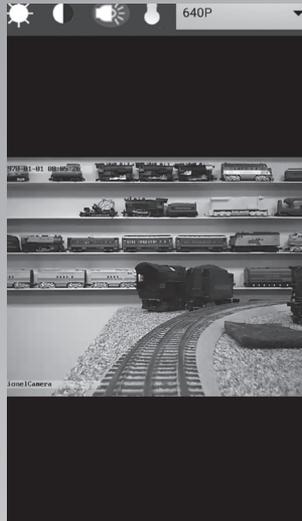


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Lionel WiFi Camera App Owner's Manual

Thank You!

Thank you for your purchase! Be a part of the action! An onboard camera allows for a unique perspective as your train travels the rails of your layout. This manual provides step-by-step instructions on how to connect your camera to your smart device using the Lionel® Wi-Fi Camera App or through your computer.

Technical Specifications

Resolution	1080P/720P/480P Selectable
Video Format	AVO
Frames	25 FPS (frames-per-second) max at 720P resolution
Computer Operation System	Windows/Mac OS X
Mobile Phone Operation System	Android / iOS
Web Browser	IE7 & Above (Chrome, Firefox, Safari etc.)

FCC Statement

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Contains

FCC ID: LIV-WIFICAM1

IC: 7032A-WIFICAM1

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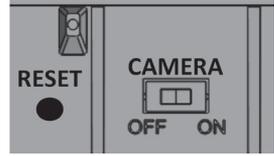
The following Lionel marks are used throughout this Owner’s Manual and are protected under law. All rights reserved.

Lionel®

Camera Car Switches

Locate the ON/OFF switch labeled “Camera” on the underside of your car. Note the location of the reset button as well. Make sure that your ON/OFF switch is in the ON position before placing the car on the track.

Note! Switch locations on the underside will vary between different rolling stock types.



Installing the Lionel Wi-Fi Camera on your smart device

The video feed for a Lionel Wi-Fi camera-equipped car can be streamed to a smart device. This section explains how to install the App and connect to the camera. Make sure your device has access to the internet and that your car has access to a powered-up layout.

1. Download the “Lionel WiFi Camera” from the App Store for iOS devices or from Google’s Play Store for Android devices.



Lionel WiFi Camera greatly simplifies the user to use IPCamera, without cumbersome network configuration, can be easy to watch the live video in the phone, support two-way voice intercom (subject to camera support), support for screenshots, supports real-time recording and playback.

Image 1. Lionel Wi-Fi Camera App install screen

Installing the Lionel Wi-Fi Camera on your smart device continued

- Open your device's Wi-Fi settings and search to locate the camera's user identifier (UID) to connect. The UID should show in the list starting with a CM. Select and connect to the UID.

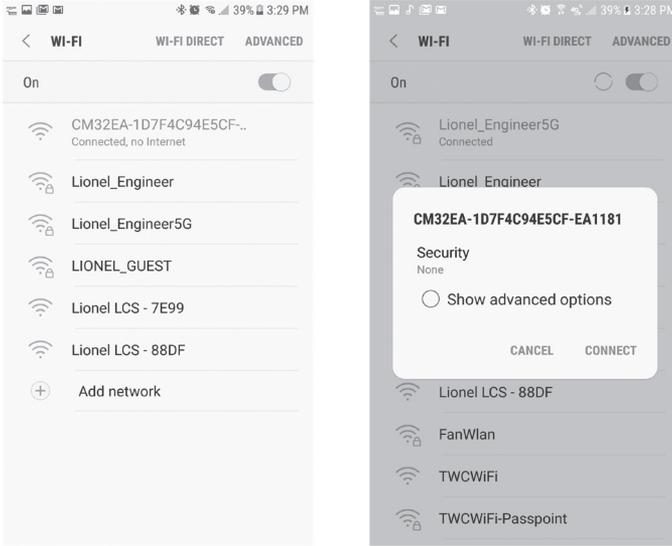


Image 2. Wi-Fi connection using an Android device

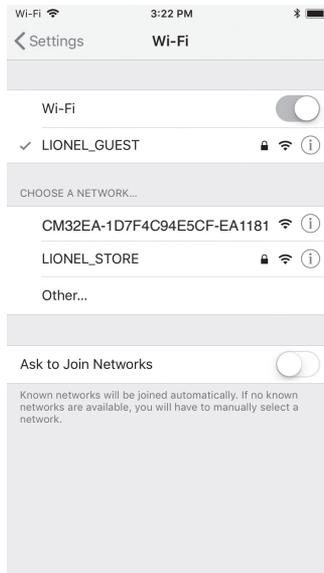


Image 3. Wi-Fi connection using an iOS device

Installing the Lionel Wi-Fi Camera on your smart device continued

- Once you have connected the Wi-Fi to the camera, exit the settings screen and tap the “Lionel WiFi Camera” icon on your device to open.



Image 4. Lionel Wi-Fi Camera App icon

- To connect your device to the Wi-Fi camera, tap the “+” in the upper right hand corner of the App, and then tap “Add new online Device”.

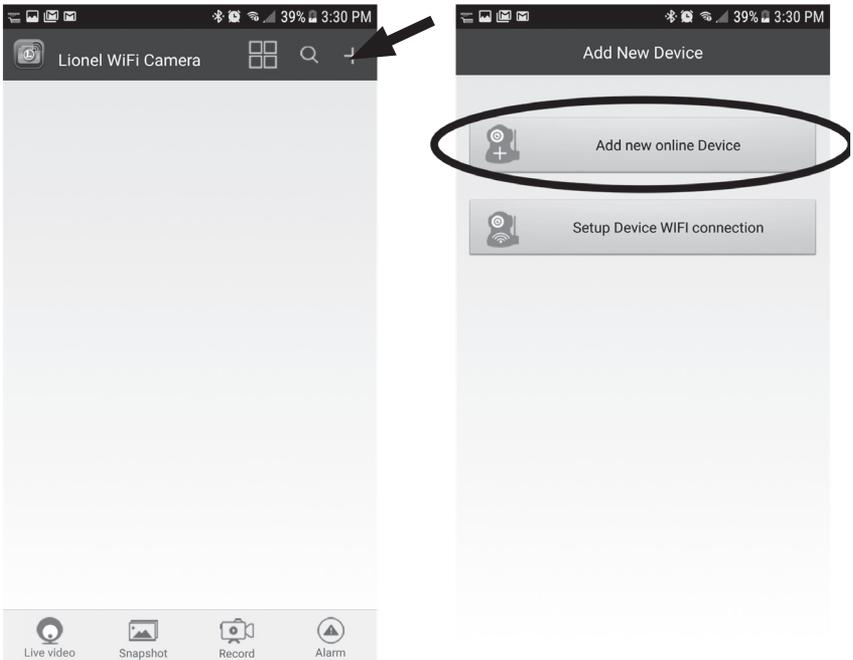


Image 5: App screens for adding new Wi-Fi camera

Installing the Lionel Wi-Fi Camera on your smart device continued

5. Tap “Search(Lan)”. The UID will appear. Tap on that and your camera’s UID should now populate on the “New Device” screen. See below.

Note! By default, the password is 8888.

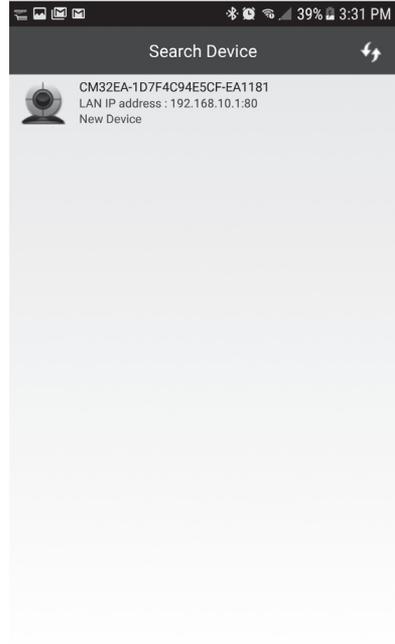
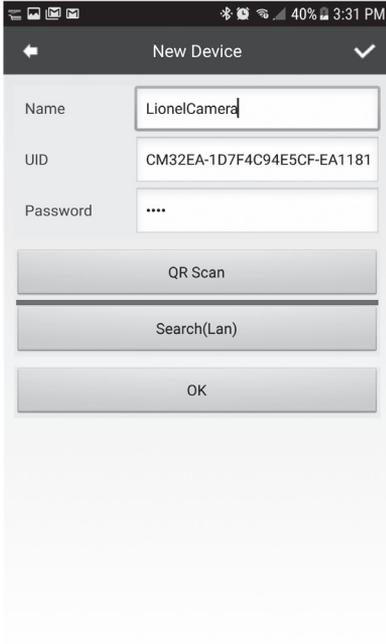


Image 6: Adding new Wi-Fi camera screens continued

Installing the Lionel Wi-Fi Camera on your smart device continued

6. Tap “OK”. This will return you to the App’s main screen. Tap on “Cam Online”.

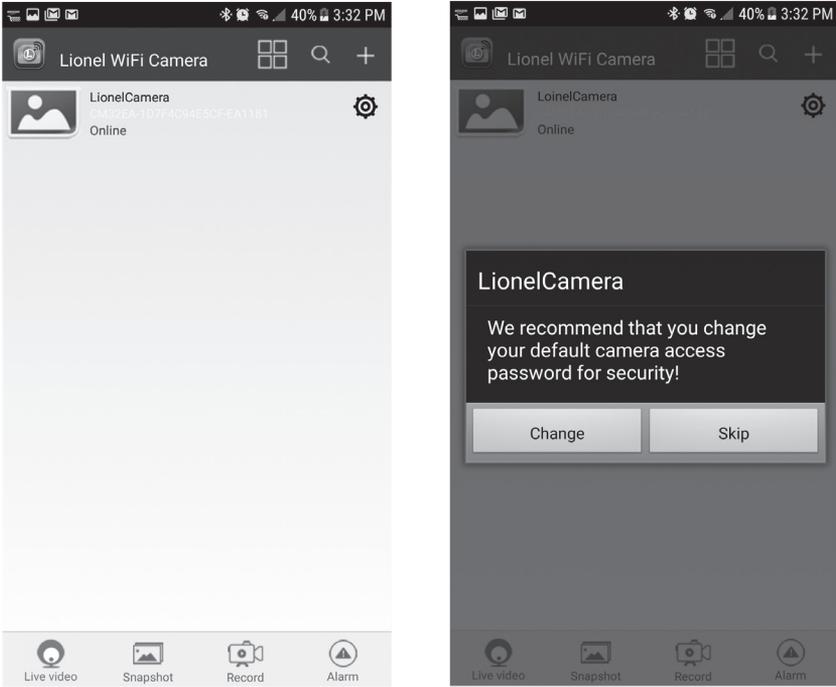


Image 7. App screen showing newly added Wi-Fi camera

Note! If you choose to create your own name for the camera, you may click on the gear icon to edit the default Cam name. A prompt will appear asking if you would like to change the default password. You may choose to change the password at this time.

Tap “Skip” if you would like to keep the default password.

You should now be connected to your camera!

Navigating the “Live Video” screen

Tap into the black area of the video screen to bring up the “Live Video” icons. See image 9 on page 9 for further details.



Image 8. Video streaming screen with and without customization icons

Navigating the “Live Video” screen continued

Pan/Tilt Control	Slide the video to pan or tilt the camera
	Allow users to listen to the camera’s audio feedback and talk to the camera. Note! This camera DOES NOT have a microphone
	Take snapshots and record video files
	Horizontal and vertical cruise
	Flip the image horizontally and vertically
	Adjust the brightness and contrast

Image 9. Icons available to adjust the streaming video

Installing the Lionel WiFi Camera on a PC or Mac

Each Lionel Wi-Fi camera car includes a small blue CD-ROM that software for streaming the camera feed to a PC or Mac.

To load the software onto a computer to stream the WiFi camera feed, follow these steps:

1. Insert CD-ROM in disk drive of PC or Mac.
2. Click on the folder labeled “S06”.
3. If you have a PC, open 1. Windows PC. If you have a Mac, open 2. Apple PC (Mac OS X).



Image 10. CD-ROM Folder Structure

4. Double-click/run the “IP Camera Search Tool V3.0”.



Image 11. CD-ROM Folder Structure continued

5. If your PC asks for permission to run the file, click yes. When the screen below appears, click “Install”.

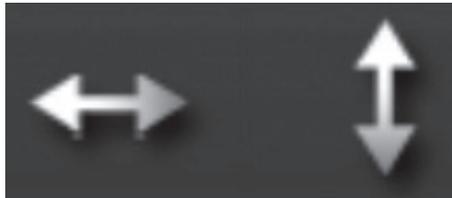


Image 12. IP Camera Search Tool install screen

Installing the Lionel WiFi Camera on a PC or Mac continued

6. After the program installs, click “Finish”.



Image 13. IP Camera Search Tool install screen continued

7. Now enter the “Centralized monitoring software” folder and run the “setup.exe” file.



Image 14. CD-ROM Folder Structure

8. Click “Next” and follow the screens below.



Installing the Lionel WiFi Camera on a PC or Mac continued

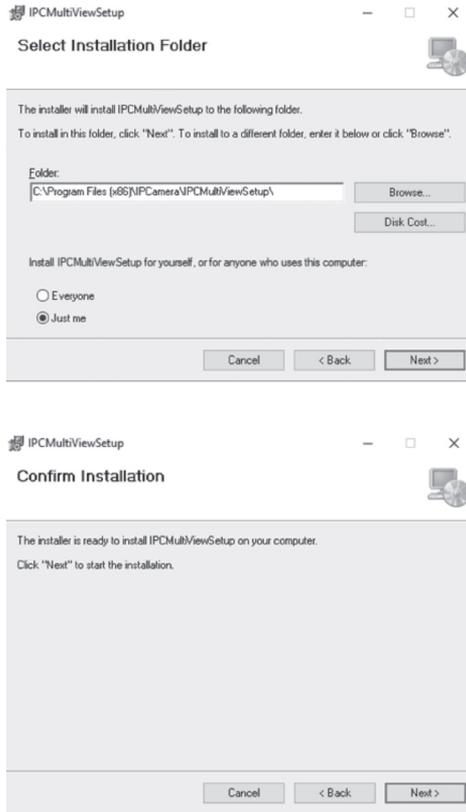


Image 15. IPCMultiViewSetup install screens

9. Repeat the process for the “IPCMultiViewSetup” file.
10. Click “Close” after install.
11. Connect to the WiFi camera using your computer’s network settings. The example on page 11 is named: CMAA09-2ECD7F24D67F-F1556C. Your camera will have a similar name.
12. Run the IP Camera Search Tool v3.0. When the window below appears, click “Allow access”. See image 16 on page 13.

Installing the Lionel WiFi Camera on a PC or Mac continued

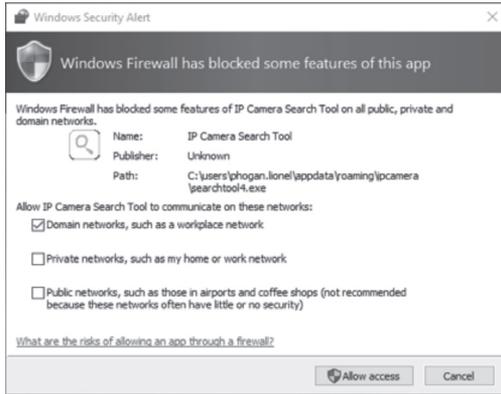


Image 16. Firewall permissions screen – select “Allow access”

13. Click “Search”

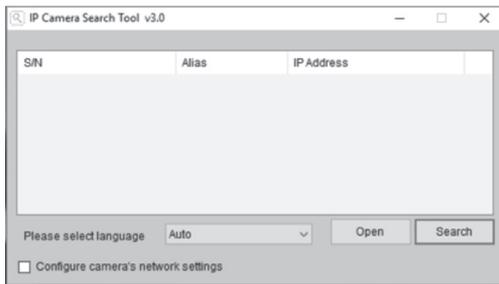


Image 17. IP Camera Search Tool home screen

14. When the camera appears, highlight it by clicking on it.

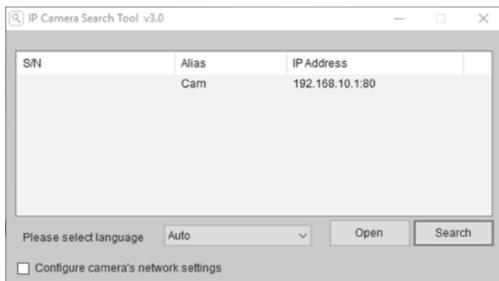


Image 18. IP Camera Search Tool home screen with found camera

Installing the Lionel WiFi Camera on a PC or Mac continued

15. You can configure the camera's network settings by clicking the box to the lower left.

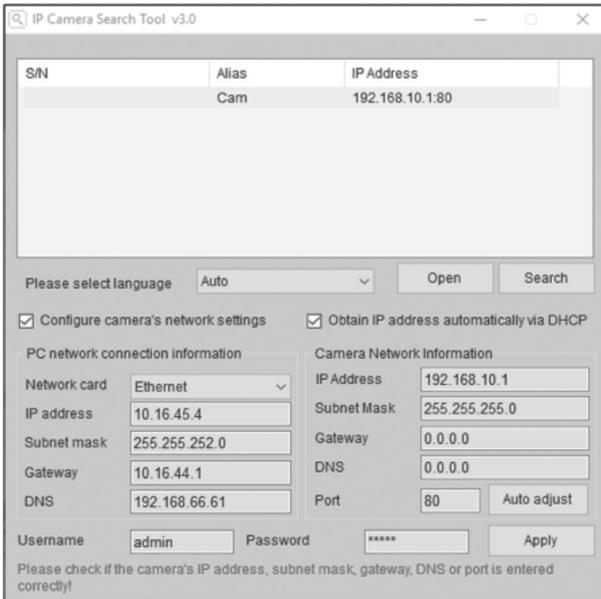


Image 19. IP Camera Search Tool camera configuration screen

You can change the username and password. The default is:

Username: admin

Password: "blank"

Note! It is highly recommended to leave all other settings on this screen as default. Changing them may prevent you from connecting to the camera.

16. Highlight the camera line again and click "Open".

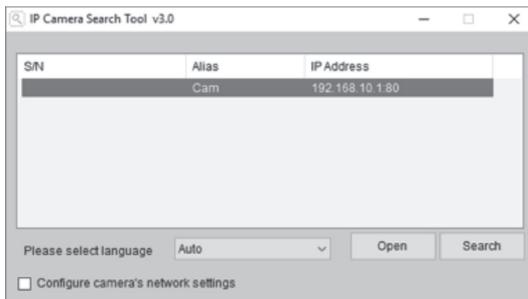


Image 20. IP Camera Search Tool home screen with found camera highlighted

Installing the Lionel WiFi Camera on a PC or Mac continued

17. A web browser will open. Enter the user name and password that you made in Step 14.

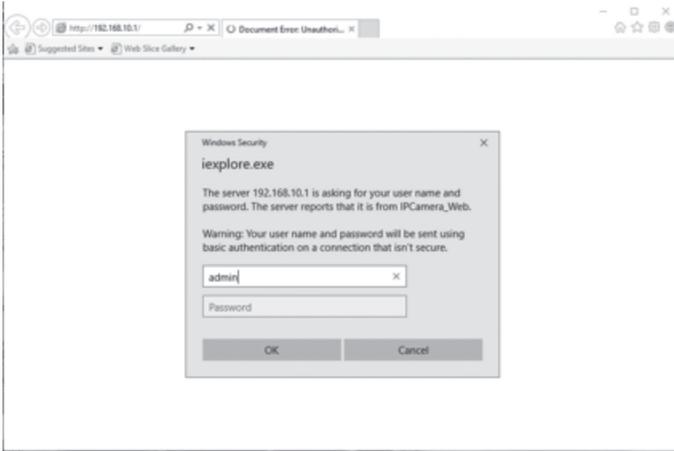


Image 21. Web Browser asking for user name and password

18. Select “Browser Plugins”. If this is the first time you are running the software you must install the player plug-in using the provided software.

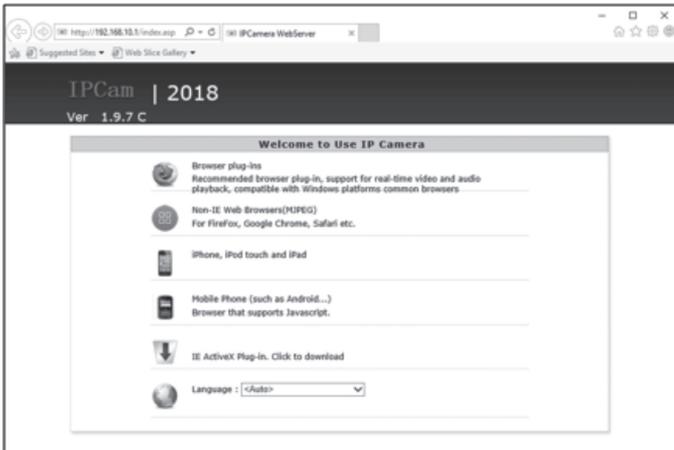


Image 22. Web Browser IP Camera menu

Installing the Lionel WiFi Camera on a PC or Mac continued

19. The camera feed should now appear in the browser.



Image 23. Web Browser streaming video feed

20. Alternately, you can open the "IPCMultiViewSetup" software and view the camera.

Troubleshooting

This section provides helpful tips if you run into issues connecting to your Lionel Wi-Fi camera.

Note! This camera runs off of track power. It is **NOT** recommended to use this car in a conventional environment. If the power is cut even for a second, the camera feed will stop.

Note! The power for the lighting in the camera car is **NOT** an indication that the camera is also getting power. The flicker-free lighting in some camera cars is charged and kept alive by a high value capacitor. This means that even if the car loses power, the lights may remain on for up to one minute.

How to Reset Camera to Factory Settings

If the camera cannot be seen on your device's Wi-Fi menu or the camera feed will not stream to your device, the camera may need to be reset. Locate the reset button on the underside of the car. With the camera switch in the ON position and the car on the track with power applied, press and hold the reset button for 3 to 5 seconds.

Note! You cannot reset the camera if it does not have power applied.

Once you've reset the camera, it may take up to 2 minutes for the camera to appear as "available" on your device. This is due to the camera's reboot sequence.

I still cannot see the camera available from the App or my computer.

The camera is powered by the track. Make sure the track has a constant power supply of 12-18 Volts AC or DC.

- Check that the track and/or wheels and rollers of the camera car are not dirty. If the car cannot get adequate power, the camera will not work.
- Check that the camera switch on the bottom of the car is in the "ON" position.

The lighting in my camera car is not on. Does this mean the camera is also not working?

- The car's lighting has a separate switch on the underside of the car. Make sure that switch is in the ON position if you want the lights to be on. The lights do NOT need to be on for the camera to work. Vice Versa, the camera does NOT need to be on for the lights to work. They are independent from each other.

Troubleshooting continued

The camera feed is slow or the resolution is not very good.

- The strength of the Wi-Fi signal between the camera and the device will dictate how smooth the feed is. Signal can be impeded by things such as tunnels, walls, large metal objects, and distance.
- The higher the setting for the resolution for the camera, the slower the stream will be. This means that if the camera is set to 1080P, you may only get 15 frames-per-second maximum. Setting the feed to 720P could allow for up to 25 frames-per-second. Change these settings for what best suits your personal preference.
- The device that you're streaming the feed to can also affect performance. Older smart devices or computers tend to have less powerful Wi-Fi capabilities.

Lionel Limited Warranty Policy & Service

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.

Some 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

If 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.

If you prefer to send your Lionel product directly to Lionel, for repair you must FIRST call 1-800-4LIONEL (1-800-454-6635) or write to Lionel Customer Service, 6301 Performance Drive, 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

Please 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.

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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