PREMIER 2-8-0 CONSOLIDATION STEAMENGINE OPERATING INSTRUCTIONS



This Premier 2-8-0 Consolidation Steam Engine features a die-cast boiler and tender and operates on O-42 track. This Premier Steam Engine contains state-of-the-art electronics with many built-in automatic features for incredibly realistic operation. Despite these advanced features, the locomotive is easy to operate on an O-42 layout with any compatible standard AC transformer that is equipped with whistle and bell buttons (see the compatibility chart on page 20), and is compatible with most other 3-rail locomotives, rolling stock, and accessories.

This locomotive is equipped with Proto-Sound 2.0 with Digital Command System (DCS). This new system will allow you to operate your locomotive in Command mode (when used with the DCS Remote Control System, sold separately) or Conventional mode. Conventional operating features are described in the following pages, while the **DCS operating features are covered in the set of operating instructions that accompanies the DCS equipment.** Conventional Mode operation of this locomotive is much simpler than operation of original Proto-Sound engines. For your own safety and that of you equipment, please read the instructions before you operate this engine.



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Set Up

There are a couple of simple steps you must take before operating this Premier steamer.

1. Although the engine was lubricated at the factory, you should lubricate all side rods, linkage components and pickup rollers to prevent them from squeaking. Use light household oil and follow the lubrication points marked "L" in Fig. 6 on pg. 12. Do not over-oil. Use only a drop or two on each pivot point

2. Prime the operating smoke unit with smoke fluid before operating. Add 15-20 drops of smoke fluid through the smokestack (see Fig. 3 on pg. 10), then gently blow into the stack to eliminate any air bubbles in the fluid.

3. If you choose not to prime the unit with fluid, turn the smoke unit switch located under the tender to the OFF position (see Fig. 4 on pg. 10). **Running the engine without a primed smoke unit may cause damage**. See the "ProtoSmoke Unit Operation" section of this book for more information on smoke unit maintenance.

4. Place the engine on the track, then insert the reverse unit plug that extends out of the tender into the receptacle at the back of the boiler cab (Figure 1a). **WARNING: DO NOT CONNECT THIS ENGINE TO A TENDER**

FROM ANOTHER ENGINE; IT MAY CAUSE SERIOUS DAMAGE. Look at the bottom of the engine and tender where each will have a color-coded stamp. If they match you may connect those two pieces; if not, don't.

5. Connect the draw bar between the engine and tender. The draw bar hole located farthest from the tender is for applications such as display. The second hole is for normal operation on the track (see figure 1b).



Figure 1a. Connect the Tender to the Engine

At this point, you are ready to begin running your engine.

Figure 1b. Purposes of the Two Holes on the Engine Draw Bar.

Basic Operation

Throttle – Throttle up the power to your track. Give about 10-14 volts or enough power so that the engine's headlight shines brightly. Then put the engine into motion by either firmly pressing the Direction button on your transformer or remote once or dropping and advancing the throttle to put the engine in forward.

Operation Buttons

Use the operation buttons on your transformer or remote as described below.

Whistle/Horn- To sound the whistle, firmly press the Whistle/Horn button. The whistle will sound for as long as you continue to depress the button. It will stop when you release the button. The whistle has four different endings, depending on whether you hold the button for less than three seconds, three seconds, four seconds, or five seconds or longer.

Bell - To sound the bell, firmly press and release the Bell button. To turn the bell off, press and release the Bell button again. The bell will continue to ring from the time you turn it on until you press and release the button again to turn it off.

Direction – Your train is programmed to start in neutral. The first direction after neutral upon start-up is forward. Firmly press and release the Direction button to allow the engine to move forward. Just as you must stop your automobile between forward and reverse, this engine will not go directly from forward to reverse; it goes into neutral between directions. If the train has been moving forward, the first press of the Direction button will put the train from forward into neutral, the second press into reverse, the third press back into neutral, and the fourth back into forward. To prevent accidental high-speed start-ups, this engine is programmed to restart in neutral each time the track voltage is turned off for 25 seconds or more.

Manual Volume Control – To adjust the volume of all sounds made by this engine, turn the master volume control knob located under the tender clockwise to increase the volume and counter-clockwise to decrease the volume (see Fig. 2).



Proto-Sound 2.0 Volume Adjustment Knob Figure 2. Manually Adjusting the Proto-Sound 2.0 Volume

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Proto-Sound 2.0 Operating Instructions

This manual contains the operating instructions for Proto-Sound 2.0 in conventional mode only. Instructions for accessing DCS command mode features accompany the DCS Remote Control System equipment

Because Proto-Sound 2.0 is an all-new system developed by M.T.H.'s own research and development team, it operates differently from original Proto-Sound. Most Proto-Sound 2.0 features are automatically enabled, and the reset state has been eliminated, so there is no need to program features as with original Proto-Sound. Although the new system is easier to operate than original Proto-Sound, you should read these instructions thoroughly before using Proto-Sound 2.0 features in order to prevent harm to yourself or your equipment.

Activating Proto-Sound 2.0 Conventional Mode Features:

Proto-Sound 2.0 features are activated by sequences of Bell and Whistle button pushes described below. Please read the full descriptions of each feature before using it. To use these buttons to activate features rather than tc blow the whistle or ring the bell, you should press the buttons for a shorter time (1/2 second); you may need to practice your timing to make this work smoothly.

Freight Yard Sounds (FYS):

Your engine is equipped with a sound package of freight yard sounds that you can play when you pull into a yard. Each sequence described below will play as long as it is left on, randomly generating sounds, but be sure to allow approximately 30 seconds between the button pushes described below to allow the FYS sufficient time to run through each sequence.

1. To cue the sound system to play the FYS, quickly, but firmly tap the Bell button once followed by 2 quick taps of the Whistle button while the engine is moving. Tap the buttons quickly, but allow approximately ½ second between each press.

2. Press the Direction button or drop and advance the throttle once to stop the engine. This will trigger the first sequence of FYS. The reverse unit is temporarily disabled so that the train will not move as you use the Direction button to trigger the sounds, and Proto-Sound 2.0 has disabled operator control over the Whistle and Bell buttons until the full FYS sequence is complete.

3. After waiting about 30 seconds for that sequence to run, press the Direction button again to trigger the second sequence of FYS.

4. After about 30 seconds, press the Direction button again to trigger the third FYS sequence.

5. Again, after allowing about 30 seconds for that sequence to run, press the Direction button one more time to trigger the fourth and final FYS sequence. The FYS will continue, and within a few seconds, the engine will start and move out on its own at the current throttle setting, in the same direction it was traveling when you began the sequence with the bell ringing. Once the bell turns off, the operator regains control of the transformer's bell and whistle buttons and can ring the bell or blow the whistle as usual.

Tips on Using FYS

• You can terminate FYS at anytime by turning off power to the track for 15 seconds.

• You do not have to be in Forward to use FYS. At the conclusion of the full sequence, the train will pull away from the station in whatever direction you were going when you activated the feature.

• You can use FYS even if you are double-heading with another engine. If the second engine is not equipped with FYS at all, you must remember not to leave the throttle at a high voltage level once you have stopped the engine to run the FYS. Otherwise, the engine without FYS will begin vibrating on the track as its motors strain to move the train, since they cannot be automatically disabled during the FYS cycle. If the second engine is an original Proto-Sound engine equipped with FYS, you may choose to disable it when used in double-heading operations, so you will not experience competing FYS sounds. To disable FYS in an original Proto-Sound engine, see the operating instructions for that engine.

• FYS can be triggered from Neutral. It will operate the same as if triggered while in motion except that, at the conclusion of the FYS, the engine will depart in the next direction of travel, as opposed to the direction it was traveling before entering Neutral.

Proto-Coupler[®] Operation

This locomotive is equipped with a coil-wound Proto-Coupler for remote uncoupling action. Because the Proto-Coupler is controlled through the Proto-Sound 2.0 microprocessor, it does not require an uncoupling track section or modification to your layout to function. You can fire the couplers from neutral or while in motion. Use the code shown below (and in the chart on pg. 5) to fire the coupler.

Rear Coupler:

To fire the rear coupler, press the Bell button once followed immediately by three pushes of the Whistle/Horn button. The sound of the liftbar and air line depletion will play, and the knuckle will be released.

Speed Control:

M.T.H. engines equipped with Proto-Sound 2.0 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.

While 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.

To turn speed control on and off, put the engine in neutral, then press the transformer's Whistle button one time then immediately press the Bell button two times. Two whistle blasts will indicate that the engine has made the change. Repeat the 1 whistle, 2 bells code to return it to the other state. 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 damaging the motors in either engine. Each time you shut down the engine completely, it will automatically turn speed control on.

Note: When speed control is turned off, the Proto-Sound 2.0 system will limit the volume in order to operate more smoothly at lower voltages. Full volume is restored upon reactivating speed control.

Lock into a Direction:

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 press the Whistle/Horn button once followed immediately by three presses of the Bell button. Two whistle blasts will indicate that the engine has made the change. The engine will not change direction (including going into neutral) until you repeat the 1 Whistle/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.

Reset to Factory Defaults:

To override the settings you currently have assigned to the engine and reset it to its factory defaults, while in Neutral press the Whistle/Horn button once, followed immediately by five quick pushes of the Bell button. Two whistle blasts will indicate that the engine has made the change.

Automatic Sounds:

Certain Proto-Sound 2.0 sound effects automatically play in programmed conventional mode conditions:

Squealing Brakes play any time the engine's speed decreases rapidly.

Cab Chatter plays at random intervals when the engine idles in neutral.

Engine Start-up and Shut-down sounds play when the engine is initially powered on or is powered off for five seconds or more

Maintenance

ProtoSmoke[®] Unit Operation

This Premier steam locomotive contains a self-powered smoke unit that outputs smoke through the smokestack on the roof of the engine. The smoke unit is essentially a small heating element and wick that soaks up and then heats a mineral oil-based fluid that emits a harmless smoke. The smoke is then forced out of the stack by a small electric fan. Smoke volume is controlled by the Proto-Sound 2.0 system.

With a few easy maintenance steps, you should enjoy trouble-free smoke unit operation for years.

When preparing to run this engine, add 15-20 drops of smoke fluid through the smokestack (see Fig. 3). We recommend M.T.H. ProtoSmoke, Seuthe, LGB, or LVTS fluids. Do not overfill the unit or the fluid may leak out and coat the interior engine components.

If you choose not to add the fluid (or have already added the fluid but choose to run smoke-free), turn off the smoke unit switch located under the tender (see Fig. 4). Failure either to add fluid to the unit or to turn it off may damage the smoke unit heating element and/or wick material.

When the smoke output while running the engine begins to diminish, add another 10-15 drops of smoke fluid or turn the smoke unit off.

When storing the unit for long periods of time, you may want to add about 15 drops of fluid to prevent the wick from drying out.



Figure 3. Add Smoke through the Smokestack



Smoke Unit ON/OFF Switch Switch

After removing the engine from storage, add another 25 drops of fluid, letting the wick soak up the fluid for 15 minutes prior to operation.

If you experience poor or no smoke output when the smoke unit is on and has fluid, check the wick to see if it has become hard, blackened, and unabsorbent around the heating element. To remove the smoke unit you will first have to remove the boiler shell (by removing the body mounting screws shown in Fig. 7a on pg. 12), board and bracket that block the smoke unit assembly from being accessed. To do this, follow these instructions:

1. Unplug the two wiring harnesses from the board mounted to the inside of the boiler and behind the smoke unit.

2. Pry the board away from the bracket using a small screwdriver.

3. With the board free of the bracket, use a phillips head screwdriver to remove the bracket from the inside of the boiler shell (see figure 5a).

4. Set the board and the bracket aside, unscrew the one screw holding the smoke unit assembly from the boiler shell. Slide the smoke unit assembly all the way towards the back of the boiler to free it. Once the unit is freed, remove the inspection cover (Fig. 5b). Inspect the wick; if it is darkly discolored and hard, it should be replaced.

Replacement parts and wick replacement instructions are available directly from the M.T.H. Parts Department:

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



Remove screw to remove board bracket

Figure 5a. Accessing the Smoke Unit



Figure 5b. Inspecting the Smoke Unit

Lubrication and Greasing Instructions

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

You should regularly lubricate all side rods, linkage components and pickup rollers to prevent them from squeaking. Use light household oil and follow the lubrication points marked "L" in Fig. 6. Do not over-oil. Use only a drop or two on each pivot point.

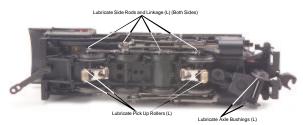


Figure 6. Lubrication Points on the Locomotive

The locomotive's internal gearing was greased at the factory and should not need additional grease until after 50 hours of operation or one year, whichever comes first. To access the gear box and axles, do the following:

1. Turn the engine upside down.

2. Remove the boiler by removing the body mounting screws shown in Fig. 7a

Remove the Phillips screw (marked "GREASE") located at each set of wheels (Fig. 7a) and the gearbox cover screws (Fig. 7b on pg. 13).
 Use a grease tube dispenser to put a small amount (approx. 1-2 ml.) of lithium-based grease into the gearbox and axles.
 Replace the screws and reassemble the boiler.

You should also grease the leading and trailing locomotive truck tongues to enhance their ability to slide on the chassis. Follow the grease points shown on Fig. 7a.

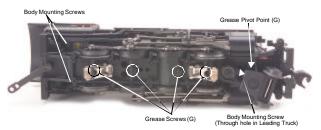


Figure 7a. Location of Body Mount Screws and Greasing Points on the Locomotive

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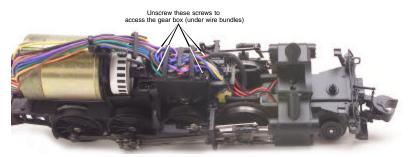


Figure 7b. Screws to remove to access the gear box.

Periodically check the locomotive wheels and pickups for dirt buildup, which can cause poor electrical contact and traction as well as prematurely wear out the neoprene traction tires.

Traction Tire Replacement Instructions

Your locomotive is equipped with two neoprene rubber traction tires on the rear set of flanged drivers. While these tires are extremely durable, you may need to replace them at some point.

1. Remove the side rods from the wheels in order to slip the new tire over the grooved drive wheel. Make sure to note the position of all rods before removing

2. Make sure the old tire has been completely removed from the groove in the drive wheel, using a razor blade or small flathead screwdriver to pry away any remains.

3. Slip the new tire onto the wheel. You may find it useful to use two small flathead screwdrivers to stretch the tire over the wheel.

4. If you twist the tire while stretching it over the wheel, you will need to remove and reinstall the tire. Otherwise your engine will wobble while operating.

5. Make sure the tire is fully seated inside the groove. Use a razor blade to trim away any excess tire that doesn't seat itself inside the groove properly.

6. Reinstall the side rods in the same positions as noted. Failure to align rods may cause binding or damage to the drive system.

One set of replacement tires is included with your model. Additional sets are available directly from the M.T.H. Parts Department.

Light Replacement Instructions

The locomotive's lights are controlled by a constant voltage circuit in the engine. They are easy to remove and replace when they burn out. See the diagrams and directions below for instructions on accessing and replacing the light bulbs in this locomotive.

You can obtain replacement bulbs directly from the M.T.H. Parts Department (phone: 410-381-2580; e-mail: parts@mth-railking.com; mail: 7020 Columbia Gateway Drive, Columbia MD 21046-1532)

Headlight:

1. To replace the headlight in this model you will need to follow the disassembly instructions for smoke unit maintenance in figure 5a on pg. 11. Once the smoke unit is removed you can access the wires for the headlight (see figure 8a).

2. Gently pull the wires connected to the lights out until you can access the wire connectors, and unplug the connectors.

3. To replace the white headlight, gently pull the wires until the bulb comes free of the housing. Push the new bulb into place and reconnect the wires.

Firebox and Cab Interior Lights:

1. Remove the boiler from its chassis as shown in Fig. 7a on pg. 12

2. Unplug the black wires from their connector (see figure 8b).

3. Remove the firebox light bulb by pulling it down and out of its bracket. You may find it easier to unscrew the bracket from the boiler



Wires for headlight

Figure 8a. Replacing the Headlight



Figure 8b. Furebox and Cab Lights

before removing the bulb. Replace the bulb by pushing it up and into the bracket. You may need to use small pliers to do this.

4. Remove the cab interior light by pulling gently on the wire until the bulb comes free of its housing. Push the replacement bulb into position.

5. Reassemble in reverse order, being careful not to pinch any wires.

Tender Light:

Remove the body from the chassis by removing the 6 screws shown in Fig.
 9.

- 2. Unplug the wire from the connector.
- 3. Unscrew the bracket that houses the light bulb from inside the tender.
- 4. Gently pull the bulb to remove it and push the replacement bulb into place.
- 5. Reassemble in reverse order, being careful not to pinch any wires.

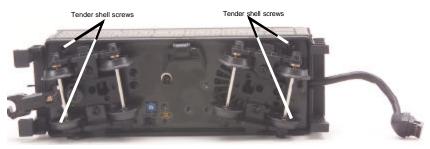


Figure 9. Screws to remove the tender shell

Note: There will be an extra LED light inside the tender. This light is there to balance the current draw in the Proto-Sound 2.0 circuitry.

Self-Charging Battery Back-Up

The special NiCad 7-cell 8.4v self-charging battery in this engine improves performance at any speed. It ensures that power to the sound system will remain on during directional changes or when travelling over dirty track or switches. The self-charging battery system is automatically turned on or off whenever track power is turned on or off.

Track power (when applied) recharges the battery, which should last for up to five years, and the special NiCad battery is a dry battery that should not leak or cause any damage to your engine. However, even this special battery will eventually wear down and need to be replaced. When you notice that your engine sounds seem distorted or garbled at low voltages or become silent when power from the transformer is turned off, test the battery to determine whether it should be recharged or replaced.

Put the engine in neutral and leave the track voltage at 12 volts for 15 minutes

If the garbled or distorted sounds are reduced, the battery charge has run down and can be recharged. Do this by leaving the engine in neutral with track voltage at 12 volts for 6-7 hours so the battery can fully recharge (be sure the smoke unit is turned off). Or you can remove the battery (see figure 11 below) and charge it in any standard slow charge battery recharger, following the recharger's directions.

If the sounds are not improved at the end of the 15 minute test charge, it is time to replace the battery (see figure 11 below). Contact the M.T.H. Parts Department (phone: 410-381-2580; e-mail: parts@mth-railking.com; mail: 7020 Columbia Gateway Drive, Columbia MD 21046-1532) for a replacement battery. A standard 9v alkaline battery can be substituted until your replacement arrives, but since alkaline batteries cannot be recharged, it will eventually wear down. Do NOT use a 6-cell 7.2v battery like those found in most convenience stores.

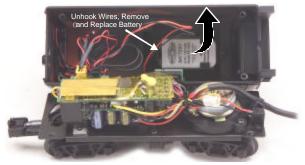


Figure 11. Replacing the Battery

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Troubleshooting Proto-Sound® 2.0 Problems

Although Proto-Sound 2.0 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 (telephone: 410-381-2580; fax 410-423-0009; service@mth-railking.com, 7020 Columbia Gateway Drive, Columbia MD 21046-1532).

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Compatibility

This engine will operate on any traditional Q-42 Gauge track system, including M.T.H.'s RealTrax[®] or ScaleTrax[°] or traditional tubular track. It is also compatible with most standard AC transformers. (See page 20 for a complete list of compatible transformers and wiring instructions.)

Transformer Compatibility and Wiring Chart

Proto-Sound 2.0 is designed to work with most standard AC transformers. The chart below lists the many compatible transformers. Note that many of the operational commands described in these instructions require a bell button, so if your transformer does not have its own bell button, you should consider adding one to get the full benefit of the system. In addition, the chart details how the terminals on these transformers should be attached to your layout.

Additional Features with the DCS Remote Control System:

While conventional mode operation of a Proto-Sound 2.0 engine yields wonderfully realistic sound and several train control features, command mode operation allows the user to access a world of command functions never before accessible to O Gauge railroaders. With the addition of the DCS Remote Control System (including a DCS remote handheld and Track Interface Unit) users gain many advanced features, including:

• DCS Proto-Speed Control - Establishes desired locomotive speed in scale miles per hour increments via a thumbwheel control and allows operator to set maximum speed and acceleration/deceleration rates

• ProtoSmoke [®] Variable Output Control - Controls how much smoke each engine outputs and matches smoke to locomotive speed

• Locomotive Lighting Control - Controls locomotive headlights, marker and interior lights, beacon lights, ditch lights, and MARS lights

• Emergency Stop-Single button push stops all Proto-Sound 2.0 trains but does not turn off the power

• One Touch Global Mute/UnMute-Single button mutes or unmutes all DCS-controlled locomotives' user-defined actions, including sound, lights and smoke

• Proto-Dispatch Operation-Public Address-like feature allows users to speak through locomotive speaker during operation

• Proto-Cast-Allows users to play audio recordings through locomotive speaker during operation

• Proto-Doppler Sound Effects Set Up-Users can configure locomotive for Doppler Operation, including setting distance points for Doppler start, repeat, and stop modes

• Independent Volume Control of Engine Sounds, Bell, Horn & Whistle for each Locomotive

 \bullet Control up to 50 different DCS-Equipped Locomotives at one time with multiple TIUs

• Proto-EffectsTM Set Up-User can select individual Proto-EffectsTM operations to be active or inactive, including cab chatter, train wreck sounds, coupler sounds, and wheel clickety-clack sounds

• Direction Control Set Up-User can set initial individual start-up direction (start in forward or reverse) for double-heading operations

• Locomotive Consist Set-up-User can determine locomotive values for consist make-ups, allowing multiple locomotives belonging to a consist to operate together

• Query Locomotive Information-User can query locomotive programming to learn locomotive address and engine data information, including scale miles traveled

• User Can Query, Set and Operate Track and Accessory Interface Units for Programming Digital Command Operations for up to 250 Accessories and 250 Individual Switches

• User Can Script, Record and Playback Train Routes

Operating instructions for all DCS Command features will accompany the DCS remote control equipment.

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 followed including the following:

- R ead this manual thoroughly before using this device.

- M.T.H. recommends that all users and persons supervising use examine the hobby transformer 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 transformer should not be used until properly repaired.

- As with all electrical appliances, this product should not be left in operation when unattended.

Service & Warranty Information

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

For warranty repair, follow the instructions below to obtain warranty service.

First, e-mail, write, call or fax an Authorized M.T.H. Service Center in your area or M.T.H.
 Electric Trains to obtain Repair Authorization. You can find the list of Authorized Service Center s
on the M.T.H. website, www.mth-railking.com. Otherwise, contact M.T.H. (at e-mail:
service@mth-railking.com; 7020 Columbia Gateway Drive, Columbia, MD 21046; tel:
410-381-2580; fax: 410-423-0009), stating when the item was purchased and describing the
problem. If you contact M.T.H., you will be given a return authorization number to assure that your
merchandise will be properly handled upon its receipt.

2. CAUTION: Make sure the product is packed in its original factory packaging including its foam and plastic wrapping material so as to prevent damage to the merchandise. 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, 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 or M.T.H. for your Return Authorization.

3. Please make sure you have followed the instructions carefully before returning any merchandise for service.

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 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 light bulbs 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 an Authorized M.T.H. Service Center or M.T.H. Electric Trains 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 the item to M.T.H., call 410-381-2580, fax 410-423-0009, or e-mail the Service Department at to obtain a return authorization number. 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 t o state.