



TIRE WARMER

USER GUIDE

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STRUCTURE



Waterproof layer

Heat Insulation layer

Heat transmit layer

Heating Wire

High-temperature resistant layer

Rim Hugger With Extra Heating wire



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SIZE & COLOR

10 Inch Mini
12 Inch Mini
110/120
110/140
120/165
120/190
120/200



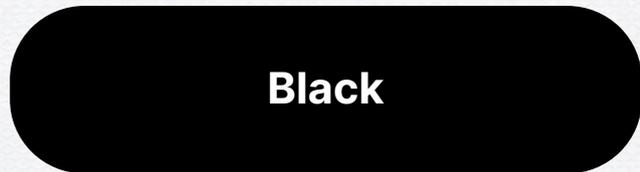
Red



Neon Red



Blue



Black



Neon Green

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PROGRAM SETTINGS

CODE	Function	Range	Factory Set	Temp
St	Temp Setting	0~99	80	°C
CR	Temp Calibration	-10~10	0	°C
St	Temp Setting	32~210	176	°F
CR	Temp Calibration	-18~18	0	°F

CONTROL OVERVIEW

After the system is powered on, the values displayed on the top and bottom of the instrument represent the current temperatures measured by the front and rear circuit sensors. The system automatically maintains the temperature within the minimum fluctuation range based on the set value.

When the relay is engaged, the corresponding indicator light will turn on.

If a malfunction occurs, the corresponding display will flash, and an error code will appear:

EE
E1
E2

- Indicates a short circuit in the corresponding temperature sensor, and the load stops operating.
- Indicates an open circuit in the corresponding temperature sensor, and the load stops operating.
- Indicates that the corresponding temperature exceeds the set value by 3°C, and the load stops operating.

USAGE INSTRUCTIONS

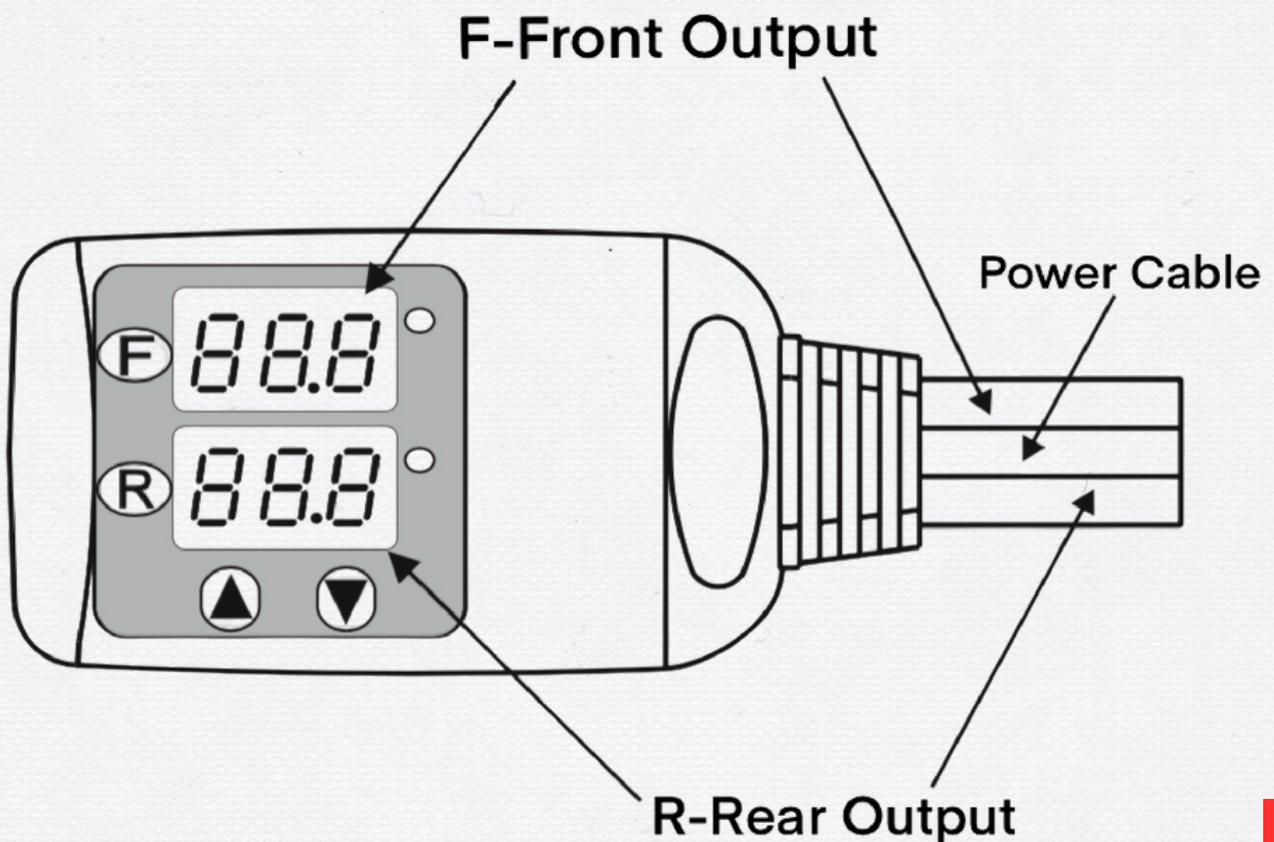
TWD Model (Digital Controller)

- Wrap the tire warmer around the tire and plug it into a power source.
- The default temperature setting is 80°C, but the user can adjust it within a range of 0-99°C using the digital controller.
- When heating begins, the digital controller's indicator will turn red, showing that the warmer is actively heating.
- Once the tire reaches the set temperature, the indicator will turn green, indicating that the warmer has stopped heating.
- The cycle continues as needed.
- To adjust the temperature:
 1. Press and hold the SET button.
 2. Use the UP and DOWN buttons to set your desired temperature.
 3. The setting will be saved automatically after you stop adjusting.
 4. The tire warmer will now operate according to the new temperature setting.

PANEL

When connecting the tire warmer to the digital temperature controller, ensure that the plug is inserted according to the directional arrows marked on it.

Failure to follow this direction may cause damage to either the tire warmer or the digital controller, and such damage is not covered under warranty.



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PANEL CONTROL

Press the SET button (F), and the display will flash. The lower display window will show St, while the upper display window will show the original preset temperature for the front circuit. Press the UP and DOWN buttons to adjust the set value.

Press the SET button (F) again, and the lower display will show CA, while the upper display will show the front circuit temperature calibration value. Press the UP and DOWN buttons to modify the setting.

Continuing to press the SET button will cycle between ST and CA.

Similarly, pressing the R button allows modification of the rear circuit parameters.

When the device is disconnected from the load, press and hold the UP and DOWN buttons simultaneously for 5 seconds. The lower display will show CF, and the upper display will show the temperature unit. C represents Celsius, and F represents Fahrenheit. Use the UP and DOWN buttons to switch between units.

RECOMMENDED TEMPERATURE

Data provided by mainstream tire brands.

Recommended Temperature Settings for Different Tires:

- Slick (dry) tires: 80-85°C
- Rain tires: 65-70°C
- Qualifying ultra-soft tires: 90-95°C



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CAUTIONS

1. The tire warmer should not contact with water under any circumstances. Like any other electronic device, water can cause a short circuit and increase the risk of electric shock.
2. Do not leave the tire warmer unattended while in use.
3. Do not use a visible damaged tire warmer.
4. This product is intended for track use only.
5. The tire warmer must be properly wrapped around the tire before being powered on.
 - Do not operate the tire warmer when it is not installed on the tire.
 - Running the warmer without a tire will cause it to overheat and burn out quickly.
 - Always disconnect the power before removing the tire warmer from the tire.
 - Damage caused by incorrect usage is not covered under warranty.
6. Use the correct tire warmer size for your tires.
 - The warmer should fit snugly against the tire surface.
 - Avoid overlapping or creasing the warmer, as these issues can cause localized overheating and burning.
 - Most tire warmer failures result from this issue, and such damage is not covered under warranty.
7. When using the tire warmer for the first time or after a long period of inactivity, you may notice steam coming out as it begins to heat.
 - This is due to moisture accumulated inside the warmer and is not a cause for concern.
 - The steam will dissipate quickly and will not affect performance.
8. The tire warmer is controlled by a temperature sensor.
 - Initially, the displayed temperature may not be entirely accurate due to the temperature difference between the warmer and the tire.
 - After 20 minutes, the temperature reading will be more accurate.
 - After 30 minutes, the tire should reach the operating temperature and will be maintained by the temperature controller.

TEMPERATURE ERROR

If you find that the temperature displayed on the temperature controller differs from the actual temperature, you can press and hold the SET button for more than 6 seconds to access the menu. Select CA, then press and hold the SET button while using the UP or DOWN buttons to adjust the calibration.

For example, if you believe 80°C is correct but the tire warmer only shows 79°C, you can increase the CA value by +1. The default CA value is 0, and any adjustments should be made based on this value. In general, this adjustment is not necessary unless there is a noticeable discrepancy.

When the tire warmer is no longer needed, always unplug the power first before removing it from the tire.

COMMON FAULT TROUBLESHOOTING

Fault	Possible causes	Solutions
No display when powered on	Power supply disconnected; Temperature controller malfunction.	Check the power supply circuit, replace the fuse; Check if there is input at the power terminal or replace the temperature controller through the dealer.
Display is on, but not operating	The set temperature is lower than the current temperature.	Reset the desired temperature.
Unstable temperature display or malfunction	Sensor wiring interference; Poor wiring connection.	Check if the wiring is properly tightened.
Significant deviation between actual temperature and displayed temperature	Loose wiring connection; Sensor failure.	Ensure proper sealing of the wiring to prevent moisture; Replace the sensor.

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WE ARE HERE TO HELP

If you have any questions regarding fitment or installation, please don't hesitate to reach out. You can always contact the authorized dealer from whom you purchased the product for assistance, or get in touch with us directly via email during business hours. Our technical support team is happy to provide one-on-one installation guidance to ensure a smooth and confident setup process.

We're here to help you get the most out of your product — from choosing the right fitment to final adjustment.

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