

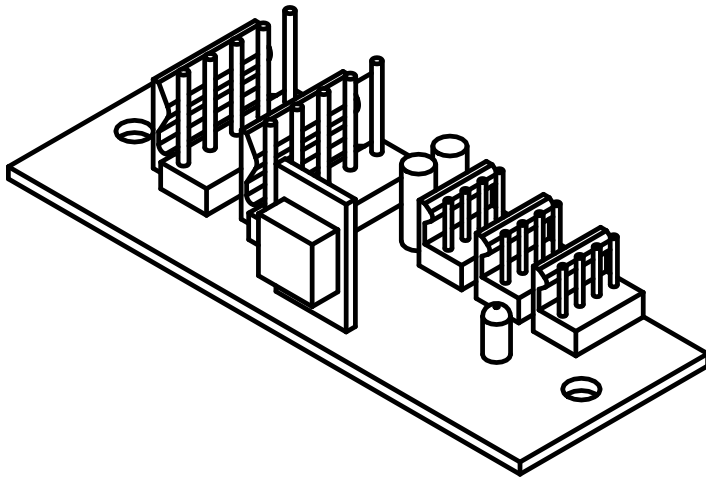


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# Instruction Sheet

## Timer Bar 5V Power PCB Replacement

### Parts in Kit



225181 Timer Bar Power PCB

### Tools Needed



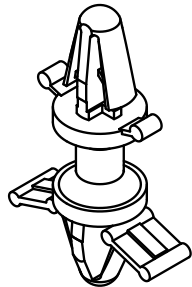
#2 Phillips Screwdriver



Cutters



512418 Disposable ESD Strap 1 Ea



166101 PC Support Lock-In 2 ea.

**CAUTION:** Please read these instructions completely before attempting to install, operate or service this equipment.

 **WARNING for CA residents: go to [www.dukemfg.com/prop65](http://www.dukemfg.com/prop65) for prop 65 warning**

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**P/N 529135  
REV A 05/19/2022**

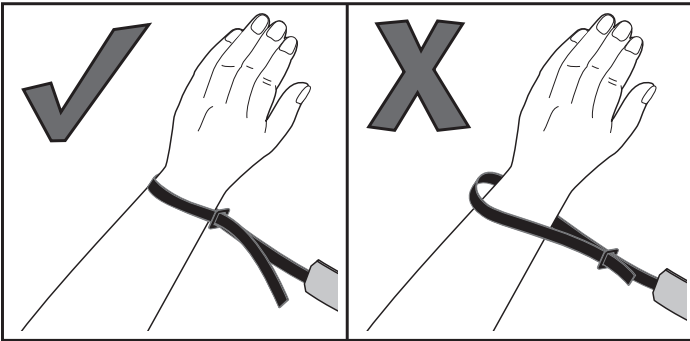
# INSTRUCTIONS

- 1 Make sure unit is turned off and disconnected from power source.

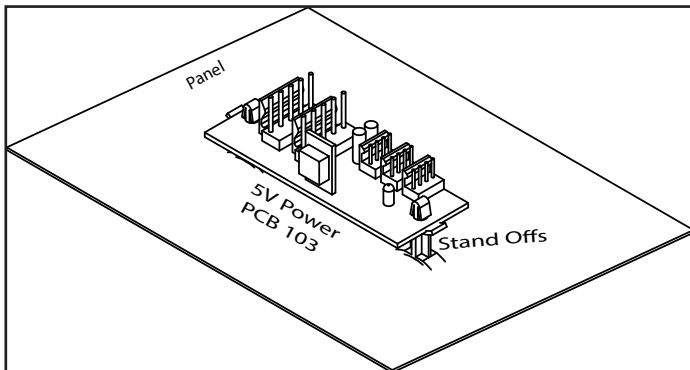
**⚠ WARNING**  
**HAZARDOUS VOLTAGE**  
**⚠ CAUTION** ⚡  
**RISK OF ELECTRIC SHOCK**

- 2 Remove access panel where Trac PCB is to be replaced.

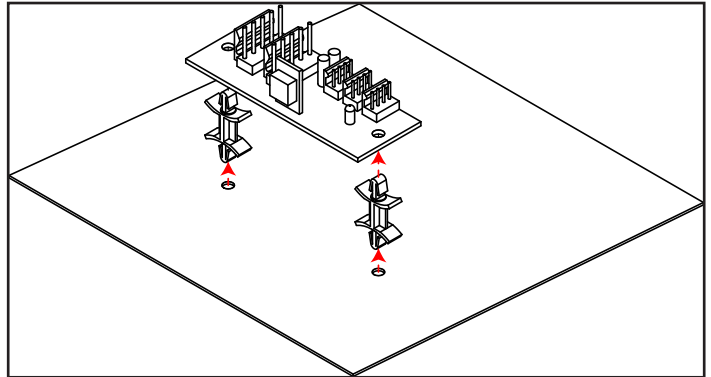
- 3 Place ESD strap on wrist and tighten. Strap must be tight around wrist to be effective. Secure other end of ESD Wrist strap to the main structure of the equipment.



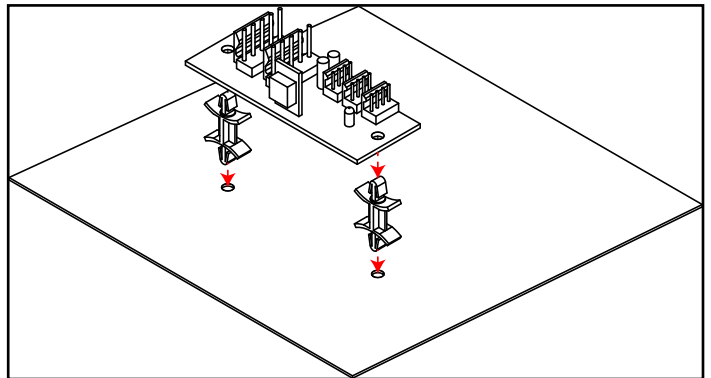
- 4 Disconnect all wires from the 5V power PCB board.  
**Note: Take a picture of wire locations for future reference.**



- 5 Remove the pc supports by cutting with cutters.



- 6 Install two (2) new pc supports and place PCB Board in unit make sure orienation of board is correct.



- 7 Reconnect all wire - reference picture taken in step 4

- 8 Remove ESD Strap

- 9 Apply power to unit and verify operation.



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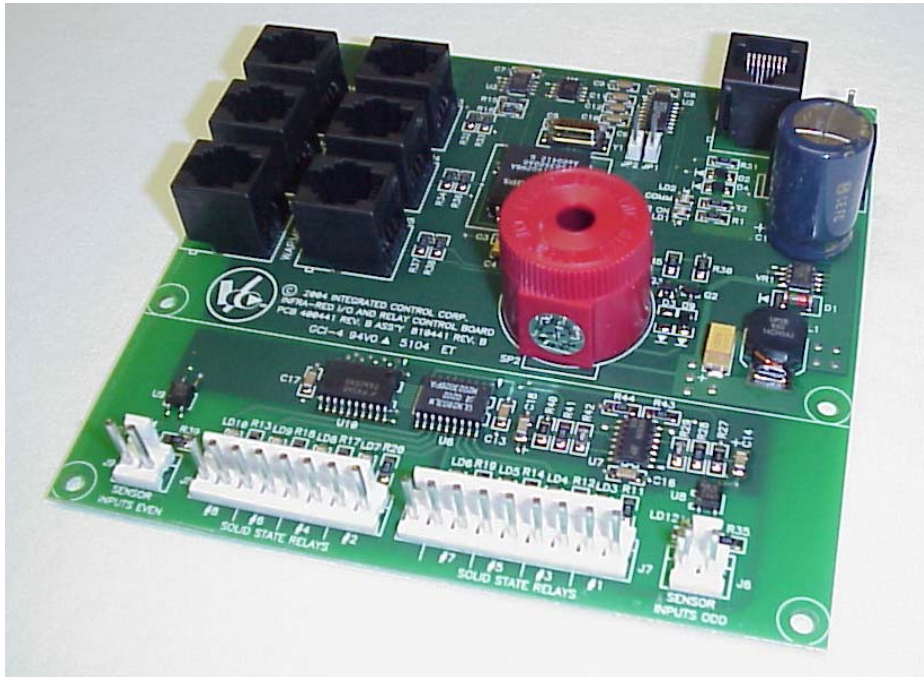
**Duke Manufacturing Co.**  
2305 N. Broadway  
St. Louis, MO 63102

Phone: 314-231-1130  
Toll Free: 1-800-735-3853  
Fax: 314-231-5074

[www.dukemfg.com](http://www.dukemfg.com)

# INSTRUCTION SHEET

## IRHU CIRCUIT BOARD CONTROL



DUKE P/N 159123  
DUKE P/N 159248

### NOTICE:

THIS CONTROL IS NOT PROGRAMMED FOR THE APPLICATION. PLEASE CALL DUKE MANUFACTURING TECHNICAL SERVICE DEPARTMENT FOR PROGRAMMING INSTRUCTIONS BEFORE INSTALLATION. 800-735-3853 EXT 5.



“Your Solutions Partner”

P/N 159242-D

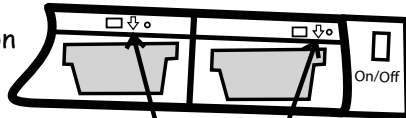
**DUKE MANUFACTURING CO.**  
TOLL FREE 800-735-DUKE (3853)  
314-231-1130

Always stand  
on the front side of the warmer  
facing the ON/OFF switch

Programming has never  
been simpler!

## 1) Enter Setup Mode

Turn the power off  
Then while powering on  
press and hold the  
2 arrow keys



Press Both Keys

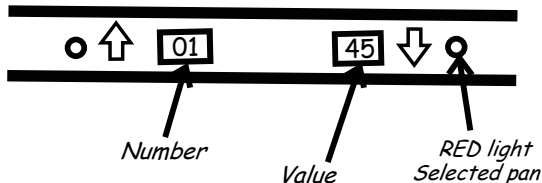
1 solid RED light will turn on  
The 2 displays will show numbers

## 2) Select and View Settings

The left display shows the setting number  
The right display shows the setting value

### ● Press the arrow keys to change the setting number

The left arrow key (next to the setting number) goes up  
The right arrow key (next to the setting value) goes down  
View the values on the right display



### Settings:

- Setting # 99** - Duty Cycle Length  
03 = 30 seconds, 06 = 60 seconds and 12 = 120 seconds
- Setting # 98** - Phase 4 - % Heat  
0 to 99 plus FF = 100%
- Setting # 97** - Active Keyboards  
01 - Back Only, 02 - Front Only,  
03 - Both Front and Back Active
- Setting # 96** - Firmware Revision  
Displays firmware version
- Setting # 95** - Max Temperature  
Displays the max electrical compartment  
temperature in °C (00 Resets to 0°C)
- Setting # 94** - Actual Temperature  
Displays the actual electrical compartment  
temperature in °C

# IRHU-12 Warmer Setup Instructions



## Settings Continued:

**Setting # 93** - IR unit holding type  
(Change in edit mode to override  
until the next power up)

**Setting # 92** - Current Monitor  
01 - Current monitoring  
00 - No current monitoring  
(until power off)

**Setting # 91** - Reset to factory default  
01 - Reset

**Setting # 90** - Jumper Installed  
(Change in edit mode to override  
until the next power up)

**Setting # 89** - Hold Energy Limiting  
01 - Enabled  
00 - Disabled (until power off)

## 3) Enter and Exit Edit Mode

- To enter edit mode press and hold the **RIGHT** arrow key for 3 seconds - the solid RED LED will blink
- To exit edit mode press and hold the **Right** arrow key for 3 seconds - the blinking RED LED will turn solid

## 4) Edit Settings 99-89

- **Select** the settings to be changed, then enter edit mode  
Use the arrow keys to change the setting value  
The left arrow key (next to the setting number) goes up  
The right arrow key (next to the setting value) goes down
- **Exit** edit mode

## 5) Exit Setup Mode

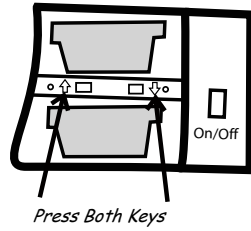
Press the 2 arrow keys to enter normal mode

Always stand  
on the front side of the warmer  
facing the ON/OFF switch

Programming has never  
been simpler!

### 1) Enter Setup Mode

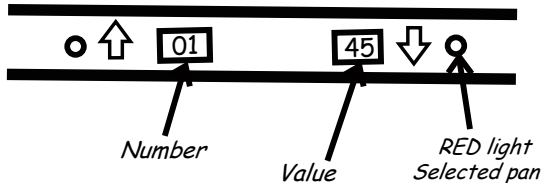
Turn the power off  
Then while powering on  
press and hold the 2 keys closest  
to the ON/OFF switch



1 solid RED light will turn on  
The 2 displays will show numbers  
All other displays will go out

### 2) Select and View Settings

The left display shows the setting number  
The right display shows the setting value  
**Press the arrow keys to change the setting number**  
View the setting values on the right display



### Settings:

- Setting # 99** - Duty Cycle Length  
03 = 30 seconds, 06 = 60 seconds and 12 = 120 seconds
- Setting # 98** - Phase 4 - % Heat  
0 to 99 plus FF = 100%
- Setting # 97** - Active Keyboards  
01 - Back Only, 02 - Front Only,  
03 - Both Front and Back Active
- Setting # 96** - Firmware Revision  
Displays firmware version
- Setting # 95** - Max Temperature  
Displays the max electrical compartment  
temperature in °C (00 Resets to 0°C)
- Setting # 94** - Actual Temperature  
Displays the actual electrical compartment  
temperature in °C

## IR Warmer Setup Instructions



### Settings Continued:

- Setting # 93** - IR unit holding type  
(Change in edit mode to override  
until the next power up)
- Setting # 92** - Current Monitor  
01 - Current monitoring  
00 - No current monitoring  
(until power off)
- Setting # 91** - Reset to factory default  
01 - Reset
- Setting # 90** - Jumper Installed  
(Change in edit mode to override  
until the next power up)
- Setting # 89** - Hold Energy Limiting  
01 - Enabled  
00 - Disabled (until power off)

### 3) Enter and Exit Edit Mode

To enter edit mode press and hold the  
DOWN arrow key for 3 seconds -  
the solid RED LED will blink

To exit edit mode press and hold the  
DOWN arrow key for 3 seconds -  
the blinking RED LED will turn solid

### 4) Edit Settings 99-89

Select the settings to be changed,  
then enter edit mode  
Use the UP and DOWN arrow keys to change  
the setting value  
Exit edit mode

### 5) Exit Setup Mode

Press and hold the 2 keys closest to the ON/OFF  
switch for 5 seconds to enter normal mode