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1. What is a Dryer?

A lifter, operated by a rotating drum, rolls laundry in the drum, and hot air heated by electricity (or gas) dries the laundry through time or sensor dry system (a temperature control system) under various conditions.

2. Key Features

◆ Large Capacity/Time-Saving
  • A large quantity of laundry can be dried at a time, saving energy as well as time.

◆ Automatic Digital Dry
  • The digital sensor measures the humidity of laundry for optimum drying.

◆ Large Door and Automatic Dry
  • The dryer has a large transparent door for convenient laundry dropping and checking.

◆ Dust Filter
  • Fluff and dust are filtered during the drying process.

◆ Sterilizing Dry
  • The high-temperature air dries laundry with sterilizing effects.

◆ Drying Shoes
  • The dryer rack provided with the unit helps drying shoes as well as sensitive fabric.

◆ Anti Static
  • This is the function that injects steam late in the drying cycle to reduce the static electricity.
3. Key Functions

◆ Dry Time
  • Adjust the length of time for drying.

◆ Sensor Dry
  • Automatically dry according to the types of laundry.

◆ Rack Dry
  • Dry sensitive shoes and fabric(e.g. sweaters, silk, lingerie) on the rack.

◆ Anti-crease
  • Prevent wrinkles in case laundry stays in the drum after the drying process.

◆ Damp Signal
  • Signals when laundry is damp enough to be ironed.

◆ Delay Start
  • Preset time indicates starting time of the cycle.
### Dryer Specification

#### 1. Product Look

<table>
<thead>
<tr>
<th>No.</th>
<th>Parts</th>
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<tbody>
<tr>
<td>1</td>
<td>FRAME DOOR O</td>
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<td>PROTECTOR GLASS</td>
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<td>3</td>
<td>PANEL FRONT</td>
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<td>4</td>
<td>CABINET FRONT</td>
</tr>
<tr>
<td>5</td>
<td>PLATE TOP</td>
</tr>
<tr>
<td>6</td>
<td>CABINET</td>
</tr>
<tr>
<td>7</td>
<td>BUTTON FUNCTION</td>
</tr>
<tr>
<td>8</td>
<td>BUTTON OPTION</td>
</tr>
<tr>
<td>9</td>
<td>WINDOW COURSE</td>
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<tr>
<td>10</td>
<td>DIA KNOB</td>
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<tr>
<td>11</td>
<td>BUTTON DELAY</td>
</tr>
<tr>
<td>12</td>
<td>BUTTON START</td>
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<td>13</td>
<td>BUTTON POWER</td>
</tr>
<tr>
<td>14</td>
<td>WINDOW DISPLAY</td>
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</table>

**Dimensions**

27" (68.6cm) x 32" (81.2cm) x 40 3/8" (102.5cm) x 52" (132cm)  
W x D x H x Depth with door open

**Weight**

129 lb. (58.5 kg)

**Capacity**

IEC 7.3 cu.ft (22.9lb)

**Rated Power**

<table>
<thead>
<tr>
<th>Electric</th>
<th>Gas (LNG/LPG)</th>
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<tbody>
<tr>
<td>120/240V 60Hz</td>
<td>120V 60Hz</td>
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<tr>
<td>23.5A 5300W</td>
<td>5A 22.9lb</td>
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</table>
**Operating Mechanism**
- Controller operation
- Operator/gas burner/air supplier/ventilator operation
- Automatic operation of the controller
- Drying by the automatic sensor

1. **Controller**
   - MAIN PCB
   - FRONT PCB
   - HARNESS
   - POWER CORD ASSY: 15A

2. **Drive**
   - IMPELLER FAN
   - MOTOR ASS'Y
   - THERMOSTAT
   - BELT/IDLER ASS'Y

3. **Gas Burner**
   - Gas Valve AS (LNG, LPG)
   - THERMOSTAT

4. **Heat Exchanger & Dryer**
   - DRUM
   - LIFTER
   - Drying temperature sensor

5. **FILTERING**
   - FILTER ASS'Y

6. **Air-Ventilator**
   - Air-vent duct

---

Laundry control panel
Lifter plate top
Steam duct inlet
Door
Laundry cabinet front
Filter as
Impeller fan
Duct outlet

---

Electric Input Program
### Operating Mechanism

- **Controller operation**
- **Operator/heater/air supplier/ventilator operation**
- **Automatic operation of the controller**
- **Drying by the automatic sensor**

#### 1. Controller
- MAIN PCB
- FRONT PCB
- HARNESS
- TERMINAL BLACK (240V 60Hz)

#### 2. Drive
- IMPELLER FAN
- MOTOR ASS’Y
- THERMOSTAT
- BELT/IDLER ASS’Y

#### 3. Heater
- HEATER ASS’Y (5KW)
- THERMOSTAT
- DUCT INLET

#### 4. Heat Exchanger & Dryer
- DRUM
- LIFTER
- Drying temperature sensor

#### 5. FILTERING
- FILTER ASS’Y

#### 6. Air-Ventilator
- Air-vent duct

---

**Diagram Description**

- **lifter**
- **plate top**
- **control pannel**
- **Laundry**
- **cabinet front**
- **filter as**
- **impeller fan**
- **duct inlet**
- **heater as**
- **duct outlet**
Mechanism by Ass’y (Electric Type)
Mechanism by Ass’y (Gas Type)

- PLATE TOP ASS’Y
- MAIN PCB ASS’Y
- CABINET ASS’Y
- DRUM SUPPORT REAR ASS’Y
- PANEL F ASS’Y
- DRUM SUPPORT FRONT ASS’Y
- DUCT IN LET ASS’Y
- CABINET F ASS’Y
- GAS BURNER ASS’Y
- DRUM ASS’Y
<table>
<thead>
<tr>
<th>No.</th>
<th>Part Name</th>
<th>Part Code</th>
<th>Description</th>
<th>Qtty</th>
<th>Remark</th>
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<tr>
<td>C03</td>
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<td>T2S TRS 4x14</td>
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<td>For fixing Frame Upper to Cabinet</td>
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<tr>
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<td>Refer to '12. Unit steam dryer as'</td>
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<td>T2 TRS 4&quot;14</td>
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<td>For fixing Steam AS</td>
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## 2. DRYER MOTOR ASS'Y

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<th>No.</th>
<th>Part Name</th>
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<th>Remark</th>
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<td>M02</td>
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<td>M07</td>
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<td>M19</td>
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<td>T2 TRS 4x14</td>
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### 3. GAS BURNER ASS’Y

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<tr>
<th>No.</th>
<th>Part Name</th>
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<th>Qtt’y</th>
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<td>G02</td>
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<tr>
<td>G03</td>
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<td>G04</td>
<td>MIXING VENTURI AS</td>
<td>3612209200</td>
<td>VENTURI AS+ FLAME DAMPER</td>
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<td>1</td>
<td>For fixing G03 &amp; G06</td>
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4. INLET DUCT ASS'Y

4-1. Electric Type

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<td>HARNES HEATER(DRYER)</td>
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4-2. Gas Type

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### 5. SUPPORT DRUM REAR ASS’Y

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<td>SCREW TAPPING</td>
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<td>T2 TRS 4x14 MFZN</td>
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<td>For fixing bracket supp.up &amp; side</td>
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<td>M10 P1.5</td>
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### 6. SUPPORT DRUM FRONT ASS’Y

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<td>SUP. DRUM F</td>
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<tr>
<td>S02</td>
<td>HOUSING LAMP</td>
<td>3613053400</td>
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<tr>
<td>S03</td>
<td>SOCKET LAMP</td>
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<td>S05</td>
<td>WINDOW LAMP</td>
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<td>SCREW TAPPING</td>
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### 8. DOOR ASS’Y

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<td>F2</td>
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<td>ABS, GILDING_BASE</td>
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<td>F3</td>
<td>DECO START</td>
<td>3611692210</td>
<td>ABS, GILDING_BASE</td>
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<td>F4</td>
<td>BUTTON FUNCTION DRY LEVEL</td>
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<td>F5</td>
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<td>SPRING BUTTON</td>
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<td>SUS 0.7PI D=12.3 L=15</td>
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<td></td>
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<tr>
<td>F9</td>
<td>DECO WINDOW</td>
<td>3611692410</td>
<td>ABS, GILDING_BASE</td>
<td>1</td>
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<tr>
<td>F10</td>
<td>WINDOW DISPLAY</td>
<td>3615508300</td>
<td>ABS, TR558, WE52</td>
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<tr>
<td>F11</td>
<td>BUTTON OPTION</td>
<td>3616641200</td>
<td>ABS, TR558, WE52</td>
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<tr>
<td>F12</td>
<td>BUTTON TIME</td>
<td>3616641100</td>
<td>ABS, WE52</td>
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<tr>
<td>F13</td>
<td>WINDOW COURSE</td>
<td>3615508200</td>
<td>ABS, TR558, WE52</td>
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<tr>
<td>F14</td>
<td>DECO COURSE</td>
<td>3611692310</td>
<td>ABS, GILDING_BASE</td>
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<tr>
<td>F15</td>
<td>BUTTON POWER</td>
<td>3616640500</td>
<td>ABS, TR558, WE52</td>
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<td></td>
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<tr>
<td>F16</td>
<td>BUTTON AS</td>
<td>3616640550</td>
<td>WE52</td>
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<td>F17</td>
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<td>F19</td>
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<td>F20</td>
<td>CASE PCB F</td>
<td>3611148800</td>
<td>ABS, VE–0856, WE52</td>
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</table>
### 12. UNIT STEAM DRYER AS & UNIT COLD SPRAY AS

<table>
<thead>
<tr>
<th>No.</th>
<th>Part Name</th>
<th>Part Code</th>
<th>Description</th>
<th>Qty'</th>
<th>Remark</th>
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</thead>
<tbody>
<tr>
<td>S</td>
<td>UNIT STEAM DRYER AS</td>
<td>3619606900</td>
<td>R–WE52S,HOT STEAM AS</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>S01</td>
<td>UNIT STEAM AS</td>
<td>3619606700</td>
<td>D–WD1351,STEAM AS</td>
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<td></td>
</tr>
<tr>
<td>S02</td>
<td>HOSE SPRAY</td>
<td>3613275100</td>
<td>UL, SILICON, ID=9.5, OD=16.5</td>
<td>0.33</td>
<td></td>
</tr>
<tr>
<td>S03</td>
<td>HOSE SPRAY</td>
<td>3613275100</td>
<td>UL, SILICON, ID=9.5, OD=16.5</td>
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<td>S04</td>
<td>HOSE SPRAY</td>
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<td>UL, SILICON, ID=9.5, OD=16.5</td>
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<tr>
<td>S05</td>
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<td>HOT SPRAY,ID=15.5</td>
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<tr>
<td>S06</td>
<td>VALVE INLET</td>
<td>3615416731</td>
<td>120V60HZ.BITRON.COLD SPRAY</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>SCREW TAPPING</td>
<td>7122401411</td>
<td>T2 TRS 4x14 MFZN</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td></td>
<td>UNIT COLD SPRAY AS</td>
<td>3619607000</td>
<td>R–WE52,COLD SPRAY AS</td>
<td>1</td>
<td></td>
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<tr>
<td>C01</td>
<td>BODY COLD SPRAY AS</td>
<td>36104PWE00</td>
<td>BODY COLD SPRAY AS</td>
<td>1</td>
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<tr>
<td>C02</td>
<td>JET NOZZLE AS</td>
<td>3618110900</td>
<td>HAGO, lO.5 WATER</td>
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<td>C03</td>
<td>NUT HEX</td>
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<td>VALVE INLET</td>
<td>3615417900</td>
<td>UL.120V60HZ.BITRON.COLD SPRAY</td>
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<td>C05</td>
<td>CAP BODY</td>
<td>3610919300</td>
<td>WE51’S COLD SPRAY BODY</td>
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<td></td>
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<td>7112401208</td>
<td>T1 TRS 4X12 SUS</td>
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</table>
13. Procedure for Reversing the Door

Door Changing

The tumble dryer come with the door hinged on the right. However, it is possible to change the door to be hinged on the left.

Following these instructions:
1. Open the door and remove the two bolts holding the hinge.

2. Then remove the door out of the front cabinet as indicated by the arrows.

3. Unscrew the four screws on the door lock on the left side of the front cabinet and move to the right side.

4. Replace the screws you removed in step 3.

5. Next insert the hinge of the door securely in place of the left side of the front cabinet.

6. Secure the hinge using the bolts you removed in step 1.
## PCB Function Specification

**1. Front PCB Function Specification**

Comprehensive function specification of the unit including operation of a 27-inch dryer by drying courses and drying functions, control of electronic devices by PCB, operation by S/W, test function, error mode, and so on.

<table>
<thead>
<tr>
<th>No.</th>
<th>Index</th>
<th>Descriptions</th>
<th>Miscellaneous</th>
</tr>
</thead>
</table>
| 1   | Features of the dryer | 1. Applied model: dryer for use in U.S. & CANADA.  
2. Power source: ELECTRIC / LNG / LPG  
3. Heating type: HEATER / GAS  
4. Voltage: PCB & MOTOR 120V 60Hz / HEATER 240V 60Hz  
5. PCB type: Front PCB (shared with other models)  
   Main PCB (2 types) : ELECTRIC, GAS ON/OFF CONTROL, | |
| 2   | Course and Operation | 1. Sensor drying courses - 7  
   Manual drying courses – 3  
   2. Setting - 7 | |
| 3   | Adopted sensors | 1. Humidity sensor  
   2. Temperature sensor: at the duct outlet | |
| 4   | Load control | 1. Motor  
   2. ELECTRIC HEATING : HEATER 2.5KW 2UNIT  
   3. GAS VALVE : ON/OFF CONTROL | |
| 5   | Display | 1. Course and operation display : Lamp LED + 18:88 | |
2. Detailed Descriptions

2-1. Setting by Courses

1) Sensor Dry Course

<table>
<thead>
<tr>
<th>DRY LEVEL</th>
<th>COURSE - SENSOR DRY</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Synthetics</td>
<td>Everyday Wear</td>
<td>Towels</td>
</tr>
<tr>
<td>Very Dry</td>
<td>1:01</td>
<td>1:05</td>
<td>1:05</td>
<td>1:10</td>
</tr>
<tr>
<td>More Dry</td>
<td>54</td>
<td>1:02</td>
<td>55</td>
<td>1:00</td>
</tr>
<tr>
<td>Normal</td>
<td>47</td>
<td>59</td>
<td>50</td>
<td>55</td>
</tr>
<tr>
<td>Less Dry</td>
<td>40</td>
<td>56</td>
<td>45</td>
<td>50</td>
</tr>
<tr>
<td>Damp Dry</td>
<td>33</td>
<td>53</td>
<td>40</td>
<td>45</td>
</tr>
</tbody>
</table>

| Dry Level Default   | Normal             | Normal       | Normal       | Normal       |
| TEMP CONTROL        | Medium             | Mid High     | High         | High         |

<table>
<thead>
<tr>
<th>DRY LEVEL</th>
<th>COURSE - SENSOR DRY</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Gentle</td>
<td>Ultra Gentle</td>
</tr>
<tr>
<td>Very Dry</td>
<td>1:00</td>
<td>55</td>
<td>-</td>
</tr>
<tr>
<td>More Dry</td>
<td>50</td>
<td>45</td>
<td>-</td>
</tr>
<tr>
<td>Normal</td>
<td>40</td>
<td>35</td>
<td>-</td>
</tr>
<tr>
<td>Less Dry</td>
<td>30</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>Damp Dry</td>
<td>20</td>
<td>20</td>
<td>25</td>
</tr>
</tbody>
</table>

| Dry Level Default   | Normal             | Normal       | Damp Dry     |
| Temp Control        | Low                | Low          | Ultra Low    |

A. Temperatures are not changed in Sensor Dry Course so the initial setting is not altered.

B. Temp Level is set to “High” while Dry Level is set to “Very Dry”.

C. All options of Dry Level can be selected in Sensor Course.

D. The course can not be changed when the unit stops operating temporarily in Sensor Dry and Manual Dry Course.
2) Manual Dry Course

<table>
<thead>
<tr>
<th>TEMP CONTROL</th>
<th>COURSE - MANUAL DRY</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Quick Dry</td>
</tr>
<tr>
<td>Time</td>
<td>30</td>
</tr>
<tr>
<td>Temp Default</td>
<td>High</td>
</tr>
<tr>
<td>DRY LEVEL</td>
<td>-</td>
</tr>
<tr>
<td>TEMP</td>
<td>Ultra Low – High</td>
</tr>
</tbody>
</table>

A. Only Temp is selected in Manual Dry Course.

B. Dry Level is not selected in Manual Dry Course and Iron Dry.

C. Operation time does not change even if Temp is changed.

D. Dry Level and Course LED are off (not selected) if Dry Time is set while only Temp is on (the default set is High).

E. Time can be changed by using More Time and Less Time buttons when Manual Dry Course and Dry Time are selected.

F. Pushing More Time or Less Time button increases or decreases time by a minute. The maximum drying time is 1:50 (minutes) and minimum 0:10 (minutes). This includes 5 minutes of cooling time.
2-2. Operation

1) Overview

➔ Different operation processes are applied to Sensor Dry Course and Manual Dry Course.
➔ Sensor Dry Course judges the condition of laundry with humidity/temperature sensors so as to decide appropriate dry level.
➔ Manual Dry Course dries laundry as per temperature conditions set by an operator.

2) Process of Sensor Dry Course

A. Power Button On

➔ “_ _ _” is displayed at 18:88 LED.
➔ Press Start Button to automatically select Normal Course.
➔ “High” of initial Beeper goes on and the previous Beeper value is displayed when you switch on the power.

B. Operation Selection

➔ Select operation with Course Switch/Button.
➔ Buttons operate as per 2-1.
➔ The selected Course/Dry Sensor/Temp./Dry Time/Signal goes on.
➔ Option LED may go on and off according to your selection.
3) Process of Manual Dry Course

A. Power Button On
   ➔ “_ _ _” is displayed at 18:88 LED.
   ➔ “Check Filter” of Custom LED goes on and off before you press Start Button.
   ➔ “High” of initial Beeper goes on and the previous Beeper value is displayed when you switch on the power.

B. Operation Selection
   ➔ Select operation with Course Switch/Button.
   ➔ “Check Filter” of Custom LED goes on and off before you press Start Button. Once the unit starts operating, “Check Filter” goes off.
   ➔ Buttons operate as per 2-1.
   ➔ The selected Course/Dry Level/Temp Control/Time Dry/Beeper goes on and Custom LED displays Dry/Cooling.
   ➔ Option LED may go on and off according to your selection.

C. Operation Process
   ➔ Once operation starts, LED of Custom LED goes off.
   ➔ Humidity data are not produced and Heater is controlled by the temperature set by Temp Control.
   ➔ Time is not changed but drying/cooling continues during the time set initially.

4) Process of Time Dry Course

A. Selection of Time Dry
   ➔ Course Selection goes off.
   ➔ Dry Level can not be selected (Default: “High”) but only Temp Control.
   ➔ Buttons operate as per 2-1 (Same as Manual Dry).

B. Operation Process
   ➔ The process is the same as Manual Dry.
   ➔ “Check Filter” of Custom LED goes off if you press Start Button.
2-3. Operation of Load and Sensor

1) Operation of Heater - Electric Type

➔ On/Off goes on according to temperatures set or measured by the sensor. Regardless of the control by the microcomputer, however, the heater may go off if a temperature reaches Thermostat Off Temperature as per outlet conditions.

➔ As regards temperature setting, refer to 2-4 (button operation and temp control).

➔ If you stop the unit temporarily, the machine stops operating until it resumes the function.

➔ If Sensor Course is selected and Temp Control is set to Low or Ultra Low, only the outer heater operates. Two heaters function if other temperatures are selected.

➔ If Manual Course is selected and Temp Control is set to Low or Ultra Low, only the outer heater operates. Two heaters function if other temperatures are selected.

➔ If Time Dry Course is selected and Temp Control is set to Ultra Low, only the outer heater operates. Two heaters function if the temperature is set to Low.

➔ The heater goes off if Cooling or Wrinkle Care is selected.

➔ The heater goes off if Air-Dry of Manual Course is selected, for Temp Control is not available.

2) Operation of Gas Valve - On/Off Type

➔ Gas valve is continuously turned on/off according to the temperature measured by temperature sensor to reach the set temperature. However, when reaching the temperature for thermostat off by exhaust conditions, gas valve can be turned off regardless of MICOM control.

➔ For temperature set values, refer to 4) Temp Control of Section 2-4.

➔ At temporary suspension, operation is stopped. Then, it starts again as the cycle begins.

➔ Gas valve is not turned off in cooling and winkle care cycle.

➔ In manual course, gas valve for air dry of which temp control is not selected does not operate.

3) Operation of the Motor

➔ The motor continues its function once operation starts.

➔ The motor stops if you stop the unit temporarily.

➔ The motor continues to operate during Cooling.

➔ If Cooling or Wrinkle Care is selected, the motor turns on for 10 seconds and off for 5 minutes and 50 seconds.

4) Door Control

➔ The heater and motor operate only the door is closed.

➔ If the door is opened during the operation, the heater and motor turn off. If you press Start Button while the door is opened, LED goes on for a second.

➔ The unit operates only after the door is closed.
2-4. Operation of Buttons

1) Power
   A. The electric power switch turns on/off the display.
   B. Automatic switch off function
      ① Power is immediately switched off after an operation is done.
      ② Power is switched off after 10 minutes if no button is selected while power is on.
   C. Initial display when power goes on
      ① LED of all courses goes on in order.
      ② "_ _ _" is displayed at 18:88 LED.

2) Start/Pause
   A. Normal Course is operated if you press the button after switching on the power.
   B. Operation starts after you select one of 11 automatic and program courses.
   C. If you press this button while the unit is in operation, the on-and-off indicator goes on and the machine stops.
      If you press the button again, the operation is resumed.
   D. If you press Pause Button, other buttons or the encoder switch does not function. That is, you can not change
      the operation once it starts unless switching off the power.
      ① Power is immediately switched off after an operation is done.
      ② Power is switched off after 10 minutes if no button is selected while power is on.

3) Dry Level
   A. If you press this button, the following is displayed in order.
      Normal-More Dry-Very Dry-Damp Dry-Less Dry-Normal
   B. Each level targets humidity as follows.

<table>
<thead>
<tr>
<th>Dry Level</th>
<th>Target Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Damp Dry</td>
<td>80% ~ 92%</td>
</tr>
<tr>
<td>Less Dry</td>
<td>88% ~ 96%</td>
</tr>
<tr>
<td>Normal</td>
<td>92% ~ 100% or higher</td>
</tr>
<tr>
<td>More Dry</td>
<td>94% ~ 100% or higher</td>
</tr>
<tr>
<td>Very Dry</td>
<td>96% ~ 100% or higher</td>
</tr>
</tbody>
</table>

   C. You can select all levels in Sensor Dry Course but none in Manual Dry Course.
4) Temp Control
   A. If you press this button, the following is displayed in order.
      Medium - Mid High - High - Ultra Low - Low - Medium
   B. Each level targets temperatures as follows. (Target temperatures: Thermostat fan)

<table>
<thead>
<tr>
<th>Level</th>
<th>Target Temperatures</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Heater-Off(°C)</td>
</tr>
<tr>
<td>High</td>
<td>63</td>
</tr>
<tr>
<td>Mid High</td>
<td>59</td>
</tr>
<tr>
<td>Medium</td>
<td>55</td>
</tr>
<tr>
<td>Low</td>
<td>50</td>
</tr>
<tr>
<td>Ultra Low</td>
<td>46</td>
</tr>
</tbody>
</table>

C. This is available only in Manual Dry Course not Sensor Dry Course.

5) Time Dry
   A. If you press this button, the following is displayed in order.
      40 - 50 - 60 - 20 - 30 - 40
   B. Pushing More Time or Less Time button increases or decreases time by a minute. The maximum drying time is 1 hour and 50 minutes and minimum 10 minutes (the indicated time includes 5 minutes of cooling).
   C. If you select Time Dry, Dry Level and Course LED go off. That is, you can not choose Dry Level and Course but only temperatures (default is High).
   D. 5 levels of temperatures are available.

6) Beeper
   A. If you press this button, the following is displayed in order.
      'High - ▼ - Low - ▼ - Off'
   B. Then, the volume of the beeper changes.
   C. You can not change the beeper while the unit is in operation or stops temporarily.

7) More Time
   A. Pressing this button increases time by a minute.
   B. The time increases up to 1:55 (minutes)
   C. You can change time in Manual Dry Course and Time Selection. Also Wrinkle Care can be selected/cancelled.
8) Less Time
   A. Pressing this button decreases time by a minute.
   B. The time decreases up to 00:15 (minutes)
   C. You can change time in Manual Dry Course and Time Selection. Also Anti-crease can be selected/cancelled.

9) Delay Start
   A. Preset time indicates starting time of the cycle.
   B. When pressing Delay Start button, time changes in the order of 1 → 2 → 3 → 4 → ... → 12 → 1.
   C. After selecting preset time, cycle change is possible before entering preset mode by pressing Start/Stop button. However, cycle cannot be changed after entering preset mode.
   D. To preset operation, select cycle → select preset time → press Start/Stop button.
   E. The selected cycle is displayed for 3 seconds when pressing Start/Stop button after entering preset mode to check the selected cycle.

10) Rack Dry
    A. If you press Rack Dry button, time is set to 55 minutes without default temperature.
    B. Only Low or Ultra Low is selected with the operation of Heater 1.
    C. You can adjust time with More/Less button.
    D. Once Rack Dry is chosen, you can not select Anti-crease, Damp Signal.

11) Anti-crease
    A. Selecting Anti-crease does not change course time.
    B. In order to prevent wrinkle, the motor continues to run for 10 seconds and stops for 5 minutes and 50 seconds while the heater is off after all the operation (including cooling) finishes.
    C. The course stops only you press Start/Stop or Power button.
    D. You can select/cancel this course during operation or pause.

12) Anti Static
    A. The Anti Static injects steam late in the drying cycle to reduce the static electricity caused by dry fabrics rubbing together.
    B. The Anti-Static the case that setting became drying was over to an alternative possibility course, and a Steam + cooling function is progressed. (A selectable course : Everyday/Normal, Towel, Bulky)

13) Damp Signal
    A. This button works only in Sensor Dry Course without changing time.
    B. The unit beeps every 3 seconds after the target humidity is achieved until the operation is finished.
    C. The beep stops if the door is opened or operation stops. When the operation is resumed, the beeper is off.
### 2-5. Option

<table>
<thead>
<tr>
<th>Programs</th>
<th>Dry level</th>
<th>Dry temperature</th>
<th>More Time</th>
<th>Less Time</th>
<th>Rack dry</th>
<th>Anti crease</th>
<th>Delay start</th>
<th>Damp signal</th>
<th>Anti static</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulky items</td>
<td>Default</td>
<td>Normal</td>
<td>High</td>
<td>X</td>
<td>O</td>
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<td></td>
<td>Select</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Towels</td>
<td>Default</td>
<td>Normal</td>
<td>High</td>
<td>X</td>
<td>O</td>
<td>O</td>
<td>O</td>
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<td>All</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Everyday wear</td>
<td>Default</td>
<td>Normal</td>
<td>Mid.High</td>
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<td>O</td>
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<td>O</td>
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</tr>
<tr>
<td>Gentle</td>
<td>Default</td>
<td>Normal</td>
<td>Low</td>
<td>X</td>
<td>O</td>
<td>O</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select</td>
<td>All</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultra gentle</td>
<td>Default</td>
<td>Normal</td>
<td>Low</td>
<td>X</td>
<td>O</td>
<td>O</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select</td>
<td>All</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Iron dry</td>
<td>Default</td>
<td>Damp dry</td>
<td>Ultra low</td>
<td>X</td>
<td>O</td>
<td>O</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quick dry</td>
<td>Default</td>
<td>-</td>
<td>High</td>
<td>O</td>
<td>O</td>
<td>X</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select</td>
<td>X</td>
<td>Ultralow–high</td>
<td>O</td>
<td>O</td>
<td>X</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>Steam Breeze</td>
<td>Default</td>
<td>-</td>
<td></td>
<td>x</td>
<td>x</td>
<td>x</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select</td>
<td>-</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air dry</td>
<td>Default</td>
<td>-</td>
<td></td>
<td>O</td>
<td>O</td>
<td>X</td>
<td></td>
<td>x</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Select</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A. If you select Rack Dry, the previous course and operation goes off.
B. If you select Rack Dry, Anti-crease or Damp Signal is not available.
2-6. Error Mode

1) H1 error - Humidity sensor error
   ① This occurs when there is a short defect in the humidity sensor (the indicated value is lower than 24)
   ① The unit buzzes, indicating the error, every 10 minutes for 10 seconds.
   ③ The error display goes off when the power is switched on/off.

2) H2 error - Drying temperature sensor open/short error
   ① This occurs when there is a defect in the drying temp sensor or disconnection.
   ② The unit buzzes, indicating the error, every 10 minutes for 10 seconds.
   ③ The error display goes off when the power is switched on/off.

3) H5 error - Heater overheated (ELECTRIC TYPE)
   ① This occurs when the temp sensor indicates 85° or higher.

4) Heater disconnection check and H4/H6 error (ELECTRIC TYPE)
   ① No error is indicated in case of actual consumer use, for this mode checks heater defects through customer service.
   ② The defect must be checked without any load.
   ③ How to enter the mode: Push the power button while Dry Beep and More buttons are pressed at the same time.
   ④ Then, Heater 1, Heater 2, and the motor are turned on.
   ⑤ Check the temp initially and 2 minutes later. Measure the difference.
      If the difference is 20°C or greater, “OK” is indicated.
      If between 5°C~19°C, “H6” is displayed, indicating disconnection of one heater.
      If 5°C or below, “H4” is displayed, indicating disconnection of two heaters.

5) H3 Error - Flame Detector Open Defect (Gas Type)
   ① Prior to igniter operation, it is checked whether flame detector is attached. H3 error occurs when flame detector is still open after 300 seconds.

6) H7 Error – Gas Valve Defect or Gas Blocked-off (Gas Type)
   ① H7 error occurs if flame detector maintains short state when operating gas valve after normal operation of flame detector and igniter (error displayed after 5 repetitions).

7) H8 Error – Igniter Defect or Flame Detector Short (Gas Type)
   ① Flame detector must open within 120 seconds after igniter operation. H8 error occurs when the initial state of short is maintained after the 120 seconds (error displayed after 5 repetitions).
2-7. Test Mode

1) PCB TEST MODE(ELECTRIC TYPE)
   A. How to enter the mode: switch the power on while pressing Dry Level and Time Dry buttons.
   B. Operation order: check load by pressing Time Dry or Dry Level Button continually.

- Press Time Dry Button

<table>
<thead>
<tr>
<th>No.</th>
<th>Operation Load</th>
<th>DISPLAY</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Motor On</td>
<td>1 : nr</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Heater 1 on</td>
<td>2 : H1</td>
<td>electric current : 13A</td>
</tr>
<tr>
<td>3</td>
<td>Heater 2 on</td>
<td>3 : H2</td>
<td>electric current : 23A</td>
</tr>
<tr>
<td>4</td>
<td>Heater 1,2 off</td>
<td>4 : OFF</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>steam Heater on</td>
<td>5 : H3</td>
<td>hot spray only</td>
</tr>
</tbody>
</table>

- Press Dry level Button

<table>
<thead>
<tr>
<th>No.</th>
<th>Operation Load</th>
<th>DISPLAY</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Motor On/steam valve 1,2 on</td>
<td>1 : nr</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Humidity sensor check</td>
<td>2 : Number</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>thermistor check</td>
<td>3 : Number</td>
<td>display current temperature.</td>
</tr>
<tr>
<td></td>
<td>Door Open</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Door close, press Start button</td>
<td>4 : Number</td>
<td>Door S/W check, Motor On</td>
</tr>
<tr>
<td></td>
<td>Power Off</td>
<td></td>
<td>Power Off</td>
</tr>
</tbody>
</table>

2) PCB TEST MODE(GAS TYPE)
   A. How to enter the mode: switch the power on while pressing Dry Level and Time Dry buttons.
   B. Operation order: check load by pressing Time Dry Button continually.

- Press Time Dry Button

<table>
<thead>
<tr>
<th>No.</th>
<th>Operation Load</th>
<th>DISPLAY</th>
<th>Miscellaneous</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Motor On</td>
<td>1 : nr</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>steam valve 1 on</td>
<td>2 : U1</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>steam valve 2 on/steam Heater on</td>
<td>3 : U2/H3</td>
<td>cold/hot</td>
</tr>
<tr>
<td>4</td>
<td>Humidity sensor check</td>
<td>4 : Number</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>ignition on</td>
<td>5 : Number</td>
<td>operate up to 50°C</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>OK</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>display at 50°C</td>
</tr>
<tr>
<td></td>
<td>Power Off</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
3. ELECTRIC DRYER PCB PIN LAYOUT

Motor operating relay

Trans

Regulator heat sink

Heater operating relay

Steam heater

Electrolytic capacitor

Front PCB S/W, LED

Sensor2

Sensor, : GND

[Diagram with labeled pins]
4. GAS DRYER PCB PIN

- **GAS VALVE Proportional controller**
- **FRONT PCB S/W, LED**
- **IGNITER Operating relay**
- **STEAM HEATER Operating relay**
- **VALVE control**
- **FLAME DETECTOR**

- **AC INPUT 120V**
  - ① block ② orange
  - ③ black ④ gray
  - ⑤ brown ⑥ blue

- **VALVE**
  - ① block ② gray
  - ③ blue ④ blue

- **FLAME DETECTOR**
  - ① pink ② MOTOR
  - ③ white ④ IGNITOR

- **PANEL**
  - ① purple ② DOOR CHECK
  - ③ blue ④ Steam Valve
  - ⑤ red ⑥ Steam heater

- **SENSORS**
  - ① blue ② Orange ③ Lamp
  - ④ none ⑤ green

- **TEMP SENSOR**
  - ① red ② Humidity SENSOR2
  - ③ red ④ Humidity SENSOR1

- **GROUND**
  - ① none ② orange

- **LED**
  - ① blue ② Steam heater
  - ③ red ④ Steam Valve
  - ④ pink ⑤ MOTOR
  - ⑥ white ⑦ IGNITOR

- **IGNITER**
  - ① purple ② DOOR CHECK

- **STEAM HEATER**
  - ① blue ② Steam heater
  - ③ red ④ Steam Valve

- **VALVE**
  - ① block ② gray

- **IGNITOR**
  - ① purple ② DOOR CHECK

- **DOOR CHECK**
  - ① blue ② Steam Valve

- **Steam Valve**
  - ① block ② gray

<table>
<thead>
<tr>
<th>Trouble</th>
<th>Symptom</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td>Service wire problem</td>
<td>A fault of Lead-in wire power</td>
<td>Call the electricity provider or an expert</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fuse disconnection of service wire</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Dryer wire problem</td>
<td>Disconnection of the power cable (Connection fault)</td>
<td>Replace the power cable</td>
</tr>
<tr>
<td></td>
<td>Electric parts</td>
<td>Disconnection of a controller terminal pin and connector</td>
<td>Plug in the connector</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Connection/terminal contact fault of a terminal block</td>
<td>Connect the wire</td>
</tr>
<tr>
<td></td>
<td>Voltage problem</td>
<td>Fuse disconnection</td>
<td>Replace the fuse</td>
</tr>
<tr>
<td></td>
<td>PCB problem</td>
<td>Rating for gas type: 120V</td>
<td>Check the rating</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rating for electric type: 120V/240V</td>
<td>Check the rating</td>
</tr>
<tr>
<td>Noise at the initial</td>
<td>Pin connect contact fault</td>
<td>Check the rating</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Circuit fault</td>
<td>Replace PCB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S/W fault of Panel F</td>
<td>Replace Panel F PCB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Microcomputer error</td>
<td>Replace PCB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Broken plate</td>
<td>Replace PCB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Harness disconnection</td>
<td>Replace/Connect Harness</td>
</tr>
<tr>
<td><strong>Noise</strong></td>
<td>operation Noise during the</td>
<td>Installation</td>
<td>Place the unit on the flat ground</td>
</tr>
<tr>
<td></td>
<td>operation</td>
<td>Impurities in the drum</td>
<td>Remove the impurities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Impurities on the fan</td>
<td>Disassemble the unit and remove the impurities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Loosened fan</td>
<td>Tighten the fan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Excessive laundry</td>
<td>Reduce the laundry</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Impurities between the drum and SUP F,R</td>
<td>Remove the impurities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Friction of the belt</td>
<td>Replace the belt</td>
</tr>
</tbody>
</table>
Dryer Installation

1. Installation Order
   ① Place the dryer on the flat ground. Keep the unit at least 12 inch away from the wall.

   ② Check the 4 legs and the gap between the unit and floor. The dryer should stand stably when you try to move the unit to the left or right.

   ➤ Balance the unit on the floor with the leg adjust as so that the inclination is not greater than 1 inch.

2. Outlet Duct Connection

   ➤ Never use a plastic or aluminum foil duct.
   ➤ Use a durable 4-inch metal duct (the duct outlet is provided with the dryer. Ask local shops for an additional duct).
   ➤ Make the duct outlet the shortest possible length.
   ➤ Clean the duct before installation.
   ➤ Do not use a bent duct.
   ➤ Use aluminum tape for connection and rub for close adhesion.
ELECTRICAL REQUIREMENTS FOR ELECTRIC DRYERS

The following are additional instructions regarding electrical connections and requirements for electric dryers.

---

**Important Warning**

To help prevent fire, electric shock, serious injury or death, the wiring and grounding must conform to the latest edition of the National Electrical Code, ANSI/NFPA 70 and all applicable local regulations. Please contact a qualified electrician to check your home’s wiring and fuses to ensure that your home has adequate electrical power to operate the dryer.

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**120V/ 240V, 60 Hertz, 3-Wire Installation**

**Instructions for Grounding of your Electric Dryer:**

a) This dryer must be connected to a grounded metal, permanent wiring system or an equipmentgrounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the dryer.

b) The dryer has its own terminal block that must be connected to a separate 60 Hertz single phase AC circuit, fused at 30 Amperes (the circuit must be fused on both sides of the line).

ELECTRICAL SERVICE FOR THE DRYER SHOULD BE OF MAXIMUM RATE VOLTAGE LISTED ON THE NAMEPLATE.

DO NOT CONNECT DRYER TO 110, 115, OR 120 VOLT CIRCUIT.

c) If branch circuit to dryer is fifteen feet (4.50 m) or less in length, use U.L. (Underwriters Laboratories) listed No. 10 A.W.G. wire (copper wire only), or as required by local codes.

If over fifteen feet (4.50 m), use U.L. (Underwriters Laboratories) listed No. 8 A.W.G. wire (copper wire only), or as required by local codes.

Allow sufficient slack in wiring so dryer can be moved from its normal location when necessary.

d) The power cord (pigtail) connection between wall receptacle and dryer terminal block IS NOT supplied with dryer.

Type of pigtail and gauge of wire must conform to local codes and with instructions mentioned on the following pages.

e) The method of wiring the dryer is optional and subject to local code requirements. Refer to examples on next page.

f) You must select the method by which to wire your dryer according to local code and ordinance requirements. Sample methods are included in the following pages.
Review the following options to determine the appropriate electrical connection for your home:

Use the instructions in this section if your home has a 4-wire receptacle (NEMA type 14-30R) and you will be using a UL listed, 120/240 volt minimum, 30 amp, dryer power supply cord.

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

Use the instructions in this section if your home has a 3-wire receptacle (NEMA type 10-30R) and you will be using a UL listed, 120/240 volt minimum, 30 amp, dryer power supply cord.

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

**Important:** Grounding through the neutral conductor is prohibited for (1) new branch-circuit installations, (2) mobile homes, (3) recreational vehicles, and (4) areas where local codes prohibit grounding through the neutral conductor. Prepare minimum 5 ft (1.52 m) of length in order for dryer to be replaced. First, peel 5 inches (12.7 cm) of covering material from end. Strip 5 inches of ground wire insulation. After cutting 1 1/2 inch (3.8 cm) from 3 other wires peel insulation back 1 inch (2.5 cm). 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 to the right) 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 wires 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.
   Be sure that all terminal block nuts are on tight and power cord is in right position.
3-wire connection : Direct wire

**Important**: Grounding through the neutral conductor is prohibited for (1) new branch-circuit installations, (2) mobile homes, (3) recreational vehicles, and (4) areas where local codes prohibit grounding through the neutral conductor. Prepare minimum 5 ft (1.52 m) of length in order for dryer to be replaced.

First, strip 3 1/2 inches (8.9 cm) of outer sheath from end and strip 1 inch of insulation from each conductor.

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 tighten the screw securely.

1. Connect neutral wire (white) of power cord to center terminal block screw.
2. Connect red and black wires to the left and right terminal block screws.
3. Make sure that the strain relief screw is tightened.

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.

1. Connect neutral wire (white) of power cord to center terminal block screw.
2. Connect red and black wires 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.
   Be sure that all terminal block nuts are on tight and power cord is in 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 1: Optional 3-wire connection.

---

**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. Connect neutral wire (white) of power cord to center terminal block screw.
2. Connect ground wire of appliance and neutral wire of power cord to center terminal block screw.
3. Connect red and black wires to the left and right terminal block screws.
4. Make sure the strain relief screw is tightened. Be sure that all terminal block nuts are on tight and power cord is in right position.
5. Connect independent ground wire from external ground connector to proper ground.
<table>
<thead>
<tr>
<th>No.</th>
<th>Service</th>
<th>Parts</th>
<th>Notices</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Replacing the humidity sensor</td>
<td>Humidity sensor</td>
<td>Be careful of the terminal connection</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Be careful of loose attachment</td>
</tr>
<tr>
<td>2</td>
<td>Replacing/fixing panel f assy</td>
<td>PCB/BUTTON/HARNESS</td>
<td>Be sure that the panel f assy does not interfere in the drum after the service</td>
</tr>
<tr>
<td>3</td>
<td>Replacing the lifter</td>
<td>LIFTER</td>
<td>Remove only the plate top to replace the part</td>
</tr>
<tr>
<td>4</td>
<td>Replacing roller assy</td>
<td>ROLLER</td>
<td>Be cautious of the direction of the roller/insertion of the washer</td>
</tr>
<tr>
<td>5</td>
<td>Replacing the terminal block</td>
<td>TERMINAL BLOCK</td>
<td>Be careful of wiring connection</td>
</tr>
<tr>
<td>6</td>
<td>Replacing the heater</td>
<td>Drying heater</td>
<td>Do not use oversized screws.</td>
</tr>
<tr>
<td>7</td>
<td>Replacing the sensor</td>
<td>Temp and safety sensor</td>
<td>Be sure of the proper assembly. (Loosening should be little)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Be careful that no object (e.g. screws) is dropped into the heater when assembling.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Be careful of the direction / insertion of the connector. Use only standard screws.</td>
</tr>
<tr>
<td>8</td>
<td>Door assembly</td>
<td>Door hinge</td>
<td>Be careful not to scratch chromium plating when fastening the screws to fix the door as. A claim is expected.</td>
</tr>
<tr>
<td>9</td>
<td>Disassembly/assembly of the door as</td>
<td>Door as</td>
<td>Be careful about the up/downward direction of door glass and insertion of a gasket. Use only standard screws.</td>
</tr>
<tr>
<td>10</td>
<td>Disassembly/assembly of the motor as</td>
<td>MOTOR AS BELT</td>
<td>Be careful not to nip the finger when assembling the motor (hold the edge of the motor).</td>
</tr>
<tr>
<td></td>
<td>Replacing the belt</td>
<td></td>
<td>Be careful about the direction of the belt and insertion of a fan/case fan (incorrect assembly may cause noise) as well as the connector.</td>
</tr>
<tr>
<td>11</td>
<td>Disassembling the drum</td>
<td>DRUM roller of sup r sup f. before fastening.</td>
<td>Do not drop the motor. Be sure that he drum is accurately put into the</td>
</tr>
<tr>
<td>Part Name</td>
<td>Part Code</td>
<td>Type No</td>
<td>Rating</td>
</tr>
<tr>
<td>--------------------</td>
<td>-------------</td>
<td>------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Lamp AS</td>
<td>3612625300</td>
<td>Lamp Holder: 4000 series</td>
<td>75W, 125V</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lamp Base: E12</td>
<td>15W, 125V</td>
</tr>
<tr>
<td>Switch Door</td>
<td>3619047700</td>
<td>SPE110F-1D3</td>
<td>7.5A 125V / 5A 250V AC</td>
</tr>
<tr>
<td>Thermistor Fan</td>
<td>361AAAAC20</td>
<td>CWT-DEW-1C18-A</td>
<td>5V R40=26.065KΩ R90=4.4278KΩ</td>
</tr>
<tr>
<td>Switch Micro</td>
<td>3619047500</td>
<td>GSM-V1622A2</td>
<td>125V/250V 16A N-C</td>
</tr>
<tr>
<td>Heater</td>
<td>3612802500</td>
<td>TGE-24050H</td>
<td>120V/2500W, 240V/5000W, Ni/Cr</td>
</tr>
<tr>
<td>Motor Dryer</td>
<td>36189L5D00</td>
<td>S58NXSDD-6989</td>
<td>120V 60Hz 5.9A CL.B</td>
</tr>
<tr>
<td>Thermostat Fan</td>
<td>3619047900</td>
<td>PW3N</td>
<td>85off 75on 125V/15A 250V/7.5A</td>
</tr>
<tr>
<td>Thermostat Hi-Limit</td>
<td>3619047600</td>
<td>60T11</td>
<td>125 Off 94 On 125V/25A 250V/25A</td>
</tr>
<tr>
<td>Thermostat cut-out</td>
<td>3619047800</td>
<td>PW3V</td>
<td>140Off -30On 125V/25A 250V/25A</td>
</tr>
<tr>
<td>Part Name</td>
<td>Part Code</td>
<td>Type No</td>
<td>Rating</td>
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<tr>
<td>Lamp AS</td>
<td>3612625300</td>
<td>Lamp Holder: 4000 series</td>
<td>75W, 125V</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Lamp Base: E12</td>
<td>15W, 125V</td>
</tr>
<tr>
<td>Switch Door</td>
<td>3619047700</td>
<td>SPE110F-1D3</td>
<td>7.5A 125V / 5A 250V AC</td>
</tr>
<tr>
<td>Thermistor Fan</td>
<td>361AAACC20</td>
<td>CWT-DEW-1C18-A</td>
<td>5V R40=26.065KΩ R90=4.4278KΩ</td>
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<tr>
<td>Switch Micro</td>
<td>3619047500</td>
<td>GSM-V1622A2</td>
<td>125V/250V 16A N-C</td>
</tr>
<tr>
<td>Unit Steam AS</td>
<td>3619606700</td>
<td>MSS13</td>
<td>120V 60Hz 1300W</td>
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<tr>
<td>Motor Dryer</td>
<td>36189L5D00</td>
<td>S58NXSDD-6989</td>
<td>120V 60Hz 5.9A CL.B</td>
</tr>
<tr>
<td>Igniter AS</td>
<td>36189L5800</td>
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<td>Flame Sensor</td>
<td>3614825700</td>
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<td>120V 60Hz 5.75A</td>
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<tr>
<td>Thermostat Hi-Limit</td>
<td>3619047610</td>
<td>60T21</td>
<td>95°C Off, 70°C On 125V/25A 250V/25A</td>
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<tr>
<td>Thermostat Cut-Out</td>
<td>3619047810</td>
<td>PBR-380 N110</td>
<td>110°C Off, -35°C On 125V/15A 250V/7.5A</td>
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<tr>
<td>Valve Gas AS</td>
<td>3615417200</td>
<td>&quot;DEGB-1011, LPG&quot;</td>
<td>2.0~3.5 kPa, 120V 0.07A</td>
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<tr>
<td>Valve Gas AS</td>
<td>3615417300</td>
<td>&quot;DEGB-1011, LNG&quot;</td>
<td>1.0~3.5 kPa, 120V 0.07A</td>
</tr>
</tbody>
</table>

* Parts surrounded by dotted line are exclusively for gas dryer. Other parts are common parts for electric/ gas dryer.
1. Function
   • This is a bimetal-type switch which protects the clothes from damage by overheating.
   • If the exhaust air is too hot, this thermostat stops the motor and after the air is cooled down, it restarts the motor.

2. Specification
   • A bimetal thermostat with the terminals normally connected
   • Electric rating: 15A at 125V
   • Opening temperature: 85±5°C, Closing temperature: 70±5°C
   • Type name: PW-3N

3. Checking method of malfunction
   • If temperatures are normal, the terminals of this part are connected to each other.
   • Put the round metal part into boiling water and check if the resistance between the terminals drops to 0.3 or below.
   • Put the same part into cold water and check if the terminals are opened.
   • If the terminals do not react as mentioned above, replace them.

4. Procedure of replacement
   ① Plate Top remove
   ② Panel F Ass'y remove
   ③ Cabinet Front Ass'y remove
   ④ Frame Upper remove
   ⑤ Drum Ass'y remove
   ⑥ check the position of the part
   ⑦ Remove the wires and screws to disassemble the part.
   ⑧ Assemble the parts in reverse order.
1. Function
   • This is a bimetal-type switch which protects the heater from overheating.
   • If the heater is overheated abnormally, this thermostat cuts off the heater PERMANENTLY.
   • Note that this thermostat is NON-RESETTABLE; if it is opened, it should be replaced by new one.

2. Specification
   • A bimetal thermostat with the terminals normally connected
     • Electric rating : 25A at 125V
     • Opening temperature : 140±5°C, Closing temperature : -35°C
     • Type name : PW-3N

3. Checking method of mal-function
   • If temperatures are normal, the switch is not opened.
   • If the switch is opened (the resistance between the terminals is 100M or higher), replace it.
   • Note) The switch is resettable under -35°C but the temperature can not be achieved in a household refrigerator.

4. Procedure of replacement
   1. Remove the back cover.
   2. Check the position of the part.
   3. Remove the wires and screws to disassemble the part.
   4. Assemble the parts in reverse order.
1. **Function**
   - This is a bimetal-type switch which controls the heater operation.
   - If the heater is too hot, this thermostat stops the heater and after the heater is cooled down, it restarts the heater.

2. **Specification**
   - A bimetal thermostat with the terminals normally connected
   - Electric rating : 25A at 125V
   - Opening temperature : 125±4°C, Closing temperature : 94±5.5°C
   - Type name : 60T

3. **Checking method of mal-function**
   - After 3 minutes of the air dry program, the terminals of this part are connected to each other.
   - Press the power and start buttons while you push the door switch after opening the door.
   - Check if the heater operates after the drum starts rotating.
     (To do this, check if the heater turns red or feel warm air in the drum with your hands).
   - If the heater operates, run the air dry program for more than 3 minutes after closing the door.
   - Switch off the power and measure the resistance between the terminals. If the value is greater than 1, replace the switch.

4. **Procedure of replacement**
   ① Remove the back cover.
   ② Check the position of the part
   ③ Remove the wires and screws to disassemble the part.
   ④ Assemble the parts in reverse order.
Lamp Assembly

Part Code : 3612625300

1. Function
   • This is a lamp assembled with its bracket and window.
   • If the user opens the door, the door switch gives electric power to this lamp and it turns on.

2. Specification
   • An assembly of an electric lamp, bracket and window.
   • Power consumption : 15W at 120V
   • Type name : TGE-12015L

3. Checking method of mal-function
   • The lamp is turned on when the door is opened.
   • Run the dryer by pressing the power and start buttons.
   • As the drum begins rotating, check if the lamp is turned on after opening the door.
     Cf) If the drum does not rotate, check the door switch, belt switch, and thermostat fan.
   • If the lamp is still off, remove panel ass'y and check if 120v voltage is applied to the lamp.
   • If the lamp is off even though the 120v voltage is being applied, replace the lamp.
     Cf) If 120v voltage is not applied to the lamp, replace the door switch.

4. Procedure of replacement
   ① Plate Top remove
   ② Panel F Ass'y remove
   ③ Cabinet Front Ass'y remove
   ④ Remove the wires and screws to disassemble the part.
   ⑤ Assemble the parts in reverse order.
   ⑦ Remove the wires and screws to disassemble the part.
   ⑧ Assemble the parts in reverse order.
1. Function

• This is a switch that checks whether the door is open or closed.
• If the user opens the door, this switch disconnects power supply to the motor and turns the lamp on.
• If the user closes the door, this switch connects power supply to the motor and turns the lamp off.

2. Specification

• A push switch - stroke 70mm, tree terminals
  pushed-down : COM and NO are connected (NO are connected to motor)
  free state : COM and NC are connected (NC are connected to door lamp)
• Electric rating : 7.5A 125V
• Type name : SPE110F

3. Checking method of mal-function

• This switch applies power to the motor when the door is closed and to the lamp when the door is opened.
• Run the dryer by pressing the power and start buttons.
• As the drum begins rotating, check if the lamp is turned on after opening the door.
• If the drum does not rotate, check the door switch contact.
  Cf) Check a belt switch and thermostat fan also for the problem.
• If the lamp is still off while the drum is running, remove panel F ass'y and check if 120v voltage is applied to the lamp.
• If 120v voltage is not applied to the lamp, replace the door switch.
  Cf) If the lamp is off even though the 120v voltage is being applied, replace the lamp.

4. Procedure of replacement

① Plate Top remove
② Panel F Ass'y remove
③ Cabinet Front Ass'y remove
④ Remove the wires. Press both ends of the switch and pull.
⑤ Assemble the parts in reverse order.
Heater Assembly

Part Code: 3612802500

1. Function

- This is an assembly that heats air in the drum.
- Two 2500-W upper/lower heaters are connected in a parallel circuit, producing 5,000W
- According to the program set, either one or two heaters operate.

2. Specification

- Two heaters with the same specification are connected in a parallel circuit.
- Single heater: Ni/Cr wire 0.8mm, 6 coil turns, 2500W rated output based on 240V
- Electric rating: 240V 5000W (2500W x 2)
- Type name: TGE-24050H

3. Checking method of mal-function

- Check if the resistance of both ends is 17.3~25.9.
  (For your safety and accurate measurement, check the resistance after running ‘Dry Air’ program for more than 5 minutes).
- If the resistance is beyond the range, replace the heater.
- Do not use a heater of which the coils have too narrow width or drooped excessively.

4. Procedure of replacement

1. Remove the cover back.
2. Remove the wires of duct inlet ass’y and screws to disassemble the part.
   - Loosen the 4 screws as indicated with a circle.
3. Remove all screws of duct inlet ass’y and detach the duct inlet front.
4. Remove the heater and install a new one.
5. Assemble the parts in reverse order.
Belt Switch (Switch Micro)

Part Code : 3619047500

1. Function
   • The switch cuts the power supply to the motor when a belt is broken.
   • The switch is on when the belt has adequate tension but off when the belt gets loosened or broken, blocking the power supply to the motor.

2. Specification
   • Micro switch with two terminals, NC (normally closed) type
     free state : COM and NO are connected
     pushed down : COM and NC are disconnected
   • Electric rating : 250V 16A 1/2HP
   • Type name : GSM-V1622A2

3. Checking method of mal-function
   • The switch is in normal operation if the drum rotates.
   • Start the unit and check if the drum operates.
   • If the drum fails to rotate, press the power button to stop the dryer and then again to check if the motor runs.
   • If you can not hear the running of the motor, disassemble the dryer and check the belt switch contact.
   • Press the lid of the belt switch. If the resistance between contacts is greater than 1, replace the belt.

4. Procedure of replacement
   ① Plate Top remove
   ② Panel F Ass'y remove
   ③ Cabinet Front Ass'y remove
   ④ Frame Upper remove
   ⑤ Drum Ass'y remove
   ⑥ Check the position of the part.
   ⑦ Remove wires and 2 screws that fix the switch.
   ⑧ Assemble the parts in reverse order.
Thermistor Fan

Part Code: 361AAAAC20

1. Function
   • The fan senses the temperature of exhaust air.
   • The higher the temperature is, the smaller the resistance is.

2. Specification
   • Thermistor with following temperature-resistance characteristic.
     at 90°C : R = 4.43 kΩ
     at 40°C : R = 26.07 kΩ
   • Type name: CWT-DWE-1C18-A

3. Checking method of malfunction
   • If the resistance between terminals is within the adequate range, the fan is in
     normal operation.
   • You can test the resistance of the thermistor as follows.
     - Put the metal rod into cold water (10~20°C): 40 within 30 seconds
     - Put the metal rod into boiling water (95~100°C): 4 within 30 seconds
   • If 'H2' error is displayed when you press the power and start button, the thermistor is not connected so
     replace it.

4. Procedure of replacement
   ① Plate Top remove
   ② Panel F Ass’y remove
   ③ Cabinet Front Ass’y remove
   ④ Frame Upper remove
   ⑤ Drum Ass’y remove
   ⑥ Check the position of the part.
   ⑦ Remove wires and 1 screw to detach the part.
   ⑧ Assemble the parts in reverse order.
Motor Dryer

Part Code: 36189L5D0

1. Function
- The motor rotates the drum using the belt as well as the fan to expel wet air.
- This is a shunt AC motor. When the motor begins to run, a centrifugal switch shorts out the operation coil.
- The centrifugal switch also supplies power to the heater. Thus, if the motor stops, the heater goes off also.

2. Specification
- Shunt type 1/3 HP AC motor with centrifugal switch
- Rotational speed: more than 1600 rpm with load
- No load: 190W, 4.9A at 120V
- Full load: 555W, 6.1A at 120V
- Type name: S58NXSDD-6989

3. Checking method of mal-function
- If the drum rotates and exhaust air is expelled as soon as you start the unit, the motor is in normal operation.
- If the drum fails to rotate:
  ① Remove Plate T and check if the belt is damaged.
  ② Check if the door switch is in normal operation.
  ③ Remove the drum and check the thermostat fan.
  ④ Check the belt switch.
  ⑤ Run the unit while you press the lid of the belt switch and see if the motor starts operating.
- If a fault is found in any part mentioned above, replace it and check the operation of the motor (5).
- If no fault is found but the motor still fails to operate, replace the motor.

4. Procedure of replacement
① Plate Top Remove
② Panel F Ass'y Remove
③ Cabinet Front Ass'y Remove
④ Frame Upper Remove
⑤ Drum Ass'y Remove
⑥ Cover Fan Remove
⑤ Drum Ass'y remove
⑥ Cover Fan remove

⑦ Remove the cover fan and 3 screws.
   Loosen the 3 screws as indicated with a circle.

⑧ Remove the 4 screws and the motor ass'y.
   Loosen the 3 screws as indicated with a circle.

⑨ Remove wires and 2 clamps that fix the motor bearing to detach the motor.

⑩ Assemble the parts in reverse order.
Igniter As

Part Code: 36189L5800

1. **Function**
   - Igniter for fuel gas ignition.
   - Igniter heats up quickly when power is supplied. If fuel gas is injected to the surrounding area of igniter, gas is ignited by the heat of igniter.

2. **Specification**
   - A heating element made by Silicon Carbide
   - Electric rating: 120V 4.0A (steady-state current)
   - Temperature rating: reaches 1800°within 30 seconds
   - Type name: DC033

3. **Checking method of mal-function**
   - Igniter heats up to a very high temperature. Therefore, extreme caution is required in handling to prevent burn.
   - At room temperature, resistance between two terminals of this part is generally between 300~400Ω.
   - Part is defective if resistance between terminals measured after separating cable connected to igniter is 250Ω or less.
   - Part is defective if cracks are found when separating igniter and closely observing the surface.
   - In two of the above conditions, igniter is defective, therefore needs to be replaced.

4. **Procedure of replacement**
   1. Plate Top Remove
   2. Panel F Ass'y Remove
   3. Cabinet Front Ass'y Remove
   4. Frame Upper Remove
   5. Drum Ass'y Remove
   6. Cover Fan Remove
   7. Separate the connected cable and unfasten 1 screw to separate parts.
   8. Assemble part in reverse order of the above procedures.
Flame Sensor

Part Code : 3614825700

1. Function
• Sensor flame is the switch that operates by detecting fuel gas ignition or heating of igniter.
• Contact point is opened when sufficient radiant heat is detected through the transparent window at the bottom of sensor.
• When igniter is sufficiently heated, this is detected to turn off igniter. Then, state of internal contact point is continuously maintained to be off by combustion heat of the ignited gas.
• When gas supply is cut off, state of internal contact point becomes 'on' again so that to enable re-ignition by igniter.

2. Specification
• A bi-metal switch that is operated by radiation heat
• Electric rating : 120V 5.75A
• Operation : opened within 12~20 seconds after suitable radiation starts heating it. closed within 26~30 seconds after radiation heat disappears.
• Type name : 10RS

3. Checking method of mal-function
• At room temperature, there is the state of short between two terminals of this part.
• Part is defective if resistance between terminals measured after separating cables connected to sensor flame is 1Ω or more.
• Part is defective if the area between terminals is not opened 30 seconds after separating sensor flame and holding flame of lighter near transparent window at the bottom (less than 1cm).
  - Flame of lighter must be as long as the length of transparent window and the flame must not be in direct contact with transparent window.
  - Transparent window of sensor flame must be kept clean at all times to enable normal operation.
• Part is detective if resistance between terminals is not 0.3Ω or less within 50 seconds after removing the flame of lighter.
• In three of the above conditions, sensor flame is detective, therefore needs to be replaced.

4. Procedure of replacement
① Remove plate top.
② Remove panel F ass'y.
③ Remove cabinet front ass'y.
④ Remove frame upper.
⑤ Remove drum ass'y.
⑥ Check attachment position.
⑦ Separate the connected cable and unfasten 1 screw to separate parts.
⑧ Assemble part in reverse order of the above procedures.
1. Function
- This is a bimetal-type switch which stops the burner overheating.
- If the burner is too hot, this thermostat shuts off the gas valves and after the burner is cooled down, it allows the gas valves to operate.

2. Specification
- A bimetal thermostat with the terminals normally connected
- Electric rating: 25A at 125V
- Opening temperature: 95°C, Closing temperature: 70°C
- Type name: 60T21

3. Checking method of mal-function
- After operating air dry program for 5 minutes or longer, the terminal status of this part must be short.
- Part is defective and to be replaced if resistance between terminals measured after separating cables connected to sensor flame is 1Ω or more.

4. Procedure of replacement
1. Remove plate top.
2. Remove panel F ass'y.
3. Remove cabinet front ass'y.
4. Remove frame upper.
5. Remove drum ass'y.
6. Check attachment position.
7. Separate the connected cable and unfasten 2 screws to separate parts.
8. Assemble part in reverse order of the above procedures.
Thermostat Cut-Out

Part Code: 3619047810

1. Function
   • This is a bimetal-type switch which protects the burner from overheating.
   • If the burner is overheated abnormally, this thermostat cuts off the gas valves PERMANENTLY.
   • Note that this thermostat is MANUALLY-RESETTABLE; by pressing the knob on the top, this part is returned to reusable state.

2. Specification
   • A bimetal thermostat with the terminals normally connected
   • Electric rating: 15A at 125V
   • Opening temperature: 110°±5°C, Closing temperature: -35°C
   • Type name: PBR-380

3. Checking method of mal-function
   • In normal operation status, the area between terminals must not be opened.
   • If it is opened (resistance between terminals 100M Ω or more), press knob at the top two or three times to restore.
   • If resistance between terminals is 10 Ω or more after manual restoration, replace part as it is defective.
   (This part is restored to be reused if placed at temperature of -35°C or lower. However, this is an extremely low temperature that cannot be reached with general refrigerator for household use. Therefore, it is effective to press knob for restoration.)

4. Procedure of replacement
   ① Remove plate top.
   ② Remove panel F ass’y.
   ③ Remove cabinet front ass’y.
   ④ Remove frame upper.
   ⑤ Remove drum ass’y.
   ⑥ Remove mixing venturi AS.
   ⑦ Unfasten 2 screws fixing funnel in position and separate all of the connected cables. Then, carefully take out funnel.
   ⑧ Remove 2 screws and separate thermostat cut-out.
   ⑨ Assemble part in reverse order of the above procedures.
Valve Gas As

Part Code: 3615417200, -7300

1. Function

• Valve gas AS supplies or blocks off fuel gas.
• 2 valves are horizontally connected to safely block off gas leakage.
• Each valve is solenoid valve. Gas passed through this valve is injected after being stabilized to the prescribed output pressure in regulator.
• Therefore, even if input pressure of supplied gas changes, the prescribed amount of gas is stably supplied.

2. Specification

<table>
<thead>
<tr>
<th></th>
<th>Part Code</th>
<th>Type Name</th>
<th>Electric Rating</th>
<th>Input pressure</th>
<th>Output pressure</th>
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<tbody>
<tr>
<td>LPG</td>
<td>3615417200</td>
<td>DEGB-1011</td>
<td>120V 60Hz 0.07A</td>
<td>2.0~3.5 kPa</td>
<td>2.24 kPa</td>
</tr>
<tr>
<td>LNG</td>
<td>3615417300</td>
<td>DEGB-1011</td>
<td></td>
<td>1.0~3.5 kPa</td>
<td>0.87 kPa</td>
</tr>
</tbody>
</table>

※ power input - rectified 120Vdc

3. Checking method of mal-function

• To check or replace valve gas AS, gas pipe must be locked in advance for safety.
• At room temperature, resistance between two terminals of each valve is 2.4~2.7 kΩ.
• Part is defective if resistance between terminal measured after separating cables connected to valve gas AS is 2.0Ω or less or 3.0 kΩ or more.

4. Procedure of replacement

① Remove plate top.
② Remove panel F ass'y.
③ Remove cabinet front ass'y.
④ Remove frame upper.
⑤ Remove drum ass'y.
⑥ Remove 2 screws fixing pipe AS in position.
⑦ Remove 4 screws fixing pipe AS on to guide buner.
⑧ Separate the connected cable and unfasten 1 screw to separate parts.
⑨ Assemble part in reverse order of the above procedures..
1. Remove left cap and unfasten screw.

2. Separate panel front. (CAUTION: Internal hook damage attention)

1. Remove 3 screws at the front.
2. Remove 4 screws at the back.

3. Separate plate top by pushing it at the front part in the direction of arrow.
CABINET FRONT ASS'Y

1. Remove 4 screws at the top.

2. Remove filter.

3. Remove 3 screws.

4. Lift cabinet front in the direction of arrow and pull it forward.

5. Remove door switch connector.
FRAME UPPER

1. Remove 2 screws from left and right in front part.
2. Remove 2 screws from left and right at the top.
3. Separate frame upper after removing harness at the back.

SEPARATION OF LAMP, PCB MAIN CONNECTOR

1. Separate lamp connector.
2. Separate main PCB connector.
3. Separate humidity sensor connector.
**PCB MAIN**

1. Remove 2 screws.

3. Separate frame upper after removing harness at the back.

**DUCT OUTLET ASS’Y**

1. Remove 2 left and right screws.

2. Remove 1 screw.

3. Remove duct outlet F in the direction of ➔
SUPPORT DRUM FRONT ASS'Y

1. Push up idler in the direction of arrow to remove belt. Then, separate belt and remove drum.

DRUM ASS'Y

1. Remove 1 rear screw and separate pipe exhaust in the direction of arrow.

PIPE EXHAUST

1. Remove 1 rear screw and separate pipe exhaust in the direction of arrow.
1. Remove 10 screws.

2. Remove 7 screws.

3. Remove support drum rear ass'y in the direction of →

SUPPORT DRUM REAR ASS'Y

1. Remove heater terminal connection cable.


3. Separation of micro switch:

1. Remove cover terminal.

2. Remove 3 screws.
1. Remove 6 screws and separate motor ass'y.

2. Separation of cover fan: Remove 2 screws.

4. Dismantling of case fan: Remove 3 screws.

5. Dismantling of bracket motor: Remove 2 clamp motors each.
HEATER ASS'Y

1. Remove 4 screws.
2. Unfold 4 side fixing parts.
3. Remove thermostat 2 screws.
4. Remove 13 screws.

LAMP ASS'Y

1. Remove 1 screw.
1. Filter dust ass'y: Remove 2 screws.

2. H/S: Remove connector.

3. Remove H/S.
1. Separation of hinge and support drum front: Remove 2 screws.

2. Remove 13 screws.

3. Door lock ass’y: Separate door lock ass’y after removing 2 screws.
4. Door switch
GAS BURNER ASS'Y

1. Remove 6 screws. And separate 2 valve connectors.

2. Remove 1 screws at the back of cabinet.

3. Remove 2 screws and separate igniter connecter.

3. Remove 2 screws after removing harness at thermostat Cut-Out, Hi-Limit.