



Installation Manual

Thermotrax Scanner Heater





Congratulations on your purchase of a quality *JLC Solutions* product. All of us at *JLC Solutions* take pride in the design and assembly of each of our products and we believe that your experience will be positive.

Ordering, Information and Support

Phone: 770.499.9420

Web Site: www.jlcsolutions.com

E-mail: orders@jlcsolutions.com
sales@jlcsolutions.com
info@jlcsolutions.com
support@jlcsolutions.com

Warranty

JLC Solutions stands behind its products with a one year limited warranty for defects in workmanship and materials, and will handle any issues that may arise in a professional and timely manner.

PLEASE READ AND UNDERSTAND ALL DOCUMENTATION, INSTRUCTIONS, WARRANTY AND SAFETY INFORMATION PRIOR TO PROCEEDING WITH YOUR INSTALLATION.

VERIFY THAT THE PARTS RECEIVED ARE COMPLETE AS DETAILED WITHIN THE PARTS LIST FOUND IN THIS MANUAL.

If you have any concerns or questions relative to the installation of your *JLC Solutions* product, please contact *JLC Solutions* for further assistance or clarification.

Contents

<i>Thermotrax</i> Cable Management Installation	pages 3 – 5
Electrical Installation	pages 6 – 7
Mounting Options	page 8
Standards Committees and Organizations	page 9
Parts List	page 10

Installation Detail

Scanner Installation

1. Locate 1 cable tie on the *Thermotrax* and 3 cable ties in the package as seen in Figure 1.

Figure 1



2. Secure 1 cable tie to the scanner cable at the end near laser scanner. (Figures 2 & 3).

Figure 2



Figure 3



3. Secure the second cable tie to the approximate mid-point of scanner cable. (Figure 4)

Figure 4



4. Determine where the *Thermotrax* is going to be placed in relation to the terminal. After leaving enough of the scanner's cable to go between the terminal and the *Thermotrax* secure the third cable tie to scanner's cable as shown in Figure 5.

Figure 5



Installation Detail

Scanner Installation (cont.)

For SR61T scanners use steps 5, 6 and 7

5. Remove the screw from the base of the scanner. (Figure 6)

Figure 6



6. Place Retractor Cable Connector on screw and replace as shown. (Figure 7)

Figure 7



7. Secure connection ring to retractor cable connector

Figure 8



8. Pull the retractor cable through the eyes on the cable ties. (Figure 10)

Figure 9



9. Place the supplied ring on the bottom of the laser scanner. Secure the *Thermotrax* cable to the ring on the scanner. (Figure 11)

Figure 10



10. Secure the remaining cable tie (permanently fastened to *Thermotrax*) around the portion of the scanner cable that goes to the terminal. This will prevent strain on the end of the scanner cable that connects to the terminal during use.

Figure 11



Installation Detail

Electrical Power Connection

Follow the installation instructions for *Thermotrax* previously described in this manual.

Attach the *Thermotrax* power cable to the lift truck's DC power source. The *Thermotrax* is polarity independent so it does not matter which wire is positive or negative. The optimum place to connect to the lift truck power is between the battery and the ignition key. It is important to understand that the *Thermotrax* requires power at all times in order to function properly.

The *Thermotrax* scanner heaters are available in 12 volt, 24 volt and 36 – 48 volt models. Before making electrical connections please verify that the heater voltage matches the lift truck. You will find a label indicating the voltage affixed to the bottom of the *Thermotrax*. Be sure that the voltage label matches the lift truck before installation.

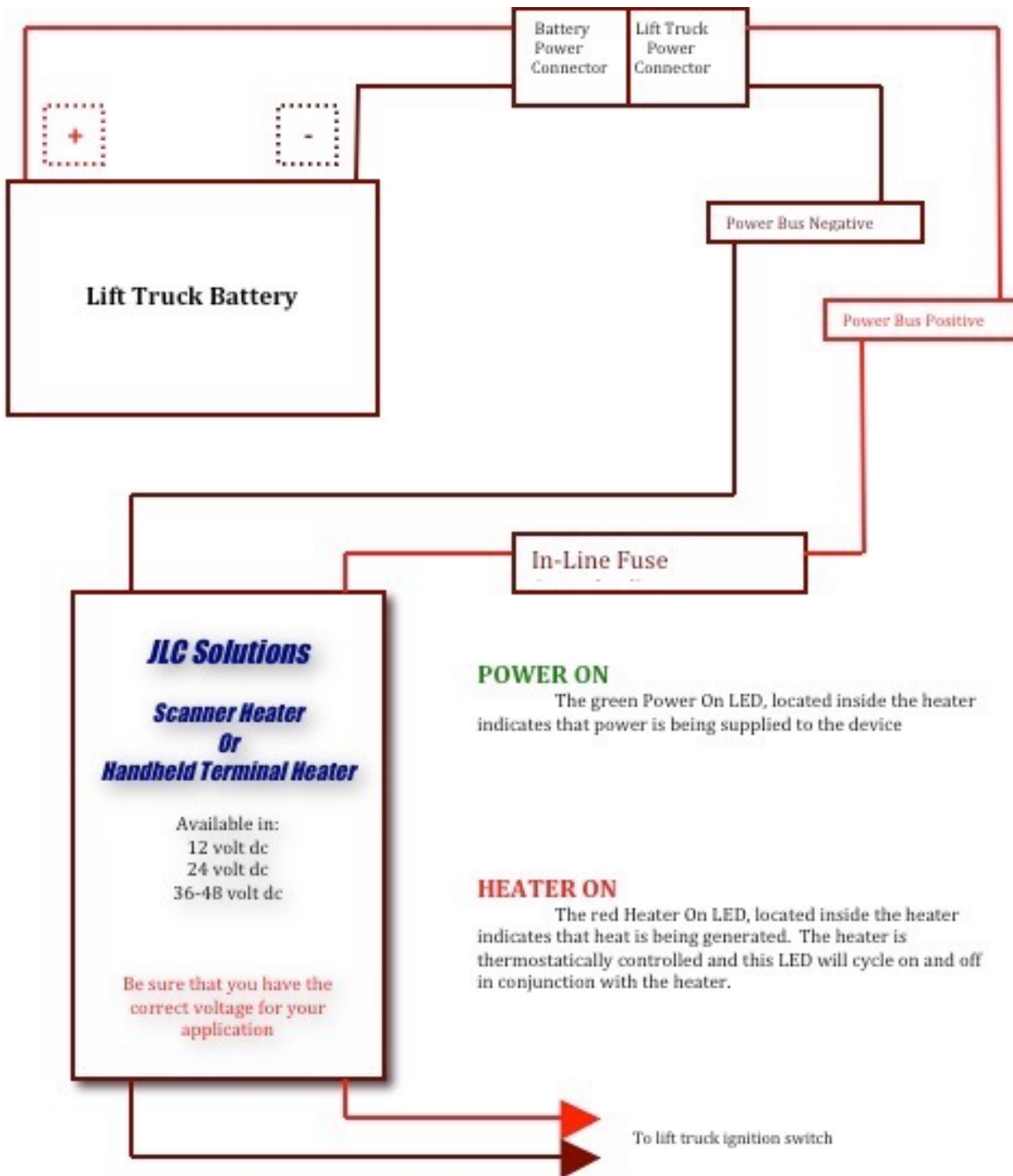
The green LED in the *Thermotrax* will light when power is being supplied to the *Thermotrax* unit and should be on at all times except during battery changes. The red power LED located within the *Thermotrax* will illuminate when the internal temperature control circuit turns on the heater and will cycle on and off as required by your particular environment.

Notice: Please consult with your lift truck manufacturer for any specific electrical installation instructions that may apply.

In all installation cases, do not connect power to a switched line. The JLC heater **MUST** receive power at all times (with the exception of lift truck battery exchanges) in order to function properly. Use the JLC recommended electrical connection diagramed unless the lift manufacturer recommends other connection points.

Installation Detail

Electrical Power Connection



Installation Detail

Mounting Bracket

The mounting bracket attached to the *Thermotrax* heated scanner holder is designed to give the user complete flexibility in mounting options. By removing the 3 screws on each side of the heated holder and relocating the bracket as shown in the photos below, the *Thermotrax* can be mounted in the deck mount or in a wall/screen position.

The scanner heater should be in a vertical position or tilted towards the driver. It should **NOT** be installed horizontally.



Standards Committees and Organizations

You must follow all standards, rules, regulations and codes that may apply to your particular installation. These standards, rules, regulations and codes vary considerably across the various regions of the world and within the various industries. *JLC Solutions* cannot provide definitive information in regards to these worldwide safety and installation issues. In order to provide some guidance in regards to these and other installation and safety issues, please contact the appropriate organization, association, government agency or committee that has jurisdiction over your individual installation and application.

RoHS All *JLC Solutions* products are RoHS compliant.

REACH All *JLC Solutions* products are REACH compliant.

Parts List

Thermotrax



Scanner Retractor Connection Ring



Stainless Steel Retractor Cable Connector



Cable Ties

