Home Dryers

Refer to Page 6 for Model Numbers
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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 an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

⚠️ WARNING
Warning indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

⚠️ CAUTION
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

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.

WARNING

• Failure to install, maintain, and/or operate this machine according to the manufacturer’s instructions may result in conditions which can produce serious injury, death and/or property damage.
• Do not repair or replace any part of the machine 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 machine is properly grounded and to reduce the risk of fire, electric shock, serious injury, or death.

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.

WARNING

If you or an unqualified person perform service on your machine, 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.

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 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 product, be sure to mention model and serial numbers. Model and serial numbers are located on nameplate(s) as shown.
Section 2 Introduction

Model Identification

Information in this manual is applicable to these dryers:

ADE30RGS171TW01
ADE3LRGS171TW01
ADE41FSS171TN01
ADE4BFGS171TW01
ADE4BRGS171TW01
ADG30RGS111TW01
ADG3LRGS111TW01
ADG41FSS111TN01
ADG4BFGS111TW01
ADG4BRGS111TW01
AES17AWF
AES20AWF
AES28AWF
AES28AWF1500
AES68AWF
AES68AWF1500
AGS17AWF
AGS20AWF
AGS28AWF
AGS68AWF
ASE30FGW171TW01
ASG30FGW111TW01
CES68AWF
CES68AWF1500
CGS68AWF
KES18AWF
KES18AWF1500
KGS18AWF
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.

The dryer has an automatic drying feature. At cycle start, when fabric is wet and the temperature inside dryer is cool, the heat source (burner on gas models and heating element on electric models) is energized and heats the cylinder until operating temperature (as set on Fabric Selector) is reached. Power is not supplied to timer motor while heat source is energized during an automatic cycle. The heat source runs for longer periods of time in the beginning of the cycle, when it is working to reach the operating temperature, resulting in very little timer advancement. As the fabric dries and the cylinder heat is maintained, the heat source is powered less, allowing the timer to advance to cycle end. If dryer heats but timer does not advance, refer to Paragraph 1.
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.

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

1. **NO TIMER ADVANCE IN AUTOMATIC CYCLES**

   For a description of Automatic drying feature, refer to *SECTION 2*. If dryer heats but the timer does not advance, perform the following service procedures:

   **Electric Dryers**
   1. Remove any damp clothing from the dryer.
   2. Set the timer to an Automatic cycle. Set fabric selector switch to Regular.
   3. Remove the top 3 screws holding the control hood to the rear panel.
   4. Start dryer by pushing in timer knob.
   5. Using a volt/ohm meter set to AC voltage, measure the voltage across terminal “T” and terminal “M” on timer. Refer to *Figure 1*.

   6. Meter should read no voltage when the unit is first started and the dryer is still heating. Continue to monitor these points until the heating element has shut off (this will take several minutes even with an empty load). When the heating element shuts off, meter should read 120 Volts and the timer motor should advance the cycle.

   7. If meter does not read 120 Volts after the unit has reached proper operating temperature use meter to check for 120 AC Voltage between terminal “A” and terminal “N” (neutral) on the timer.

   8. If voltage is present, recheck voltage between “T” and “M”.

   9. If voltage is present, but timer does not advance, replace timer.

   10. If meter does not read 120 Volts at “A” and “N”, check the wire connections at the heating element and timer (blue/black wire). If the connections are good, UNPLUG dryer, remove wire at terminal “A” on timer and perform an ohms check on wire continuity between the heating element and timer. If the wire shows continuity, replace timer.
Gas Dryers

1. Remove any damp clothing from the dryer.
2. Set the timer to an Automatic cycle. Set fabric selector switch to Regular.
3. Remove the top 3 screws holding the control hood to the rear panel.
4. Start dryer by pushing in timer knob.
5. Using a volt/ohm meter set to AC voltage, measure the voltage across terminal “T” and terminal “N” on timer. Refer to Figure 1.
6. Meter should read no voltage when the unit is first started and the dryer is still heating. Continue to monitor these points until the burner has shut off (this will take several minutes even with an empty load). When the burner shuts off, meter should read 120 Volts and the timer motor should advance the cycle.
7. If voltage is present, but the timer does not advance, replace timer.
8. If meter does not read voltage, check the wiring continuity using ohm scale on meter. UNPLUG dryer. Remove Red/Black striped wire from terminal “T” on timer and perform an ohms check between the timer wire and the cycling thermostat terminal, where the Red/Black stripe wire attaches on the cycling thermostat (located on the blower assembly). If the wire shows continuity, reattach the wire on terminal “T” of timer. Replace cycling thermostat and check for proper operation.

Figure 1
2. DRYER MOTOR DOES NOT RUN

Dryer motor does not run.

- **Is power cord plugged in?**
  - No: Plug in cord.
  - Yes: Further troubleshooting steps.

- **Is electrical power off or fuse blown? Check laundry room for blown or loose fuse(s), or open circuit breaker(s). The dryer itself doesn't have an electrical fuse.**
  - Yes: Turn power on or replace fuse. Check both fuses for electric models.
  - No: Further troubleshooting steps.

- **Is loading door closed?**
  - No: Close door.
  - Yes: Further troubleshooting steps.

- **Is door switch inoperative?**
  - Yes: Test switch and replace if inoperative.
  - No: Further troubleshooting steps.

- **Are motor starting functions inoperative, does not start, or motor just hum?**
  - Yes: Refer to Adjustments section to check motor switch and motor windings.
  - No: Further troubleshooting steps.

- **Is motor dead, won’t run?**
  - Yes: Refer to Adjustments section to check motor switch, motor windings and main windings.
  - No: Further troubleshooting steps.

- **Is timer improperly set?**
  - Yes: Reset timer or try another cycle.
  - No: Further troubleshooting steps.

- **Is timer inoperative?**
  - Yes: Test timer and replace if inoperative.
  - No: Further troubleshooting steps.

*Continued on next page.*
DRYER MOTOR DOES NOT RUN (CONTINUED)

Has motor overload protector cycled?

- Yes: Wait two or three minutes for overload protector to reset. If protector cycles repeatedly, refer to next flowchart.
- No

Is motor centrifugal switch sticky or plugged with lint?

- Yes: Remove dust or lint and spray with a cleaner and lubricant.
- No

Is there a bind in motor bearing?

- Yes: Remove belt and determine if motor shaft will spin. Replace motor if shaft is locked up.
- No

Is motor wire harness connection block loose?

- No
3. DRYER STOPS IN CYCLE; QUILTS AFTER THE FIRST FEW LOADS; HAS A BURNING SMELL; CYCLES ON MOTOR THERMAL PROTECTOR

Dryer stops in cycle, quits after first few loads, has burning smell or cycles on motor thermal protector.

- Is voltage incorrect?
  - Yes
    - Refer to nameplate in door well for correct voltage. Refer to Installation Instructions (supplied with unit) for electrical requirements.
  - No

- Is clothes load too large?
  - Yes
    - Remove part of load. A normal washer load is a normal dryer load. Maximum load: dryer cylinder one half full of wet clothes.
  - No

- Is clothes cylinder binding?
  - Yes
    - 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.
  - No

- Is there broken, loose or incorrect wiring?
  - Yes
    - Refer to wiring diagram.
  - No

- Are motor switch functions inoperative?
  - Yes
    - Refer to Adjustments section to check switch and windings.
  - No

- Is there a short in motor winding?
  - Yes
    - Refer to Adjustments section to check switch and windings.
  - No

- Is a clothes item caught in fan?
  - Yes
    - Check fan for obstruction.
  - No
4. DRYER MOTOR RUNS BUT CYLINDER DOES NOT TURN

Dryer motor runs but cylinder does not turn.

- Is motor drive pulley loose? Yes → Tighten pulley.
  No → Is belt installed on pulley? Yes → Replace belt.
  No → Install belt.

- Is cylinder belt broken? Yes → Replace belt.
  No → 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.

- Is clothes cylinder binding? Yes → 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.
  No → Is idler lever spring broken, weak or disconnected? Yes → Replace or reconnect spring.
  No → Is belt routed on wrong side of idler lever? Yes → Reroute belt.
  No → Is there oil on cylinder? Yes → Wipe oil from cylinder.
  No

- Is belt "inside out"? Yes → Reinstall belt with ribbed surface against cylinder.
  No

- Is idler arm binding? Yes → Add grease between idler arm and motor mount. Replace idler arm and bolt if needed.
  No → Is dryer overloaded? Yes → Remove some laundry from dryer.
  No → Is the wrong motor installed? Yes → Refer to parts manual for correct motor part number.
  No → Is the wrong belt installed? Yes → Check belt part number against correct part number in parts manual and replace belt if needed.
  No → Is idler arm bent? Yes → Replace idler arm.
  No
5. DRYER MOTOR DOES NOT STOP

Dryer motor does not stop.

Is wiring to motor switch incorrect?  
Yes: Refer to wiring diagram.
No:

Is motor centrifugal switch sticky or plugged with lint?  
Yes: Remove dust or lint and spray with a cleaner and lubricant.
No:

Is door switch inoperative?  
Yes: Test switch and replace if inoperative.
No:

Is timer inoperative?  
Yes: Test timer and replace if inoperative.
6. DRYER RUNS ONLY WHEN DOOR IS OPEN

Dryer runs only when door is open.

Is door switch miswired?  
Yes: Rewire door switch. Refer to wiring diagram.
No: Replace door switch.
7. DRYER HEATING ASSEMBLY DOES NOT HEAT OR BURNER DOES NOT IGNITE

Dryer heating assembly does not heat or burner does not ignite.

Is exhaust system improper or inadequate?

Yes

Refer to Installation Instructions (supplied with unit) for exhaust requirements.

No

Is exhaust duct made of plastic or thin foil?

Yes

Replace with rigid or semi-rigid metal exhaust duct.

No

Is house fuse blown or circuit breaker tripped?

Yes

Check fuses or circuit breakers.

No

Is temperature selector switch set at FLUFF, or inoperative?

Yes

Reset or test switch and replace if inoperative.

No

Electric Models: Is heater assembly inoperative?

Yes

Test heater assembly and replace if cold Ohms do not read between 9 and 10.5 Ohms.

No

Electric Models: Is thermal fuse inoperative?

Yes

Test thermal fuse and replace if inoperative.

No

Continued on next page.

Is timer improperly set (set in a cool-down period, or a no heat cycle)?

Yes

Reset timer. Try another cycle.

No

Is limit thermostat inoperative?

Yes

Test thermostat and replace if inoperative.

No

Is drive motor switch inoperative?

Yes

Test switch and replace if inoperative.

No

Is exhaust duct made of plastic or thin foil?
DRYER HEATING ASSEMBLY DOES NOT HEAT OR BURNER DOES NOT IGNITE
(CONTINUED)

Gas Models: Is gas supply insufficient?
- Yes: Check gas shut-off valve in dryer and main gas line valve. Open partially closed gas shut-off valve or correct low gas pressure.
- No: Gas Models: Are gas valve coils inoperative?
  - Yes: Test coils and replace if inoperative. Refer to Dryer Test Procedures section.
  - No: Gas Models: Is sensor inoperative?
    - Yes: Test sensor and replace if inoperative.
    - No: Gas Models: Is igniter inoperative?
      - Yes: Test igniter and replace if inoperative. Refer to Dryer Test Procedures section.
      - No: Gas Models: Is gas flow in gas orifice restricted?
        - Yes: Clean out gas orifice.
        - No: Is cycling thermostat inoperative?
          - Yes: Test thermostat and replace if inoperative.
          - No: Is timer inoperative?
            - Yes: Test timer and replace if inoperative.
            - No: Is wiring broken, loose or incorrect?
              - Yes: Refer to wiring diagram.
              - No: No

Gas Models: Is harness properly connected to gas controls?
- Yes: No
- No: Gas Models: Is gas supply insufficient?
  - Yes: Check gas shut-off valve in dryer and main gas line valve. Open partially closed gas shut-off valve or correct low gas pressure.
  - No: Gas Models: Are gas valve coils inoperative?
    - Yes: Test coils and replace if inoperative. Refer to Dryer Test Procedures section.
    - No: Gas Models: Is sensor inoperative?
      - Yes: Test sensor and replace if inoperative.
      - No: Gas Models: Is igniter inoperative?
        - Yes: Test igniter and replace if inoperative. Refer to Dryer Test Procedures section.
        - No: Gas Models: Is gas flow in gas orifice restricted?
          - Yes: Clean out gas orifice.
          - No: Is cycling thermostat inoperative?
            - Yes: Test thermostat and replace if inoperative.
            - No: Is timer inoperative?
              - Yes: Test timer and replace if inoperative.
              - No: Is wiring broken, loose or incorrect?
                - Yes: Refer to wiring diagram.
                - No: No
8. IGNITER DOES NOT GLOW (GAS SUPPLY SUFFICIENT) – GAS DRYER MODELS

Gas dryer models: Igniter does not glow (gas supply sufficient).

Is there power to power leads on valve (pink and blue wires)?

- No: Check thermostats, motor switch and wiring.
- Yes:
  
  Has flame sensor failed with contacts open?
  
  - Yes: Replace sensor.
  
  - No:
    
    Is igniter broken or open?
    
    - Yes: Replace igniter.
9. BURNER IGNITES AND GOES OUT REPEATEDLY – GAS DRYER MODELS

Gas dryer models: Burner ignites and goes out repeatedly.

- Is exhaust system improper or inadequate? Yes → Refer to Installation Instructions (supplied with unit) for exhaust requirements.
  No → Is weather hood flapper restricted? Yes → Refer to Installation Instructions (supplied with unit) for exhaust requirements.
  No → Is burner heat holding sensor contacts open? Yes → Replace sensor or correct gas supply problem.
  No → Is gas supply insufficient? Yes → Check gas supply and pressure. Make sure gas shut-off valve is turned on.
  No → Is igniter cracked? Yes → Replace igniter and bracket.
  No → Are gas valve coils inoperative or intermittent? Yes → Check coils and replace appropriate coils. Refer to Dryer Test Procedures section.
10. IGNITER GLOWS BUT BURNER DOES NOT IGNITE – GAS DRYER MODELS

Gas dryer models: Igniter glows but burner does not ignite.

Did sensor fail in closed position?
  Yes → Replace sensor.
  No → Is secondary coil or holding coil open?
    Yes → Replace gas valve (in warranty) or replace coils (out of warranty). Refer to Dryer Test Procedures section.
    No → Is gas supply insufficient?
      Yes → Check gas supply and pressure. Make sure gas shut-off valve is turned on.
      No → Are igniter and bracket improperly installed on burner tube assembly?
        Yes → Loosen screw and properly position igniter and bracket on burner tube assembly.
        No → Is sensor improperly installed on burner housing?
          Yes → Loosen screw and properly position the sensor on the burner housing.
          No
11. DRYER HEATER ASSEMBLY OR BURNER SHUTS OFF PREMATURELY

Dryer heater assembly or burner shuts off prematurely.

Is exhaust system improper or inadequate? Yes
Refer to Installation Instructions (supplied with unit) for exhaust requirements.

No
Is weather hood flapper restricted? Yes
Refer to Installation Instructions (supplied with unit) for exhaust requirements.

No
Gas Models: Is gas supply insufficient? Yes
Check main gas line shut-off valve. Open partially closed gas shut-off valve or correct low pressure.

No
Gas Models: Is dryer properly equipped for type of gas used? Yes
Refer to "Gas Burner Conversion Procedures" supplied in gas burner conversion kit.

No
Gas Models: Is burner flame improperly adjusted? Yes
Adjust flame. Refer to Adjustments section.

No
Cycling off on limit thermostat? Yes
Momentarily connect a jumper wire across thermostat terminals. If heater element heats or burner ignites when jumper wire is connected, refer to next flowchart.

No
Gas Models: Is sensor contact closing? Yes
Replace sensor or adjust burner flame (refer to Adjustments section).

No
Is cycling thermostat inoperative? Yes
Test thermostat and replace if inoperative.

No
Is timer inoperative? Yes
Test timer and replace if inoperative.

No
Is wiring broken, loose or incorrect? Yes
Refer to wiring diagram.
12. DRYER HEATER ASSEMBLY OR BURNER REPEATEDLY CYCLES OFF ON LIMIT THERMOSTAT

Dryer heater assembly or burner repeatedly cycles off on limit thermostat.

- Is external exhaust system longer or providing greater restriction than recommended?
  - Yes: Refer to Installation Instructions (supplied with unit) for exhaust system requirements.
  - No: 
    - Is exhaust duct made of plastic or thin foil?
      - Yes: Replace with rigid or semi-rigid metal exhaust duct.
      - No: 
        - Is lint filter clogged?
          - Yes: Clean lint filter.
          - No: 
            - Is there lint in internal dryer ductwork?
              - Yes: Disassemble dryer ductwork and clean.
              - No: 
                - Is there lint in external exhaust system?
                  - Yes: Disassemble and clean exhaust system.
                  - No: 
                    - Is hinged damper on exhaust system weather hood not free to open?
                      - Yes: Free hinged damper or replace weather hood.
                      - No: 
                        - Is limit thermostat cycling at too low a temperature?
                          - Yes: Replace thermostat.
                          - No: 
                            - Continued on next page.
DRYER HEATER ASSEMBLY OR BURNER REPEATEDLY CYCLES OFF ON LIMIT THERMOSTAT (CONTINUED)

Continued from previous page.

Is there an air leak around loading door? (Door not sealing due to damaged seal or inoperative door catch)?

Yes: Replace seal or catch.

No

Is there an air leak at cylinder seal(s)?

Yes: Check and replace seal(s) if necessary.

No

Is there an air leak at blower seal?

Yes: Check and replace seal if necessary.

No

Is there an air leak at front panel seal?

Yes: Check and replace seal if necessary.

No
13. DRYER HEATER ASSEMBLY OR BURNER DOES NOT SHUT OFF

Dryer heater assembly or burner does not shut off.

- Is motor switch inoperative? (Must be in a heat setting.)
  - Yes: Test switch and replace if inoperative.
  - No:
    - Motor does not stop?
      - Yes: Refer to Dryer Motor Does Not Stop paragraph.
      - No:
        - Is wiring incorrect?
          - Yes: Refer to wiring diagram.
          - No:
            - Has heater assembly shorted?
              - Yes: Remove heater assembly and check for short.
              - No:
14. CLOTHES DO NOT DRY IN DRYER

Clothes do not dry in dryer.

Does heater assembly not heat or burner not ignite?

Yes

Refer to Dryer Heating Assembly Does Not Heat or Burner Does Not Ignite paragraph.

No

Is there too much water in articles being dried?

Yes

Remove excess water.

No

Is laundry load too large?

Yes

Remove part of load. A normal washer load is a normal dryer load. Maximum load: Dryer cylinder one half full of wet clothes.

No

Is laundry load too small?

Yes

Add one or two bath towels to load.

No

Is there excessive lint on lint filter?

Yes

Clean lint filter.

No

Is heat selector switch or timer inoperative?

Yes

Test and replace switch or timer if inoperative.

No

Is exhaust system improper or inadequate?

Yes

Refer to Installation Instructions (supplied with unit) for exhaust requirements.

No

Does heater assembly or burner shut off prematurely?

Yes

Refer to Dryer Heater Assembly or Burner Shuts Off Prematurely paragraph.

No

Gas Models: Is gas line pressure too high or too low?

Yes

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.

No

Is belt installed improperly (low RPM)?

Yes

Check for proper installation.
15. TIMER DOES NOT ADVANCE IN AUTOMATIC CYCLE

Timer does not advance in automatic cycle.

Is cycling thermostat inoperative?

Yes

Test thermostat and replace if inoperative.

No

Electric Models: Is resistor inoperative?

Yes

Test resistor and replace if inoperative.

No

Heater assembly does not heat or burner does not ignite?

Yes

Refer to Dryer Heating Assembly Does Not Heat or Burner Does Not Ignite paragraph.

No

Heater assembly or burner cycles off prematurely?

Yes

Refer to Dryer Heater Assembly or Burner Shuts Off Prematurely paragraph.

No

Is exhaust system improper or inadequate?

Yes

Refer to Installation Instructions (supplied with unit) for exhaust requirements.

No

Is large load drying?

Yes

Timer will not advance until the load is almost dry.

No

Is wiring broken, loose or incorrect?

Yes

Refer to wiring diagram.

No

Is timer motor inoperative?

Yes

Select a drying cycle and activate start switch. Rotate timer knob until signal sounds. Release timer knob. Signal should stop within ten minutes. If not, replace timer.

No

Are seals inoperative (air leaks)?

Yes

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. Gap between air duct and filter mounting.

No
16. CLOTHES ARE TOO HOT WHEN REMOVED FROM DRYER

Clothes are too hot when removed from dryer.

- Is exhaust system improper or inadequate? 
  - Yes: Refer to Installation Instructions (supplied with unit) for exhaust requirements.
  - No:

- Were clothes removed from dryer before cycle has completed? 
  - Yes: Allow the dryer to complete the cycle through the cool-down to the OFF position.
  - No:

- Is cycling thermostat inoperative? 
  - Yes: Test cycling thermostat and replace if inoperative.
  - No:

- Is timer inoperative (not allowing cool-down)? 
  - Yes: Test timer and replace if inoperative.
  - No:

- Are seals inoperative (air leaks)? 
  - Yes: 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. Gap between air duct and filter mounting.
  - No:

SWD1713S
17. EXCESSIVE CHATTERING OR VIBRATING NOISE IN DRYER

Excessive chattering or vibrating noise in dryer.

Is idler spring inoperative?

Yes

Remove lower access panel. Set dryer to normal cycle and allow it to heat to operating temperature. If the belt vibrates as it rotates around the cylinder, the idler arm is making the noise. Replace the idler spring.

No

Check blower fan for missing or cracked fan blades.
18. EXCESSIVE HUMMING OR WHISTLING NOISE IN DRYER

Excessive humming or whistling noise in dryer.

Is blower housing inoperative?

Yes

If the abnormal operating noise is loudest at the vent exit, the problem is originating from the blower housing. Replace the current housing and cover.

No

Check blower fan for missing or cracked fan blades.
Section 4
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.

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

19. LEVELING LEGS
   Refer to Figure 2.

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 2

Dryer Base

Leveling Leg
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.

20. BURNER FLAME (Gas Models)

   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. Set timer to 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 lock screw. Refer to Figure 3.
   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 lock screw firmly. Refer to Figure 3.
   h. 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.

NOTE: After the dryer has operated for approximately three minutes, exhaust air or exhaust pipe should be warm.
Section 5
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.

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.

21. TIMER CONTACTS
Refer to Figure 4.
   a. Disconnect wires from timer, except timer motor wires.

NOTE: Refer to appropriate wiring diagram when rewiring timer.
   b. Manually rotate timer out of “OFF” position and into cycle.
   c. Set test meter to read Ohms. The following readings should be found:
      (1) Motor circuit test –
          L1 and M = “zero” Ohms (closed)
      (2) Heat circuit test –
          L2 and H = “zero” Ohms (closed)
      (3) Timer motor test –
          T and M (electric models) or T and N (gas models) = approximately 2462-2714 Ohms or apply live power to timer motor terminals and motor should run.

NOTE: Timer Motor Resistance:
   120 Volt, 60 Hz    2,462 – 2,714 Ohms
   240 Volt          10,900 – 13,300 Ohms
   24 Volt           108 – 132 Ohms

   (4) Rotate timer to “cooldown” (5 minutes before “OFF”). “Infinite” (open) reading should be found between L2 and H.
   (5) 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 (electric models) or N (gas models) terminal.
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.

22. FABRIC SELECTOR SWITCH

NOTE: Refer to proper model wiring diagram when rewiring switch.

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

NOTE: Refer to proper model wiring diagram when reconnecting wires.

<table>
<thead>
<tr>
<th>FABRIC SELECTOR SWITCH – 4 Position</th>
<th>L1-1</th>
<th>L1-2</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Heat</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Delicate</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Perm. Press</td>
<td>–</td>
<td>X</td>
</tr>
<tr>
<td>Regular</td>
<td>–</td>
<td>X</td>
</tr>
<tr>
<td>X indicates closed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FABRIC SELECTOR SWITCH – 3 Position</th>
<th>L1-2</th>
<th>L1-3</th>
<th>L1-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Heat</td>
<td>–</td>
<td>X</td>
<td>–</td>
</tr>
<tr>
<td>Delicate</td>
<td>X</td>
<td>–</td>
<td>X</td>
</tr>
<tr>
<td>Perm. Press/Regular</td>
<td>X</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>X indicates closed</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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.

23. DRIVE MOTOR
Refer to Figure 5.
   a. Remove motor and exhaust assembly.
   b. Disconnect motor wire harness at motor disconnect block.

NOTE: Refer to wiring schematic, Section 6, for internal motor switch wires.

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

Figure 5
c. **Motor Switch** (Refer to *SECTION 6* 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.

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

- **Start Terminals**
  - Note: Disconnect terminal 5 wire (yellow or copper) from motor switch before testing start terminals.

- **Run Terminals**
  - Note: Reconnect terminal 5 wire (yellow or copper) to motor switch before testing run terminals.

- **Heater Circuit Terminals**
  - Note: Disconnect terminal 5 wire (yellow or copper) from motor switch before testing.

A. Continuity exists between switch terminal 5 and terminal 3 (black or copper wire).

- **NO**
  - YES

B. Manually depress actuator. Continuity broken between switch terminal 5 and terminal 3 (black or copper wire).

- **NO**
  - YES

C. Continuity broken between switch terminal 6 and terminal 5 (yellow or copper wire).

- **NO**
  - YES

D. Manually depress actuator. Continuity exists between switch terminal 6 and terminal 5 (yellow or copper wire).

- **NO**
  - YES

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**
  - YES

Motor switch checks O.K.
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.

**WARNING**

**d. Motor Windings** (Refer to SECTION 6 for Internal Wiring of the Dryer Motor Switch.)

- **Start Winding**
  - G. 1 – 2 Ohms between terminal 3 wire and orange or copper wire on the back of switch.
  - NO Inoperative start winding. Replace motor.
  - YES

- **Run Main Winding**
  - H. 1 – 2 Ohms between terminal 5 wire and orange or copper wire on the back of switch wire.
  - NO Inoperative run main winding. Replace motor.
  - YES

- **Protector**
  - I. Continuity exists between orange or copper wire on back of switch and brown or blue wire in terminal 4.
  - NO Inoperative protector. Replace motor.
  - YES

All motor windings check O.K.
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.

24. MOTOR SWITCH
   a. Remove motor and exhaust fan assembly.
   b. Remove the two motor switch attaching screws. Refer to Figure 6. Disconnect switch leads. Remove motor switch.
   c. 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.

   (1) 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 6.
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.

(2) **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 7.

d. Attach the thermal overload protector removed in Step “c” to the new motor switch.
e. Install new motor switch onto motor and reconnect motor switch leads removed in Step “b”. Refer to Figure 6.

f. Test motor switch by following the step-by-step procedures included in Paragraph 23.
g. 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.
25. BURNER SYSTEM OPERATION

(Gas Models – Refer to Figure 8.)

a. 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.

b. 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.

c. Burner Circuit
In approximately 30 seconds, the igniter attains ignition temperature and ignition is made. The heat 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.

d. 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 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 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 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.
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.

**WARNING**

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**26. ELECTRICAL CIRCUIT TO IGNITION SYSTEM (Gas Models)**

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. Close main gas shut-off valve. Refer to Figure 3.
d. Remove valve wire harness disconnect block from the holding and booster coil. Refer to Figure 9.
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. Figure 8.
  Meter should register line voltage in all Fabric settings, except NO HEAT which should read “zero” VAC.
g. If meter does not read line voltage in step “f”, check motor switch, thermostats, fabric switch, accumulator, or timer.

---

**27. GAS VALVE COILS CHECK (Gas Models)**

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. Close main gas shut-off valve. Refer to Figure 3.
d. Remove disconnect blocks from gas valve coils.
e. Set test meter to read Ohms and put meter probes to terminals shown in Figure 9, and in the following chart.

<table>
<thead>
<tr>
<th>COIL TOLERANCE READINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meter probes to terminals:</td>
</tr>
<tr>
<td>Holding Coil – Terminals 1 &amp; 2</td>
</tr>
<tr>
<td>Booster Coil – Terminals 1 &amp; 3</td>
</tr>
<tr>
<td>Secondary Coil – Terminals 4 &amp; 5</td>
</tr>
</tbody>
</table>

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.

---

28. SENSOR CHECK (Gas Models)
   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. Close main gas shut-off valve. Refer to Figure 3.
   d. Remove wires from sensor terminals.
   e. 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.

29. IGNITER CHECK (Gas Models)
   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. Close main gas shut-off valve. Refer to Figure 3.
   d. Disconnect igniter wires at disconnect block.
   e. Set test meter to read Ohms and put meter probes on terminals of igniter wires.
   f. Meter should read between 45 – 200 Ohms. Refer to Figure 10.

**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.
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.

### WARNING

#### 30. THERMAL FUSE (Electric Models)

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

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

c. Label and disconnect wires from thermal fuse.

*d. 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.*

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

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

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

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

c. Disconnect wires from heater assembly.

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

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

<table>
<thead>
<tr>
<th>Element Color Code</th>
<th>KW</th>
<th>Voltage/Hz.</th>
<th>Resistance Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>5</td>
<td>240 V 60 Hz.</td>
<td>10.39 ± .31 Ohms Cold</td>
</tr>
<tr>
<td>White</td>
<td>4.75</td>
<td>208 V 60 Hz.</td>
<td>8.2 ± .5 Ohms Cold</td>
</tr>
<tr>
<td>Orange</td>
<td>5.35</td>
<td>240 V 60 Hz.</td>
<td>9.72 ± .3 Ohms Cold</td>
</tr>
<tr>
<td>Purple</td>
<td>4.25</td>
<td>208 V 60 Hz.</td>
<td>9.27 ± .3 Ohms Cold</td>
</tr>
</tbody>
</table>

#### 32. CYCLING OR LIMIT THERMOSTAT

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

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

c. Label and disconnect wires from thermostat.

d. Set meter to read Ohms.

  (1) Apply meter probes to the thermostat terminals.

  (2) Meter should read “zero.”

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

33. DOOR SWITCH
   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 two screws holding bottom tabs on front panel to dryer side panels. Swing bottom of front panel away from dryer far enough to disengage hold-down clips and locators from cabinet top.
   d. Disconnect wires from door switch.

   NOTE: Refer to model wiring diagram when rewiring door switch.

   e. Set meter to read Ohms and apply meter probes on switch terminals 1 and 3 with door closed. You should get “zero” reading.
   f. Apply probes to terminals 1 and 2 with door closed. The meter should read “infinite”.
   g. Open door. Meter should read “infinite” between 1 and 3 and “zero” between 1 and 2.
Section 6
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.

Figure 11

Motor Switch Attaching Screws

SWITCH SHOWN IN START POSITION

PUSH TO START

CUSTOMER CIRCUIT

ORANGE/COPPER

MAIN

2 6 4 3 5 1

ORANGE/COPPER

Gordon/Brown

BLUE/BROWN

YELLOW/COPPER

PULL TO

LINE

OVERLOAD

PROTECTOR

START

ATTACHING SCREWS

S

G

P001R1