Commercial Dryers

Troubleshooting

Original Instructions

Keep These Instructions for Future Reference.

CAUTION: Read the instructions before using the machine.

(If this machine changes ownership, this manual must accompany machine.)

Alliance™ Laundry Systems

www.alliancelaundry.com

Part No. D515519R7
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Safety Information

Precautionary statements (“DANGER,” “WARNING,” and “CAUTION”), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

DANGER

Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

WARNING

Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

CAUTION

Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

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 unless you understand and have the skills to carry out the servicing.**
- **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.**

W006R2

WARNING

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

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

W001R1

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WARNING

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

- **Disconnect all electric power to the machine and accessories before servicing.**
- **Close gas shut-off valve to gas dryer before servicing.**
- **Never start machine with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the machine is properly grounded.**
- **Washer motor not grounded! Disconnect electric power before servicing motor.**

W502

WARNING

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

W007

CAUTION

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

W008

WARNING



Models with electronic control:

- INGESTION HAZARD: **This product contains a non-replaceable button cell or coin battery.**
  - **Battery Type: CR-2450/VAN, CR-2354/VCN, CR2032**
  - **Nominal voltage: 3V**
- DEATH **or serious injury can occur if ingested.**
- **A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours.**
- **KEEP new and used batteries OUT OF REACH of CHILDREN.**
- **Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.**

W1076

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 machine.

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

Locating an Authorized Service Person

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.

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Introduction

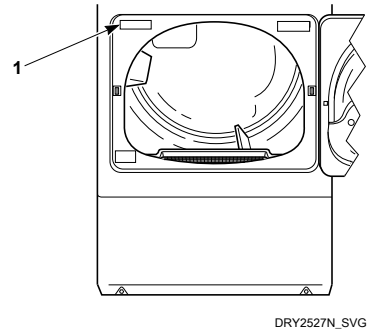
Customer Service

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3121 for the name and address of the nearest authorized parts distributor.

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

Serial Plate Location

When calling or writing about your product, be sure to mention model and serial numbers. Model and serial numbers are located on Serial Plate as shown.



1. Serial Plate

Figure 1

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Model Identification

Information in this manual is applicable to these washer models:

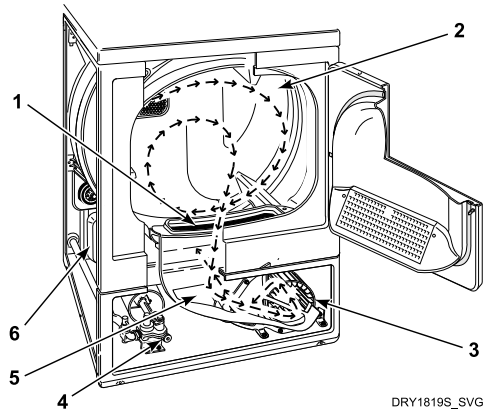
BTEBXASP437AW01	NT3JGASP407UG01	STENXASP547MW01
BTGBXASP307AW01	NT3JGASP407UW01	STENXASP547RW01
FTEE5ASP309NW10	NT3JXASP407UG01	STENXFSP178TW01
FTGE5ASP309NW10	NT3JXASP407UN01	STENYASP178TW01
HTEBCASP178TW01	NTENXASP307BW01	STENYFSP177TW01
HTEBXASP137FW01	NTLBXASP307NW26	STENYFSP178TW01
HTEBYASP288CW01	NTLNGASP547NW23	STEWXAJP547DW01
HTENXASP288CW01	NTLWXASP307LN01	STEWYAJP307NW22
HTENXFSP288CW01	PTEE3FSP439AG01	STGBXASP117FW01
HTENYASP288CW01	PTEJXASP437AG01	STGBXASP307NW22
HTENYFSP288CW01	PTGJXASP307AG01	STGNCASP118TW01
HTGBCASP118TW01	PTHE9ASP459NG29	STGNCFSP117TW01
HTGBYASP118TW01	PTLJXASP547NG23	STGNCFSP118TW01
HTGNXASP098CW01	ST1JXASP407EG01	STGNXASP118TW01
HTGNXFSP098CW01	ST2JGASP407UN01	STGNXASP127MW01
HTGNYASP098CW01	ST2JXASP407EG01	STGNXASP307AW12
HTGNYFSP098CW01	ST2JXASP407UG01	STGNXASP547DW01
JT1JGASP417EW06	ST2JXASP407UN01	STGNYASP118TW01
JT2JGASP417EW06	ST3JGAJP407UG43	STGNYFSP117TW01
LTEE5ASP139MW01	ST3JGASP407NG22	STGNYFSP118TW01
LTEE5ASP179TW01	ST3JGASP407UG01	STGWXAJP547DW01
LTEE5ASP309WW01	ST3JXASP407UG01	STGWYAJP307NN22
LTEE5ASP309ZW01	ST3JXASP407UN01	STHJYASP547NW01
LTEE5ASP439AW12	STEBXASP137FW01	STLNXASP547NW23
LTEE5ASP549NW01	STEBXASP307NW22	STMNXASG117JW01
LTEE5FSP179TW01	STEBXASP437AW12	UTEE5ASP179TW01
LTGE5ASP119FW01	STENCASP178TW01	UTEE5ASP289CW01
LTGE5ASP119TW01	STENCFSP177TW01	UTGE5ASP119TW01
LTGE5ASP129MW01	STENCFSP178TW01	YTEE5ASP139FW01
LTGE5ASP309AW12	STENXASP178TW01	YTEE5ASP179TW01
LTGE5FSP119TW01	STENXASP307BW01	YTEE5ASP289CW01

continues...

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NT2JGASP407UG01	STENXASP437AN12	YTGE5ASP099CW01
NT2JXASP407UG01	STENXASP437AW12	YTGE5ASP119FW01
NT2JXASP407UN01	STENXASP437LN01	YTGE5ASP119TW01
NT3JGAJP407UG43	STENXASP547DN01	
NT3JGASP407NG22	STENXASP547DW01	

How Your Dryer Works



1. Lint Filter
2. Cylinder
3. Exhaust Fan
4. Gas Valve
5. Air Duct
6. Heater Duct

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.

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Dryer Troubleshooting

WARNING

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

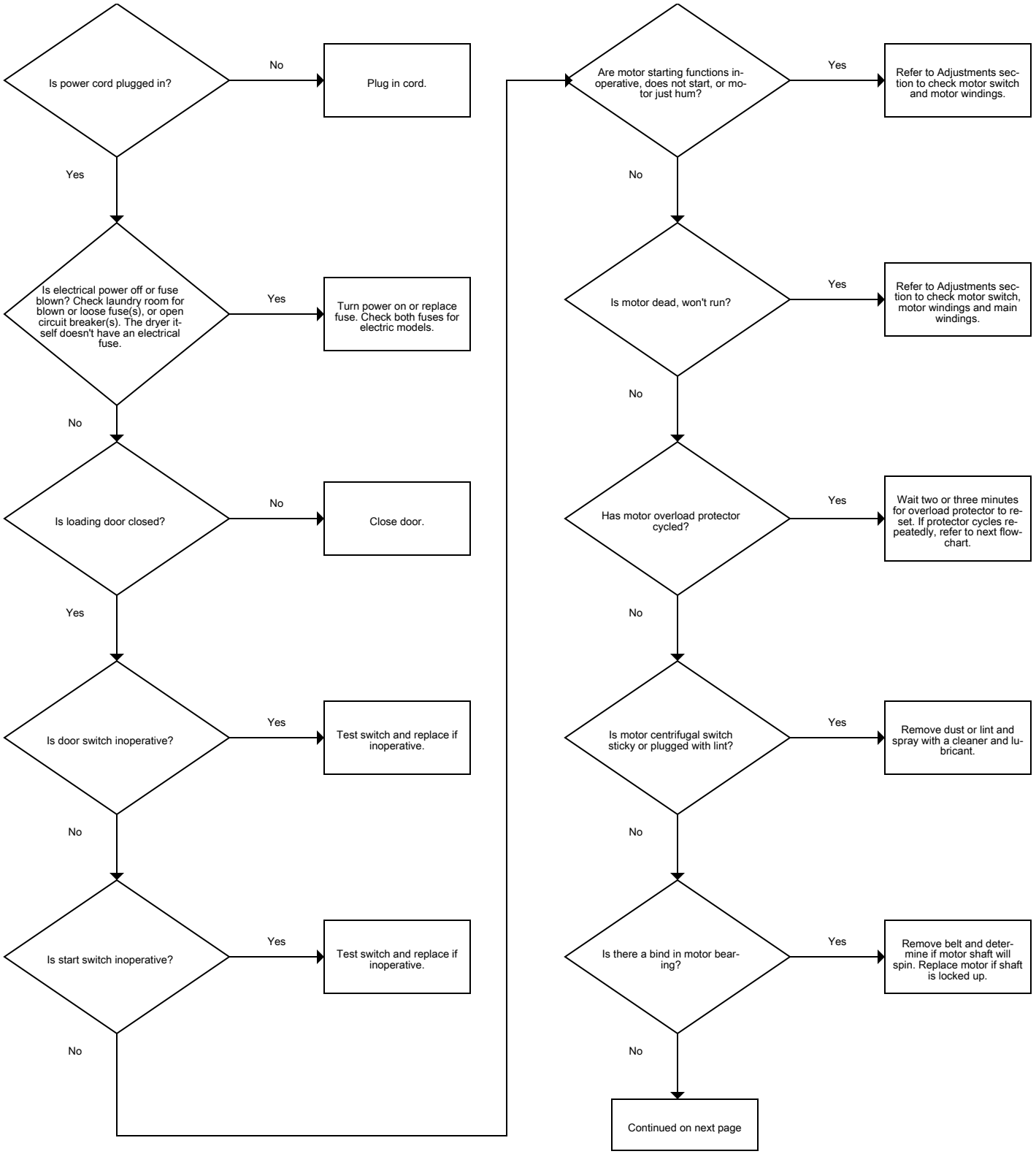
- **Disconnect electric power to the dryer before servicing.**
- **Close gas shut-of valve to gas dryer before servicing.**
- **Never start the Dryer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the dryer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

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IMPORTANT: Refer to wiring diagram for aid in testing dryer components.

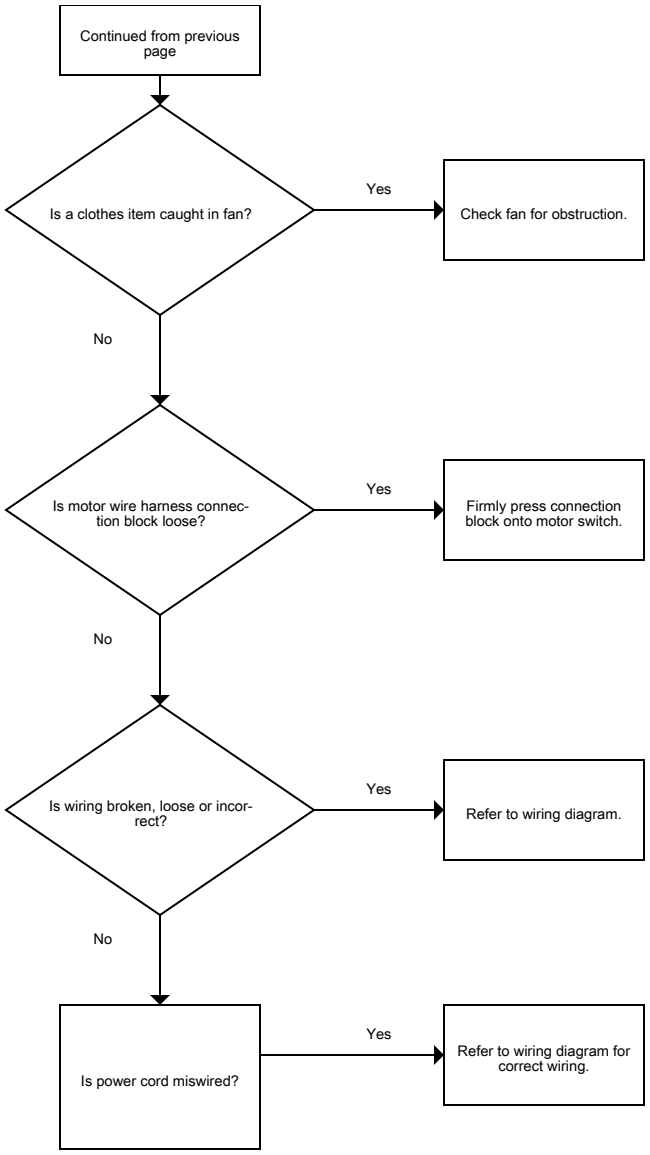
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Dryer Motor Does Not Run



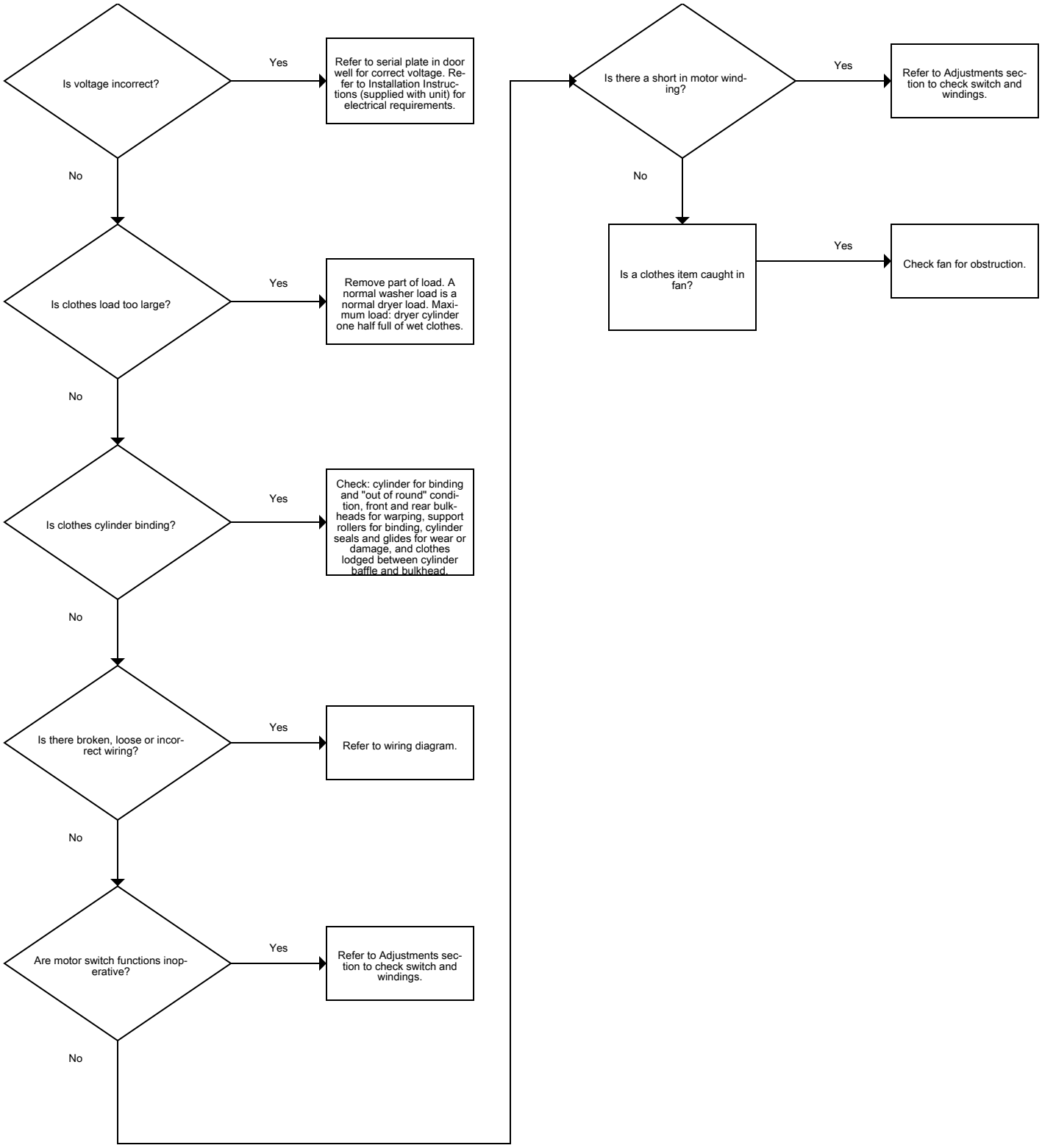
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Dryer Motor Does Not Run (continued)



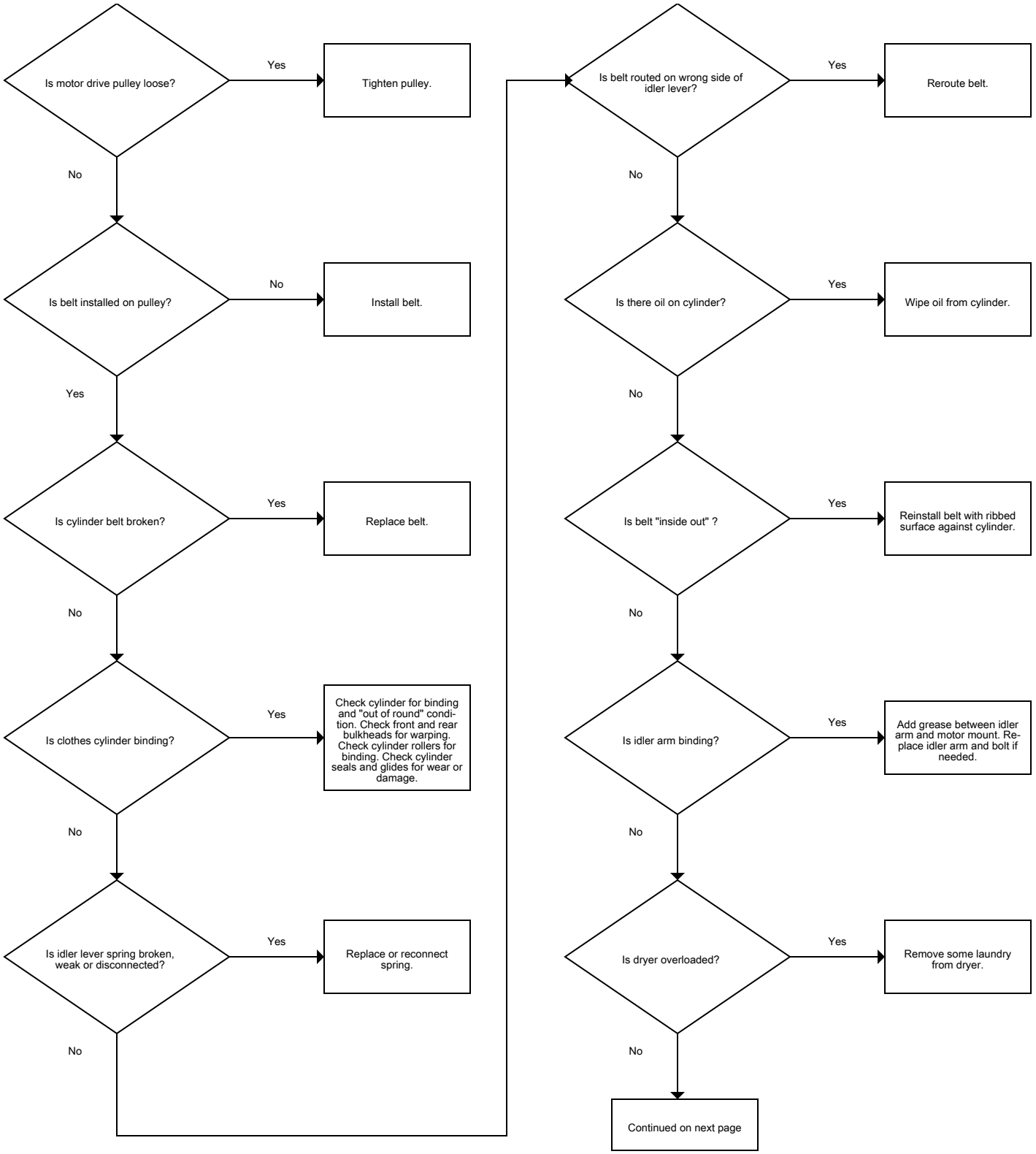
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Dryer Stops in Cycle; Quits After the First Few Loads; Has a Burning Smell; Cycles on Motor Thermal Protector



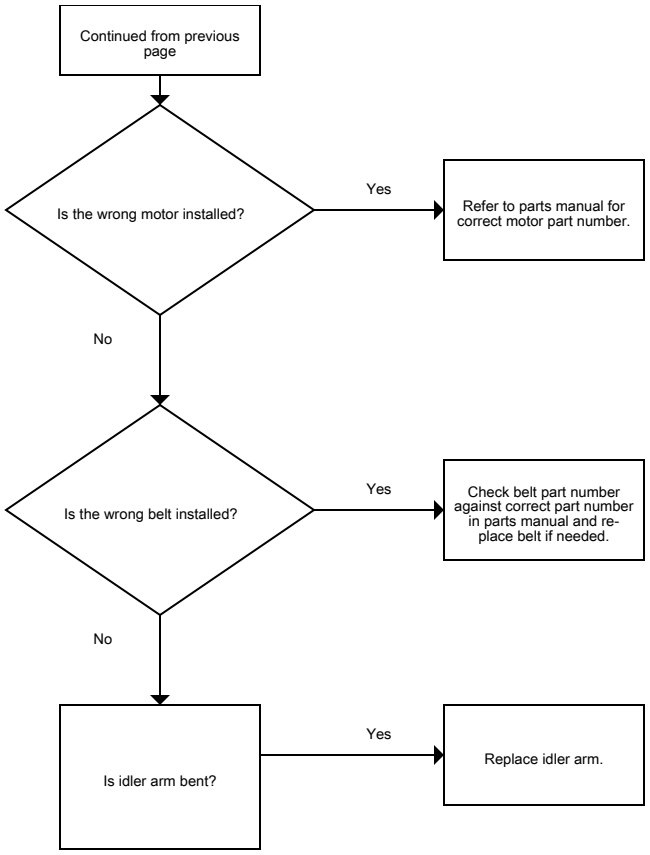
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Dryer Motor Runs but Cylinder Does Not Turn



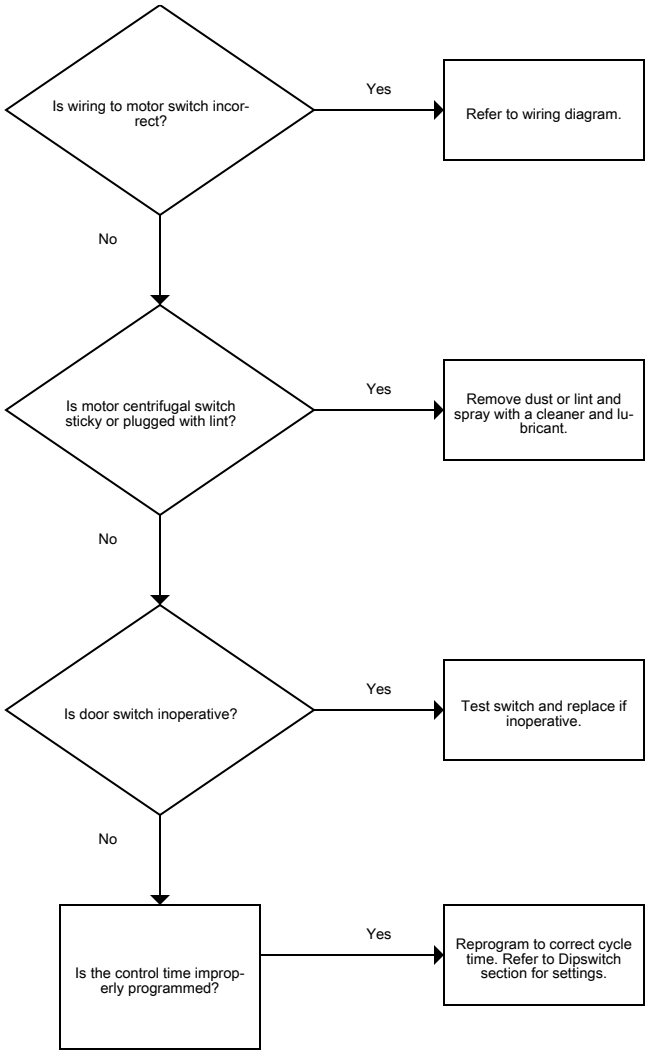
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Dryer Motor Runs but Cylinder Does Not Turn (continued)



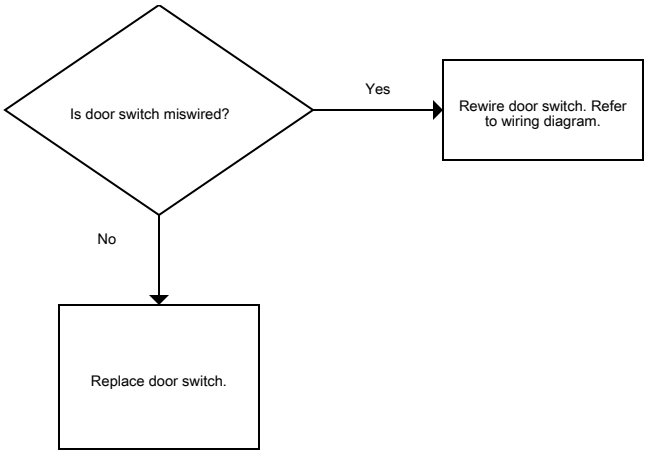
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Dryer Motor Does Not Stop



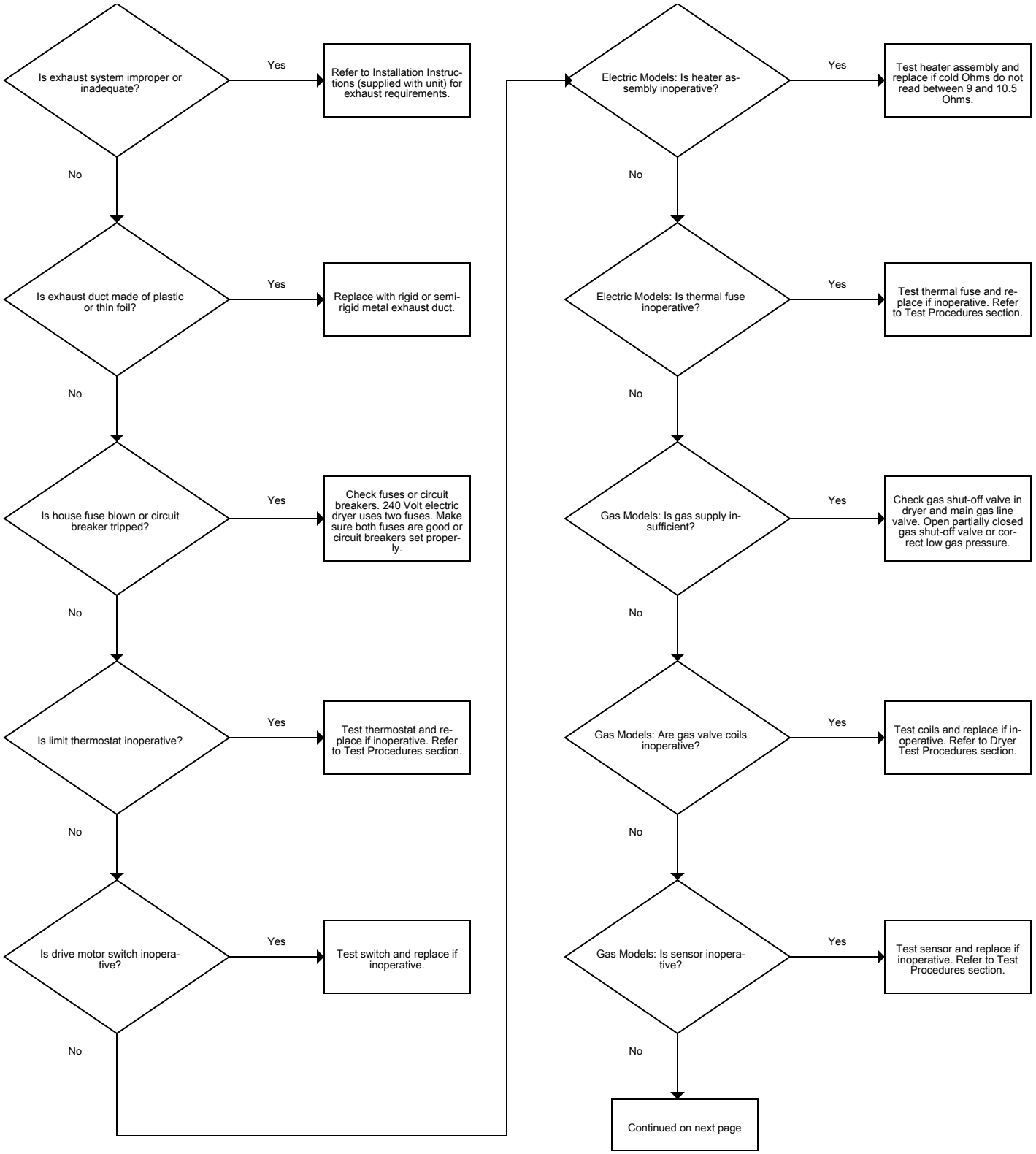
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Dryer Runs Only When Door is Open



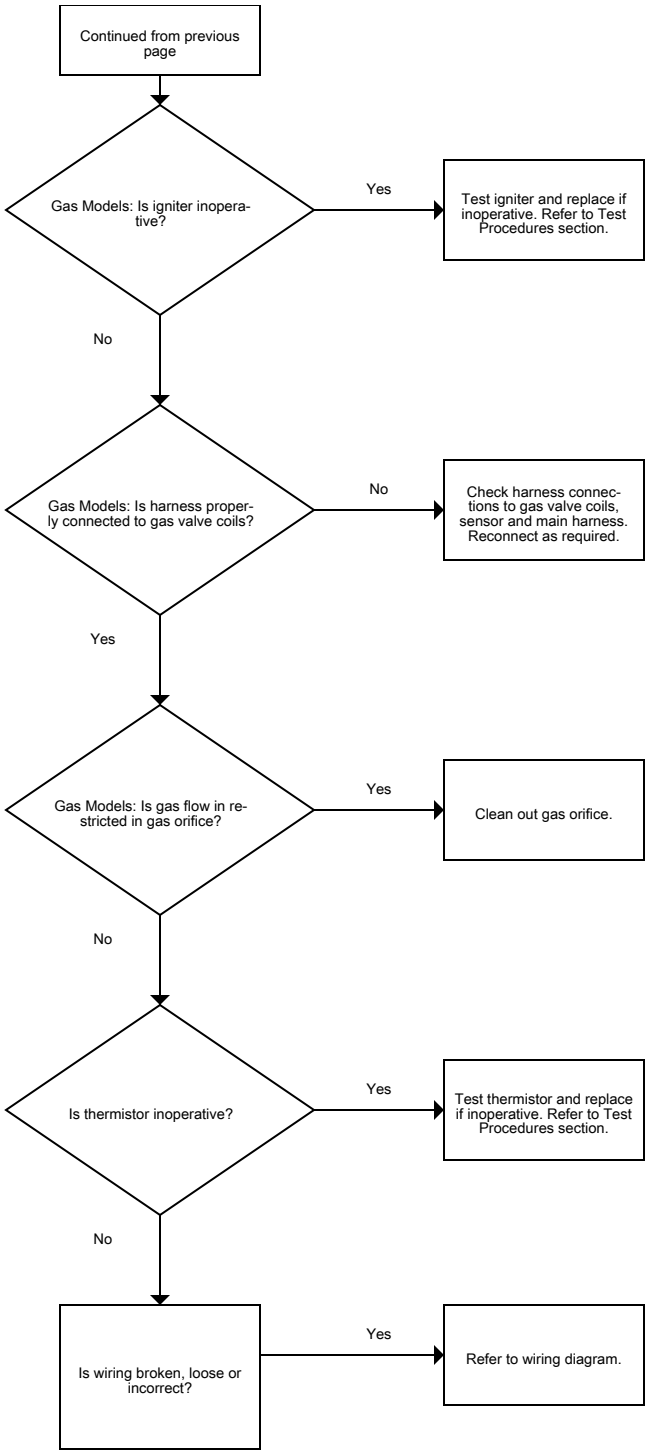
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Dryer Heating Assembly Does Not Heat or Burner Does Not Ignite



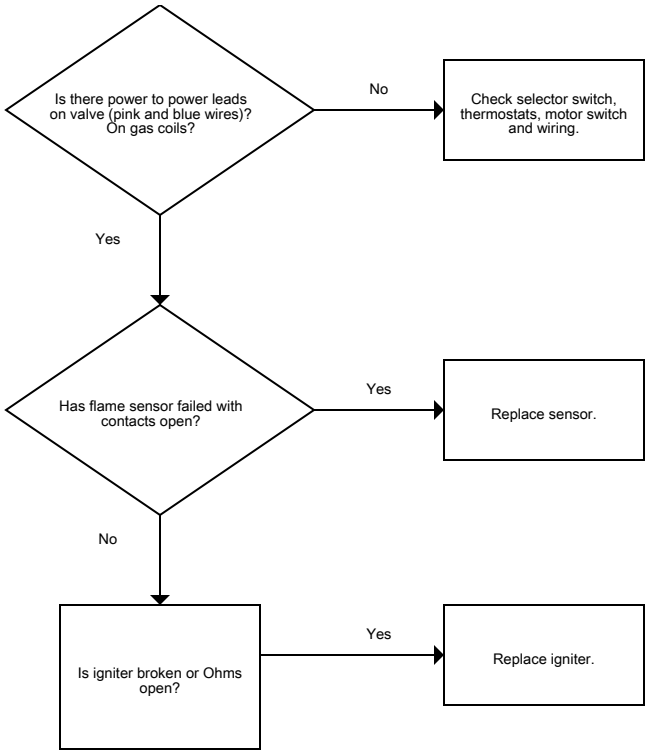
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Dryer Heating Assembly Does Not Heat or Burner Does Not Ignite (continued)



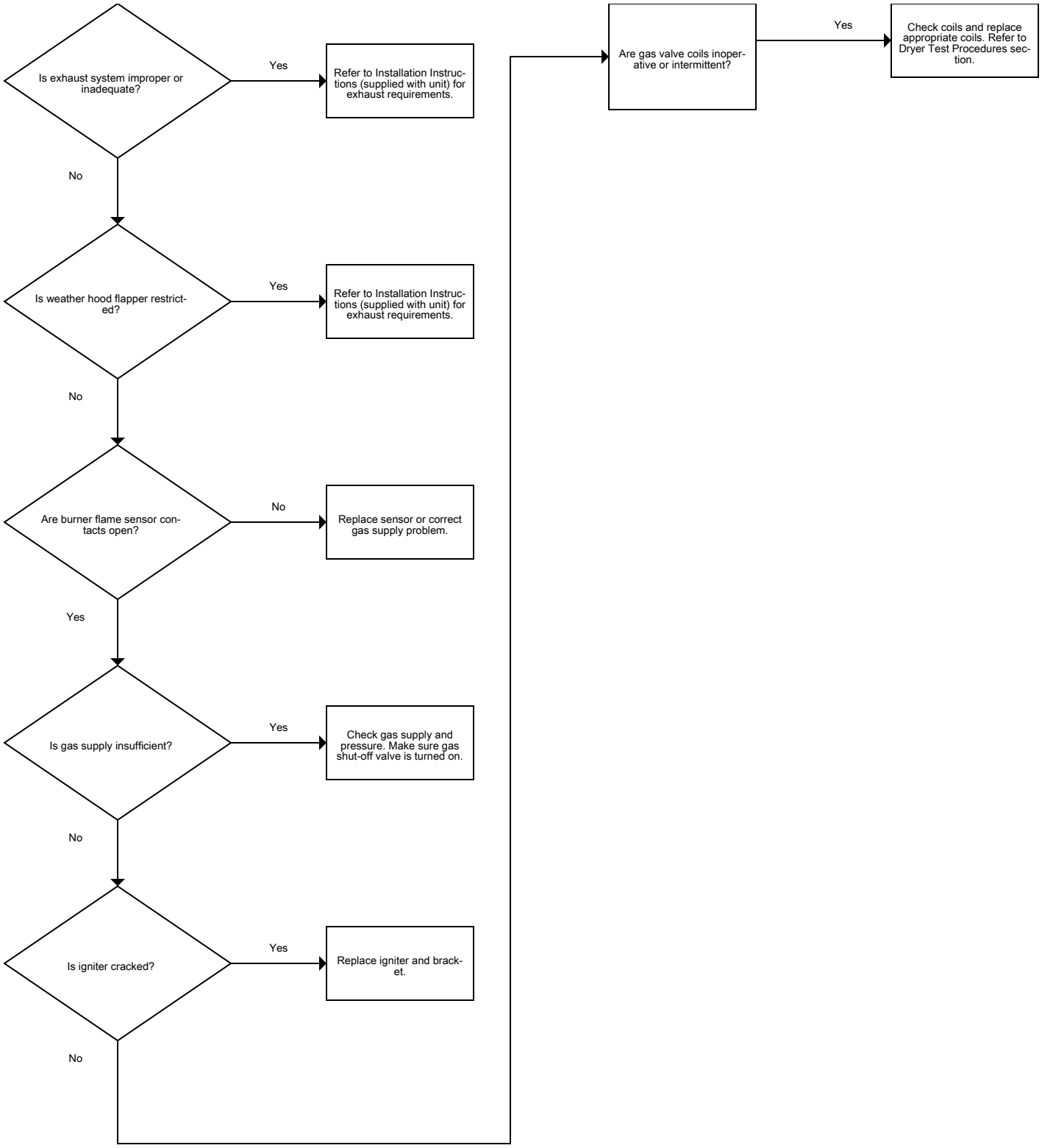
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Igniter Does Not Glow (Gas Supply Sufficient) - Gas Dryer Models



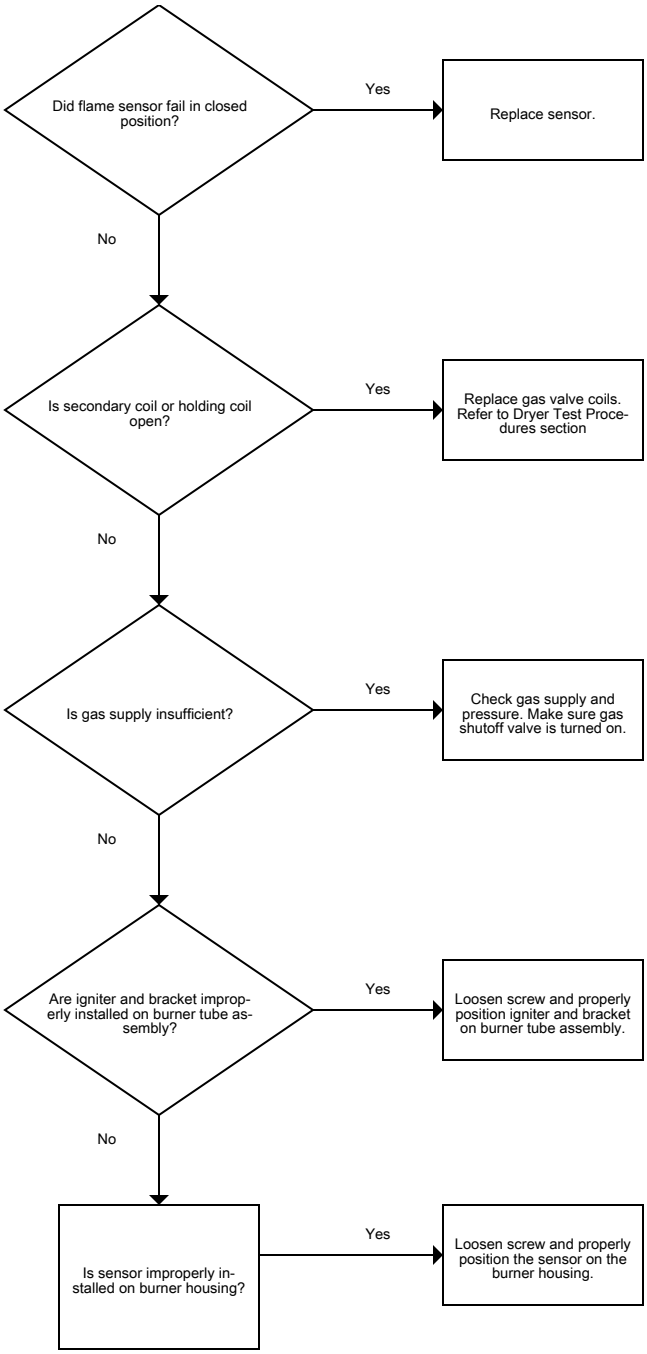
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Burner Ignites and Goes Out Repeatedly (Gas Dryer Models)



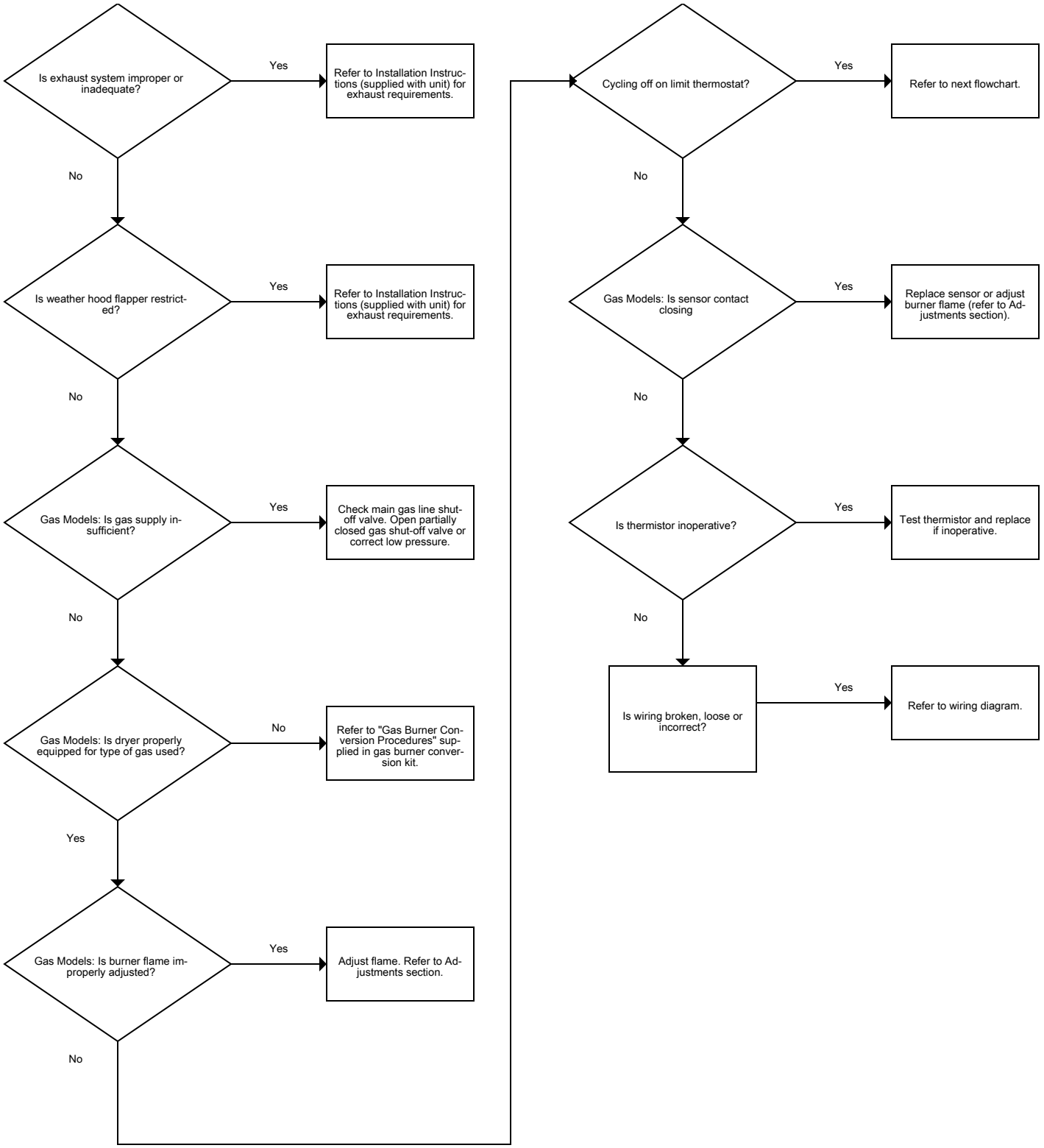
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Igniter Glows but Burner Does Not Ignite (Gas Dryer Models)



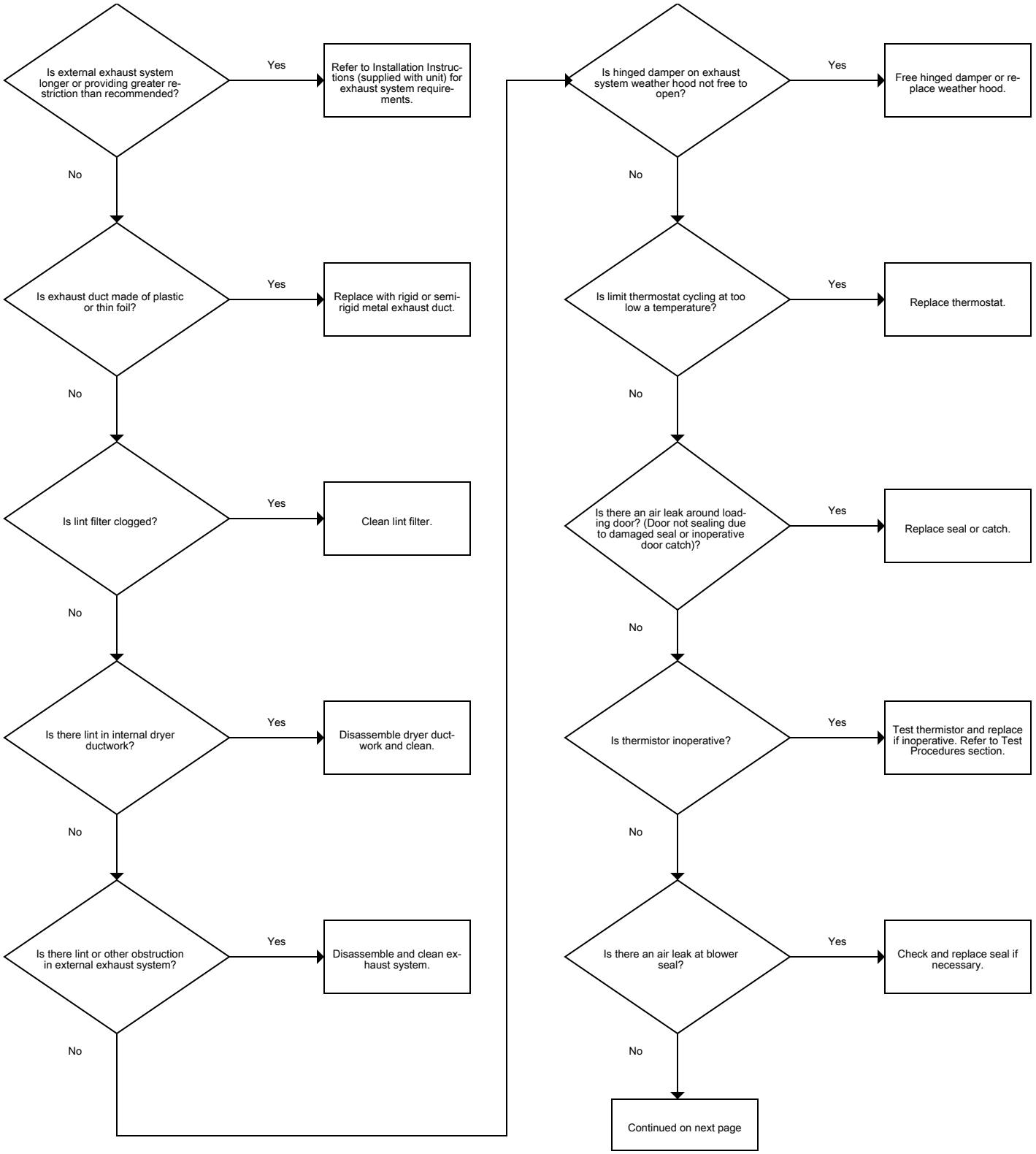
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Dryer Heater Assembly or Burner Shuts Off Prematurely



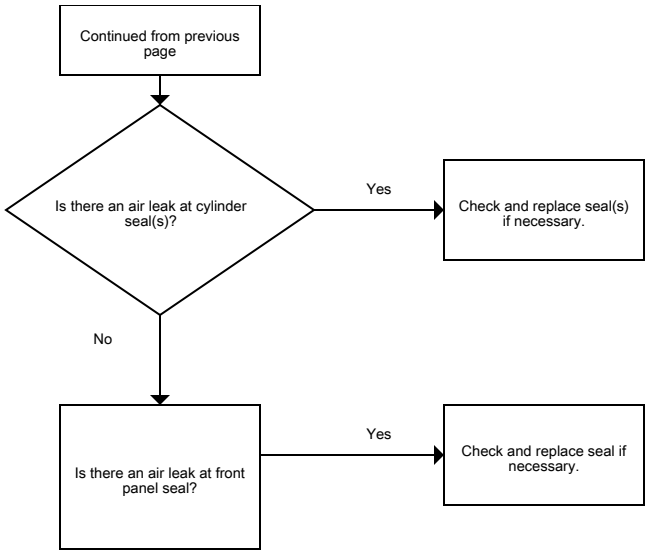
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Dryer Heater Assembly or Burner Repeatedly Cycles Off On Limit Thermostat



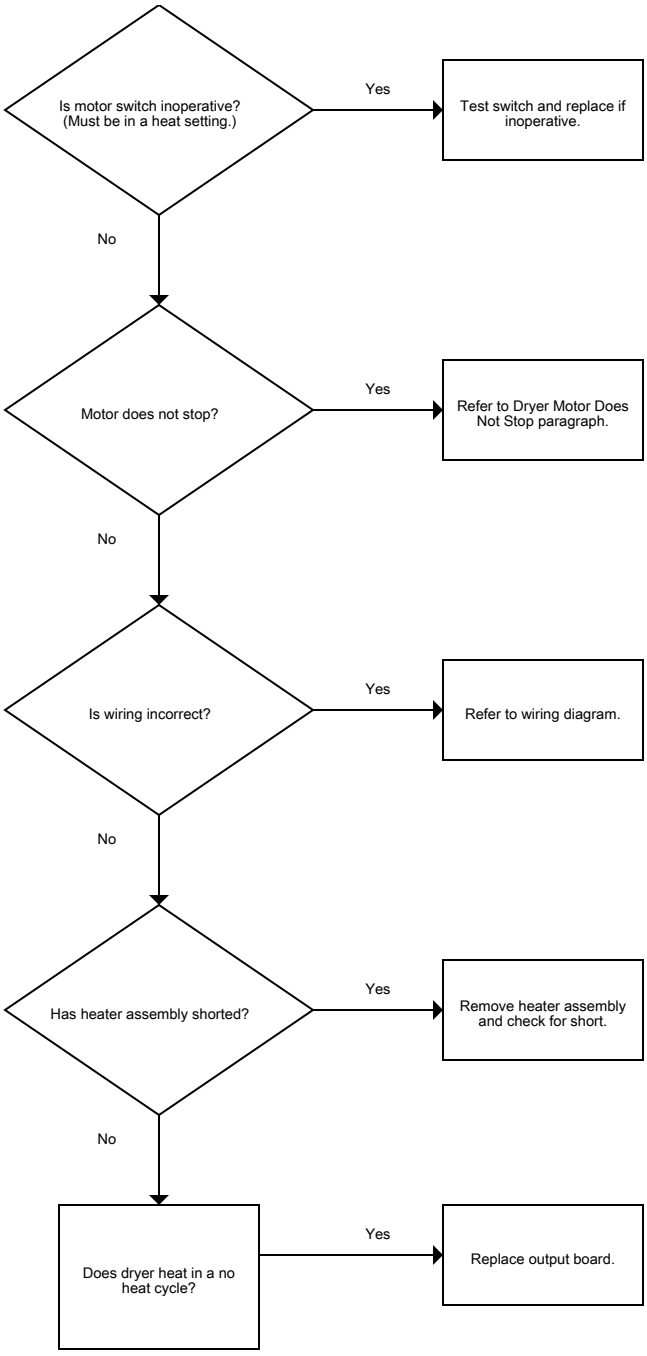
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Dryer Heater Assembly or Burner Repeatedly Cycles Off On Limit Thermostat (continued)



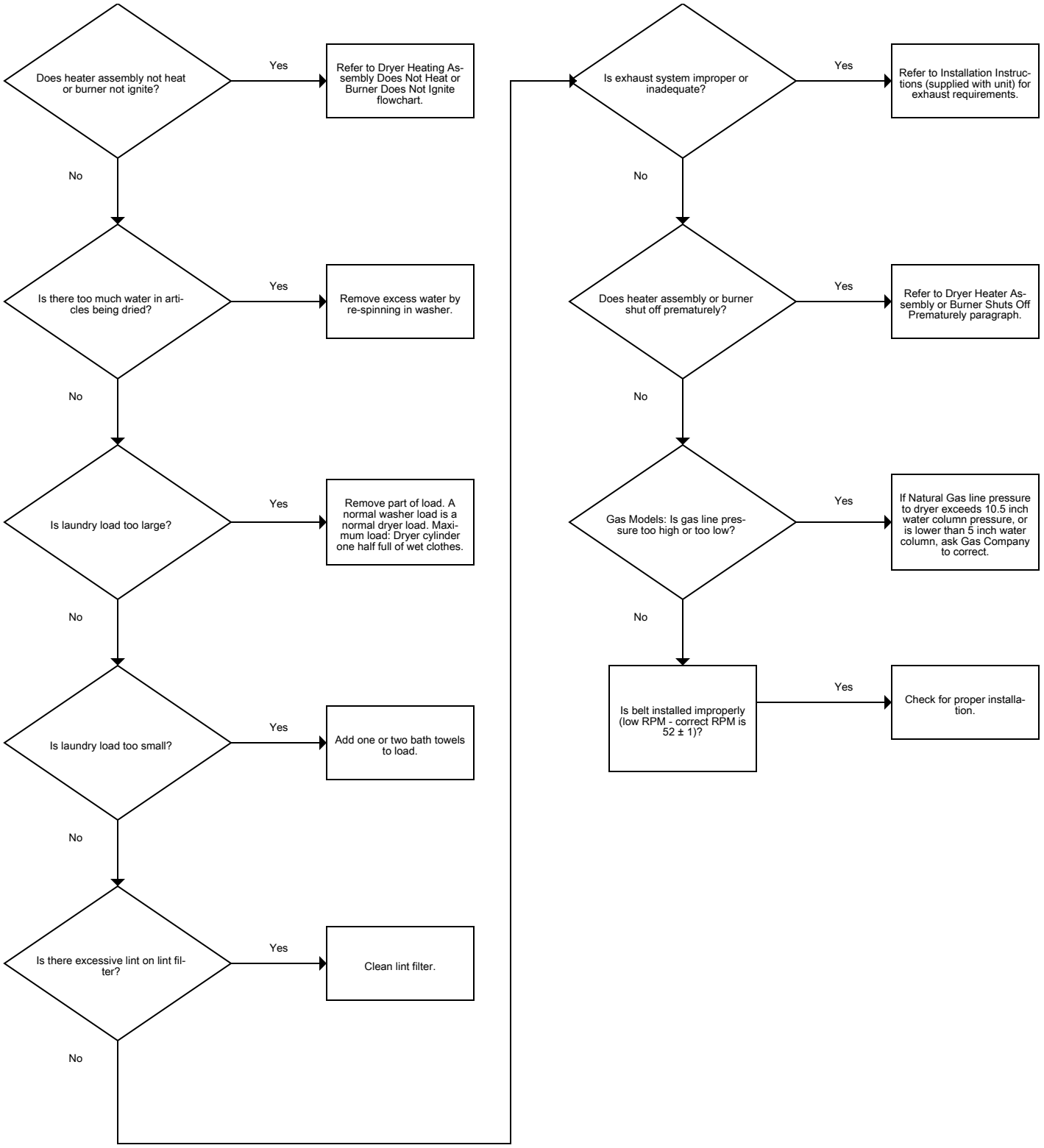
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Dryer Heater Assembly or Burner Does Not Shut Off



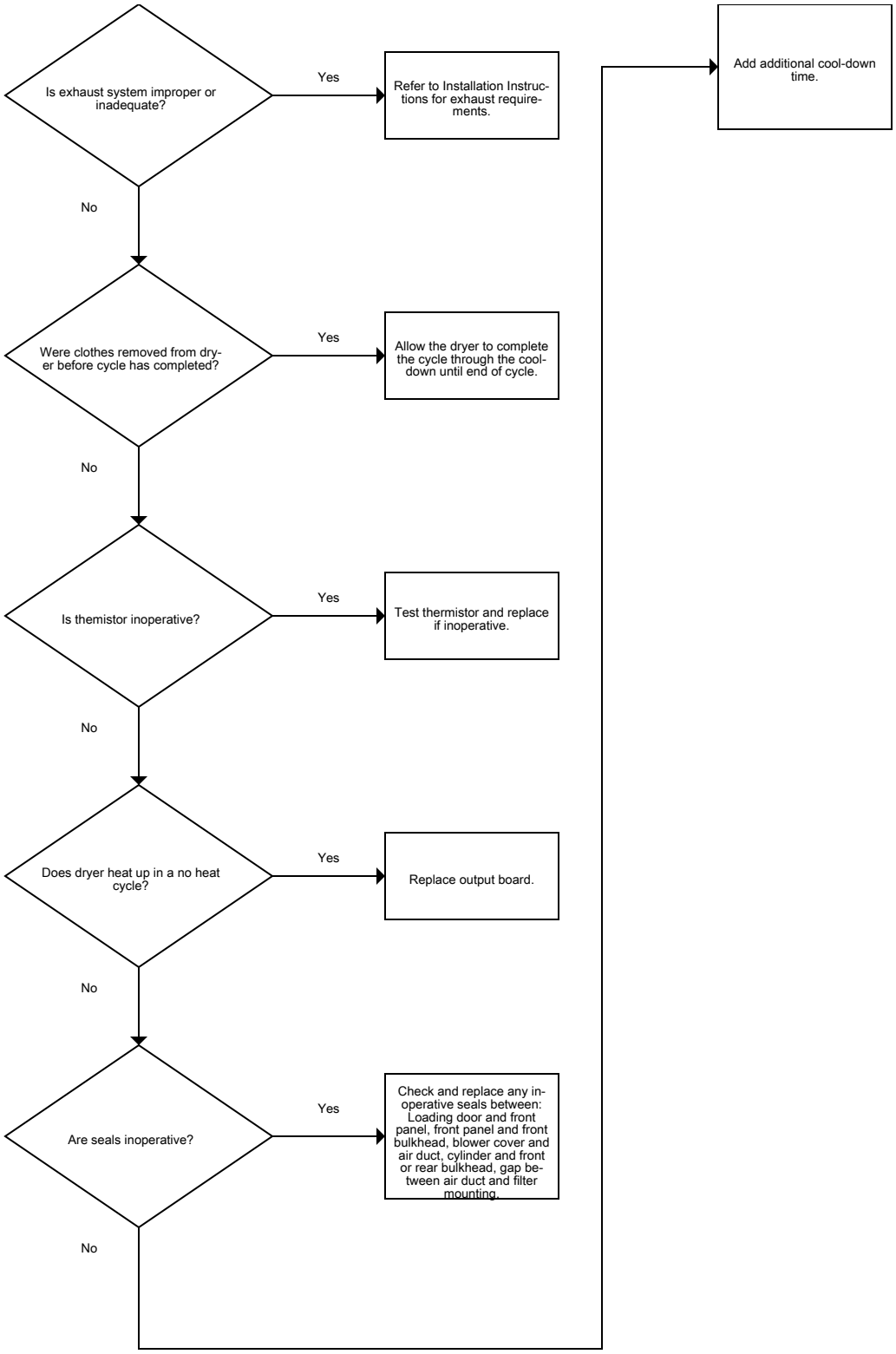
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Clothes Do Not Dry in Dryer



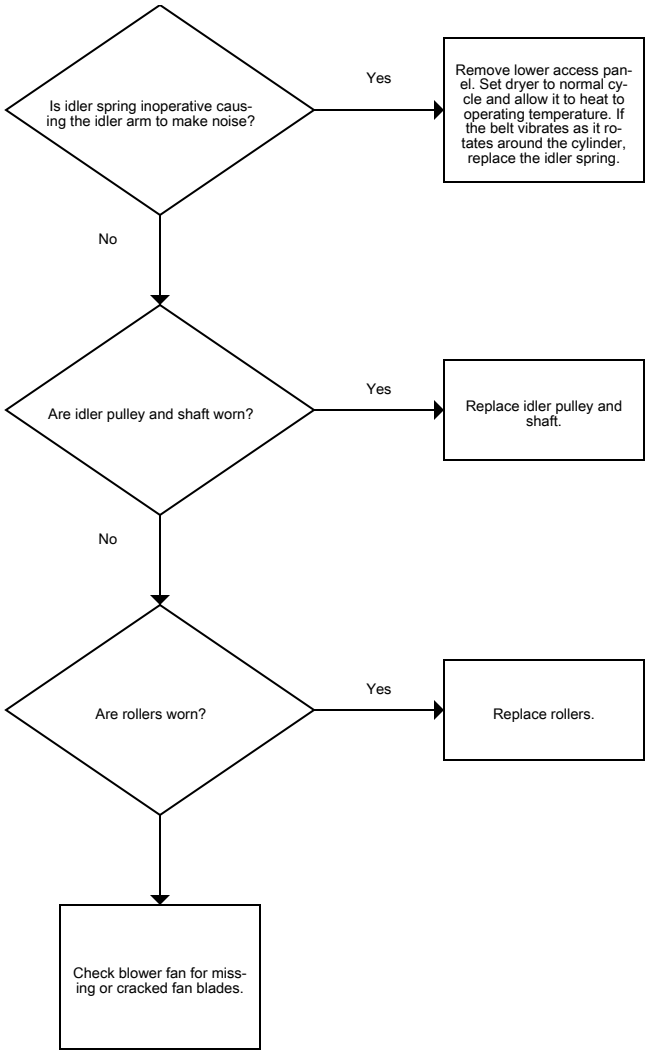
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Clothes Are Too Hot When Removed From Dryer



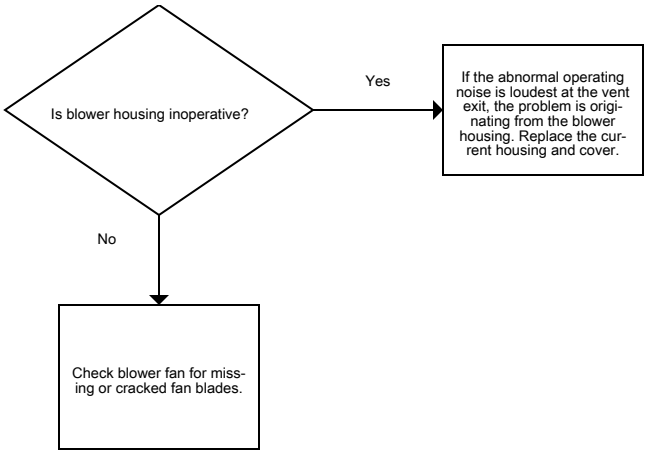
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Excessive Chattering or Vibrating Noise in Dryer



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Excessive Humming or Whistling Noise in Dryer



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Electronic Control Troubleshooting

WARNING

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

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

W001R1

Error Codes

Following is a list of possible error codes for an electronic control. Errors beginning with EC refer to card reader errors. All other errors refer to machine errors.

Display	Description	Cause/ Corrective Action
EC02	Time-out Error	Communication failure. Try card again.
EC03	Invalid Command Code	Incorrect machine type. Before downloading, ensure data is for current machine type.
EC05	Invalid or Out-of-Range Data	Incorrect machine type. Before downloading, ensure data is for current machine type and values entered are within the minimum and maximum limits.
EC 11	No Card Reader Initialization	Communication is valid, but there is no card reader initialization. Power down, power up and try again.
EC 18	No Communication	Card reader initialized, communication lost. Power down, power up and try again. If error persists, replace control or card reader.
EC 19	No Card Reader Communication and No Card Reader Initialization	Communication failure. Power down, power up, check connections, harness and try again. If error persists, replace control or card reader.
EC36	Audit Card Removed Prematurely	Re-insert Audit Card and wait until machine prompts for card removal.
Right most decimal point Lit	Network Communication Error	Communication problem. Wait for 1.5 minutes for error to clear. If error doesn't clear, power-down and power-up the machine. Check all network connections. If error persists, replace control or network board.

continues...

Table 1

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Display	Description	Cause/ Corrective Action
ALArn	Break-in Alarm Error	Service the service door or coin vault switches.
oFF	Break-in Alarm Shutdown Error	Service the service door or coin vault switches.
Err	Coin Error	Invalid coin pulse or inoperative coin sensor. Check coin drop area and remove obstructions. If error persists, tampering may have occurred. Evaluate security procedures.
E SH	Shorted Thermistor Error	Dead short in thermistor circuit. Check wiring harness and remove any lint build-up around thermistor. If problem persists, replace thermistor or output board.
E oP	Open Thermistor Error	Physical open in thermistor circuit. Check wiring harness and remove any lint build-up around thermistor. If problem persists, replace thermistor or output board.
E id	Board ID	Incorrect replacement control. Replace user control or output board with correct part.
E nr	Output Board Not Ready	Hardware failure. Replace output board.
E bS	Output Board Communication	Hardware failure. Replace output board.
E Co	Output Board Communication	Communication failure. Power down, power up and try again. If error persists, check connection between user control and output board, or try replacing the user control or the output board.
E 59	Door Input Acquisition	Hardware failure. Replace output board.
E 60	Centrifugal Switch Input Acquisition	Hardware failure. Replace output board.
E 61	High Limit Thermostat Input Acquisition	Hardware failure. Replace output board.
E ro	Locked Rotor	The motor is not sensed as rotating when it should be. Check that nothing is obstructing motor rotation, check connection between user control and output board, or try replacing the user control or the output board.
E rot	Rotation Error	The motor is enabled but the motor centrifugal switch input indicates the motor has been stopped for at least 3 consecutive seconds. Power down, power up and try again.
E nS	Motor Output Shorted	Hardware failure. Replace output board.

continues...

Table 1

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Display	Description	Cause/ Corrective Action
uoLtAg	Voltage Configuration	During the first power up, the machine will configure the nominal voltage to expect. If the machine is later converted to be connected to a different voltage (or in a 120V brownout case when configured for 240V), it will show uoLtAg and will not go any further until it senses the voltage it is configured for. If this happens and if changing the voltage configuration is desired, press any key to force the control to reconfigure.

Table 1

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Coin Drop Troubleshooting

WARNING

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

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

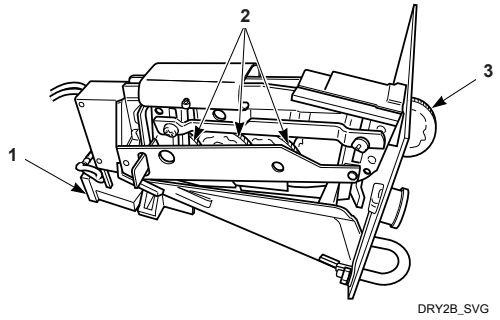
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Non-Electronic Coin Drops

When coin is placed into coin slot, the coin should roll down drop and be heard dropping into coin vault. If coin does not fall into coin vault or if coin drop sensor does not register that coin has been entered, follow troubleshooting instructions on following page. Refer to *Figure 2* for path that coin follows when working properly.

IMPORTANT: Never use oil to correct coin drop problems. Oil residue will prevent coins from rolling properly.

IMPORTANT: Do not bend or damage mechanical parts within coin drop.



1. Coin Drop Sensor
2. Additional Coins Following Path to Sensor
3. Coin in Coin Slot

Figure 2

Electronic Coin Drops

If coin drop is not accepting coins, perform the following:

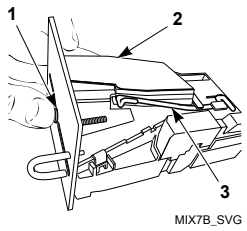
1. Clean coin drop. Refer to *Cleaning Electronic Coin Drop.*
2. On electronic coin drops with an old-style tension spring (shown in *Figure 3* and *Figure 4*), test and replace tension spring using the following instructions.

Remove Coin Drop From Machine

1. Disconnect electrical power to machine and drop.
2. Remove coin drop from machine.

Test Tension Spring

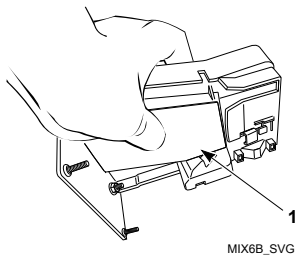
1. Push coin return button to open and close coin drop cover to clear possible coin jams. Refer to *Figure 3.*



1. Coin Return Button
2. Coin Drop Cover
3. Tension Spring

Figure 3

2. Manually hold down coin drop cover and insert coin. Refer to *Figure 4.*



1. Coin Drop Cover

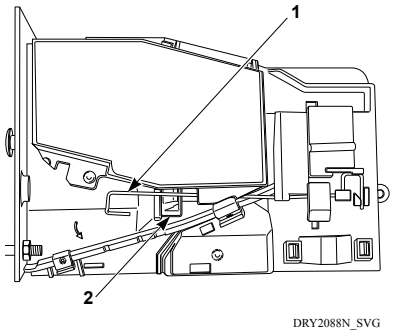
Figure 4

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3. If coin drop now operates properly, replace tension spring using instructions on following pages.

Replace Tension Spring

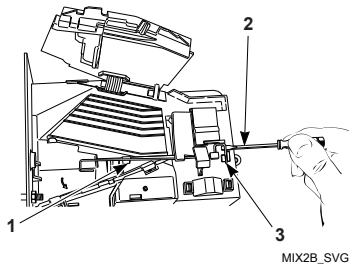
1. Move tension spring downward until cover catch is free. Refer to *Figure 5*.



1. Tension Spring
2. Cover Catch

Figure 5

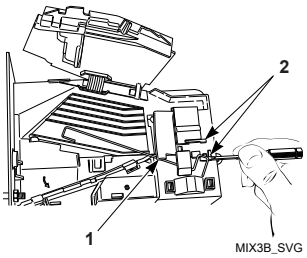
2. Open cover for coin drop.
3. Place a small flathead screwdriver under right side of tension spring and lift up. Refer to *Figure 6*.



1. Left Tab
2. Small Flathed Screwdriver
3. Right Side of Tension Spring

Figure 6

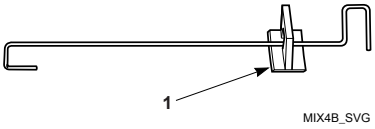
4. Use screwdriver to move spring approximately 3 mm to left.
5. Lift spring over left tab. Refer to *Figure 6*.
6. Rotate spring clockwise, 40 to 60 degrees, until it is free from right tabs. Refer to *Figure 7*.



1. Center Tab
2. Tabs

Figure 7

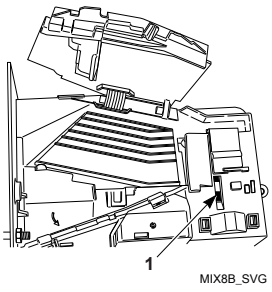
7. Use screwdriver to remove spring from center tab. Refer to *Figure 7*.
8. Lift spring, with attached clip, off drop.
9. Remove clip from spring. Refer to *Figure 8*.



1. Clip

Figure 8

10. Attach clip to new tension spring, Part No. 209/00598/02.
11. Place clip, installed on spring, in slot on coin drop. Refer to *Figure 9*.

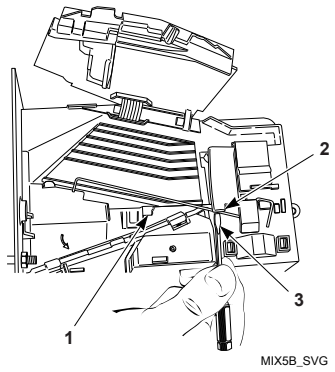


1. Slot

Figure 9

12. Use a small flathead screwdriver to push spring under center tab. Refer to *Figure 10*.

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1. Left Tab
2. Center Tab
3. Small Flat Screwdriver

Figure 10

13. Lift spring gently to place in position under left tab.
14. Push spring to right until it snaps into position. Refer to *Figure 6.*
15. Close coin drop cover.
16. Move tension spring over cover catch. Refer to *Figure 5.*

Reinstall Coin Drop Into Machine

1. Reinstall coin drop into machine.
2. Reconnect electrical power to machine and drop.
3. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

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Test Procedures

WARNING

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

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

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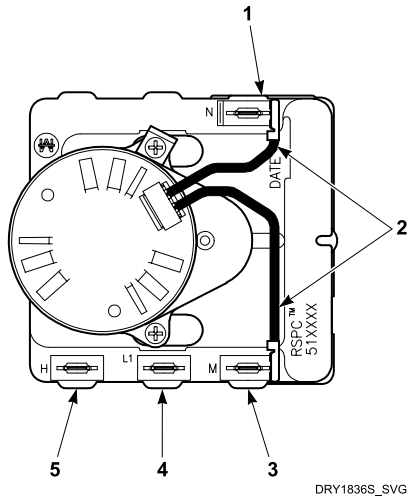
IMPORTANT: Electrical test procedures in this service manual are performed by using a Volt-Ohm meter. Tests can also be performed using a multimeter or any other electrical testing equipment with which the service person is familiar.

Timer Contacts

Refer to *Figure 11*.

1. Disconnect wires from timer, except timer motor wires.

   NOTE: Refer to wiring diagram when rewiring timer.
2. While supporting timer, remove screws holding timer to control cabinet.
3. Pull timer out through control panel opening as far as wires will permit.
4. Manually rotate timer out of "OFF" position and into cycle.
5. Set test meter to read Ohms. The following readings should be found:
   a. Motor circuit test – L1 and M = "zero" Ohms (closed)
   b. Heat circuit test – L2 and H = "zero" Ohms (closed)
   c. Timer motor test – T and M (1702 and1709 suffix models) or T and N (all other models) = approximately 2460-3100 Ohms or apply live power to timer motor terminals and motor should run.



1. "N"
2. Timer Motor Wires
3. "M"
4. "L1"
5. "H"

Figure 11

Timer Motor Resistance:	
120 Volt, 60 Hz	2,460 – 3,100 Ohms
240 Volt	10,900 – 13,000 Ohms
24 Volt	80 – 130 Ohms

   d. Rotate timer to "cooldown" (5 minutes before "OFF"). "Infinite" (open) reading should be found between L2 and H.
   e. Rotate timer to "OFF" position. "Infinite" (open) reading should be found between L1 and M and between L2 and H.

NOTE: Timer motor power is supplied through M (1702 and 1709 models) or N (all other models) terminal.

Drive Motor

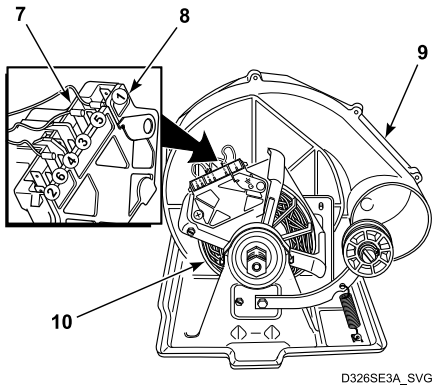
Refer to *Figure 12*.

1. Remove motor and exhaust assembly.
2. Disconnect motor wire harness at motor disconnect block.

   NOTE: Refer to *Internal Wiring of Dryer Motor Switch* for wiring schematic.

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Drive Motor Resistance:	
120 Volt	2,460 – 3,100 Ohms
240 Volt	10,000 - 13,000 Ohms
24 Volt	80 - 130 Ohms



1. Terminal 1
2. Terminal 2
3. Terminal 3
4. Terminal 4
5. Terminal 5
6. Terminal 6
7. Motor Disconnect Block
8. Motor Switch
9. Motor and Exhaust Assembly
10. Drive Motor

Figure 12

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Drive Motor - Motor Switch

Refer to *Internal Wiring of Dryer Motor Switch* for wiring schematic.

WARNING

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

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NOTE: Disconnect terminal 5 wire from motor switch before testing start terminals.

NOTE: Reconnect terminal 5 wire to motor switch before testing run terminals.

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

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Drive Motor - Motor Switch (continued)



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Drive Motor - Motor Windings

Refer to *Internal Wiring of Dryer Motor Switch* for wiring schematic.

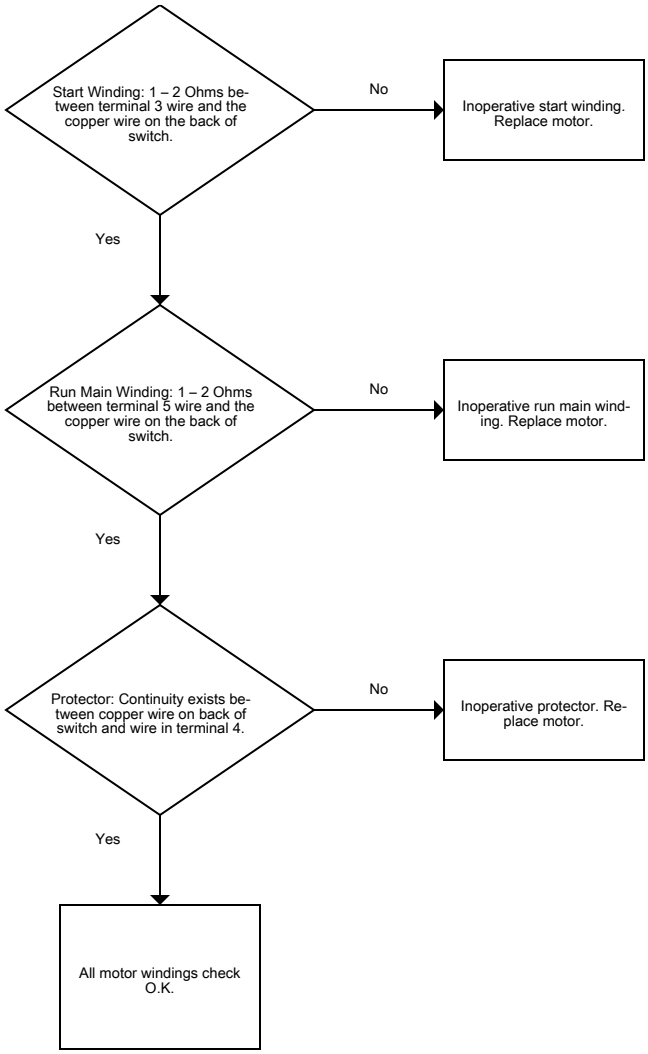
WARNING

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

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Drive Motor - Motor Windings (continued)



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Motor Switch

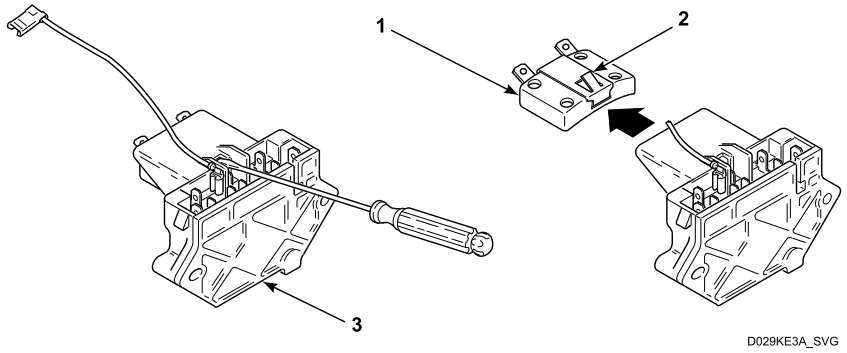
1. Remove motor and exhaust fan assembly.
2. Remove the two motor switch attaching screws. Refer to *Figure 13*. Disconnect switch leads. Remove motor switch.
3. Remove thermal overload protector.

   NOTE: The thermal overload protector is unique to the motor from which it was removed and should only be used on that motor. To reduce the risk of overheating the motor, do not use any thermal overload protector other than the one taken from the inoperative motor switch in step 3.

   a. **Motor with Switch on Blower End**. Using a small bladed screwdriver, press the thermal overload protector mounting tab downward and remove the thermal overload protector from the inoperative motor switch. Refer to *Figure 13*.

   b. **Motor with Switch on Pulley End.** Press the tip of a small bladed screwdriver into the slot located between top of motor switch and plastic clip. Lift up on handle of screwdriver until both clip and thermal overload protector detach from motor switch. Refer to *Figure 14*.
4. Attach the thermal overload protector removed in Step “3” to the new motor switch.
5. Install new motor switch onto motor and reconnect motor switch leads removed in Step “2”. Refer to *Figure 13*.
6. Test motor switch by following the step-by-step procedures. Refer to *Drive Motor*.
7. Before reinstalling the motor assembly, apply power (120 VAC) directly to motor terminals 4 and 5. Then start and run the motor at least 6 times, making sure the motor and switch are operating properly.

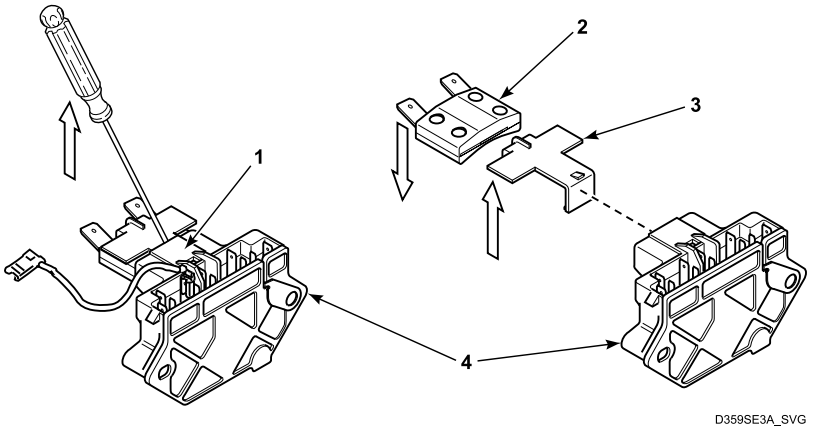
   NOTE: The dryer manufacturer and parts suppliers are not liable for improper switch installation.



1. Thermal Overload Protector
2. Mounting Tab
3. Motor Switch

Figure 13

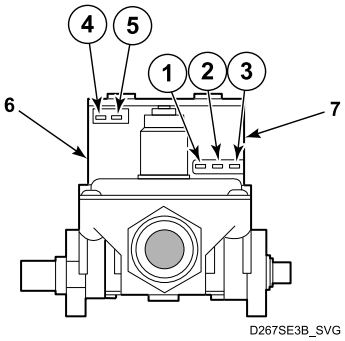
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1. Top of Motor Switch
2. Thermal Overload Protector
3. Plastic Clip
4. Motor Switch

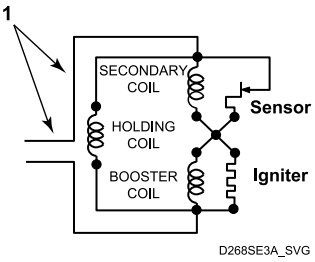
Figure 14

Burner System Operation - Gas Models



1. Terminal 1
2. Terminal 2
3. Terminal 3
4. Terminal 4
5. Terminal 5
6. Secondary Coil
7. Holding Coil and Booster Coil (Split Coil Valve)

Figure 15



1. 120 Volt, 60 Hertz Electrical Supply Line

Figure 16

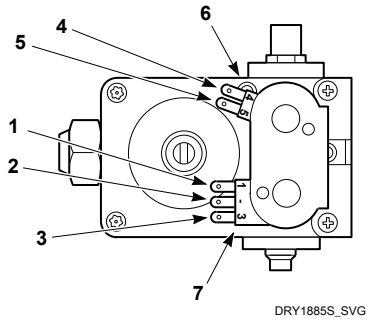
Gas Models - Refer to *Figure 15* and *Figure 16.*

1. **Components.** This burner has four basic components: a silicon carbide (glow bar) igniter, burner tube, sensor, and a two-stage gas valve consisting of a split-coil valve and a secondary coil valve. The split-coil valve is opened when the dryer thermostat calls for heat, while the secondary valve does not open until the igniter has attained ignition temperature.
2. **Pre-Ignition Circuits.** When the dryer thermostat calls for heat, circuits are completed through the holding coil, sensor, booster coil and igniter. Both coils must be energized to open the split-coil valve. Once opened, the holding coil can hold the valve open without assistance from the booster coil. The sensor triggers the current to travel around the secondary coil and through the igniter, causing the igniter to get hot.
3. **Burner Circuit.** In approximately 30 seconds, the igniter attains ignition temperature and ignition is made. The heat

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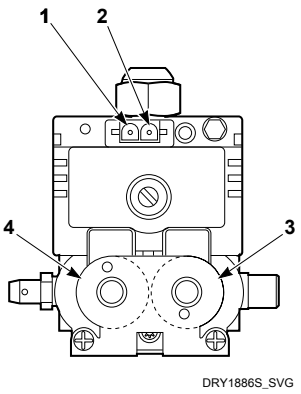
from the burner flame causes the sensor contacts (located on burner housing beside the igniter) to open. A circuit is then completed through the secondary valve coil, opening the valve and allowing gas to flow.

4. **Momentary Power Interruption.** Upon resumption of power, sensor contacts will still be open, permitting secondary valve to open. However, with the secondary coil in the circuit, the booster coil cannot draw enough current to open the split-coil valve. When sensor contacts do reclose, the secondary valve will close, and the burner system will be in the normal pre-ignition circuit.
5. **Flame Failure.** In case of flame failure, the 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.
6. **Ignition Failure.** If flame is not established as sensor contacts open, secondary valve will remain open until sensor contacts re-close. Sensor will continue to recycle the igniter and secondary valve (about once per minute) until ignition is made or dryer is turned off.



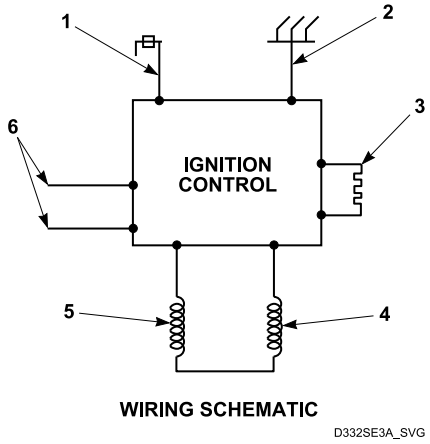
1. Terminal 1
2. Terminal 2
3. Terminal 3
4. Terminal 4
5. Terminal 5
6. Secondary Coil
7. Holding and Booster Coil

Figure 17



1. Terminal 1
2. Terminal 2
3. Redundant Coil
4. Main Coil

Figure 18



1. Flame Sensor
2. Ground
3. Igniter
4. Redundant Coil
5. Main Coil
6. 220/240 Volt, 50 Hertz Electrical Supply Line

Figure 19

Electrical Circuit To Ignition System (Gas Models)

1. While supporting the access panel, remove two screws from bottom edge of access panel.
2. Gently lower the access panel to disengage locators from bottom edge of front panel.

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3. Close main gas shut-off valve. Refer to *Figure 22* and *Figure 23*.
4. Remove valve wire harness disconnect block from the holding and booster coil. Refer to *Figure 17* and *Figure 18*.
5. Plug dryer power cord into wall receptacle, and start the dryer in a heat setting (refer to dryer Operating Instructions).
6. 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. Refer to *Figure 15* and *Figure 16*. Meter should register line voltage in all temperature settings, except NO HEAT which should read "zero" VAC.
7. If meter does not read line voltage in step "f", check motor switch, thermostats, fabric switch, or control.

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.

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Gas Valve Coils Check (Gas Models)

1. While supporting the access panel, remove two screws from bottom edge of access panel.
2. Gently lower the access panel to disengage locators from bottom edge of front panel.
3. Close main gas shut-off valve. Refer to *Figure 22* and *Figure 23*.
4. Remove disconnect blocks from gas valve coils.
5. Set test meter to read Ohms and put meter probes to terminals shown in *Figure 17*, *Figure 18*, *Figure 19*, and in the following chart.

   Silicon Carbide Ignition:

Coil Tolerance Readings		
Meter probes to terminals:	Meter should read:	
	50 Hertz	60 Hertz
Holding Coil – Terminals 1 & 2	1700 ± 285 Ohms	1365 ± 230 Ohms
Booster Coil – Terminals 1 & 3	685 ± 115 Ohms	560 ± 100 Ohms
Secondary Coil – Terminals 4 & 5	1680 ± 285 Ohms	1325 ± 230 Ohm

Table 2

Silicon Nitride Ignition: Both coils should read between 2400-2800 Ohms.

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

Sensor Check (Gas Models)

1. While supporting the access panel, remove two screws from bottom edge of access panel.
2. Gently lower the access panel to disengage locators from bottom edge of front panel.
3. Close main gas shut-off valve. Refer to *Figure 22* and *Figure 23*.
4. Remove wires from sensor terminals.
5. Set test meter to read Ohms and put meter probes on sensor terminals. Meter should read "zero" Ohms. If meter registers an Ohm reading of any amount, replace sensor.

Igniter Check - Gas Models

1. While supporting the access panel, remove two screws from bottom edge of access panel.
2. Gently lower the access panel to disengage locators from bottom edge of front panel.
3. Close main gas shut-off valve. Refer to *Figure 22* and *Figure 23*.
4. Disconnect igniter wires at disconnect block.
5. Set test meter to read Ohms and put meter probes on terminals of igniter wires.
6. **Silicon Carbide Igniter:** Meter should read between 45 – 200 Ohms. **Silicon Nitride Igniter:** Meter should read between 49 – 88 Ohms.

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

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

Ignition Control Grounding Check - Silicon Nitride Ignition

1. While supporting the access panel, remove two screws from bottom edge of access panel.
2. Gently lower the access panel to disengage locators from bottom edge of front panel.
3. Close main gas shut-off valve. Refer to *Figure 22* and *Figure 23*.
4. Remove wires from sensor terminals.
5. 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.

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

Thermal Fuse (Electric Models)

1. While supporting the access panel, remove two screws from bottom edge of front access panel.
2. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
3. Label and disconnect wires from thermal fuse.

   NOTE: Refer to wiring diagram when rewiring thermal fuse.
4. Set multimeter to read Ohms. Apply meter probes to 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.

Heater Assembly (Electric Models)

1. While supporting the access panel, remove two screws from bottom edge of access panel.
2. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
3. Disconnect wires from heater assembly.

   NOTE: Refer to wiring diagram when rewiring heater assembly.
4. Set meter to read Ohms. Apply meter probes to the heater assembly terminals. Meter should read as follows: (Cold Ohms).

Heater Element Color Code	KW	Voltage/Hz.	Resistance Reading
Red	5	240 V 60 Hz.	10.39 ± .31 Ohms Cold
White	4.75	208 V 60 Hz.	8.2 ± .5 Ohms Cold
Green	4.8	240 V 50 Hz.	10.75 ± .32 Ohms Cold
Yellow	4	240 V 50 Hz.	13.03 ± .39 Ohms Cold
Blue	3.1	240 V 50 Hz.	16.7 ± .5 Ohms Cold
Orange	5.35	240 V 60 Hz.	9.72 ± .3 Ohms Cold
Purple	4.25	208 V 60 Hz.	9.27 ± .3 Ohms Cold

continues...

Cycling or Limit Thermostat

1. While supporting the access panel, remove two screws from bottom edge of access panel.
2. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
3. Label and disconnect wires from thermostat.

   NOTE: Refer to wiring diagram when rewiring thermostat.
4. **Cycling Thermostat (S.P.S.T. – 2 Terminals) or Limit Thermostat**
   a. Set meter to read Ohms.
   b. Apply meter probes to the thermostat terminals.
   c. Meter should read “zero.”
5. **Cycling Thermostat (S.P.D.T. – 3 Terminals)**
   a. Set meter to read Ohms.
   b. Apply meter probes to terminals 1 and 3. Meter should read “zero”.
   c. Remove screws holding thermostat to blower fan cover.
   d. 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”.

Door Switch

1. While supporting the access panel, remove two screws from bottom edge of access panel.
2. Gently lower the access panel to disengage locators from bottom edge of front panel.
3. 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.
4. Disconnect wires from door switch.

   NOTE: Refer to model wiring diagram when rewiring door switch.
5. Set meter to read Ohms and apply meter probes on switch terminals 1 and 3 with door closed. You should get “zero” reading.
6. Apply probes to terminals 1 and 2 with door closed. The meter should read “infinite”.
7. Open door. Meter should read “infinite” between 1 and 3 and “zero” between 1 and 2.

Thermistor

1. While supporting the access panel, remove two screws from bottom edge of access panel.

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2. Gently lower the access panel to disengage panel locators from bottom edge of front panel.
3. Label and disconnect wires from thermistor.

   NOTE: Refer to wiring diagram when rewiring thermistor.

4. Set meter to read Ohms.
5. Apply meter probes to the thermistor terminals.
6. Meter should read that resitance is present (thermistor is not open).

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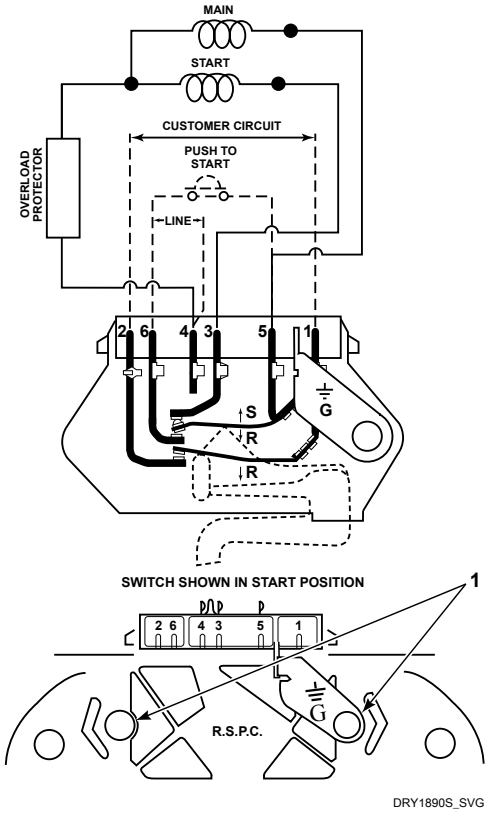
Internal Wiring of Dryer Motor Switch

WARNING

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

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

W001R1



1. Motor Switch Attaching Screws

Figure 20

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Adjustments

WARNING

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

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

W001R1

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

Leveling Legs

Refer to *Figure 21.*

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

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

WARNING

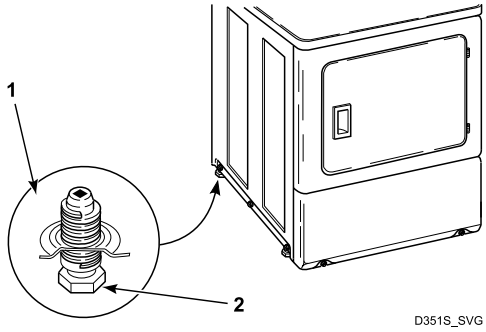
To reduce the risk of serious injury or death by carbon monoxide and other gases in gas dryers, carefully read and follow all instructions given in this section.

W005

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

2. 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



1. Dryer Base
2. Leveling Leg

Figure 21

Burner Flame (Gas Models)

1. While supporting the access panel, remove two screws from bottom edge of access panel.
2. Gently lower the access panel to disengage locators from bottom edge of front panel.
3. Set drying time to 60 minutes, if applicable.
4. Close the loading door. Start the dryer in a heat setting (refer to dryer's Operating Instructions). The dryer will start, the igniter will glow red, and the main burner will ignite.
5. Allow the dryer to operate for approximately five minutes, then loosen the air shutter lockscrew. Refer to *Figure 22* and *Figure 23.*
6. 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.
7. After proper flame is obtained, tighten air shutter lockscrew firmly. Refer to *Figure 22* and *Figure 23.*
8. Reinstall access panel and screws.

WARNING

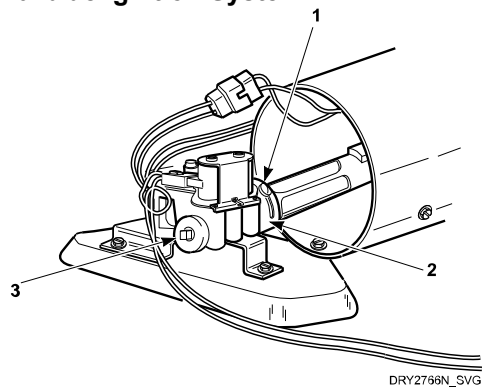
To reduce the risk of fire or serious injury, the access panel must be in place during normal operation.

W262

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

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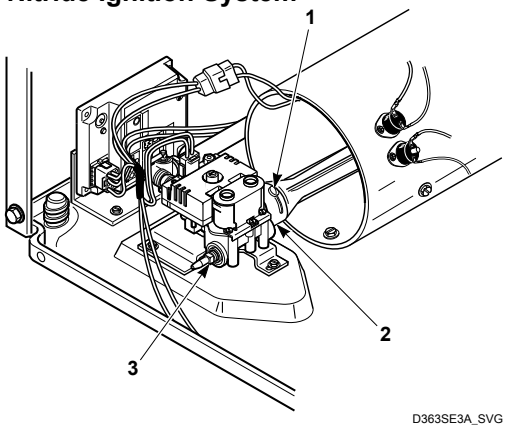
Silicon Carbide Ignition System



1. Air Shutter Lockscrew
2. Air Shutter
3. 1/8 inch Pipe Plug (For checking manifold pressure)

Figure 22

Silicon Nitride Ignition System

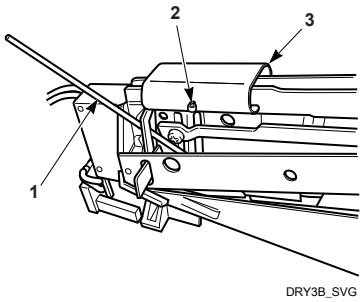


1. Air Shutter Lockscrew
2. Air Shutter
3. 1/8 inch Pipe Plug (For checking manifold pressure)

Figure 23

Cleaning Non-Electronic Coin Drop

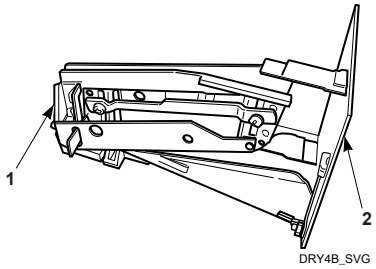
1. Disconnect electrical power to machine and drop.
2. Remove coin drop from machine.
3. If lint is preventing coins from rolling through coin drop, blow compressed air though coin entry and along the side of the coin drop. Refer to *Figure 24.*



1. Compressed Air
2. Cotter Pin
3. Metal Clip

Figure 24

4. Insert a coin through the coin drop. If coin does not roll through drop, continue with the following.
5. Remove cotter pin from top of drop. Refer to *Figure 24.* Save pin for reinstallation when cleaning is complete.
6. Move metal clip closer to sensor so that it comes off frame. Refer to *Figure 24.*
7. Remove coin return from coin drop frame. Refer to *Figure 25.*

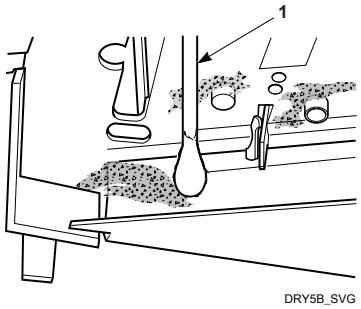


1. Coin Return
2. Coin Drop Frame

Figure 25

8. Check coin path in coin drop for lint and esidue. If lint or light residues are present, use a cotton swab to remove. If heavy residue is present, it may be necessary to first scrape off excessive residue and then use a cotton swab dipped in water or isopropyl alcohol (rubbing alcohol) to remove remainder of residue. Refer to *Figure 26.*

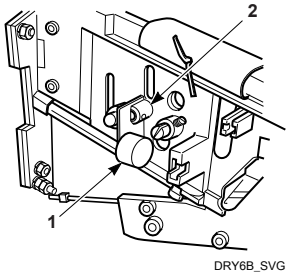
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1. Cotton Swab

Figure 26

9. Check coin return pendulum to verify it swings freely. If pendulum does not swing freely, spray pendulum pivot point with Teflon based lubricant and move pendulum back and forth two to three times. An additional application of Teflon based lubricant may be necessary to ensure that pendulum swings freely. Refer to *Figure 27.*

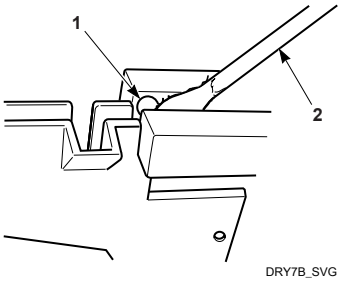


1. Pendulum
2. Pivot Point

Figure 27

10. Check coin drop sensor for dust or dirt on eyes. Wipe eyes with dry cotton swab. Refer to *Figure 28.*

IMPORTANT: DO NOT use isopropyl alcohol to clean electronic sensor or eyes.



1. Eyes
2. Dry Cotton Swab

Figure 28

11. Reinstall coin return on to coin drop frame.
12. Reinstall metal clip and slide towards coin insert slot. All cotter pin holes must line up.
13. Reinstall cotter pin.
14. Place drop on level surface to verify that coins follow correct path in drop. It may be necessary to lift drop to allow coin to follow through sensor.
15. Reinstall coin drop into machine.
16. Reconnect electrical power to machine and drop.
17. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

NOTE: If coin drop does not operate properly after above steps have been completed, corrosion of metal or vandalized components within coin drop may be preventing the coin drop from functioning correctly. Replace coin drop.

Cleaning Electronic Coin Drop

The electronic coin drop should be cleaned once a year. Clean the drop more often if it is exposed to high levels of residue or lint build-up. Follow the instructions below for cleaning the coin drop.

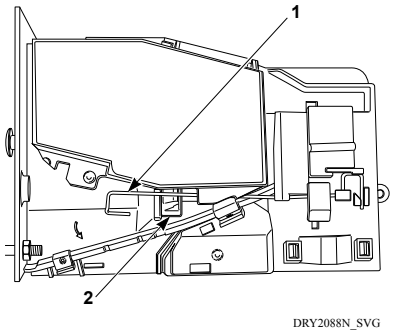
IMPORTANT: Never use abrasives or solvents to clean the drop which may damage the plastic material.

Coin Drops with Old-Style Spring

Refer to *Figure 35.*

1. Disconnect electrical power to machine and drop.
2. Remove coin drop from machine.
3. Open cover of coin drop.
   a. Move spring downward until cover catch is free. Refer to *Figure 35.*

   NOTE: Do not lift or overbend the spring in any direction.

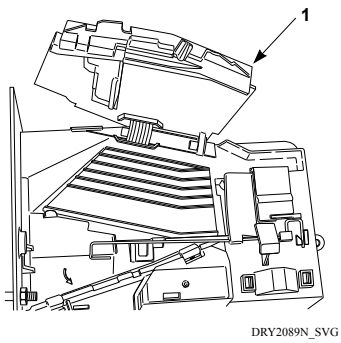


1. Spring
2. Catch

Figure 29

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b. Open cover for coin drop. Refer to *Figure 30.*



1. Cover

Figure 30

4. Clean the coin path with a soft brush and wipe exposed surfaces with an alcohol moistened cloth. Refer to *Figure 36.*

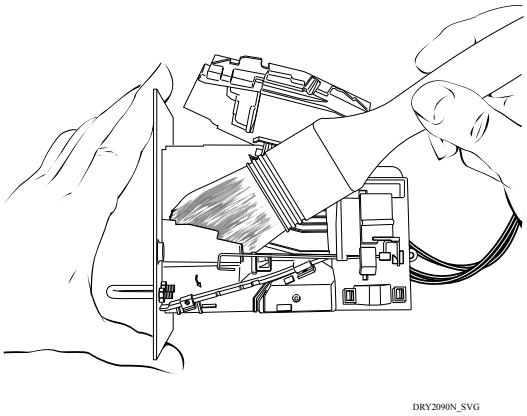
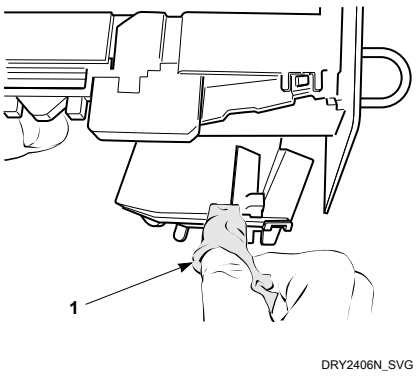


Figure 31

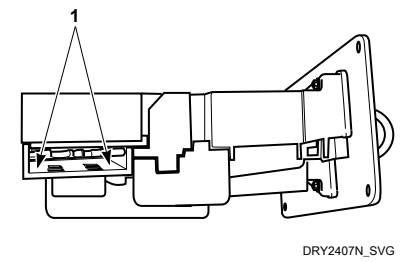
5. Clean residue from coin rail with an alcohol moistened cloth. Refer to *Figure 37.*



1. Alcohol Moistened Cloth

Figure 32

6. Clean light sensors with a soft brush or air spray duster. Refer to *Figure 39.*



1. Light Sensors

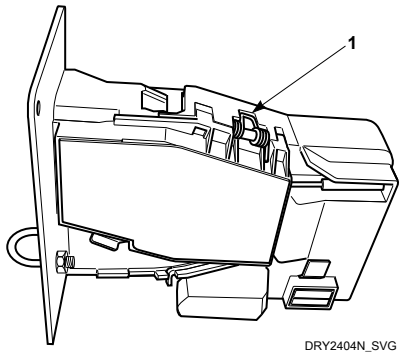
Figure 33

7. Close cover for coin drop.
8. Move spring back over cover catch.
9. Reinstall coin drop into machine.
10. Reconnect electrical power to machine and drop.
11. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

Coin Drops with New-Style Spring

Refer to *Figure 34.*

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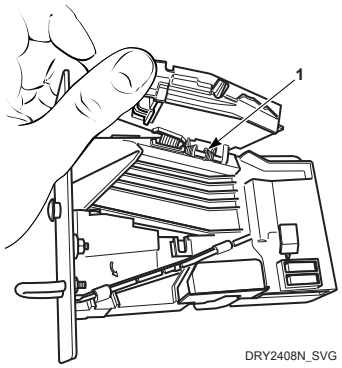
1. Spring

Figure 34

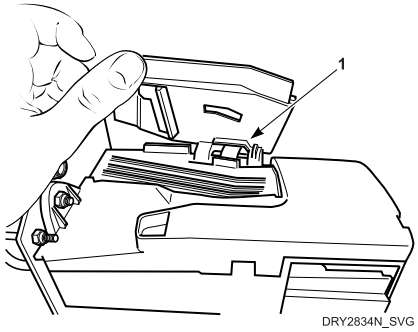
1. Disconnect electrical power to machine and drop.
2. Remove coin drop from machine.
3. Open cover of coin drop. Refer to *Figure 35.*

   NOTE: Do not overbend the spring by opening cover too far.

Pre-2018



2018 and Later



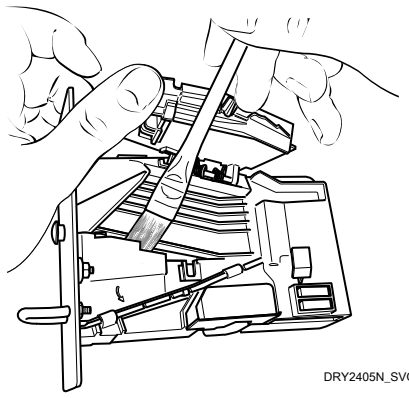
1. Spring

Figure 35

4. Clean the coin path with a soft brush and wipe exposed surfaces with an alcohol moistened lint-free cloth. Refer to *Figure 36.*

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Pre-2018



2018 and Later

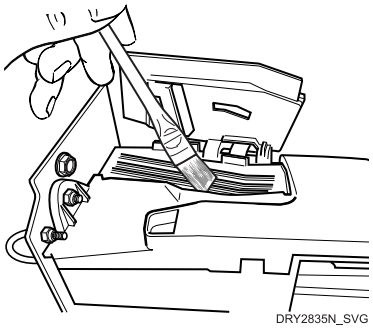
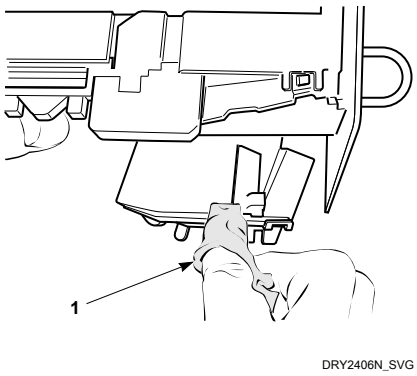


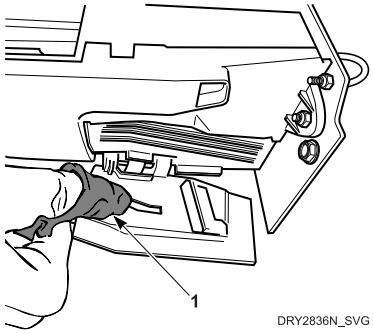
Figure 36

5. Clean residue from coin rail with an alcohol moistened lint-free cloth. Refer to *Figure 37.*

Pre-2018



2018 and Later



1. Alcohol Moistened Cloth

Figure 37

6. Clean residue from coin rail and pendulum inside flap with an alcohol-moistened soft brush. Refer to *Figure 38.*

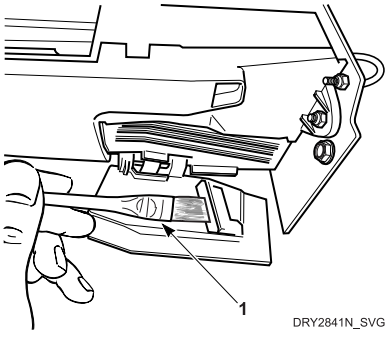
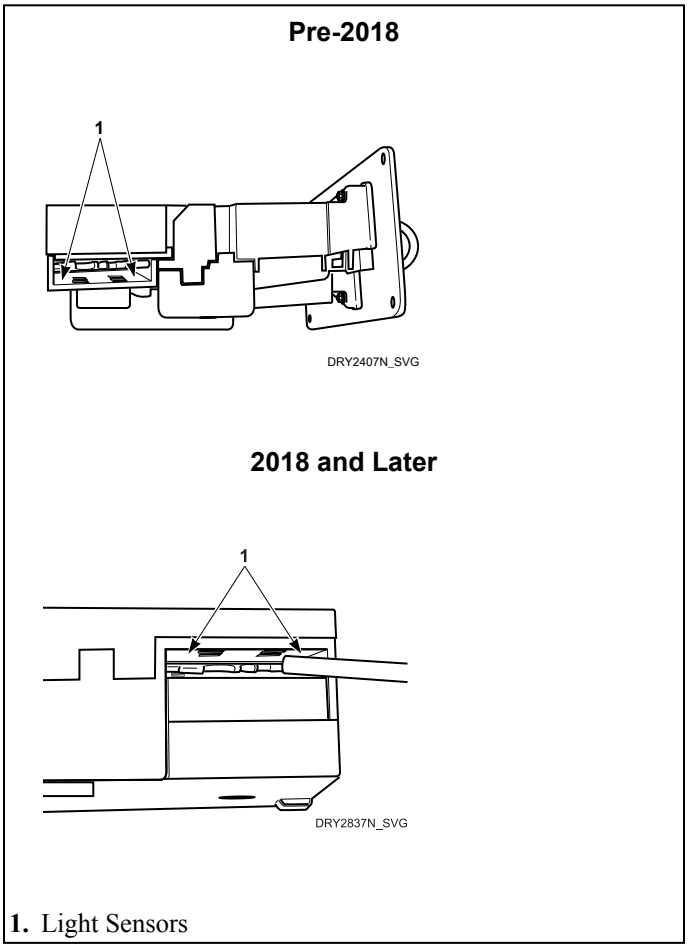


Figure 38

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7. Clean light sensors with a soft brush or air spray duster. Refer to *Figure 39*.



1. Light Sensors

Figure 39

8. Close cover for coin drop.
9. Reinstall coin drop into machine.
10. Reconnect electrical power to machine and drop.
11. Add a coin to drop to verify that coin drop is operating properly and that electrical connection is working properly.

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