

# Genesis Passenger Set Operation Manual







Thank you for purchasing this RailKing product. PLEASE READ BEFORE USE AND SAVE

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CAUTION: ELECTRICALLY OPERATED PRODUCT:

Not recommended for children under 10 years of age. M.T.H. recommends adult supervision with children ages 10 - 16. As with all electric products, precautions should be observed during handling and use to reduce the risk of electric shock.

WARNING: When using electrical products, basic safety precautions should be observed, including the following:

Read this manual thoroughly before using this device.

- M.T.H. recommends that all users and persons supervising use examine the hobby transformer and other electronic equipment periodically for conditions that may result in the risk of fire, electric shock, or injury to persons, such as damage to the primary cord, plug blades, housing, output jacks or other parts. In the event such conditions exist, the train set should not be used until properly repaired.
  Do not operate your layout unattended. Obstructed accessories or stalled trains may overheat, resulting in damage to your layout.
- This train set is intended for indoor use. Do not use if water is present. Serious injury or fatality may result.
- Do not operate the hobby transformer with damaged cord, plug, switches, buttons or case.
- The transformer was designed to operate on regular US household current (120 volt, 50-60 Hertz). Do not connect to any other source of power.
- To avoid the risk of electrical shock, do not disassemble the transformer unit. There are no user-serviceable parts inside. If the unit is damaged • contact M.T.H. Service for instructions.
- The transformer is equipped with an internal circuit protector. If the circuit protector trips, unplug the power cord from the electrical wall outlet, check your layout for any short circuits. The circuit breaker will reset automatically when the short is removed from the circuit.
- Unplug the transformer from the electrical wall outlet when not in use.
- Do not use this transformer for other than its intended purpose.

#### Transformer Ratings:

Input: 120 VAC, 60 Hz Only, Output: 14VAC 80 W or 18VAC 100W

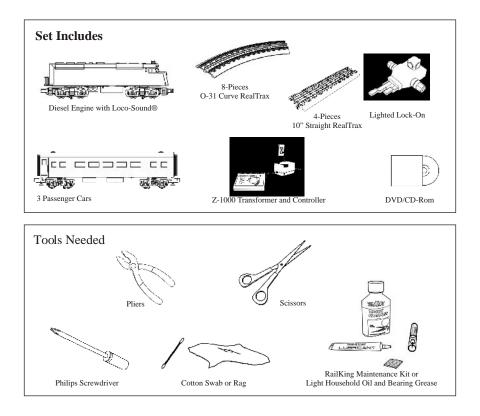
This product may be protected by one or more of the following patents: 6,019,289; 6,280,278; 6,281,606; 6,291,263; 6,457,681; 6,491,263; 6,604,641; 6,619,594; 6,624,537; 6,655,640.

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# Set Up Checklist



- Assemble RealTrax<sup>®</sup>
- Connect the transformer
- Lubricate the engine
- Place the engine and cars on the track and couple them together
  - Apply power to run as described in the Basic Operation section of these instructions.

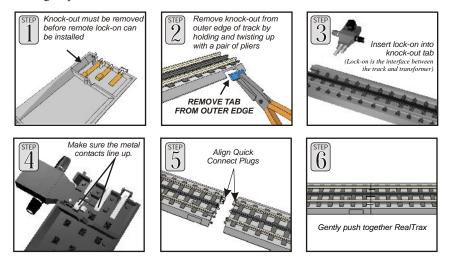


# You can obtain replacement parts and replacement instructions from the M.T.H. Parts Department

e-mail: parts@mth-railking.com phone: 410-381-2580 mail: 7020 Columbia Gateway Drive, Columbia MD 21046-1532

## **Getting Started** Assembling RealTrax<sup>®</sup>

The quick connectors and built-in roadbed allow you to set up RealTrax anywhere, including carpeted surfaces.

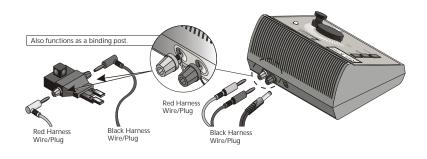


## **Connecting the Transformer**

The transformer included with this set provides an easy-to-use, safe power source for ACpowered trains and accessories.

To complete the connection between the track and the transformer, simply plug in the color-coded wire harness that was included in your set and plug the transformer into your wall outlet.

- Plug the wire from the transformer into the Z-Controller's center port.
- Connect the Wires from the Z-Controller to the Lighted Lock-On, being sure that the wires are connected from red-to-red and black-to-black.
- Unplug when not in use



## Lubricating and Greasing the Engine

Lubricate all exposed moving parts before operating using a multi-purpose, plastic-compatible oil and grease (available with M.T.H.'s Maintenance Kit, sold separately). Follow the lubrication points.

Grease Gears

**Coupling the Engine and Car** 

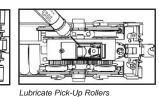
TTTT MANAGEMENT

Position armiture for proper





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(Do Not Lube the Flat Part of Pick-Up Rollers)





# **Basic Operation**

The Throttle knob controls how fast your train will travel.

- Turn the throttle knob up <sup>1</sup>/<sub>2</sub>-way, until the engine and caboose lights shine bright.
- Put the engine into motion by pressing the Direction button on your transformer once. (hold it for approximately 1 second)

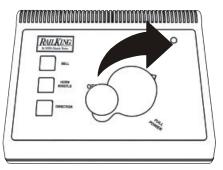
If the engine does not begin to move as soon as you firmly press the Direction button, you may not have sent enough voltage to the track to make the train move. Turn the throttle up a bit higher until the train begins to move.

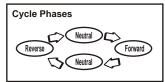
## **Operation Buttons**

**Throttle** To increase or decrease track voltage, and therefore train speed, turn the throttle control knob. Turning it clockwise will increase voltage and speed, while turning it counterclockwise will decrease voltage and speed. The engine will maintain the speed you set after you release the throttle until you turn it again to change the voltage and speed.

**Horn/Whistle** - To sound the whistle, firmly press the Horn/Whistle button. The horn will sound for as long as you continue to depress the button. It will stop when you release the button.

**Direction** Your train is programmed to start in neutral. The train will always cycle neutral-forward-neutralreverse with each press and release of the direction button. The engine is programmed to restart in neutral each time the track voltage is turned off for 25 seconds or more.



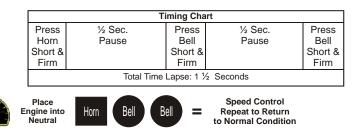


## **Speed Control**

M.T.H. engines equipped with Loco-Sound have speed control capabilities that allow the engine to maintain a constant speed up and down grades and around curves, much like an automobile cruise control. You can add or drop cars on the run, and the engine will maintain the speed you set.

The engine is programmed to start with the speed control feature activated, you can opt to turn it off. This means the engine's speed will fall as it labors up a hill and increase as it travels downward. It is also affected by the addition or releasing of cars while on the run. Because the engine will run more slowly at a given throttle voltage when speed control is on than when it is off, you should adjust the throttle to a lower power level for operation with speed control off to avoid high-speed derailments.

To turn speed control on and off, put the engine in neutral, then quickly tap the transformer's Horn button one time then quickly tap the Bell button two times, allowing approximately ½ second to lapse between each quick button press. Repeat the 1 horn, 2 bells code to return it to the other condition. You will want to do this during the initial neutral upon start-up if you ever couple this engine to another engine that is not equipped with speed control to avoid derailment and damaging the motors in either engine. Each time you shut down the engine completely, it will automatically turn speed control on.



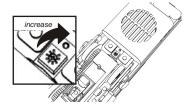
## **Direction Lock**

You can lock your engine into a direction (forward, neutral, or reverse) so that it will not change directions. To do this, put the engine into the direction you want or into neutral, to lock it into neutral, run it at a very slow crawl (as slowly as it will move without halting), and quickly but firmly tap the Horn button once followed by three quick taps of the Bell button, allowing approximately ½ second to lapse between each quick button press. The engine will not change direction (including going into neutral) until you repeat the 1 horn, 3 bells code to return the engine to its normal condition, even if the engine is kept without power for extended periods of time.



### **Manual Volume Control**

To adjust the volume of all sounds made by this engine, turn the master volume control knob located under the engine clockwise to increase the volume and counter-clockwise to decrease the volume.



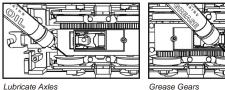
# Maintenance

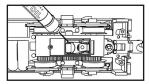


## Lubricating and Greasing Instructions

The engine should be oiled and greased in order to run properly.

Regularly lubricate all axles and linkage components and pickup rollers to prevent squeaking. Use light household oil, such as that found in M.T.H.'s maintenance kit. Do not over oil. Use only a drop or two on each pivot point.

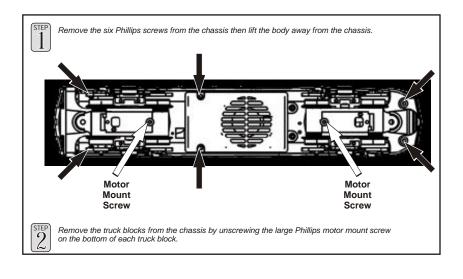


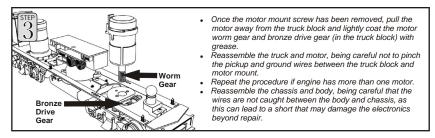


Grease Gears

Lubricate Pick-Up Rollers (Do Not Lube the Flat Part of Pick-Up Rollers)

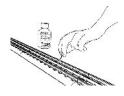
The locomotive's internal gearing was greased at the factory. Grease engine every 50 hours of use or one year. Use a lithium based grease and follow the greasing instructions.





## **Cleaning the Wheels, Tires and Track**

Periodically check the locomotive wheels and pickups for dirt and buildup, which can cause poor electrical contact and traction and prematurely wear out the neoprene traction tires. Wheels and tires can be cleaned using denatured (not rubbing) alcohol applied with a cotton swab.

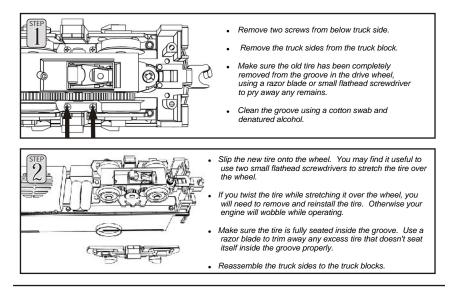


To clean the track, use a clean rag and RailKing Track Cleaning

Fluid or denatured (not rubbing) alcohol. Unplug the transformer and wipe the rails of the track, turning the rag frequently to ensure that you are using clean cloth on the rails. Because the manufacturing process leaves a coating on RealTrax center rail, you should clean the rails after the first 30 minutes of use (you may notice an electrical smell during initial use as the coating wears off; this is normal). Thereafter, keep an eye on the track and clean it when it gets dirty to ensure good electrical contact and to lengthen the life of the tires.

### **Traction Tire Replacement Instructions**

Your locomotive is equipped with four neoprene rubber traction tires on the flanged drive wheels. While these tires are extremely durable, occasional replacement may be necessary.



## Locomotive Light Bulb Replacement

Follow the cab removal instructions found in the Greasing Instructions section of this booklet (page 10).

• Rotate the headlight bulb counter-clockwise to remove.

You can obtain replacement bulbs directly from the M.T.H. Parts Department.

## Passenger Car Light Bulb Replacement

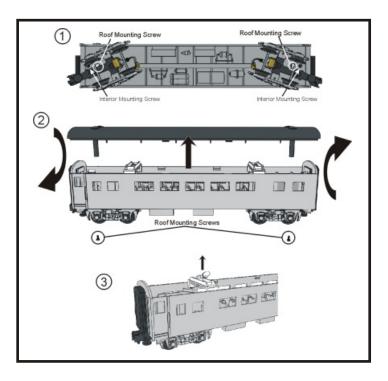
To replace the interior light bulbs follow these instructions and see the diagrams below:

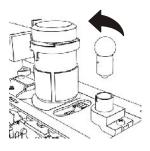
1. Turn the car over and remove the two mounting screws holding the roof on.

**2.** Turn the car back over and gently lift the car roof away from the body and chassis. You may need to twist the car a little to make to roof come loose from the body.

**3.** Gently pull the bulb away from its housing and push the replacement bulb into the housing (like a Christmas tree light).

4. Reassemble in reverse order.





# Quick-Start DVD

The included DVD Quick-Start video demonstrates the start-up and basic operation of this set as well as other information about model railroading. You may find it helpful to view the DVD before operating this set.

# RailWare Interactive CD ROM

M.T.H. provides a free RailWare CD ROM in each Ready-To-Run set. It is full of helpful information on M.T.H. product history, track planning software, a dealer finder, and information and video clips on Loco-Sound and Proto-Sound 2.0. Follow the directions below to use the CD ROM.

Minimum System Requirements: Pentium 100, 16MB RAM, Windows 95 or later, CD ROM drive, Sound Card, display properties set to greater than 256 colors. The CD will not work on a Mac OS unless you run VirtualPC<sup>®</sup>.

# Running RR-Track Software

You may run the RR-Track software directly off of the CD ROM or you may install the software to your hard drive.

- 1. On the Desktop, click on the icon that says My Computer.
- 2. Find your CD ROM drive.
- 3. With the M.T.H. CD ROM in the drive, double click on the icon for the CD ROM drive.
- 4. Find the folder on the CD ROM entitled INSTALLATION.
- 5. Choose the folder inside entitled RRTRAXSETUP.
- 6. Run the file in that folder called SETUP.EXE and follow the directions it provides.

The program may ask you for a registration code. If it does type in "M.T.H." and it will run.

Additional track libraries can be obtained directly from RR-Track. See their website for more information <u>www.rrtrack.com</u>.

# Installing Adobe Acrobat Software

To read some of the electronic documents included on the CD ROM, you will need to install the Adobe Acrobat Reader<sup>®</sup> if it is not already on your computer. To install the software:

- 1. On the Desktop, click on the icon that says My Computer.
- 2. Find your CD ROM drive.
- 3. With the MTH CD ROM in the drive, double click on the icon for the CD ROM drive.
- 4. Find the folder on the CD ROM entitled INSTALLATION.
- 5. Choose the folder inside entitled ACROBAT READER.

\*If you are running Windows 95, 98 or NT choose the folder 32 BIT. Run the file AR32E301.EXE and follow the directions it provides.

If you have problems you cannot resolve by using these directions, contact custserv@mth-railking.com or call 410-381-2580 for further help.

# **Troubleshooting Loco-Sound<sup>™</sup> Problems**

Although Loco-Sound has been designed and engineered for ease of use, you may have some questions during initial operation. The following table should answer most questions. If your problem cannot be resolved with this table, contact M.T.H. for assistance (e-mail: service@mth-railking.com, telephone: 410-381-2580; fax: 410-423-0009; mail: 7020 Columbia Gateway Drive, Columbia MD 21046-1532).

Starting Up	Remedy
When I first turn the power on, the engine will not begin to run.	This is normal behavior. To prevent accidental high-speed start-ups, Loco-Sound is programmed to start up in neutral anytime track power has been turned off for several seconds. See the "Basic Operation" section for more details.
The engine will not start after I press the Direction button.	You may not be sending enough power to the track to power the engine. Press the throttle up for a few more seconds to increase track power.
Horn	Remedy
I can't get the horn to blow when I press the horn button.	You may be pressing the button too quickly. Try pressing the horn button more slowly, taking approximately one full second to fully depress the button.
Bell	Remedy
I can't get the bell to ring when I press the bell button.	You may be pressing the button too quickly. Try pressing the bell button more slowly, taking approximately one full second to fully depress the button.
Lock-out	Remedy
I can't get the engine to run after I power up the transformer. It sits still with the engine sounds running.	The engine may be locked into the neutral position. Follow the procedure in the "Lock into a Direction" section to unlock the engine's direction.
The engine won't lock into forward, neutral, or reverse.	Engine speed must be below 10 scale mph (approx. 10 volts or less in conventional mode).
Volume	Remedy
The sounds seem distorted, especially when the Horn or bell is activated.	Loco-Sound volume is set too high. Turn the volume control knob on the bottom of the chassis counter-clockwise to reduce the volume.
No sound.	Volume is set too low, adjust volume control knob on the bottom of the chassis clockwise to increase the volume or check connector to speaker.

# Compatibility

While this Ready-To-Run set is equipped with everything you need to operate it, the design allows flexibility. The train will operate on any traditional O-31 or larger O Gauge track system, including the RealTrax<sup>®</sup> included with this set or traditional tubular track. It is also compatible with most standard AC transformers, including the hobby transformer packaged with your set.

## **Transformer Compatibility and Wiring Chart**

Note that many of the operational commands described in these instructions require a bell button, so if you are using a transformer other than the one included in this set and your transformer does not have its own bell button, you should consider adding one to get the full benefit of the system.

Transformer Model	Center Rail	Outside Rail	Min/Max. Voltage	Power Rating	Transformer Type
MTH Z-500	Red Terminal	Black Terminal	0-18v	50-Watt	Electronic
MTH Z-750	Red Terminal	Black Terminal	0-21v	75-Watt	Electronic
MTH Z-1000	Red Terminal	Black Terminal	0-14v 0-18v	80-Watt 100-Watt	Electronic
MTH Z-4000	Red Terminal	Black Terminal	0-22v	390-Watt	Electronic
Lionel 1032	U	A	5-16v	90-Watt	Standard
Lionel 1032M	U	А	5-16v	90-Watt	Standard
Lionel 1033	U	А	5-16v	90-Watt	Standard
Lionel 1043	U	A	5-16v	90-Watt	Standard
Lionel 1043M	U	А	5-16v	90-Watt	Standard
Lionel 1044	U	А	5-16v	90-Watt	Standard
Lionel 1053	U	A	8-17v	60-Watt	Standard
Lionel 1063	U	Α	8-17v	60-Watt	Standard
All-Trol	Left Terminal	Right Terminal	0-24v	300-Watt	Electronic
Dallee Hostler	Left Terminal	Right Terminal			Electronic
Lionel LW	Α	U	8-18v	75-Watt	Standard
Lionel KW	A or B	U	6-20v	190-Watt	Standard
Lionel MW	Outside Track Terminal	Inside Track Terminal	5-16v	50V.A.	Electronic
Lionel RS-1	Red Terminal	Black Terminal	0-18v	50V.A.	Electronic
Lionel RW	U	А	9-19v	110-Watt	Standard
Lionel SW	U	А	Unknown	130-Watt	Standard
Lionel TW	U	А	8-18v	175-Watt	Standard
Lionel ZW	A,B,C or D	U	8-20v	275-Watt	Standard
Lionel Post-War Celebration Series ZW	A,B,C or D	Common	0-20v	135/190 Watt	Electronic

# Service & Warranty Information

## How to Get Service Under the Terms of the Limited One-Year Warranty

When you suspect an item is defective, please check the operator's manual for standard operation and trouble-shooting techniques that may correct the problem. Additional information may be found on the M.T.H. Website. Should you still require service, follow the instructions below to obtain warranty service.

First, e-mail, write, call or fax a M.T.H. Authorized Service Center (ASC) in your area to obtain Repair Authorization. You can find the list of ASCs on the M.T.H. Website, www.mth-railking.com. Authorized Service Centers are required to make warranty repairs on items sold *only* from that store; all other repairs may-- or may not be done at the store's own discretion. If you did not purchase the item directly from the ASC, you will need to select a National Authorized Service Center (NASC). These centers are compensated by M.T.H. to perform warranty service for any customer whose repair qualifies for warranty service. A list of NASC retailers can be located on the M.T.H. Website or by calling 1-888-640-3700. Should the warranty no longer apply, you may choose either an ASC or NASC retailer to service your M.T.H. Product. A reasonable service fee will be charged.

CAUTION: Make sure the product is packed in its original factory packaging including its foam and plastic wrapping material to prevent damage to the merchandise. There is no need to return the entire set if only one of the components is in need of repair *unless otherwise instructed by the Service Center*. The shipment must be prepaid and we recommend that it be insured. A cover letter including your name, address, daytime phone number, e-mail address (if available), Return Authorization number (if required by the service center, a copy of your sales receipt and a full description of the problem must be included to facilitate the repairs. Please include the description regardless of whether you discussed the problem with a service technician when contacting the Service Center for your Return Authorization.

Please make sure you have followed the instructions carefully before returning any merchandise for service. Authorized M.T.H. Service Centers are independently owned and operated and are not agents or representatives of M.T.H. Electric Trains. M.T.H. assumes no responsibility, financial or otherwise, for material left in their possession, or work done, by privately owned M.T.H. Authorized Service Centers.

If you need assistance at any time email MTH Service at service@mth-railking.com, or call 410 381-2580.

# **Limited One-Year Warranty**

### All M.T.H. products purchased from an Authorized M.T.H. Train Merchant are covered by this warranty.

See our website at www.mth-railking.com or call 1-888-640-3700 to identify an Authorized M.T.H. Train Merchant near you.

M.T.H. products are warrantied for one year from the date of purchase against defects in material or workmanship, excluding wear items such as light bulbs, pick-up rollers, batteries, smoke unit wicks, and traction tires. We will repair or replace (at our option) the defective part without charge for the parts or labor, if the item is returned to the M.T.H.Authorized Service Center (ASC) where it was purchased or a M.T.H. National Authorized Service Center (NASC) within one year of the original date of purchase. This warranty does not cover damages caused by improper care, handling, or use. Transportation costs incurred by the customer are not covered under this warranty.

Items sent for repair must be accompanied by a return authorization number, a description of the problem, and **a copy of the original sales receipt from an Authorized M.T.H. Train Merchant**, which gives the date of purchase. If you are sending this product to an Authorized Service Center, contact that Center for their return authorization.

This warranty gives you specific legal rights, and you may have other rights that vary from state to state. Specific questions regarding the warranty may be forwarded to M.T.H. directly.

Service Department M.T.H. Electric Trains 7020 Columbia Gateway Drive .Columbia MD 21046-1532



# PARTICIPATING A.S.C. RETAILER LIST

### ALABAMA

SOUTHERLAND STATION HUNTSVILLE 256-533-4720

### **ARIZONA**

ARIZONA TRAIN DEPOT MESA 480-833-9486

CALIFORNIA CENTRAL COAST TRAINS ATASCEDERO 805-466-1391

TRAIN SHACK BURBANK 818-842-3330

REED'S HOBBY SHOP LA MESA 619-464-1672

ROUNDHOUSE NORTH HOLLYWOOD 818-769-0403

DOLLHOUSES, TRAINS & MORE NOVATO 415-883-0388

TIN PLATE JUNCTION OAKLAND 510-444-4780

RON'S WORLD SAN CLEMENTE 949-361-5596

BLACK NIGHT TRAINS & HOBBIES SANTA ROSA 707-523-3522

### COLORADO

CUSTOM RAILWAY SUPPLY COLORADO SPRINGS 719-634-4616

CABOOSE HOBBIES, INC. DENVER 303-777-6766

MIZELL TRAINS WESTMINSTER 303-429-4811

CONNECTICUT TIME MACHINE HOBBY, LL C MANCHESTER 860-646-0610

**FLORIDA** 

AMHERST DEPOT ENGLEWOOD 941-475-2020

DEPOT HOBBY SHOP IANTANA 561-585-1982

HOLLYWOOD STATION MIAMI 954-921-2700

READY TO ROLL MIAMI 305-688-8868

COLONIAL PHOTO & HOBBY ORLANDO 407-841-1485

WARRICK CUSTOM HOBBIES PLANTATION 954-370-0708

ROUNDHOUSE SOUTH PORT ORANGE 386-304-7002 ILLINOIS BERWYN'S TOY TRAINS & MODELS BERWYN 708-484-4384

CHICAGOLAND HOBBY CHICAGO 773-775-4848

BILL'S ENGLEWOOD STATION ORLAND PARK 708-460-4906

BIKE & CHOO CHOO CONNECTION SCHAUMBURG 847-882-7728

Y. O. R. K. TRAINS MUNSTER 219-838-9999

SAMUELSON'S TRAIN SHOP VALPARAISO 219-462-2708

IOWA CABOOSE STOP HOBBIES CEDAR FALLS 800-642-7012

KANSAS HOBBY HAVEN OVERLAND PARK 913-381-3111

### <u>KENTUCKY</u>

L& N TRAINS & THINGS LOUISVILLE 502-897-9005 LOUISIANA AMERICA'S TRAIN YARD BATON ROUGE 225-926-5592

MAINE WHEELS, WINGS & THINGS LUDLOW 207-532-6277

MARYLAND HOBBYTOWN U S A FREDERICK 301-694-7395

FREDERICK JUNCTION FREDERICK 301-694-3434

ENGINE HOUSE HOBBIES GAITHERSBURG 301-590-0816

J & B TRAINS HAGERSTOWN 240-420-4930

THE TRAIN ROOM HAGERSTOWN 301-745-6681

PURKEY'S TOY TRAINS SYKESVILLE 410-549-6061

CATOCTIN MOUNTAIN TRAINS & HOBBIES THURMONT 301-694-8331

E.L. JONES & SONS WILLIAMSPORT 800-810-8138

### MASSACHUSETTS

FLYING YANKEE HOBBY SHOP BOSTON 617-323-9702

NORTHEAST TRAINS PEABODY 978-532-1615

EAST BAY HOBBIES SEEKONK 508-336-5573

PIONEER VALLEY HOBBIES W. SPRINGFIELD 413-732-5531

MICHIGAN MICHIGAN MODEL TRAIN CENTER PINCKNEY 734-426-1651

BRASSEUR ELECTRIC TRAINS INC. SAGINAW 989-793-4753 MINNESOTA DON'S HOBBY CO. MANKATO 507-387-1330

MISSOURIS SWITCH STAND SAINT LOUIS 314-781-4458

MARK TWAIN HOBBY CENTER ST. CHARLES 636-946-2816

#### **NEVADA**

RENO RAILS RENO 775-337-6669

NEW HAMPSHIRE TREASURED TOYS SALEM 603-898-7224

NEW JERSEY HOBBY SHOP ABERDEEN 732-583-0505

COUNTRY AND STUFF ANDOVER 973-786-7086

GENE'S TRAINS BRICK 732-840-9728

COLUMBUS TRAIN STATION COLUMBUS 609-518-1800

ATLANTIC RAILS HAMMONTON 609-567-8490

C B TRAIN DEPOT HILLSDALE 201-666-9598

GRAND CENTRAL STATION KEARNY 201-955-6200

J & B TRAINS, INC. MAPLE SHADE 856-414-0092

HOBBYMASTERS, INC RED BANK 732-842-6020

RIDGEFIELD HOBBY RIDGEFIELD 201-943-2636

TOM'S MODEL TRAINS SCOTCH PLAINS 908-322-6122

TRAINS & THINGS TRENTON 609-883-8790 HOLLY BEACH TRAIN DEPOT WILDWOOD 609-522-2379

NEW YORK

L B C MODEL TRAINS BUFFALO 716-631-3081

KURT'S TRAINS & HOBBIES CALEDONIA 585-538-2960

AURORA RAILS & HOBBIES EAST AURORA 716-652-5718

NASSAU HOBBY CENTER, INC. FREEPORT 516-378-9594

J & R JUNCTION LIVERPOOL 315-451-6551

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