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# Lionel TMCC Direct Lockon Owner's Manual

**C**ongratulations on your purchase of the TMCC Direct Lockon! This device allows you to connect your PowerHouse Power Supply directly to the track whenever operating locomotives with TMCC, Legacy, or LionChief electronics. The Direct Lockon features instant power interruption when a short circuit is detected, LED indicators, and automatic power restoration.

## **Installing your TMCC Direct Lockon**

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**T**he PowerHouse Power Supply and Command Base connections are found inside of the structure. Follow these steps and refer to Figure 1 on page 3 as you make these connections.

- 1. Remove the four screws from the bottom of the Lockon structure.**
- 2. Remove the base and lift the structure off the circuit board.**
- 3. Insert the PowerHouse Power Supply plug into the receptacle on the circuit board.**
- 4. Attach the Command Base wire or Legacy Base wire to the spring clip terminal.**

Press down on the top of the terminal clip so that a metal loop is formed. Slide the bare end of the wire into the exposed loop. Release pressure on the terminal clip, allowing the crimped metal to pinch the end of the wire in the metal loop. Give a little tug on the wire to be sure that the connection is secure.

- 5. Use the switch to select the type of PowerHouse Power Supply that you are using.**

Slide the switch to 135 for the 135-Watt PowerHouse Power Supply; slide the switch to 180 for the 180-Watt PowerHouse Power Supply.

- 6. Route the PowerHouse Power Supply cord and the Command Base or Legacy Base wire through the slot as illustrated in Figure 1.**
- 7. Connect the Lockon to the track, then reinstall the structure on the base.**
  - For FasTrack layouts, connect your Direct Lockon to a FasTrack Terminal Section (available separately, 6-12016). Attach the spade-shaped connectors to the terminals under the FasTrack Terminal Section. The red wire is connected to the center terminal (rail). The black wire is connected to the outside terminal (rail).
  - For traditional tubular track layouts a Lionel Universal Lockon (6-24213) must be used to connect power to the track. Use two wires (not included) to connect the Universal Lockon to your TMCC Direct Lockon. The center rail connects to the terminal labeled A and the outside rail connects to the terminal labeled U.

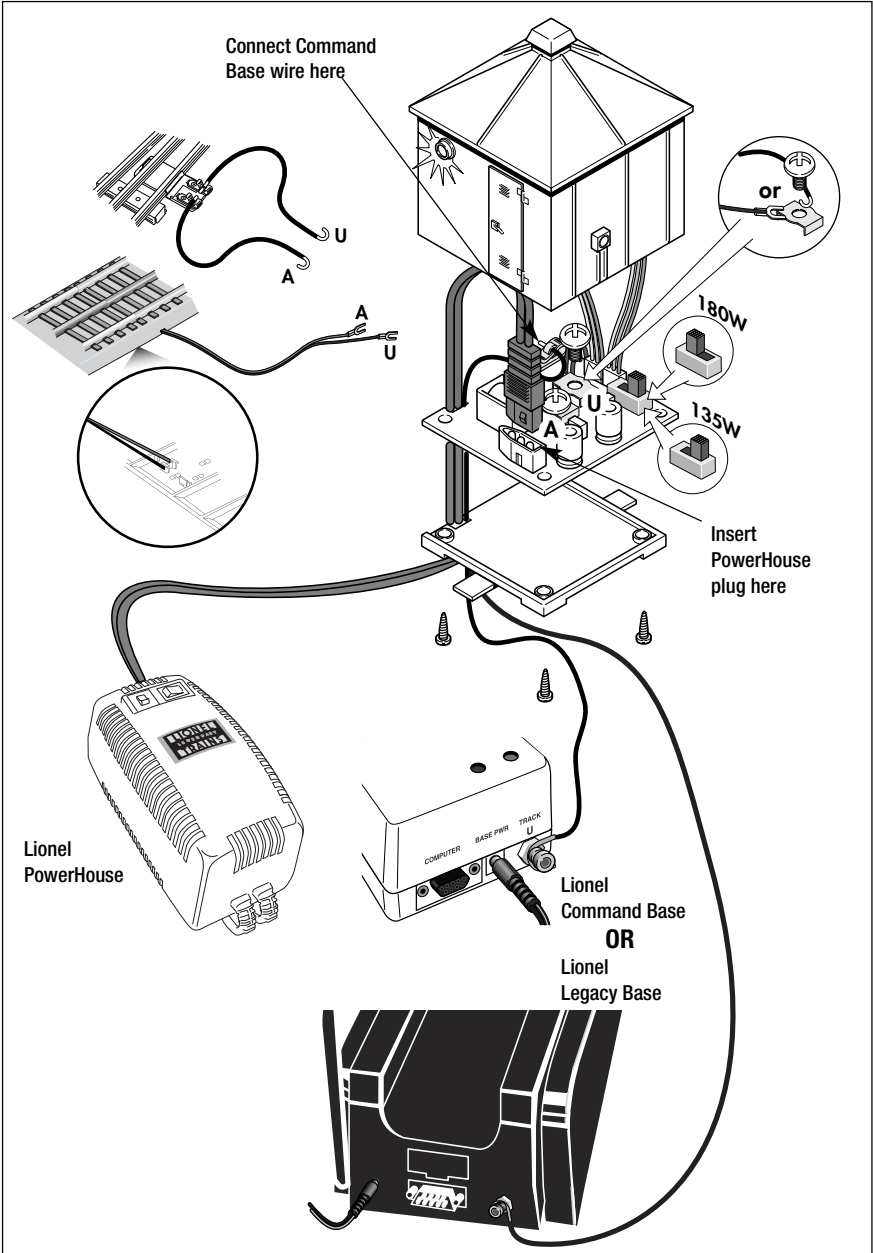


Figure 1. Direct Lockon connections and switch location

## Using a Power Adapter Cable

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**Y**ou also have the option to use a Power Adapter Cable (6-12893) that allows you to use any transformer, such as a CW-80 or a Post-War ZW, with your TMCC Direct Lock-on instead of a PowerHouse Power Supply. Follow these steps to connect the cable and refer to figure 2 on page 5.

- 1. Remove the four screws from the bottom of the Lockon structure.**
- 2. Remove the base and lift the structure off the circuit board.**
- 3. Insert the Power Adapter Cable plug into the receptacle on the circuit board.**
- 4. Attach the two wires protruding from the Power Adapter Cable plug to a transformer.**

Screw the wire with the fuse to the Power A terminal. Screw the remaining wire to the Ground U terminal.

- 5. Attach the Command Base wire OR the Legacy Base wire to the spring clip terminal.**

Press down on the top of the terminal clip so that a metal loop is formed. Slide the bare end of the wire into the exposed loop. Release pressure on the terminal clip, allowing the crimped metal to pinch the end of the wire in the metal loop. Give a little tug on the wire to be sure that the connection is secure.

- 6. Route the Power Adapter Cable cord and the Command Base or Legacy Base wire through the slot as illustrated in Figure 2.**
- 7. Connect the Lockon to the track, then reinstall the structure on the base.**
  - For FasTrack layouts, connect your Direct Lockon to a FasTrack Terminal Section (available separately, 6-12016). Attach the spade-shaped connectors to the terminals under the FasTrack Terminal Section. The red wire is connected to the center terminal (rail). The black wire is connected to the outside terminal (rail).
  - For traditional tubular track layouts a Lionel Universal Lockon (6-24213) must be used to connect power to the track. Use two wires (not included) to connect the Universal Lockon to your TMCC Direct Lockon. The center rail connects to the terminal labeled A and the outside rail connects to the terminal labeled U.

**Note** Because transformers other than the 180W PowerHouse have less amperage than 7.5 amps, you will want to set the amperage switch inside the Direct Lockon to 135W to ensure proper circuit protection. See figure 2 for the location of the switch.

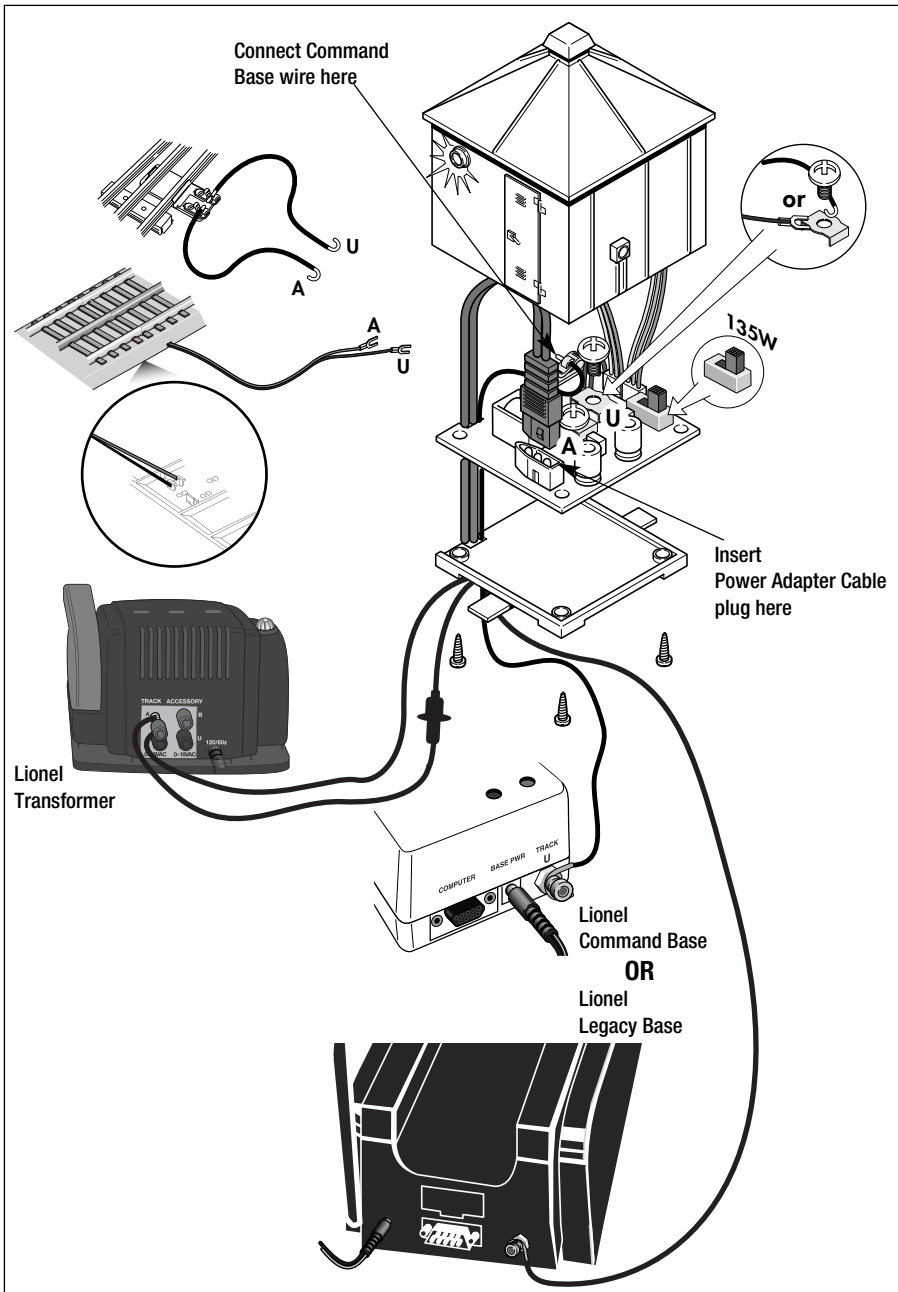


Figure 2. Using a Power Adapter Cable

## Operating your Direct Lockon

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**T**o operate your Direct Lockon, simply plug in the Command or Legacy Base and switch on the PowerHouse Power Supply or transformer. Power will instantly be applied to the track, and the green indicators will illuminate.

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*Lionel®*, *LionChief™*, *LionChief Plus™*, *LEGACY™*, *FasTrack®*, *TrainMaster®*, *Odyssey®*, *RailSounds®*, *CrewTalk™*, *TowerCom™*, *DynaChuff™*, *StationSounds™*, *Pullmor®*, *ElectroCoupler™*, *Magne-Traction®*, *CAB-1® Remote Controller*, *American Flyer®*, *Lionel ZW®*, *ZW®*, *MagniVision®*, *TMCC®*, *Lionelville®*, *Wireless Tether™*, *Powerhouse™*, *LionMaster®*, *Conventional Classics™*, *Postwar Celebration Series™*, *TruRail™*, *PH-1 Powerhouse®*, *Powermaster®*, *Powerstation-Powerhouse®*, *Accessory Motor Controller™*, *AMC™*, *Accessory Switch Controller™*, *ASC™*, *Action Recorder Controller™*, *ARC™*, *Track Power Controller 300™*, *TPC 300™*, *Track Power Controller 400™*, *TPC 400™*, *Block Power Controller™*, *BPC™*, *Operating Track Controller™*, *OTC™*, *FatBoy™*, *Lionel Lines®*, *Joshua Lionel Cowen Series™*, *Lockon®*, *TrainSounds™*, *MultiHorn™*, *MultiWhistle™*, *Choo-Choo™*, *SensorTrack™*, *Plug-n-Play™*, *Imagineering™*

## **Short Circuits**

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**I**n the event of a short circuit, the indicator lights will change to red, and the Direct Lockon will instantly interrupt track power. Once the short circuit or overload is removed, track power will be restored automatically after a short delay.

## Lionel Limited Warranty Policy & Service

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This Lionel product, including all mechanical and electrical components, moving parts, motors and structural components, with the exception of **LIGHT BULBS, LED's & TRACTION TIRES** are warranted to the original owner-purchaser for a period of **one year from the original date of purchase** against original defects in materials or workmanship when purchased through a **Lionel Authorized Retailer\***.

This warranty does **NOT** cover the following:

- Normal wear and tear
- Light bulbs or LED's
- Defects appearing in the course of commercial use
- Damage resulting from abuse/misuse of the product

Transfer of this product by the original owner-purchaser to another person voids this warranty in its entirety. Modification of this product in any way; visually, mechanically or electronically, voids the warranty in its entirety.

Any warranted product which is defective in original materials or workmanship and is delivered by the **original owner-purchaser** (this warranty is non-transferrable) to Lionel LLC or any Lionel Authorized Service Station **MUST** be accompanied by the original receipt for purchase (or copy) from an **Authorized Lionel Retailer\***, will at the discretion of Lionel LLC, be repaired or replaced, without charge for parts or labor. In the event the defective product cannot be repaired, and a suitable replacement is not available, Lionel will offer to replace the product with a comparable model (**determined by Lionel LLC**), if available. In the event a comparable model is not available the customer will be refunded the original purchase price (requires proof of purchase from the **Authorized Lionel Retailer\*** it was originally purchased). Any products on which warranty service is sought must be sent freight or postage prepaid (Lionel will refuse any package when postage is due). **Transportation and shipping charges are not covered as part of this warranty.**

**NOTE: Products that require service that do not have a receipt from an LIONEL AUTHORIZED RETAILER\* will be required to pay for all parts required to repair the product (labor will not incur a charge) providing the product is not older than 3 years from date of manufacture and is within 1 year from date of purchase. A copy of the original sales receipt is required.**

**In no event shall Lionel LLC be held liable for incidental or consequential damages.**

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**S**ome states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This warranty gives you specific legal rights and you may have other rights which vary from state to state.

### Instructions for Obtaining Service

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**I**f service for this Lionel LLC product is required, bring the item, along with your DATED sales receipt and completed warranty information (at the bottom of this page) to the nearest Lionel Authorized Service Station. Your nearest Lionel Service Station can be found by calling 1-800-4-LIONEL or by accessing the website at [www.lionel.com](http://www.lionel.com).

If you prefer to send your Lionel product directly to Lionel, for repair you must **FIRST** call 586-949-4100 extension 2 or write to Lionel Customer Service, 6000 Victory Lane, Concord, NC 28027. Please have the 6-digit Lionel product number, the date of original purchase, the dealer where the item was purchased and what seems to be the problem. You will receive a return authorization (RA) number to ensure your merchandise will be properly tracked and handled upon receipt at Lionel LLC.

Once you have your Return Authorization (RA) number, make sure the item is packed in its original Styrofoam inner container which is placed inside the original outer display box (this will help prevent damage during shipping and handling). This shipment **MUST** be prepaid and we recommend that it be insured with the carrier of your choice.

Please make sure you have followed all of the above instructions carefully before returning any merchandise for service. You may choose to have your product repaired by one of Lionel LLC's Authorized Service Stations after its warranty has expired. A reasonable service fee should be expected once the product warranty has expired.

### Warranty Information

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**P**lease complete the information below and keep it, along with your **DATED ORIGINAL SALES RECEIPT**. You **MUST** present this form **AND** your **DATED SALES RECEIPT** when requesting warranty service.

\*A complete listing of Lionel Authorized retailers can be found by calling 1-800-4-LIONEL or by visiting our website at [www.lionel.com](http://www.lionel.com).

Products that are more than 3 years old, from date of manufacture, are not applicable for warranty coverage, even if they have never been sold prior to this date. (Under no circumstance shall any components or labor be provided free of charge.)

Name \_\_\_\_\_

Address \_\_\_\_\_

Place of Purchase \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Product Number \_\_\_\_\_



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