



S Gauge Trains That Do More



2019 - 20
S GAUGE TRAINS

S Gauge — Your Way

Seven years ago, we were honored to take over S Helper Service, a groundbreaking S Gauge manufacturer. Over the span of two decades, owners Michael Ferraro and Don Thompson had created a stable of locomotives and cars with detail and performance second to none. For S Gauge modelers — who consider it the perfect “Goldilocks” scale, not too big and not too small, midway between O and HO — S Helper Service was a lifeline.

Our goal is to reintroduce the S Helper lineup, bring out new products and, where possible, add additional features that make them even more fun to operate. What we bring to the party is the resources of a train company with 40 years of innovation across multiple scales, from HO to O Gauge and One Gauge. We have a separate staff in their own facility dedicated to research and development; their work has generated 10 U.S. patents related to model train operation.

As a result, we offer operating features that have seldom been found in S Gauge products, using our Proto-Sound 3.0 technology. Our locomotives, for example, offer speed control for steady speeds regardless of hills and

curves, along with prototypical sounds for each engine type — even when operated with a conventional AC or DC transformer. Every locomotive is also equipped with NMRA-standard 28-function DCC command control, in addition to our own proprietary DCS Digital Command System. For more on the operating potential of Proto-Sound 3.0, see the full description on the following pages.

Operate Your Way

If you're in S Gauge, you're likely in one of two main groups: hi-rail modelers who operate with deeper-flange, American Flyer®-style wheels and American Flyer-style operating couplers, and scale modelers who use smaller-flange scale wheels and Kadee® S Scale couplers.

Either way — or even if you combine the two styles — we've got you covered. All M.T.H. S Gauge diesel locomotives include installed hi-rail wheels and couplers and replacement scale wheels and Kadee-compatible scale couplers. And in this catalog, for the first time, all newly cataloged freight cars are available in both hi-rail and scale versions — each with the appropriate wheels and couplers. In addition, both styles of freight cars come with mounting pads to fit Kadee couplers.

And as noted above, all M.T.H. S Gauge engines are equipped to run on any type of power — right out of the box. The only adjustment you'll need to make is flipping the DCC/DCS switch to DCC if you operate with NMRA-standard command control.



New Engines

In our first S Gauge catalog, we re-introduced the S Helper EMD F3 diesels, upgraded with our Proto-Sound 3.0 technology. In this catalog, we've added the F3's younger and more popular sibling, the F7 “covered wagon,” along with two widely used first-generation EMD switchers: the NW2 and its successor, the SW8.

Fitting the complete Proto-Sound sound and command control package into the small hoods of the switchers was a challenge, but our R&D team has risen to the occasion. Like all of our S Gauge locomotives, these switchers feature a precision flywheel-equipped motor that can maintain a steady speed as slow as three scale miles per hour — or hustle down the main line at up to 120 SMPH (about twice as fast as the prototypes could handle!).

Of course these additions to our lineup maintain the terrific detailing of the original S Helper tooling, down to the separately added door handles on the hood of the NW2 and the windshield wipers on both switchers and our F-units. Each engine also features a pair of hand-painted crew figures to keep your railroad running on schedule.

New Cars

Just before they sold us their company, Michael and Don completed tooling on a new car, a 2-bay fishbelly hopper. The car, however, was never produced — until now. We're excited



to offer it for the first time in this catalog, in eight road names, with two car numbers for each road. With separately added metal grab irons and a detailed brake system, these cars will make a striking addition to any freight consist, from the late 1930s until well into the diesel era.

This catalog also marks the return of the extended vision caboose to our S Gauge lineup. With etched metal roof walks, a full brake system, numerous metal handrails and grab irons, a brakeman figure in the cupola, and windshield wipers on the cupola windows, we think the detailing on this model rivals that of any other model of this caboose in any other scale. We've even added LED illumination for the marker lights and the detailed interior.

To view all of these models and more, we invite you now to turn the page and see for yourself what we have to offer in this, our 40th year of building model trains. As always, we hope you'll find items in this catalog that will surprise and delight you, and help you continue to enjoy this most wonderful of hobbies.



It's Easy to Find and Buy M.T.H. S Gauge Products

PS-2 Covered Hopper


Until the advent of the covered hopper, bulk commodities like grain and cement were usually packed in sacks and loaded into box cars. Loading and unloading was a tedious, time-consuming labor-intensive affair. In the 1930s, response to shipper demand for a more efficient process, a few railroads took the basic coal hopper design and added a roof with loading hatches, enabling commodities to be loaded from the top and unloaded from the bottom.

The Pennsylvania Railroad's 1430 was one of the first of these pioneering covered hopper designs to be built in quantity, starting in 1935. It wasn't until two decades later that a mass-produced covered hopper took the market by storm: the Boston & Maine PS-2. Following on the success of the PS-1 design, introduced in 1953, the PS-2 was a runaway success, finding a place on the rosters of most North American railroads and a large number of manufacturing firms.

The PS-2's all-steel construction did a great job of keeping commodities clean and dry, from grain to cement, coal, lime, salt, sand, and carbon black. In theory they could haul a different commodity on each trip and the necessity of thoroughly cleaning the wheels when switching commodities meant that most cars in fact worked in dedicated service hauling a single type of cargo.


Boston & Maine - PS-2 Covered Hopper

35-75044 Car No. 5520 \$59.95
35-75045 Car No. 5521 \$59.95




Baltimore & Ohio - PS-2 Covered Hopper

35-75042 Car No. 400154 \$59.95
35-75043 Car No. 400156 \$59.95



Duquoin Moline & Iron Range - PS-2 Covered Hopper

35-75038 Car No. 4988 \$59.95
35-75039 Car No. 4989 \$59.95



Visit your local authorized M.T.H. Retailer or www.mthSgaugeTrains.com to purchase these offerings.

35-75044

S-Gauge PS-2 Hopper Car

Order Now
Add to Wishlist

\$49.95
\$59.95

Description Overview Features Find It Locally Support

PS-2 Hopper Car - Boston & Maine
Car No. 5520
Roadname: Boston & Maine
Product Item Number: 35-75044
Catalog: Et 2015 S Gauge Catalog
Delivery Status: MTH S Gauge
This product is compatible with all S Gauge track systems including those systems offered by Lionel.

Order It Now OR Find it Locally*

Description Overview Features Find It Locally Support

Dealers

The following dealers meet your selection criteria. Click the Show button next to a dealer to get more detailed contact information for the dealer (and to see what items are in stock, if you requested any).

| Show | Name | City | State | Zip |
|------|----------------------------|---------|-------|-------|
| Show | GRAND CENTRAL LTD. | LINCOLN | NE | 68507 |
| Show | LEGACY STATION LIMITED | LILBURN | GA | 30047 |
| Show | MTH HAS THIS ITEM IN STOCK | | | |

Click on the item description in this catalog

Select your local dealer

*Retailers report items that are in stock

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Proto-Sound 3.0

THE RICHEST SET OF FEATURES IN MODEL RAILROADING

Whether you operate with a conventional transformer or in command mode with DCC or DCS™ (M.T.H.'s Digital Command System), the Proto-Sound 3.0 system found in every locomotive in this catalog offers more realism, more fun, and more variety than any other locomotive control system in any scale.

FULL COMPATIBILITY WITH ALL S GAUGE OPERATING SYSTEMS

Right out of the box, every Proto-Sound 3.0 M.T.H. engine is compatible with all S Gauge operating systems: conventional AC, conventional DC, DCC, and our own Digital Command System (DCS).

VIVID ENGINE SOUNDS

Proto-Sound features crystal-clear digital sounds. We strive to make our sounds as authentic as possible, using the correct prime mover sounds for each of our diesels, for example. With our optional DCS system, you can tune each engine to your preference by individually adjusting bell, horn and prime mover volume.

STATION SOUNDS

Proto-Sound passenger engines offer Passenger Station Proto-Effects™, a complete arrival and departure sequence that you can activate from your DCC or DCS controller. In most cases, the station sequence features an actual name train pulled by that particular engine. Freight engines include Freight Yard Proto-Effects, a symphony of freight terminal sounds.

ATMOSPHERIC SOUNDS

Crew conversations and a host of other atmospheric sounds play automatically at random when using a conventional transformer — or can be activated manually from a DCC controller or the DCS handheld.

EXTRAORDINARY SLOW SPEED CAPABILITY

Proto-Sound engines can throttle down as slow as three scale miles per hour, highball down the main line, and maintain any speed in between. With certain DCC controllers, and any DCS controller, you can set engine speed in one-scale-mile-per-

hour increments up to 120 smph. Go ahead, get out your stop watch and ruler and see how accurate our scale speeds are.

UNMATCHED SPEED CONTROL

The Proto-Speed Control™ built into Proto-Sound 3.0 acts like the cruise control on a car, keeping your train moving at the speed you select, regardless of hills and curves. You can even switch off the speed control if you prefer.

MULTIPLE UNIT CAPABILITY

In DCS command mode, all locomotives set to the same throttle setting — 37 scale miles per hour, for example — will move at virtually the same speed. This makes it easy to double or even triple-head nearly any combination of Proto-Sound 3.0 locomotives.



LIGHTING EFFECTS

Proto-Sound locomotives feature prototypical Rule 17 lighting — with headlights at full brightness in the direction of travel, and dim in reverse or when stopped — and a variety of other realistic lighting effects. Depending on the locomotive, these may include LED-illuminated number boards, class lights and marker lights. In DCS operation, many of these lighting effects can be individually controlled.

BRAKE SOUNDS

Engine brakes squeal whenever you throttle back sharply or pull into a station. In DCC or DCS mode, you can trigger the brake sounds manually with the press of a button.

BI-DIRECTIONAL COMMUNICATION

Proto-Sound 3.0 engines not only receive commands from the DCS system, they can report back vital information, trigger other devices to operate, and diagnose your layout's wiring and signal quality. Query a Proto-Sound 3.0 locomotive to find out how

many scale miles it's run or how many hours it's been powered up. Check out the strength of the DCS signal on the track or measure the track voltage at a trouble spot. Measure the length of your track in scale miles. All of this is possible today, but only with a Proto-Sound 3.0-equipped locomotive when operated using the DCS Digital Command System.

EASY LASHUPS AND HELPER ENGINES

Want to run lashups of locomotives like the prototype, with double- or triple-headed diesels? No other command control system does this as easily or reliably as the M.T.H. Digital Command System. With our DCS App or a DCS handheld controller, you can operate any combination of M.T.H. locomotives together as a lashup. They'll run in perfect synchronization with each other at any speed. You can even set your lashup so only the lead engine's bell and horn will sound, as in real life multiple-unit operation.

OPERATE 'EM ALL

In DCS command mode, unlike any other command system available today, you can have optional one-touch control over every Proto-Sound 3.0-equipped locomotive at the same time. Imagine, with the ALL command, your DCS system will start-up every locomotive at the same time. Almost every DCS feature can be sent to all the active engines at once. Tell 'em to run at 10 scale miles per hour and they'll all start moving at the same time and at the same speed.



DCC Features

Proto-Sound 3.0-equipped locomotives can be controlled in command mode with any DCC-compliant command control system. This means you can use your existing DCC controller to independently control your other DCC-equipped locomotives in addition to your Proto-Sound 3.0 locomotives on the same track at the same time.

When using a DCC controller, the following Proto-Sound 3.0 diesel locomotive features are accessible:*

- Headlight/Backup Light
- Bell
- Horn
- Start-up/Shut-down
- Passenger Station/Freight Yard Sounds
- All Other Lights (On/Off)
- Master Volume
- Forward Horn Signal
- Reverse Horn Signal
- Grade Crossing Signal
- Clickety Clack (On/Off)
- Idle Sequence 4
- Idle Sequence 3
- Idle Sequence 2
- Idle Sequence 1
- Extended Start-up
- Extended Shut-down
- Rev Up
- Rev Down
- One-Shot Doppler
- Coupler Slack
- Coupler Close
- Single Horn Blast
- Engine Sounds
- Brake Sounds
- Cab Chatter
- Feature Reset

* Check your DCC Controller's manual to see how many features it can access. A 28-function controller provides access to the greatest range of features in Proto-Sound 3.0 locomotives.

Visit us online at
www.mthSgauge trains.com
for our full line of
S Gauge track and accessories



S Gauge Trains That Do More



Simply the Best Way

DCS is the **EASIEST-TO-USE, MOST INTUITIVE** command control system you can buy.

It works with **ANY iOS OR ANDROID SMARTPHONE OR TABLET** or the optional DCS Remote Control.

It can be **UPGRADED FOR FREE** over the Internet.

It can **DO MORE** for less money than other command control systems.

It's why you'll have **MORE FUN** operating your trains than ever before.

It can **RUN ALMOST 7800* M.T.H. PROTO-SOUND® 2.0 & 3.0 LOCOMOTIVES** and every Lionel® TMCC®, EOB, or Legacy™ locomotive ever made — and run 99 of them at the same time, on the same track, independently, in command mode.

It can also **RUN ALL CONVENTIONAL AC LOCOMOTIVES** without the purchase of any additional hardware.

With the addition of an Accessory Interface Unit (AIU), it can **OPERATE ANY ACCESSORY OR SWITCH**. It can **CREATE SCENES AND ROUTES** that are triggered with one push of a button.

What can your remote do?

* Number of different Proto-Sound 2.0 and 3.0 engines cataloged through the 2019-20 M.T.H. S Gauge Catalog. While all Lionel TMCC features can be accessed by the DCS App or handheld remote, at present some Legacy features cannot be accessed by the App or remote.



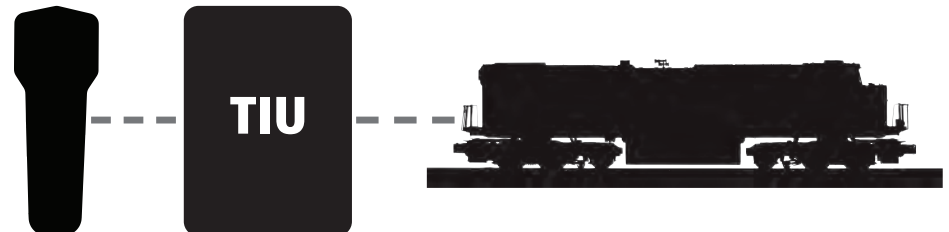
Command Control Explained

In conventional model train operation, an AC or DC transformer varies track voltage to adjust engine speed and direction. Command systems such as DCS, however, put a constant voltage on the track (around 18 volts for DCS) and vary speed by telling each engine how much of that voltage to use.

Unlike conventional control, command control allows different engines to do different things, even when they are on the same track — like run at different speeds, go in different directions, or make different

sounds. You can even combine several engines into a “lashup,” working together under a single throttle.

How it works: In the DCS system, commands such as speed, direction, and sound control are sent as radio signals from a smart device or handheld controller to a receiver, which translates those radio signals into digital information. That digital signal is sent through the rails and picked up only by the appropriate engine — telling it to go, for example, 37 miles per hour, blow the horn, or reverse direction.



Learn More About It
Shop Online at
www.mthtrains.com

to Run a Railroad™

M.T.H. Railroading App

With the DCS App, any Apple or Android smart device can run trains on your layout — and control switches and accessories too, with the Premium version of the App and an Accessory Interface Unit (AIU).

When friends visit, they can download any version of the App on their phone or tablet and run trains as well. Each visitor can run their own train.

Our App isn't limited to just DCS control either. With it, you can access special pages on the M.T.H. website, see the latest news and catalogs, and shop for M.T.H. products.

Try the App for Free, Upgrade for \$5 or \$25

Download the Apple or Android App from iTunes or Google Play



Free Version

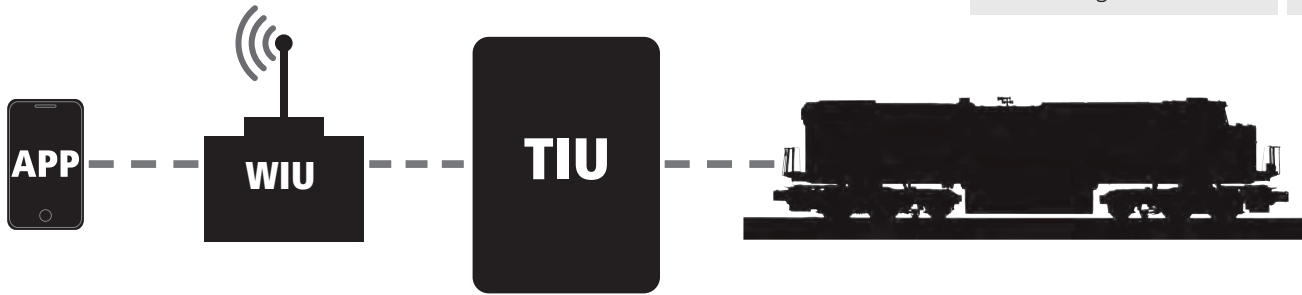
- Control up to 3 locomotives simultaneously
- Operate bell, whistle/horn and station sounds
- Activate couplers
- Control volume, smoke and headlights

Standard Version (\$5)

- Control up to 99 locomotives simultaneously
- Control all Free features
- Adjust engine-specific sounds and features
- Configure maximum speeds

Premium Version (\$25)

- Control all Free and Standard features
- Control switches and accessories with AIU
- Build lashups
- TMCC/Legacy control
- Conventional control



See How Easy It Is To Add APP Control To Your Layout

Check Out The Video:
www.mthtrains.com/dcs2018

Choose from THREE different DCS options

1. DCS Remote Commander: Get into DCS on a budget

Wireless infrared command control of one Proto-Sound 2.0 or later locomotive is simple when a DCS Remote Commander is added to an existing layout. Just plug your power supply into the DCS Remote Commander receiver and connect the output wires from the receiver to your track lockon. The receiver can accept any power input (AC or DC) up to 20 volts and 8 amps. The infrared remote provides control for eight different functions — perfect for small and moderately sized layouts.



Z-560 56 Watt DC Power Supply
40-560 \$44.95

DCS Remote Commander Set
50-1033 \$59.95



Simply the Best Way

2. DCS Explorer

Use your smartphone or tablet to control your model railroad. Just connect the DCS Explorer to your track, plug in a separately sold power supply, download the free app and you're ready to run up to three Proto-Sound 2.0 or 3.0 locomotives on the same track at the same time! You'll have access to all the major Proto-Sound features from any Android or iOS smartphone or tablet.

Once the Explorer is configured, you can run trains with as many smart devices as you want. Multiple operators can control the same trains at the same time. The Explorer operates in stand-alone WiFi or home network modes.



DCS Explorer
Track Interface Unit
50-1035 \$149.95



Z-560 56 Watt DC Power Supply
40-560 \$44.95

FREE DCS APP

Download the free DCS app for your smart phone or tablet



Check Out The Video:
www.mthtrains.com/50-1035



DCS Explorer Operating Features

Locomotive Features

- Speed and Direction Control
- Horn/Whistle
- Bell
- Front Coupler Activation (if equipped)
- Rear Coupler Activation (if equipped)
- Smoke On/Off (if equipped)
- Headlight On/Off
- Locomotive Sound Volume
- Sound Mute
- Passenger Station/Freight Yard Sounds
- Doppler Effect
- Locomotive Factory Reset

Additional Features

- Up to 100' range
- Easily and quickly switch between locomotives
- Fast bi-directional communication
- Auto-programming of locomotives, no engine IDs to remember

Control locomotive lights, sounds, action

Run multiple trains: Control up to 3 trains on the same track at the same time

Use multiple controllers: Operate with multiple Apple and Android smartphones and tablets at the same time

Invite your friends: With our free App and their own smart device, they can run trains with you

Choose from nearly 7,800 locomotives: Run any M.T.H. Proto-Sound 2.0 or 3.0 engine ever built

Walk around: The DCS WiFi signal has up to 100' range, far greater than Bluetooth

Faster than Bluetooth: In addition to extended range, WiFi is much faster, allowing for seamless and fast switching between locomotives

to Run a Railroad™

3. Full DCS Digital Command System

The full DCS Digital Command System is an all-encompassing network of components that brings true interactive wireless control to a model railroad. Users can choose between a walk-around wireless remote control or an intuitive app residing on their own smart device to run multiple tracks, hundreds of trains and control switches and accessories. Bi-directional communication between locomotives and the system's TIU Track Interface Unit makes adding and programming locomotives simple and easy. No more ID numbers to remember and no complex icons to decipher. It's fast, it's easy and it's fun!



DCS WiFi Remote Control System (TIU and WIU)
50-1036 \$369.95



DCS WiFi Module (WIU)
50-1034 \$179.95



DCS Track Interface Unit (TIU)
50-1003 \$229.95



DCS Accessory Interface Unit (AIU)
50-1004 \$119.95
Operates switches and accessories



DCS Remote Control - Handheld Unit
50-1002 \$169.95

TIU/Barrel Jack Female Adapter Cable
50-1017 \$10.95

Transformer/Barrel Jack Male Adapter Cable
50-1037 \$10.95

6' Mini-to-Mini Cable
50-1009 \$9.95

12-Port Terminal Block
50-1014 \$27.95

24-Port Terminal Block
50-1020 \$37.95

Z-DC24 24-Watt Power Supply
50-240 \$17.95

DCS WiFi Companion Softcover Book, 2nd Edition
60-1412. \$34.95

Anatomy of an M.T.H. S Gauge Diesel

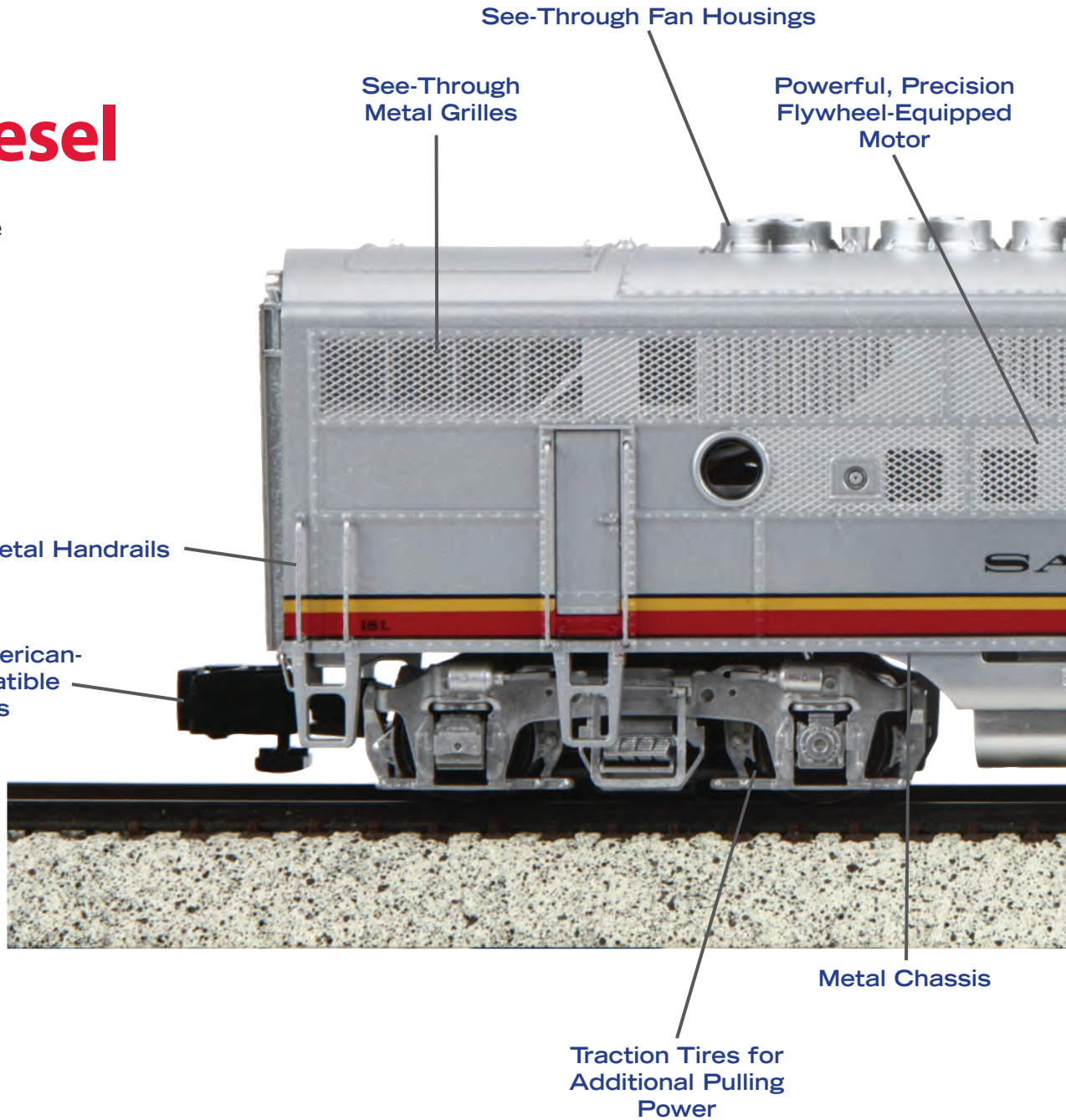
M.T.H. S Gauge diesels, like the Santa Fe F3 shown here, are as detailed as we can reasonably make them, and feature a large number of added-on details. Look closely at any M.T.H. S Gauge model and you'll find a combination of prototype accuracy, rugged construction, fun-to-operate features, and smooth, dependable performance that is unmatched by any other manufacturer.

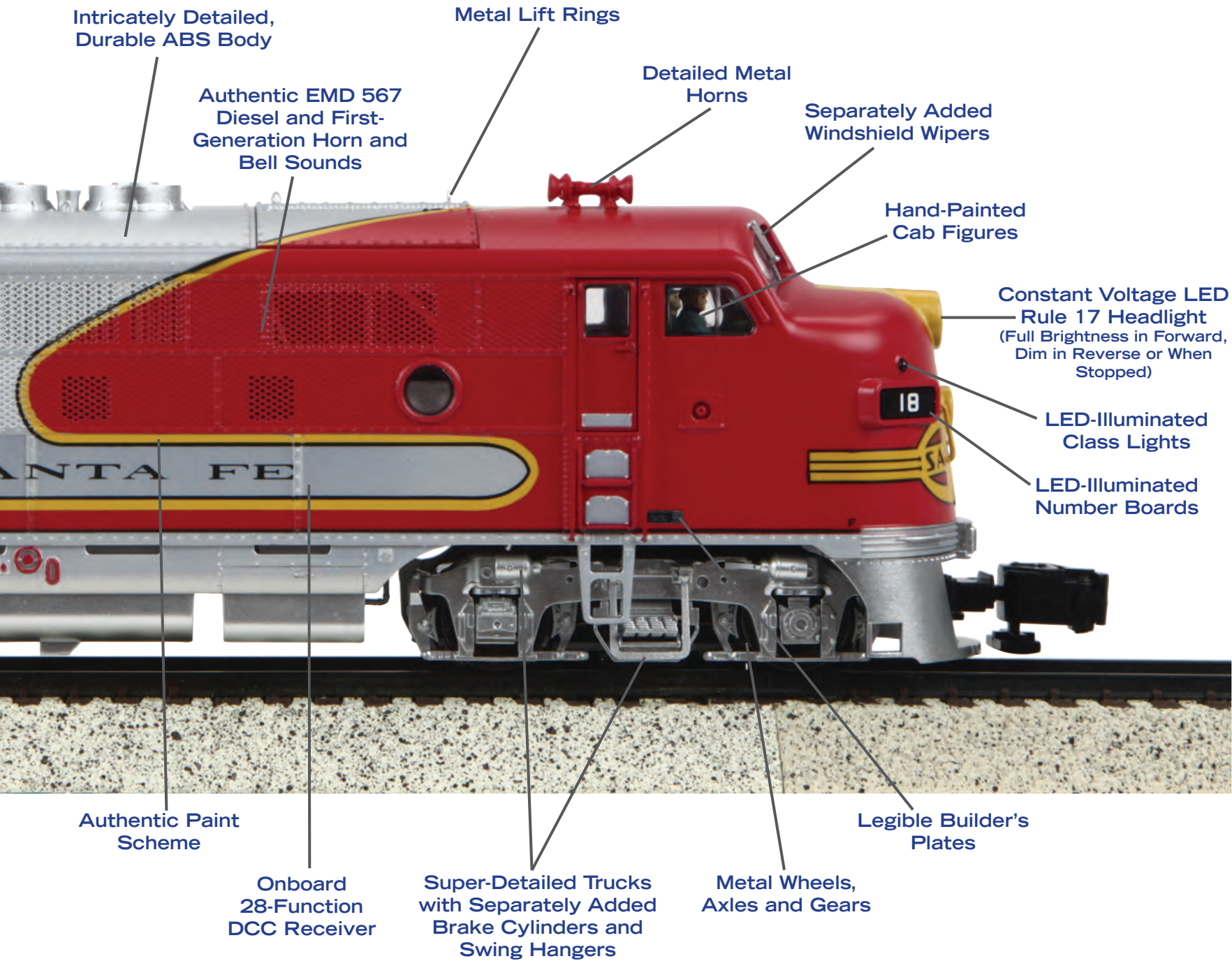


Separate Kadee®-Compatible S Scale Couplers Included



Separate Drop-In Code 110 Scale Wheel Sets Included





EMD F7



Electro-Motive Division's F7 was the zenith of the "covered wagon," or carbody-style diesel. With 3,849 units built between 1949 and 1953, the F7 was both the most popular carbody diesel and its last hurrah. By 1954, U.S. railroads had nearly stopped ordering F-units, preferring hood units like EMD's GP9 and Alco's RS-3. The side walkways of hood units offered better access for maintenance and better visibility for backup moves, making them truly universal locomotives useful for both mainline runs and road switching.

Externally, the F7 was very similar to the earlier F3. The key spotting features that distinguished an F7 were its stainless steel upper body grilles that replaced the "chicken wire" worn by most F3s, and the rooftop dynamic brake fan that — on units with dynamic brakes — replaced the F3's rectangular roof vents just behind the cab. Internally, the F7 was also an evolution of the F3. While engine power was the same at 1500 hp, new D27 traction motors allowed the F7 to handle a heavier load.

Capture the excitement of the first-generation diesel era with this powerful, superbly detailed, full-scale model. Throttle down to speeds as low as 3 scale miles per hour with any load, or roll along at the prototype's maximum speed of 102 mph with passenger gearing. Proto-Sound 3.0 offers authentic EMD 567 prime mover sounds; a first-generation diesel horn and bell; crew and station sounds; cruise control for steady speeds regardless of hills and curves; and the ability to operate under analog AC or DC, our own DCS command system, or NMRA-standard 28-function DCC control.

Added-on details include legible builder's plates, grab irons, rooftop lift rings, see-through side grilles and rooftop fan housings, windshield wipers, and our super-detailed Blomberg trucks with separately applied brake cylinders and swing hangers.

Features

- Intricately Detailed, Durable ABS Body
- Detailed Truck Sides, Pilots and Fuel Tank
- Authentic Paint Scheme
- Metal Chassis
- Metal Handrails and Horn
- Hand-Painted Cab Figures
- Metal Wheels, Axles and Gears
- (2) Operating S Gauge Couplers
- Supplied with (2) Optional Kadee-Compatible S Scale Couplers
- S Scale Kadee-Compatible Coupler Mounting Pads
- Supplied with Optional Drop-In Code 110 Scale Wheelsets
- Prototypical Rule 17 Lighting
- Directionally Controlled Constant Voltage LED Headlight
- LED-Illuminated Number Boards
- LED-Illuminated Class Lights
- Precision Flywheel-Equipped Motor
- All-Wheels-Driven Power Train
- Onboard DCC/DCS Decoder
- Locomotive Speed Control in Scale MPH Increments
- 1:64 Scale Proportions
- Proto-Sound 3.0 with the Digital Command System Featuring Passenger Station or Freight Yard Proto-Effects
- Unit Measures: 10 1/2" x 1 7/8" x 2 7/8"
- Operates On 20" Radius Curves



Southern Pacific - F7 B-Unit Diesel with Proto-Sound 3.0
 35-20055-1 Cab No. 8084 \$389.95 **ORDER NOW: \$289.95**
Southern Pacific - F7 B-Unit Diesel (Non-Powered)
 35-20053-3 Cab No. 8085 \$229.95 **ORDER NOW: \$174.95**

Southern Pacific - F7 A-Unit Diesel with Proto-Sound 3.0
 35-20053-1 Cab No. 6184 \$399.95 **ORDER NOW: \$299.95**
 35-20054-1 Cab No. 6185 \$399.95 **ORDER NOW: \$299.95**
Southern Pacific - F7 A-Unit Diesel (Non-Powered)
 35-20054-4 Cab No. 8182 \$249.95 **ORDER NOW: \$189.95**

Visit your local authorized M.T.H. Retailer or
www.mthSgaugetrains.com
 to purchase these offerings



Reading - F7 B-Unit Diesel with Proto-Sound 3.0
 35-20061-1 Cab No. 269 \$389.95 **ORDER NOW: \$289.95**
Reading - F7 B-Unit Diesel (Non-Powered)
 35-20059-3 Cab No. 271 \$229.95 **ORDER NOW: \$174.95**

Reading - F7 A-Unit Diesel with Proto-Sound 3.0
 35-20059-1 Cab No. 269 \$399.95 **ORDER NOW: \$299.95**
 35-20060-1 Cab No. 271 \$399.95 **ORDER NOW: \$299.95**
Reading - F7 A-Unit Diesel (Non-Powered)
 35-20060-4 Cab No. 284 \$249.95 **ORDER NOW: \$189.95**



EMD F7



Southern - F7 B-Unit Diesel with Proto-Sound 3.0

35-20067-1 Cab No. 4420 \$389.95 **ORDER NOW: \$289.95**

Southern - F7 B-Unit Diesel (Non-Powered)

35-20065-3 Cab No. 4422 \$229.95 **ORDER NOW: \$174.95**

Southern - F7 A-Unit Diesel with Proto-Sound 3.0

35-20065-1 Cab No. 4257 \$399.95 **ORDER NOW: \$299.95**

35-20066-1 Cab No. 4258 \$399.95 **ORDER NOW: \$299.95**

Southern - F7 A-Unit Diesel (Non-Powered)

35-20066-4 Cab No. 4262 \$249.95 **ORDER NOW: \$189.95**



Western Maryland - F7 B-Unit Diesel with Proto-Sound 3.0

35-20070-1 Cab No. 401 \$389.95 **ORDER NOW: \$289.95**

Western Maryland - F7 B-Unit Diesel (Non-Powered)

35-20068-3 Cab No. 404 \$229.95 **ORDER NOW: \$174.95**

Western Maryland - F7 A Unit Diesel with Proto-Sound 3.0

35-20068-1 Cab No. 62 \$399.95 **ORDER NOW: \$299.95**

35-20069-1 Cab No. 63 \$399.95 **ORDER NOW: \$299.95**

Western Maryland - F7 A-Unit Diesel (Non-Powered)

35-20069-4 Cab No. 65 \$249.95 **ORDER NOW: \$189.95**



Burlington - F7 B-Unit Diesel with Proto-Sound 3.0

35-20064-1 Cab No. 168B \$389.95 **ORDER NOW: \$289.95**

Burlington - F7 B-Unit Diesel (Non-Powered)

35-20062-3 Cab No. 169B \$229.95 **ORDER NOW: \$174.95**

Burlington - F7 A-Unit Diesel with Proto-Sound 3.0

35-20062-1 Cab No. 168A \$399.95 **ORDER NOW: \$299.95**

35-20063-1 Cab No. 169A \$399.95 **ORDER NOW: \$299.95**

Burlington - F7 A-Unit Diesel (Non-Powered)

35-20063-4 Cab No. 168C \$249.95 **ORDER NOW: \$189.95**



Chesapeake & Ohio - F7 B-Unit Diesel with Proto-Sound 3.0

35-20058-1 Cab No. 7509 \$389.95 **ORDER NOW: \$289.95**

Chesapeake & Ohio - F7 B-Unit Diesel (Non-Powered)

35-20056-3 Cab No. 7508 \$229.95 **ORDER NOW: \$174.95**

Chesapeake & Ohio - F7 A-Unit Diesel with Proto-Sound 3.0

35-20056-1 Cab No. 7017 \$399.95 **ORDER NOW: \$299.95**

35-20057-1 Cab No. 7016 \$399.95 **ORDER NOW: \$299.95**

Chesapeake & Ohio - F7 A-Unit Diesel (Non-Powered)

35-20057-4 Cab No. 7029 \$249.95 **ORDER NOW: \$189.95**

EMD NW2



While Electro-Motive's FT road diesel is celebrated as "the diesel that did it" — vanquished the steam engine from American railroads — the lowly switch engine had quietly started the diesel revolution decades before. Compared with the 0-4-0, 0-6-0 or 0-8-0 steamers they replaced, the new end-cab diesel switchers were cleaner and quieter, started up almost instantly, and offered 360-degree visibility in the chaos of the rail yards and industries where they worked — not hard for an engineer to get used to.

Introduced in 1939, the same year as the FT, the NW2 was the latest evolution of Electro-Motive's line of dependable, hard-working yard goats. The "N" in NW2 stood for nine hundred horsepower, the power output of the first Electro-Motive Corporation N-series switchers with Winton motors. The "W" indicated a welded frame.

Power increased to 1000 hp with the debut of the 12-cylinder NW2, the first N-series locomotive with EMC's new 567 diesel motor — the prime mover that would power nearly all of the most successful first-generation diesels. Within a few years, EMC and Winton Engine, which had been owned by GM since 1930, would become the Electro-Motive Division of General Motors. By the end of NW2 production in 1949, over 1100 engines had been sold in the United States and Canada, and the hardy N-series switchers were ubiquitous from coast to coast.

The NW2 joins our S Gauge lineup for the first time in 2019, offering everything you need in a hard-working switcher: precision flywheel-equipped motor, metal chassis and traction tires for great pulling power; cruise control for steady speeds down to 3 scale

miles per hour; authentic EMD 567 prime mover sounds; and superb detailing that includes separately applied door handles, air brake piping and metal handrails.

Features

- Intricately Detailed, Durable ABS Body
- Detailed Truck Sides, Pilots and Fuel Tank
- Authentic Paint Scheme
- Metal Chassis
- Metal Handrails, Horn, Bell and Door Handles
- Hand-Painted Cab Figures
- Metal Wheels, Axles and Gears
- (2) Operating S Gauge Couplers
- Supplied with (2) Optional Kadee-Compatible S Scale Couplers
- S Scale Kadee-Compatible Coupler Mounting Pads
- Supplied with Optional Drop-In Code 110 Scale Wheelsets
- Prototypical Rule 17 Lighting
- Directionally Controlled Constant Voltage LED Headlight
- LED-Illuminated Number Boards
- Precision Flywheel-Equipped Motor
- All-Wheels-Driven Power Train
- Onboard DCC/DCS Decoder
- Locomotive Speed Control in Scale MPH Increments
- 1:64 Scale Proportions
- Proto-Sound 3.0 with the Digital Command System Featuring Freight Yard Proto-Effects
- Unit Measures:
 - 9 1/4" X 1 15/16" X 2 3/4"
- Operates On 20" Radius Curves



Union Pacific - NW2 Diesel Switcher with Proto-Sound 3.0

| | | | |
|------------|--------------|----------|----------------------------|
| 35-20041-1 | Cab No. 1081 | \$399.95 | ORDER NOW: \$299.95 |
| 35-20042-1 | Cab No. 1085 | \$399.95 | ORDER NOW: \$299.95 |



Santa Fe (Yellow Bonnet) - NW2 Diesel Switcher with Proto-Sound 3.0

| | | | |
|------------|--------------|----------|----------------------------|
| 35-20043-1 | Cab No. 1215 | \$399.95 | ORDER NOW: \$299.95 |
| 35-20044-1 | Cab No. 1217 | \$399.95 | ORDER NOW: \$299.95 |



Baltimore & Ohio - NW2 Diesel Switcher with Proto-Sound 3.0

| | | | |
|------------|-------------|----------|----------------------------|
| 35-20045-1 | Cab No. 558 | \$399.95 | ORDER NOW: \$299.95 |
| 35-20046-1 | Cab No. 559 | \$399.95 | ORDER NOW: \$299.95 |



Nickel Plate Road - NW2 Diesel Switcher with Proto-Sound 3.0

| | | | |
|------------|------------|----------|----------------------------|
| 35-20047-1 | Cab No. 19 | \$399.95 | ORDER NOW: \$299.95 |
| 35-20048-1 | Cab No. 22 | \$399.95 | ORDER NOW: \$299.95 |



Lehigh Valley - NW2 Diesel Switcher with Proto-Sound 3.0

| | | | |
|------------|-------------|----------|----------------------------|
| 35-20049-1 | Cab No. 124 | \$399.95 | ORDER NOW: \$299.95 |
| 35-20050-1 | Cab No. 127 | \$399.95 | ORDER NOW: \$299.95 |



CSX - NW2 Diesel Switcher with Proto-Sound 3.0

| | | | |
|------------|--------------|----------|----------------------------|
| 35-20051-1 | Cab No. 5065 | \$399.95 | ORDER NOW: \$299.95 |
| 35-20052-1 | Cab No. 5066 | \$399.95 | ORDER NOW: \$299.95 |

EMD SW8



With the 1950 introduction of the SW8 and SW9, EMD cataloged end-cab switchers in three convenient sizes: small (the 6 cylinder, 600 hp SW1), medium (the 8 cylinder, 800 hp SW8) and large (the 12 cylinder, 1200 hp SW9).

All three engines shared the same 44' frame. While the SW1 was distinguished by its shorter hood and large "porches" on each end, its more powerful siblings looked nearly the same, except for the single exhaust stack on the SW8 and dual stacks on the SW9. Contrary to popular belief, the "SW" in the model names did not stand for switcher. "S" stood for six hundred, the horsepower rating of the initial model, and "W" stood for welded frame, in contrast with the cast steel frames of earlier Electro-Motive switchers.

Weighing nine tons less than the SW9, the SW8 proved suitable for places where its

larger brother couldn't go, especially on industrial properties and short lines. By the end of production in 1954, 309 SW8s had been sold to 48 U.S. class 1 railroads, short lines and industrial firms. An additional 65 engines were built by GM Diesel Canada for 10 Canadian operators.

The largest single purchase of SW8s, however — 41 locomotives — was by the US Army during the Korean War. The Korean National Railroad (KNR), built largely by the invading Japanese in WWII, fortunately used the same track gauge and knuckle couplers as American railroads. Thus the SW8s, the first diesels on the KNR, proved invaluable in transporting men and materiel from the staging areas at Pusan harbor toward the front lines and bringing wounded soldiers back to Pusan hospitals. Most of the loco-

motives were repatriated after the war and later served on stateside military bases. Two of the ex-Army units are still operating today at the Heart of Dixie Railroad Museum in Calera, Alabama.

Features

- Intricately Detailed, Durable ABS Body
- Detailed Truck Sides, Pilots and Fuel Tank
- Authentic Paint Scheme
- Metal Chassis
- Metal Handrails, Horn and Bell
- Hand-Painted Cab Figures
- Metal Wheels, Axles and Gears
- (2) Operating S Gauge Couplers
- Supplied with (2) Optional Kadee-Compatible S Scale Couplers
- S Scale Kadee-Compatible Coupler Mounting Pads
- Supplied with Optional Drop-In Code 110 Scale Wheelsets
- Prototypical Rule 17 Lighting
- Directionally Controlled Constant Voltage LED Headlight
- LED-Illuminated Number Boards
- Precision Flywheel-Equipped Motor
- All-Wheels-Driven Power Train
- Onboard DCC/DCS Decoder
- Locomotive Speed Control in Scale MPH Increments
- 1:64 Scale Proportions
- Proto-Sound 3.0 with the Digital Command System Featuring Freight Yard Proto-Effects
- Unit Measures:
 - 9 1/4" X 1 15/16" X 2 3/4"
- Operates On 20" Radius Curves



New York Central - SW8 Diesel Switcher with Proto-Sound 3.0
 35-20031-1 Cab No. 8608 \$399.95 **ORDER NOW: \$299.95**
 35-20032-1 Cab No. 8626 \$399.95 **ORDER NOW: \$299.95**



EMD Demonstrator - SW8 Diesel Switcher with Proto-Sound 3.0
 35-20029-1 Cab No. 800 \$399.95 **ORDER NOW: \$299.95**
 35-20030-1 Cab No. 801 \$399.95 **ORDER NOW: \$299.95**



Atlantic Coast Line - SW8 Diesel Switcher with Proto-Sound 3.0
 35-20033-1 Cab No. 50 \$399.95 **ORDER NOW: \$299.95**
 35-20034-1 Cab No. 57 \$399.95 **ORDER NOW: \$299.95**



Southern Pacific - SW8 Diesel Switcher with Proto-Sound 3.0
 35-20035-1 Cab No. 4600 \$399.95 **ORDER NOW: \$299.95**
 35-20036-1 Cab No. 4602 \$399.95 **ORDER NOW: \$299.95**



Erie Lackawanna - SW8 Diesel Switcher with Proto-Sound 3.0
 35-20037-1 Cab No. 364 \$399.95 **ORDER NOW: \$299.95**
 35-20038-1 Cab No. 369 \$399.95 **ORDER NOW: \$299.95**



Great Northern - SW8 Diesel Switcher with Proto-Sound 3.0
 35-20039-1 Cab No. 98 \$399.95 **ORDER NOW: \$299.95**
 35-20040-1 Cab No. 99 \$399.95 **ORDER NOW: \$299.95**

Rebuilt Steel Box Car



Nickel Plate Road - Rebuilt Steel Box Car, Car No. 25336

- 35-74027 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
- 35-74043 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
- Nickel Plate Road - Rebuilt Steel Box Car, Car No. 25338
- 35-74028 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
- 35-74044 Scale Wheels \$59.95 **ORDER NOW: \$49.95**



Visit your local authorized
M.T.H. Retailer or
www.mthSgaugetrains.com
to purchase these offerings



Delaware & Hudson (I Love NY) - Rebuilt Steel Box Car, Car No. 50074

- 35-74029 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
- 35-74045 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
- Delaware & Hudson (I Love NY) - Rebuilt Steel Box Car, Car No. 50045
- 35-74030 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
- 35-74046 Scale Wheels \$59.95 **ORDER NOW: \$49.95**

During and after World War I, American railroads took delivery of tens of thousands of boxcars built to USRA designs: single or double-sheathed wooden sides, wooden doors, and steel ends, roofs and underframes. By the late 1920s, however, all-steel cars had become the norm, although new car construction slowed to a crawl during the Depression.

A cheaper alternative was rebuilding older USRA cars, replacing the wooden sides and doors with steel and re-using the existing underframe, ends, and/or roofs. Brake systems were also upgraded, from the earlier K-brake to the more modern AB brake system. As World War II loomed and traffic began to pick up, railroads upgraded thousands of USRA boxcars to all-steel construction, usually doing the work in their own shops. Rebuilding programs continued through and after the war, and steel rebuilt cars were a common sight into the late 1950s, with many serving into the following decade.

While rebuilt car details often differed from railroad to railroad, a spotting feature common to most of the cars was the sill brackets added to the existing underframe side sills — a feature replicated on these M.T.H. models. These sill brackets supported new steel sides that were spaced farther apart than the old wooden sides, making a wider car with greater carrying capacity.



Rutland - Rebuilt Steel Box Car, Car No. 305

- 35-74039 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
- 35-74055 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
- Rutland - Rebuilt Steel Box Car, Car No. 309
- 35-74040 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
- 35-74056 Scale Wheels \$59.95 **ORDER NOW: \$49.95**



Pittsburgh & Lake Erie - Rebuilt Steel Box Car, Car No. 83821

- 35-74031 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
- 35-74047 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
- Pittsburgh & Lake Erie - Rebuilt Steel Box Car, Car No. 83825
- 35-74032 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
- 35-74048 Scale Wheels \$59.95 **ORDER NOW: \$49.95**



Features

- Intricately Detailed, Durable ABS Body
- Opening Doors
- Separate Metal Grab Irons
- Detailed Brake System
- Die-Cast Sprung Metal Trucks
- Metal Wheels and Axles
- Hi-Rail Wheel Models Supplied with American Flyer-Compatible Wheels and Operating Couplers
- Scale Wheel Models Supplied with Code 110 Scale Wheels and Kadee-Compatible S Scale Couplers
- S Scale Kadee-Compatible Coupler Mounting Pads
- 1:64 Scale Dimensions
- Unit Measures: 8 13/16" x 1 7/8" x 2 9/16"
- Operates on 20" Radius Curves

Great Northern - Rebuilt Steel Box Car, Car No. 27017

- 35-74033 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-74049 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Great Northern - Rebuilt Steel Box Car, Car No. 27010
 35-74034 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-74050 Scale Wheels \$59.95 **ORDER NOW: \$49.95**

New Haven - Rebuilt Steel Box Car, Car No. 32236

- 35-74035 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-74051 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 New Haven - Rebuilt Steel Box Car, Car No. 32232
 35-74036 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-74052 Scale Wheels \$59.95 **ORDER NOW: \$49.95**



Southern Pacific - Rebuilt Steel Box Car, Car No. 97650

- 35-74041 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-74057 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Southern Pacific - Rebuilt Steel Box Car, Car No. 97663
 35-74042 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-74058 Scale Wheels \$59.95 **ORDER NOW: \$49.95**

Richmond Fredericksburg & Potomac - Rebuilt Steel Box Car, Car No. 1136

- 35-74037 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-74053 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Richmond Fredericksburg & Potomac - Rebuilt Steel Box Car, Car No. 1132
 35-74038 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-74054 Scale Wheels \$59.95 **ORDER NOW: \$49.95**



Christmas - Rebuilt Steel Box Car

- 35-74001 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**

2-Bay Fishbelly Hopper



Norfolk & Western - 2-Bay Fishbelly Hopper, Car No. 22104
 35-75054 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75070 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Norfolk & Western - 2-Bay Fishbelly Hopper, Car No. 22109
 35-75055 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75071 Scale Wheels \$59.95 **ORDER NOW: \$49.95**

New Tooling!



Chesapeake & Ohio - 2-Bay Fishbelly Hopper, Car No. 300400
 35-75056 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75072 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Chesapeake & Ohio - 2-Bay Fishbelly Hopper, Car No. 300419
 35-75057 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75073 Scale Wheels \$59.95 **ORDER NOW: \$49.95**



Jersey Central - 2-Bay Fishbelly Hopper, Car No. 60714
 35-75058 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75074 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Jersey Central - 2-Bay Fishbelly Hopper, Car No. 60716
 35-75059 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75075 Scale Wheels \$59.95 **ORDER NOW: \$49.95**



Reading - 2-Bay Fishbelly Hopper, Car No. 67046
 35-75060 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75076 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Reading - 2-Bay Fishbelly Hopper, Car No. 67043
 35-75061 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75077 Scale Wheels \$59.95 **ORDER NOW: \$49.95**

Unlike equipment that carried a variety of loads, like boxcars, flatcars, and gondolas, the “sawtooth” style coal hopper was designed in the late 1800s specifically for one purpose: transporting coal from mines to customers. Its capacity matched the volume of coal that a pair of typical freight trucks could carry — about 50 tons at the time the prototypes for our model were built. And its slope sheets — the angled floors at either end of the car — were set at precisely the minimum angle at which coal would flow easily from its bottom doors, about 42 degrees.

Over the years, car builders applied various tweaks to the basic hopper design to squeeze out a few more cubic feet of capacity. Our model represents one popular tweak applied from 1937 through World War II: the “fishbelly” configuration at the bottom of the sides that lowered the car floor between the trucks. The taller ends on our model, known as heap shields or peaked ends, were designed to increase capacity as well.

This superbly detailed model appears for the first time in S Gauge in 2019. While the tooling was created by the S Helper Service team, the original owners retired before making the first production run.



Akron Canton & Youngstown - 2-Bay Fishbelly Hopper, Car No. 6023
 35-75062 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75078 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Akron Canton & Youngstown - 2-Bay Fishbelly Hopper, Car No. 6025
 35-75063 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75079 Scale Wheels \$59.95 **ORDER NOW: \$49.95**

New Tooling!



Lehigh Valley - 2-Bay Fishbelly Hopper, Car No. 25390
 35-75064 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75080 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Lehigh Valley - 2-Bay Fishbelly Hopper, Car No. 25384
 35-75065 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75081 Scale Wheels \$59.95 **ORDER NOW: \$49.95**

Features

- Intricately Detailed, Durable ABS Body
- Accurate Paint Scheme
- Die-Cast Sprung Metal Trucks
- Hi-Rail Wheel Models Supplied with American Flyer-Compatible Wheels and Operating Couplers
- Scale Wheel Models Supplied with Code 110 Scale Wheels and Kadee-Compatible S Scale Couplers
- S Scale Kadee-Compatible Coupler Mounting Pads
- Detailed Brake System
- Separate Metal Handrails
- 1:64 Scale Dimensions
- Unit Measures: 7 1/8" x 1 15/16" x 2 9/16"
- Operates On 20" Radius Curves



Western Maryland - 2-Bay Fishbelly Hopper, Car No. 10905
 35-75068 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75084 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Western Maryland - 2-Bay Fishbelly Hopper, Car No. 10908
 35-75069 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75085 Scale Wheels \$59.95 **ORDER NOW: \$49.95**



Baltimore & Ohio - 2-Bay Fishbelly Hopper, Car No. 3665
 35-75066 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75082 Scale Wheels \$59.95 **ORDER NOW: \$49.95**
 Baltimore & Ohio - 2-Bay Fishbelly Hopper, Car No. 3669
 35-75067 Hi-Rail Wheels \$59.95 **ORDER NOW: \$49.95**
 35-75083 Scale Wheels \$59.95 **ORDER NOW: \$49.95**

PS-2 Covered Hopper

Until the advent of the covered hopper, bulk commodities like grain and cement were usually packed in sacks and loaded into box cars. Loading and unloading was a tedious, time-consuming, labor-intensive affair. In the 1930s, responding to shipper demand for a more efficient process, a few railroads took the basic coal hopper design and added a roof with loading hatches, enabling bulk commodities to be loaded from the top and unloaded from the bottom.

The Pennsylvania Railroad's H30 was one of the first of these pioneering covered hoppers to be built in quantity, starting in 1935. But it wasn't until two decades later that a mass-produced covered hopper took the market by storm. Pullman-Standard, following on the success of its PS-1 boxcar, introduced the PS-2 70-ton covered hopper in 1953. Like the PS-1, the PS-2 was a runaway success, finding a place on the rosters of most North American railroads and a large number of manufacturing firms.

The PS-2's all-welded construction did a great job of keeping commodities clean and dry, from grain to cement, soap flakes, salt, sand, and carbon black. In theory the cars could haul a different commodity on each trip. But the necessity of thoroughly cleaning the interior when switching commodities meant that most cars in fact worked in dedicated service hauling a single type of cargo.

Visit your local authorized M.T.H. Retailer or
www.mthSgauge trains.com
 to purchase these offerings



Boston & Maine - PS-2 Covered Hopper
 35-75044 Car No. 5520 \$59.95 **ORDER NOW: \$49.95**
 35-75045 Car No. 5525 \$59.95 **ORDER NOW: \$49.95**



Baltimore & Ohio - PS-2 Covered Hopper
 35-75040 Car No. 600154 \$59.95 **ORDER NOW: \$49.95**
 35-75041 Car No. 600158 \$59.95 **ORDER NOW: \$49.95**



Duluth Missabe & Iron Range - PS-2 Covered Hopper
 35-75038 Car No. 4983 \$59.95 **ORDER NOW: \$49.95**
 35-75039 Car No. 4980 \$59.95 **ORDER NOW: \$49.95**



Western Maryland - PS-2 Covered Hopper
 35-75048 Car No. 5840 \$59.95 **ORDER NOW: \$49.95**
 35-75049 Car No. 5844 \$59.95 **ORDER NOW: \$49.95**



New Haven - PS-2 Covered Hopper
 35-75052 Car No. 117036 \$59.95 **ORDER NOW: \$49.95**
 35-75053 Car No. 117032 \$59.95 **ORDER NOW: \$49.95**



Pennsylvania - PS-2 Covered Hopper
 35-75050 Car No. 257829 \$59.95 **ORDER NOW: \$49.95**
 35-75051 Car No. 257820 \$59.95 **ORDER NOW: \$49.95**

Features

- Intricately Detailed Durable ABS Body
- Separate Metal Handrails and Grab Irons
- Photo-Etched Roof Walk
- Detailed AB Brake System
- Die-Cast Sprung Metal Trucks
- Metal Wheels and Axles
- American Flyer-Compatible Wheels and Couplers
- S Scale Kadee-Compatible Coupler Mounting Pads
- 1:64 Scale Dimensions
- Measures: 7 1/8" x 1 15/16" x 2 9/16"
- Operates on 20" Radius Curves



Union Pacific - PS-2 Covered Hopper
 35-75046 Car No. 11748 \$59.95 **ORDER NOW: \$49.95**
 35-75047 Car No. 11750 \$59.95 **ORDER NOW: \$49.95**



Norfolk & Western - PS-2 Covered Hopper
 35-75042 Car No. 71225 \$59.95 **ORDER NOW: \$49.95**
 35-75043 Car No. 71220 \$59.95 **ORDER NOW: \$49.95**

Extended Vision Caboose

Before railroads, “caboose” referred to a small cook-house on the deck of a sailing ship. Nobody knows for sure, but it was likely the 1850s before the first railroad caboose gave a train crew shelter from the weather. The Civil War era marked the emergence of boxcarlike cabin cars or conductor’s cars with side and perhaps end doors, windows, a heating and cooking stove, bunks, and roof lanterns to mark the end of the train.

Management often resisted providing such creature comforts to crews, and it would be well into the 1870s before cabooses were widespread on American trains. And although the cupola, known then as a “lookout” or “observatory,” first appeared during the Civil War era, flat-roofed cabooses outnumbered cabin cars with cupolas well into the 1880s. By the early 20th century, however, the cupola caboose had attained its final shape, one it would keep until cabooses became extinct in the 1980s.

But while cupola cabooses remained pretty much the same, the freight cars in front of them were changing, becoming ever longer and taller as well. By the end of World War II, taller cars were making it harder and harder for the crewman riding the cupola to do his job: keep an eye on the train ahead. One solution, of course, was the bay window caboose. Another, more popular innovation was the extended vision, or wide vision caboose, which combined the extra width of a bay window with the height advantage of a cupola.

Our model depicts the extended vision caboose introduced by International Car Company in 1953 and produced for two decades, which was rostered by railroads from coast to coast. Like diesels and other modern freight cars, this widely owned caboose was part of the postwar shift away from customized, railroad-specific locos and cars toward standardized designs produced in large quantities on efficient assembly lines.



Chesapeake & Ohio - Extended Vision Caboose, Car No. 3121
 35-77001 Hi-Rail Wheels \$69.95 **ORDER NOW: \$56.95**
 35-77009 Scale Wheels \$69.95 **ORDER NOW: \$56.95**



Burlington - Extended Vision Caboose, Car No. 13633
 35-77002 Hi-Rail Wheels \$69.95 **ORDER NOW: \$56.95**
 35-77010 Scale Wheels \$69.95 **ORDER NOW: \$56.95**



Great Northern - Extended Vision Caboose, Car No. X104
 35-77003 Hi-Rail Wheels \$69.95 **ORDER NOW: \$56.95**
 35-77011 Scale Wheels \$69.95 **ORDER NOW: \$56.95**



Reading - Extended Vision Caboose, Car No. 94110
 35-77005 Hi-Rail Wheels \$69.95 **ORDER NOW: \$56.95**
 35-77013 Scale Wheels \$69.95 **ORDER NOW: \$56.95**



Missouri-Kansas-Texas (Happy Birthday America 1976) - Extended Vision Caboose, Car No. 76
 35-77006 Hi-Rail Wheels \$69.95 **ORDER NOW: \$56.95**
 35-77014 Scale Wheels \$69.95 **ORDER NOW: \$56.95**



CSX - Extended Vision Caboose, Car No. 21195
 35-77004 Hi-Rail Wheels \$69.95 **ORDER NOW: \$56.95**
 35-77012 Scale Wheels \$69.95 **ORDER NOW: \$56.95**



Santa Fe - Extended Vision Caboose, Car No. 999538
 35-77008 Hi-Rail Wheels \$69.95 **ORDER NOW: \$56.95**
 35-77016 Scale Wheels \$69.95 **ORDER NOW: \$56.95**



Chicago & North Western - Extended Vision Caboose, Car No. 12559
 35-77007 Hi-Rail Wheels \$69.95 **ORDER NOW: \$56.95**
 35-77015 Scale Wheels \$69.95 **ORDER NOW: \$56.95**

Features

- Intricately Detailed, Durable ABS Body
- Authentic Paint Scheme
- Die-Cast Sprung Metal Trucks
- Metal Wheels and Axles
- Hi-Rail Wheel Models Supplied with American Flyer-Compatible Wheels and Operating Couplers
- Scale Wheel Models Supplied with Code 110 Scale Wheels and Kadee-Compatible S Scale Couplers
- S Scale Kadee-Compatible Coupler Mounting Pads
- Metal Handrails and Ladders
- Photo-Etched See-Through Metal Roof Walk
- Cupola Windshield Wipers
- Hand-Painted Brakeman Figure
- Detailed, LED-Illuminated Interior
- LED-Illuminated Marker Lights
- Detailed Brake System
- 1:64 Scale Dimensions
- Unit Measures: 8 13/16" x 1 7/8" x 2 9/16"
- Operates On 20" Radius Curves

40' Woodsided Reefer



Fulton Market - 40' Woodsided Reefer
35-78004 Car No. 10402 \$59.95 **ORDER NOW: \$49.95**



Jelke Good Luck Margarine - 40' Woodsided Reefer
35-78005 Car No. 10803 \$59.95 **ORDER NOW: \$49.95**
35-78006 Car No. 10805 \$59.95 **ORDER NOW: \$49.95**

Features

- Intricately Detailed, Durable ABS Body
- Opening Roof Hatches
- Separate Metal Grab Irons
- Detailed Metal Side and End Ladders
- Detailed KC Brake System
- Die-Cast Sprung Metal Trucks
- Metal Wheels and Axles
- American Flyer-Compatible Couplers
- S Scale Kadee-Compatible Coupler Mounting Pads
- 1:64 Scale Dimensions
- Unit Measures: 8 7/8" x 1 3/4" x 2 1/2"
- Operates on 20" Radius Curves

Flat Car with 45' Trailer



Seaboard - Flat Car w/45' Trailer
35-76016 Car No. 47128 \$69.95 **ORDER NOW: \$56.95**
35-76017 Car No. 47126 \$69.95 **ORDER NOW: \$56.95**
Seaboard - Flat Car w/45' Trailer (Scale Wheels)
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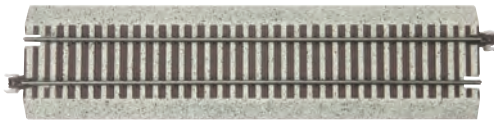


Western Maryland - Flat Car w/45' Trailer
35-76006 Car No. 2620 \$69.95 **ORDER NOW: \$56.95**
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Western Maryland - Flat Car w/45' Trailer (Scale Wheels)
35-76022 Car No. 2620 \$69.95 **ORDER NOW: \$56.95**
35-76023 Car No. 2622 \$69.95 **ORDER NOW: \$56.95**

Features

- Intricately Detailed, Durable ABS Body
- Separate Metal Grab Irons
- Detailed Brake System
- Die-Cast Sprung Metal Trucks
- Metal Wheels and Axles
- S Scale Kadee Compatible Coupler Mounting Pads
- Removable Trailer
- 1:64 Scale Dimensions
- Unit Measures: 11 1/4" X 1 15/16" X 2 3/8"
- Operates On 20" Radius Curves

Track & Accessories

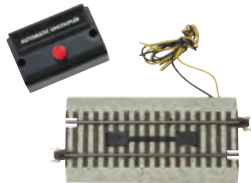


S-Trax - 5" Straight (6-Pack)
35-1003 \$29.95
S-Trax - 10" Straight (6-pack)
35-1002 \$34.95
S-Trax - 15" Straight (6-pack)
35-1001 \$39.95



S-Trax - 20" Radius Curve Track 30 Degree Full Section (6-Pack)
35-1006 \$34.95
S-Trax - 25" Radius Curve Track 30 Degree Full Section (6-Pack)
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S-Trax - 30" Radius Curve Track 30 Degree Full Section (6-Pack)
35-1010 \$39.95

**12 curve sections
make a full circle**



S-Trax - 5" Straight
with Uncoupler
35-1022
\$24.95

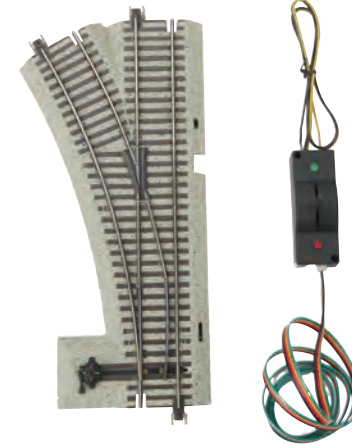


S-Trax - 5" Straight with
Accessory Button
35-1023 \$26.95

**Activates operating features
on American Flyer freight cars**

S-Trax - Switch Controller With 40" Harness
Extension Wire Set
35-1020 \$14.95
S-Trax - 40" Harness Extension Wire Set
35-1024 \$4.99
Railjoiner For Flex Track (36-Pack)
35-1014 \$7.95
Railjoiner For STrax (36-Pack)
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Railjoiner Adapter For American Flyer Track (36-Pack)
35-1016 \$9.95
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35-1013 \$9.95
Railjoiner Feeder Wire For STrax (12-Pack)
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S-Trax - #3 Switch with Remote (Left)
35-1019 \$69.95
S-Trax - #3 Switch with Remote (Right)
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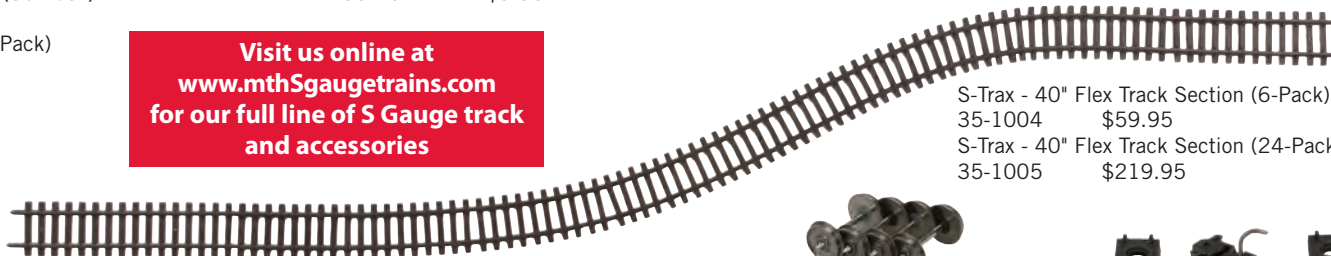


No. 23774 Floodlight Tower
35-90004 \$119.95
Measures: 4 7/8" x 6" x 13 3/4"

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for our full line of S Gauge track
and accessories**



S-Trax - 5" Track
with Bumper
35-1021 \$21.95



S-Trax - 40" Flex Track Section (6-Pack)
35-1004 \$59.95
S-Trax - 40" Flex Track Section (24-Pack)
35-1005 \$219.95



AAR 70-Ton Friction Bearing Truck Set w/Hi-Rail Wheels
35-1101 \$19.95
AAR 70-Ton Friction Bearing Truck Set w/Scale Wheels
35-1102 \$19.95



Code 110 33" Insulated
Scale Wheel Set 4-Pack
35-1109 \$12.95



Kadee-Compatible Freight
Car Scale Coupler Set
35-1110 \$6.95



AAR Type Y Truck Set w/Hi-Rail Wheels
35-1103 \$19.95
AAR Type Y Truck Set w/Scale Wheels
35-1104 \$19.95



American Flyer-Compatible
Freight Car Coupler Set
35-1107 \$4.95

**Gabe the Lamplighter climbs
the tower, turns on the lights
and slides down**



Barber S-2 70 Ton Roller Bearing Truck Set w/Hi-Rail Wheels
35-1105 \$19.95
Barber S-2 70 Ton Roller Bearing Truck Set w/Scale Wheels
35-1106 \$19.95



33" Insulated Hi-Rail
Wheel Set 4-Pack
35-1108 \$12.95



Lamplighter
35-90006 \$179.95
Measures: 4 7/8" x 6" x 13 3/4"

No Matter How You Run Them

Proto-Sound 3.0 locomotives have more features than any engine you've ever owned

Analog AC or DC

With just an ordinary DC transformer, you get operating features unmatched by any other HO locomotives:

- Prototypical Rule 17 lighting: the headlight dims automatically when the engine comes to a stop, and the rear headlight illuminates for backup moves
- Synchronized puffing smoke and chuffing sounds: billowing smoke correctly synchronized with the drivers at four puffs per revolution; at rest, smoke wafts out of the stack steadily, just like the prototype. As with smoke, chuffs are correctly timed, in sync with smoke puffs at four per driver revolution
- Squealing brakes: slow down quickly and hear the squeal of a brake application
- Idle sounds: at track voltages between about 6-8 volts, your engine idles and plays random crew and maintenance sounds — like crew conversations with a tower operator
- Speed control: set any speed and your engine maintains it, regardless of load, hills, or curves
- Automatically smooth reversing: flip your transformer's reversing switch at any speed and watch your engine gradually come to a stop, turn on the appropriate directional lighting, and smoothly accelerate up to speed in the opposite direction

Z-DC300 30 Watt
DC Transformer
40-300 \$89.95



DCC

If you operate with Digital Command Control (DCC), you'll find Proto-Sound 3.0 locomotives take full advantage of the capabilities of DCC and are completely compatible with all DCC motive power. In fact, Proto-Sound engines are already equipped to use DCC functions 0 through 28, to take full advantage of newer DCC controllers that use the full range of NMRA standard functions.

With today's standard DCC controllers, your Proto-Sound 3.0 engine has all the features available with analog DC and these additional functions activated by your controller:

- Full command control
- Bell: listen for the realistic last half ring when you release the bell button
- Whistle/Horn: depending on how long you blow the whistle or horn, you'll hear one of several different end signatures
- PFA (Passenger and Freight Announcements): passenger engines offer a complete passenger station arrival and departure sequence that you can activate on command; freight engines allow you to play a symphony of freight terminal sounds
- Startup and shut down sounds
- Volume control
- Sound mute
- Smoke on/off
- Lighting on/off
- Plus 19 others



(see page 3 for the complete list)

DCS Remote Commander

The DCS Remote Commander is an inexpensive wireless solution capable of accessing the most popular command control functions programmed into Proto-Sound locomotives. The DCS Remote Commander handheld controller features clearly labeled, one-button control of 9 engine functions. There are no function keys or special codes to remember.



DCS Remote Commander Set
50-1033 \$59.95

Access the locomotive whistle or horn, bell, smoke, direction and speed with just a single button push. You can also access Passenger Station or Freight Yard Proto-Effects, engine startup and shutdown sounds and control the front or rear Proto-Couplers with this lightweight, easy-to-use remote.

Adding a DCS Remote Commander to your existing layout is simple: just plug your power supply into the DCS Remote Commander receiver and the output wires from the receiver to your track lockon. The DCS Remote Commander can accept any power input (AC or DC) up to 20 volts and 8 amps, making it a perfect choice for small and moderately sized layouts.



Z-560 56 Watt
DC Power Supply
40-560 \$44.95

Features

- Speed adjustment in one-scale-mile-per hour steps
- Volume Control
- Smoke on/off
- Front & Rear Proto-Coupler Control
- Engine Start-up & Shutdown Sounds
- Passenger Station and Freight Yard Sounds
- Whistle/Horn Control
- Bell On/Off
- Locomotive Direction Control
- Wireless Communication With DCS Remote Commander Receiver
- LED Power On Lamp (Receiver Only)
- AC or DC Power Input
- Remote Requires (2) AA Batteries (not included)
- Unit Measures: 6" Long

DCS Remote Control System

Choose to run your entire layout from a wireless handheld — or several or even your smart phone or tablet. There are three different DCS Remote Control configurations to choose from, any of which will unlock a wide range of exclusive and fun Proto-Sound 3.0 functions found in your M.T.H. S Gauge locomotives. With a DCS remote control system, you can operate up to 99

Proto-Sound 3.0 engines in command mode at the same time on the same track. Build lashups, access Proto-Sound Proto Effects and customize locomotive settings with just a touch of a button or a swipe of a touch screen. Add an optional Accessory Interface Unit (AIU) and the same handheld or smart device can control hundreds of switches or accessories. For group operating

sessions, equip each guest with their own full-featured handheld or let them use their own smartphone or tablet through your layout's Wi-Fi interface unit.

*The DCS Remote Control System is not compatible with DCC systems.

DCS Wi-Fi

Use your smartphone or tablet to control your model railroad. Just connect the DCS WIU to the DCS TIU, download the free app and you're running your layout with modern day wireless control.

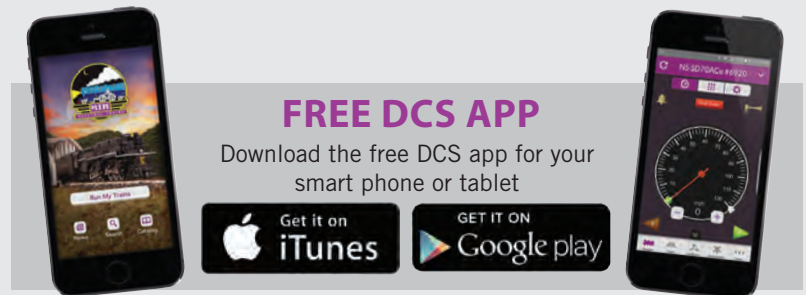
Take advantage of your smart device's full-color touch screen and see how easy it is to run trains using a device you operate every day. Connect as many smart devices as you want. Operate in stand-alone Wi-Fi or home network modes.



DCS Wi-Fi Explorer

Use your smartphone or tablet to control your model railroad. Just connect the DCS Explorer to your track, plug in a separately sold DC power supply, download the free app and you're running your layout.

You'll have a smaller set of the DCS functions and features found in the more expensive DCS Track Interface Unit (TIU) and the DCS WiFi Interface Unit. Connect as many smart devices as you want. Operate in stand-alone Wi-Fi or home network modes.



*When operating in command mode, the DCC/DCS switch must be set to the appropriate command system.

POWER UP

with High-Quality, UL-approved Transformers



100 Watts

Z-1000™ AC Transformer
40-1000 \$129.95
With 14 Volt Accessory Port

Whether you operate with conventional AC power or the M.T.H. Digital Command System (DCS), our UL-approved transformers offer the best way to power your layout. Choose the 100-watt Z-1000™ for a small- to medium-sized layout, or step up to the 400-watt, feature-laden Z-4000®, the most powerful UL-approved transformer in the hobby. All M.T.H. transformers offer:

- Incredibly smooth, wide range throttle for precise speed control
- Bell and whistle/horn buttons that work with all makes of AC-powered locomotives
- Fast-acting circuit breakers to protect your equipment
- Continuous useable wave power output compatible with all AC-powered engines



RailKing Controller Set
40-750C \$59.95

Includes Z-500/Z-750 transformer controller, RealTrax lock-on (40-1003), RealTrax wire harness (40-1015)

Z-DC1 Transformer
40-200 \$29.95



A perfect small DC power supply to power up accessory lights, the ZDC1 includes a smooth-feeling power knob atop its UL-approved enclosure.

- UL-approved
- 20 Watts DC Max Power Output
- Smooth Operating Throttle Knob
- Built-In Circuit Breaker Protection

Z-560 56 Watt Power Supply
40-560 \$44.95

Small DC fixed power supply (56 Watts) for powering the DCS Explorer (and any Proto-Sound 2.0 or 3.0 equipped locomotive), the DCS TIU Auxiliary Port or the DCS Remote Commander Receiver

- UL-approved
- 56 Watts Max Power Output
- Built-In Circuit Breaker Protection



100-Watt Accessory AC Power Supply
40-1000a \$89.95

- Ideal for powering accessories, or for DCS users who don't need a conventional transformer
- TIU/Barrel Jack adapter available separately for easy connection to DCS Track Interface Unit (TIU)
- 18-volt track power output
- 14-volt accessory output



Proto-Sound 2.0 Battery Charger
50-1019 \$19.95



6' Mini-to-Mini Cable
50-1009 \$9.95



AA NiCad Proto-Sound Battery
50-1024 \$11.95



Proto-Sound Battery
50-1008 \$11.95



TIU/TMCC-Legacy
6' Connector Cable
50-1032 \$24.95



Z-DC24 24-Watt Power Supply
50-240 \$17.95



TIU/Barrel Jack Female Adapter Cable
50-1017 \$10.95



Transformer/Barrel Jack Male Adapter Cable
50-1037 \$10.95

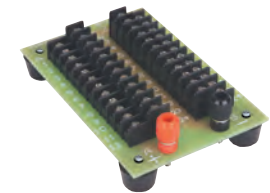


DCS WiFi Companion
2nd Edition

Digital Version
60-1411 \$14.95

Soft Cover
60-1412 \$34.95

Available as a soft cover book or a pdf download — order from www.mthtrains.com/news/611



24-Port Terminal Block
50-1020 \$37.95

12-Port Terminal Block
50-1014 \$27.95

400 Watts!

The Most Powerful UL Listed Transformer!

Smooth-operating, wide-range **dual throttles**

Overload indicator

Learn More About It
The instruction manual for every M.T.H. transformer is available at www.mthtrains.com. Just look up the transformer in our Product Search feature.

Smooth-operating, wide-range **dual throttles**

Dual ammeters show how much current each throttle is using and warn of potential overloads

Power-on indicator

Bell and whistle/horn buttons compatible with all AC engines

Dual digital voltmeters show how much power you're putting on the track

Programming button for original Proto-Sound and QSI® AC sound systems

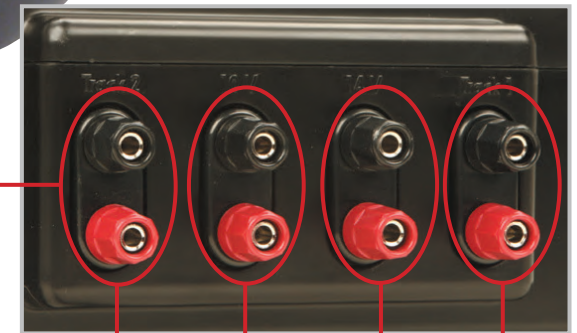
Rear Panel Outputs

UL Approved, patented design for continuous and safe maximum allowable power output at a sustained 18 volts RMS at 10 amps for each throttle.

Internal cooling fan

Direction button for each channel

On-off switch with Accidental Startup Protection: If throttles are not in Off position when Z-4000 is turned on, no power will be applied to the track.



| | | | |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| 0~22 Volts Track Power (10 AMP) | 10-Volt Accessory Power (3 AMP) | 14-Volt Accessory Power (3 AMP) | 0~22 Volts Track Power (10 AMP) |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|

Accepts bare wires, spade lugs, or banana plugs (recommended) for easy connections

Z-4000® Transformer
40-4000 \$ 499.95

Two AC throttles, each with its own complete set of controls, plus 10-volt and 14-volt AC accessory outputs

WHY THE UL OR SP LISTING?

To protect our customers and their trains, M.T.H. Electric Trains is committed to manufacturing safe, UL- or CSA-approved transformers and power supplies. By subjecting our transformers to the strenuous tests and requirements of Underwriters Laboratories and/or CSA, M.T.H. helps ensure that our products meet the same requirements as other consumer electronics sold today. When choosing a new transformer, model railroaders should only look for those that have received a UL or CSA listing.

MTH Railroaders Club

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35-74025 Pullman Standard (MTHRRC)
Rebuilt Steel Box Car
S Gauge Membership is \$55.00

60-1000 - The Basic Club Membership does not include a club car
Basic Membership is \$25.00

As a member of the M.T.H. RailRoders Club you'll receive:

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Each year we produce beautifully decorated cars exclusively for our Club members. Members automatically receive the car that matches their Club membership (HO gauge, S gauge, RailKing, Premier, Tinplate Traditions or One Gauge) and have the option to collect other Club cars as well.

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Show the world your membership in this elite group of model railroaders with your high-quality embossed membership card & beautiful enameled lapel pin.

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MTHRRC members can still obtain earlier produced MTHRRC cars by visiting the MTHRRC pages on the web-site. Only MTHRRC members can get these cars!



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This comprehensive history of M.T.H. is a must for collectors and other lovers of toy trains. 350 pages & 1900 color photos, hard cover. Add this book to your membership for only \$25.00 (50% off the \$49.95 cover price!)



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M.T.H.'s DCS Digital Command System has received U.S. Patent No. 6,457,681. M.T.H.'s Proto-Sound® 2.0 system has received U.S. Patent No's 6,457,681 B1 (sound system), 6,457,681 B1 (Proto-Speed Control™), 6,604,641 (Proto-Coupler™), 7,210,656 (Sound), 6,662,917 (2/3Rail), 7,210,656 (Internet Downloads, Music & Doppler), 6,655,640 (Smoke Synchronization), HO Coupler 7,694,834 Bi-Directional Communication 8262034

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