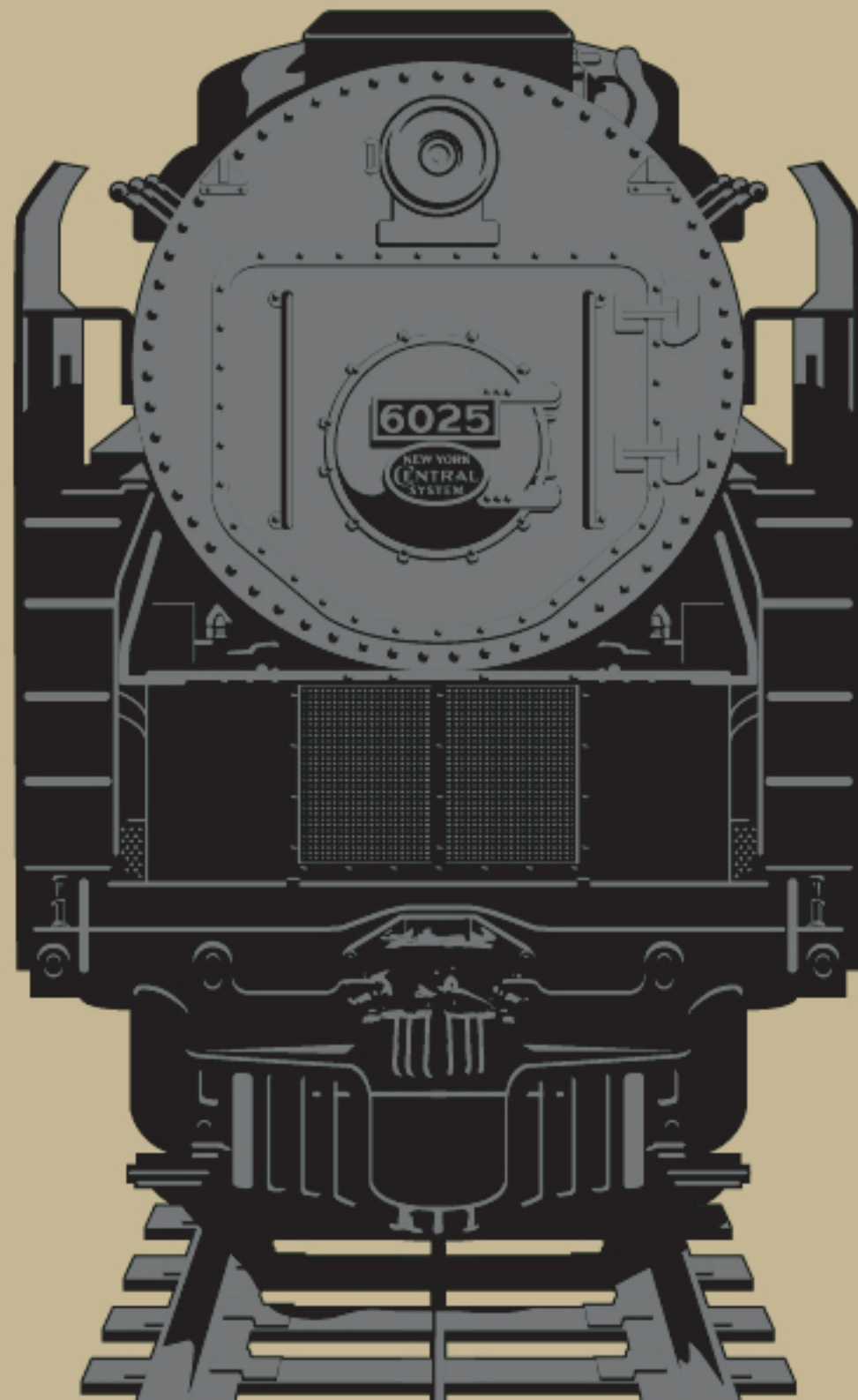




M.T.H. ELECTRIC TRAINS®

2000 Volume Three



INTRODUCTION



Our product line has grown enormously over the past few years. In 2000 it's bigger and better than any previous M.T.H. lineup, so this year we are printing two catalogs: one for our RailKing® Line, and one for our Premier and Tinplate Traditions™ Lines. Both books are filled with model railroading products that will capture the interest of virtually every rail enthusiast.

At M.T.H. we create our collection of model railroad products based on what we know railfans want. We listen to model railroaders--what you say at train collectors' conventions, through dealer feedback, and via mail and e-mail--to determine what's missing, to find out what you want but do not yet see on the market. We also stay tuned in to what your favorite items are, and we constantly work on ways to make these products better and more innovative for you.

M.T.H. ELECTRIC TRAINS®

At M.T.H. Electric Trains®, we believe offering model railroaders as much variety and authenticity as possible is not enough. We are also dedicated to providing the most technologically advanced model railroading equipment available. At M.T.H. we believe that it is important to keep abreast of the technology explosion so that we can continue to provide you with model railroading equipment--whether it be engines, accessories, track, or operating systems--that continues to make the hobby easier and more realistic than ever before. To that end, we recently invested more than \$2 million on new technology to improve your model railroading experience. M.T.H. is proud to introduce our new locomotive sound and train control systems. We believe they will make your operating experience more enjoyable, more realistic, and easier than you could have imagined.

Our most exciting new system is Proto-Sound® 2.0 with Digital Command System. This revolutionary command and sound system has a sampling rate twice that of the best digital sound system previously available in O gauge model railroading. It is dramatically improved technology that provides for more authentic sound than anything we or our competitors have produced in the past. Among other things, it uses its technology to take advantage of the Doppler principle to mimic the growing and fading sounds of a train as it approaches and passes, just like the prototypes. You can also run

your own sound--either your own voice or a favorite tape--through the system to individualize your locomotives. Proto-Sound 2.0 provides many more sound options than have been available in the past and comes bundled

with our revolutionary new Digital Command System (DCS) that allows for more realistic operation of your DCS-ready engines. M.T.H.'s Digital Command System allows for individual control of each engine and accessory on your layout. You'll get variable locomotive speed control, independent lighting control, diagnostic memory features, customizable, downloadable sounds, and simultaneous TMCC® operation, among many other exciting new features. Read more about these revolutionary new features and how they can enhance your railroading experience in the Proto-Sound 2.0 section of the catalog.

We have also replaced the electronic whistles and horns available on RailKing engines with our new Loco-Sound™ system, to give you a more authentic sound than before, but still at a lower price than with the new Proto-Sound 2.0 system. Loco-Sound provides locomotive chuffing or roar as well as digital bells and whistles or horns. In addition, most RailKing Ready-To-Run sets now feature remote control, through our new RailKing Wireless Infrared Remote Control (also sold separately). With all the great new technology M.T.H. offers this year, model railroading has never been better!

PREMIER

Armed with the quality and value of the M.T.H. product line, many of our customers have been spreading the word about the joys of M.T.H. model railroading to new and old railroad enthusiasts. This excitement stimulates the growth of our hobby, which is expanding with incredible speed. It also motivates us here at M.T.H. to increase our efforts to produce the types of products and technology model railroading enthusiasts want. To that end, we offer some items to help guide you on your model railroading journey through the world of M.T.H. Electric Trains. These include a 350+ page book with more than 1,900 color photographs covering the fascinating history of M.T.H. (we've been around longer than you think!) and an interactive RailWare CD ROM with both how-to videos and track-planning software.



Toll Free Dealer Locator Number
1-888-640-3700
 Visit our Website www.mth-railking.com

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Bring Your Layout Alive

PROTO-SOUND 2.0

The Operating System for the New Millennium

In the year 2000 and beyond, virtually every M.T.H. locomotive or Ready-To-Run™ train set can be ordered with model railroading's most revolutionary digital control system: Proto-Sound® 2.0 featuring the Digital Command System (DCS).

Taking digital sound and train control systems to new heights, Proto-Sound 2.0 is a state-of-the-art digital sound and train control system that must be heard and seen to be believed. Its quality and features, designed by M.T.H.'s own research and development team, are unmatched by any other model railroading manufacturer. Operation starts right out of the box, with no additional equipment or wiring to your layout needed for basic conventional operation. Engines equipped with Proto-Sound 2.0 are perfectly compatible with engines not so equipped. You simply hook up any compatible transformer and begin experiencing the digital world of model railroading in ways unmatched and previously unimagined.

Even operators who prefer to run in conventional rather than command mode receive the benefits of Proto-Sound 2.0's improved sound quality and many all-new sounds. Finally, and most importantly for prototypical operations, every Proto-Sound 2.0-equipped locomotive comes with Proto-Speed Control (see the sidebar), a sophisticated monitoring system that provides constant speed control of your locomotive or consist, whether you are operating in Conventional or Digital Command Modes.

For command mode operation, you must connect the transformer to the Track Interface Unit (TIU) and the TIU to the track. The easy-to-use connections make this hook-up a snap. The DCS remote handheld sends commands through the TIU to the track, communicating with every locomotive on the track and, when the Accessory Interface Unit is also connected, with every track switch and accessory as well. A simple hook-up and single handheld remote unit make for easy use of this amazing digital command system.



The Sound System

Proto-Sound 2.0 is a digital sound system utilizing authentic railroad sounds. Steam engines feature steam chuffing, squeaking brakes, whistles and bells, while diesel locomotives rumble with diesel roar, throaty horns and chiming bells. Proto-Sound 2.0 utilizes a much higher digital sampling rate than earlier Proto-Sound versions. In fact, Proto-Sound 2.0 has a greater dynamic range than any of our competitors. In plain English, this means higher highs and lower lows for an unmatched model railroading experience.

Proto-Sound 2.0 features a bevy of new sound features that will transform your operating experiences to a far higher level of realism than you ever thought possible. Every Proto-Sound 2.0-equipped locomotive features improved and all-new Proto-Effects™ including:

- New and Improved Cab Chatter With Dozens of Different Voice Accents
- Extended Locomotive Start-up and Shut Down
- All-New Passenger Station Sounds or Freight Yard Sounds
- Squeaking Brakes and Coupler Release Sounds.
- Coupler Slack Sounds
- Wheel Clickety-Clack Sounds
- Train Wreck Sounds
- Dozens of randomly-created voice accents

Proto-Sound 2.0 also comes equipped with three exciting new sound effects: Proto-Doppler, Proto-Dispatch and Proto-Cast, each of which is explained in the sidebars on the following pages.

In addition, Proto-Sound 2.0-equipped locomotives feature a redesigned Proto-Coupler system that can be controlled with one simple button push as well as a redesigned ProtoSmoke system that allows user control over smoke output.



The Digital Command System



The Digital Command System (DCS) found in Proto-Sound 2.0 is a digital control system that allows operators to command multiple engines, tracks, switches, and accessories at one time with a single remote. When in Digital Command System Mode, a constant voltage level is applied to a layout or track block. You will be able to individually control each DCS engine or any accessory with the touch of a button on the DCS Remote Controller.

The separately sold Digital Command System Remote features a four line LCD screen and 32 push buttons for control over basic locomotive functions, including whistle or horn activation, bell, speed control, direction control and coupler operation. Scroll through its easy-to-use menus, which allow quick and easy access to the multitude of exciting new features in Proto-Sound 2.0. DCS Remote Control will immediately recognize up to 50 different engines when first powered up on your layout.* Once an engine is recognized, select your favorite operating settings, including volume levels, assignment of locomotive addresses and names, lighting, smoke output, and dozens more with the touch of a few buttons.

M.T.H.'s Digital Command System remembers your commands and can record them for playback later. Create a demo of your consist's operation and play it back with the touch of a button. Every locomotive operation, accessory operation or switch action will be remembered and played back. In fact, every minute of operation on your DCS-equipped locomotive is stored in an electronic odometer. This allows the owner to have a complete record of the actual scale miles the train has traveled. For collectors it's a great way to confirm the use of an engine.

Use the Digital Command System to control switches and track-side accessories (up to 250 of each, for a total of 500). With a Digital Command System Track Interface Unit (TIU) and Accessory Interface Unit (AIU), any track switch or accessory can be interfaced with the system. This allows operators to maintain complete control over their layout with the touch of a button on the DCS Remote. Best of all, no complicated wiring is required. Simply wire up a switch or accessory to the Digital Command System AIU just as you would to a button or track activation device.

The Digital Command System brings full compatibility to the model railroading community. Unlike O Gauge railroading's other 3-Rail command system, Lionel's® Trainmaster® (TMCC), the Proto-Sound 2.0 Digital Command System can control both Proto-Sound 2.0 equipped locomotives and Trainmaster® equipped locomotives in Command Mode without modification.** One DCS Remote Controller can operate DCS engines and Trainmaster® (TMCC) engines at the same time. At last, the limitations of competing command control systems are eliminated. All you need is the Proto-Sound 2.0 Digital Command System, specially engineered to provide a level of compatibility previously unseen in O Gauge!

*When equipped with sufficient TIUs. Each TIU will recognize and allow remote command of up to 10 locomotives. Each DCS remote will control up to 5 TIUs.

**The operator must supply his or her own Lionel® Command Base.



DCS Track Interface Unit (TIU)
Item No. 50-1003
\$99.95

DCS Accessory Interface (AIU)
Item No. 50-1004
\$79.95

GO TO www.protosound2.com



Proto-Speed Control™ is a revolutionary feature that uses microprocessor monitoring of your engine's motor revolutions, continuously making adjustments to the engine's speed to maintain locomotive speed, much as a real engineer does when traveling over variable terrain. When active, a Proto-Sound 2.0-equipped locomotive will experience only slight changes in speed when traversing grades and curves. Couple up a long consist for an engine previously operating by itself at 10 scale mph and watch as that engine continues to run at 10 scale mph.* In fact, the system is so sophisticated it allows engines to travel at speeds of 3 scale miles per hour or less! More importantly, the system can be overridden when double-heading with non-Proto-Sound- or earlier Proto-Sound-equipped locomotives. When Proto-Speed Control is disabled, your Proto-Sound 2.0-equipped locomotive will operate in the same manner as any other previously designed M.T.H. steam or diesel locomotive.



Proto-Doppler™ puts the **WOOOOOSH** in sound. Originally discovered by the Austrian mathematician and physicist Christian Doppler (1803-53), the Doppler Effect represents the change in pitch and volume that results from a shift in the frequency of the sound waves as evidenced by the sound of an approaching object. For example, as an ambulance approaches, the sound waves from its siren are compressed towards the observer. The intervals between waves diminish, which translates into an increase in frequency or pitch. As the ambulance recedes, the sound waves are stretched relative to the observer, causing the siren's pitch to decrease. By the change in pitch of the siren, you can determine if the ambulance is coming nearer or speeding away. In model railroading, the Doppler Effect has long been considered the ultimate goal of sound system development. Now, thanks to Proto-Sound 2.0, this effect can be reproduced in a locomotive. Imagine getting close to the track, watching and listening as a train whooshes past. You'll hear the oncoming sound followed by the receding fade as the train passes by just like you would if you were standing at trackside.



Proto-Dispatch™ brings Proto-Sound's cab chatter one step nearer reality. Now, instead of listening to the pre-recorded Cab Chatter messages that come standard in every Proto-Sound 2.0-equipped locomotive, you can actually interact with your train by broadcasting your own voice through the locomotive's speaker. A built-in microphone has been incorporated into the Proto-Sound 2.0 DCS Remote Control. Simply press a button and speak into the mike to create your own personalized Cab Chatter messages. Operators who use a Loco-Sound engine with an IR Remote Lock-On also gain this feature, though they will have to provide their own microphone. It's great fun and an easy way to get the whole family involved in your railroad operations.



Proto-Cast™ is perhaps the most exciting new addition to the Proto-Sound system. By using the TIU and most external audio sources, like a tape deck or CD player, you can now broadcast your favorite songs or stories through your locomotive's speaker. Imagine using Proto-Cast to play your favorite railroad songs through your train or "broadcasting" a train story from tape, like "The Little Engine That Could," while your train runs around the layout. Better yet, play your own favorite prototype recordings as you run your trains. Like Proto-Dispatch, this feature is available to operators who use Loco-Sound and an IR Remote Lock-On. It's easy to use and makes for great entertainment on your layout.

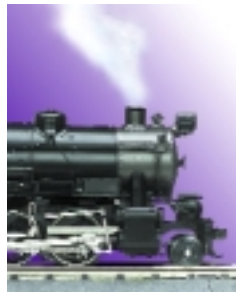
*This is true with the understanding that all loads are within the power supply capacity.

PROTO-SOUND 2.0

THE OPERATING SYSTEM FOR THE NEW MILLENNIUM



LIGHT SMOKE



MEDIUM SMOKE



HEAVY SMOKE

Note: Proto-Sound 2.0 will not operate on 50hrz power

How Proto-Sound 2.0 Forced M.T.H. To Rethink M.T.H. Locomotive Design:

With the advent of the latest version of Proto-Sound, M.T.H. had to take a long hard look at our locomotive product line designs. Because of the revolutionary changes Proto-Sound 2.0 provides model railroad operators, many existing features in M.T.H. locomotives had to be redesigned. For example, Proto-Sound 2.0's ability to control various functions of an M.T.H. engine forced those systems to be compatible with the new sound and train control system. Lighting previously controlled by stand-alone circuit boards is now controlled by the Proto-Sound 2.0 system. Redesigned smoke units now have their output controlled by the system, and a new lower-voltage Proto-Coupler system forced the redesign of the old Proto-Coupler.

Each of these improvements required either redesign or changes to their older counterparts in order to operate in locomotives equipped with Proto-Sound 2.0. Even the chassis have been replaced or redesigned to allow for the new electronic components. The end result: not only do today's model railroaders have a state-of-the-art sound and train control system, they actually have redesigned locomotives. Fortunately, these new designs and components allow new M.T.H. Proto-Sound 2.0-equipped locomotives to remain completely compatible with our past Proto-Sound-equipped engines. This means you can run a new Proto-Sound 2.0 engine with an older Proto-Sound engine without incurring any operational problems. What it doesn't allow, at least today, is the ability to bring those older engines up to today's Proto-Sound 2.0 standards.

DCS Remote Control System
Item No. 50-1001
\$199.95

DCS Remote Control
Item No. 50-1002
\$129.95

Proto-Sound 2.0 Digital Command System vs. Conventional Operation

The terms sound confusing and can overwhelm the inexperienced train operator, but the concepts are really quite simple. "Command-Ready" components, whether they be the Digital Command System or another manufacturer's system, are simply locomotives or accessories that can interface with the proprietary system they were designed for. When in "Command Mode", an operator has configured his or her layout for an operating environment that allows every component within that layout to be communicated with directly and independently from a common communication source (usually a remote control). This is usually accomplished by completing the procedures to enter command mode and then turning up the transformer controlling the desired track block (or entire layout) to full voltage. The accessories and locomotives operating in these blocks are now configured to ignore the track voltage and respond instead to commands from the communication source to activate various features (direction, speed, operation of accessory, etc.). Because each locomotive or accessory is responding to signals from the communication source independently, multiple operations can occur at the same time. Thus two or more engines can function on the same track (at different speeds) even though the track voltage is the same and is controlled by the same transformer.

Conventional operation is just the opposite. Every accessory or locomotive on a given track block will respond at the same time to the transformer voltage being applied to the track block. Individual control over various actions of each locomotive or accessory is prohibited. However, every engine or accessory can operate with other manufacturer's accessories or locomotives when in Conventional Mode, regardless of whether these items are outfitted to be Command Ready. Therefore, whenever you are operating in Proto-Sound 2.0 Conventional Mode you are guaranteed that every other manufacturer's products, including all earlier versions of Proto-Sound, will function with your Proto-Sound 2.0 equipped locomotive.

Operating Proto-Sound 2.0 locomotives is simple. Just put your engine on the track, right out of the box. As soon as you power-up your transformer, you will hear the authentic sounds of your diesel, steam, or electric engine awaken as it awaits your command to start moving. Your transformer's throttle and its whistle button activate all the conventional Proto-Sound 2.0 features listed. There is no need to purchase a whole new control system with dozens of buttons and keystrokes to memorize; Proto-Sound 2.0 works with almost any AC transformer.

Of course, walk-around freedom and the revolutionary command mode features are also available for those interested in purchasing the Proto-Sound 2.0 DCS Remote Control System. Once the TIU is connected to the transformer and track, you can use the DCS remote handheld to operate your locomotives in command mode. Just like conventional mode, they will be ready to run right out of the box. In fact, Proto-Sound 2.0's DCS Remote will control any Lionel® locomotive equipped with Trainmaster®, even when running in Command Mode. Operate both Lionel® Trainmaster® equipped engines and Proto-Sound 2.0 DCS equipped engines at the same time. It's one solution for multiple engines. To operate Digital Command System features, simply enter Command Mode and begin using the Digital Command System Remote Control to activate your locomotive and accessories.

If you wish to operate in conventional mode, you can still use your Digital Command System Remote Control or any remote control system, including the Z-4000 Remote. The only features you won't be able to access in conventional mode are Digital Command System features.



Proto-Sound 2.0 - Digital Command System (DCS) Features -

Requires Digital Command System Remote Control, Track Interface Unit (TIU) and (Optional) Accessory Interface Unit (AIU)

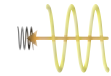


Now you can set the amount of smoke your engines output.



All Conventional Features Plus Features Listed Below

- Independent Locomotive Control - Operates Up To 50 Different Locomotive On The Same Track At The Same Time. Assign Locomotive IDs, Turn Engines ON or OFF or Run Different Engines At Different Speeds On The Same Track
- Enhanced Proto-Speed Control - Operate Locomotives As Slow As 1 Scale Mile Per Hour And Maintain Speed Up And Down Grades
- Enhanced ProtoSmoke Operation - Variably Control Smoke Output
- Enhanced Constant Voltage Lighting Control - Control Locomotive Lights Independently, Turn On or Off or Flash Ditch Lights, Cab Interior Lights, MARS Lights, Beacon Lights or Headlights
- Remote Control Of Layout Accessories - Requires No Modification To Accessories. Simply Wire Up Any Manufacturer's Accessory To An Accessory Interface Unit For Remote Control Via The DCS Remote (Requires AIU)
- Remote Control Over Track Blocks And Switches - Requires No Modification To Track or Switches. Simply Wire Track Blocks or Switches To A Track Interface Unit For Remote Control Via The DCS Remote (Requires AIU)
- Customize Proto-Sound 2.0 DCS Locomotives With Downloadable Sounds - Change Bells, Whistles or Proto-Effects For A Unique, Personalized Locomotive. Change Your Passenger Station Proto-Effect To A Freight Yard Proto-Effect.



- Proto-Cast - Play Your Favorite Tapes or CDs Through Your Train During Operation. You Can Even Play Bedtime Stories to Your Children
- Proto-Doppler Sound Effects - Easy To Use Feature That Simulates The Growing And Fading Sounds Of A Locomotive As It Approaches And Then Passes By
- Proto-Dispatch - Be Your Own Dispatcher. Broadcast Your Voice, In Real Time, Through Your Train's Speaker While It Is Running
- Extended Locomotive Start Up And Shutdown Effects
- All New Proto-Effects - Select And Play Coupler Slack Sounds, Wheel Clickety Clack Sounds, Train Wreck Sounds and Many More
- Independent Volume Control Of Bell, Horn or Whistle, Engine Sounds and Proto-Effects
- Global Volume Control Of All Active Proto-Sound 2.0 Equipped Engines
- Global Or Individual One-Touch Mute - Mute All Proto-Sound 2.0 Sounds With A Touch Of A Button. -Global Or Individual One-Touch On Or Off Control - Turn On or Off Lights. Choose An Individual Locomotive Or All Proto-Sound 2.0 Equipped Locomotives To Be Affected
- Diagnostic Memory Features - Proto-Sound 2.0s Digital Command System Provides Sophisticated Monitoring Information Of Engine Statistics Including Locomotive Model Type, Model Name, Scale Miles Traveled And All Current Proto-Sound 2.0 Settings. It Is A Perfect Way To Authenticate An Engine's History And Manage Its Maintenance

Proto-Sound 2.0 - Conventional Operation Features - Accessible Through Any Compatible Transformer

- Authentic Bell & Horn or Whistle Sound Effects
- Authentic Locomotive Chuffing or Diesel Engine Sound Effects
- Authentic Diesel Locomotive Start Up and Shutdown Effects
- Proto-Coupler Remote Operation
- Conventional Mode Proto-Effects Including Cab Chatter, Passenger Station and Freight Yard Sounds
- Proto-Coupler Remote Operation
- Proto-Speed Control Monitoring - A Cruise Control Type System That Maintains A Locomotive or Consists Speed During Grade Changes

- Proto-Speed Control Disable
- Model Railroading's Highest Dynamic Sound Range - For Higher Highs And Lower Lows
- Built-In, Self-Recharging Battery Backup System
- Squeaking Brake Sounds
- Maintenance Sound Effects
- Constant Voltage Lighting
- ProtoSmoke Operation

Control virtually everything on your layout from locomotives to accessories to switches. It's as easy as a touch of a button.

CONVENTIONAL & DIGITAL SYSTEMS

GO TO www.protosound2.com

GO TO www.protosound2.com

CHOOSE YOUR POWER & REMOTE CONTROL OPTIONS

DCS Remote Control System

The Digital Command System (DCS) Remote Control provides the operator with more control and freedom than any other remote control unit. The DCS Remote lets you individually control each DCS-ready locomotive, switch, and accessory with the touch of a button on a single handheld unit from as much as fifty feet away. Best of all, the DCS Remote Control is compatible with other command control systems, like Lionel's® Trainmaster® system. Now, all command control operators can use one DCS remote from MTH Electric Trains to control their Lionel® Trainmaster® equipped locomotives with their Proto-Sound 2.0 DCS equipped engines - all at the same time.

Each Proto-Sound 2.0 DCS Remote Control features state-of-the-art functionality that gives you unprecedented control over your model railroad. The DCS Remote interacts with the user in two different modes, each dependent on the types of engines you are operating, the types of transformers you are using, and whether you are operating in Digital Command or Conventional Modes.

The DCS Remote Control System includes the two components required for full command mode operation: the DCS remote handheld and the Track Interface Unit (TIU). The DCS remote handheld, TIU and optional Accessory Interface Unit (AIU) are also available as separate sale items.



DCS Remote Control System
(1) Remote Handheld
(1) Track Interface Unit
 Item No. 50-1001
 \$199.95

DCS Remote Control
 Item No. 50-1002
 \$129.95

DCS Track Interface Unit (TIU)
 Item No. 50-1003
 \$99.95

DCS Accessory Interface (AIU)
 Item No. 50-1004
 \$79.95

DCS REMOTE FEATURES

Conventional Mode Locomotive Operation Features

- Bell and Horn/Whistle Control-Individual buttons activate locomotive bell and horn or whistle sounds.
- Track Voltage Control-Establishes the desired track voltage setting via a thumbwheel control
- Conventional Mode Proto-Speed Control-Maintains constant locomotive speed without operator intervention
- Emergency Stop-Single button push deactivates all layout operation
- Direction Control-Interrupts locomotive direction
- DCS Remote Control over Z4000™ Transformer Programming Features
- Conventional Mode Proto-Effects™ Operation-Activates an engine's pre-programmed conventional mode Proto-Effects™, including passenger station announcements (PFA) and freight yard sounds (FYS)
- Proto-Coupler® Operation

Digital Command Mode Locomotive Operation Features

- **DCS Proto-Speed Control**-Establishes desired locomotive speed in scale miles per hour increments via a thumbwheel control
- **ProtoSmoke® Variable Output Control**-Controls How Much Smoke Each Engine outputs
- **Locomotive Lighting Control**-Independently controls locomotive headlights, marker lights, ditch lights, and cab interior lights
- **Automatic Locomotive Reset**-Single Button Push Resets Locomotive to Factory Defaults
- **Emergency Stop**-Single button push deactivates all layout operation
- **One Touch Global Mute/UnMute**-Single button mutes or unmutes all DCS-controlled locomotives' user-defined actions, including sound, lights, and smoke
- **One Touch Proto-Coupler® Operation**-Single button activates forward or rear coupler
- **Adjustable Master Volume Control**-Increases or decreases overall locomotive volume
- Global Locomotive Speed Control-Single button globally controls all DCS locomotive speeds
- **Proto-Dispatch Operation**-Public Address-like feature allows users to speak through locomotive speaker during locomotive operation
- **Proto-Doppler Sound Operation**-single button activates Doppler Effect
- **Command Mode Proto-Effects™ Operation**-Single button activates 35 different sound and operational Proto-Effects™ features.
- **Independent Volume Control**
- **Store up to 50 Different DCS-Equipped Locomotives at One Time**
- **Engine, Bell, Horn & Whistle Volume Adjustment**-User can set and query settings
- **Chuff Rate Selection Set Up**-User can set Chuff Rates from 1 to 4 chuffs per wheel revolution
- **Proto-Effects™ Set Up**-User can select individual Proto-Effects™ operations to be active or inactive, including cab chatter, train wreck sounds, coupler sounds, and wheel clickety-clack sounds
- **Proto-Doppler Sound Effects Set Up**-Users can configure locomotive for Doppler Operation, including setting distance points for Doppler start, repeat, and stop modes
- **Proto-Speed Control Set Up**-Users can set maximum locomotive speed (acts as a governor for locomotives' top speed) and acceleration/deceleration rates
- **Direction Control Set Up**-User can set initial individual start-up direction (start in forward or reverse) for double-heading operations
- **ProtoSmoke Output Set Up**-User can set smoke unit output via three settings (minimum, medium, or maximum output) or control Proto-Puff (steam locomotives only)
- **Locomotive Lighting Set-up**-User can determine lighting sequence and operation
- **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

M.T.H. now offers three excellent options for model railroaders looking to break away from a stand-alone transformer: the RailKing Infrared Remote Control System, the Z-4000 Remote Control System and the DCS Remote Control System required for use with our revolutionary new Digital Command System. If you are looking for the easiest and most advanced remote control to operate your locomotives equipped with the original version of Proto-Sound, the Z-4000 Remote is a great choice. But if you want to take full advantage of all the amazing features provided by the ground-breaking new Proto-Sound 2.0 and Digital Command System, you'll need the DCS Remote Control.

GO TO www.protosound2.com

Z-4000® Remote Control System

If you want to operate your model railroad in a new yet familiar way with the freedom of a wireless hand-held controller, M.T.H. Electric Trains has the perfect solution: the Z-4000 Remote Control System.

This system interfaces quickly and easily with up to three powerful 400 Watt Z-4000 Transformers to bring simple, portable control to your model railroad empire in ways not found in our competitors' remote control systems. Simple design with easy-to-use functionality make the Z-4000 Remote Control System a great remote control system for model railroaders looking to break away from a stand-alone transformer.

Equipped with features that simplify and enhance operating your trains, the Z-4000 Remote Control System is similar enough to the Z-4000 transformer to have you up and running your trains in minutes. Get down to track level, follow your trains around, or operate from the comfort of your easy chair. It's all possible thanks to the fun and excitement of the Z-4000 Remote Control.



Z-4000 Remote Control System
(1) Remote Handheld
(1) Remote Receiver
 Item No. 40-4001
 \$79.95

Z-4000 Remote Receiver
 Item No. 40-4002
 \$39.95

GO TO www.protosound2.com

Z-4000 REMOTE FEATURES

LCD Display - The handheld LCD Display informs the user of the commanded track voltage during normal train operation and simplifies Proto-Sound® feature selection during programming.

Controls Two Tracks - Using the Track Selector Switch, operators can switch between two different tracks on the fly. The Z-4000 Remote Control Handheld will remember each track's settings and display them when the track is selected.

Rotary Throttle Dial - Simply roll the thumb-wheel style throttle on the Remote Control Handheld upward or downward to control the speed of your trains. The rotary style throttle enables switching between active tracks while retaining the previous throttle setting. It also doubles as a Program Mode selector by allowing the user to scroll through Proto-Sound® features.

Bell Button - Activates the bell sound in any manufacturer's sound-equipped engines. The button is also used to select a feature in the Program Mode when programming any Proto-Sound®-equipped locomotives.

Whistle/Horn Button - Activates the whistle or horn sound in any manufacturer's sound-equipped engines. The button is also used to activate the Proto-Coupler® found on any Proto-Sound®-equipped locomotives.

Program Button - Enables the user to toggle in and out of the Program Mode when programming any Proto-Sound®-equipped locomotives.

Direction Button - Interrupts the track power to allow any manufacturer's engine to change direction.

Boost/Brake Button - Self-centering rocker switch that allows users to accelerate or decelerate any manufacturer's locomotive during operation, independent of the throttle setting. Releasing the button will return the throttle voltage to the previously selected setting.

Emergency Stop Button - Immediately sets the commanded track voltage of both tracks to zero.

Simultaneous Operation With Z-4000 Transformer - Allows the user to control the track with either the Z-4000 stationary controls, the Z-4000 Remote Control Handheld's controls or both. The system automatically switches between the Z-4000 Remote Control Handheld and the Z-4000 Control Panel whenever a change in the controls is made.

Multiple Remote Control Operation - The Z-4000 Remote Control System allows for up to 3 individual Z-4000 Remote Control Handhelds to be used simultaneously with one Z-4000 Remote Control Receiver. Additionally, one Remote Control Handheld can control 3 Remote Control Receivers when attached to 3 Z-4000 transformers. For a total of 6 tracks.

Power Source Management - Built-in Sleep Mode allows Z-4000 Remote Control to go inactive when not in use, to preserve battery life.

Operates All Manufacturers' AC Powered Locomotives - Provides full conventional control of all AC 3-Rail trains when used in conjunction with a Z-4000 transformer, giving the operator the added freedom that can only be provided by a wireless hand-held remote control.



and



Z-4000® Transformer
 Item No. 40-4000
 \$399.95

Z-4000® Transformer

Operators of any O, S, or Standard Gauge locomotive, regardless of manufacturer, will appreciate the power and control features found in the 400-Watt Z-4000® transformer - the only U.L. Approved 400-Watt RMS transformer available today. The transformer's control panel has a voltage display, amperage display, and horn, bell, direction, and programming buttons for two track outputs. Two additional fixed voltage outputs are also available, making the Z-4000 the perfect choice for operating locomotives and accessories.

Programming any Proto-Sound®-equipped locomotives simply requires the operator to scroll through the features on the LED display by using the whistle and direction buttons. Macro features have also been included in the Z-4000 transformer giving the Proto-Sound owner the opportunity to use popular Proto-Sound features, like directional lock-out, with just a few button clicks.

Perhaps the most exciting feature of the Z-4000 is its microprocessor-controlled operating system. There is actually a powerful computerized brain that makes the Z-4000 highly upgradeable. In fact, the Z-4000 has been designed so that add-ons like a walk-around throttle system will be easy and quick to install and use. This product has earned the UL listing mark.

Z-4000 TRANSFORMER FEATURES

- UL Listed To US and Canadian Safety Standards
- Pure Sine Wave Power Signal
- (2) 21v Variable Track Outputs
- (1) 14v Fixed-Voltage Output
- (1) 10v Fixed-Voltage Output
- Internal Cooling Fan
- On/Off Power Switch
- Expansion Port for Z-4000 Remote Control System
- Compatible As Power Source For All O Gauge AC-Powered Locomotives
- (2) Voltage LED Displays
- (2) Amperage LED Displays
- Resettable Circuit Breakers for Each Output
- Large Red LED Overload Indicator
- Large Green LED Power On Indicator
- Measures: 8 3/4" High, 11 1/8" Front to Back, 14 3/4" Wide

M.T.H. ELECTRIC TRAINS
Model Railroader's Technology Leader

Premier® Line

M.T.H. Premier Line trains are the gold standard in O Gauge model railroading. These models feature scale proportions, realistic detail, and solid construction that provides smooth, powerful performance. No other O Gauge manufacturer approaches this level of accuracy and overall quality. One of the Premier locomotives' and cars' most impressive features is the authentic detail in the 1:48 scale products. Each item features a precisely designed body and a crisp, detailed paint scheme modeled closely on the original.

Premier Steam locomotives have all the features model railroad operators need to create dramatic and realistic layouts. The M.T.H. Premier Steam Locomotives display the highest quality craftsmanship, which is evident in their handsome detail. Each of the Premier Steam Locomotives includes die-cast boiler and tender construction, flywheel-equipped power from Pittman® motors, and billowing smoke from the new ProtoSmoke® system. And it is impossible to overlook the commanding power demonstrated by all Premier steam locomotives. You can now create an even stronger illusion of reality than before, thanks to the revolutionary new Proto-Sound® 2.0 With Digital Command System (DCS), which gives you more power and more options than ever before. You'll be able to customize the operation of your layout in ways that have not been possible in O Gauge railroading before now.

Our Premier Diesel Engines are in a class by themselves. Each engine demonstrates the outstanding workmanship that lets every owner know he or she owns the best O Scale models available. Diesel Engines in the M.T.H. Premier Line feature two flywheel-equipped motors and the impressive new Proto-Sound® 2.0 system, which includes the new, easy-to-use remote uncoupling Proto-Coupler® system. Many of the Diesels also feature the new ProtoSmoke® smoke system, which produces such remarkably realistic smoke you would swear you were out on the actual rails experiencing the real thing! Included among our other distinctive features are metal grill details, spinning roof fans, operating marker lights, and illuminated number boards.

Model railroad operators applaud our Premier Line Rolling Stock's enhanced features. For example, many of our Premier Line Caboosees now contain additional detail like attractive and extensive interior decor and overhead lighting. At M.T.H. our mission is to offer the best possible quality to all railroad fans. That is why we constantly strive to improve and enhance our existing products and at the same time create ingenious new ones.

As you explore the Premier Section of our Year 2000 Volume 3 Catalog, let your imagination and enthusiasm guide you as you discover a level of O Gauge excellence and excitement that can only be found in M.T.H. trains!





PREMIER STEAMER



NEW



Add a New York Central 5-Car Passenger Set - See Page 41

New York Central
4-8-4 Niagara Steam Engine
Item No. 20-3047-1

\$999.95 20-3047-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Operates On O-72 Curves
 - Die-Cast Boiler and Tender Bodies
 - Die-Cast Metal Chassis
 - Authentic Paint Scheme
 - Metal Wheels and Axles
 - Constant Voltage Headlight
 - Die-Cast Truck Sides
 - Precision Pittman® Flywheel Equipped Motor
 - Remote Controlled Proto-Coupler®
 - Engineer and Fireman Figures
 - Operating Firebox Glow
 - Metal Handrails and Decorative Bell
 - Decorative Metal Whistle
 - Lighted Cab Interior
 - Operating ProtoSmoke® System
 - Operating Tender Back-up Light
 - Proto-Sound 2.0 With The Digital Command System
- Featuring:
- Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Passenger Station Proto-Effects™
 - Locomotive Measures: 31" x 2 1/2" x 3 3/4"

New York Central 4-8-4 Niagara Steam Engine

The Niagara was New York Central's water-level route version of the extremely popular 4-8-4 Northern steam engine. Because their Hudson and Mohawk engines were so successful, the NYC did not order its first Niagaras until the mid-forties, almost twenty years after the Northern Pacific took delivery of its first 4-8-4s. However, NYC could not deny the need for large, fast power, and in that respect the Niagaras certainly delivered. The large firebox supported by the 4-wheel trailing truck could support 40,000 pounds more boiler than a Mohawk-type



engine, and that meant higher sustained speeds. A main attraction of the Niagaras was their flexibility; they were well suited for both freight and heavy, fast passenger service. And they saw heavy service. No. 6024 averaged almost 700 miles per day, totalling 228,849 miles in eleven months between shoppings.

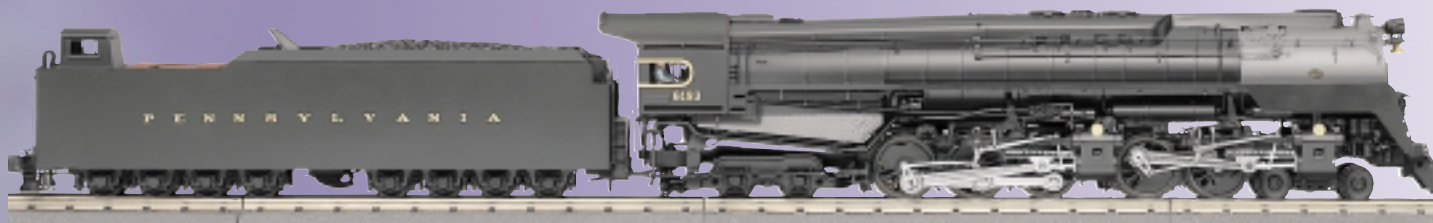
M.T.H. is pleased to add to our growing collection of Northern-class engines with the New York Central Niagara. The model boasts prototypical detailing, with the additional features listed.



PREMIER STEAMER



NEW



Pennsylvania
4-4-6-4 Q2 Steam Engine
Item No. 20-3048-1

\$1299.95 20-3048-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Die-Cast Boiler and Tender Bodies
- Die-Cast Metal Chassis
- Authentic Paint Scheme
- Metal Wheels and Axles
- Constant Voltage Headlight
- Die-Cast Truck Sides
- Precision Pittman® Flywheel Equipped Motor
- Remote Controlled Proto-Coupler®
- Engineer and Fireman Figures
- Operating Firebox Glow
- Metal Handrails and Decorative Bell
- Decorative Metal Whistle
- Lighted Cab Interior
- Operating ProtoSmoke® System
- Operating Tender Back-up Light
- Operates On O-72 Curves
- Operating Marker Lights
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Freight Yard Proto-Effects™
- Locomotive Measures: 32" x 2 3/4" x 4 1/8"

Pennsylvania 4-4-6-4 Q2 Steam Engine

In 1944 the Pennsylvania Railroad modified the design of the single Q1 steamer to create the 4-4-6-4 Q2 steam engine, the most successful Duplex the PRR ever ran. Developed for fast freight service, the Q2 proved the largest and most powerful 10-drivered engine ever built. During testing, no. 6175, the first of the 25 Q2s built for the Pennsylvania, reached a maximum horsepower of 7,987 at 57.4 mph. It generated 100,800 pounds of tractive force, 115,800 with booster. It's no wonder Pennsy quickly replaced their order of 25 2-10-4s with 25 Q2s. The Q2 engines had front and rear cylinders of different



sizes, so they could power different number of drivers, and drivers significantly smaller than the Q1 (69" instead of 77"). Unfortunately, just as the Pennsylvania's series of experiments with duplex steamers was about to pay off, diesels became inevitable. By late 1949, the Q2s had been among the first steamers retired and almost all of these coal- and water-guzzling engines were inactive.

M.T.H. proudly presents the most successful product of the Pennsylvania's flirtation with the duplex engine. Our Q2 is available with the equipment listed.



PREMIER DIESEL



NEW

Union Pacific
U50C Diesel Engine
Item No. 20-2252-1

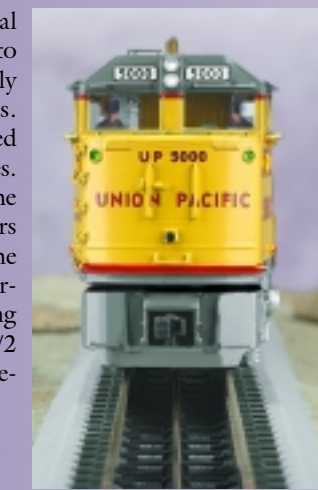
\$429.95 20-2252-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Directionally Controlled Headlights
- Intricately Detailed ABS Body
- Metal Wheels and Axles
- Die-Cast Truck Sides, Pilots and Fuel Tank
- (2) Remotely Controlled Proto-Couplers®
- Authentic Paint Scheme
- Metal Chassis
- Metal Handrails and Decorative Horn
- (2) Precision Flywheel Equipped Motors
- All Metal Wheels and Gears
- Lighted Cab Interior
- Illuminated Number Boards
- Lighted Marker Lights
- (2) Engineer Cab Figures
- Overhead Blinking Light
- Operating Smoke Unit
- Operates On O-42 Track
- Metal Body Side Grills
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Freight Yard Proto-Effects™
- Locomotive Measures: 19 5/8" x 2 1/2" x 4"

Union Pacific U50C Diesel Engine

The U50 and U50C were General Electric's atypically flat-faced solution to Union Pacific's longing for extremely high horsepower single locomotives. These twin-engined monsters produced 5000 hp using GE's FDL-series engines. The U50C differed significantly from the earlier U50 in several ways: the radiators and generators changed places, with the U50C's radiators at the center and generators at the ends, it measured 79 feet long (to the U50's incredible 83 feet 6 1/2 inches), and the U50C had two three-



axle, three motor trucks, as opposed to the earlier model's four four-axle trucks. UP bought 40 U50Cs between 1969 and 1971.

M.T.H. is sure this monster will look as impressive roaring down your tracks as it did on the original. We're pleased to present the U50C with a long list of features.

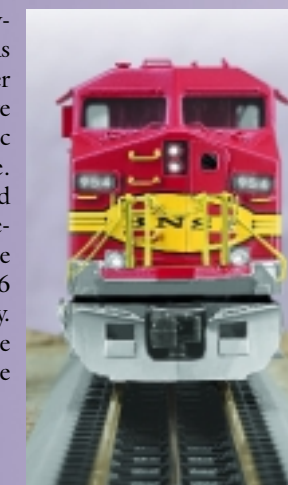


PREMIER DIESEL



AC6000 Diesel Engine

The AC6000 sprang from the horsepower wars of the late twentieth century. As manufacturers fought to best each other with single-unit engines boasting more and more horsepower, General Electric introduced the AC4400 convertible. These initial AC-class engines provided 4,400 horsepower, but they were especially designed to be converted to the 6,000 horsepower Deutz 7HDL16 engines as soon as the engines were ready. The first true AC6000 came about one year later, in December 1995, with some



changes to the body as well as the more powerful engine. The most noticeable change is that the air reservoirs were raised to allow for more fuel capacity. This rearrangement left a large step/platform on the side of the engine. About 150 AC6000s were sold by the end of 1999, and they are still in production.

M.T.H. is proud to present this monster of the Mainline in the colors of the Santa Fe railroad and CSX. This model comes complete with the list of features shown.

Santa Fe
AC6000 Diesel Engine
Item No. 20-2265-1

\$349.9520-2265-1 w/Proto-Sound® 2.0

CSX
AC6000 Diesel Engine
Item No. 20-2266-1

\$349.9520-2266-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Intricately Detailed ABS Body
- Directionally Controlled Headlights
- Die-Cast Truck Sides, Pilots and Fuel Tank
- (2) Remotely Controlled Proto-Couplers®
- Metal Chassis
- Metal Handrails and Decorative Horn
- (2) Precision Flywheel Equipped Motors
- All Metal Wheels and Gears
- Lighted Cab Interior
- Illuminated Number Boards
- (2) Engineer Cab Figures
- Operating Ditch Lights
- Operating Smoke Unit
- Operates On O-42 Track
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Freight Yard Proto-Effects™
- Locomotive Measures: 20" x 2 1/2" x 3 3/8"

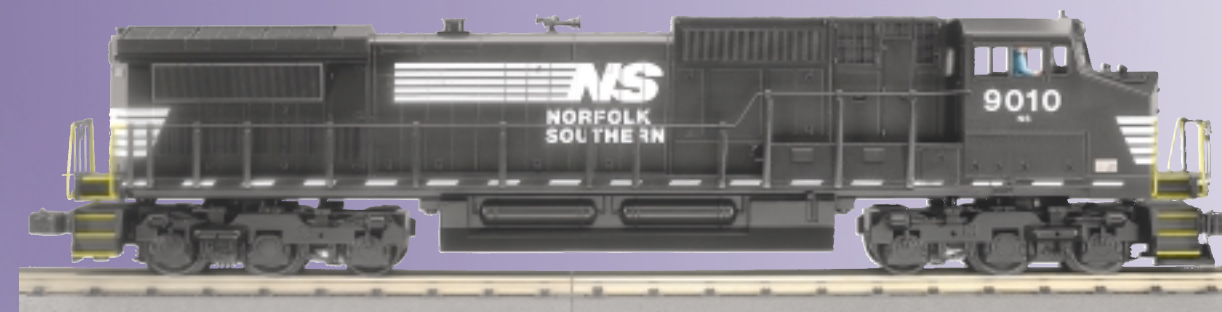


PREMIER DIESEL

Dash-9 Diesel Engine

Throughout history, engineers have tried to generate more horsepower with smaller, more compact engines. General Electric's Dash-9 is no exception. Using a turbo-charged 16 cylinder prime mover, the Dash-9, also known as the C44-9W, can reach 4,400 horsepower. The Dash-9 provided many mechanical and electrical improvements over the Dash-8 line, and it is, in fact, both the culmination of the GE "Dash" engines and the forebear of a new class of locomotives. Later locomotives in this family are called AC-class engines.

M.T.H. is pleased to help model railroaders represent the evolution of late twentieth-century motive power on your own layouts. You can purchase this important transitional engine in the markings of the Norfolk Southern, BNSE, CP Rail, and Union Pacific railroads. These handsome engines come with all the features on the opposite page.



Norfolk Southern, Dash-9 Diesel Engine
Item No. 20-2267-1

\$349.9520-2267-1 w/Proto-Sound® 2.0

BNSF, Dash-9 Diesel Engine
Item No. 20-2268-1

\$349.9520-2268-1 w/Proto-Sound® 2.0

CP Rail, Dash-9 Diesel Engine
Item No. 20-2269-1

\$349.9520-2269-1 w/Proto-Sound® 2.0

Union Pacific, Dash-9 Diesel Engine
Item No. 20-2270-1

\$349.9520-2270-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Directionally Controlled Headlights
- Metal Wheels and Axles
- Die-Cast Truck Sides, Pilots and Fuel Tank
- (2) Remotely Controlled Proto-Couplers®
- Authentic Paint Scheme
- Metal Chassis
- Metal Handrails and Decorative Horn
- (2) Precision Flywheel Equipped Motors
- All Metal Wheels and Gears
- Lighted Cab Interior
- Illuminated Number Boards
- (2) Engineer Cab Figures
- Operating Ditch Lights
- Operating Smoke Unit
- Operates On O-42 Track
- Intricately Detailed ABS Body
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Freight Yard Proto-Effects™
- Locomotive Measures: 19 1/4" x 2 1/2" x 3 3/8"



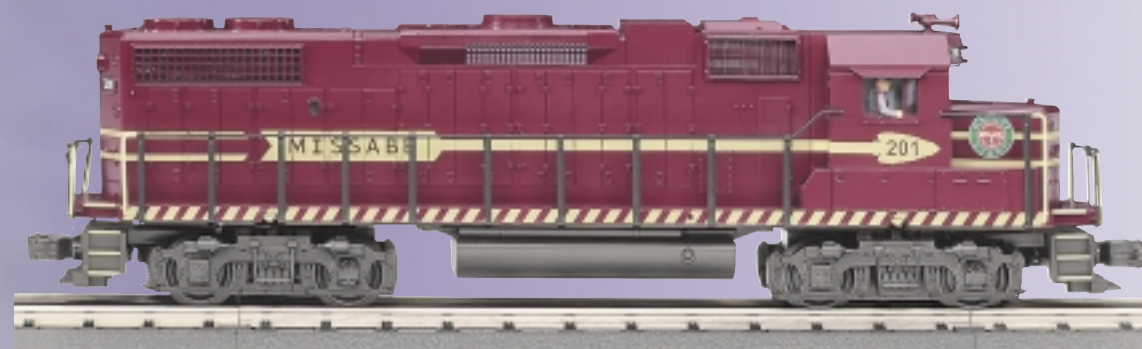
PREMIER DIESEL

GP38-2 Diesel Engine

In the late 1960s, General Motors EMD Division responded to repeated complaints about the dependability of the GP30 and GP35 with the GP38 "General Purpose" diesel locomotive. A descendant of the famous EMD F Series, the GP38-2 became just as much a staple on railroads in its time as the F units were in theirs.

While the GP38-2's prime mover provided less horsepower than its contemporaries, its excellent reputation made it one of the best selling Geeps ever. Almost every domestic railroad, big or small, has had its name painted on the side of a GP-38. Many of these locomotives are still in use today, in spite of the fact that the fleet is well past its twentieth anniversary.

The GP38-2 can now be a stalwart on your railroad just as it was and is on today's roads. Choose from four exciting paint schemes - Florida East Coast, DMIR, Santa Fe, and Delaware & Hudson - each of which is available with the special features listed.



Florida East Coast, GP38-2 Diesel Engine
Item No. 20-2253-1

\$329.9520-2253-1 w/Proto-Sound® 2.0

DMIR, GP38-2 Diesel Engine
Item No. 20-2254-1

\$329.9520-2254-1 w/Proto-Sound® 2.0

Santa Fe, GP38-2 Diesel Engine
Item No. 20-2255-1

\$329.9520-2255-1 w/Proto-Sound® 2.0

Delaware & Hudson, GP38-2 Diesel Engine
Item No. 20-2256-1

\$329.9520-2256-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Directionally Controlled Headlights
- Metal Wheels and Axles
- Die-Cast Truck Sides, Pilots and Fuel Tank
- (2) Remotely Controlled Proto-Couplers®
- Operates On O-31 Track
- Metal Chassis
- Metal Handrails and Decorative Horn
- (2) Precision Flywheel Equipped Motors
- All Metal Wheels and Gears
- Lighted Cab Interior
- Illuminated Number Boards
- Lighted Marker Lights
- (2) Engineer Cab Figures
- Spinning Roof Fans
- Metal Body Side Grills
- Intricately Detailed ABS Body
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Freight Yard Proto-Effects™
- Locomotive Measures: 15 3/8" x 2 3/4" x 3 7/8"



PREMIER DIESEL



NEW

Add a Baltimore & Ohio 5-Car Passenger Set - See Page 38



NEW

Add a City of San Francisco 5-Car Passenger Set - See Page 38



NEW

Add a Missouri Pacific 5-Car Passenger Set - See Page 40

E-6 ABA Diesel Engine

The General Motors E-units are the most successful passenger engines of the diesel era. The E-6 was introduced in 1939, and 118 of the A and B units were produced by the time World War II restrictions halted production of passenger diesels in 1942. The "E" designation came from the 1,800 hp packed by the first E-units, but by the time the E-6 came along, each twin-engine unit was able to muster 2,000 hp. Like the other E-units, the E-6 used two A1A trucks, with two powered axles and one center idler, to carry increased locomotive



weight and improve ride quality. These engines also boast the sleek streamlined look popularized as the U.S. emerged from the Great Depression, making them beautiful as well as efficient passenger haulers.

M.T.H. is proud to introduce the E-6 into our Premier line. We offer AB sets in the handsome markings of the B&O, Union Pacific's "City of San Francisco," and Missouri Pacific. We're sure these engines will prove as popular on your railroad as they were on the real rails.

Baltimore & Ohio, E-6 ABA Diesel Engine
Item No. 20-2258-1

\$649.95 20-2258-1 w/Proto-Sound® 2.0

City of San Francisco, E-6 ABA Diesel Engine
Item No. 20-2259-1

\$649.95 20-2259-1 w/Proto-Sound® 2.0

Missouri Pacific, E-6 ABA Diesel Engine
Item No. 20-2260-1

\$649.95 20-2260-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Directionally Controlled Headlights
- Intricately Detailed ABS Bodies
- Metal Wheels and Axles
- Die-Cast Truck Sides, Pilots and Fuel Tank
- (2) Remotely Controlled Proto-Couplers®
- Authentic Paint Scheme
- Operates On O-31 Track
- Metal Chassis
- Metal Handrails and Decorative Horn
- (2) Precision Flywheel Equipped Motors In Each A Unit
- All Metal Wheels and Gears
- Lighted Cab Interior
- Illuminated Number Boards
- Lighted Marker Lights
- (2) Engineer Cab Figures In Each A Unit
- (2) Operating Smoke Units
- Metal Body Side Grills
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Passenger Station Proto-Effects™
- Locomotive Measures: 55 1/2" x 2 1/2" x 3 5/8"



PREMIER DIESEL

NEW



Includes a Die-Cast Metal Propane Tank Car



Union Pacific Propane Turbine Locomotive Set

UP #57, the only propane turbine the railroad ever ran, was one of an order for ten 4500 hp turbines UP ordered from General Electric in 1951. The railroad was pleased with the performance of the turbines, which tested well in head-to-head competition with similar horsepower diesels. However, UP was concerned that the fuel used was too heavy and difficult to heat and handle. When #57 was delivered they decided to adapt it for an experiment with propane gas as a power source. The engine was equipped with a pressurized tank car for a tender and assigned a Los Angeles-Las Vegas run. The propane turbine made its first revenue run on May 31, 1953. Since



propane burns clean and leaves no carbon deposit residue, the engine's turbine blades wore well. The high cost of the safety precautions and operating procedures (to cut the high rate of fuel consumption, the railroad stopped and restarted the engines several times on each run) outweighed the engine's advantages, however, and the UP decided against adding any more propane turbines to the roster.

M.T.H. is happy to reproduce this unique engine and its tank car tender. It is sure to add interest to your layout and provoke conversation among railfans. It comes equipped with the features listed.

Union Pacific
Propane Turbine Locomotive Set
Item No. 20-2261-1

\$699.95 20-2261-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Directionally Controlled Headlights
- Metal Wheels and Axles
- Die-Cast Truck Sides, Pilots and Fuel Tank
- (2) Remotely Controlled Proto-Couplers®
- Authentic Paint Scheme
- Operates On O-72 Track
- Metal Chassis
- Metal Handrails and Decorative Horn
- (4) Precision Flywheel Equipped Motors
- All Metal Wheels and Gears
- Lighted Cab Interior
- Illuminated Number Boards
- Lighted Marker Lights
- (2) Engineer Cab Figures
- Intricately Detailed ABS Body
- Die-Cast Metal Tank Car
- Metal Body Side Grills
- Operating Smoke Unit
- Operating MARS Light
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Freight Yard Proto-Effects™
- Locomotive Set Measures: 33" x 2 1/2" x 4"



PREMIER SPECIALTY SET



Burlington
Pioneer Zephyr Diesel Passenger Set
Item No. 20-2250-1

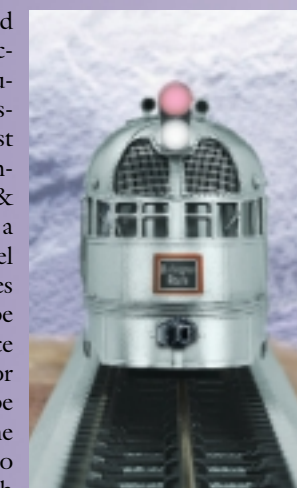
\$599.95 20-2250-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Directionally Controlled Headlights
- Intricately Detailed ABS Bodies
- Metal Wheels and Axles
- Die-Cast Truck Sides, Pilots and Fuel Tank
- Authentic Paint Scheme
- Operates On O-72 Track
- Metal Chassis
- Metal Handrails and Decorative Horn
- (2) Precision Flywheel Equipped Motors
- All Metal Wheels and Gears
- Lighted Car Interiors
- Illuminated Number Boards
- Lighted Marker Lights
- (2) Engineer Cab Figures
- Operating MARS Light
- Operating Smoke Unit
- Metal Body Side Grills
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Passenger Station Proto-Effects™
- Locomotive Set Measures: 62" x 2 3/8" x 3 1/2"

Burlington Pioneer Zephyr Scale Diesel Passenger Set

The Budd Company has long been held synonymous with passenger car construction. Yet Budd proved to be very revolutionary in the design of self-propelled passenger cars as well. One of their most unique designs came from a project commissioned by the Chicago Burlington & Quincy Railroad, who simply asked for a stainless steel train, powered by a diesel engine and capable of travelling 100 miles per hour. The consist needed to be equipped with a Railway Post Office compartment, contain space enough for 25 tons of baggage and express and be capable of seating 70 passengers. The CB&Q left it up to the Budd Company to determine how they would accomplish the task.



steel construction that borrowed on aircraft fuselage technology. By using a tubular shape, Budd was able to disperse the cars' weight over fewer trucks while creating a stronger design than traditional car bodies afforded. The final design was unique not only in appearance but in function as well. The low, sweeping design and rounded "shovel" nose made Zephyrs a popular attraction and frequent subject of railfan shutterbugs all over the country.

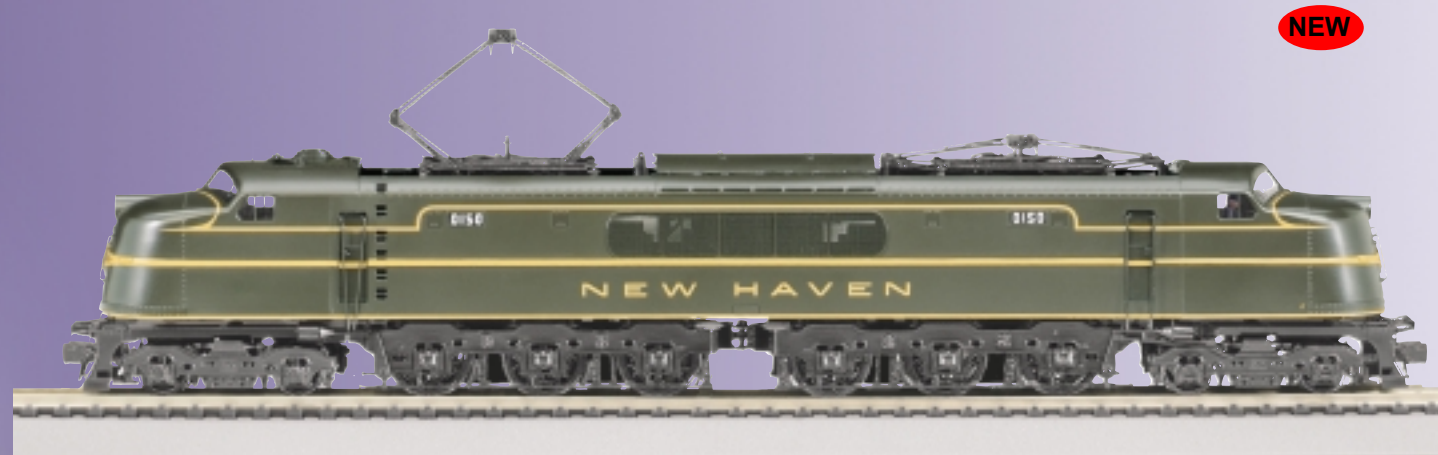
M.T.H. is proud to introduce the Pioneer Zephyr to our Premier lineup in O scale proportions. Its sleek look and smooth operating performance are sure to please

both the operator and collector. The Zephyr is available with the features shown.

The 3-unit articulated consist that Budd ultimately delivered employed the use of lightweight stainless



PREMIER ELECTRIC



Add a New Haven 5-Car Passenger Set - See Page 38

EF 3b Class Electric

The New Haven EF-3 Class locomotives were the most powerful locomotives in New England when they were in operation. Their maximum horsepower of 9,100 and continuous horsepower of 4,860 at 65 mph far exceeded the Pennsylvania GG-1. There were a total of ten EF-3 locomotives, five built by Baldwin-Westinghouse in 1942, and five more built by General Electric in 1943. It was the Baldwin-Westinghouse engines that were re-classed EF-3b in 1944, when they were equipped with steam generators to better suit them for passenger service. They continued to operate as dual service engines, like they were designed to do, even after this refitting.



Weighing almost half a million pounds and capable of pulling up to twenty 85-ton Pullman cars, these EF-3bs were too heavy for passenger service over the Park Avenue Viaduct leading into Grand Central Terminal, so all their service into New York City ran in and out of Penn Station. The EF-3bs' Penn Station passenger traffic and the Bay Ridge freight service ran over the celebrated Hell Gate Bridge on their way into and out of the city.

M.T.H. is proud to present this mighty engine in its post-1944 passenger service configuration. It comes with the long list of features shown.

New Haven
EF 3b Class Electric
Item No. 20-2257-1

\$599.9520-2257-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Directionally Controlled Headlights
- Metal Wheels and Axles
- Die-Cast Truck Sides, Pilots and Fuel Tank
- (2) Remotely Controlled Proto-Couplers®
- Authentic Paint Scheme
- Metal Chassis
- Metal Handrails and Decorative Horn
- (2) Precision Flywheel Equipped Motors
- All Metal Wheels and Gears
- Lighted Cab Interior
- Illuminated Number Boards
- Lighted Marker Lights
- (2) Engineer Cab Figures
- Operates On O-72 Track
- Intricately Detailed Die-Cast Body
- Metal Body Side Grills
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Passenger Station Proto-Effects™
- Locomotive Measures: 20 1/2" x 2 1/2" x 3 3/4"



PREMIER ELECTRIC

E-60 Electric

In the 1970s railroads decided they needed to upgrade their image and stop relying on the trusty but forty-year-old GG-1s to handle express passenger traffic in the New York-Washington corridor. The 27 E-60 electrics, delivered by General Electric in 1973, were designed to survive a change in the power supply and are capable of running on either 25 or 50 Hz. GE, which had not made a new electric passenger engine in years, modified a coal-hauling locomotive to mixed results. The E-60 was a reliable and smooth runner in most situations. But while the E-60 was re-gearred to operate at up to 120 mph, in reality it ran poorly above 85 mph, meaning that a few GG-1s survived the transition to handle high-speed traffic.

The E-60's appearance places it squarely in the seventies and adds authenticity to any layout of that era. M.T.H. is pleased to reproduce this unusual engine in Amtrak, NJ Transit, and Virginian paint, with the long list of features shown.



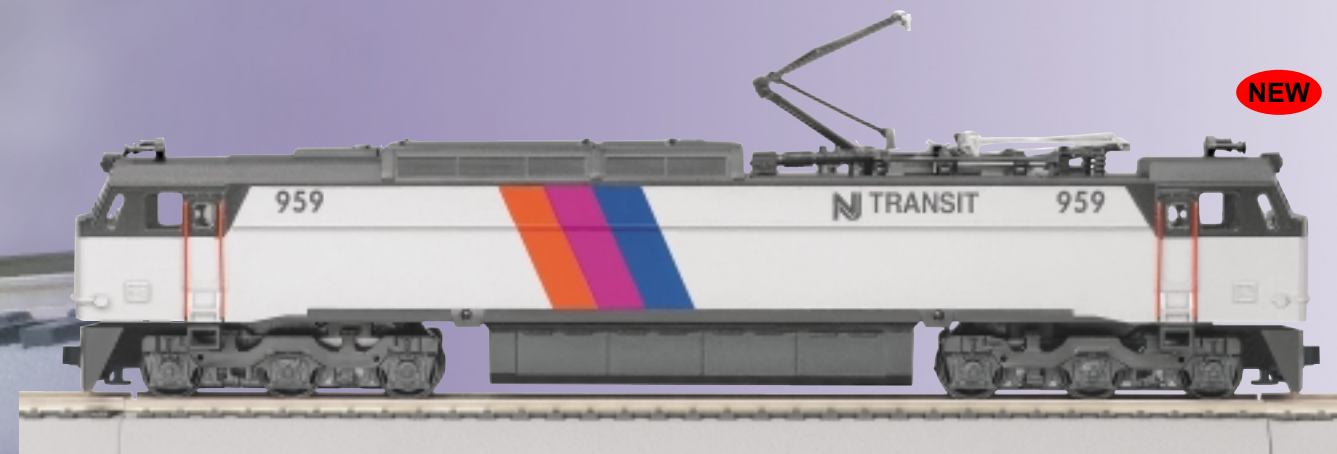
NEW

Add an Amtrak 4-Car Amfleet Passenger Set - See Page 43



NEW

Add a Virginian 5-Car Passenger Set - See Page 38



NEW

Add a New Jersey Transit 4-Car Amfleet Passenger Set - See Page 43

Amtrak, E-60 Electric
Item No. 20-2262-1

\$349.9520-2262-1 w/Proto-Sound® 2.0

Virginian, E-60 Electric
Item No. 20-2263-1

\$349.9520-2263-1 w/Proto-Sound® 2.0

New Jersey Transit, E-60 Electric
Item No. 20-2264-1

\$349.9520-2264-1 w/Proto-Sound® 2.0

FEATURES INCLUDE

- Directionally Controlled Headlights
- Metal Wheels and Axles
- Die-Cast Truck Sides, Pilots and Fuel Tank
- (2) Remotely Controlled Proto-Couplers®
- Metal Chassis
- Metal Handrails and Decorative Horn
- (2) Precision Flywheel Equipped Motors
- All Metal Wheels and Gears
- Illuminated Number Boards
- (2) Engineer Cab Figures
- Operates On O-42 Track
- Intricately Detailed ABS Body
- Lighted Cab Interiors
- Metal Body Side Grills
- Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Passenger Station Proto-Effects™
- Locomotive Measures: 18 3/4" x 2 1/2" x 3 1/2"



O-Scale Rolling Stock

No other O Gauge manufacturer has released the variety of rolling stock found in the M.T.H. Premier Line. If you want to create or enhance a model railroad with exciting, realistic rolling stock, look no further than M.T.H. Electric Trains.

At M.T.H. our designers are always searching for new ways to give customers attractive options. New for 2000, M.T.H. now offers each separate sale piece of Premier rolling stock in two different car numbers. This new feature makes it easier than ever to assemble realistic-looking trains. There is no longer any need to touch-up the numbers or to look for a reissue if you want two identical cars with different numbers. It's just one more reason model railroading with M.T.H. is better than ever.

M.T.H. Premier freight cars and non-revenue equipment feature precision molded ABS plastic bodies, most mounted atop die-cast, sprung trucks with operating metal couplers. Each truck features needle-point axles and fast-angle metal wheels for a smooth-rolling, quiet ride. Each intricately detailed body sports an attractive paint scheme and detailed graphics that are bound to make these M.T.H. Premier Scale Freight Cars stand out amongst your roster.

FEATURES INCLUDE

- Each Car is Available with Two Different Numbers
- Durable ABS Intricately Detailed Bodies
- Caboose Interiors With Overhead Lighting
- Die-Cast 4 or 6-Wheel Trucks
- Operating Die-Cast Metal Couplers*
- Colorful, Attractive Paint Schemes
- Most Cars Operate On O-31 Track
- Decorative Brake Wheels
- Separate Metal Handrails (on cabooses)
- Fast-Angle Wheel Sets
- Needle-Point Axles
- Sliding Box Car Doors
- Stamped Metal Floors (on most cars)
- 1:48 Scale Dimensions

* excluding scale test car



O-31
Wonder Bread
50' Airlide Hopper Car
Item No. 20-97426 \$44.95

NEW



O-31
Burlington Northern
50' Airlide Hopper Car
Item No. 20-97427 \$44.95

NEW



O-31
Norfolk Southern
4-Bay Hopper Car
Item No. 20-97428 \$39.95



O-31
Chessie
2-Bay Centerflow Hopper
Item No. 20-97422 \$42.95

NEW



O-31
ACF Demo
2-Bay Centerflow Hopper
Item No. 20-97423 \$42.95

NEW



O-42
Hercules
3-Bay Centerflow Hopper
Item No. 20-97424 \$42.95

NEW



O-42
Santa Fe
3-Bay Centerflow Hopper
Item No. 20-97425 \$42.95

NEW



O-31
LUNX
50' All-Door Box Car
Item No. 20-93046 \$42.95

NEW



O-31
TCAX
50' All-Door Box Car
Item No. 20-93047 \$42.95

NEW



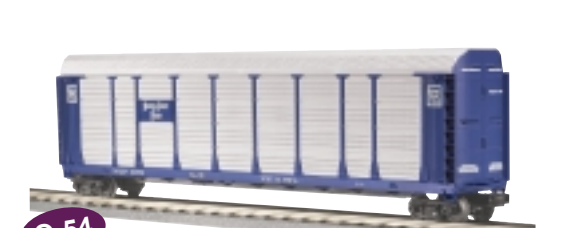
O-31
Santa Fe
50' Single Door Box Car
Item No. 20-93042 \$42.95

O-31

Delaware & Hudson
40' Single Door Box Car
Item No. 20-93045 \$39.95



O-54
Santa Fe
Corrugated Auto Carrier
Item No. 20-98254 \$44.95



O-54
Nickel Plate Road
Corrugated Auto Carrier
Item No. 20-98253 \$44.95

O-54

Norfolk Southern
Center I-Beam Flat Car
Item No. 20-98255 \$44.95



O-31
Delaware & Hudson
Flat Car with 20' Trailers
Item No. 20-98108 \$44.95



O-31
Santa Fe
Flat Car with 20' Trailers
Item No. 20-98121 \$44.95

O-31

Norfolk Southern
Flat Car with 40' Trailer
Item No. 20-98123 \$49.95



O-54
Pennsylvania
75' Depressed Flat Car with Transformer
Item No. 20-98122 \$49.95

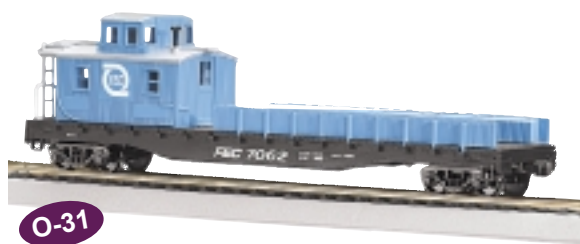




O-31
Florida East Coast
O Scale Crane Car
Item No. 20-98247 \$69.95



O-31
Boston & Maine
O Scale Crane Car
Item No. 20-98248 \$69.95



O-31
Florida East Coast
O Scale Crane Tender
Item No. 20-98249 \$44.95



O-31
Boston & Maine
O Scale Crane Tender
Item No. 20-98250 \$44.95



O-31
Santa Fe
Reefer Car
Item No. 20-94018 \$39.95



O-31
Tropicana
Reefer Car
Item No. 20-94016 \$39.95



O-31
Red Rose Ice Cream
Reefer Car
Item No. 20-94017 \$39.95



O-31
Nestle
Reefer Car
Item No. 20-94015 \$39.95



O-42
Suburban Propane
33K Gallon Tank Car
Item No. 20-96006 \$44.95



O-42
Pyrofax Gas
33K Gallon Tank Car
Item No. 20-96007 \$44.95



O-31
Delaware & Hudson
Extended Vision Caboose
Item No. 20-91029 \$44.95



O-31
New York Central
Extended Vision Caboose
Item No. 20-91030 \$44.95



O-27
Hill Crest Lumber Co.
Steel Caboose
Item No. 20-91028 \$44.95



O-27
Santa Fe
Steel Caboose
Item No. 20-91031 \$44.95



O-27
Delaware & Hudson
Steel Caboose
Item No. 20-91032 \$44.95



O-27
Norfolk Southern
Steel Caboose
Item No. 20-91033 \$44.95



O-31
Domino Sugar
Tank Car
Item No. 20-92012 \$42.95



O-31
Englehard Chemical
Tank Car
Item No. 20-92013 \$42.95



O-27
Geigy
8000 Gallon Tank Car
Item No. 20-96015 \$39.95



O-27
Santa Fe
8000 Gallon Tank Car
Item No. 20-96022 \$39.95

Die-Cast Test Cars

Rail yard scales need to be calibrated regularly so they weigh freight loads accurately. To simplify this task, railroads developed 80,000 pound scale test cars, which can be transported between yards on the rear of the train. Frequent sights at rail yards, they are an essential tool for any freight carrier. M.T.H. gives model railroaders yet another way to add to the authenticity of their layouts with the O scale die-cast test car



O-27
Denver & Rio Grande
O Scale Die-Cast Test Car
Item No. 20-98251 \$29.95



O-27
Nickel Plate Road
O Scale Die-Cast Test Car
Item No. 20-98252 \$29.95

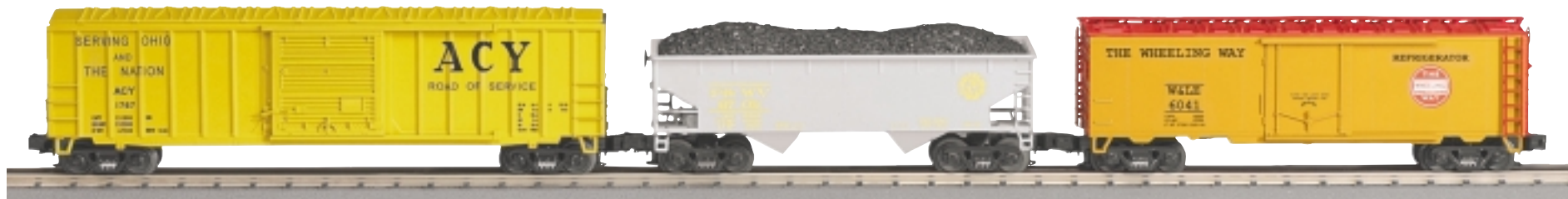


O - S C A L E R O L L I N G S T O C K



Union Pacific
Merger Series Freight Car Set
Item No. 20-90033 \$99.95

O-31 Rock Island, 100 Ton Hopper
O-31 Chicago NorthWestern, Tank Car
O-31 Minneapolis & St. Louis, 50' Box Car



Norfolk Southern
Merger Series Freight Car Set
Item No. 20-90024 \$99.95

O-31 Akron Canton Yt, 50' Box car
O-27 P&WV, 2-Bay Offset Hopper Car with Coal Load
O-31 The Wheeling Way, Reefer Car

Merger Series Freight Sets

Continuing a tradition started in 1999, the year 2000 finds additions to MTH's Merger Series Freight Car Sets. This on-going series will cover the many mergers that America's railroads have been involved in over the years, allowing you both to collect entire family trees and to enjoy cars from railroads that are rarely modeled. Each series will span several catalogs, depending on how many railroads were swallowed up as they merged to become one large railroad. In this edition, we feature parts of the Norfolk Southern, and Union Pacific mergers.

FEATURES INCLUDE

- Durable, Intricately Detailed ABS Bodies
- Die-Cast 4-Wheel Trucks
- Operating Die-Cast Metal Couplers
- Colorful, Attractive Paint Schemes
- Most Cars Operate On O-31 Track
- Decorative Brake Wheels
- Fast-Angle Wheel Sets
- Needle-Point Axles
- Sliding Box Car Doors
- Stamped Metal Floors (on most cars)
- 1:48 Scale Dimensions



Norfolk & Western, 4-Bay Hopper 6 Car Set
Item No. 20-97061 and 20-97062 \$229.95

O-31 4-Bay Hopper with Coal load

Perfect Complement for the 2000 N&W Class A Steamer



Duluth Missabe & Iron Range, 6 Car Ore Car Set
Item No. 20-97508 and 20-97509 \$179.95

O-31 Ore Car

Perfect Complement for the DMIR GP38-2 - See Page 21 and the 1999 DMIR Yellowstone Steamer



T.T.U.X., 5 Car Spline Car Set
Item No. 20-95035 \$199.95

O-54 Depressed Flat Car with Containers
O-54 Depressed Flat Car with Trailer
O-54 Depressed Flat Car with Containers
O-54 Depressed Flat Car with Trailer
O-54 Depressed Flat Car with Containers



Florida East Coast, 6-Car Freight Set
Item No. 20-90031 \$229.95

O-31 Rapid Discharge Hopper Cars
O-27 Bay Window Caboose

Perfect Complement for the Florida East Coast GP38-2 - See Page 21



"CSX Coke Express", 4-Car Coke Hopper Car Set
Item No. 20-97034 \$159.95

O-31 Coke Hopper Car

Perfect Complement for the CSX AC6000 - See Page 17

NEW



STREAMLINED PASSENGER SETS

It's hard to match the fun and beauty of a long, sleek passenger train speeding down the rails. Regardless of the roadname, colorful matching passenger cars and locomotives are what make running passenger trains so much fun.

MTH streamlined passenger sets offer unsurpassed detail, finish and value for the O Gauge passenger car lover. This kind of exceptional interior and exterior detail at affordable prices simply cannot be found elsewhere. Featuring undercarriage detail, interior seating, overhead car lighting and rubber end-of-car diaphragms, these passenger cars can be found in single, 2-car and 5-car configurations. Each car, measuring approximately 19 inches in length, sits atop die-cast metal trucks and features operating metal couplers.

FEATURES INCLUDE

- Durable ABS Intricately Detailed Bodies
- Detailed Seat Interiors With Overhead Lighting
- Die-Cast 4-Wheel Trucks
- Operating Die-Cast Metal Couplers
- Colorful, Attractive Paint Schemes
- Operates On O-42 Curves
- 5-Car Sets Feature 1 Baggage, 3 Coaches or 2 Coaches and 1 Vista Dome & 1 Observation Car
- 2-Car Sets Feature 1 Sleeper and 1 Diner Car
- Decorative Brake Wheels
- Separate Metal Handrails
- Fast-Angle Wheel Sets
- Needle-Point Axles
- Sliding Baggage Car Doors
- Undercarriage Detail
- Each Car Measures: 19" x 2 1/2" x 3 3/8"



Virginian
5-Car 70' ABS Passenger Set - - Smooth
Item No. 20-6569 \$249.95

Perfect Complement for the Virginian E-60 Electric - See Page 31



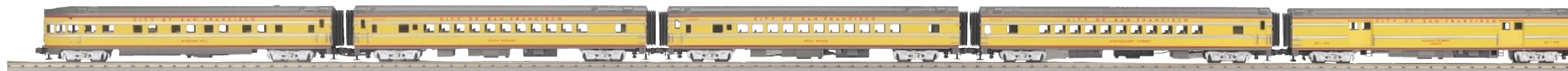
New Haven
5-Car 70' ABS Passenger Set - - Smooth
Item No. 20-6562 \$249.95

Perfect Complement for the New Haven EF 313 Electric - See Page 28



Baltimore & Ohio
5-Car 70' ABS Passenger Set - - Smooth
Item No. 20-6565 \$249.95

Perfect Complement for the B&O E6 ABA Diesel Set - See Page 23



City of San Francisco
5-Car 70' ABS Passenger Set - - Smooth
Item No. 20-6566 \$249.95

Perfect Complement for the City of San Francisco Diesel Set - See Page 23



STREAMLINED
PASSENGER SETS



Missouri Pacific
5-Car 70' ABS Passenger Set - - Smooth
Item No. 20-6567 \$249.95

Perfect Complement for the Missouri Pacific E6 ABA Diesel Set - See Page 23



New York Central
5-Car 70' ABS Passenger Set - - Smooth
Item No. 20-6568 \$249.95

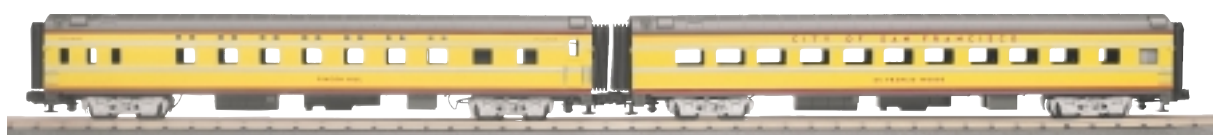
Perfect Complement for the NYC Niagara Steamer - See Page 11



New York Central
70' ABS Full Length Vista Dome Passenger Car - - Smooth
Item No. 20-6768 \$59.95



New York Central
2-Car 70' ABS Sleeper/Diner Passenger Set - - Smooth
Item No. 20-6668 \$99.95



City of San Francisco
2-Car 70' ABS Sleeper/Diner Passenger Set - - Smooth
Item No. 20-6666 \$99.95



City of San Francisco
70' ABS Full Length Vista Dome Passenger Car - - Smooth
Item No. 20-6766 \$59.95



Baltimore & Ohio
70' ABS Full Length Vista Dome Passenger Car - - Smooth
Item No. 20-6765 \$59.95



Baltimore & Ohio
2-Car 70' ABS Sleeper/Diner Passenger Set - - Smooth
Item No. 20-6665 \$99.95



Missouri Pacific
2-Car 70' ABS Sleeper/Diner Passenger Set - - Smooth
Item No. 20-6667 \$99.95



Missouri Pacific
70' ABS Full Length Vista Dome Passenger Car - - Smooth
Item No. 20-6767 \$59.95



STREAMLINED PASSENGER SETS



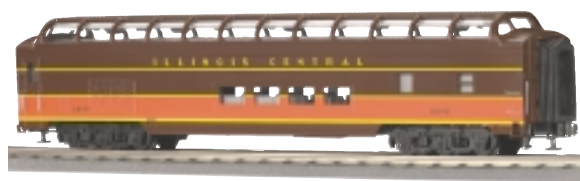
Illinois Central
2-Car 70' ABS Sleeper/Diner Passenger Set - - Smooth
Item No. 20-6661 \$99.95



New Haven
2-Car 70' ABS Sleeper/Diner Passenger Set - - Smooth
Item No. 20-6662 \$99.95



Virginian
2-Car 70' ABS Sleeper/Diner Passenger Set - - Smooth
Item No. 20-6669 \$99.95



Illinois Central
70' ABS Full Length Vista Dome Passenger Car - - Smooth
Item No. 20-6761 \$59.95



New Haven
70' ABS Full Length Vista Dome Passenger Car - - Smooth
Item No. 20-6762 \$59.95



Virginian
70' ABS Full Length Vista Dome Passenger Car - - Smooth
Item No. 20-6769 \$59.95



Amtrak
4-Car Amfleet Passenger Set
Item No. 20-6563 \$199.95

Perfect Complement for the Amtrak E-60 Electric - See Page 31



New Jersey Transit
4-Car Amfleet Passenger Set
Item No. 20-6564 \$199.95

Perfect Complement for the New Jersey Transit E-60 Electric - See Page 31

4-Car Amfleet Passenger Sets

When Amtrak was formed in the early 1970s, its fleet of old streamlined cars had been culled from the passenger lines it was formed to replace. These aging cars eventually needed replacement, prompting Amtrak to commission a program to build a new "Amfleet" class of cars. The completed class featured two different styles of Amfleet cars, providing both coach and dining service. The typical consist usually included one food service car and several coaches.

FEATURES INCLUDE

- Durable ABS Intricately Detailed Bodies
- Overhead Interior Lighting
- Die-Cast 4-Wheel Trucks
- Operating Metal Latch Couplers
- Operates On O-42 Track
- End-of-Car Diaphragms
- Detailed Car Undercarriage
- Detailed Car Interiors
- 4-Car Sets Feature (3) Coaches, (1) Cafe
- Each Car Measures: 19" x 2 1/2" x 3 1/4"



PREMIER SCALETRAX™

ScaleTrax™ by M.T.H. is the ultimate track layout solution for Hi-railers and other detail-oriented 3-rail model railroaders who like to keep a permanent layout. No longer will an O Gauge modeler have to accept the tubular track look, because the ScaleTrax low profile offers maximum accuracy and the exceptional quality of M.T.H. products. They are perfect for your authentic looking layout.

Each ScaleTrax track section features two solid extruded authentically profiled Nickel-Silver rails and one inconspicuous blackened solid extruded nickel-silver center rail - all affixed to accurately sized and spaced track ties. No longer will your consists ride too high off the ground. Best of all, the end-of-rail electrical connectors come pre-welded to the underside of each section. There is no need to worry about loose rail joiners with this track!

Whether assembling your first layout or replacing your old track, ScaleTrax is the most realistic and durable 3-rail scale O-gauge track system available.

FEATURES INCLUDE:

- Solid Nickel-Silver Rails
- Low Profile Appearance With "Near Scale" Proportions
- Molded-In Track Section Connections For Easy Assembly

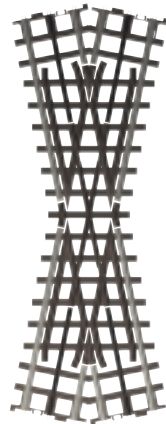


ScaleTrax™ - 30" Straight Track Section
Item No. 45-1019 \$9.95

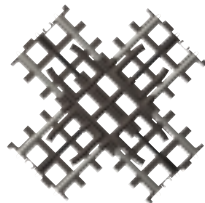


ScaleTrax™ - 30" FlexTrack Section
Item No. 45-1049 \$9.95

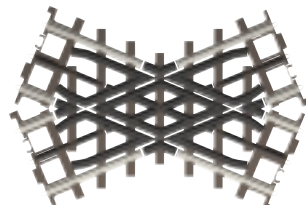
ScaleTrax™
15" Uncoupling Track
Item No. 45-1035 \$19.95



ScaleTrax™ - 22° Crossing
Item No. 45-1015 \$19.95



ScaleTrax™ - 90° Crossing
Item No. 45-1005 \$19.95



ScaleTrax™ - 45° Crossing
Item No. 45-1006 \$19.95



ScaleTrax™ - 1.75" Track Section
Item No. 45-1011 \$2.49



ScaleTrax™ - 4.25" Track Section
Item No. 45-1012 \$3.50



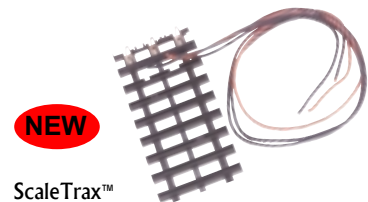
ScaleTrax™ - 5.0" Track Section
Item No. 45-1013 \$3.50



ScaleTrax™ - 5.5" Track Section
Item No. 45-1014 \$3.50

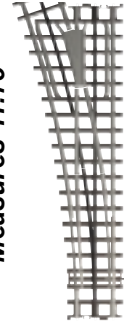


ScaleTrax™ - 10" Straight Track Section
Item No. 45-1001 \$3.25



NEW
ScaleTrax™
Lock-on (track not included)
Item No. 45-1033 \$3.99

O-54 and O-72
Measures 11.75"



ScaleTrax™ - 0-31 Switch (LH)
Item No. 45-1003 \$49.95

ScaleTrax™ - 0-31 Switch (RH)
Item No. 45-1004 \$49.95

ScaleTrax™ - 0-54 Switch (LH)
Item No. 45-1008 \$49.95

ScaleTrax™ - 0-54 Switch (RH)
Item No. 45-1009 \$49.95

ScaleTrax™ - 0-72 Switch (LH)
Item No. 45-1021 \$49.95

ScaleTrax™ - 0-72 Switch (RH)
Item No. 45-1020 \$49.95



ScaleTrax™ - 0-31 Curved Section
Item No. 45-1002 \$3.50

ScaleTrax™ - 0-54 Curved Section
Item No. 45-1007 \$3.50

ScaleTrax™ - 0-72 Curved Section
Item No. 45-1010 \$4.75

ScaleTrax™ - 0-80 Curved Section
Item No. 45-1034 \$4.99

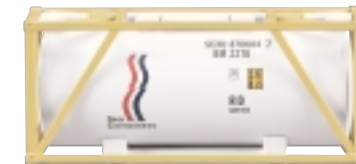


PREMIER ACCESSORIES

Premier O Scale accessories are accurately sized for Hi-railers and other modelers who want to add to their 1/4" scale layouts. These exciting accessories are a simple way to expand your O Scale layout. Add accurate containers or a junk load, to give your trains that final touch of realism.



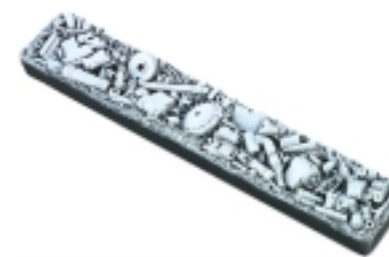
20' Container Set
Item No. 20-95037 \$24.95



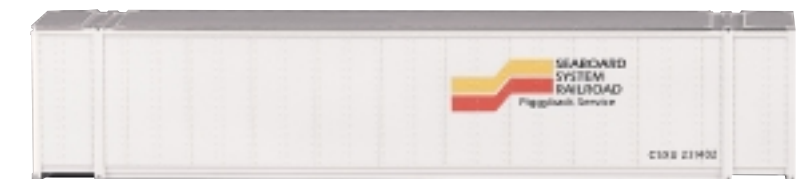
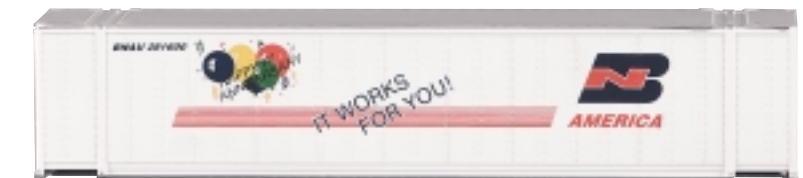
Tank Container Set
Item No. 20-95040 \$24.95



Junk Load
Item No. 20-30001 \$8.95



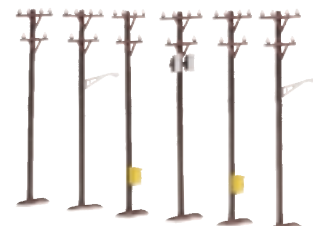
40' Container Set
Item No. 20-95038 \$29.95



48' Container Set
Item No. 20-95039 \$34.95

O Scale Accessories

O Scale accessories are accurately sized for Hi-railers and other modelers who want to add to their 1/4" scale layouts. Most of the lights and accessories feature stamped metal, die-cast metal or durable ABS plastic construction. M.T.H. has taken great strides to ensure that RailKing O Scale Accessories look and operate prototypically. Much of the action of RailKing Scale Accessories is motor-driven, resulting in smooth, controlled motion. As always, each can be easily connected to most power supplies for realistic trackside operation and detailing, and most come pre-assembled for simple, out-of-the-box use. Like all M.T.H. accessories, these are perfectly compatible with the Accessory Interface Unit that allows DCS remote control of accessories and track switches.

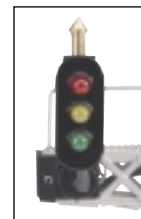


6 Piece Telephone Pole Set
Measures: 5 3/4" Tall
Item No. 30-1088
\$14.95



Road Sign Set
7 signs (2 each)
Measures: 2" Tall
Item No. 30-1087
\$12.95

Modern Operating Crossing Signal
Measures: 7" Tall
Item No. 30-11006
\$49.95



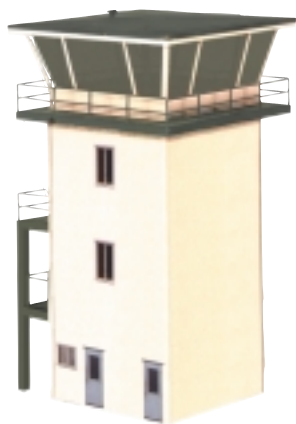
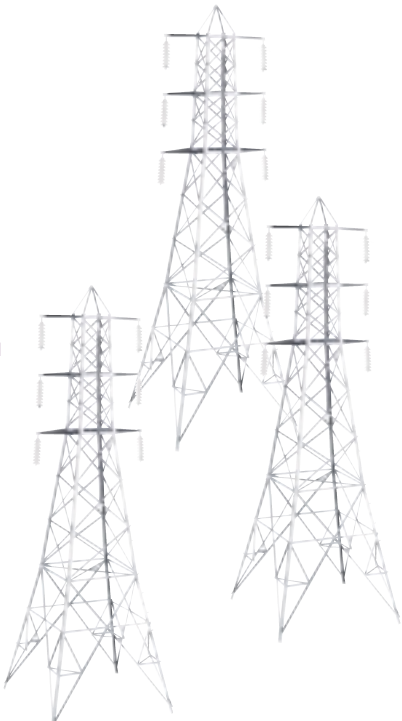
O Scale Vertical Signal Heads
Item No. 30-11009A
\$9.95

O Scale Cantilevered Signal Bridge
Measures: 8 1/2" x 2 1/2" x 6 1/2"
Clearance: 6"
Item No. 30-11009
\$49.95

O-Scale Operating Crossing Signal
Measures: 7 1/2" Tall
Item No. 30-11010
\$49.95



Hi-Tension Tower Set
Measures: 20" x 6 3/8" x 6 3/8"
Item No. 30-1056
\$59.95



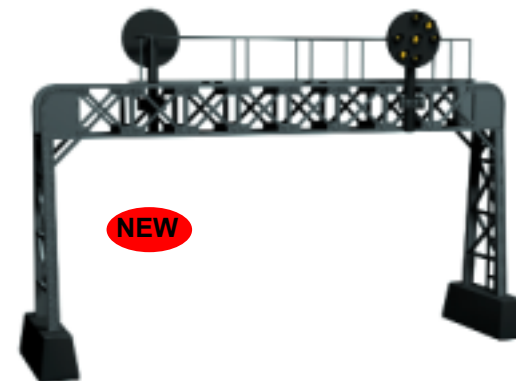
O Scale Yard Master Tower
Measures: 11" x 5" x 6"
Item No. 30-11027
\$54.95



O Scale Water Tower
Measures: 10 1/4" x 6 1/4" (Diameter)
Item No. 30-11028
\$59.95



12 Piece Figure Set #2
3 Women Sitting, 1 Woman Standing, 3 Men Sitting, 2 Man Standing, 3 Children Sitting, 1 Child Standing
Item No. 30-11029
\$19.95



O Scale Penny Signal Bridge
Item No. 30-11030
\$49.95

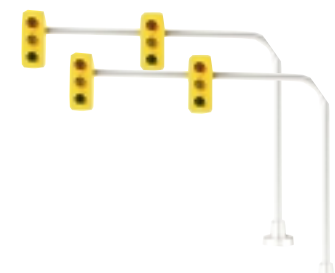
NEW



O Scale Dwarf Signal
Measures: 1" x 1 7/8" x 1 3/4"
Item No. 30-11011
\$24.95



Traffic Light Set - Single Lamp
Measures: 5" Tall
Item No. 30-1089-1
\$19.95



Traffic Light Set - Double Lamp
Measures: 5" Tall
Item No. 30-1089-2
\$24.95



O Scale 7 Light Block Signal
Measures: 7" x 1 1/2" x 2"
Item No. 30-11013
\$39.95



O Scale Operating Block Signal
Measures: 8" Tall
Item No. 30-11005
\$29.95



O Scale Operating Crossing Gate Signal
Measures: 8 1/2" x 2" x 8"
Item No. 30-11012
\$59.95



O Scale Flashing Barricade
Measures: 1" x 1" x 2"
Item No. 30-11021
\$19.95



O Scale Crossing Flashers with Sound
Measures: 5 1/2" x 2 1/2" x 1"
Item No. 30-11014
\$49.95



White Picket Fence Set
Measures: 16" x 13"
Item No. 30-50002
\$9.95



O Lamp Set - Square
(Black)
Measures: 4" Tall
Item No. 30-1079
\$19.95



O Lamp Set - Hexagonal
(Black)
Measures: 4" Tall
Item No. 30-1062
\$19.95



O Lamp Set - Round
(Black)
Measures: 4" Tall
Item No. 30-1078
\$19.95



O Scale 3 Over 3 Vertical Signal
Measures: 6 3/4" Tall
Item No. 30-11024
\$49.95



O Scale 1 Over 1 Signal
Measures: 5" Tall
-3-Color
-3-Position LEDs for Accurate Signaling
Item No. 30-11025
\$49.95



O-Scale Die-Cast Water Column
Measures: 4" Tall
Item No. 30-11007
\$19.95



RealTrax™ 3.5" Track Section
Item No. 40-1018 \$3.50



RealTrax™ 4.25" Track Section
Item No. 40-1017 \$3.50



RealTrax™ 5.0" Track Section
Item No. 40-1016 \$3.50



RealTrax™ 5.5" Track Section
Item No. 40-1012 \$3.50



RealTrax™ 10" Straight Section
Item No. 40-1001 \$3.50



RealTrax™ Uncoupling Track Section
Item No. 40-1008 \$29.95



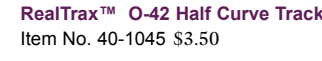
RealTrax™ Adapter Track Section
Item No. 40-1011 \$7.99



RealTrax™ 0-31 Curved Track Section
Item No. 40-1002 \$3.50



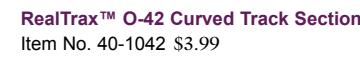
RealTrax™ O-31 Half Curve Track
Item No. 40-1022 \$3.50



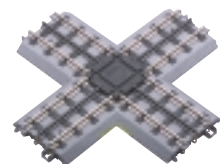
RealTrax™ O-42 Half Curve Track
Item No. 40-1045 \$3.50



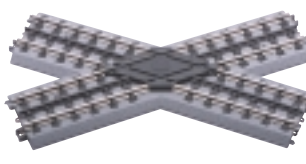
RealTrax™ O-72 Curved Track Section
Item No. 40-1010 \$4.99



RealTrax™ O-42 Curved Track Section
Item No. 40-1042 \$3.99



RealTrax™ 90° Crossover Track
Item No. 40-1006 \$19.95



RealTrax™ 45° Crossover Track
Item No. 40-1007 \$19.95



RealTrax™ 30" Straight Track Section
Item No. 40-1019 \$9.95



Tunnel Portal - Single
ABS Construction
Item No. 40-9014 \$14.95



Tunnel Portal - Double
ABS Construction
Item No. 40-9015 \$19.95



RealTrax™ Non-Slip Track Pads
(50 Count)
Item No. 40-1046 \$4.95



RealTrax™ Lighted Bumper
Operating Bumper Light
Measures: 2 1/4"l x 3"w x 1 3/4"h
Item No. 40-1024 \$12.95



RealTrax™ O Steel Arch Bridge (Rust)
Features, ABS construction.
Measures: Bridge - 30" Additional Girder Sections - 10"
Item No. 40-1031 \$59.95



RailKing Hell Gate Bridge
Red and White
Measures: 34 1/2" in Length
Item No. 30-9020 \$199.95



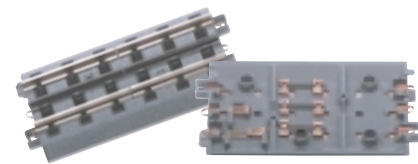
RailKing Hell Gate Bridge
Cream and Green
Measures: 34 1/2" in Length
Item No. 30-9021 \$199.95



RealTrax™ Lighted Lock-On
Simple Plug-In Connection
Operating Track Power On Lantern
Item No. 40-1003 \$4.99



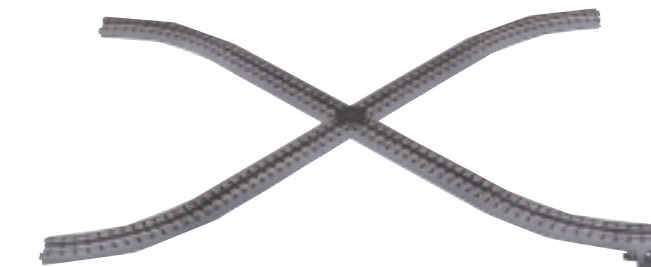
RealTrax™ Wire Harness
Includes 2 wires with male banana plugs at each end.
Item No. 40-1015 \$3.99



RealTrax™ 10" Insulated Straight Track Section Set
2 5" Sections
Item No. 40-1029 \$7.99



RealTrax™ O Bridge Girder (Rust)
10" long. Includes 2 stone bridge supports
Item No. 40-1032 \$19.95



RealTrax™ Figure 8 Layout Builder
(4) O-31 Curves, (4) 10 Straights, (1) Lighted Lock-on, (1) 90° Crossover
Item No. 40-1025 \$49.95



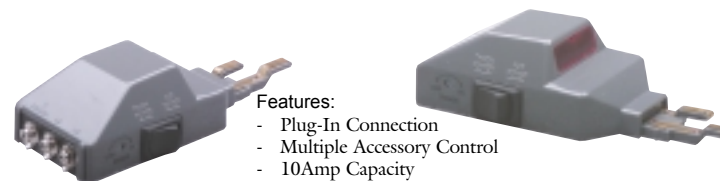
RealTrax™ Left Hand Track Siding Layout Builder
(1) Left-Hand O-31 Switch, (4) 10" Straights, (1) O-31 Curve, (1) RealTrax™ Bumper
Item No. 40-1026 \$79.95



RealTrax™ Right Hand Track Siding Layout Builder
(1) Right-Hand O-31 Switch, (4) 10" Straights, (1) O-31 Curve, (1) RealTrax™ Bumper
Item No. 40-1027 \$79.95

RealTrax™ Layout Builder

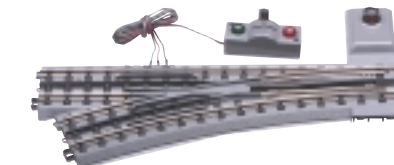
Expand your RealTrax™ layout quickly and easily with M.T.H. Layout builder packs. Each pack includes all you need to turn your loop or oval into a figure 8. Thanks to easy to assemble sections and color-coded wiring terminals, RealTrax Layout Builder packs will help you expand your empire in no time.



RealTrax™ Track Activation Device (I.T.A.D.)
Measures: 5" x 2"w x 1 1/4"h (3 3/4" when plugged into RealTrax™)
Item No. 40-1028 \$19.95

RealTrax™ Track Activation Device (I.T.A.D.)

The days of spring loaded activation devices and insulated track sections are now over thanks to the all-new RealTrax™ I.T.A.D. Infrared Track Activation Device. Utilizing the quick connect port found on every section of RealTrax track, the RealTrax™ I.T.A.D. detects the presence of a passing train by using an invisible beam of light. When the train is in front of the beam, your accessory is activated. Once the train is past, the I.T.A.D. is switched off. Thanks to a 10 amp capacity, you can run several signals and other accessories off of one RealTrax I.T.A.D.



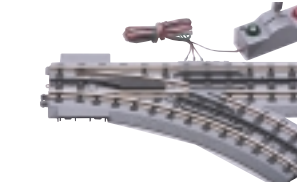
RealTrax™ O-72 Switch (LH)
Item No. 40-1021 \$69.95



RealTrax™ O-72 Switch (RH)
Item No. 40-1020 \$69.95



RealTrax™ O-31 Switch (LH)
Item No. 40-1005 \$49.95



RealTrax™ O-31 Switch (RH)
Item No. 40-1004 \$49.95

RealTrax™ O-42 Switch (LH)
(Photo not available)
Item No. 40-1044 \$59.95

RealTrax™ O-42 Switch (RH)
(Photo not available)
Item No. 40-1043 \$59.95

M.T.H. RealTrax™ Switches

These new M.T.H. RealTrax® switches are not your everyday O gauge turnouts. There are no plastic or metal pins to lose or confuse. Better yet, the RealTrax Switches perform all of the functions of other switches, but more efficiently and proficiently. Inside the Switch Block (lantern housing) are four powerful but efficient and quiet solenoid coils that drive the switch points back and forth at a voltage and current draw as yet unexperienced in model railroading. RealTrax switches operate on only 10 Volts and 1.25 Amps. Each switch contains a spring loaded mechanism that ensures that the points always will be in the correct position and features a double-micro switch-driven non-derailing feature. With RealTrax Switches, worries about derailments or inconsistent operation are a thing of the past.

RealTrax Switches are constructed of sturdy ABS plastic, solid extruded nickel silver rails and simple yet sturdy electronics. The design has been streamlined with features like a Switch Block Cover that hides the opening to the switch's underside and a Screw Terminal Cover that hides the traditionally unsightly yet necessary wire connections. The design follows other RealTrax items so that it blends into your layout, instead of standing out. With its ruggedness and slim styling, RealTrax Switches will give you years of trouble-free operation on either your RealTrax or your tubular rail O-Gauge model railroad.

- Easy-To-Connect Snap-Together Track Sections
- Molded Realistic Roadbed
- Authentic Looking Railroad Ties
- Solid Nickel-Silver and Steel Rails
- Does Not Require Connecting Pins or Rail Joiners
- Dual Micro-Switch Non-Derailing Feature
- Reversible Switch Motor
- Rotating Switch Lantern with Working Light
- Removable Connector Terminal Cover
- Rugged, Slimline Styling
- Compatible with Tubular Track Systems



RealTrax™ 8 Piece Catenary System

MTH is proud to announce its RealTrax® Catenary System and RealTrax Catenary Expander. As with all RealTrax products, the RealTrax Catenary is easy to use. Simply plug-in the authentic-looking catenary poles to the RealTrax Lock-On cutouts, position the wire per your layout's requirements, and enjoy the realism of a fully functional easy-to-use catenary system.

- Compatible with RealTrax® or any other O-Gauge Track
- Removable RealTrax® Lock-On Base Connection
- Thumbscrew Power Terminals
- Adjustable Pole Spacing
- Adjustable Messenger Beam Height
- Adjustable Wire Positioning
- Base Mounting Screws Included

RealTrax™ 8-Piece Catenary System
Item No. 40-1035 \$149.95

RealTrax™ 4-Piece Catenary System
Item No. 40-1036 \$79.95

M.T.H. ELECTRIC TRAINS

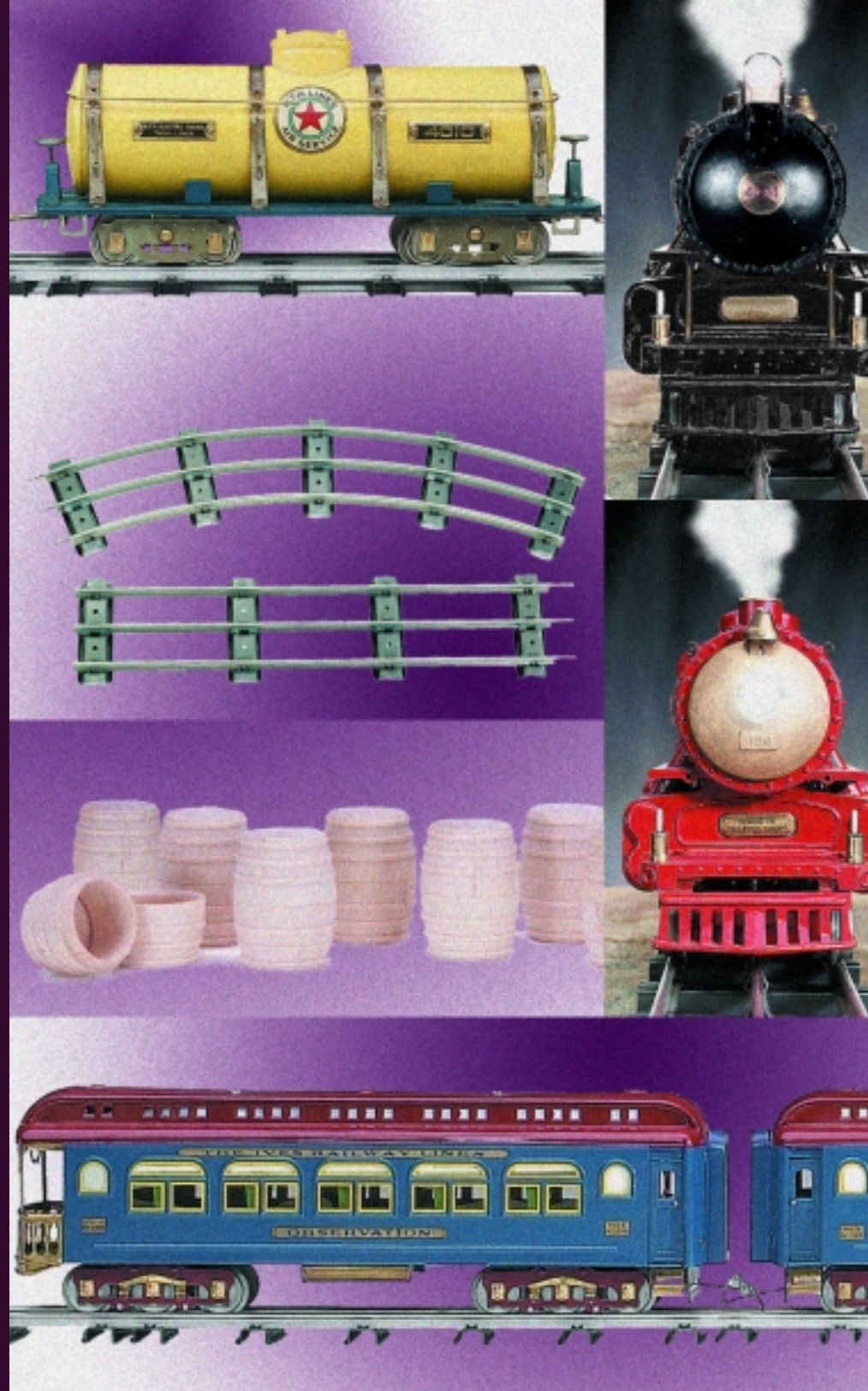
Tinplate Line

M.T.H. founder Mike Wolf has always had a special place in his heart for the artistic world of tinplate model railroading. After falling in love with the artistry of tinplate years ago, he has been manufacturing these trains for seventeen years now. As the President of M.T.H., he is immensely proud of our Tinplate Traditions™ offerings.

At M.T.H., we understand that the hobby of model railroading is rooted deeply in the hearts and minds of many railfans. For this reason M.T.H. takes great care in developing and enhancing our Tinplate Traditions Line. The cherished memories and magical moments of days gone by are represented in our beautiful collection of O and Standard Gauge trains and accessories, known as Tinplate Traditions.

As its name implies, the Tinplate Traditions Line offers reproductions of what collectors have long called tinplate trains. These products are constructed mainly of die-cast and sheet metal, and they are treasured not so much for their authentic detail as for their creative and nostalgic character.

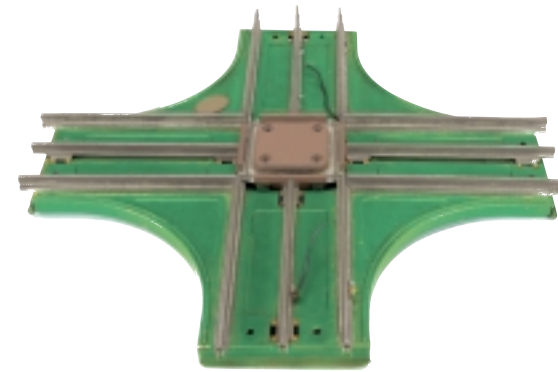
As you travel through the Tinplate Section of M.T.H.'s third year 2000 Catalog, you will journey through the past, experiencing model railroading as it used to be. You will appreciate the integrity and marvelous history of model railroading . . . and hopefully gain a deep understanding of what sets this hobby apart from the rest!



TINPLATE TRACK

Tinplate Track

Standard Gauge model railroad fans can find the classic look and style of tinplate track and switches only in our Tinplate Traditions® lineup. Best of all, M.T.H.'s track and switches are sure to be found far superior to those hard-to-find originals. Each switch is equipped with a realistic lighted switch block lantern and state-of-the-art switch motors and switch controllers, which ensure they will function flawlessly for years to come. Available in both regular radius and wide-radius turnouts, each track section and switch is fully compatible with all standard gauge track and has features that give the Standard Gauge modeler incredible layout diversity.



Std. Gauge 90° Crossover
Item No. 10-4006 \$49.95

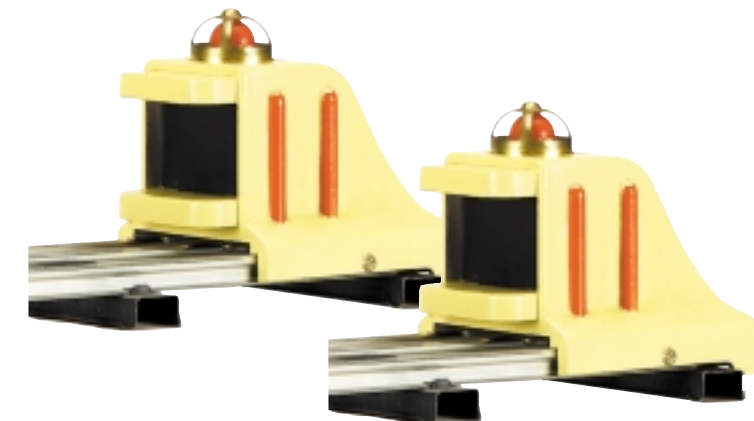


Std Gauge Track - Regular Straight
Item No. 10-1038 \$3.50

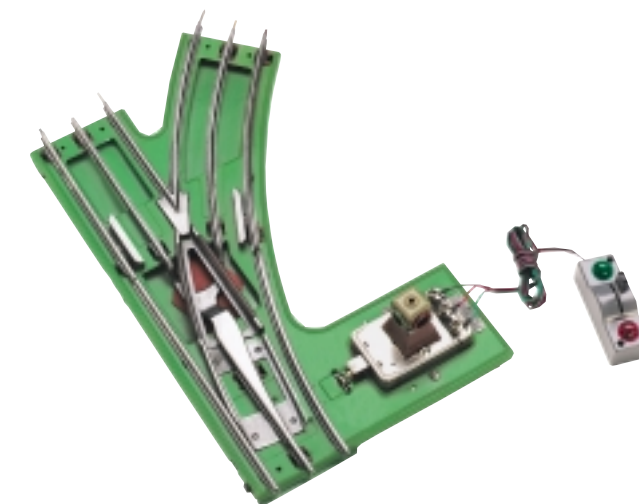
Std Gauge Track - Straight w/Wide Ties
Item No. 10-1040 \$3.95

Std Gauge Track - Wide Radius Curve w/Wide Ties
Item No. 10-1041 \$3.95

Std Gauge Track - Regular Curve
Item No. 10-1039 \$3.50



Std. Gauge Track Bumper Set
Item No. 10-4005 \$49.95



Std Gauge Switch (RH STD-42)
Item No. 10-4001 \$79.95

Std Gauge Switch (LH STD-42)
Item No. 10-4002 \$79.95

Std Gauge Switch Wide Radius (RH STD-72)
Item No. 10-4003 \$89.95

Std Gauge Switch Wide Radius (LH STD-72)
Item No. 10-4004 \$89.95



#1134 Ives Steamer

The legendary Ives #1134 Steamer returns to life as part of the Tinplate Traditions line. One of the the largest Ives standard gauge steamers, the 1134 will evoke memories of yesteryear. Like all M.T.H. Tinplate Traditions pieces, the 1134 closely models the original. The boiler, tender, and running gear are made entirely of metal. All painted surfaces are decorated with a baked enamel finish. Operators will appreciate the option of purchasing their 1134 equipped with a precision Pittman® motor, ProtoSmoke®, and the Proto-Sound® 2.0 with Digital Command System. Traditionalists will enjoy the option of a standard mechanical reversing unit and AC motor.



M.T.H. is proud to give tinplate lovers a chance to reassemble the Ives #1079R "National Limited" set from 1930. M.T.H.'s passenger cars, like the originals, will have detailed interiors complete with seats, tables, and lavatories, as well as removable roofs. In 1991, Greenberg Publishing® listed these rare blue and red originals at up to \$2000 per car if in excellent condition. These beautiful and fully detailed M.T.H. reproductions are much more affordable but sure to bring you just as much enjoyment.

A sure favorite, the beautiful and durable red 1134 steam engine is the perfect locomotive to pull the Ives 240-series 4-car passenger set, recreating the 1930 Ives 1079R "National Limited" set.



#1134 Ives Steamer - Contemporary
Item No. 10-1143-1

\$899.9510-1143-0, Traditional
\$899.9510-1143-1, Contemporary

Ives 4-Car 240 Series Passenger Set
Item No. 10-1144

\$599.9510-1144

FEATURES INCLUDE

Available in Two Configurations

- Traditional: AC Motor and Mechanical E-Unit
- Contemporary: Precision Pittman Motor, and Proto-Sound® 2.0 with Digital Command System

Locomotive:

- Baked Enamel Finish
- Metal Wheels and Axles
- Operating Original Metal Latch Couplers
- Die-Cast Boiler and Tender Bodies
- Stamped Metal Chassis
- Optionally Equipped with Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Passenger Sound Proto-Effects™
- Unit Measures: 26 1/4" x 5 1/4" x 4 1/4"

Passenger Cars:

- Brightly Painted Stamped Metal Bodies
- Original Metal Latch Couplers
- Metal Chassis
- Operating Interior Lights
- Detailed Seat Interiors
- Metal Wheels and Axles
- Each Car Measures Approximately: 21" x 4" x 5 3/4"



4694 Steam Engine

In 1929 and 1930, the #4694 4-4-2 steam engine was produced for another manufacturer using Ives 1134 casting modified to accept a different motor.

M.T.H.'s Tinplate Traditions line recreates this classic steamer in all the spectacular detail of the original, complete with a baked enamel finish and brass trim. The boiler, tender, and running gear are made entirely of metal, for the quality construction model railroaders have learned to expect from M.T.H. This



#4694 steam engine and the 4000 series automobile car, stock car, and tank car perfectly complement each other, to give you a consist that recalls the early days of model railroading.

The 4694 is available in either the contemporary or traditional configurations shown, giving operators the option of modern functions or the nostalgia of the original.

4694 Steam Engine
Item No. 10-1139-1

\$899.9510-1139-0, Traditional
\$899.9510-1139-1, Contemporary

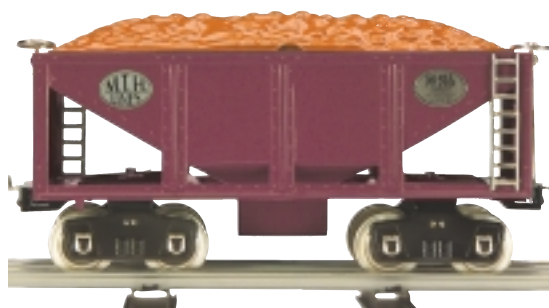
FEATURES INCLUDE

Available in Two Configurations

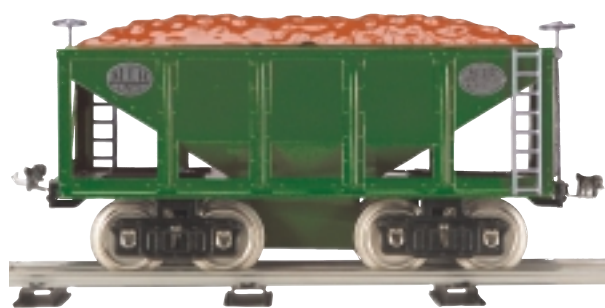
- Traditional: AC Motor and Mechanical E-Unit
- Contemporary: Precision Pittman Motor, and Proto-Sound® 2.0 with Digital Command System

Locomotive:

- Baked Enamel Finish
- Metal Wheels and Axles
- Operating Original Metal Latch Couplers
- Constant Voltage Headlight
- Precision Pittman® Flywheel Equipped Motor
- Metal Handrails and Decorative Whistle
- Operating ProtoSmoke® System
- Die-Cast Boiler and Tender Bodies
- Optionally Equipped with Proto-Sound 2.0 With The Digital Command System Featuring:
 - Variable Locomotive Speed Control
 - Independent Light Control
 - Diagnostic Memory Features
 - Customizable, Downloadable Sounds
 - Simultaneous TMCC Operation
 - Squeaking Brakes
 - Freight Yard Proto-Effects™
- Locomotive Measures: 26 1/4" x 5 1/4" x 4 1/4"



521 Series Std. Gauge Ore Car with Brass Trim
Item No. 10-1145 \$99.95



221 Series Std. Gauge Ore Car with Nickel Trim
Item No. 10-1146 \$119.95



4020 Stock Car
Measures Approximately: 16 1/2" x 3 3/4" x 4 3/4"
Item No. 10-1141 \$129.95

NEW



4018 Automobile Car
Measures Approximately: 16 1/8" x 3 3/4" x 4 3/4"
Item No. 10-1140 \$129.95

NEW



4010 Tank Car
Measures Approximately: 16 1/2" x 3 3/4" x 5 3/4"
Item No. 10-1142 \$129.95

NEW

M.T.H. is proud to make the classic looks of the tinplate freight car available to a new generation of standard gauge lovers. Each car features the bright paint that is the signature appearance of tinplate models, black oxide finished trucks, nickel truck journal boxes and latch couplers for that authentic look and feel of yesteryear.

In this catalog, we offer two more in our series of 200 and 500 series ore cars as well as a 4018 automobile car, 4020 stock car, and 4010 tank car. These 4000 series freight cars are the perfect complement for the 4694 steamer also offered in this catalog.

These brightly painted cars are sure to become a fast favorite with every tinplate lover. Equally at home behind M.T.H. or any other manufacturer's standard gauge locomotives, these stunningly attractive cars add color and variety to any standard gauge layout or Christmas Garden.

FEATURES INCLUDE:

- Stamped Metal Construction
- Brightly Painted, Baked Enamel Finish
- Original Metal Wheels and Axles
- Latch Metal Couplers

Tinplate Accessories

More lights and accessories return to our Tinplate Traditions® line-up in full color and durable metal construction. Each full sized lamp and trackside accessory features stamped metal or die-cast construction. There are no plastic bases and poles in any of these accessories



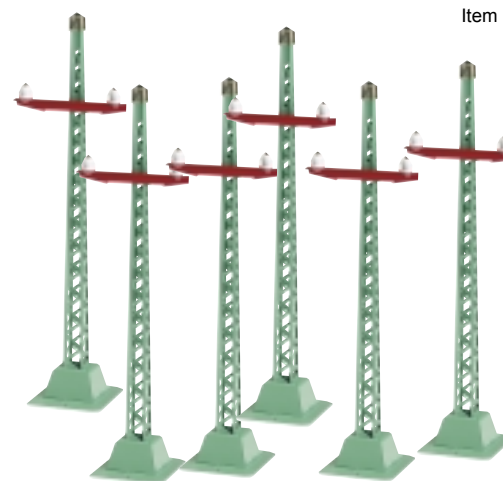
#71 Telegraph Post Set (gray/red)
Measures: 8 3/4" Tall
Item No. 10-1093 \$49.95



#63 Lamp Post (aluminum)
Measures: 13 3/4" Tall
Item No. 10-1108 \$39.95



#67 Lamp Post (dark green)
Measures: 13 1/2" Tall
Item No. 10-1095 \$39.95



#71 Telegraph Post Set (peacock/red)
Measures: 8 3/4" Tall
Item No. 10-1094 \$49.95



#87 Railroad Crossing Signal
Measures: 6 3/4" Tall
Item No. 10-1096 \$39.95



#78 Std. Gauge Block Signal (cream/white)
Measures: 8" Tall
Item No. 10-1097 \$59.95



Oil Drum Set
Measures: 2 3/16" Tall
Item No. 10-4008 \$19.95

NEW



Wine Barrel Set
Measures: 2 1/8" Tall
Item No. 10-4007 \$19.95

NEW

MTH Electric Trains



CHOOSE YOUR EXPERIENCE

Bells and Whistles
Requirements

with
MTH ONLINE



Take A Virtual Journey....

Through The Exciting World of M.T.H. Electric Trains

Do you need to find a retailer who might have that hard-to-find M.T.H. product in stock? Check out our new, easy-to-use Dealer/Product Locator. The online Locator will find all registered M.T.H. retailers who have in stock any M.T.H. item you search for and tell you how to contact those dealers. You can search by item type, item number, roadname, or locale, and the Locator even contains an archive of the entire M.T.H. product line, so you can research and locate models from past catalogs. It's never been easier to complete your M.T.H. collection.

It's also possible to **download and print instruction sheets and exploded views** of your locomotive from our website. You'll never have to worry about lost instruction sheets again, when they're so easy to access on-line. We also provide troubleshooting tips with advice about the easiest ways to solve common problems and "train tips" with information about how to take the best advantage of the features our trains offer. Setting up a train set, locomotive, or operating accessory to surprise a loved one? Simply visit the M.T.H. website any hour of the day or night to find the instructions when and where you need them.

We've upgraded our business systems so that our customers can stay in touch and have access to the **latest news on our products and retailers**. Customers needing to return an item for service to the M.T.H. Service Department can obtain a return authorization number through the M.T.H. website's e-mail link. Eventually, the system will allow a customer to check on the status of their returned items as it moves through the M.T.H. Service Center. Once an item has been serviced, our system will even e-mail that it has been shipped and tell you its tracking number.

Visit the M.T.H. website to find answers to many of your questions about product delivery dates, **new product announcements and information** on using M.T.H. products. Just purchased an M.T.H. product? Now you can fill out your warranty card or complete a survey online instead of mailing in the forms. Both are easy to do.

We've worked hard to create a well-rounded website that customers will find a convenient and valuable source of information as well as a vital community of fellow M.T.H. enthusiasts. Our commitment to using technology to improve the model railroading experience of our customers is reflected in the way we have organized this site. Here are some of the many services you will find at www.mth-railking.com.

Joining the **M.T.H. Railroaders' Club** is an easy way to begin experiencing this wonderful hobby, and signing up couldn't be easier—just visit our website and join in a few simple clicks. Once you join, you'll be able to visit a special Members Only section of the website where you and your fellow members will get to learn inside details about new products and programs coming from M.T.H. You'll also be able to read and leave messages on our M.T.H. Railroaders' Club message board and create your own M.T.H. Member Web Page within our site.

Naturally, a visit to the M.T.H. website will allow you to **e-mail** various departments, check out our latest catalogs and visit our online store. Most importantly, we are including information to help you find answers to virtually any question you might have about M.T.H. Electric Trains. The Product Locator, shipping schedules, exploded views that can be printed out, product instruction manuals that can be downloaded and FAQ and Service Tips are just a few of the many items included in our site.

Because this hobby is about fun, we have been sure to include some entertaining features as well. We want to be sure you enjoy the time you spend with us! Our frequent visitors especially like the **interactive multimedia animation**. "Ride" in a locomotive as you listen to the sound effects available on our engines. Turn our trains around so you can see them from different views. Roll-over our featured items and see what features they have to offer. We also offer an interesting free **monthly e-mail newsletter** to anyone who signs up for it. The M.T.H. website is your central location for online railroading fun.

Our Internet staffers continuously update the site so that you will never be far from the latest model railroading news. Compare our website to others and see how it reflects the proud tradition of customer service that distinguishes M.T.H. from the competition. We use state-of-the-art technology to continue our commitment to excellence and provide you with first-rate customer service and an unbeatable information resource through our website.

You Can Be A Member of the MTHRRC

For 2000, the M.T.H. Railroaders' Club offers exciting membership benefits for all our club members, whether you are RailKing®, Premier, or Tinplate Traditions™ fans.

Members in each option will receive an attractive railroad car in addition to all the other club member benefits listed below.

No matter which option you choose, you will receive a full selection of other club member benefits:

- All the new M.T.H. Catalogs mailed first-class directly to you for an entire year.
- The M.T.H. Railroaders' Club Bi-Monthly Newsletter full of information about new products, answers to questions about service, and other ideas about how to make the most of your M.T.H. products.
- A Membership Card granting you special perks that go with MTHRRC membership.
- Access to the special MTHRRC section of the M.T.H. web site, where you can receive inside information and exchange ideas with other M.T.H. railfans.
- An Individual Web Page of your own for you to design within the M.T.H. Web Site
- Special Software on an Interactive CD Rom, including track layout software, a database of all the products M.T.H. has ever made, access to M.T.H. catalogs in electronic format, "train music" samples from the Proto-Sound® library, and a fun railroading game you can play (a \$79.95 value).

As a member of the M.T.H. Railroaders' Club, you also have the option to buy the handsome forthcoming M.T.H. history book. You'll get more than 240 pages and 1900+ full-color photographs to help you appreciate the history of M.T.H. Electric Trains and how we got where we are today. The book will include complete information on our product lines through the 2000 volume 2 catalog, making it the most current historical reference you can obtain on M.T.H. Electric Trains.

Finally, members of any of the club options are welcome to purchase the club cars that come from the other membership categories. If you love all our offerings, you don't have to choose just one car.

Join the Club on Our Web Site
www.mth-railking.com

write for a club 2000 application

M.T.H. Electric Trains
7020 Columbia Gateway Drive
Columbia Maryland 21046-1532

Join the Club



MTHRRC Crane Tender Car
Item No. 30-7939

RailKing option members receive an eye-catching crane tender, painted to match the crane car that was given to 1999 RailKing members. With its sturdy construction, this crane tender will operate as well as it looks and keep up with any of your other cars.



MTHRRC BNSF Tank Car
Item No. 20-92014

Premier club members receive a beautiful BNSF tank car, with the colorful M.T.H. Railroaders' Club logo added. Featuring scale dimensions and the attention to detail you have come to expect from our Premier line, this car will complement any scale consist.



MTHRRC 200 Series Std. Gauge Tank Car
Item No. 10-1127

Tinplate fans can enroll in the Tinplate Traditions club option and receive this beautifully decorated 200 series standard gauge tank car. Like all our Tinplate Traditions 200 series cars, this one features all-metal construction and a durable baked enamel finish.

The MTH brand name brings to mind many positive points to MTH consumers. It's a name that stands for quality and value not seen in toy trains in decades. It's a name that brings a level of excitement to O Gauge fans unmatched by any other toy train manufacturer. This action packed 35-minute video brilliantly captures the excitement, quality and value found in MTH's trains in a variety of settings that model railroaders of any age will appreciate.

MTH Video - History
Item No. 60-1320 \$9.95

The first M.T.H. layout video features the best of M.T.H. in action on sensational layouts plus useful tips on layout building. Included are the spectacular 70 x 45 foot high-rail layout of Tony Lash and the M.T.H. Showroom display. Tony's layout is museum quality. He operates Premier steamers, diesels and rolling stock, including the Berkshire, Big Boy, Shay, Y-6bs, SP Daylight set and more. Another highlight is the trees - \$60,000 worth. Tony commissioned the best scale model and scenery makers to create a truly spectacular, finely detailed layout. The M.T.H. showroom layout is multi-level and operates both O and Standard gauges. Also featured is an interview with Mike Wolf and a two-level, scale-detailed layout custom built under the direction of internationally known designer Richar Johnson. Be prepared to be amazed.

60 minutes. \$19.95

Produced by TM Books and Video, creators of the popular I Love Toy Trains video series



Great MTH Video - 55 minutes
by TM Books and Video
Item No. 60-1325 \$19.95

In the twenty years that M.T.H. has been on the model railroading scene, we have reinvigorated the industry by providing a level of value and quality unmatched by our competitors. Now you can get the inside story on the history of Mike Wolf and the company he founded. The forthcoming 240+ page hard-cover M.T.H. History Book beautifully captures the essence and story of M.T.H. Electric Trains through the easy-reading narrative of an M.T.H. aficionado. Also featuring almost 1900 full-color photos, the book contains a complete history of our product line, through the 2000, volume 2 catalog, making it the most complete history to-date of M.T.H. products. It is an invaluable resource for any M.T.H. fan

MTH Book - History
Item No. 60-1321 \$49.95

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.

MTH products are warranted 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 MTH Electric Trains, Inc. 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 the original sales receipt from an Authorized M.T.H. Train Merchant, which gives the date of purchase. Call 410-381-2580, fax 410-423-0009, or e-mail the Service Department at service@mth-railking.com to obtain a return authorization number.

This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

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

All products depicted in this catalog are not production models. In some cases, the items pictured may be HO, O Scale or some other scale product.
All item's graphic features and content are subject to change after publication. All product features may be verified on their retail packages.

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