DISCOVERY DRYER
TRAINING MANUAL

CAUTION!
READ THIS MANUAL CAREFULLY
BEFORE DIAGNOSING OR SERVICING THIS PRODUCT.

DLE8377WM/DLG8388WM
DLE8377NM/DLG8388NM
DLE7177WM/DLG7188WM
IMPORTANT SAFETY NOTICE

The information in this training manual is intended for use by persons possessing an adequate background in electrical equipment, electronic devices, and mechanical systems. In any attempt to repair a major appliance, personal injury and property damage can result. The manufacturer or seller maintains no liability for the interpretation of this information, nor can it assume any liability in conjunction with its use. When servicing this product, under no circumstances should the original design be modified or altered without permission from LG Electronics. Unauthorized modifications will not only void the warranty, but may lead to property damage or user injury. If wires, screws, clips, straps, nuts, or washers used to complete a ground path are removed for service, they must be returned to their original positions and properly fastened.

CAUTION

To avoid personal injury, disconnect the power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks. Also be aware that many household appliances present a weight hazard. At least two people should be involved in the installation or servicing of such devices. Failure to consider the weight of an appliance could result in physical injury.

ESD NOTICE

Some of the electronic components in appliances are electrostatic discharge (ESD) sensitive. ESD can weaken or damage the electronics in these appliances in a manner that renders them inoperative or reduces the time until their next failure. Connect an ESD wrist strap to a ground connection point or unpainted metal in the appliance. Alternatively, you can touch your finger repeatedly to a ground connection point or unpainted metal in the appliance. Before removing a replacement part from its package, touch the anti-static bag to a ground connection point or unpainted metal in the appliance. Handle the electronic control assembly by its edges only. When repackaging a failed electronic control assembly in an anti-static bag, observe these same precautions.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 if the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna; Increase the separation between the equipment and the receiver; Connect the equipment to an outlet on a different circuit than that to which the receiver is connected; or consult the dealer or an experienced radio/TV technician for help.

COMPLIANCE

The responsible party for this device’s compliance is LG Electronics Alabama, Inc.; 201 James Record Road, Huntsville, AL, 35824.
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INTRODUCTION

The DISCOVERY dryer is very similar to other LG dryers with the exception of the LCD display on the control panel. The LCD display shows all the information formerly indicated by LEDs but also allows for scrolling instruction.

When a cycle is selected, the options are preset. They can be overridden by changing them using the option buttons.

Pressing the buttons cycles through the available options. If an option is not available for a particular cycle, it is grayed out or not available for selection. For example, the EXTRA HOT wash is not available for the DELICATE cycle.

The interior components remain the same: motor, belt, drum, and heat source (gas or electric). The gas model can be refitted with an orifice to allow the use of propane instead of natural gas. All such conversions and adjustments should be performed by a licensed and certified gasfitter.

The DISCOVERY model also has an additional sensor in the exhaust stream to detect the moisture level more accurately for better drying results.
Models DLE7177WM and DLG7188WM use the LED indicator panel instead of the newer LCD. The only difference is the type of display. The dryers function identically. The main and display PCB (Printed Circuit Board) will carry a different part number depending upon the type of display. **Always** order parts by model number and serial number to ensure receiving the correct parts.

The drying cycle is shown in the left window and the time remaining is show in the right. Feature selections like DRY LEVEL and BEEPER volume are indicated by LEDs on the panel.

The DISCOVERY line of dryers feature enhanced sensor drying. In addition to the drying sensor in the tub near the filter, there is an additional sensor in the exhaust stream to ensure the correct level of dryness is determined, from damp dry to very dry. The dryer can also be set manually to dry at a particular heat level and for a specified time.
SAFETY

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.

Check the local laws and regulations concerning the installation and connection of gas. In most localities, it is illegal to connect gas piping, re-jet or adjust burners, or repair gas-fired equipment unless you are licensed and certified so to do. It is the servicer’s responsibility to comply with all such regulation.
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DLE7177WM/DLE8377WM/DLG7188WM/DLG8388WM</th>
<th>DLE8377NM/DLG8388NM</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material &amp; Finish</td>
<td>Color</td>
<td>Blue White</td>
<td>Navy Blue</td>
</tr>
<tr>
<td></td>
<td>Top Plate</td>
<td>Porcelain</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Door Trim</td>
<td>Chromate</td>
<td></td>
</tr>
<tr>
<td>POWER SUPPLY</td>
<td></td>
<td>120V/240V 60Hz (26A)</td>
<td></td>
</tr>
<tr>
<td>ELECTRICITY CONSUMPTION</td>
<td>MOTOR</td>
<td>250 W (4.5A)</td>
<td>AC 120V</td>
</tr>
<tr>
<td></td>
<td>HEATER</td>
<td>5400 W (22.5A)</td>
<td>AC 240V (ELECTRIC MODEL)</td>
</tr>
<tr>
<td></td>
<td>LAMP</td>
<td>15 W (125mA)</td>
<td>AC 120V</td>
</tr>
<tr>
<td></td>
<td>GAS VALVE</td>
<td>13 W (110mA) x 2</td>
<td>AC 120V (GAS MODEL)</td>
</tr>
<tr>
<td>CONTROL TYPE</td>
<td></td>
<td>Electronic</td>
<td></td>
</tr>
<tr>
<td>DRUM CAPACITY</td>
<td></td>
<td>7.3 cu.ft.</td>
<td></td>
</tr>
<tr>
<td>Weight (lbs) - Net/Gross</td>
<td></td>
<td>124/144</td>
<td></td>
</tr>
<tr>
<td>No. of Programs</td>
<td></td>
<td>9</td>
<td></td>
</tr>
<tr>
<td>No. of Dry Options</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>No. of Temperature Controls</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>No. of Dry Levels</td>
<td></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Sound levels</td>
<td></td>
<td>High/Low/Off</td>
<td></td>
</tr>
<tr>
<td>Sensor</td>
<td>Moisture</td>
<td>Available</td>
<td>Electrode sensor</td>
</tr>
<tr>
<td></td>
<td>Temperature</td>
<td>Available</td>
<td>Thermistor</td>
</tr>
<tr>
<td>Reversible Door</td>
<td></td>
<td>Available</td>
<td></td>
</tr>
<tr>
<td>Drum</td>
<td></td>
<td>Stainless Steel</td>
<td></td>
</tr>
<tr>
<td>Dryer Rack</td>
<td></td>
<td>Available</td>
<td></td>
</tr>
<tr>
<td>Child Lock</td>
<td></td>
<td>Available</td>
<td></td>
</tr>
<tr>
<td>Interior Light</td>
<td></td>
<td>Available</td>
<td></td>
</tr>
<tr>
<td>Product (WxHxD)</td>
<td></td>
<td>27&quot; x 42 3/4&quot; x 28 3/8&quot;</td>
<td></td>
</tr>
<tr>
<td>Packing (WxHxD)</td>
<td></td>
<td>29 1/2&quot; x 44 3/4&quot; x 30 3/4&quot;</td>
<td></td>
</tr>
</tbody>
</table>
ACCESSORIES

DRYING RACK                  STACKING KIT              PEDESTAL

The DRYING RACK is used to dry items that should not be tumbled, like sweaters, tennis shoes, etc. It should be removed and stored when not in use. The rack is included with the dryer. (See installation procedure, page xx.)

The STACKING KIT is used to stack a dryer on top of a matching washer. (NEVER put a washer on top of a dryer!) The stacking kit should not be used in situation where there is the possibility of excessive vibration and movement of the washer, such as in a mobile home or an upper floor of a frame structure. The stacking kit is available as an optional purchase. (See installation procedure, page 11.)

The PEDESTAL can be used under either the washer or the dryer. It is possible to stack a washer and dryer on a pedestal, but the dryer controls may be difficult to reach and the possibility of vibration and movement is greater. The pedestal is available as an optional purchase. (See installation procedure, page 13.) Pedestals are available in heights of 7½” and 13”.

INSTALLATION (RACK)

It's simple!

Open the dryer door.

Put the rack in place.

Select RACK DRY (2nd button on right)

Press START.

Be sure the front of the rack is properly situated in the notches on either side of the filter. The back should rest on the drum and allow the drum to rotate.
WARNING! Do not attempt this alone! At least two people are required to lift the dryer and place it properly on top of the washer. Failure to observe this warning could result in serious physical injury and damage to the appliances.

1. Place the washer on a solid, even floor. If you plan to use a pedestal, install it now before going any further.

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

3. Fit the side bracket firmly to the top plate using the adhesive tape, as shown in the drawing.

4. Secure the bracket to the top plate using a screw, as shown.

Repeat steps 2, 3, and 4 for the other side.

5. Level the dryer on a firm solid floor and lock down the adjusters before placing it on top of the washer. (See page xx.)

Lift the dryer on top of the washer it toward the front of the washer, as shown.

Slide the dryer all the way back to the stop on the rail.
6. Install the front rail of the stacking kit. Push the front rail back against the stops on the side brackets.

7. Insert a screw to attach the front rail to the side bracket.

Repeat step 7 for the other side.
INSTALLATION (Pedestal)

For 27” Pedestals (Washer, Dryer, and Combo)

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

2. Level the pedestal on a solid, flat, level floor. Lock down the rear adjusters, but leave the front ones free for now.

   Set the dryer on the pedestal and level it. Level it and lock down all four adjusters on the dryer.

   Note which holes are for the washer and which are for the dryer. If you are stacking the appliances, the washer should be on the bottom.

3. Remove the protective paper from the adhesive surface of the bracket.

   Be particularly careful, because when this adhesive makes contact, there is no adjustment possible.

NOTE: Some kits include two sets of brackets (curved for the dryer and flat (shown) for the washer.) Use the correct bracket for your application. (See next page.)
INSTALLATION (Pedestal) continued

4. Holding the adhesive part of the bracket away from the dryer, insert the screws and get them started.

Press the bracket onto the dryer and tighten the screws.

5. Press the brackets onto the sides of the dryer and rub the brackets from side to side to ensure the total adhesive area is attached completely.

6. Tighten all the screws securely.

7. Lower each leg of the dryer one-fourth turn with the adjusting wrench to put a little pressure between the dryer and pedestal to prevent any motion and rattling.

8. Push the dryer into place.

9. Check the level and adjust the front legs of the pedestal as necessary. Then lock down the adjusters.

The pedestal kit includes the mounting plates (with adhesive covered by paper) and the screws to attach the plates. Remember, some pedestal kits come with two sets of brackets. The flat tops are for washers; the curved tops (shown) are for dryers. Use the correct brackets for your application.
INSTALLATION (Modem and Monitor)

REMOTE MONITOR

The monitor plugs in to any 110 Volt outlet in the home. It receives its data signal via the power lines.

1. Be sure the dryer is unplugged.

Remove the modem cover.

Save the cover for future use; in the event you must remove the modem, you can replace the cover.

2. Attach the modem to the socket with the screws provided.

3. Plug the monitor’s power cord in an outlet where you can observe it easily. Use the stand or the wall mount bracket.

4. Press and hold the button until the display shows SET.
PIGTAIL INSTALLATION

Install the appropriate power cord for the outlet available. Grounding through the neutral conductor is prohibited in new branch-circuits, mobile homes, recreational vehicles, and where prohibited by local code.

4-wire Connection

The 4-wire receptacle looks like this.

Power cord with spade terminals.

Power cord with ring terminals.

Install a strain relief on the power cord.

Then connect the terminals to the terminal block, matching the wire colors.

A. Ground screw on chassis  
B. Green wire from power cord  
C. Strain relief  
D. Neutral screw on terminal block  
E. Terminal block  
F. Neutral wire from power cord
ELECTRICAL CONNECTION (Electric Dryer Only) continued

3-wire Connection

The 3-wire receptacle looks like this.

Power cord with spade terminals.

Power cord with ring terminals.

Install a strain relief on the power cord.

Then connect the terminals to the terminal block, matching the wire colors. Add a wire to connect the chassis ground to neutral.

A. Ground screw on chassis
B. Green wire from power cord
C. Strain relief
D. Neutral screw on terminal block
E. Ground-to-neutral connection
F. Neutral wire from power cord
ELECTRICAL CONNECTION (Electric Dryer Only) continued

Be sure to tighten all screws firmly, but do not strip them or distort the contact area.

Be sure to install a strain relief on the power cord.

Replace the terminal block cover by inserting the tabs into the slots and letting them slide down to engage.

Fold it over to the back of the dryer so it covers the access to the terminal block. Be sure no wires are exposed or could touch any metal surface.

Secure the cover with a screw.
GAS CONNECTION (Gas Dryer Only)

CAUTION! (This warning applies to both natural gas and propane.)

Gas is both flammable and explosive. Use caution when working with gas.

In most locations, installing and connecting gas is restricted to properly trained and licensed persons.

Always inspect joints and connections for a leak with a soapy solution. If you see bubbles, turn the gas off and open a window. If you smell gas, turn off the main valve and open a window.

The gas dryer requires a 110 Volt, single-outlet, dedicated circuit. The cord is installed at the factory and no user-intervention is required.
# DRYER CYCLE CHART

<table>
<thead>
<tr>
<th>Cycle</th>
<th>Default Temperature</th>
<th>Dry Level</th>
<th>Display time</th>
<th>Drying</th>
<th>Cooling</th>
<th>Wrinkle care</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Electro-sensor</td>
<td>Temp-Control</td>
<td>Default time</td>
<td>Temp-Control**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Saturation</td>
<td>66±4°C</td>
<td>(5 min)</td>
<td>47±5°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Saturation</td>
<td>52±3°C</td>
<td>(5 min)</td>
<td>47±5°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Saturation</td>
<td>60±4°C</td>
<td>(5 min)</td>
<td>47±5°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Saturation</td>
<td>52±3°C</td>
<td>(5 min)</td>
<td>38±5°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Saturation</td>
<td>60±4°C</td>
<td>(5 min)</td>
<td>47±5°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Saturation</td>
<td>66±5°C</td>
<td>(5 min)</td>
<td>47±5°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No heater</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

**SENSOR DRY**  The dryness level is set by the customer.

**MANUAL DRY**  The temperature is set by the customer.

The default settings can be overridden by the customer.
COMPONENT TESTING PROCEDURES

Testing the various components of the dryer is relatively simple. Most can be checked without major disassembly.

<table>
<thead>
<tr>
<th>Component</th>
<th>Test Procedure</th>
<th>Check result</th>
<th>Remark</th>
</tr>
</thead>
</table>
| 1. Thermal cut off | Measure resistance of terminal to terminal  
  - Check Top Marking: N130 | If thermal fuse is open must be replaced  
  1. Resistance value \( \approx \infty \)  
  2. Continuity (250°F \( \downarrow \)) < 1Ω | • Heater case- 
Safety  
• Electric type |
| 2. Hi limit Thermostat  (Auto reset) | Measure resistance of terminal to terminal  
  - Check Top Marking: N130 | 1. Resistance value \( \approx \infty \)  
  2. Resistance value < 5Ω | • Heater case - 
Hi limit  
• Electric type |
| 3. Outlet Thermostat  (Auto reset) | Measure resistance of terminal to terminal  
  - Check Top Marking: N85  
  Same shape as Thermal cut off. | 1. Resistance value \( \approx \infty \)  
  2. Resistance value < 5Ω | • Blow housing - 
Safety  
• Electric type |
| 4. Lamp holder | Measure resistance of terminal to terminal | Resistance value: 80Ω ~ 100Ω | |
| 5. Door switch | Measure resistance of the following terminal  
  1) Door switch knob: open  
  - Terminal: COM - NC (1-3)  
  - Terminal: COM - NO (1-2)  
  2) Door switch push: push  
  - Terminal: COM - NC (1-3)  
  - Terminal: COM - NO (1-2) | 1. Resistance value < 1Ω  
  2. Resistance value \( \approx \infty \)  
  3. Resistance value \( \approx \infty \)  
  4. Resistance value < 1Ω | The state that Knob is pressed is opposite to Open condition. |
| 6. Idler switch | Measure resistance of the following terminal:  
  COM - NC | 1. lever open  
  1. Resistance value < 1Ω  
  2. Lever push (close)  
  2. Resistance value \( \approx \infty \) | |
## COMPONENT TESTING PROCEDURES

<table>
<thead>
<tr>
<th>Component</th>
<th>Test Procedure</th>
<th>Check result</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>7. Heater</td>
<td>Measure resistance of the following terminal</td>
<td></td>
<td>• Electric type</td>
</tr>
<tr>
<td></td>
<td>① Terminal: 1 (COM) - 2</td>
<td>① Resistance value: 10Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td>② Terminal: 1 (COM) - 3</td>
<td>② Resistance value: 10Ω</td>
<td></td>
</tr>
<tr>
<td></td>
<td>③ Terminal: 2 - 3</td>
<td>③ Resistance value: 20Ω</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: 58°F ~ (10–40°C) 58°F ~ 104°F (10–40°C)</td>
<td></td>
<td>Hi limit</td>
</tr>
<tr>
<td>9. Motor</td>
<td></td>
<td></td>
<td>• See Page 13</td>
</tr>
<tr>
<td>10. Gas valve</td>
<td>Measure resistance of the following terminal</td>
<td></td>
<td>• Gas type</td>
</tr>
<tr>
<td></td>
<td>① Valve 1 terminal</td>
<td>① Resistance value: &gt; 1.5 kΩ</td>
<td></td>
</tr>
<tr>
<td></td>
<td>② Valve 2 terminal</td>
<td>② Resistance value: &gt; 1.5–2.5 kΩ</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. Flame Detect</td>
<td>Measure resistance of terminal to terminal</td>
<td></td>
<td>• Gas type</td>
</tr>
<tr>
<td></td>
<td>① Open at 370°F (Maximum)</td>
<td>① Resistance value ∞</td>
<td></td>
</tr>
<tr>
<td></td>
<td>② Close at 320°F</td>
<td>② Resistance value &lt; 1Ω</td>
<td></td>
</tr>
</tbody>
</table>
## COMPONENT TESTING PROCEDURES continued

<table>
<thead>
<tr>
<th>Component</th>
<th>Test Procedure</th>
<th>Check result</th>
<th>Remark</th>
</tr>
</thead>
</table>
| 13. Outlet Thermostat (Auto reset) | Measure resistance of terminal to terminal  
1. Open at 203 ± 7°F (95 ± 5°C)  
2. Close at 158 ± 9°F (70 ± 5°C) | 1. Resistance value $\approx \infty$  
2. Continuity $< 1\Omega$ | • Gas type  
• Gas funnel |
| 14. Outlet Thermostat (Manual reset) | Measure resistance of terminal to terminal  
1. Open at 212 ± 12°F (100 ± 7°C)  
2. Manual reset | If thermal fuse is open must be replaced  
1. Resistance value $\approx \infty$  
2. Continuity $< 1\Omega$ | • Gas type  
• Gas funnel |
| 15. Semi-Conductor | Measure resistance of terminal to terminal  
1. Red-White : $300 \pm 20\Omega$  
2. White-Black : $300 \pm 20\Omega$ | 1. Resistance value $\approx \infty$  
2. Continuity $< 1\Omega$ | • Elect type  
• Gas type |
MOTOR DIAGRAM and SCHEMATIC

To check the motor, turn the power off and allow the capacitor to discharge. The centrifugal switch serves as a safety device to turn off the fuel (gas or electricity) to the heater if the motor fails to rotate.
SAFETY SWITCHES

The centrifugal switch slides back and forth on the motor’s shaft to operate the contacts as shown in the previous diagram. This switch provides safety in the event the motor fails. When the motor is running, centrifugal force causes the weight (black wing in photo) to slide back toward the motor windings. This motion allows electricity to operate the heater (electric element or gas valve). If the motor stops, the weight slides forward and turns the power off.

There is an additional safety in the form of a belt switch that shuts off power to the electric motor if the belt breaks. Belt tension holds the switch closed. If the belt breaks, the switch opens and power to the motor is cut. When the motor stops, the centrifugal switch functions as a safety device to turn off the fuel (gas or electricity).

The centrifugal switch includes a multi-pin connector (shown).

The belt switch is simple. If the belt breaks, the spring pulls the lever down and it presses the switch.
DISPLAY PWB

The display board is actually two boards connected by a ribbon cable. One board holds the selector knob and cycle indicator LEDs. The other holds the LCD display and adjustment buttons to override the pre-set cycle selections.

The DLE7177WM board is shown below. Other models vary slightly.

The gas and electric models have a different display board.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OPTION PART</th>
<th>LED DISPLAY</th>
<th>PART NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLE8377WM/DLE8377NM</td>
<td>DP 1</td>
<td>DP 3</td>
<td>OP 5</td>
</tr>
<tr>
<td>DLG8388WM/DLG8388NM</td>
<td>O</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
MAIN PWB

The main board includes the relays that operate electric heaters and gas valves.

The DLE7177WM board is shown below. Other models vary slightly.

The gas and electric models have a different main board.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>a RLY200</th>
<th>b x5</th>
<th>c TRANS</th>
<th>MICOM</th>
<th>PART NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>DLE8377WM</td>
<td>O</td>
<td>O</td>
<td>6170EC1006F</td>
<td>X</td>
<td>6871EL1013C</td>
</tr>
<tr>
<td>DLE8377NM</td>
<td>O</td>
<td>O</td>
<td>6170EC1006F</td>
<td>X</td>
<td>6871EL1013C</td>
</tr>
<tr>
<td>DLG8388WM</td>
<td>X</td>
<td>X</td>
<td>6170EC1006F</td>
<td>X</td>
<td>6871EL1013D</td>
</tr>
<tr>
<td>DLG8388NM</td>
<td>X</td>
<td>X</td>
<td>6170EC1006F</td>
<td>X</td>
<td>6871EL1013D</td>
</tr>
</tbody>
</table>
# DIAGNOSTIC TEST MODE

The diagnostic test mode is for service testing only. Do not activate the heater manually with the door open or it will trip the thermostat attached to the heater.

1. Dryer must be in standby mode. (Plugged in, turned off)
2. Press and hold MORE TIME and LESS TIME, then press power.
3. Press START/PAUSE to advance to the next test.
4. Unplug the dryer for one minute after using the diagnostic mode.

<table>
<thead>
<tr>
<th>Press 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>LQC TEST</td>
<td>Won’t power up Defective LED or LCD</td>
<td>See test 1 Display: See page</td>
</tr>
<tr>
<td></td>
<td></td>
<td>tE1</td>
<td>Thermistor open</td>
<td>See test 2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>tE2</td>
<td>Thermistor closed</td>
<td></td>
</tr>
<tr>
<td>Once</td>
<td>Motor</td>
<td>70 ~ 239 Measured Moisture Value.</td>
<td>Motor runs</td>
<td>See test 3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></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></td>
</tr>
<tr>
<td>Twice</td>
<td>Electric Type Motor + Heater 1 [200W]</td>
<td>Current Temp.</td>
<td>Electric Type: Heater runs</td>
<td>Gas valve See test 7</td>
</tr>
<tr>
<td></td>
<td>Gas Type Motor + Valve</td>
<td></td>
<td>Gas Type: GAS Valve runs (Display the Temperature of Inside drum.)</td>
<td></td>
</tr>
<tr>
<td>3 times</td>
<td>Electric Type Motor + Heater 1 + Heater 2 [5400W]</td>
<td>Current Temp.</td>
<td>5 ~ 70</td>
<td></td>
</tr>
<tr>
<td>4 times</td>
<td>Motor, Heater</td>
<td>50 ~ 230 Measured *SE (Error Display)</td>
<td>Motor, Heater Off</td>
<td>See test 8</td>
</tr>
<tr>
<td>5 times</td>
<td>Control Off</td>
<td></td>
<td>Semi-conductor</td>
<td>Auto Off</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>&quot;SE&quot; or &quot;Err&quot; (THE DOOR IS NOT FULLY CLOSE THE DOOR COMPLETELY)</td>
<td>Door switch</td>
<td>See test 8</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Lamp</td>
<td></td>
</tr>
<tr>
<td>During check, If the door is closed.</td>
<td>Motor on &amp; Heater Off + Lamp Off</td>
<td>70 ~ 239</td>
<td>70 ~ 239</td>
<td></td>
</tr>
</tbody>
</table>

Note: 70 ~ 239 is displayed in test 5 times. The dryer should be unplugged for one minute after using the diagnostic mode.
DRYER

DIAGNOSTIC TEST PROCEDURES

The following pages will assist in troubleshooting and diagnosing issues with the dryer. Each test will list the appropriate precautionary measures along with symptoms and the conditions under which the testing should be performed.

TEST 1 – 120 V AC ELECTRICAL SUPPLY

WARNING! Use insulated gloves to avoid electrical shock.
SYMPTOM! No power, display off.
CONDITION! Power on to dryer, controller connected.

- Check the outlet, is the voltage 110V ~ 125V AC?
  - NO → Check the fuse or circuit breaker.
  - YES → Check if the voltage measured between Connector BK2 or WH2-② (Black Wire) Linked to the Controller and WH1-③ (White Wire) Is 110~125V?
    - NO → Check if Power Cord is properly connected.
    - YES → Replace controller.

continued on next page
WARNING! Use insulated gloves to avoid electrical shock.
SYMPTOM! Check the TAB RELAY connections.
CONDITION! Power on to dryer, controller connected.

POWER CONNECTION

<table>
<thead>
<tr>
<th>Tab Relay 1</th>
<th>Tab Relay 2</th>
<th>Heater 1</th>
<th>Heater 2</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>High</td>
<td>on</td>
<td>on</td>
<td>Temperatures Control below 88 ± 4°C. Turn on Heater 1 and Heater 2.</td>
</tr>
<tr>
<td>Medium</td>
<td>Medium</td>
<td>on</td>
<td>on</td>
<td></td>
</tr>
<tr>
<td>Low</td>
<td>Extra Low</td>
<td>on</td>
<td>off</td>
<td>Temperature Control below 52 ± 4°C. Only Turn on Heater 1.</td>
</tr>
</tbody>
</table>

Connection of the Tab Relay with Burner (Gas)

<table>
<thead>
<tr>
<th>Tab Relay 1</th>
<th>Burner</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>None</td>
<td>Temperature Control below 70 ± 4°C. Turn on Burner</td>
</tr>
<tr>
<td>Medium</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Low</td>
<td>None</td>
<td>Temperature Control below 47 ± 4°C. Turn on Burner</td>
</tr>
</tbody>
</table>

CONNECTION STATUS (Electric)

<table>
<thead>
<tr>
<th>Color</th>
<th>Connector Housing</th>
<th>Connection</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Black</td>
<td><img src="image1" alt="Diagram" /></td>
<td>Check the matching color between Harness wire and tab relay. (Black housing – black tab relay)</td>
</tr>
<tr>
<td>White</td>
<td>White</td>
<td><img src="image2" alt="Diagram" /></td>
<td>Check the matching color between Harness wire and tab relay. (White housing – white tab relay)</td>
</tr>
</tbody>
</table>

CONNECTION STATUS (Electric)

<table>
<thead>
<tr>
<th>Color</th>
<th>Harness</th>
<th>PCB</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black</td>
<td>Black</td>
<td><img src="image3" alt="Diagram" /></td>
<td>Check the matching color between Harness wire and tab relay. (Black housing – black tab relay)</td>
</tr>
</tbody>
</table>
If the power connection is reversed, the dryer will not operate and components can be damaged.

**CONNECTION STATUS REVERSED (Incorrect) (Electric)**

<table>
<thead>
<tr>
<th>Items</th>
<th>Case</th>
<th>Heater 1 Operation (black)</th>
<th>Heater 2 Operation (White)</th>
<th>PCB condition Of operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Black and White Housing</td>
<td>Wire (1), (2) CROSS</td>
<td>Off</td>
<td>Off</td>
<td>Power Off</td>
</tr>
<tr>
<td>2. Black Housing</td>
<td>Wire (1), (2) CROSS</td>
<td>Off</td>
<td>Off</td>
<td>Power Off</td>
</tr>
<tr>
<td>3. White Housing</td>
<td>Wire (1), (2) CROSS</td>
<td>Normal</td>
<td>Normal</td>
<td>Power On</td>
</tr>
<tr>
<td>4. Black and White Housing</td>
<td>Housing CROSS</td>
<td>Heater 2</td>
<td>Heater 1</td>
<td>Power On</td>
</tr>
<tr>
<td>5. Black and White Housing</td>
<td>Housing and Wire (1), (2) CROSS</td>
<td>Off</td>
<td>Off</td>
<td>Power Off</td>
</tr>
</tbody>
</table>

**CONNECTION STATUS REVERSED (Incorrect) (Gas)**

<table>
<thead>
<tr>
<th>Items</th>
<th>Case</th>
<th>Heater 1 Operation (black)</th>
<th>Heater 2 Operation (White)</th>
<th>PCB condition of operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Black and White Housing</td>
<td>Wire (1), (2) CROSS</td>
<td>Off</td>
<td>Off</td>
<td>Power Off</td>
</tr>
</tbody>
</table>
TEST 2 – Thermistor Test (Power Off)

WARNING! Use insulated gloves to avoid electrical shock.

SYMPTOM!
- **tE1** and **tE2** error codes occur during the test.
- Heater does not turn off.
- Significant difference between actual and sensed temperature.

CONDITION!
- Power off.

Table – Thermistor resistance/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>
TEST 3 – Motor Test

WARNING! Discharge (see below) before measuring resistance.

SYMPTOM! Motor, fan, and heater do not function.

CONDITION! Turn power off, unplug dryer, and discharge by shorting line and neutral to ground at the end of the power cord.

- Is resistance below 3Ω between Connector WH① (White wire) and BL2-② (Brown wire)?
  - Measure while door is closed.
  - **YES** • Replace Control. (Relay check)  
  - **NO** • Check Door Switch.

- Is resistance below 3Ω between Connector WH① (White wire) and BL2-③ (Yellow wire)?
  - Measure while door is closed.
  - **NO** • Check Harness connection.
  - **YES** • Replace Control. (Relay check)  

- Is resistance below 3Ω between Connector BL2-① (Yellow wire) and BL2-② (Brown wire)?
  - **YES** • Replace Outlet Thermostat. (Refer to Component)

- Is resistance below 1Ω between terminals of Outlet Thermostat attached to blower housing?
  - **NO** • Check Idler Assembly.  
  - **YES** • Drum Belt cuts off  
  - Drum Belt takes off from Motor Pulley.

- Does Idle Switch attached to Motor Bracket operate Level by drum belt? (Not operating Lever is normal.)
  - **YES** • Replace Idler Switch.

- Is resistance below 1Ω between Idler Switch terminals?
  - **NO** • Check Motor. (Refer to Motor Diagram & Check)  
  - **YES** • Check if Control Connector is contacted.
TEST 4 – Moisture Sensor Test

WARNING! Discharge (see below) before measuring resistance.

SYMPTOM! Dryness of clothing does not match set dry level.

CONDITION! Turn power off, unplug dryer, and discharge by shorting line and neutral to ground at the end of the power cord. Measure resistance.

Table – IMC Ratio and Display Value  (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>
TEST 5 – Door Switch Test

WARNING! Discharge before measuring resistance.

SYMPTOM! Door opening not sensed (dryer runs with door open).

CONDITION! Turn dryer off, unplug, discharge, and measure resistance.

Measure while Door is closed. Check it resistance is below 2500 Ω between WH1-Ω(White wire) and BK2-Ω Connector WH1, BL2 after taking WH1, BL2 out from Controller.

IF YES → Door switch Check (Refer to Component testing.)

IF NO → Measure while Door is open. Check it resistance is 300–60 Ω between WH1-Ω(White wire) and BK2-Ω (Black wire). Connector WH1, BL2 after taking WH1, BL2 out from Controller.

IF NO → Check Lamp. (When opening Lamp, replace then measure again.)

IF YES → Door switch Check (Refer to Component testing.)

Measure while Door is open. Check it resistance is below 1 Ω between BL2-Ω(Yellow wire) and WH1-Ω(White wire) after taking Connector WH1, BL2 out from Controller.

IF YES → Door switch Check (Refer to Component testing.)

IF NO → Measure while Door is closed. Check it resistance is below 1 Ω between BL2-Ω(Yellow wire) and WH1-Ω(White wire) after taking Connector WH1, BL2 out from Controller.

IF NO → Door switch Check (Refer to Component testing.)

IF YES → Check Controller. Check Harness-linking connector.
TEST 6 – Heater Switch (Electric Dryer Only)

**WARNING!** Discharge before measuring resistance.

**SYMPTOM!** Heater does not operate.

**CONDITION!** Turn power off, unplug, discharge, and measure resistance.

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

2. Is resistance between Heater terminal ① and ③ below 18 ~ 22Ω?
   - **NO**
   - **YES** Check if the value of measured resistance is below 1Ω between terminal TH2 (Safety Thermostat).
     - **NO** → Replace TH2 (Safety Thermostat).
     - **YES**

3. Is resistance between Heater terminal ② and ③ below 9 ~ 11Ω?
   - **NO**
   - **YES** Check if the value of measured resistance is below 1Ω between terminal TH3 (Hi-Limit Thermostat).
     - **NO** → Replace TH3 (Hi-Limit Thermostat).
     - **YES**

Check Motor. Check if the value of measured resistance is below 1Ω between terminal ① and ⑥ at RUN condition.

- **NO** → Check Motor and replace it.
- **YES**

Check Controller.
Check Harness-linking Connector.
TEST 7 – Gas Valve Test (Gas Dryer Only)

WARNING! Use insulated gloves to avoid electrical shock.

SYMPTOM! Heater does not operate.

CONDITION! Power on.

1. Power On & Start (Normal Cycle)
   - NO
   - When measuring Valve 1 voltage, More than 90V DC ?
     - NO
     - Check thermostat Hi limit Safety
     - YES
     - Igniter operates? (after 1 minute, igniter becomes reddish)
       - NO
       - Check Igniter & Flame detect
       - YES
       - When measuring Valve 2 voltage, Value is more than 90V DC ? (10 seconds after igniter off)
         - YES
         - Check Gas connection or Gas supply
         - NO
         - When measuring terminal resistance on Valve 1 and Valve 2, Valves are more than 1.5 ~ 2.5 kΩ?
           (Measure after Off)
           - YES
           - Change Valve
           - NO
           - If Valve 1 and Valve 2 are under 10V DC, Valves are Off?
             - NO
             - Change Valve
             - YES
             - Harness check
             - Controller change
**TEST 8 – Semiconductor (Sensor) Test**

**WARNING!**  Discharge before measuring resistance.

**SYMPTOM!**  Resistance is not 300Ω ± 20Ω

**CONDITION!**  Turn power off, unplug, discharge, and measure resistance.

---

1. **When measuring resistance 3–4, 4–5**
   - Is resistance 300 ±20 Ω?
     - **NO**
       - Check Semiconductor and Harness Connector
       - Check Harness linking connector
     - **YES**

2. **When measuring resistance in Semi-Conductor**
   - Is resistance 300 ±20 Ω?
     - **NO**
       - Replace Control and Check.
     - **YES**

---

Normal Condition
GAS CONVERSION (Natural to Propane)

WARNING! Improper installation and/or adjustment of orifices and gas valves can result in fire, explosion, and suffocation. Installation and adjustment should be performed ONLY by a trained, licensed, and certified gasfitter.

NOTICE! The dryer is shipped from the factory equipped for natural gas.

1. Close the adjustment screw.

Notice there is a nut on the adjustment screw. This nut is secured to the thread with a sealing compound. The nut is pre-positioned to the place the valve would be properly adjusted for LP. Its purpose is to provide a shoulder for positioning the adjustment screw if the dryer is converted from natural gas to propane.

NOTE: The conversion should be performed by a licensed and certified gasfitter.
2. Replace the orifice. (See photo, previous page.)

You’ll have to remove the top plate and front cover to change the orifice.

Installing the correct orifice is critical! This should be performed ONLY by trained, licensed, and certified service personnel.

3. The conversion kit includes a propane orifice, complete instructions for making the conversion, and a label indicating the conversion kit has been installed. All conversion work, including testing and adjusting, must be completed by a trained, licensed, and certified gasfitter.

<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>
The gas valve is a two-stage valve. When the ignition sequence begins, the igniter is turned on and valve one opens. When the igniter reaches 370°F (188°C), the igniter is turned off and valve two is opened. If the flame detector does not detect ignition, valve two is closed and the process is restarted. If ignition occurs as planned, the drying cycle will operate.
DISASSEMBLY and REPAIR INSTRUCTIONS

TOP PLATE

1. Remove three screws along the back of the top (cover) plate.

2. Slide the top plate backward.

3. Lift the top plate off and set it aside.
CONTROL PANEL

1. Remove two screws, one on each corner of the control panel.

2. Disconnect all connectors.
   NOTE: The connectors are all different to prevent misassembly.

3. Pull the control panel upward, then forward. Be sure to disengage all the plastic tabs along the top.

4. Lay the control panel on its face on a soft, protective cloth.

5. Remove nine screws on the display PWB.

6. Remove four screws on the main PWB.

7. Disassemble the control panel.
FRONT CABINET

1. Remove the top plate.
2. Remove the control panel.
3. Remove the door, if necessary for the repair.
4. Remove two screws in the bottom of the door opening.
5. Remove four screws from the top of the front cabinet.
6. Tilt the front away from the dryer and disconnect the door switch wire harness.

DOOR REVERSAL

1. Remove two screws that hold the door. Remove the door and set it aside on a soft, protective cloth. Save the hinge shim.
2. Remove two screws near the latch.
3. Remove two screws and the latch piece.
4. Rotate everything 180° and reinstall so the door opens from the other side.
DRYER

TUB FRONT

1. Remove the top plate.
2. Remove the front cabinet.
3. Disconnect the door lamp (top) and electrode sensor (bottom).
4. Remove the four screws holding the front assembly.
5. Lift the tub front up and away.

DRUM, BELT, and PULLEY

1. Remove the drum front.
2. Reach in and remove the belt from the motor and pulley.
3. Lift the drum out through the front of the dryer. The belt will still be around the drum.
4. To replace the drum, put the belt around it and set into the dryer to rest on the two rubber wheels on the tub back. Let the belt hang.
5. Replace the tub front, holding the drum up so it can set on the two rubber wheels on the tub front.
6. Make sure the belt is around the circumference of the drum near the point where it usually rides.
7. Reach in through the front or the side and loop the belt around the motor shaft and the pulley. Rotate the drum by hand a couple of turns to seat it.
DRUM LAMP

The drum light can usually be changed without a major disassembly, unless the bulb is frozen in the socket. If the bulb can’t be changed using this procedure, you’ll have to remove the front cover and the lampholder to get to the socket.

1. Open the door.
2. Hold the lamp shield in place and remove the screw.
3. Slide the shield toward the screw and remove it.
4. Unscrew the bulb and replace it with a 15-watt, 120 V, candelabra-base bulb.
5. Replace the shield and screw.

Notice the bulb holder has feet that hold it in place and tabs to keep it positioned properly.

The socket can be removed and replaced by squeezing the tabs and pulling the bulb and socket into the housing. Press it back into place after changing the bulb.
VENT REPLACEMENT

1. Use the VENT KIT to change the exhaust direction.
   (Part # 383EEL9001B)
   On the back of the dryer, remove the screw securing the exhaust duct.

2. (A) Remove the knockout on the left, right*, or bottom, as necessary.
   * Right vent option not available on gas dryers due to internal piping interference.
   (B) Insert the replacement pipe.
   (C) Attach the pipe with a screw.

3. Pre-assemble the elbow and a replacement duct and secure the joint with duct tape.

4. Insert the pre-assembled elbow into the dryer through the vent hole and connect it to the internal pipe.

5. Tear off some pieces of duct tape and secure that joint as well.

6. Connect the pipe to the exhaust duct.
FILTER ASSEMBLY and MOISTURE SENSOR

1. Remove the lint filter.
2. Remove three screws holding the cover grid.
3. Remove the cover grid.
4. Disconnect the electrode sensors.

BACK COVER

1. Remove the top plate.
2. Remove the front cover.
3. Remove the tub front.
4. Remove the drum.
5. Remove 7 screws.
6. Remove the back cover.
AIR DUCT

1. Remove the top plate.
2. Remove the front cover.
3. Remove the filter.
4. Remove 2 screws at the top of the air duct.
5. Remove the air duct.
ROLLERS

1. Remove the top plate.

2. Remove the front cover.

3. Remove the tub front.

4. Remove the drum (if replacing the back rollers.)

5. Use an open-end wrench to remove and replace the shaft and roller.

NOTE:

If the shaft is OK and you are replacing only the roller, you can squeeze the triangular retainer to remove and replace the roller without removing the shaft from the machine.

Be sure to install the small bushings. These must be between the roller and the retainer on both sides of the roller. See photo.
BLOWER HOUSING

1. Remove the top plate.
2. Remove the front cover.
3. Remove the tub front.
4. Remove the drum.
5. Remove the two screws and the cover on the air guide.
6. Remove the nut and washer on the blower shaft.
7. Remove the fan from the shaft.
8. Press down the hooked end of the clamps and remove them.
9. Disconnect and remove the motor.
EXPLODED VIEW (Control Panel and Top Plate Assembly)
EXPLODED VIEW (Cabinet and Door Assembly)
EXPLODED VIEW (Drum and Motor – Electric Model)
## Parts List

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