Operating Instructions

WEEKLY SET-BACK TIMER
(for SET-BACK mode of Laser 56/73)
PART #20478302

These instructions should be read thoroughly before operation and kept for future reference.
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FEATURES

THIS WEEKLY SET-BACK TIMER CONTROLS ON/OFF OF SET-BACK MODE ON LASER 56 AND LASER 73 VENTED HEATERS, NOT ON/OFF OF HEATER OPERATION.

IMPORTANT: When weekly set-back timer is ON, heater operates on SET-BACK MODE.
When weekly set-back timer is OFF, heater operates on NORMAL MODE.

BASIC FUNCTIONS

1. Weekly programming function
   Various weekly programs can be set to control ON/OFF of SET-BACK mode on Laser Vented Heater.

2. Maximum 14 different ON/OFF operations per week
   Features precise operation management.

3. No power setting function
   ..... Please refer to [7] (page 11) for details.
   Program can be set on the desk before mounting.

4. 10 years power failure backup function
   ..... Please refer to [8] (page 11) for details.
   Can be used where many power failure are anticipated.

5. ±1h (Daylight saving time) function
   ..... Please refer to [10] (page 12) for details.
   The present time can be shifted of 1 hour by one push.

6. MANUAL control option
   ..... Please refer to [15] (page 19) for details.
   Permanent and Momentary operations are provided.

7. TEST function
   ..... Please refer to [17] (page 22) for details.
8. TIMER operation/PULSE operation selection

**IMPORTANT:** ALWAYS set “TIMER/PULSE” output selector to “TIMER” position.

9. Holiday function cannot be used for heater.

**IMPORTANT:** Both ON/OFF switch and AUTO switch on heater must ALWAYS be in “ON” position.

**IMPORTANT:** The timer switch on main circuit board of heater must be in “OPTION” position.

**IMPORTANT:** Clock on heater must be set present time.

**NOTE:** When the timer switch on main circuit board of heater is in “OPTION” position, the SET-BACK times are controlled by the weekly set-back timer only.
PARTS NAMES

[Main body]

Power indicator lamp (green)
Liquid crystal display (LCD)
"MODE" button
"TIMER/PULSE" output selector
Terminal cover locking screw

Power terminals to 120V, 60Hz power source
Load terminals to Terminal #1 on main circuit board of heater

[Liquid Crystal Display (LCD)]

When all indicators are lit up.

CLOCK setting mode indicator
CALL mode indicator
Output "ON" indicator
Permanent output indicator
Output "OFF" indicator

PROGRAM setting mode indicator
TEST mode indicator
Daylight saving time indicator
Second/Program number display
Day of the week display
### RATINGS AND SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>100 - 240V AC</td>
</tr>
<tr>
<td>50/60Hz (common use)</td>
<td></td>
</tr>
<tr>
<td>Drive method</td>
<td>Fully electronic (Quartz oscillator)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>100VAC, 0.5W - 200VAC, 1W</td>
</tr>
<tr>
<td>Time display method</td>
<td>Day of the week, hours, minutes and seconds digital display (LCD)</td>
</tr>
<tr>
<td>Power display method</td>
<td>LED (green) method</td>
</tr>
<tr>
<td>Minimum unit</td>
<td>1 minute</td>
</tr>
<tr>
<td>Minimum interval</td>
<td>1 minute</td>
</tr>
<tr>
<td>Number of operations</td>
<td>14 sets of ON/OFF</td>
</tr>
<tr>
<td>Additional functions</td>
<td>No power setting function</td>
</tr>
<tr>
<td>TEST function</td>
<td>±1h function</td>
</tr>
<tr>
<td>Time precision</td>
<td>TIMER operation precision</td>
</tr>
<tr>
<td>Power failure backup</td>
<td>Same as time precision</td>
</tr>
<tr>
<td>Allowable operating voltage range</td>
<td>80 - 264VAC</td>
</tr>
<tr>
<td>Ambient operating humidity</td>
<td>-15°F (-10°C) to 120°F (50°C)</td>
</tr>
<tr>
<td>Ambient operating humidity</td>
<td>85% or less</td>
</tr>
</tbody>
</table>

**IMPORTANT:** Both ON/OFF switch and AUTO switch must ALWAYS be in ON position. The timer switch on main circuit board of heater must be in "OPTION" position.
4 DIMENSIONS (unit: inch)

※ Only 2 mounting screws are provided. Please choose 2 of 4 mounting holes.

Installation example
5 INSTALLATION

LASER 56

1. Disconnect power supply cord from power source. Remove two (2) screws and control box cover on the back of the heater.

2. Remove rubber bushing on the control box cover.

3. Knot the lead wire of the weekly timer as illustrated.

4. Insert the lead wire with strain relief bushing in the hole of the control box cover.

5. Connect the connector of the lead wire with terminal (① TIMER) on main circuit board of heater. Position the timer switch to “OPTION” on main circuit board of heater.

6. Affix the control box cover to the heater and insert screws.
LASER 73

1. Disconnect power supply cord from power source. Remove three (3) screws and junction box cover on the back of the heater.

2. Remove rubber bushing on the junction box cover.

3. Knot the lead wire of the weekly timer as illustrated.

4. Insert the lead wire with strain relief bushing into the hole of the junction box cover.

5. Remove two (2) screws from the front panel at lower edges and lift and remove the front panel.

6. Remove seven (7) screws from the heat shield plate and remove the plate. Main circuit board of heater is located behind the control panel.
7. Insert the lead wire into the heater unit.

8. Connect the connector of the lead wire with terminal (① TIMER) on main circuit board of heater.
   Position the timer switch to “OPTION” on main circuit board of heater.

9. Reassemble the heat shield plate and the front panel.

10. Affix the junction box cover to the heater and insert screws.
6 PROGRAM MANAGEMENT

When various ON/OFF times are set and programs get complicated, it is recommended to draw up program management table for easy planning. Please refer to the following examples to draw it up and use PROGRAM MANAGEMENT TABLE (page 25).

IMPORTANT: When weekly set-back timer is ON, heater operates on SET-BACK MODE.
When weekly set-back timer is OFF, heater operates on NORMAL MODE.

(Example 1)

<table>
<thead>
<tr>
<th>PROGRAM #</th>
<th>DAY</th>
<th>ON/OFF (Set-back mode)</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mo Tu We Th Fr Sa Su</td>
<td>ON</td>
<td>23:00</td>
</tr>
<tr>
<td>2</td>
<td>Mo Tu We Th Fr Sa Su</td>
<td>OFF</td>
<td>6:00</td>
</tr>
</tbody>
</table>

(Example 2)

<table>
<thead>
<tr>
<th>PROGRAM #</th>
<th>DAY</th>
<th>ON/OFF (Set-back mode)</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mo Tu We Th Fr</td>
<td>ON</td>
<td>19:00</td>
</tr>
<tr>
<td>2</td>
<td>Mo Tu We Th Fr</td>
<td>OFF</td>
<td>8:00</td>
</tr>
</tbody>
</table>
## Example 3

<table>
<thead>
<tr>
<th>PROGRAM #</th>
<th>DAY</th>
<th>ON/OFF (Set-back mode)</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mo Tu We Th Fr Sa Su</td>
<td>ON</td>
<td>23:00</td>
</tr>
<tr>
<td>2</td>
<td>Mo Tu We Th Fr Sa Su</td>
<td>OFF</td>
<td>6:00</td>
</tr>
<tr>
<td>3</td>
<td>Mo Tu We Th Fr</td>
<td>ON</td>
<td>8:30</td>
</tr>
<tr>
<td>4</td>
<td>Mo Tu We Th Fr</td>
<td>OFF</td>
<td>16:00</td>
</tr>
</tbody>
</table>

## Example 4

<table>
<thead>
<tr>
<th>PROGRAM #</th>
<th>DAY</th>
<th>ON/OFF (Set-back mode)</th>
<th>TIME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Mo Tu We Th Fr</td>
<td>ON</td>
<td>8:30</td>
</tr>
<tr>
<td>2</td>
<td>Mo Tu We Th Fr</td>
<td>OFF</td>
<td>16:00</td>
</tr>
<tr>
<td>3</td>
<td>Mo Tu We Th Fr</td>
<td>ON</td>
<td>22:00</td>
</tr>
<tr>
<td>4</td>
<td>Sa Su</td>
<td>OFF</td>
<td>8:00</td>
</tr>
<tr>
<td>5</td>
<td>Sa Su</td>
<td>ON</td>
<td>10:30</td>
</tr>
<tr>
<td>6</td>
<td>Sa Su</td>
<td>OFF</td>
<td>17:30</td>
</tr>
<tr>
<td>7</td>
<td>Sa Su</td>
<td>ON</td>
<td>23:00</td>
</tr>
<tr>
<td>8</td>
<td>Mo Tu We Th Fr</td>
<td>OFF</td>
<td>6:00</td>
</tr>
</tbody>
</table>
7 NO POWER SETTING FUNCTION

This function permits settings of program even if the power is not supplied such as before installation.

Set program according to the following instructions.

1. Keep pressing any of "MODE", "SELECT", "SET", "CALL" or "MANUAL" switches more than 1 second to obtain the same display image as when the power is supplied.

2. Set programs according to ①2 through ⑦5 as if the power is on.

3. When the setting is completed, the display turns off approximately 5 minutes after final button operation and returns to the normal power-off status (Cf. ⑧).

NOTE: 1. During power-off setting, the output remains OFF as in normal power failure status.

2. During TEST operation (Cf. ①7 (P.22)), battery discharges rapidly because power-off setting is not cleared. Please remind yourself to clear TEST operation after checking.

8 POWER FAILURE BACKUP FUNCTION

This function assures the following operations when power failure occurs.

• Holds the output in "OFF" status.

When the power is restored, the output returns to the program status.

- Program:

- Output:

- Turns out the display.
- Maintains CLOCK operation.
- Maintains set program memory and other setting contents.
9 RESET FUNCTION

Press "RESET" button once,
- When display or operation is wrong;
- To cancel all set programs.

The following shall be performed.
- "00:0000" blinks after 2 seconds of full display light up.
  When any button other than "RESET" is pressed, the display returns to "Normal mode" and the CLOCK starts off.

- All set programs cleared.
- The output turns "OFF".

10 ±1h (DAYLIGHT SAVING TIME) FUNCTION

Each time "±1h" button is pressed, "Standard time" and "Daylight saving time" change over alternatively for clock setting.

**NOTE:** "±1h" button is effective in "Normal mode" and "CLOCK setting mode".

(Example)
**MODE STATUS**

CLOCK setting, TIMER setting or other settings should be performed during the status that allows these settings. This status is called the mode. Each time “MODE” button is pressed, the mode changes as follows.

**NOTE:** “TIMER/PULSE” output selector must always be in “TIMER” position.

1. **“Normal mode”**: Normal operation status.

2. **“CLOCK mode”**: To set the present time.

3. **“ON time setting mode”**: To set TIMER output ON time.

4. **“OFF time setting mode”**: To set TIMER output OFF time.
   - When ON (OFF) time is set, the mode shifts to the next ON time setting mode.

5. **“Holiday setting mode”**: This mode is not available for use of heater.

6. **“TEST mode”**: To operation.

**Examples of display**

- **9:58 38 Fr**
- **CLOCK 9:58 38 Fr**
- **ON PROG --::-- (01) Mo**
- **PROG --::-- (02) Mo**
- **Ho:-- Mo**
- **TEST 0:00 Mo**

Except for “Normal mode”, if no button is pressed more than approximately 5 minutes in any mode, it returns to “Normal mode” automatically. During TEST operation, however, it does not return “Normal mode” automatically.
CLOCK SETTING METHOD

(Example) To set to Wednesday, 8:30 PM (20:30).

* CLOCK displays on 24 hours system.

① Press "MODE" button to select "CLOCK setting mode".

② Press "SELECT" button to select setting location.
  • Each push on the button will shift the blink from "seconds" to "minutes" to "hours" to "day of the week" and back to "seconds".

③ Press "SET" button to set.
  • As for "seconds" setting, CLOCK stops at 0 second (of the next minute if more than 30 seconds) when the button is pressed. Release the button with time signal and CLOCK starts.
  • As for "minutes" and "hours" setting, press once to advance 1 minute (hour). To advance rapidly press more than 1 second.
  • As for "day" of the week" setting, one push will shift the blink from "Mo" to "Tu" to ... to "Su" and back to "Mo".

④ To complete the setting, push "MODE" button to return to "Normal mode".
13 TIMER SETTING METHOD

(Example) To set “ON” at 11:00 PM (23:00) and “OFF” at 6:00 AM from Monday through Sunday.

* Make sure “TIMER/PULSE” output selector on “TIMER”.

(1) ON time setting

1. Press “MODE” button to enter “ON time setting mode”.
   - The number in “( )” shows the program number.
     Odd number corresponds to ON time and even number to OFF time.

2. Press “SELECT” button to select setting location.
   - One push will shift the blink from “minutes” to “hours” to “day of the week” and back to “minutes”.

3. Push “SET” button to set up.
   - As for “hours” setting, the display shifts from “—” (clear) to “0” to “1” to “23” and back to “—” by each push.
   - As for “day of the week” setting, the display shifts the blink from “Mo” to “Tu” to “Su” to “Mo-Su” to “Mo-Sa” to “Mo-Fr” to “Sa & Su” to “Tu-Su” to “Tu-Sa” and back to “Mo”.

(2) OFF time setting

4. Press “MODE” button to enter “OFF time setting mode”.

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5. Set according to the same operating as in steps 2 and 3.

6. Complete the setting pressing “MODE” button to return to “Normal mode”.

**NOTE:** 1. When ON time or OFF time is set, one push on “MODE” button will return to “ON time setting mode” after “OFF time setting mode”. To set several programs, perform 2 to 5 operation from this point. If neither ON nor OFF time is not set, a push on “MODE” button will display “Holiday setting mode” after “OFF time setting mode”. However, “Holiday setting mode” cannot be used for heater. Keep pushing “MODE” button to return to “Normal mode”.

2. ON time or OFF time can be set independently; however, program memory will be used for 2 operations in anyway.

3. If there is no more program memory capacity, “Full” mark will appear on the display indicating no more storing is possible.
14 PROGRAM CHECKING, CHANGING AND CLEAR

1. Checking ON/OFF time
   ① Press “CALL” button to call the program to check.
   • “CALL” button works only in “Normal mode” and “ON/OFF time setting mode”.
   • Each time the button is pressed, programs will be displayed in order.
     To advance rapidly, press more than 1 second.

   → “Normal mode” → “No. 1 program” → “No. 2 program” → → “Last program”
   → “End” mark

   ② When checking is completed, push “MODE” button once or continue pressing “CALL” button to return to “Normal mode”.
   • When left in “CALL mode”, the display returns automatically to “Normal mode” approximately 5 minutes after the last button operation.

2. Changing ON/OFF time
   ① Press “CALL” button to call program to change.
   ② Change using “SELECT” and “SET” buttons as in setting.
   ③ When changing is completed, push “MODE” button once or continue pressing “CALL” button to return to “Normal mode”.
3. Clearing ON/OFF time

① Press "CALL" button to call program to clear.
② Change "hours to "—" (cleared) using "SELECT" and "SET" buttons.
③ When clear is completed, push "MODE" button once or continue pressing "CALL" button to return to "Normal mode".

**NOTE:**
1. When one of ON time and OFF time is cleared, the other remains effective.
2. When one of a pair of ON/OFF time is cleared, the vacant number created by this will be occupied by the following program sequence.

(Example)

<table>
<thead>
<tr>
<th>Pair 1</th>
<th>No.1 program (ON)</th>
<th>Mo 8:30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.2 program (OFF)</td>
<td>Mo 17:15</td>
</tr>
<tr>
<td>Pair 2</td>
<td>No.3 program (ON)</td>
<td>Tu 17:30</td>
</tr>
<tr>
<td></td>
<td>No.4 program (OFF)</td>
<td>We 8:15</td>
</tr>
<tr>
<td>Pair 3</td>
<td>No.5 program (ON)</td>
<td>Th 8:00</td>
</tr>
<tr>
<td></td>
<td>No.6 program (OFF)</td>
<td>Th 17:00</td>
</tr>
</tbody>
</table>

Vacant hereafter

Cleared

<table>
<thead>
<tr>
<th>Pair 1</th>
<th>No.1 program (ON)</th>
<th>Mo 8:30</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>No.2 program (OFF)</td>
<td>Mo 17:15</td>
</tr>
<tr>
<td>Pair 2</td>
<td>No.3 program (ON)</td>
<td>Th 8:00</td>
</tr>
<tr>
<td></td>
<td>No.4 program (OFF)</td>
<td>Th 17:00</td>
</tr>
</tbody>
</table>

Vacant hereafter

Stuffed
**“MANUAL” BUTTON OPERATION METHOD**

“MANUAL” button setting allows performance of “P” (permanent) operation and Momentary operation.

* “MANUAL” button works only in “Normal mode”.

![Diagram](image)

1. “P” (permanent) operation
   ① “P” ON operation: maintains “ON” independent of the program.
     - Program:
     - Output:

   ![Setting](image)

   “ON” and “P” blink

   ![Display](image)

   ② “P” OFF operation: maintains “OFF” independent of the program.
     - Program:
     - Output:

   ![Setting](image)

   “OFF” and “P” blink

   ![Display](image)

2. Momentary operation
   ① Momentary ON operation: maintains “ON” until the next OFF time.

     - Program:
     - Output:

     ![Setting](image)
(2) Momentary OFF operation: maintains “OFF” until the next ON time.

- Program:
- Output:

(Example 1) Momentary OFF operation
Today, exceptionally, the work begins early and the set-back mode should stop before the fixed time.

- Program:
- Output:

(Example 2) Momentary ON operation
Today is a half holiday exceptionally and the set-back mode should start before the fixed time.

- Program:
- Output:
PRECAUTIONS ON OPERATION

1. If “TIMER/PULSE” output selector is changed over, all set programs are cleared except CLOCK and the output turns “OFF”. “TIMER/PULSE” output selector must ALWAYS be in “TIMER” position.
2. If the same ON time and OFF time are set, it is the OFF operation that prevails.
3. If the CLOCK is between ON time and OFF time, TIMER output shall not be executed the day.
   If TIMER output should be executed as program from the day, enter the desired output status using Momentary setting after CLOCK and TIMER setting.
4. In case of programs overlapping in TIMER setting, the actual output shall be given as shown below.
   (Output turned “ON” at ON time and “OFF” at OFF time according to the CLOCK advance independent of the program pair at the setting.)

   • Program:
     ![Diagram 1]
     ![Diagram 2]
     ![Diagram 3]

   • Output:

5. Program changing or clear during TIMER output does not alter the output of that point. Use Momentary operation to enter the desired output status.
6. Both ON/OFF switch and AUTO switch on Laser heater must ALWAYS be in “ON” position.
7. The timer switch on main circuit board of Laser heater must be in “OPTION” position.
8. This weekly timer controls ON/OFF of SET-BACK mode on Laser 56 and Laser 73 Vented Heaters, not ON/OFF of heater operation.
9. Clock on Laser heater must be set present time.
**TEST FUNCTION**

CLOCK rapid advance permits checking of the operation on the display screen.

A week’s operation can be checked within 10 minutes approximately.

1. Press “MODE” button to enter “TEST mode”.
   - The starting time “Mo 0:00”.

2. One push on “CALL” button will start TEST operation.
   - When it comes to ON/OFF time, “ON(OFF)”, “set time” and “program No.” blink for 3 seconds.
   - If “CALL” button is pressed during blink, the blink continues another 3 seconds from that moment.

3. Complete TEST by pressing “MODE” button once to enter “Normal mode”.
   - TEST mode continues forever unless “MODE” button is pushed.

- Initial display
- "Minutes” rapid advance
- "Normal mode” display

**NOTE:** 1. TEST operation does not alter the actual output. During TEST operation, the output continues as set.
   2. Holiday operation, “P” operation and Momentary operation can not be checked.
EXAMPLES OF PROGRAM SETTING

(1) Overnight operation 1
To set "ON" at 6:00 PM from Monday through Saturday and "OFF" at 6:30 AM of the following days.

<table>
<thead>
<tr>
<th></th>
<th>Mo</th>
<th>Tu</th>
<th>We</th>
<th>Th</th>
<th>Fr</th>
<th>Sa</th>
<th>Su</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON time</td>
<td>18:00</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OFF time</td>
<td>6:30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[Setting]

(2) Overnight operation 2
To set "ON" at 7:45 AM on Monday and "OFF" at 2:15 PM on Saturday.

<table>
<thead>
<tr>
<th></th>
<th>Mo</th>
<th>Tu</th>
<th>We</th>
<th>Th</th>
<th>Fr</th>
<th>Sa</th>
<th>Su</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON time</td>
<td>7:45</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OFF time</td>
<td>14:15</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[Setting]

(3) Independent operation
To set continuous "ON" from 11:20 AM on Wednesday.

<table>
<thead>
<tr>
<th></th>
<th>Mo</th>
<th>Tu</th>
<th>We</th>
<th>Th</th>
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[Setting]
POINTS TO NOTE

1. Avoid using the time switch in the following places.
   • A place of 15°F (-10°C) or below and 120°F (+50°C) or higher
   • A place exposed to direct rain and waterdrop outdoors
   • A place with much moisture
   • A place with much dust
   • A place with high vibration
   • A place exposed to direct sunlight
   • A place exposed to vapor and oily smoke; such as kitchen
   • A place where dew condensates

2. Remember to attach protective covers after setting operation to avoid dust and to protect the setting.

3. This weekly set-back timer is intended only for use Laser 56 and Laser 73 Vented Heaters.
## PROGRAM MANAGEMENT TABLE

<table>
<thead>
<tr>
<th>DAY</th>
<th>PROGRAM #</th>
<th>ON/OFF (Set-back mode)</th>
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