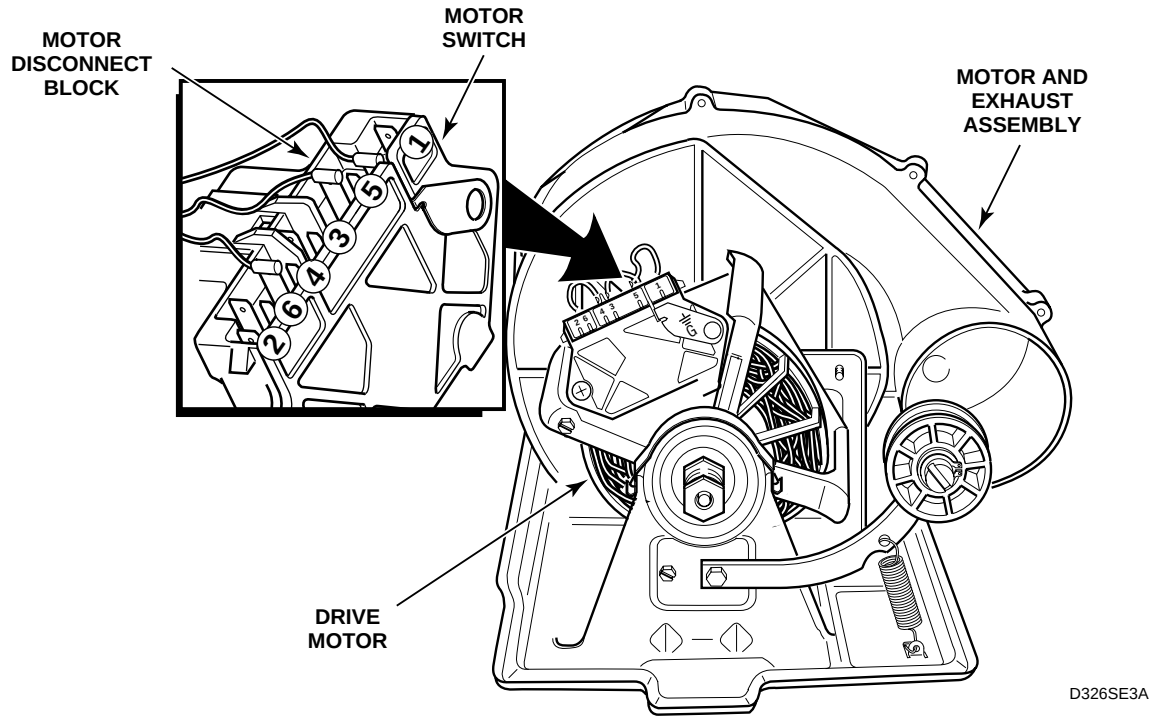


Figure 61

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

c. **Motor Switch** (Refer to SECTION 8 for Internal Wiring of the Dryer Motor Switch.)

WARNING

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

W260

Unplug the motor wire harness from the motor connection block before starting this test.

Start Terminals

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

A. Continuity exists between switch terminal 5 and black wire. **NO**

YES

B. Manually depress actuator. Continuity broken between switch terminal 5 and black wire. **NO** → Inoperative motor switch. Replace switch.

YES

Run Terminals

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

C. Continuity broken between switch terminal 6 and yellow wire. **NO**

YES

D. Manually depress actuator. Continuity exists between switch terminal 6 and yellow wire. **NO** → Inoperative motor switch. Replace switch.

YES

Heater Circuit Terminals

E. Continuity broken between switch terminal 1 and switch terminal 2. **NO**

YES

F. Manually depress actuator. Continuity exists between switch terminal 1 and switch terminal 2. **NO** → Inoperative motor switch. Replace switch.

YES

Motor switch checks O.K.

WARNING

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

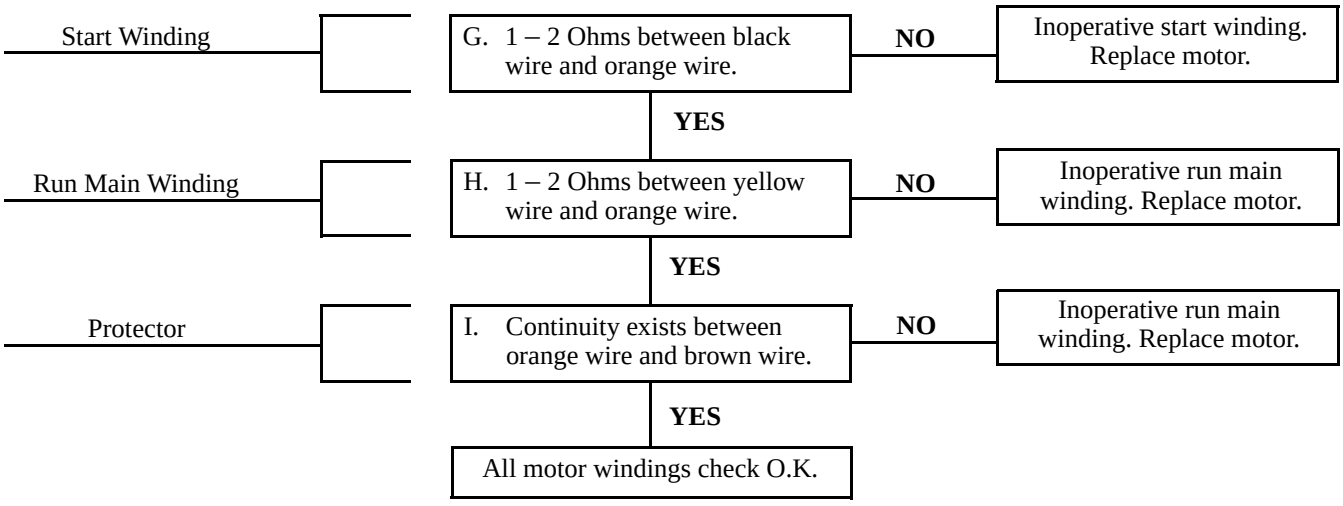
W001R1

d. **Motor Windings** (Refer to SECTION 8 for Internal Wiring of the Dryer Motor Switch.)

WARNING

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

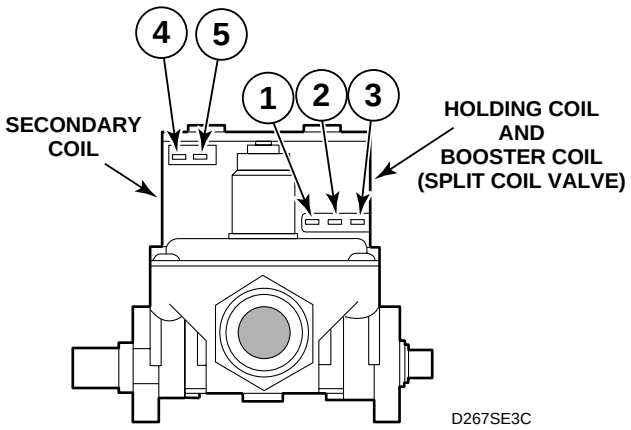
W260



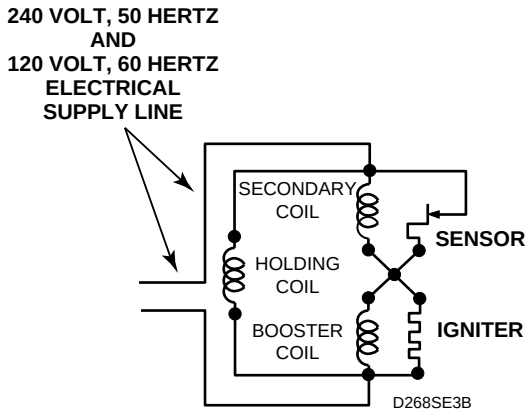
WARNING

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



GAS VALVE FOR SILICON CARBIDE IGNITION



WIRING SCHEMATIC

Figure 62

58. BURNER SYSTEM OPERATION – SILICON CARBIDE IGNITION (*Figure 62*)

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.

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

59. 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 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Close main gas shut-off valve.

d. Remove valve wire harness disconnect block from the holding and booster coil. See *Figure 62*.

e. Plug dryer power cord into wall receptacle, and start the dryer in a heat setting (refer to the Operating Instructions supplied with dryer).

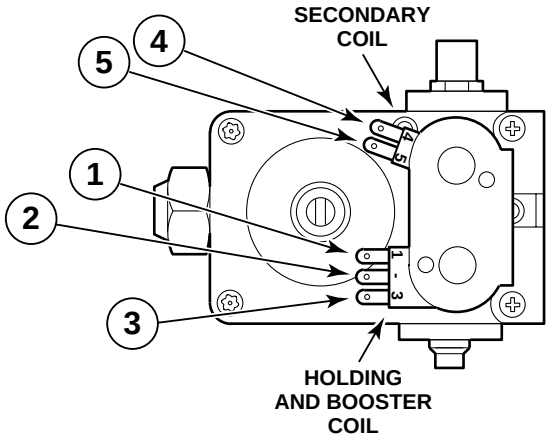
f. Set test meter to read AC voltage and apply meter probes into terminals on the dryer harness plug that would correspond to terminals 1 and 2 on the coil. See *Figure 62*. Meter should register line voltage in all Fabric settings, except FLUFF which should read “zero” VAC.

g. If meter does not read line voltage in step “f”, check motor switch, thermostats, fabric switch, or timer.

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



GAS VALVE FOR SILICON CARBIDE IGNITION

D270SE3A

Figure 63

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

60. GAS VALVE COILS CHECK – SILICON CARBIDE IGNITION

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Close main gas shut-off valve.

d. Remove disconnect blocks from gas valve coils.

e. Set test meter to read Ohms and put meter probes to terminals as in *Figure 63*, and in the following chart.

COIL TOLERANCE READINGS

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

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

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

61. SENSOR CHECK – SILICON CARBIDE IGNITION

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.
c. Close main gas shut-off valve.
d. Remove wires from sensor terminals. See *Figure 37*.
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.

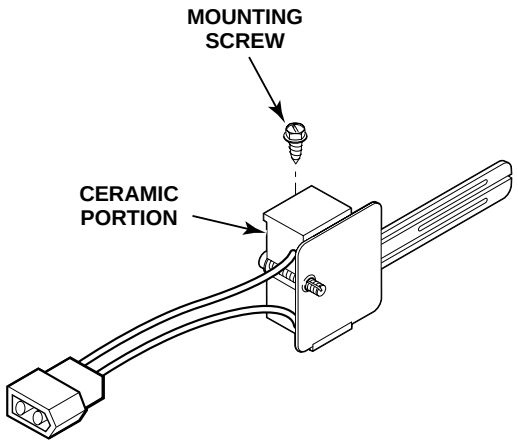
62. IGNITER CHECK – SILICON CARBIDE IGNITION

Gas dryers are manufactured with an igniter.

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.
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 64*.

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.



SILICON CARBIDE IGNITER AND BRACKET ASSEMBLY

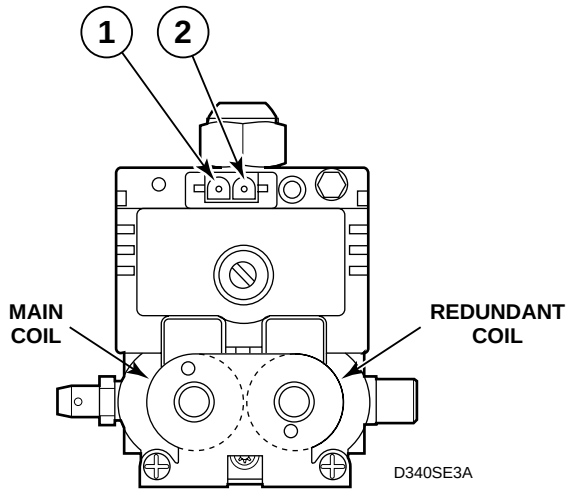
D271SE3B

Figure 64

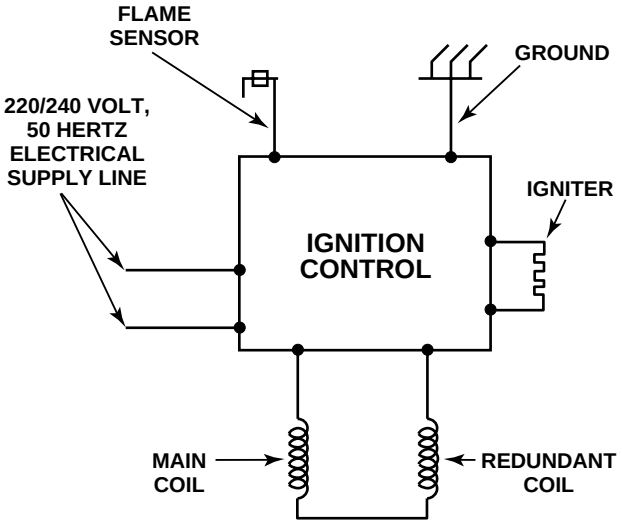
WARNING

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



GAS VALVE FOR SILICON NITRATE IGNITION



WIRING SCHEMATIC

D332SE3A

Figure 65

63. BURNER SYSTEM OPERATION – SILICON NITRATE IGNITION (*Figure 65*)

a. **Components**

The burner has four basic components: a glow bar igniter, burner tube, flame sensor, and a two-stage gas valve consisting of a main valve and a redundant coil valve.

b. **Pre-ignition Circuits**

When the dryer thermostat calls for heat, circuits are completed through the main and redundant coil, flame sensor, and igniter.

c. **Burner Circuit**

In approximately 30 seconds, the igniter attains ignition temperature and ignition is made. The flame sensor circuit is completed through the burner flame to the ignition control board.

d. **Ignition Failure**

If ignition failure occurs, the ignition control will reset to its pre-ignition state within approximately 45 seconds. After four failed attempts at ignition, the ignition control will lock-out the igniter. Refer to *Paragraph 15* for ignition control flashes.

WARNING

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

W001R1

64. ELECTRICAL CIRCUIT TO IGNITION SYSTEM – SILICON NITRATE IGNITION

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Close main gas shut-off valve.

d. Remove valve wire harness disconnect block from the gas valve. See *Figure 65*.

e. Put 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 65*. 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.

WARNING

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

W001R1

WARNING

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

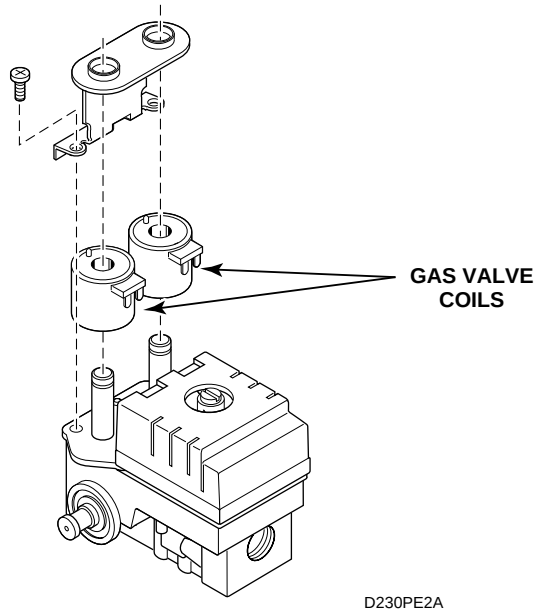


Figure 66

65. GAS VALVE COILS CHECK – SILICON NITRATE IGNITION

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.
c. Close main gas shut-off valve.
d. Remove disconnect blocks from gas valve coils.
e. Set test meter to read Ohms.
f. Both coils should read between 2400 and 2800 Ohms.

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

66. FLAME SENSOR CHECK – SILICON NITRATE IGNITION

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.
c. Disconnect flame sensor wire at disconnect block.
d. Set test meter to read Ohms.
e. Put first meter probe on terminal of flame sensor wire and second meter probe on terminal 2 of disconnect block. See *Figure 67*.
f. If the meter does not show any reading (infinite Ohms), there is no continuity. If there is no continuity, replace igniter and sensor assembly.

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

WARNING

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

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67. IGNITER CHECK – SILICON NITRATE IGNITION

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

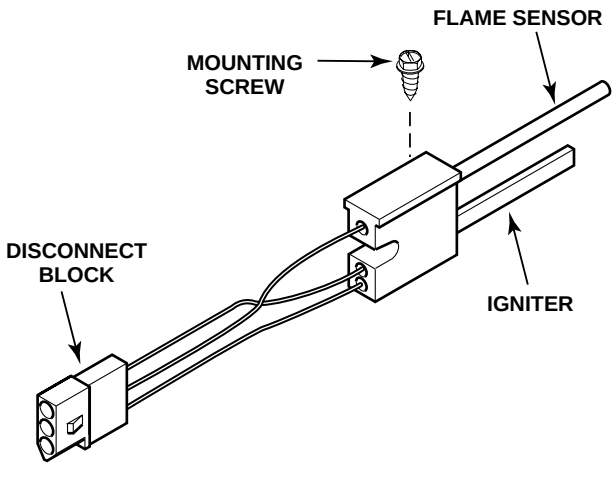
b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Disconnect igniter wires at disconnect block.

d. Set test meter to read Ohms and put meter probes on terminals 1 and 3 of igniter disconnect block. See *Figure 67*.

e. Silicon Nitrate Igniter – meter should read between 49-88 Ohms. If meter does not read appropriate Ohms, replace igniter and sensor assembly.

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



SILICON NITRATE IGNITER AND SENSOR ASSEMBLY

D331SE3A

Figure 67

68. IGNITION CONTROL – SILICON NITRATE IGNITION

Grounding Check:

(1.) Set test meter to read Ohms and put meter probes on the ground wire connection in 12-pin block (connected to module) and on the green ground screw in base of dryer. See *Figure 5*.

(2.) Meter should read “zero” Ohms. If meter registers an Ohm reading of any amount, check ground wire connection and replace as necessary.

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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69. THERMAL FUSE (Electric Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Label and disconnect wires from thermal fuse. See *Figure 40*.

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.

70. HEATER ASSEMBLY (Electric Models)

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Disconnect wires from heater assembly. See *Figure 40*.

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 40*.

Element Color Code	Voltage/Hz.	Resistance Reading
Red	240 V 60 Hz.	10.39 ± .31 Ohms Cold
White	208 V 60 Hz.	8.2 ± .5 Ohms Cold
Green	240 V 50 Hz.	10.75 ± .32 Ohms Cold
Yellow	240 V 50 Hz.	13.03 ± .39 Ohms Cold
Blue	240 V 50 Hz.	16.7 ± .5 Ohms Cold

71. CYCLING OR LIMIT THERMOSTAT

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.

b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.

c. Label and disconnect wires from thermostat. See *Figures 40* or *41*.

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”.

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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72. FABRIC SELECTOR SWITCH

a. Unlock control panel. See *Figure 8A.*
b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B.*
c. Remove control panel from control cabinet. See *Figure 8C.*
d. Disconnect wires from fabric selector switch.

NOTE: Refer to wiring diagram when reconnecting wires.

e. Set test meter to read Ohms and apply meter probes to switch terminals.

FABRIC SELECTOR SWITCH – 4 Position		
	L1-1	L1-2
Fluff	–	–
Delicate	X	X
Perm. Press	–	X
Normal	–	X
X indicates closed		

73. TIMER CONTACTS (Nonmetered Models) (*Figure 68*)

a. Unlock control panel. See *Figure 8A.*
b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B.*
c. Remove control panel from control cabinet. See *Figure 8C.*
d. Disconnect wires from timer, except timer motor wires.

NOTE: Refer to appropriate wiring diagram when rewiring timer.

e. While supporting timer, remove screws holding timer to control cabinet. See *Figure 10.*
f. Pull timer out through control panel opening as far as wires will permit.
g. Manually rotate timer out of "OFF" position and into cycle.
h. Set test motor to read Ohms. The following readings should be found:
   (1.) Motor circuit test – L1 and M = "zero" Ohms (closed)
   (2.) Heat circuit test – L1 and H = "zero" Ohms (closed)
   (3.) Timer motor test – L1 and N = approximately 1100 Ohms or apply live power to timer motor terminals and motor should run.

NOTE: Timer Motor Resistance
120 Volt, 60 Hz2,460 – 3,100 Ohms

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

NOTE: Timer motor power is supplied through M terminal.

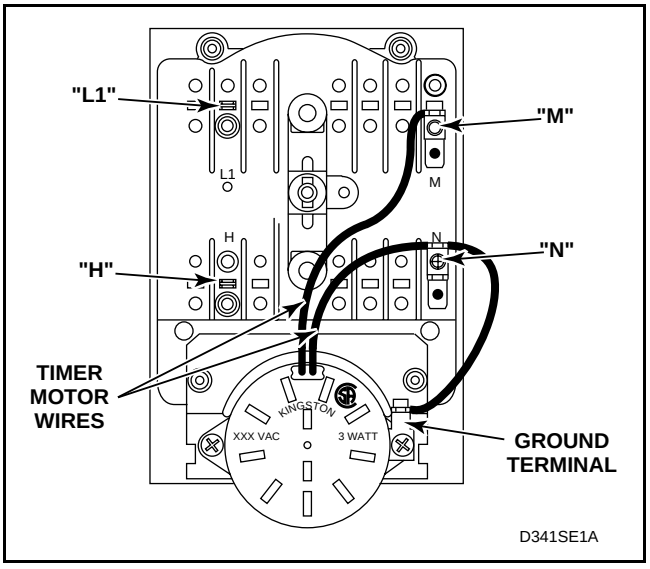

Figure 68

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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74. ACCUMULATOR (Metered Models)

a. Unlock control panel. See *Figure 8A*.
b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B*.
c. Remove control panel from control cabinet. See *Figure 5C*.
d. Disconnect all wires to components. See *Figure 9*.
e. Remove ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. Reach in through control panel opening and remove screws holding accumulator and mounting bracket to the control cabinet. See *Figure 20*.
g. Pull accumulator out of control cabinet as far as wires will permit.
h. Disconnect wires from one side of each switch.

NOTE: Refer to appropriate wiring diagram when rewiring switches.

i. Manually advance timing cam to disengage cam from ratchet wheel.
j. Set meter to read Ohms and apply leads on terminals of each switch. You should read the following:
Switch A – "zero" Ohms (closed)
Switch B – "zero" Ohms (closed)
Switch C (if present) – "infinite" (open)
k. Manually advance timing cam until it engages with ratchet wheel and the first "click" is heard. Switch B should now read "infinite" (open).
l. Continue to rotate timing cam until second "click" is heard. Switch B should remain open. Switch A should read "infinite" (open) and Switch C (if present) should read "zero" Ohms (closed).

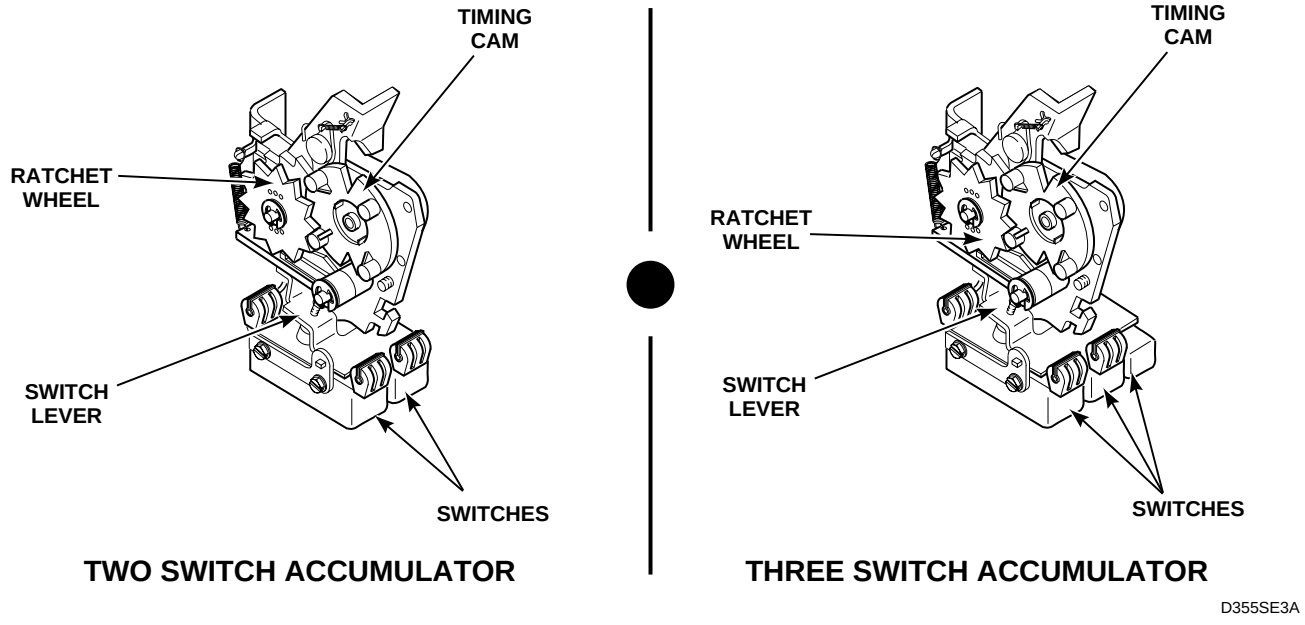

Figure 69

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

75. DOOR SWITCH

a. While supporting the access panel, remove two screws from bottom edge of access panel. See *Figure 7*.
b. Gently lower the access panel to disengage locators from bottom edge of front panel. See *Figure 7*.
c. Disconnect wires from door switch. See *Figure 34*.

NOTE: Refer to appropriate model wiring diagram when rewiring door 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 “infinite”.
f. Open door. Meter should read “infinite” between 1 and 3 and “zero” between 1 and 2.

76. PUSH-TO-START SWITCH

a. Unlock control panel. See *Figure 8A*.
b. Pull top of control panel away from control cabinet and lift up. See *Figure 8B*.
c. Remove control panel from control cabinet. See *Figure 8C*.
d. Disconnect all wires to components. See *Figure 9*.
e. Remove ground clip holding ground wire to control panel. See *Figure 9*.

NOTE: Refer to appropriate wiring diagram when reconnecting wires.

f. Unplug dryer from electrical supply and disconnect wires from switch terminals.
g. Set Volt-Ohm meter on OHMS scale and calibrate at appropriate scale.
h. Place meter probes on switch terminals. You should see an “infinite” reading on the meter.
i. With probes attached to switch, press the start switch button. Meter should read “0” Ohms.

Section 8
Internal Wiring of Dryer Motor Switch

WARNING

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

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

W001R1

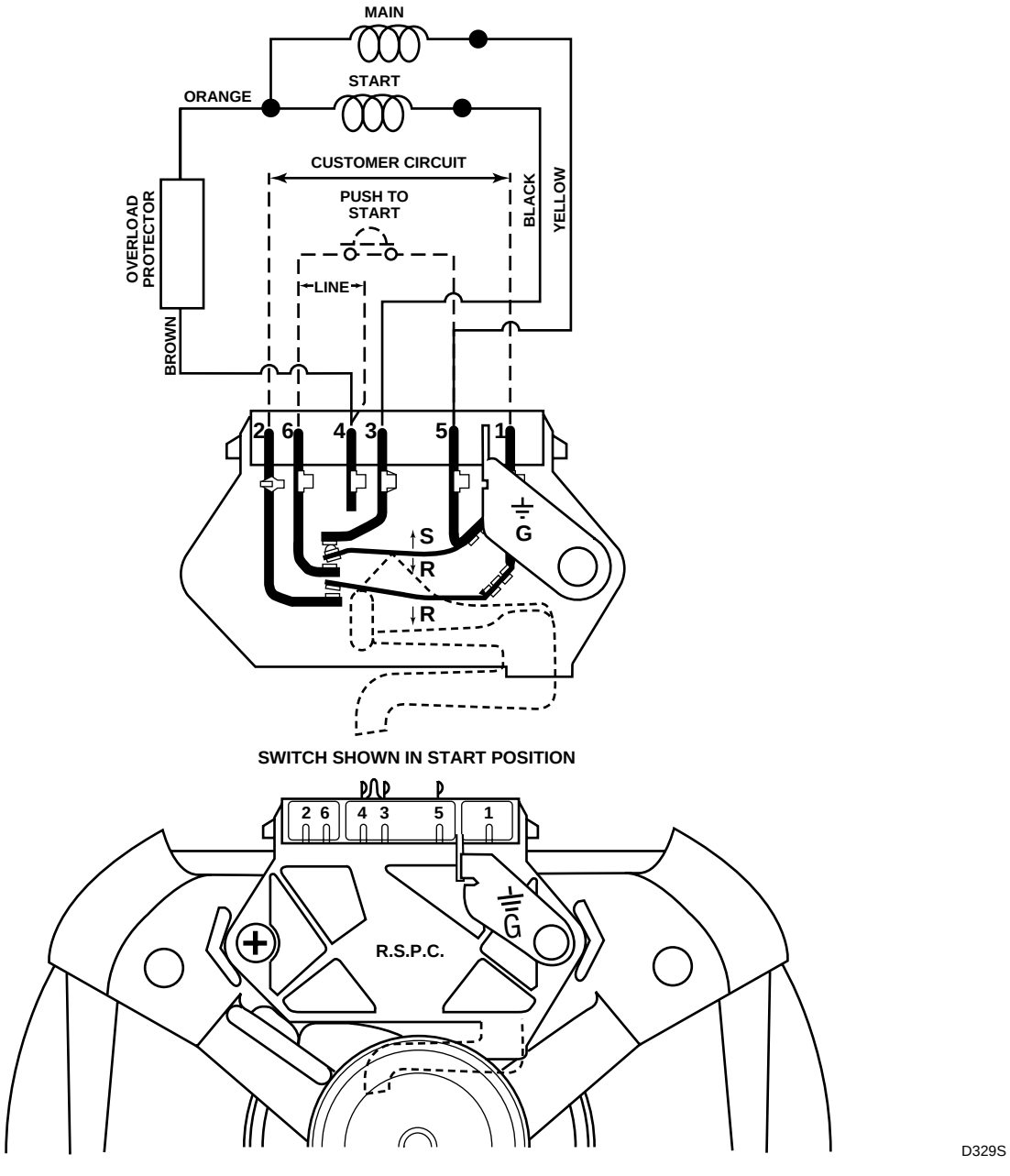

Figure 70