ELECTRIC & GAS DRYER SERVICE MANUAL

CAUTION
READ THIS MANUAL CAREFULLY IN ORDER TO PROPERLY DIAGNOSE PROBLEMS AND TO SAFELY PROVIDE QUALITY SERVICE ON THESE DRYERS.

MODEL : DLE2512W/DLG2522W
DLE2514W/DLG2524W
DLE2515S / DLG2525S
TD-V10062G
IMPORTANT SAFETY NOTICE

The information in this service guide is intended for use by individuals possessing skill and experience in electrical, electronic, and mechanical appliance repair. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

WARNING!

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

RECONNECT ALL GROUNDING DEVICES

If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

WHAT TO DO IF YOU SMELL GAS:

- Do not try to light a match, or cigarette, or turn on any gas or electrical appliance.
- Do not touch any electrical switches. Do not use any phone in your building.
- Clear the room, building or area of all occupants.
- Immediately call your gas supplier from a neighbor’s phone. Follow the gas supplier’s instructions carefully.
- If you cannot reach your gas supplier, call the fire department.

IMPORTANT

Electrostatic Discharge (ESD)
Sensitive Electronics

ESD problems are present everywhere. ESD may damage or weaken the electronic control assembly. The new control assembly may appear to work well after repair is finished, but failure may occur at a later date due to ESD stress.

- Use an anti-static wrist strap. Connect wrist strap to green ground connection point or unpainted metal in the appliance.
- OR -
- Touch your finger repeatedly to a green ground connection point or unpainted metal in the appliance.
- Before removing the part from its package, touch the anti-static bag to a green ground connection point or unpainted metal in the appliance.
- Avoid touching electronic parts or terminal contacts; handle electronic control assembly by edges only.
- When repackaging failed electronic control assembly in anti-static bag, observe above instructions.
SPECIFICATIONS

Name: Electric and Gas Dryer

Power supply: Please refer to the rating label regarding detailed information.

Size: 27 X 29.6 X 38.7 (inch)

Dryer capacity: IEC 7.0 cu.ft.

Weight: 126(lbs)

Specifications are subject to change by manufacturer.

ACCESSORIES

Dryer rack (1 each)

Stacking kit (1 each)

Pedestal (1 each)

Purchased Separately

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<table>
<thead>
<tr>
<th>ITEM</th>
<th>DLE2512W/DLG2522W/TD-V10062G</th>
<th>DLE2514W/DLG2524W</th>
<th>DLE2515S/DLG2525S</th>
<th>REMARK</th>
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</thead>
<tbody>
<tr>
<td><strong>Material &amp; Finish</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Blue White</td>
<td></td>
<td>Titansium</td>
<td></td>
</tr>
<tr>
<td>Top Plate</td>
<td>Painted</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Door Trim</td>
<td>Silver</td>
<td>Blue White</td>
<td>Chrom</td>
<td></td>
</tr>
<tr>
<td><strong>POWER SUPPLY</strong></td>
<td>120V/240V 60Hz (26A)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>ELECTRICITY CONSUMPTION</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MOTOR</td>
<td>250W (4.5A)</td>
<td></td>
<td>AC 120V</td>
<td></td>
</tr>
<tr>
<td>HEATER</td>
<td>5400W (22.5A)</td>
<td></td>
<td>AC 240V (ELECTRIC MODEL)</td>
<td></td>
</tr>
<tr>
<td>LAMP</td>
<td>15 W (125mA)</td>
<td></td>
<td>AC 120V</td>
<td></td>
</tr>
<tr>
<td>GAS VALVE</td>
<td>13 W (110mA) x 2</td>
<td></td>
<td>AC 120V (GAS MODEL)</td>
<td></td>
</tr>
<tr>
<td><strong>CONTROL TYPE</strong></td>
<td>Electronic</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DRUM CAPACITY</strong></td>
<td>7.0 cu.ft.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Weight (lbs) - Net/Gross</td>
<td>124/144</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>No. of Programs</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of Dry Options</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>No. of Temperature Controls</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. of Dry Levels</td>
<td>3</td>
<td></td>
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<td></td>
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<tr>
<td>Sound levels</td>
<td>High/Low/Off</td>
<td></td>
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<td></td>
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<tr>
<td><strong>Sensor</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Moisture</td>
<td>Available</td>
<td></td>
<td>Electrode sensor</td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>Available</td>
<td></td>
<td>Thermistor</td>
<td></td>
</tr>
<tr>
<td><strong>Reversible Door</strong></td>
<td>Available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drum</td>
<td>Double Coated Steel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dryer Rack</td>
<td>Available</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Child Lock</td>
<td>Available</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Interior Light</td>
<td>Available</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Product (WxHxD)</strong></td>
<td>27” x 38 3/4” x 29 5/8”</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Packing (WxHxD)</strong></td>
<td>29 1/2” x 44 3/4” x 30 3/4”</td>
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</tbody>
</table>
Dryer Rack Installation Instructions

1 Open the door. Hold the dryer rack with both hands.
2 Put the dryer rack into the drum
3 Check and be sure that the front of the rack is properly seated behind the lint filter.
Stacking Kit Installation Instructions

To ensure safe and secure installation, please observe the instructions below.

**WARNING**

Do not attempt this alone!

At least two people are required to lift and position the dryer on top of a washing machine!

Failure to heed this warning can result in serious physical injury and damage to the appliance.

1. Place the washer firmly on a stable, even and solid floor as product installation instructions describe in the owner’s manual.

2. Peel the protective paper from the tape on the side bracket.

3. Fit the side bracket firmly to the side of the top plate by attaching the double-faced tape to the top plate as picture shown.

4. Secure the side bracket to the washer with a screw on the back of the bracket. Repeat Steps 2, 3, & 4 for the other side.

5. Place the dryer on top of the washer by placing the legs as shown. Be careful not to pinch fingers between the washer and dryer. Slide the dryer back against the stop on the side rail.

6. Insert the front rail of the stacking kit. Push the front rail back against the stops on the side brackets.

7. Screw both sides of the front rail to the side brackets.

- Do not use a stacking kit with a gas dryer in potentially unstable conditions like a mobile home.
Pedestal Installation Instructions

※ For washer, dryer, and combo LG 27"

1. Remove pedestal, installation hardware, and instructions from the shipping carton.

2. Position the dryer on top of the pedestal.

3. Remove the paper from the bracket.

   NOTE: That the Pedestal hardware packet may include 2 sets of side brackets. Be sure to use the brackets marked for the dryer.

4. After removing the protective covering from the adhesive surface, align the screw holes in the brackets with the matching holes in the pedestal base and press and press the brackets against the base and the dryer.

5. Be sure to press the adhesive parts of the brackets firmly to the appliance.

6. Install the eight (8) screws (supplied) to attach the brackets to the pedestal.

7. Move the dryer to the desired place.

   NOTE: The appliance and pedestal assembly must be placed on a solid and level floor for proper operation. Adjust the legs of the appliance and pedestal by turning with a wrench. Then, adjust the lock unit toward the pedestal while holding the pedestal leg using a wrench.
Electric Dryer Only

Review the following options to determine the appropriate electrical connection for your home:

| 4-wire receptacle  
(NEMA type 14-30R) |
|---------------------|

Use the instructions under option 1 if your home has a 4-wire receptacle (NEMA type 14-30R).

| 3-wire receptacle  
(NEMA type 10-30R) |
|---------------------|

Use the instructions under option 2 or 3 if your home has a 3-wire receptacle (NEMA type 10-30R). Use option 2 if local codes and ordinances permit the connection of a chassis ground to the neutral connector. If this is not permitted, use option 3.

**4-wire connection: Direct wire**

**Important**: use 4-wire connection in the places such as mobile homes and areas where 3-wire connections is not available. Prepare minimum 5ft (1.52m) of length in order for dryer to be replaced.

First, peel 5 inch (12.7cm) of covering material from end. Make a 5 inch of ground wire bared. After cutting 1½ inch (3.8cm) from 3 other wires. peel insulation back 1inch (2.5cm). Make ends of 3 wires a hook shape.

Then, put the hooked shape end of the wire under the screw of the terminal block(hooked end facing rightward) and pinch the hook together and screw tightly.

1. Connect neutral wire (white) of power cord to center terminal block screw.
2. Connect red and black wire to the left and right terminal block screws.
3. Connect ground wire (green) of power cord to external ground screw and move neutral ground wire of appliance and connect it to center screw.
4. Make sure that the strain relief screw is tightened. and be sure that all terminal block nuts are on tight and power cord is in right position.

<table>
<thead>
<tr>
<th>4-wire direct</th>
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</thead>
</table>

If this type is available at your home, you will be connecting to a fused disconnect or circuit breaker box.

<table>
<thead>
<tr>
<th>3-wire direct</th>
</tr>
</thead>
</table>

If this type is available at your home, you will be connecting to a fused disconnect or circuit breaker box.
3-wire connection: Direct wire

**Important:** use 3-wire connection in the places such as mobile homes and areas where 3-wire connections is not available.

Prepare minimum 5ft (1.52m) of length in order for dryer to be replaced.

First, peel 3 1/2 inch (8.9cm) of covering material from end and bare 1 inch from the ends.

Then, put the hooked shape end of the wire under the screw of the terminal block (hooked end facing rightward) and pinch the hook together and screw tightly.

1. Connect neutral wire (white) of power cord to center terminal block screw.
2. Connect red and black wire to the left and right terminal block screws.
3. Make sure that the strain relief screw is tightened and be sure that all terminal block nuts are on tight and power cord is in right position.

Option 1: 4-wire connection with a Power supply cord.

- If your local codes or ordinances do not allow the use of a 3 wire connection, or you are installing your dryer in a mobile home, you must use a 4-wire connection.

![Diagram of 4-wire connection](image)

1. Connect the neutral wire (white) of the power cord to the center terminal block screw.
2. Connect the red and black wires to the left and right terminal block screws.
3. Connect the ground wire (green) of the power cord to the external ground screw. Remove the neutral ground wire of appliance and connect it to center screw.
4. Make sure that the strain relief screw is tightened and that all terminal block nuts are tight and the power cord is in the right position.
Option 2: 3-Wire Connection with a Power Supply Cord

If your local codes or ordinances permit the connection of a frame-grounding conductor to the neutral wire, use these instructions. If your local codes or ordinances do not allow the connection of a frame-grounding conductor to the neutral wire, use the instructions under Section 3: Optional 3-wire connection.

1. Connect the neutral (white or center) wire (B) to the center, silver colored, screw (A) and tighten securely.
2. Connect the other two power cord wires (red and black) to the left and right terminal block screws and tighten securely.
3. Tighten the strain relief screws (C) securely.

Option 3: Optional 3-wire connection.

- If your local codes or ordinances do not allow the connection of a frame-grounding conductor to the neutral wire, use the instructions under this section.

1. Remove the appliance ground wire (D) (green) from the external ground connector screw and reconnect it, together with the center, white, neutral wire (E) to the center, silver colored, terminal block screw.
2. Connect the other two power cord wires (red and black) to the left and right terminal block screws and tighten securely.
3. Tighten the strain relief screws securely.
4. Connect an independent ground wire (F) from the external ground connector screw to a proper ground. (The ground wire must be long enough to allow the appliance to be moved, if necessary, for service or cleaning.)
3-2. Connect Gas Supply Pipe (Gas Dryer ONLY)

For further assistance, refer to section on **Gas Requirements**.

1. Make certain your dryer is equipped for use with the type of gas in your laundry room. Dryer is equipped at the factory for Natural Gas with a 3/8” N.P.T. gas connection.
2. Remove the shipping cap from the gas connection at the rear of the dryer. Make sure you do not damage the pipe thread when removing the cap.
3. Connect to gas supply pipe using a new flexible stainless steel connector.
4. Tighten all connections securely. Turn on gas and check all pipe connections (internal & external) for gas leaks with a non-corrosive leak detection fluid.
5. For L.P. (Liquefied Petroleum) gas connection, refer to section on Gas Requirements.

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1. New Stainless Steel Flexible Connector - Use only if allowed by local codes (Use Design A.G.A. Certified Connector)
2. 1/8” N.P.T. Pipe Plug (for checking inlet gas pressure)
3. Equipment Shut-Off Valve-Installed within 6’ (1.8 m) of dryer
4. Black Iron Pipe
   - Shorter than 20’ (6.1 m) - Use 3/8” pipe
   - Longer than 20’ (6.1 m) - Use 1/2” pipe
5. 3/8” N.P.T. Gas Connection
## DRYER CYCLE PROCESS

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<tr>
<th>Cycle</th>
<th>Default</th>
<th>Conditions of operation and termination</th>
</tr>
</thead>
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<td></td>
<td>Temperature</td>
<td>Dry Level</td>
</tr>
<tr>
<td>Sensor Dry*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COTTON/TOWELS</td>
<td>MID HIGH (Normal)</td>
<td>55min</td>
</tr>
<tr>
<td>NORMAL</td>
<td>MEDIUM (Normal)</td>
<td>41min</td>
</tr>
<tr>
<td>DELICATES</td>
<td>LOW (Normal)</td>
<td>32min</td>
</tr>
<tr>
<td>Manual Dry**</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SPEED DRY</td>
<td>(HIGH) -</td>
<td>25min</td>
</tr>
<tr>
<td>AIR DRY</td>
<td>- -</td>
<td>30min</td>
</tr>
</tbody>
</table>

* Sensor dry: “Dry Level” is set by users.

** Manual dry: “Temperature control” is set by users.

Default settings can be adjusted by users.
## COMPONENT TESTING INFORMATION

**CAUTION** When checking the Component, be sure to turn the power off, and do voltage discharge sufficiently.

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<tr>
<th>Component</th>
<th>Test Procedure</th>
<th>Check result</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Thermal cut off</td>
<td>Measure resistance of terminal to terminal</td>
<td>If thermal fuse is open must be replaced</td>
<td>• Heater case - Safety&lt;br&gt;• Electric type</td>
</tr>
<tr>
<td></td>
<td>① Open at 266 ± 12°F (130 ± 7°C)</td>
<td>① Resistance value ( \geq \infty )</td>
<td></td>
</tr>
<tr>
<td></td>
<td>② Auto reset 31°F (35°C)</td>
<td>② Continuity (250°F ( \downarrow )) &lt; 1Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Same shape as Outlet Thermostat.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Hi limit Thermostat</td>
<td>Measure resistance of terminal to terminal</td>
<td>① Resistance value ( \geq \infty )</td>
<td>• Heater case - Hi limit&lt;br&gt;• Electric type</td>
</tr>
<tr>
<td>(Auto reset)</td>
<td>① Open at 257 ± 9°F (125 ± 5°C)</td>
<td>② Resistance value &lt; 5Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td>② Close at 221 ± 9°F (105 ± 5°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Outlet Thermostat</td>
<td>Measure resistance of terminal to terminal</td>
<td>① Resistance value ( \geq \infty )</td>
<td>• Blow housing - Safety&lt;br&gt;• Electric type</td>
</tr>
<tr>
<td>(Auto reset)</td>
<td>① Open at 185 ± 9°F (85 ± 5°C)</td>
<td>② Resistance value &lt; 5Ω</td>
<td></td>
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<tr>
<td></td>
<td>② Close at 149 ± 9°F (65 ± 5°C)</td>
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<td></td>
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<tr>
<td></td>
<td>Same shape as Thermal cut off.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Lamp holder</td>
<td>Measure resistance of terminal to terminal</td>
<td>Resistance value: 80Ω ~ 100Ω</td>
<td></td>
</tr>
<tr>
<td>5. Door switch</td>
<td>Measure resistance of the following terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>① Door switch knob: open&lt;br&gt;① Terminal: “COM” - “NC” (1-3)</td>
<td>① Resistance value &lt; 1Ω&lt;br&gt;② Resistance value ( \geq \infty )</td>
<td>The state that Knob is pressed is opposite to Open condition.</td>
</tr>
<tr>
<td></td>
<td>② Terminal: “COM” - “NO” (1-2)</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>② Door switch push: push&lt;br&gt;① Terminal: “COM” - “NC” (1-3)</td>
<td>① Resistance value ( \geq \infty )&lt;br&gt;② Resistance value &lt; 1Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td>② Terminal: “COM” - “NO” (1-2)</td>
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<td></td>
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<tr>
<td>6. Idler switch</td>
<td>Measure resistance of the following terminal: “COM - NC”</td>
<td>1. lever open&lt;br&gt;① Resistance value &lt; 1Ω&lt;br&gt;2. Lever push (close)&lt;br&gt;② Resistance value ( \geq \infty )</td>
<td></td>
</tr>
<tr>
<td>Component</td>
<td>Test Procedure</td>
<td>Check result</td>
<td>Remark</td>
</tr>
<tr>
<td>------------------</td>
<td>--------------------------------------------------------------------------------</td>
<td>--------------------------------------------------</td>
<td>----------------------------</td>
</tr>
<tr>
<td>7. Heater</td>
<td>Measure resistance of the following terminal</td>
<td>① Resistance value: 10Ω</td>
<td>• Electric type</td>
</tr>
<tr>
<td></td>
<td>① Terminal: 1 (COM) - 2</td>
<td>② Resistance value: 10Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td>② Terminal: 1 (COM) - 3</td>
<td>③ Resistance value: 20Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td>③ Terminal: 2 - 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. Thermistor</td>
<td>Measure resistance of terminal to terminal</td>
<td>Resistance value: 10Ω</td>
<td>• Heater case -</td>
</tr>
<tr>
<td></td>
<td>Temperature condition:</td>
<td></td>
<td>Hi limit</td>
</tr>
<tr>
<td></td>
<td>58°F ~ (10~40°C)</td>
<td></td>
<td>• Electric type</td>
</tr>
<tr>
<td></td>
<td>58°F ~ 104F (10~40°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. Motor</td>
<td>• See Page 13</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. Gas valve</td>
<td>Measure resistance of the following terminal</td>
<td>① Resistance value: &gt; 1.5 kΩ</td>
<td>• Gas type</td>
</tr>
<tr>
<td></td>
<td>① Valve 1 terminal</td>
<td>② Resistance value: &gt; 1.5~2.5 kΩ</td>
<td></td>
</tr>
<tr>
<td></td>
<td>② Valve 2 terminal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. Igniter</td>
<td>Measure resistance of terminal to terminal</td>
<td>Resistance value: 100~800Ω</td>
<td>• Gas type</td>
</tr>
<tr>
<td>12. Frame Detect</td>
<td>Measure resistance of terminal to terminal</td>
<td>① Resistance value $\rightarrow \infty$</td>
<td>• Gas type</td>
</tr>
<tr>
<td></td>
<td>① Open at 370°F ((Maximum)</td>
<td>② Resistance value &lt; 1Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td>② Close at 320°F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Component</td>
<td>Test Procedure</td>
<td>Check result</td>
<td>Remark</td>
</tr>
<tr>
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</tr>
<tr>
<td><strong>13. Outlet Thermostat</strong>&lt;br&gt;(Auto reset)</td>
<td>Measure resistance of terminal to terminal&lt;br&gt;① Open at 203 ± 7°F (95 ± 5°C)&lt;br&gt;② Close at 158 ± 9°F (70 ± 5°C)</td>
<td>① Resistance value $\approx \infty$&lt;br&gt;② Continuity &lt; 1Ω</td>
<td>• Gas type&lt;br&gt;• Gas funnel</td>
</tr>
<tr>
<td>• Check Top Marking: N95</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>13. Outlet Thermostat</strong>&lt;br&gt;(Manual reset)</td>
<td>Measure resistance of terminal to terminal&lt;br&gt;① Open at 212 ± 12°F (100 ± 7°C)&lt;br&gt;② Manual reset</td>
<td>If thermal fuse is open must be replaced&lt;br&gt;① Resistance value $\approx \infty$&lt;br&gt;② Continuity &lt; 1Ω</td>
<td>• Gas type&lt;br&gt;• Gas funnel</td>
</tr>
<tr>
<td>• Check Top Marking: N100</td>
<td></td>
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</tbody>
</table>
NOTE
When checking Component, be sure to turn Power off, then do voltage discharge sufficiently.

- Contact On / Off by Centrifugal Switch

<table>
<thead>
<tr>
<th>Terminal No</th>
<th>Resistance</th>
<th>Mode</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2 ~ 3Ω</td>
<td>Motor</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Motor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 ~ 5Ω</td>
<td>Motor</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt; 1Ω</td>
<td>Heater (Electric Models)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>&lt; 1Ω</td>
<td>Gas Valve (Gas Models)</td>
<td></td>
</tr>
</tbody>
</table>

STOP MODE
(When Motor does not operate)

RUN MODE
(Motor operates)

Centrifugal switch

Centrifugal switch
(Pull Drive forward)
## CONTROL LAY-OUT

### PWB ASSEMBLY DISPLAY LAY-OUT

![Diagram of PWB Assembly Display Lay-Out]

### MODEL DISPLAY AS DIAGNOSTIC TEST

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OPTION PART</th>
<th>LED DISPLAY</th>
<th>P/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLE2512W</td>
<td>X</td>
<td>X</td>
<td>18:HO 6871EC1120A</td>
</tr>
<tr>
<td>DLE2514W</td>
<td>X</td>
<td>X</td>
<td>18:HO 6871EC1120A</td>
</tr>
<tr>
<td>DLE2515S</td>
<td>X</td>
<td>X</td>
<td>18:HO 6871EC1120A</td>
</tr>
<tr>
<td>DLG2522W</td>
<td>X</td>
<td>O</td>
<td>19:HO 6871EC1120B</td>
</tr>
<tr>
<td>DLG2524W</td>
<td>X</td>
<td>O</td>
<td>19:HO 6871EC1120B</td>
</tr>
<tr>
<td>DLG2525S</td>
<td>X</td>
<td>O</td>
<td>19:HO 6871EC1120B</td>
</tr>
<tr>
<td>TD-V10062G</td>
<td>X</td>
<td>O</td>
<td>19:HO 6871EC1120D</td>
</tr>
</tbody>
</table>

### PWB ASSEMBLY LAY-OUT

![Diagram of PWB Assembly Lay-Out]
ELECTRIC DRYER WIRING DIAGRAM

GAS DRYER WIRING DIAGRAM
### ACTIVATING THE DIAGNOSTIC TEST MODE

1. Unit must be in Standby (unit plugged in, display off)
2. Press **POWER** while pressing **MORE TIME**, and **LESS TIME** simultaneously.

<table>
<thead>
<tr>
<th>Pressing the START/PAUSE button</th>
<th>CHECKING ACTION</th>
<th>DISPLAY</th>
<th>CHECKING POINT</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>Electric control &amp; Temperature sensor</td>
<td><img src="image" alt="18:40" /></td>
<td>Won’t power up Defective LED</td>
<td>See test 1 Display: See page</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="LE1" /></td>
<td>Thermistor open</td>
<td>See test 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td><img src="image" alt="LE2" /></td>
<td>Thermistor close</td>
<td></td>
</tr>
<tr>
<td>Once</td>
<td>Motor</td>
<td><img src="image" alt="70 ~ 239" /></td>
<td>Displays Moisture Sensor Operation: If moisture sensor is contacted with damp cloth. The display number is below 180, in normal condition.</td>
<td>See test 3</td>
</tr>
<tr>
<td>Twice</td>
<td>■ ELECTRIC TYPE Motor + Heater 1 (2700W) ■ GAS TYPE Motor + Valve</td>
<td><img src="image" alt="Current Temp." /></td>
<td>■ ELECTRIC TYPE: Heater runs ■ GAS TYPE: GAS Valve runs (Display the Temperature of Inside drum.)</td>
<td>Gas valve See test 7</td>
</tr>
<tr>
<td>3 times</td>
<td>■ ELECTRIC TYPE Motor + Heater 1 +Heater 2 (5400W) ■ GAS TYPE Motor+Valve</td>
<td><img src="image" alt="Current Temp." /> (5 ~ 70)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4 times</td>
<td>Control Off</td>
<td><img src="image" alt="Auto Off" /></td>
<td>Door switch</td>
<td>See test 6</td>
</tr>
<tr>
<td>During check, If the door is open.</td>
<td>Motor &amp; Heater Off + Lamp On + Buzzer beeps seven times</td>
<td><img src="image" alt="dE" /></td>
<td></td>
<td></td>
</tr>
<tr>
<td>During check, If the door is closed.</td>
<td>Motor on &amp; Heater Off + Lamp Off</td>
<td><img src="image" alt="70 ~ 239" /></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **ELECTRIC TYPE**: Heater runs
- **GAS TYPE**: GAS Valve runs (Display the Temperature of Inside drum.)

1. This TEST should be used for Factory test /Service test. Do not use this DIAGNOSTIC TEST other than specified.
2. Activating the Heater manually with the Door open may trip the Thermostat attached to the Heater, therefore do not activate it manually. (Do not press the door switch to operate the heater while the door is open.)
## Test 1  120VAC Electrical supply

<table>
<thead>
<tr>
<th>Caution</th>
<th>When measuring power, be sure to wear insulated gloves, to and avoid an electric shock.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trouble Symptom</strong></td>
<td>No power was applied to Controller. (LED, Display off)</td>
</tr>
<tr>
<td><strong>Measurement Condition</strong></td>
<td>With Dryer Power On; Connector linked to Controller.</td>
</tr>
</tbody>
</table>

### Procedure

1. **Check the outlet, is the voltage 110V ~ 125V AC?**
   - **NO**
     - Check the fuse or circuit breaker.
   - **YES**

2. **Check if the voltage measured between Connector RD3-③ (Black) linked to the Controller and WH3-① (White) is 110V ~ 125V?**
   - **NO**
     - Check if Power Cord is properly connected.
   - **YES**

3. **Check if the Controller wire is disconnected.**
   - **NO**
     - Reconnect the controller.
   - **YES**

4. **Check if Terminal Block and Power Cord are connected (Check Plug).**
   - Does Power Cord N (Natural) line match to Terminal Center N (Natural) line?
   - **YES**
     - Replace controller.
   - **NO**

---

**Legend:**
- RD3: Red
- WH3: White
- L: Black
- N: White
# Test 2  Thermistor Test --- Measure with Power Off

## Caution
Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with the Ground.)

## Trouble Symptom
1. During Diagnostic Test, tE1 and tE2 Error occur.
2. During operation, Heater would not turn off, or remains on.
3. Difference between actual and sensed temperature is significant.

## Measurement Condition
After turning Power off, measure the resistance.

---

### Table 1. Resistance for Thermistor Temperature.

<table>
<thead>
<tr>
<th>Air TEMP.[°F (°C)]</th>
<th>RES. [kΩ]</th>
<th>Air TEMP.[°F (°C)]</th>
<th>RES. [kΩ]</th>
<th>Air TEMP.[°F (°C)]</th>
<th>RES. [kΩ]</th>
</tr>
</thead>
<tbody>
<tr>
<td>50°F (10°C)</td>
<td>18.0</td>
<td>90°F (32°C)</td>
<td>7.7</td>
<td>130°F (54°C)</td>
<td>2.9</td>
</tr>
<tr>
<td>60°F (16°C)</td>
<td>14.2</td>
<td>100°F (38°C)</td>
<td>6.2</td>
<td>140°F (60°C)</td>
<td>3.0</td>
</tr>
<tr>
<td>70°F (21°C)</td>
<td>11.7</td>
<td>110°F (43°C)</td>
<td>5.2</td>
<td>150°F (66°C)</td>
<td>2.5</td>
</tr>
<tr>
<td>80°F (27°C)</td>
<td>9.3</td>
<td>120°F (49°C)</td>
<td>4.3</td>
<td>160°F (71°C)</td>
<td>2.2</td>
</tr>
</tbody>
</table>

---

Check if resistance is in the range of Table 1 when measuring the 6 pin connector Pin 3 (Blue wire) and Pin 6 (Red wire) connected to Controller.

• Check if Control and the 6 pin connector are properly connected.
• Replace Controller.

Check if resistance is in the range of Table 1 when measuring resistance between terminals after separating Harness From Thermistor assembly Connector.

• Replace Thermistor.

Check Harness-linking connector.

---

Take the 6 pin Connector from the Controller.
## Test 3  Motor test

<table>
<thead>
<tr>
<th>Caution</th>
<th>Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trouble Symptom</td>
<td>Drum will not rotate; No fan will function; No Heater will work.</td>
</tr>
<tr>
<td>Measurement Condition</td>
<td>Turn the Dryer’s Power Off, then measure resistance.</td>
</tr>
</tbody>
</table>

1. **Is resistance below 3Ω between Connector WH3-1 (White wire) and BL2-2 (Brown wire)?**
   - YES
   - NO
   - *Measure while door is closed.*

2. **Is resistance below 3Ω between Connector WH3-1 (White wire) and BL2-1 (Yellow wire)?**
   - YES
   - NO
   - *Measure while door is closed.*

3. **Is resistance below 3Ω between Connector BL2-1 (Yellow wire) and BL2-2 (Brown wire)?**
   - YES
   - NO

4. **Is resistance below 1Ω between terminals of Outlet Thermostat attached to blower housing?**
   - YES
   - NO

5. **Does Idle Switch attached to Motor Bracket operate Level by drum belt?** (Not operating Lever is normal.)
   - YES
   - NO

6. **Is resistance below 1Ω between Idler Switch terminals?**
   - YES
   - NO

### Troubleshooting
- **YES**
  - **Replace Control.** (Relay check)
  - **Check Controller connector.**
  - **Check if Door flame presses door switch knob.**
  - **Check Door Switch.**
  - **Check Harness connection.**

- **NO**
  - **Replace Outlet Thermostat.** (Refer to ‘Component’)
  - **Check Idler Assembly.**
  - **Drum Belt cuts off.**
  - **Drum Belt takes off from Motor Pulley.**

- **YES**
  - **Check Motor.** (Refer to ‘Motor Diagram & Check’)
  - **Check if Control Connector is contacted.**
  - **Replace Idler Switch.**
### Test 4  Moisture sensor

**Caution**
Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)

**Trouble Symptom**
Degree of dryness does not match with Dry Level.

**Measurement Condition**
Turn the Dryer’s Power Off, then measure resistance.

---

**Table 2. IMC Ratio and Display Value / Voltage (IMC: Initial Moisture Content)**

<table>
<thead>
<tr>
<th>IMC</th>
<th>Display Value</th>
<th>Voltage (DC) (between 6 Pin terminal 3,5)</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>70% ~ 40%</td>
<td>50 ~ 130</td>
<td>2.5V</td>
<td>Weight after removing from Washing Machine</td>
</tr>
<tr>
<td>40% ~ 20%</td>
<td>130 ~ 20</td>
<td>2.0V ~ 4.0V</td>
<td>Damp Dry</td>
</tr>
<tr>
<td>10% ~ Dried clothes</td>
<td>205 ~ 240</td>
<td>Over 4.0V</td>
<td>Completely-dried clothes</td>
</tr>
</tbody>
</table>

---

When contacting cloth to Electro load:
1. Is the measurement within the range of Table 2 during Diagnostic Test?
2. Is the measurement within the range of Table 2 when measuring the voltage in the 6 pin connector’s Pin 3 (BLUE wire) and Pin 5 (ORANGE wire)?

- **NO**
  - Replace Control and Check.

- **YES**
  - Check Electro Load and Harness Connector.
  - Check Harness-linking connector.

---

When measuring resistance in Electric load, is resistance below 1Ω?

- **NO**

---

Take 6pin Connector from the Controller.

- Short with metal to the 6 pin connector’s Pin 3 (BLUE wire) and Pin 5 (ORANGE wire) to Controller.

---

**Normal Condition**
### Test 5  Door switch test

<table>
<thead>
<tr>
<th>Caution</th>
<th>Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trouble Symptom</td>
<td>Door Opening is not sensed. (During operation, when opening Door, Drum motor and Heater run continuously; Door Close is not sensed. (Drum motor will not operate. Display will flash at 0.5 second intervals.)</td>
</tr>
<tr>
<td>Measurement Condition</td>
<td>After turning Dryer Power Off, measure resistance.</td>
</tr>
</tbody>
</table>

---

**Measurements and Checks**

1. **Door Opening is not sensed**
   - **Trouble Symptom:** Door Opening is not sensed.
   - **Caution:** Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)
   - **Measurement Condition:** After turning Dryer Power Off, measure resistance.
   - **Check Controller.**
   - **Check Harness-linking connector.**

2. **Door Close is not sensed**
   - **Trouble Symptom:** Door Close is not sensed.
   - **Caution:** Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)
   - **Measurement Condition:** After turning Dryer Power Off, measure resistance.
   - **Check Controller.**
   - **Check Harness-linking connector.**

---

**Check Flow**

- **Measure while Door is closed.**
  - **Check if resistance is below 250Ω between WH3-① (White wire) and RD3-② (Black wire) Connector WH3, RD3 after taking WH3, RD3 out from Controller.
  - **YES:** Door switch Check (Refer to Component testing.)
  - **NO:**
    - **Measure while Door is open.**
      - **Check if resistance is 300~60Ω between WH3-① (White wire) and RD3-② (Black wire) Connector WH3, RD3 after taking WH3, RD3 out from Controller.
      - **NO:**
        - **Check Lamp.** (When opening Lamp, replace then measure again.)
        - **Door switch Check (Refer to Component testing.)**
      - **YES:**
        - **Door switch Check (Refer to Component testing.)**

- **Measure while Door is open.**
  - **Check if resistance is below 1Ω between BL2-① (Yellow wire) and WH3-① (White wire) after taking Connector WH3, BL2 out from Controller.
  - **YES:**
    - **Door switch Check (Refer to Component testing.)**
  - **NO:**
    - **Door switch Check (Refer to Component testing.)**

- **Measure while Door is closed.**
  - **Check if resistance is below 1Ω between BL2-① (Yellow wire) and WH3-① (White wire) after taking Connector WH3, BL2 out from Controller.
  - **NO:**
    - **Door switch Check (Refer to Component testing.)**
  - **YES:**
    - **Door switch Check (Refer to Component testing.)**
## Test 6 Heater switch test - Electric Type

<table>
<thead>
<tr>
<th>Caution</th>
<th>Before measuring resistance, be sure to turn Power off, and do voltage discharge. (When discharging, contact the metal plug of Power cord with earth line.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trouble Symptom</td>
<td>While operating, Heating will not work. Drying time takes longer.</td>
</tr>
<tr>
<td>Measurement Condition</td>
<td>After turning Power off, measure the resistance.</td>
</tr>
</tbody>
</table>

1. Is resistance between Heater terminal ① and ② below 18 ~ 22Ω? **NO**
    - Replace Heater.

2. Is resistance between Heater terminal ① and ③ below 18 ~ 22Ω? **NO**
   - Replace TH2 (Safety Thermostat).

3. Is resistance between Heater terminal ② and ③ below 9 ~ 11Ω? **YES**
   - Replace TH3 (HI-Limit Thermostat).

Check if the value of measured resistance is below 1Ω between terminal TH2 (Safety Thermostat).

Check if the value of measured resistance is below 1Ω between terminal TH3 (HI-Limit Thermostat).

Check Motor. Check if the value of measured resistance is below 1Ω between terminal ① and ⑩ at RUN condition. **NO**
   - Check Motor and replace it.

Check Controller. Check Harness-linking Connector. **YES**
Test 7  GAS Valve test - Gas Type

<table>
<thead>
<tr>
<th>Caution</th>
<th>When measuring power, be sure to wear insulated gloves, to avoid electric shock.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trouble Symptom</td>
<td>While operating, Heating will not work. Drying time takes longer.</td>
</tr>
<tr>
<td>Measurement Condition</td>
<td>With dryer power on</td>
</tr>
</tbody>
</table>

- Power On & Start (Normal Cycle)
  - NO
    - When measuring Valve 1 voltage, More than DC 90V?  NO
      - YES
        - Igniter operates? (after 1 min, Igniter becomes reddish) NO
          - YES
            - Check thermostat Hi limit Safety
          - NO
            - Check Gas connection or Gas supply
    - YES
      - When measuring Valve 2 voltage, Value is more than DC 90V? (10 sec after Igniter off) YES
        - NO
          - When measuring terminal resistance on Valve 1 and Valve 2, Valves are more than1.5 ~ 2.5kΩ? (Measure after Off ) YES
            - NO
              - If “Valve 1 “ and “Valve 2” are under DC 10V, Valves are Off? NO
                - YES
                  - Harness check
                  - Controller change
              - Check Igniter & Frame detect
            - Check Igniter 
        - NO
          - Check Gas connection or Gas supply
      - NO
        - Change Valve
    - NO
      - Change Valve

27
Changing orifices and gas valve adjustments improperly can result in an explosion and/or fire. Conversion must be made by a qualified technician.

Initially, Natural Gas mode is set. Propane Gas Orifice is on sale as a Service Part to authorized servicers only.

STEP 1 : VALVE SETTING

NATURAL GAS SETTING

Closed

Opened

Full open
Adjustment screw

CLOSED

PROPANE GAS SETTING

Closed

Adjustment screw

STEP 2 : ORIFICE CHANGE

1. Remove 2 screws.
2. Disassemble the pipe assembly.
3. Replace Natural Gas orifice with Propane Gas orifice.

<table>
<thead>
<tr>
<th>Gas type</th>
<th>Orifice P/No</th>
<th>Marking</th>
<th>Shape</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>4948EL4001B</td>
<td>NCU</td>
<td></td>
</tr>
<tr>
<td>Propane Gas</td>
<td>4948EL4002B</td>
<td>PCU</td>
<td></td>
</tr>
</tbody>
</table>

※ Kit contents: Orifice (Dia. = 1.613mm, for Propane Gas)
Replace Label
Instruction Sheet
GAS VALVE FLOW

START KEY PUSH

VALVE 1 ON

IGNITER ON

IGNITER TEMPERATURE ABOUT 370°F

NO

YES

FLAME DETECT OPEN

IGNITER OFF

VALVE 2 ON

GAS IGNITION

NO

YES

FLAME DETECT CLOSE

VALVE 2 OFF

DRYING

GAS IGNITION

START

VALVE 1

ON

IGNITER

ON OFF

FLAME DETECT

CLOSE OPEN

VALVE 2

OFF ON

GAS IGNITION

GAS VALVE STRUCTURE

Adjustment Screw

Valve 1

Valve 2
* Disassemble and repair the unit only after pulling out power plug from the outlet.

**TOP PLATE**

1. Remove 3 screws on the upper plate.

2. Push the top plate back ward.

3. Lift the top plate
1. Remove 2 screws on the control panel frame.

2. Disconnect the connectors.

3. Pull the control panel assembly upward and then forward.

4. Remove 9 screws on the PWB (PCB) assembly, display.

5. Remove 4 screws on the PWB (PCB) assembly, main.

6. Disassemble the control panel assembly.
1. Disassemble the top plate.
2. Disassemble the control panel assembly.
3. Disassemble the door assembly.
4. Remove 2 screws.

5. Remove 4 screws from the top of cabinet cover.
6. Disconnect the door switch harness.
**TUB DRUM [FRONT]**

1. Disassemble the top plate.
2. Remove Cover Cabinet.
3. Disconnect the door lamp and electrode sensor connector.
4. Remove 4 screws.
5. Disassemble the Tub Drum [Front].

**DRUM ASSEMBLY**

1. Disassemble the top plate.
2. Remove the Cabinet Cover and Tub drum [front].
3. Loosen belt from motor and idler pulleys.
4. Carefully remove the drum.

**CHANGING THE DRUM LAMP**

1. Disassemble the door.
2. Hold the lamp shield in place while removing the screw.
3. Slide the shield up and remove.
4. Remove the bulb and replace with a 15 watt, 120 volt candelabra-base bulb.
5. Replace the lamp shield and screw.
1. Remove a screw and the exhaust duct.

2-1. Detach and remove a knockout at the bottom, left or right side as desired. (Right Side Vent not available on Gas dryer)
   ①, ②, ③ the order of work.

2-2. Reconnect the another duct [11 in (28cm)] to the blower housing, and attach the duct to the base. (Duct is a SVC part)

3-1. Pre-assemble 4" elbow with 4" duct. Wrap duct tape around joint.

3-2. Insert the elbow duct assembly through the side opening and connect the elbow to the internal duct.
**FILTER ASSEMBLY**

1. Remove the filter.
2. Remove 3 screws.
3. Remove the Cover Grid.
4. Disconnect the electrode sensor.

**BLOWER HOUSING**

1. Disassemble the top plate.
2. Remove the Cabinet Cover and Tub Drum [Front].
3. Remove the Drum assembly.
4. Remove 2 screws and cover (Air guide).
5. Remove the bolt and washer.
6. Remove the fan.
7. Disconnect the motor clamp and motor.

**BACK COVER**

1. Disassemble the top plate.
2. Remove the Cabinet Cover and Tub Drum [Front].
3. Remove the Drum assembly.
4. Remove 7 screws.
5. Remove the Back Cover.
1. Disassemble the top plate.
2. Remove the Cover Cabinet.
3. Remove the filter and 2 screws.
4. Remove the air duct.

AIR DUCT

ROLLERS

1. Disassemble the top plate.
2. Remove the Cover Cabinet and Tub Drum [Front].
3. Remove the Drum assembly and Tub Drum [Rear].
4. Disconnect the Air duct from the Tub Drum [Front].
5. Remove the roller from the Tub Drum [Front] and Tub Drum [Rear].
12-1. Control Panel & Plate Assembly
12-2. Cabinet & Door Assembly
12-3-1. Drum & Motor Assembly: Electric Type
12-3-2. Drum & Motor Assembly: Gas type

* M171: Propane Gas orifice
M170: Natural Gas orifice