

EMT
ELECTRIC TRAINS®
HO TRAINS THAT DO MORE



2010 No. 2

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.

VIVID ENGINE SOUNDS

Proto-Sound features digital recordings with CD-quality playback. We strive to make our sounds as authentic as possible, using the characteristic whistle for a particular steam engine, for example. With the optional DCS system, you can tune each engine to your preference by individually adjusting bell, horn or whistle, and chuff volume.

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.

LIGHTING EFFECTS

Proto-Sound locomotives feature prototypical Rule 17 lighting, including a variety of realistic lighting effects. Depending on the locomotive, these may include constant-brightness headlights, illuminated number boards, lighted marker lamps, and alternating ditch lights. In DCS operation, many of these lighting effects can be individually controlled.

MULTIPLE UNIT CAPABILITY

In DCS command mode, all locomotives set to the same speed — 37 scale miles per hour, for example — will move at



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, the whoosh of a steam engine opening its cylinder cocks, and a host of other atmospheric

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.

virtually the same speed.

This makes it easy to double or even triple-head nearly any combination of Proto-Sound 3.0 locomotives.

GREAT SMOKE

Proto-Sound engines feature fan-driven ProtoSmoke™, the most powerful smoke system in the hobby. You can vary the intensity with the smoke "volume" control on the locomotive or remotely with any DCC or DCS controller.

SYNCHRONIZED CHUFF AND PUFF

Like a real steam engine, M.T.H. steamers feature puffs of smoke and steam chuff sounds synchronized with the drive wheels. Better than any other model train, an M.T.H. locomotive portrays the drama of a steam engine slowly chuffing and puffing as it pulls out of a station and gets up to speed.

BRAKE SOUNDS

Engine brakes squeal whenever you throttle back sharply or pull into a station. In DCS mode, you can trigger the brake sound with the Brake button on the DCS handheld.

FULL COMPATIBILITY WITH ALL HO OPERATING SYSTEMS

Right out of the box, every Proto-Sound 3.0 M.T.H. engine is compatible with all HO operating systems: conventional DC, DCC, and our own Digital Command System (DCS). No switches to flip or adjustments to make. Your Proto-Sound engine senses what kind of power is on the rails; just set it on the track and run it.

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.

OPERATE 'EM ALL

In DCS command mode, unlike any other command system available today, you'll have 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. Blow all their whistles at once, turn on or off their smoke, stop and reverse every active engine — all at the same time.

DCC Features

Proto-Sound 3.0-equipped locomotives can be controlled in command mode with any DCC-compliant command control system. While you won't have access to all of the incredible features of Proto-Sound 3.0, you will have full DCC command control. 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 steam locomotive features are accessible:

Steam Features*

- Headlight on/off
- Bell on/off
- Whistle/Horn on/off
- Start-up/Shut-down
- PFA initiate and advance
- Cab Light on/off
- Engine Sounds on/off
- Volume low, med, high, off
- Smoke on/off
- Forward Signal Sound
- Reverse Signal Sound
- Coupler Slack Sound
- Grade Crossing
- One-Shot Doppler on/off
- Extended Start Up
- Extended Shut Down
- Labor Chuff
- Drift Chuff
- Smoke Volume
- Single short whistle toot
- Coupler Close
- Feature Reset
- Idle Sequence 1
- Idle Sequence 2
- Idle Sequence 3
- Idle Sequence 4
- Brakes auto/off
- Cab Chatter auto/off
- Clickety-Clack auto/off

* Check your DCC Controller's manual to see how many features it can access. See page 6 for DCC diesel features.

EASY LASHUPS AND HELPER ENGINES

Want to run lashups of locomotives like the prototype, with double- or triple-headed diesels or steam engines — or even steamers and diesels working together? No other command control system does this as easily or reliably as the M.T.H. Digital Command System (DCS). With the 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 whistle will sound, as in real life multiple-unit operation.

www.mthHotrains.com

See and hear 'em in action: Visit our site to see videos of M.T.H. locomotives in action, locate your nearest dealer, or learn more about our products.

Who is M.T.H.?

While our name may be new to HO model railroaders, M.T.H. Electric Trains is a seasoned model train manufacturer with a long history of innovation. In little more than a quarter century, M.T.H. has grown from a tiny business operated out of a spare bedroom into an 80+ employee company, headquartered in its own sprawling building in a suburb of Washington, D.C.

Over the past 30 years, we have cataloged nearly 15,000 different items in four scales: O gauge, One Gauge, HO gauge, and tinplate Standard Gauge. We are co-owners of two overseas facilities that make nothing but M.T.H. trains, and we use three other factories that are dedicated solely to our product line. This gives us more control of our manufacturing process and quality than many other train companies, whose products are often made in the same factories used by their competitors.

Our research and development team has received more than 10 patents on innovations in model railroading. We believe the Proto-Sound sound and control system found in every M.T.H. locomotive, in combination with our optional Digital Command System (DCS), makes our trains more realistic and more fun to operate than any other trains in model railroading.

Not all products depicted in this catalog are production models. In some cases, the items pictured may be models in HO scale, O scale, or another scale that have been altered digitally.

Each item's graphic features and content are subject to change after publication. All product features may be verified on their retail packages.

M.T.H. Electric Trains is in no way affiliated with any of the railroads featured in this catalog.

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4-8-8-2 Cab Forward



Part of the first transcontinental railroad, the Southern Pacific's passage over the Sierra Nevadas, from Sparks, Nevada to Roseville, California, has always been a challenge for man and machine. Grades in both directions approximate 2.5%. Thirty-nine tunnels and nearly 40 miles of snow sheds protect the track from snowdrifts and avalanches - Sierra Nevada, after all, is Spanish for "snow covered." Seeking more muscle for this route, the SP took delivery of two Baldwin articulated 2-8-8-2s in 1908. Initial trails, however, revealed that heat and exhaust gases in the tunnels and snowsheds made life nearly unbearable for the engine crew. Although cab forwards had been tried before in Italy and northern California, legend has it the SP cab forwards were inspired by an engineer who turned a Baldwin articulated

around and ran it tender-first, putting the smoke behind him so he could breathe while he did his job.

The first true Southern Pacific Cab Forwards were delivered in March of 1910 and proved so successful that the SP eventually bought 254 more in various classes. Because the firebox and tender were at opposite ends of the locomotive, the cab forwards burned oil, piped under pressure from the tender to the firebox. The cab in front gave the engineer the best forward visibility of any steam locomotive.

The AC-6 Cab Forward returns to the rails offered for the first time in HO with Proto-Sound 3.0 in die-cast metal construction and outfitted with additional details, including legible

builder's plates, painted backhead gauges, cab interior light, tender truck safety chains, and additional boiler details.

While many railfans are familiar with the AC-12 Cab Forward preserved at the California State Railroad Museum - the last new steam engine delivered to the Southern Pacific in 1944 - our model depicts the earlier AC-6 with its distinctive flat cab front and rounded Vanderbilt tender. Delivered in 1930-31, the AC-6 class set the pattern for all future Cab Forwards, with higher boiler pressure, more tractive effort, and the air compressors moved to the boiler front for better weight distribution. Several AC-6s were later modernized with a tapered cab front, and that version is also offered here for the first time.



- NEW!** Southern Pacific Lines - 4-8-8-2 Cab Forward Steam Engine
 80-3181-1 Cab Number 4134 \$599.95
 Southern Pacific Lines - 4-8-8-2 AC-6 Cab Forward Steam Engine
 80-3180-1 Cab Number 4126 \$599.95

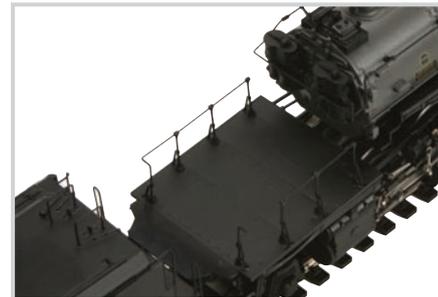
**All Models Include
 On Board DCC Receiver**



- NEW!** Southern Pacific Lines - 4-8-8-2 AC-8 Cab Forward Steam Engine
 80-3182-1 Cab Number 4144 \$599.95
 80-3183-1 Cab Number 4150 \$599.95

Features

- Die-Cast Boiler and Tender Body
- Die-Cast Metal Chassis
- Authentic Paint Scheme & Cab Numbers
- RP-25 Metal Wheels Mounted On Metal Axles
- Constant Voltage Headlight
- Prototypical Rule 17 Lighting
- Detailed Truck Sides
- Detailed Cab Interior
- Powerful Balanced 12-Volt 5-Pole Precision Skewed Flywheel Equipped Motor
- (2) Kadee Compatible Scale Couplers
- Metal Handrails and Decorative Bell
- Decorative Metal Whistle
- Sprung Drive Wheels
- Synchronized Puffing ProtoSmoke™ System
- Locomotive Speed Control In Scale MPH Increments
- Locomotive Cab To Tender Deck Plate
- Detailed Tender Undercarriage
- Engineer & Fireman Cab Figures
- Interchangeable Traction Tire-Equipped Drive Wheels
- On-Board DCC Receiver
- Operates On Code 70, 83, & 100 Rail Curves
- Proto-Sound 3.0 With The Digital Command System Featuring: Quillable Whistle With Freight Yard Proto-Effects
- Unit Measures: 16 3/4" x 1 1/2" x 2 5/16"
- Operates On 18" Radius Curves



4-8-8-4 Big Boy



Just months before Pearl Harbor, the American Locomotive Company delivered the first Big Boy to the Union Pacific Railroad. The UP's Department of Research and Mechanical Standards had designed the locomotive for a specific task: to pull a 3600-ton train unassisted over the Wasatch Mountains in Utah. While the Big Boy is often cited as the biggest steam locomotive ever built, in fact it is not. The Norfolk & Western's Y6 and A, the Duluth Missabe & Iron Range's Yellowstones, and the Chesapeake and Ohio's Alleghenys were all in the same league, and some exceeded the Big Boy's weight and power.

But in the battle for hearts and minds, the Big Boy won. Perhaps it was the name, simple and direct, scrawled on a locomotive under construction by an Alco shop worker. Maybe it was timing, as the Big Boys hit the road just when

America needed symbols to rally around. Maybe the UP's publicity department just did a better job of telling the world what great equipment they had. Whatever the reason, the Big Boy captured the imagination of railfans and the American public over the ensuing years, perhaps more than any other steam engine. In many ways it is the symbolic locomotive of the American West, as big and powerful as the country it sped through.

Writer Henry Comstock beautifully described the Big Boy's place at the apex of steam engine history: "A Union Pacific 'Big Boy' was 604 tons and 19,000 cubic feet of steel and coal and water, poised upon 36 wheels spaced no wider apart than those of an automobile. That it could thunder safely over undulating and curved track at speeds in excess of 70 miles an hour was due in large measure to the efforts

of two long-forgotten pioneers. As early as 1836, the basic system that held its wheels in equalized contact with the rails was patented by a Philadelphian named Joseph Harrison; and a French technical writer, Anatole Mallet, first thought to couple two driving units heel to toe below one boiler in 1874."

This enduring symbol of American railroading returns to the rails, complete with the industry-leading speed control, smoke output, and range of accurate sounds that characterize all MTH locomotives. Our model features a precision 12 volt 5-pole skew wound motor and die-cast metal construction for pulling power and speed that rival the original Big Boy - as well as authentic articulated chuffing sounds with the two engines drifting in and out of sync.



NEW! Union Pacific - 4-8-8-4 Big Boy (Modified) Steam Engine

80-3189-1	Cab Number 4014	\$599.95
80-3190-1	Cab Number 4012	\$599.95
80-3191-1	Cab Number 4006	\$599.95
80-3192-1	Cab Number 4017	\$599.95
80-3193-1	Cab Number 4004	\$599.95

**All Models Include
On Board DCC Receiver**

Features

- Die-Cast Boiler and Tender Body
- Die-Cast Metal Chassis
- Authentic Paint Scheme & Cab Numbers
- RP-25 Metal Wheels Mounted On Metal Axles
- Operating Lighted Marker Lights
- Constant Voltage Headlight
- Prototypical Rule 17 Lighting
- Detailed Truck Sides
- Detailed Cab Interior
- Powerful Balanced 12-Volt 5-Pole Precision Skewed Flywheel Equipped Motor
- (2) Kadee Compatible Scale Couplers
- Metal Handrails and Decorative Bell
- Decorative Metal Whistle
- Sprung Drive Wheels
- Synchronized Puffing ProtoSmoke™ System
- Locomotive Speed Control In Scale MPH Increments
- Locomotive Cab To Tender Deck Plate
- Detailed Tender Undercarriage
- Real Coal Load
- Engineer & Fireman Cab Figures
- Interchangeable Traction Tire-Equipped Drive Wheels
- On-Board DCC Receiver
- Operates On Code 70, 83, & 100 Rail Curves
- Proto-Sound 3.0 With The Digital Command System Featuring: Quillable Whistle With Freight Yard Proto-Effects
- Unit Measures: 18 5/8" x 1 1/2" x 5 5/16"
- Operates On 18" Radius Curves



Anatomy of an M.T.H. Diesel Locomotive

Look closely at any M.T.H. locomotive and you'll find a combination of superb detailing, prototype accuracy, realistic sound effects, and smooth, dependable operation that is unmatched by any other manufacturer. The Electro-Motive Diesel SD70ACe shown here, for example, features a wealth of separately-added detail parts and tooling that can be customized to produce different, accurate versions for a variety of railroads—by changing the location of vents, headlights, side panels, and other locomotive details.

DCC Features

Proto-Sound 3.0-equipped locomotives can be controlled in command mode with any DCC-compliant command control system. While you won't have access to all of the incredible features of Proto-Sound 3.0, you will have full DCC command control. 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 steam locomotive features are accessible:

Diesel Features*

- Headlight
- Bell
- Whistle/Horn
- Start Up/Shut Down
- Rear Coupler
- Front Coupler
- Engine Sounds On/Off
- Sound Volume
- Ditch Lights Auto/On/Off
- Forward Signal
- Reverse Signal
- Grade Crossing Signal
- Cab Light On/Off
- Extended Start Up
- Extended Shut Down
- Rev Up
- Rev Down
- Coupler Slack Sound
- Coupler Close
- One-Shot Doppler
- Feature Reset
- Idle Sequence 1
- Idle Sequence 2
- Idle Sequence 3
- Ditch Lights Auto/On/Off
- Brakes Auto/Off
- Cab Chatter Auto/Off
- Clickety-Clack Auto/Off
- Coupler Slack Sound

* Check your DCC Controller's manual to see how many features it can access.



Includes Remotely Activated Proto-Coupler™ and interchangeable magnetic coupler, both Kadee® Compatible



Directionally Controlled Headlights

Illuminated Number Boards

Windshield wipers

Sand Filler



Shock Absorber

Brake Cylinders & Air Lines

**Powerful Balanced
12-Volt 5-Pole Precision
Flywheel-Equipped Motor**

**Side View
Mirror**

GPS Receiver

**Metal See-Through
Fan Grills**



**Separate Metal
Grab Irons and
Hand Rails**

**Safety Tread on
End Steps**

Detachable Snow Plow

**Die-Cast Air Tanks
and Fuel Tank**

**All Wheels
Powered**

*Pre-Production Model Shown
(Graphics Subject to Change)*

**Warning
Placards**

**Safety Tread
on Walkways**



**See-Through
Grills**

**Metal
Handrails**



**Handrails &
Safety
Chains**

**Operating
Ditch Lights**

**Coupler Lift
Bar**

MU Cables



4500hp Gas Turbine



New for 2010, MTH is proud to introduce the UP "Baby" 4500 turbine locomotives, with all the same detailing and features of its bigger brother, the Veranda. Variable intensity smoke, a broad range of sounds, turbine crew conversations, remotely controlled couplers, operating Mars light, built in DCC decoder and die-cast metal construction, twin fly-wheel-equipped motors, and four traction tires to provide pulling power all cumulate in a model that rivals the prototype.

In the late 1940s, even as it was building diesels in partnership with Alco, General Electric was experimenting with ways to apply its aircraft jet engine technology to railroading. Its gas turbine electric (GTEL) was basically a diesel engine with a large turbine replacing the diesel as the prime mover. In a turbine, intake air is compressed by spinning turbine blades and fed into combustion chambers, where fuel is added and ignited, as in a jet engine. The hot exhaust gases spin the blades of another turbine that powers one or more generators, which produce electricity to power diesel-type traction motors.

Compared with diesels of the period, GE's GTEL put three times as much power (4500hp) in one locomotive, had significantly fewer moving parts, and did not

vibrate like a diesel. The major drawback was a voracious appetite for fuel.

Undeterred by the failure of its steam turbine prototypes, GE perused the development of a gas turbine engine, and in June of 1949 UP added the prototype to their roster for further testing. Locomotives #51-60 were then ordered by UP in March of 1951. In their first year of operation the locomotives averaged approximately 4.2 gallons of total fuel per 1,000 gross ton-miles. Union Pacific's president A.E. (Art) Stoddard referred to the locomotives as "jet propulsion on wheels", claiming the turbine gas engines "might well revolutionize American railroading". The Baby's 4500hp turbines demonstrated the locomotives ability to go faster than diesel engines and appeared, at the time, to be the more economical choice.

While not intended for passenger use, on occasion the gas turbine 4500 locomotive pulled in a streamlined passenger train after a diesel engine would break down. Although the locomotive was not designed for multiple unit operation, they were occasionally double loaded, even through long tunnel routes where recalculation of exhaust gasses could pose problems. After two years of testing GE's prototype, the Union Pacific ordered its first ten GTELs in 1951. The engines were designed to burn Bunker C oil, a byproduct of

petroleum distillation that was almost considered waste material. The low cost of Bunker C more than compensated for the turbines' high consumption, although the oil was so thick it had to be heated to 240 degrees Fahrenheit to flow through the fuel system.

In 1955 auxiliary fuel tenders were added to the locomotives, this additionally 24,000 gallons of oil allowed the train to make longer runs, increasing monthly mileage.

Averaging around 10,000 miles a month (400 turbine operating hours), the locomotive also contained a 250hp diesel engine, which was used to bring the turbine engine up to its firing speed of 700RPM. This allowed the engine to then run fans, pumps, cooling motors, auxiliaries, and allowed the locomotive to move around terminals when running light. Unfortunately, by the early 1960s, the turbines' use of Bunker C fuel had changed from an advantage to a problem. The plastics industry had found new uses for the former waste product and its price skyrocketed. At the same time, the corrosive nature of the fuel led many of the turbines to develop engine problems. The Verandas were retired in 1963-64 in favor of newer 8500hp Big Blows, and the UP's entire turbine program was finished by 1970.



- NEW!** **Union Pacific** - 4500hp Gas Turbine & Tender Set With Proto-Sound 3.0
 80-2130-1 Cab Numbers 52 \$499.95
Union Pacific - 4500hp Gas Turbine & Tender Set (DCC Ready)
 80-2130-0 Cab Numbers 52 \$419.95
Union Pacific - 4500hp Gas Turbine & Tender Set With Proto-Sound 3.0
 80-2131-1 Cab Numbers 57 \$499.95
Union Pacific - 4500hp Gas Turbine & Tender Set (DCC Ready)
 80-2131-0 Cab Numbers 57 \$419.95

- Union Pacific** - 4500hp Gas Turbine & Tender Set With Proto-Sound 3.0
 80-2132-1 Cab Numbers 59 \$499.95
Union Pacific - 4500hp Gas Turbine & Tender Set (DCC Ready)
 80-2132-0 Cab Numbers 59 \$419.95
Union Pacific - 4500hp Gas Turbine & Tender Set With Proto-Sound 3.0
 80-2133-1 Cab Numbers 55 \$499.95
Union Pacific - 4500hp Gas Turbine & Tender Set (DCC Ready)
 80-2133-0 Cab Numbers 55 \$419.95



- NEW!** **Union Pacific** - 4500hp Gas Turbine With Proto-Sound 3.0
 80-2126-1 Cab Numbers 52 \$429.95
Union Pacific - 4500hp Gas Turbine (DCC Ready)
 80-2126-0 Cab Numbers 52 \$349.95
Union Pacific - 4500hp Gas Turbine With Proto-Sound 3.0
 80-2127-1 Cab Numbers 57 \$429.95
Union Pacific - 4500hp Gas Turbine (DCC Ready)
 80-2127-0 Cab Numbers 57 \$349.95



- NEW!** **Union Pacific** - 4500hp Gas Turbine With Proto-Sound 3.0
 80-2128-1 Cab Numbers 59 \$429.95
Union Pacific - 4500hp Gas Turbine (DCC Ready)
 80-2128-0 Cab Numbers 59 \$349.95
Union Pacific - 4500hp Gas Turbine With Proto-Sound 3.0
 80-2129-1 Cab Numbers 55 \$429.95
Union Pacific - 4500hp Gas Turbine (DCC Ready)
 80-2129-0 Cab Numbers 55 \$349.95

Features

- Die-Cast Metal Body
- Die-Cast Metal Chassis
- Authentic Paint Scheme & Cab Numbers
- RP-25 Metal Wheels Mounted On Metal Axles
- Constant Voltage, Directional Headlights
- Prototypical Rule 17 Lighting
- Remotely Controlled, Directionally Activated Operating Pantographs
- Detailed Truck Sides
- Detailed Cab Interior
- Powerful 12-Volt 5-Pole Precision Skew-Wound Flywheel-Equipped Motor
- (1) Scale Kadee-Compatible Remotely Controlled Proto-Coupler
- (1) User-Installable Kadee-Compatible Magnetic Coupler
- Metal Handrails and Bell
- Metal Horn
- Locomotive Speed Control In Scale MPH Increments
- Interchangeable Traction Tire-Equipped Drive Wheels
- (2) Cab Figures
- On-Board DCC Receiver
- Operates On Code 70, 83, & 100 Rail
- Proto-Sound® 3.0 With The Digital Command System Featuring Passenger Station or Freight Yard Proto-Effects™
- Unit Measures: 12 3/4" x 1 3/8" x 2 7/16"
- Operates On 18" Radius Curves



F-7 Diesel



Manufactured by the Electro-Motive division of GM (EMD) from 1949 to 1953, the F-7 was a welcome relief to the strict guidelines set in place by the War Production Board during WWII. By 1945 the war had ended and the restrictions were lifted. EMD took advantage of having no limitations on supplies and released their F-series locomotives that same summer. The EMD F-7 shared the same smooth faced pilots and coupler shrouds as the earlier F3, the only noticeable difference between the two was the F-7's modified primary internal equipment, and the replacement of the F-3's chicken wire grilles with stainless steel upper body grilles.

This 1500hp diesel electric locomotive worked hard to meet industry demand after the four years of restriction

during the war. Universally associated with North American railroads until the 1970's, EMD's F-7 continued to be used for decades as railroads found them inexpensive to operate and maintain. Originally introduced as a freight-hauling unit, by EMD, the F-7 was also frequently used in passenger service. The F-7 wound up being the best selling carbody-style diesel EMD ever produced, selling over 3,700 units to 49 different railroads. They stayed in service until 1970 and assured itself a place in the railroad record books as a triumph of diesel productivity.

M.T.H. is proud to offer the drama of this postwar locomotive in HO scale. The M.T.H. HO F-7 Diesel Sets include Proto Sound 3.0 offering authentic EMD 567

prime mover sounds, first generation diesel horn and bell, crew station sounds, break sounds, and cab chatter. The F7 features superb detailing that characterizes all M.T.H. HO diesels with added-on details that include legible builder's plates, grab irons, multiple-unit hoses, rooftop lift rings, see-through rooftop fans, steam generator exhaust stack (for passenger versions), wind-shield wipers, and trucks with separately-applied spring hangers, brake cylinders, and air pipes. This HO locomotive comes available in the markings of Santa Fe, Erie Lackawanna, Western Maryland, Northern Pacific, and Chesapeake & Ohio.



NEW!

Santa Fe - F-7 A/B Set With Proto-Sound 3.0

80-2114-1 Cab Numbers 304 & 342B \$439.95

Santa Fe - F-7 A Unit With Proto-Sound 3.0

80-2115-1 Cab Number 315 \$229.95

Santa Fe - F-7 B Unit With Proto-Sound 3.0

80-2116-1 Cab Number 345B \$219.95

Santa Fe - F-7 A/B Set (DCC Ready)

80-2114-0 Cab Numbers 304 & 342B \$299.95

Santa Fe - F-7 A Unit (DCC Ready)

80-2115-0 Cab Number 315 \$159.95

Santa Fe - F-7 B Unit (DCC Ready)

80-2116-0 Cab Number 345B \$149.95

**Proto-Sound 3.0
A/B Sets Include
Motors & Sound In
Both Units!**



NEW!

Santa Fe - F-7 A/B Set With Proto-Sound 3.0

80-2117-1 Cab Numbers 39L & 39A \$439.95

Santa Fe - F-7 A Unit With Proto-Sound 3.0

80-2118-1 Cab Number 39C \$229.95

Santa Fe - F-7 B Unit With Proto-Sound 3.0

80-2119-1 Cab Number 39B \$219.95

Santa Fe - F-7 A/B Set (DCC Ready)

80-2117-0 Cab Numbers 39L & 39A \$299.95

Santa Fe - F-7 A Unit (DCC Ready)

80-2118-0 Cab Number 39C \$159.95

Santa Fe - F-7 B Unit (DCC Ready)

80-2119-0 Cab Number 39B \$149.95

**Add a Matching
Passenger Set**
See Page 40

Features

- Directionally Controlled Headlights
- Intricately Detailed ABS Bodies
- 1:87 Scale Proportions
- Metal Wheels and Axles
- (1) Scale Operating Kadee Compatible Coupler on A-Unit
- (1) Operating Kadee Compatible Remote Controlled Proto-Coupler on A-Unit
- Detailed Truck Sides, Pilots and Fuel Tank
- Powerful 12-Volt 5-Pole Skew-Wound Precision Flywheel Equipped Motor In Both A & B Units
- Locomotive Speed Control In Scale MPH Increments
- Lighted Cab Interior
- Illuminated Number Boards
- Lighted Marker Lights
- (2) Engineer Cab Figures
- Moveable Spinning Roof Fan Blades
- Operating MARS Light (Where Prototypical)
- On-Board DCC Receiver
- Operates On Code 70, 83, & 100 Rail Curves
- Proto-Sound 3.0 With The Digital Command System Featuring Passenger Station or Freight Yard Proto-Effects
- A-Unit Measures: 7" x 1 7/16" x 2 3/8"
- B-Unit Measures: 6 7/8" x 1 7/16" x 2 3/8"
- Operates On 18" Radius Curves

F-7 Diesel



NEW!

Erie Lackawanna - F-7 A/B Set With Proto-Sound 3.0
 80-2123-1 Cab Numbers 6111 & 6112 \$439.95
Erie Lackawanna - F-7 A Unit With Proto-Sound 3.0
 80-2124-1 Cab Number 6351 \$229.95
Erie Lackawanna - F-7 B Unit With Proto-Sound 3.0
 80-2125-1 Cab Number 6332 \$219.95

Erie Lackawanna - F-7 A/B Set (DCC Ready)
 80-2123-0 Cab Numbers 6111 & 6112 \$299.95
Erie Lackawanna - F-7 A Unit (DCC Ready)
 80-2124-0 Cab Number 6351 \$159.95
Erie Lackawanna - F-7 B Unit (DCC Ready)
 80-2125-0 Cab Number 6332 \$149.95

Add a Matching Passenger Set
See Page 41



NEW!

Western Maryland - F-7 A/B Set With Proto-Sound 3.0
 80-2111-1 Cab Numbers 60 & 59B \$439.95
Western Maryland - F-7 A Unit With Proto-Sound 3.0
 80-2112-1 Cab Number 54 \$229.95
Western Maryland - F-7 B Unit With Proto-Sound 3.0
 80-2113-1 Cab Number 53B \$219.95

Western Maryland - F-7 A/B Set (DCC Ready)
 80-2111-0 Cab Numbers 60 & 59B \$299.95
Western Maryland - F-7 A Unit (DCC Ready)
 80-2112-0 Cab Number 54 \$159.95
Western Maryland - F-7 B Unit (DCC Ready)
 80-2113-0 Cab Number 53B \$149.95



NEW!

Northern Pacific - F-7 A/B Set With Proto-Sound 3.0
 80-2120-1 Cab Numbers 6511A & 6511B \$439.95
Northern Pacific - F-7 A Unit With Proto-Sound 3.0
 80-2121-1 Cab Number 6511C \$229.95
Northern Pacific - F-7 B Unit With Proto-Sound 3.0
 80-2122-1 Cab Number 6512B \$219.95

Northern Pacific - F-7 A/B Set (DCC Ready)
 80-2120-0 Cab Numbers 6511A & 6511B \$299.95
Northern Pacific - F-7 A Unit (DCC Ready)
 80-2121-0 Cab Number 6511C \$159.95
Northern Pacific - F-7 B Unit (DCC Ready)
 80-2122-0 Cab Number 6512B \$149.95

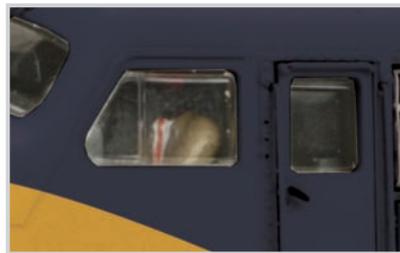
Add a Matching Passenger Set
 See Page 40



NEW!

Chesapeake & Ohio - F-7 A/B Set With Proto-Sound 3.0
 80-2108-1 Cab Numbers 7016 & 7508 \$439.95
Chesapeake & Ohio - F-7 A Unit With Proto-Sound 3.0
 80-2109-1 Cab Number 7017 \$229.95
Chesapeake & Ohio - F-7 B Unit With Proto-Sound 3.0
 80-2110-1 Cab Number 7509 \$219.95

Chesapeake & Ohio - F-7 A/B Set (DCC Ready)
 80-2108-0 Cab Numbers 7016 & 7508 \$299.95
Chesapeake & Ohio - F-7 A Unit (DCC Ready)
 80-2109-0 Cab Number 7017 \$159.95
Chesapeake & Ohio - F-7 B Unit (DCC Ready)
 80-2110-0 Cab Number 7509 \$149.95



Alco FA-1 Diesel



The American Locomotive Company, one of the nation's premier steam locomotive builders, joined forces with Schenectady, New York neighbor General Electric to build the first standardized diesel-electric locomotives in the 1920s. But when the diesel revolution began in earnest after World War II, dependability problems with Alco's model 244 prime mover doomed the company to forever playing second fiddle to industry leader EMD.

The brawny good looks of Alco's FA and PA cab units, however, have endeared them to railfans and modelers for more than half a century. Designed to compete with EMD's FT four axle freight locomotive, the FA-1 contained many of the same design elements but used a new 12-cylinder 244 engine. With its distinctive flatnose

cab and ribbed grille enclosed headlight, the FA-2's were considered by many rail fans to be more handsome and powerful looking than its F-3 and F-7 competitors. By pairing up with General Electric in the 1920's Alco inevitably condemned itself to ride on the coattails of EMD's F-series line.

Built by Alco and EMD in New York between 1946 and 1959, the FA-1 was designed primarily to haul freight, as they did not have the space at the rear of the engine compartment to accommodate a passenger-service steam generator. Externally as well as mechanically the FA-1, designed by Ray Patten, appeared very similar to the ALCO PA models built around the same time period. Distinguishable from the FA-2, the FA-1's shutters were

at the far end of the carbody, this was later changed to accommodate the steam generator that would be placed behind the radiator.

M.T.H. is proud to present the HO FA-2 in the unmistakable colors of Great Northern, Reading, Union Pacific, Pennsylvania and Lehigh Valley. These streamlined diesels will bring beauty and power to any HO layout. The HO Alco FA-1 A/B diesel set includes one twin-motored A unit and one twin-motored B unit. The A unit has full directional lighting and 2 Scale Operating Kadee Compatible Coupler. Like all HO diesel locomotives, the set is equipped with the legendary power and performance of Proto-Sound 3.0.



NEW!

Reading - Alco FA-1 A/B Set With Proto-Sound 3.0
 80-2095-1 Cab Numbers 300A & 300B \$439.95
Reading - Alco FA-1 A Unit With Proto-Sound 3.0
 80-2096-1 Cab Number 301A \$229.95
Reading - Alco FB-1 B Unit With Proto-Sound 3.0
 80-2097-1 Cab Number 301B \$219.95

Reading - Alco FA-1 A/B Set (DCC Ready)
 80-2095-0 Cab Numbers 300A & 300B \$299.95
Reading - Alco FA-1 A Unit (DCC Ready)
 80-2096-0 Cab Number 301A \$159.95
Reading - Alco FB-1 B Unit (DCC Ready)
 80-2097-0 Cab Number 301B \$149.95

**Proto-Sound 3.0
 A/B Sets Include
 Motors & Sound In
 Both Units!**



NEW!

Lehigh Valley - Alco FA-1 A/B Set With Proto-Sound 3.0
 80-2098-1 Cab Numbers 530 & 531 \$439.95
Lehigh Valley - Alco FA-1 A Unit With Proto-Sound 3.0
 80-2099-1 Cab Number 542 \$229.95
Lehigh Valley - Alco FB-1 B Unit With Proto-Sound 3.0
 80-2100-1 Cab Number 543 \$219.95

Lehigh Valley - Alco FA-1 A/B Set (DCC Ready)
 80-2098-0 Cab Numbers 530 & 531 \$299.95
Lehigh Valley - Alco FA-1 A Unit (DCC Ready)
 80-2099-0 Cab Number 542 \$159.95
Lehigh Valley - Alco FB-1 B Unit (DCC Ready)
 80-2100-0 Cab Number 543 \$149.95

Features

- Directionally Controlled Headlights
- Intricately Detailed ABS Bodies
- 1:87 Scale Proportions
- Metal Wheels and Axles
- (2) Scale Operating Kadee Compatible Coupler
- Detailed Truck Sides, Pilots and Fuel Tank
- Powerful 12-Volt 5-Pole Skew-Wound Precision Flywheel-Equipped Motor In Both A & B Units
- Locomotive Speed Control In Scale MPH Increments
- Lighted Cab Interior
- Illuminated Number Boards
- Lighted Marker Lights
- (2) Engineer Cab Figures
- Moveable Spinning Roof Fan Blades
- On-Board DCC Receiver
- Operating MARS Light (Where Prototypical)
- Operates On Code 70, 83, & 100 Rail Curves
- Proto-Sound 3.0 With The Digital Command System Featuring Freight Yard Proto-Effects
- A-Unit Measures: 7 1/16" x 1 3/8" x 2 1/16"
- B-Unit Measures: 6 15/16" x 1 3/8" x 2 1/16"
- Operates On 18" Radius Curves

**DCC-Ready
 A/B Sets Include
 Motors In
 Both Units!**

Alco FA-1 Diesel



NEW!

Union Pacific - Alco FA-1 A/B Set With Proto-Sound 3.0
 80-2103-1 Cab Numbers 1501A & 1525B \$439.95
Union Pacific - Alco FA-1 A Unit With Proto-Sound 3.0
 80-2104-1 Cab Number 1500A \$229.95
Union Pacific - Alco FB-1 B Unit With Proto-Sound 3.0
 80-2105-1 Cab Number 1524B \$219.95

Union Pacific - Alco FA-1 A/B Set (DCC Ready)
 80-2103-0 Cab Numbers 1501A & 1525B \$299.95
Union Pacific - Alco FA-1 A Unit (DCC Ready)
 80-2104-0 Cab Number 1500A \$159.95
Union Pacific - Alco FB-1 B Unit (DCC Ready)
 80-2105-0 Cab Number 1524B \$149.95



NEW!

Great Northern - Alco FA-1 A/B Set With Proto-Sound 3.0
 80-2101-1 Cab Numbers 310A & 310B \$439.95
Great Northern - Alco FA-1 A Unit With Proto-Sound 3.0
 80-2102-1 Cab Number 310C \$229.95

Great Northern - Alco FA-2 A/B Set (DCC Ready)
 80-2101-0 Cab Numbers 310A & 310B \$299.95
Canadian National - Alco FA-2 A Unit (DCC Ready)
 80-2102-0 Cab Number 310C \$159.95



NEW!

Pennsylvania - Alco FA-1 A/B Set With Proto-Sound 3.0
 80-2092-1 Cab Numbers 9600-A & 9600-B \$439.95
Pennsylvania - Alco FA-1 A Unit With Proto-Sound 3.0
 80-2093-1 Cab Number 9601-A \$229.95
Pennsylvania - Alco FB-1 B Unit With Proto-Sound 3.0
 80-2094-1 Cab Number 9601-B \$219.95

Pennsylvania - Alco FA-1 A/B Set (DCC Ready)
 80-2092-0 Cab Numbers 9600-A & 9600-B \$299.95
Pennsylvania - Alco FA-1 A Unit (DCC Ready)
 80-2093-0 Cab Number 9601-A \$159.95
Pennsylvania - Alco FB-1 B Unit (DCC Ready)
 80-2094-0 Cab Number 9601-B \$149.95



Alco PA Diesel



**All Proto-Sound 3.0 Models Include
On-Board DCC Receiver!**

The PA was Alco's glamour girl. While Electro-Motive's E-units easily outsold Alco's passenger engine, the PA is widely regarded as the most beautiful first-generation diesel — period. Perhaps no other locomotive looked so right at the head of the streamlined trains of the late forties and fifties that were the last hurrah of American long-distance passenger service. The 294 PA's and cabless PB's built between 1946 and 1953 powered some of America's most famous name trains, from the Southern Pacific's *Daylight* to the New York Central's *Empire State Express*.

The muscular PA profile and its elegant nose, with the characteristic grille around the headlight, were designed by Ray Patten, General Electric's head of industrial design. At the time, GE and Alco were partners in the locomotive business, with GE making the electrical equipment for all Alco diesels. Patten's design was described as "a locomotive so distinctive and so powerful looking that it actually helps railroads sell

their services to passengers and shippers." While Alco would later fall by the wayside, GE went on to become America's largest locomotive builder by the early 1990's.

Under the hood of the PA beat a 16-cylinder model 244 prime mover that developed 2000 hp. Depending on their gearing, PA's could hustle a passenger consist along at up to 100 mph. Railfans gave the PAs and other Alcos the tongue-in-cheek title of "honorary steam locomotives" in recognition of the black smoke they produced when starting or accelerating, until the turbocharger came up to speed.

Long after all other PA's had gone to scrap, four restored ex-Santa Fe units remained in service on the Delaware & Hudson into the late 1970's. Sold to the Ferrocarriles Nacionales de Mexico (FNM) in 1978, most of the units eventually deteriorated to junk status, although one remained operational. But in April of 2000, Doyle McCormack — who

also happens to be the engineer of No. 4449, the restored Southern Pacific Daylight — and the Smithsonian Institution repatriated two of the junked units for rebuilding. One of the units will be restored to Santa Fe livery for static display, while Doyle is bringing the other PA back to life in the Nickel Plate Road "Bluebird" scheme. You can follow the progress of Doyle's labor on the Web site www.nkp190.com.

Recreate the excitement of first-class passenger travel in the middle of the last century, with these Alco PA locomotives and matching passenger sets. Our ProtoSound 3.0 sound and control system brings you the authentic sounds of an Alco prime mover and station announcements for name trains of the 1940s and '50s — along with the ability to start your train so gently you won't spill the water in the diner and then accelerate up to scale speeds of over 100 mph, just like the prototype.



Southern Pacific - Alco PA A-B Set With Proto-Sound 3.0
 80-2049-1 Cab Numbers 6005 & 5910 \$449.95
Southern Pacific - Alco PA A Unit With Proto-Sound 3.0
 80-2050-1 Cab Number 6006 \$249.95
Southern Pacific - Alco PA B Unit With Proto-Sound 3.0
 80-2051-1 Cab Number 5911 \$229.95

Southern Pacific - Alco PA A-B Set With Proto-Sound 3.0 (DCC Ready)
 80-2049-0 Cab Numbers 6005 & 5910 \$349.95
Southern Pacific - Alco PA A Unit With Proto-Sound 3.0 (DCC Ready)
 80-2050-0 Cab Number 6006 \$189.95
Southern Pacific - Alco PA B Unit With Proto-Sound 3.0 (DCC Ready)
 80-2051-0 Cab Number 5911 \$169.95

Boxed Passenger Set

See Page 42 for Passenger Car Details

Southern Pacific - Alco PA Boxed Set
 80-2061-1 \$529.95
 Includes Powered A Unit & 5 Passenger Cars
 (Baggage, Tavern, Parlor, Single Chair Coach, Observation)
 See Website for Engine and Car Names and Numbers

Proto-Sound 3.0 A/B Sets Include Motors, Smoke & Sound In Both Units!



New York Central - Alco PA A-B Set With Proto-Sound 3.0
 80-2046-1 Cab Number 4200 & 4300 \$449.95
New York Central - Alco PA A Unit With Proto-Sound 3.0
 80-2047-1 Cab Number 4202 \$249.95
New York Central - Alco PA B Unit With Proto-Sound 3.0
 80-2048-1 Cab Number 4302 \$229.95

New York Central - Alco PA A-B Set With Proto-Sound 3.0 (DCC Ready)
 80-2046-1 Cab Number 4200 & 4300 \$349.95
New York Central - Alco PA A Unit With Proto-Sound 3.0 (DCC Ready)
 80-2047-1 Cab Number 4202 \$189.95
New York Central - Alco PA B Unit With Proto-Sound 3.0 (DCC Ready)
 80-2048-1 Cab Number 4302 \$169.95

Boxed Passenger Set

See Page 42 for Passenger Car Details

New York Central - Alco PA Boxed Set
 80-2060-1 \$529.95
 Includes Powered A Unit & 5 Passenger Cars
 (Baggage, Parlor, Diner, Coach, Observation)
 See Website for Engine and Car Names and Numbers

Features

- Intricately Detailed ABS Bodies
- Authentic Paint Scheme & Cab Numbers
- Detailed Truck Sides, Pilots and Fuel Tank
- Die-Cast Metal Chassis
- (2) Cab Figures In A Unit
- Directionally Controlled Headlights
- RP-25 Metal Wheels Mounted On Metal Axles
- Powerful 12-Volt 5-Pole Precision Skew-Wound Flywheel-Equipped Motor In Each Unit
- Locomotive Speed Control in Scale MPH Increments
- Lighted Cab Interior
- Operating MARS Light (*Where Prototypical*)
- Illuminated Number Boards
- Lighted Class Lights
- (2) Scale Kadee-Compatible Remotely Controlled Proto-Couplers On Each A/B Set
- (2) User-Installable Kadee-Compatible Operating Couplers Also Supplied
- On-Board DCC Receiver
- Operates On Code 70, 83, & 100 Rail
- Proto-Sound® 3.0 With The Digital Command System Featuring Passenger Station Proto-Effects™
- A Unit Measures: 9 1/4" x 1 3/8" x 2 1/8"
- B Unit Measures: 8 3/4" x 1 3/8" x 2 1/8"
- Operates On 18" Radius Curves

Alco PA Diesel



Denver Rio Grande - Alco PA A-B Set With Proto-Sound 3.0
 80-2077-1 Cab Number 6011 & 6002 \$449.95
Denver Rio Grande - Alco PA A Unit With Proto-Sound 3.0
 80-2078-1 Cab Number 6013 \$249.95
Denver Rio Grande - Alco PA B Unit With Proto-Sound 3.0
 80-2079-1 Cab Number 6012 \$229.95

Denver Rio Grande - Alco PA A-B Set With Proto-Sound 3.0 (DCC Ready)
 80-2077-0 Cab Number 6011 & 6002 \$349.95
Denver Rio Grande - Alco PA A Unit With Proto-Sound 3.0 (DCC Ready)
 80-2078-0 Cab Number 6013 \$189.95
Denver Rio Grande - Alco PA B Unit With Proto-Sound 3.0 (DCC Ready)
 80-2079-0 Cab Number 6012 \$169.95

Add a Matching Passenger Set
 See Page 40



Santa Fe - Alco PA A-B Set With Proto-Sound 3.0
 80-2080-1 Cab Number 70 & 70A \$449.95
Santa Fe - Alco PA A Unit With Proto-Sound 3.0
 80-2081-1 Cab Number 62 \$249.95
Santa Fe - Alco PA B Unit With Proto-Sound 3.0
 80-2082-1 Cab Number 62A \$229.95

Santa Fe - Alco PA A-B Set With Proto-Sound 3.0 (DCC Ready)
 80-2080-0 Cab Number 70 & 70A \$349.95
Santa Fe - Alco PA A Unit With Proto-Sound 3.0 (DCC Ready)
 80-2081-0 Cab Number 62 \$189.95
Santa Fe - Alco PA B Unit With Proto-Sound 3.0 (DCC Ready)
 80-2082-0 Cab Number 62A \$169.95

Add a Matching Passenger Set
 See Page 40





New Haven - Alco PA A-A Set With Proto-Sound 3.0
 80-2083-1 Cab Number 0760 & 0767 \$449.95
New Haven - Alco PA A Unit With Proto-Sound 3.0
 80-2084-1 Cab Number 0785 \$249.95

New Haven - Alco PA A-A Set With Proto-Sound 3.0 (DCC Ready)
 80-2083-0 Cab Number 0760 & 0767 \$349.95
New Haven - Alco PA A Unit With Proto-Sound 3.0 (DCC Ready)
 80-2084-0 Cab Number 0785 \$189.95

Add a Matching Passenger Set
See Page 40



Erie - Alco PA A-A Set With Proto-Sound 3.0
 80-2086-1 Cab Number 854 & 858 \$449.95
Erie - Alco PA A Unit With Proto-Sound 3.0
 80-2087-1 Cab Number 856 \$249.95

Erie - Alco PA A-A Set With Proto-Sound 3.0 (DCC Ready)
 80-2086-0 Cab Number 854 & 858 \$349.95
Erie - Alco PA A Unit With Proto-Sound 3.0 (DCC Ready)
 80-2087-0 Cab Number 856 \$189.95

Add a Matching Passenger Set
See Page 41



Delaware & Hudson - Alco PA A-B Set With Proto-Sound 3.0
 80-2089-1 Cab Number 16 & 18 \$449.95
Delaware & Hudson - Alco PA A Unit With Proto-Sound 3.0
 80-2090-1 Cab Number 19 \$249.95

Delaware & Hudson - Alco PA A-B Set With Proto-Sound 3.0 (DCC Ready)
 80-2089-0 Cab Number 16 & 18 \$349.95
Delaware & Hudson - Alco PA A Unit With Proto-Sound 3.0 (DCC Ready)
 80-2090-0 Cab Number 19 \$189.95

Add a Matching Passenger Set
See Page 41

Little Joe Electric



By the late 1940s, the engines on the Milwaukee Road's electrified Rocky Mountain Division were nearly three decades old and tired, and diesels were the wave of the future. Management was intending to pull down the overhead wires and dieselize the entire division. Then along came a big electric named Little Joe, and the wires stayed up for another quarter-century.

The Joes were actually built for another customer half a world away, Russia's Trans-Siberian Railroad. But by the time they were ready to deliver in 1948, the Cold War had frozen sales to the Soviet Union, and builder General Electric was stuck with twenty 5,500 hp locomotives designed to run on 3,300 volts DC. As the Milwaukee Road was one of the few American railroads with overhead DC power (at 3,000 volts), GE offered the entire order to the Milwaukee at the fire sale price of one million dollars. At least one unit, painted in GE

demo colors, was tested on the Milwaukee in 1948 and acquired the nickname "Little Joe" after Joe Stalin.

But the Milwaukee came up with reasons not to make the purchase, and in 1949 three units went to the Chicago, South Shore and South Bend for freight service, where they served until 1983, and five more to Brazil's Paulista Railroad, where they were known as *Russas*.

An upsurge of traffic from the Korean War convinced the Milwaukee it had made a mistake, and in August 1950 it purchased the remaining 12 Joes for the original million-dollar price. All went to the Rocky Mountain Division between Harlowton, Montana and Avery, Idaho — ten designated EF-4 for freight service and two as EP-4s for *Olympian Hiawatha* passenger trains.

Originally the freight units worked in pairs, with a boxcab helper added on the division's tougher grades. But later in the 1950s a GP9 diesel was attached to the Little Joe pairs and controlled from the lead Joe; this combination could run straight through electrified territory without adding or dropping helpers. By the following decade, Joes were simply cut in ahead of the freight diesels at the beginning of electrified territory, with the Joe's engineer controlling all units. Eventually, however, second-generation diesels brought an end to electrification, and on June 15, 1974, the last Little Joes folded their pantographs.

New for 2010, the M.T.H. Little Joe duplicates the brute strength and dependability of the original, complete with a detailed die-cast metal body and, for the first time in HO, operating pantographs that raise and lower automatically according to the direction of travel.



NEW! Milwaukee Road - Little Joe Electric (Passenger Colors)
 80-2037-1 Cab Number E20 \$399.95
 80-2038-1 Cab Number E21 \$399.95

Die-Cast Metal Body



NEW! South Shore - Little Joe Electric
 80-2040-1 Cab Number 801 \$399.95
 80-2041-1 Cab Number 802 \$399.95
 80-2042-1 Cab Number 803 \$399.95

All Models Include On-Board DCC Receiver



NEW! FEPASA (Brazilian national railway) - Little Joe Electric
 80-2043-1 Cab Number 6451 \$399.95
 80-2044-1 Cab Number 6452 \$399.95
 80-2045-1 Cab Number 6455 \$399.95

All Models Include Operating, Motorized Pantographs



NEW! GE Demo - Little Joe Electric
 80-2033-1 Cab Number GE-750 \$399.95

Features

- Die-Cast Metal Body
- Authentic Paint Scheme & Cab Numbers
- RP-25 Metal Wheels Mounted On Metal Axles
- Constant Voltage, Directional Headlights
- Prototypical Rule 17 Lighting
- Remotely Controlled, Directionally Activated Operating Pantographs
- Detailed Truck Sides
- Detailed Cab Interior
- Powerful 12-Volt 5-Pole Precision Skew-Wound Flywheel-Equipped Motor
- (2) Scale Kadee-Compatible Remotely Controlled Proto-Couplers
- (2) User-Installable Kadee- Compatible Magnetic Couplers
- Metal Handrails and Bell
- Metal Horn
- Locomotive Speed Control In Scale MPH Increments
- Interchangeable Traction Tire-Equipped Drive Wheels
- On-Board DCC Receiver
- Operates On Code 70, 83, & 100 Rail
- Proto-Sound® 3.0 With The Digital Command System Featuring Passenger Station or Freight Yard Proto-Effects™
- Unit Measures: 12 3/4" x 1 3/8" x 2 7/16"
- Operates On 18" Radius Curves



NEW! Milwaukee Road - Little Joe Electric (Freight Colors)
 80-2035-1 Cab Number E73 \$399.95
 80-2036-1 Cab Number E76 \$399.95
 80-2039-1 Cab Number E75 \$399.95
 80-2034-1 Cab Number E72 \$399.95

H0 Diesels

All Proto-Sound 3.0 Models Include On-Board DCC Receiver!

SD70ACe Comfort Cab Diesel



NEW! Union Pacific - SD70ACe Comfort Cab Diesel Engine w/Proto-Sound® 3.0

80-2134-1	Cab Number 8622	\$249.95
80-2135-1	Cab Number 8625	\$249.95
80-2136-1	Cab Number 8631	\$249.95

Union Pacific - SD70ACe Comfort Cab Diesel Engine (DCC Ready)

80-2134-0	Cab Number 8622	\$189.95
80-2135-0	Cab Number 8625	\$189.95
80-2136-0	Cab Number 8631	\$189.95

NEW! BNSF - SD70ACe Comfort Cab Diesel Engine w/Proto-Sound® 3.0

80-2137-1	Cab Number 9162	\$249.95
80-2138-1	Cab Number 9168	\$249.95
80-2139-1	Cab Number 9172	\$249.95

BNSF - SD70ACe Comfort Cab Diesel Engine (DCC Ready)

80-2137-0	Cab Number 9162	\$189.95
80-2138-0	Cab Number 9168	\$189.95
80-2139-0	Cab Number 9172	\$189.95



SD70ACe Diesel



CSX - SD70ACe Diesel Engine

80-2001-1	w/Proto-Sound 3.0	\$249.95
Cab Numbers 4833, 4836 & 4839		

CSX - SD70ACe Diesel Engine (DCC Ready)

80-2062-0	Cab Number 4833	\$189.95
80-2063-0	Cab Number 4836	\$189.95
80-2064-0	Cab Number 4839	\$189.95

Kansas City Southern- SD70ACe Diesel Engine

80-2002-1	w/Proto-Sound 3.0	\$249.95
Cab Numbers 4030, 4031 & 4051		

Kansas City Southern - SD70ACe Diesel Engine (DCC Ready)

80-2065-0	Cab Number 4030	\$189.95
80-2066-0	Cab Number 4031	\$189.95
80-2067-0	Cab Number 4051	\$189.95





Western Pacific - SD70ACe Diesel Engine
80-2008-1 w/Proto-Sound 3.0 \$249.95
Cab Number 1983

Western Pacific - SD70ACe Diesel Engine (DCC Ready)
80-2008-0 Cab Number 1983 \$189.95

Missouri Pacific - SD70ACe Diesel Engine
80-2007-1 w/Proto-Sound 3.0 \$249.95
Cab Number 1982

Missouri Pacific - SD70ACe Diesel Engine (DCC Ready)
80-2007-0 Cab Number 1982 \$189.95



Katy - SD70ACe Diesel Engine
80-2009-1 w/Proto-Sound 3.0 \$249.95
Cab Number 1988

Katy - SD70ACe Diesel Engine (DCC Ready)
80-2009-0 Cab Number 1988 \$189.95

Denver & Rio Grande Western - SD70ACe Diesel Engine
80-2010-1 w/Proto-Sound 3.0 \$249.95
Cab Number 1989

Denver & Rio Grande Western - SD70ACe Diesel Engine (DCC Ready)
80-2010-0 Cab Number 1989 \$189.95

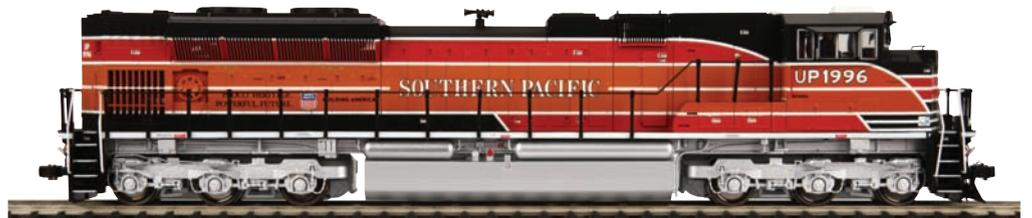


Chicago & North Western - SD70ACe Diesel Engine
80-2011-1 w/Proto-Sound 3.0 \$249.95
Cab Number 1995

Chicago & North Western - SD70ACe Diesel Engine (DCC Ready)
80-2011-0 Cab Number 1995 \$189.95

Southern Pacific - SD70ACe Diesel Engine
80-2012-1 w/Proto-Sound 3.0 \$249.95
Cab Number 1996

Southern Pacific - SD70ACe Diesel Engine (DCC Ready)
80-2012-0 Cab Number 1996 \$189.95



SD70ACe Diesel

EMD Demonstrator - SD70ACe Diesel Engine
 80-2004-1 w/Proto-Sound 3.0 \$249.95
 Cab Numbers GM70 (Off-White Steps) GM71 & GM73 (Blue Steps)

EMD Demonstrator - SD70ACe Diesel Engine (DCC Ready)
 80-2071-0 Cab Number GM70 \$189.95
 80-2072-0 Cab Number GM71 \$189.95
 80-2073-0 Cab Number GM73 \$189.95



Union Pacific - SD70ACe Diesel Engine w/Proto-Sound® 3.0

80-2023-1 Cab Number 8444 \$249.95
 80-2024-1 Cab Number 8439 \$249.95
 80-2025-1 Cab Number 8453 \$249.95

Union Pacific - SD70ACe Diesel Engine (DCC Ready)

80-2023-0 Cab Number 8444 \$189.95
 80-2024-0 Cab Number 8439 \$189.95
 80-2025-0 Cab Number 8453 \$189.95



George H. Bush - SD70ACe Diesel Engine
 80-2013-1 w/Proto-Sound 3.0 \$249.95
 Cab Number 4141

George H. Bush - SD70ACe Diesel Engine (DCC Ready)
 80-2013-0 Cab Number 4141 \$189.95



Montana Rail Link - SD70ACe Diesel Engine

80-2005-1 w/Proto-Sound 3.0 \$249.95
 Cab Numbers 4304, 4308 & 4311

Montana Rail Link - SD70ACe Diesel Engine (DCC Ready)

80-2074-0 Cab Number 4304 \$189.95
 80-2075-0 Cab Number 4308 \$189.95
 80-2076-0 Cab Number 4311 \$189.95



Union Pacific - SD70ACe Diesel Engine
 80-2006-1 w/Proto-Sound 3.0 \$249.95
 Cab Number 8321

Union Pacific - SD70ACe Diesel Engine (DCC Ready)
 80-2006-0 Cab Number 8321 \$189.95



BNSF - SD70ACe Diesel Engine

80-2003-1 w/Proto-Sound 3.0 \$249.95
 Cab Numbers 9371, 9370 & 9374

BNSF - SD70ACe Diesel Engine (DCC Ready)

80-2068-0 Cab Number 9371 \$189.95
 80-2069-0 Cab Number 9370 \$189.95
 80-2070-0 Cab Number 9374 \$189.95



Electro-Motive Diesel SD70M-2



Norfolk Southern - SD70M-2 Diesel Engine w/Proto-Sound 3.0

80-2014-1	Cab No. 2649	\$249.95
80-2015-1	Cab No. 2651	\$249.95
80-2016-1	Cab No. 2654	\$249.95

Norfolk Southern - SD70M-2 Diesel Engine (DCC Ready)

80-2014-0	Cab Number 2649	\$189.95
80-2015-0	Cab Number 2651	\$189.95
80-2016-0	Cab Number 2654	\$189.95

Florida East Coast - SD70M-2 Diesel Engine w/Proto-Sound 3.0

80-2020-1	Cab No. 100	\$249.95
80-2021-1	Cab No. 102	\$249.95
80-2022-1	Cab No. 103	\$249.95

Florida East Coast - SD70M-2 Diesel Engine (DCC Ready)

80-2020-0	Cab Number 100	\$189.95
80-2021-0	Cab Number 102	\$189.95
80-2022-0	Cab Number 103	\$189.95



Canadian National - SD70M-2 Diesel Engine w/Proto-Sound 3.0

80-2026-1	Cab No. 8000	\$249.95
80-2027-1	Cab No. 8010	\$249.95
80-2028-1	Cab No. 8023	\$249.95

Canadian National - SD70M-2 Diesel Engine (DCC Ready)

80-2026-0	Cab Number 8000	\$189.95
80-2027-0	Cab Number 8010	\$189.95
80-2028-0	Cab Number 8023	\$189.95

Florida East Coast - SD70M-2 Diesel Engine w/Proto-Sound 3.0

80-2029-1	Cab No. 106	\$249.95
80-2030-1	Cab No. 105	\$249.95
80-2031-1	Cab No. 107	\$249.95

Florida East Coast - SD70M-2 Diesel Engine (DCC Ready)

80-2029-0	Cab Number 106	\$189.95
80-2030-0	Cab Number 105	\$189.95
80-2031-0	Cab Number 107	\$189.95



EMD Demonstrator - SD70M-2 Diesel Engine w/Proto-Sound 3.0

80-2017-1	Cab No. 74	\$249.95
80-2018-1	Cab No. 75	\$249.95
80-2019-1	Cab No. 76	\$249.95

EMD Demonstrator - SD70M-2 Diesel Engine (DCC Ready)

80-2017-0	Cab Number 74	\$189.95
80-2018-0	Cab Number 75	\$189.95
80-2019-0	Cab Number 76	\$189.95

M.T.H. HO Train Sets Are More Fun!

M.T.H. HO sets are fully compatible with all other brands of HO trains and can serve as the foundation of an HO empire. With an M.T.H. set, you'll experience more fun because they feature the sights and sounds that make real trains dramatic and exciting - features that you can control from the handheld Remote Digital Commander as you walk around your layout:

Speed Control

Many toy trains have two speeds: fast and faster. M.T.H. sets equipped with Proto-Sound sound and control systems allow our engines to throttle down to a s-l-o-w crawl, highball down the main line, or maintain any speed in-between. The Proto-Speed Control built into Proto-Sound locomotives acts like the cruise control on a car, keeping your train moving at the speed you select, regardless of hills and curves.

Vivid Engine Sounds

Proto-Sound features crystal clear digital sounds; the wail of a diesel horn; the melody of an authentic steam whistle; the bell altering passengers to your arrival or departure; steam chuff or diesel roar; and crew conversations.

Proto-Effect Sounds

Freight engines include Freight Yard Proto-Effects, a symphony of freight terminal sounds.

M.T.H. Ready-to-Run HO train sets include track, power supply, remote* or controller.

**Remote found in Proto-Sound 3.0 sets only.*

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 2.0 or 3.0 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. 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 or shutdown sounds, and control the front or rear Proto-Couplers with this lightweight, easy-to-use remote.

DCC Remote Commander Set
50-1033 \$49.95

HO RealTrax

At M.T.H. Electric Trains, we believe a track system should allow your model railroad empire to grow. The RealTrax system includes 18" and 22" curves as well as 9" straight lengths that make a perfect solution for your first model railroad empire. And every piece of RealTrax is **rugged, realistic,** and **reliable** so you can have fun running your trains.



**Proto-Sound 2.0 or later*



HO Ready-To-Run Set Features

HO Scale Sets include:

- Locomotive
- 3-Car freight consist with hopper, gondola, and lighted caboose, all with metal wheels and axles
- Kadee®-compatible operating knuckle couplers on engine and cars
- 14-Piece, 36" x 45" RealTrax Oval with removable roadbed
- Proto-Sound 3.0 sets include UL-approved 24-watt transformer with DCS Remote Commander handheld remote control

- Non-Proto-Sound sets include UL-approved 24-watt transformer with Controller
- Track re-railer with track-to-transformer wire harness

HO Scale F3 Diesel Engines Feature:

- Intricately detailed, durable ABS body
- Powerful 12-Volt 5-Pole Precision Skew-Wound Flywheel Equipped Motor driving all eight wheels
- All-metal wheels and gears
- Operating headlight

- Kadee®-compatible operating knuckle couplers
- Proto-Sound 3.0 locomotives include sound and control system featuring locomotive speed control and CD-quality digital sounds that include horn, bell, authentic EMD diesel motor, Passenger or Freight Station Proto-Effects, crew conversations, and atmospheric sounds.
- Non-Proto-Sound equipped locomotives feature a powerful motor and are DCC ready

Santa Fe F3 Ready-To-Run Freight Set



The Atchison, Topeka and Santa Fe Railway stretched from Chicago to the Gulf of Mexico and the Pacific Ocean. Almost everywhere in the Midwest and the Southwest, Santa Fe trains were a part of daily life, carrying passengers and freight for more than a century. Santa Fe diesels hustled freight across plains, through deserts, and over mountains until 1996, when the AT&SF merged with the Burlington Northern to form the Burlington Northern Santa Fe — which is today one of America's largest and most successful railroads.

Move the freight on your own railroad with this colorful set, headed by a powerful diesel decorated in the Santa Fe's classic "warbonnet" paint scheme. The Proto-Sound version of this set features digital sound and the revolutionary speed control found only in M.T.H. locomotives. Add extra cars for even more fun — this locomotive has plenty of power to pull them!



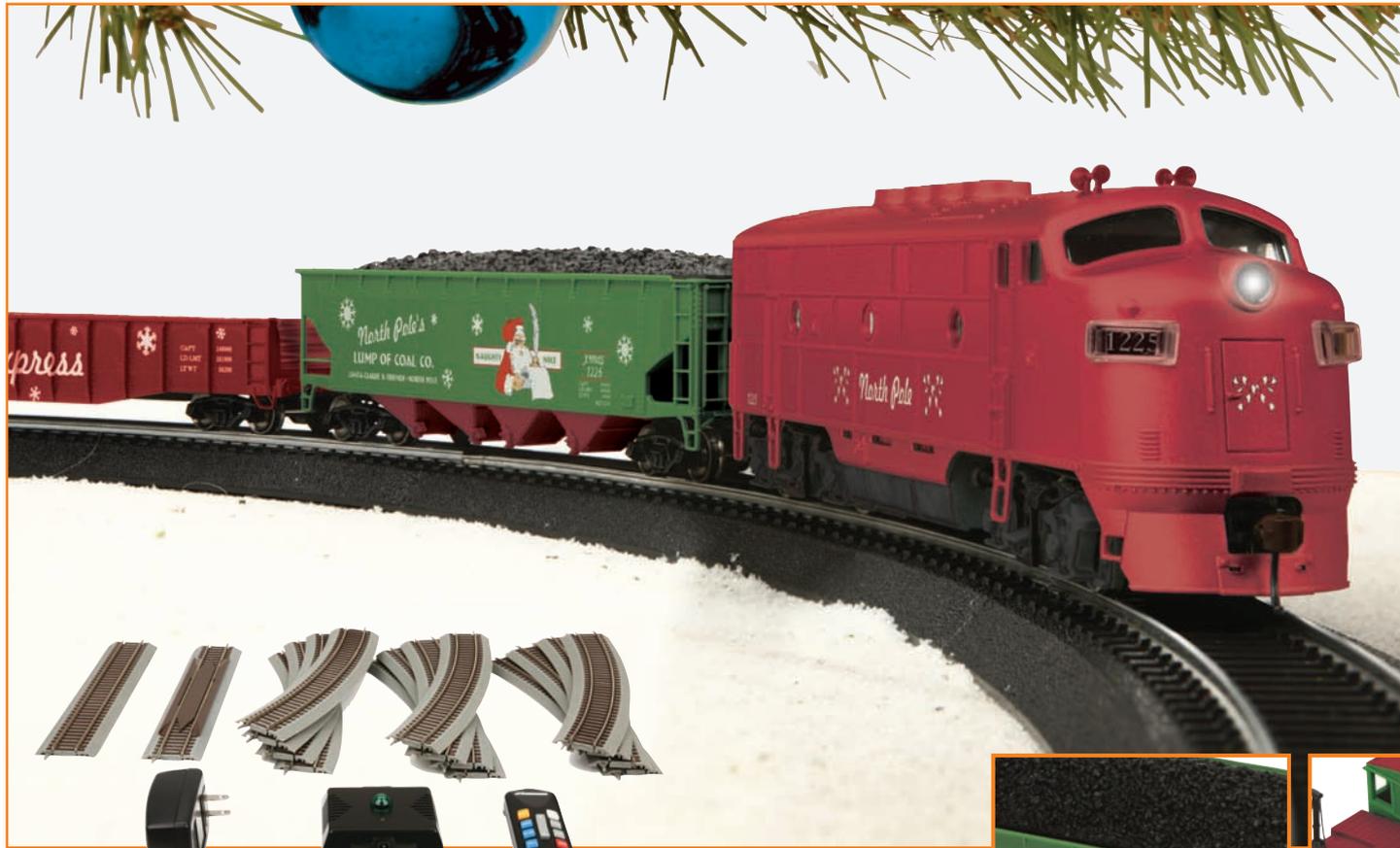
**Proto-Sound
Set Includes
Remote Control**



Santa Fe - F3 Diesel Deluxe Freight Train Set
 81-4001-1 w/Proto-Sound 3.0 \$199.95
 81-4001-0 \$139.95

Santa Fe - F3 A Unit Diesel Engine
 81-2001-1 w/Proto-Sound 3.0 \$139.95
 81-2001-3 Non-Powered \$49.95
 81-2001-0 DCC-Ready \$79.95

Christmas F3 Ready-To-Run Freight Set



For more than a century, toy trains and Christmas have been a magical combination. What better way to create your own family's version of a classic tradition than to include this beautifully decorated Christmas set around your tree. Trimmed in traditional Christmas colors, the M.T.H. Christmas Express freight set captures the spirit and fun of model railroading in an affordable train set that will last for years. And when you want to expand your railroad, the rugged, eight-wheel-drive Christmas diesel has all the power you'll need to pull a long string of cars.

Trailing the locomotive are three cars bearing distinctive Christmas paint schemes. As with all of our HO sets, the Christmas Express outfit is compatible with all standard HO trains. This set includes everything you need to begin your model railroading adventure, including a powerful transformer and a large 36" x 45", 14-piece Realtrax oval that assembles in minutes and can be placed right on the carpet or floor for a quick, temporary layout.

In addition, the Proto-Sound version of the Christmas Express features CD-quality sounds that will amaze your friends and family. Imagine their faces when the horn blares, the bell clangs, the diesel motor revs up as you advance the throttle, and the conductor announces Santa's next station stop!

**Proto-Sound Set
Includes Remote Control**



Christmas - F3 Diesel Deluxe Freight Train Set
81-4006-1 w/Proto-Sound 3.0 \$199.95
81-4006-0 \$139.95

Christmas - F3 A Unit Diesel Engine (Non-Powered)
81-2006-3 \$49.95

Harley-Davidson® F3 Ready-To-Run Freight Set



Celebrating the firm that has been America's premier motorcycle builder for more than 100 years, this Harley-Davidson® freight set is a great way to introduce a newcomer to model railroading. Decorated in classic Harley-Davidson® colors, our creative adaptation of the EMD F3 diesel features a rugged eight-wheel drive with the power to meet heavy freight hauling demands as your railroad expands. The all-metal gears, wheels, and axles will ensure a lifetime of fun.

In addition, the Proto-Sound version features sounds that will amaze friends and family alike. Imagine their faces when the horn blares, the bell rings, and the exclusive Freight Yard Proto-Effects begin playing the classic sounds of Harley-Davidson® motorcycles loading up at the factory!

Trailing the locomotive are three cars bearing the distinctive Harley-Davidson® logo. As with all of our HO sets, this Harley-Davidson® outfit includes everything you need to begin your model railroading adventure, including a powerful transformer and a large 36" x 45", 14-piece Realtrax oval.

Proto-Sound Set Includes Remote Control



Harley-Davidson® - F3 Diesel Deluxe Freight Train Set
 81-4003-1 w/Proto-Sound 3.0 \$209.95
 81-4003-0 \$149.95



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Harley-Davidson® - F3 A Unit Diesel Engine (Non-Powered)
 81-2003-3 \$49.95

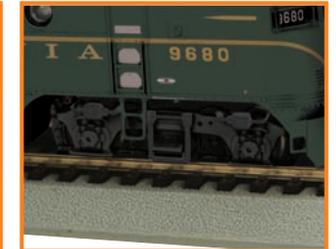
Pennsylvania F3 Ready-To-Run Freight Set



The EMD F-unit, built by the Electro-Motive Division of General Motors, was "the diesel that did it" - vanquished the steam engine from American railroads. In 1939-40, a quartet of F-units barnstormed across 35 states, logging 83,764 miles on 20 railroads and proving once and for all that diesels were the wave of the future.

One of EMD's largest customers was the Pennsylvania Railroad. On Pennsy mainlines from the east Coast to Chicago, new EMD diesels displaced the Pennsy-designed steamers that had been the symbols of the "P Company." While other diesel manufacturers competed with EMD, the various versions of the ubiquitous F-unit — FT, F3, and F7 — became the icons of the diesel revolution. This set recreates the power and excitement of the Pennsylvania diesels that hauled freight westward over the Allegheny Mountains; our Proto-Sound version includes the authentic chant of an F3 motor, blaring horn, ringing bell, and other sounds including crew conversations.

Proto-Sound Set Includes Remote Control



Pennsylvania - F3 Diesel Deluxe Freight Train Set

81-4002-1	w/Proto-Sound 3.0	\$199.95
81-4002-0		\$139.95

Pennsylvania - F3 A Unit Diesel Engine

81-2002-1	w/Proto-Sound 3.0	\$139.95
81-2002-3	Non-Powered	\$49.95
81-2002-0	DCC-Ready	\$79.95

M&M'S® F3 Ready-To-Run Freight Set



In the days before air conditioning, eating chocolate in the summer was a messy affair. Legend has it that Forrest Mars Sr., son of the founder of Mars, Inc., got the inspiration for M&M'S® in the late 1930s. On a trip to Spain during the Spanish Civil War, he encountered soldiers eating pellets of chocolate encased in a hard sugary coating that prevented it from melting. Back at his kitchen, Mr. Mars invented the recipe for M&M'S® Plain Chocolate Candies just in time for M&M'S® to become a favorite snack of American soldiers in World War II. In 1954 the famous slogan "The milk chocolate that melts in your mouth-not in your hand"® debuted in the first M&M'S® candy TV ads, and in 1972 the candies became animated characters.

Add the color and humor of the M&M'S® Spokescandies to your own railroad with this powerful diesel freight set featuring M&M'S® cars. The Proto-Sound version includes the authentic chant of an F3 diesel motor, blaring horn, ringing bell, and other sounds including crew conversations.



Proto-Sound Set Includes Remote Control



M&M'S® - F3 Diesel Deluxe Freight Train Set
 81-4004-1 w/Proto-Sound 3.0 \$209.95
 81-4004-0 \$149.95

M&M'S® - F3 A Unit Diesel Engine (Non-Powered)
 81-2004-3 \$49.95



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70-Ton Quadruple Hopper



Baltimore & Ohio - 70-Ton Quadruple Hopper Car
 80-75000 Number 432810 \$19.95
 80-75001 Number 432828 \$19.95
 80-75002 Number 432836 \$19.95



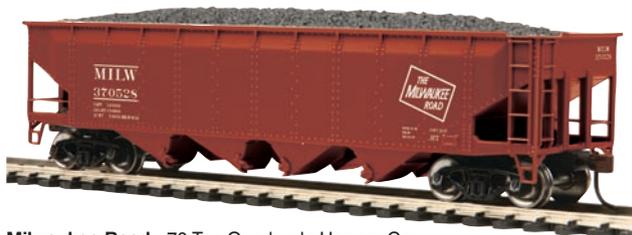
Boston & Maine - 70-Ton Quadruple Hopper Car
 80-75003 Number 8772 \$19.95
 80-75004 Number 8775 \$19.95
 80-75005 Number 8780 \$19.95



MKT - 70-Ton Quadruple Hopper Car
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 80-75016 Number 40036 \$19.95
 80-75017 Number 40020 \$19.95



Erie - 70-Ton Quadruple Hopper Car
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 80-75010 Number 39170 \$19.95
 80-75011 Number 39192 \$19.95



Milwaukee Road - 70-Ton Quadruple Hopper Car
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Chesapeake & Ohio - 70-Ton Quadruple Hopper Car
 80-75006 Number 72570 \$19.95
 80-75007 Number 72575 \$19.95
 80-75008 Number 72563 \$19.95

70-Ton Mill Gondola



New York Central - 70-Ton Mill Gondola Car
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 80-72007 Number 713023 \$18.95
 80-72008 Number 713037 \$18.95



Erie - 70-Ton Mill Gondola Car
 80-72003 Number 11820 \$18.95
 80-72004 Number 11828 \$18.95
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Nickel Plate Road - 70-Ton Mill Gondola Car
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 80-72001 Number 82002 \$18.95
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40' PS-1 Box Car



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 81-74007 Number 174028 \$19.95
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Norfolk & Western - 40' PS-1 Box Car
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Union Pacific - 40' PS-1 Box Car
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Western Pacific - 70-Ton Mill Gondola Car
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Pere Marquette - 70-Ton Mill Gondola Car
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READY **2** RAIL

Ready 2 Rail™ provides the superior quality and detailing you've come to expect from M.T.H. coupled with a competitive price point for the entry-level hobbyist. These cars offer the same construction and body detailing as their more expensive counterparts, but designed for the budget-minded model railroader. It's the perfect way to add to a Ready-To-Run set or to introduce someone new to the hobby.

USRA 55-Ton Steel Twin Hopper



Pittsburgh & West Virginia - USRA 55-Ton Steel Twin Hopper
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Pittsburgh & West Virginia - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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Pittsburgh & West Virginia - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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Central Railroad of Pennsylvania - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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Denver Rio Grande - USRA 55-Ton Steel Twin Hopper 
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Denver Rio Grande - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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 = **Imagination and Fun**

While we take pride in the prototype accuracy of most of our HO products, you will find items in this and future catalogs bearing an  designation (and item numbers with an "81" prefix) that may feature imaginary graphics or stray from historical accuracy. These  products are exciting and enjoyable for railroaders who like to use their imagination and just have some fun.



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Pennsylvania - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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New York Central - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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Baltimore & Ohio - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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Baltimore & Ohio - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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Western Maryland - USRA 55-Ton Steel Twin Hopper
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Western Maryland - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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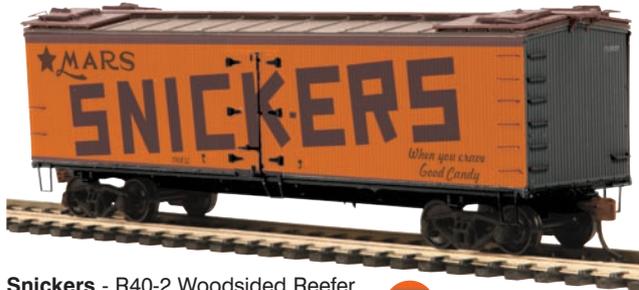
Western Maryland - 6-Car USRA 55-Ton Steel Twin Hopper Car Set
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HO Freight Features

- Intricately Detailed Durable ABS Body
- Metal Wheels and Axles
- Fully Sprung Die-Cast 4-Wheel Metal Trucks
- Kadee® Compatible Couplers
- Brake Wheels
- 1:87 Scale Dimensions

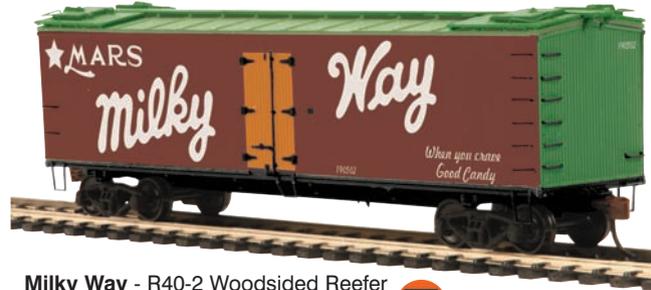
R40-2 Woodsided Reefer



Snickers - R40-2 Woodsided Reefer
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Milky Way - R40-2 Woodsided Reefer
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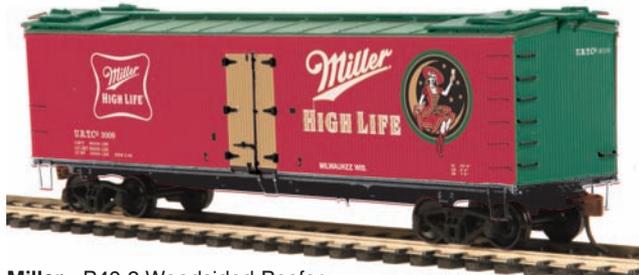
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Dr Pepper - R40-2 Woodsided Reefer
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Miller - R40-2 Woodsided Reefer
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Coors - R40-2 Woodsided Reefer
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38 Pacific Fruit Express - 6-Car R40-2 Reefer Set
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HO Passenger Car Features

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- Metal Wheels and Axles
- Overhead Interior LED Lighting
- Detailed 4-Wheel Trucks
- Authentic Paint Scheme
- Operating End-of-Car Diaphragms
- Separate Metal Handrails
- Detailed Car Interiors
- Kadee-Compatible Couplers
- Detailed Car Undercarriage
- 5-Car Sets Feature: (1) Combine Car, (1) Coach Car, (1) Tavern Car, (1) Parlor Car, (1) Observation Car
- Unit Measures: 11 1/2" x 1 7/16" x 1 7/8"
- Operates On 22" Radius Curves

Passenger Cars



Empire State Express - Tavern-Lounge-Baggage Car
80-60026 \$69.95



Empire State Express - 2-Car Coach Passenger Set
80-60027 \$134.95



Empire State Express - 2-Car Parlor/Diner Passenger Set
80-60028 \$134.95



Empire State Express - 5-Car Passenger Set
80-60025 \$329.95



Southern Pacific - Articulated Chair/Chair Passenger Car Set w/Antenna

80-60002 \$134.95
80-60003 \$134.95

Southern Pacific Lines - Articulated Chair/Chair Passenger Car Set w/Antenna

80-60008 \$134.95
80-60009 \$134.95



Southern Pacific - Chair Car

80-60006 \$69.95

Southern Pacific Lines - Chair Car

80-60012 \$69.95

Each car individually numbered — see online for numbering details.



Southern Pacific - Articulated Chair/Chair Passenger Car Set

80-60004 \$134.95
80-60005 \$134.95

Southern Pacific Lines - Articulated Chair/Chair Passenger Car Set

80-60010 \$134.95
80-60011 \$134.95



Southern Pacific Lines - 8-Car Passenger Set

80-60007 \$499.95

Southern Pacific - 8-Car Passenger Set

80-60001 \$499.95

8-Car Sets Include: (1) Baggage, (1) Coffee/Kitchen/Diner Articulated Set, (1) Tavern Car, (1) Parlor Car, (1) Single Chair Pass Car, (1) Observation Car



Norfolk & Western
Coach No. 540
80-60014 \$69.95

Norfolk & Western
Coach No. 537 (not shown)
80-60016 \$69.95



Norfolk & Western - Diner No. 492
80-60015 \$69.95



Norfolk & Western - 5-Car Passenger Set
80-60013 \$329.95

- 5-Car Sets Include:**
 (1) Compartment (Divided) Coach No. 511,
 (1) Crew Coach No. 501,
 (1) Coach No. 532, (1) Diner No. 491,
 (1) Tavern-Lounge-Observation No. 581



Norfolk & Western - Compartment (Divided) Coach No. 511
(included in 5-car sets)



Twentieth Century (1940) - 2-Car Sleeper Passenger Set
80-60019 \$134.95

Twentieth Century (1938) - 2-Car Sleeper Passenger Set
80-60024 \$134.95



Twentieth Century (1940) - 2-Car Sleeper Passenger Set
80-60020 \$134.95

Twentieth Century (1938) - 2-Car Sleeper Passenger Set
80-60023 \$134.95



Twentieth Century (1940) - 4-4-2 Sleeper Passenger Car
80-60018 \$69.95

Twentieth Century (1938) - 4-4-2 Sleeper Passenger Car
80-60022 \$69.95



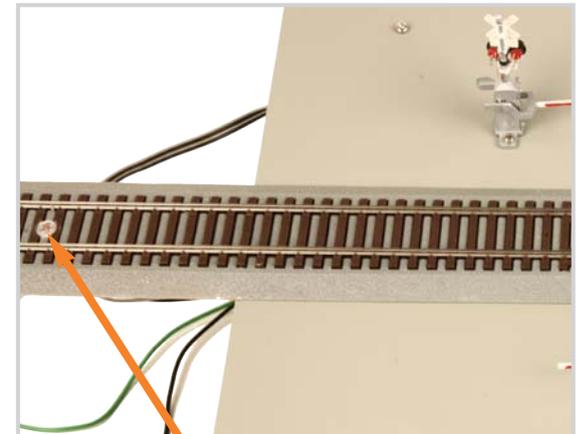
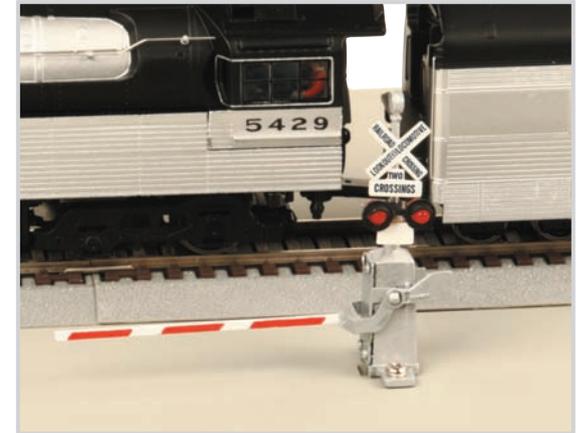
Twentieth Century (1938) - 5-Car Passenger Set
80-60021 \$329.95



Twentieth Century (1940) - 5-Car Passenger Set
80-60017 \$329.95



Operating Crossing Signals



Operating Crossing Signals
80-10001 \$179.95

- **Flashing warning lights**
- **Slow-motion crossing gates**
- **Ringing warning bell**
- **Guards up to four tracks**



For the first time, operating crossing signals come to the HO marketplace in an easy-to-install package that can be up and running in short order! Each die-cast crossing signal features flashing LED warning lights and the set includes warning bell sounds.

Each crossing signal is fully decorated and ready-to-install with just two mounting screws. The signals are controlled by a modular harness and activation lever that extend down through the base of the layout to easily installed control boxes. Like the signals themselves, each control box attaches to the underside of the platform with just two screws and features modular plugs to accept the harness from the signal.

Activation of the signals is handled through two sensors for each track. The crossing signal set can handle up to four tracks at once. The sensors are installed in the base of each track before and after the grade crossing by drilling a small hole through the track and platform. Insert the sensors up through the underside of the platform, plug in each sensor set to the master control box and you're ready to run!

Features

- Die-Cast Construction
- Fully Assembled
- Fully Painted
- Motorized Under Table Control Boxes
- Controls 1 to 4 Tracks
- Multi-Direction Functionality
- Easily Installed In-Track Train Sensors
- Operating Bell With Volume Adjustment
- Flashing LED Warning Lights
- Modular Plug Connections For Easy Setup
- Installs On Benchwork Up To 1 1/2 Inches Thick
- Includes User Installed Track Signs For 1 to 4 Tracks
- Unit Measures: 2 1/8" High

Z-Series DC-300 Transformer



30 Watt DC Transformer
40-300 \$99.95

If you're looking for a reliable HO power source, the Z-Series DC-300 transformer from M.T.H. Electric Trains is a perfect choice. Featuring 30 watts of power and a 16 volt AC accessory port, the CSA approved DC-300 will comfortably run up to five HO locomotives.

Thanks to the AC accessory port, the DC-300 can throw a turnout or light up a town's building and house lights while still allowing your locomotives to challenge steep grades or pull a long consist. The DC-300 outputs power in minute increments that ensure your locomotives will operate smoothly and realistically.

Equipped with boost, brake and direction buttons, the DC-300 provides the operator with the control needed to conventionally operate your HO pike.

Operators using the DC-300 with M.T.H. HO locomotives equipped with Proto-Sound 3.0 have access to a special "M.T.H. Brake" mode that slowly stops the engine but keeps its lights and sound on. When the M.T.H. Brake is turned off, the locomotive will begin moving and slowly ramp up to the previous throttle setting.

Features

- Controller LED On Light
- Overload Light
- Power On Switch
- Momentum Control
- Brake Control
- Direction Control
- Smooth Operating Throttle Knob
- Built-In Circuit Breaker Protection
- 30 Watt Power Supply w/16v AC Accessory Output Jacks
- 5-Year Limited Warranty
- CSA Approved
- Unit Measures: 7 1/2" x 5 1/4" x 3 3/4"

Smoke Fluid



ProtoSmoke™ Fluid (7oz.)

Unscented	60-1045	\$12.95
Christmas	60-1046	\$12.95
Coal	60-1047	\$12.95
Diesel	60-1048	\$12.95
Woodburning	60-1049	\$12.95

ProtoSmoke™ Fluid (2 Oz.)

Assortment (36 pieces)	60-1051	\$179.95
Christmas	60-1051-a	\$4.99
Coal	60-1051-b	\$4.99
Diesel	60-1051-c	\$4.99
Wood Burning (Hickory)	60-1051-d	\$4.99
Coffee	60-1051-e	\$4.99
Eggs & Bacon	60-1051-f	\$4.99
Vanilla	60-1051-g	\$4.99
Candy Cane	60-1051-h	\$4.99
Barbeque	60-1051-i	\$4.99
Pipe Smoke	60-1051-j	\$4.99
Cinnamon Roll	60-1051-k	\$4.99
Apple Pie	60-1051-l	\$4.99



No Matter How You Run It

Your new Proto-Sound® 3.0 locomotive has more features than any engine you've ever owned

Analog DC

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

- **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 maintenance sounds — like the whoosh of steam cocks being opened
- **Prototypical Rule 17 lighting:** the headlight dims automatically when the engine comes to a stop, and the tender light illuminates for backup moves
- **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



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, even though controllers that access these NMRA standard functions are just now becoming available..

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 1 or 8 for the complete list)

DCS Commander

Insert a DCS Commander in the wires from your existing DCC system to the track and you can switch back and forth between DCC and DCS with the push of a button. Or use the Commander alone with your own DC power supply.

The DCS Commander offers intuitive control of multiple Proto-Sound engines; for each locomotive, more than 32 functions are available at the touch of a single, clearly-labeled button, including:

- **Speed adjustment in one-scale-mile-per-hour steps**
- **Independent feature control:** tune your engines' sound, lights, smoke and acceleration/deceleration settings
- **Smoke on/off**
- **Doppler sounds:** simulate the classic sound effect of a train approaching and then whizzing past
- **Accent sounds:** activate any one of 7 individual sounds, including forward and reverse signal sounds and more
- **Activate Passenger Station and Freight Yard Sounds**
- **Individual locomotive control:** control up to 10 Proto-Sound 3.0 engines at the same time, on the same track
- **Selectable control configurations:** choose between analog DC, DCC* and DCS modes

* Customer-supplied DCC system required



DCS Commander System w/100 watt power supply
50-1029 \$229.95

DCS Commander Controller
50-1028 \$149.95

DCS Remote Control System

Run your entire layout from one wireless handheld — or several. With a DCS Remote Control System, you can operate up to 99 Proto-Sound 3.0 engines in command mode at the same time, with full access to all locomotive functions. Add an optional Accessory Interface Unit (AIU) and the same handheld controls hundreds of switches or accessories. For group operating sessions, equip each guest with their own full-featured handheld.

**Unlike the DCS Commander, the DCS Remote Control System is not compatible with DCC systems.



DCS Remote Control System
50-1001 \$299.95
(requires separate power supply)



DCS Accessory Interface Unit (AIU)
50-1004 \$99.95



More Features Than Analog DC or DCC Command Control

SMOKE - Turns Smoke Unit on & off
HDLT - Turns Headlights on & off
ENGINE SOUND - Silences Engine Sounds
DOPPLER - Activates Proto-Doppler™
PFA - Activates Passenger/Freight Sounds

SFS - Plays Forward Signal Sound
SRS - Plays Reverse Signal Sound
VOL+ - Globally increases all sounds
START UP - Activates sound, smoke & lights
VOL- - Globally decreases all sounds
SHUT DOWN - Deactivates all sound, smoke & lights

CONV - Activates Conventional Mode
DCS - Activates Command Mode
MOM - Adjusts Engine Momentum
ADD - Adds PS 3 engines

LCD DISPLAY

SCS - Plays coupler slack sound
LIGHTS - Turns loco lights on & off
ALL - Selects all engines
STA MODE - Selects Station Mode
STA SEL - Activates Station Stop sounds
STW - Plays Train Wreck sound

EDIT
Edits engine addresses
DEL
Deletes engines
RESET
Resets PS 3 engines
PASS THRU
Sends DCC signals to track from DCC system**

AUX 1-3
Auxiliary buttons
CPLR-F/CPLR-R*
Fires front & rear couplers
BOOST/BRAKE
Temporarily raises or lowers speed
LABOR/REV UP OR DRIFT/REV DN
Makes an engine sound like its working harder (labored steam chuff or higher revving diesel) or easier (drifting chuff or lower revving diesel)

E STOP - Cuts power to all tracks
BELL - Rings Bell
ENG - Engine Menu (To Select and Control Engines)
SEL - Selects or activates a setting

THUMBWHEEL
Sets throttle speed & voltage setting

W/H - Whistle/Horn
DIR - Changes locomotive direction

The DCS Commander is the easiest way to access the dozens of command control functions already programmed into your M.T.H. HO locomotive. The Commander features clearly-labeled, one-button control of more than 32 engine functions; no function keys or special codes to remember; and more features than any DCC system made today. Use the engine menu to select and control up to 10 different DCS engines from a single Commander at the same time on the same track — or switch back to DCC or analog DC operation with the push of a button.



In DCS mode, the large LCD screen identifies your locomotive's number and provides readouts for scale speed and active features.



In conventional mode, the LCD provides track voltage and amperage level readouts, making the Commander a full-featured DC controller.

Adding a DCS Commander to your existing layout is simple: just insert it into the wires that connect your DC transformer or DCC system to the track. The Commander can accept any power input (AC, DC or DCC) and output analog DC with volt and current display. The Commander also acts as a passive conduit for your DCC signal until you press the button to switch to DCS or conventional operation.

MTH Trademarks: M.T.H. Electric Trains®, M.T.H.®, MTH Railroaders Club™, Ives®, Loco-Sound™, Proto-Sound® 2.0, Proto-Sound® 3.0, Proto-Speed Control™, Proto-Doppler™, Proto-Dispatch™, Proto-Cast™, ProtoSmoke™, Proto-Coupler™, Proto-Effects™, RailKing®, Rugged Rails®, RailKing One-Gauge™, RailTown™, Tinplate Traditions™, ScaleTrax™, RealTrax®, Z-500™, Z-750™, Z-4000™, Z-1000™, Z-4000 Remote Commander™, DCS™ and the MTH Numbering System and all others indicated throughout this catalog.

DCS™ Simply The Best Way To Run A Railroad™
M.T.H.'s DCS Digital Command System has received U.S. Patent No. 6,457,681. M.T.H.'s Proto-Sound® 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), 6,280,278 (Proto-Smoke). M.T.H.'s RealTrax has received U.S. Patent No. 6,019,289. M.T.H.'s Z-4000 Transformer has received U.S. Patent No's. 6,281,606 & 6,624,537.

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* Operating couplers are available only on diesels at this time.

** Customer supplied DCC system Required

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See DCS In Action For Yourself

Visit Your Local DCS Demo Center

DCS is the best way to run a railroad, but don't just take our word for it, see it in action for yourself at one of our DCS HO Demo Centers.



The list to the right includes our current HO DCS Demo Centers. If your favorite retailer isn't listed, let them know that you'd like to see DCS in action. You can also see local railroad clubs putting DCS through its paces by visiting www.protosound2.com and clicking on the DCS Show link located at the bottom of the page.

CALIFORNIA

ARNIES TRAINS

6452 Industry Way #B, Westminster, CA 92683
(714) 893-1015

Hobby Club USA

10820 Central Ave., Ontario, CA 91762
(909) 628-4300

ROGER'S RAILROAD JUNCTION

105 S Sacramento St., Lodi, CA 95240
(209) 334-5623

FLORIDA

READY TO ROLL

831 NW 143rd St., Miami, FL 33168
305-688-8868

ROUNDHOUSE SOUTH

4611 S. Ridgewood Ave., Port Orange, FL 32127
(386) 304-7002

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1610 Park Ave, Orange City, FL 32763
(386) 775-2891

GEORGIA

TRAINZ.COM

2740 Faith Industrial Drive, Buford, GA 30518
(770) 271-1701

IOWA

BOONE HOBBIES

804 Story St., Boone, IA 50036
(515) 432-2361

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25470 Point Lookout Road, Leonardtown, MD 20650
(301) 475-5381

M.B. KLEIN, ONC.

243-A Cockeysville Rd., Cockeysville, MD 21030
(410) 229-9995

MASSACHUSETTS

SILVER CITY HOBBY -THE HOBBY SHOP

25 Carmicle Dr., Taunton, MA 02780
(508) 930-3126

MICHIGAN

WILD BILL'S TRAINS & TOYS

36333 Groesbeck Hwy., Clinton Twp., MI 48035
(586) 792-0530

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ADVANCED MODEL RAILROAD & HOBBY SUPPLY

28617 State Hwy 55, Lowry, MN 56349
(320) 283-5850

NEVADA

WESTSIDE TRAINS

2960 South Durango #117, Las Vegas NV 89117
(702) 254-9475

NEW HAMPSHIRE

BRENTWOOD ANTIQUES

106 Lafayette Rd., Hampton Falls, NH 03844
(603)929-1441

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TRAINS & THINGS

246 Scotch Road, Trenton, NJ 08628
(609) 883-8790

THE HOBBY SHOP

1077C Highway 34, Aberdeen, NJ 07747
(732)583-0505

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2716 Erie Boulevard East, Syracuse, NY 13224
(315) 451-6551

NASSAU HOBBY CENTER, INC.

13 W. Merrick Road, Freeport, NY 11520
(516) 378-9594

TRAIN LAND

293 Sunrise Hwy, Lynbrook, NY 11563
(516) 599-7080

TRAINWORLD

751 McDonald Ave., Brooklyn, NY 11218
(718) 436-7072

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DIXIE UNION STATION

110 W. Main St., Mason, OH 45040
(513) 459-0460

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368 Lincon Ave., Lancaster, OH 43130
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(724) 838-8448

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(724) 452-6130

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90 W. Church St., Fairchance, PA 15436
(724) 564-7817

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905-826-1306

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1260 Quigley Hill Road
Cumberland, Ontario K4C 1H3
613-833-8331

We don't think we're exaggerating when we say M.T.H. has the most useful train manufacturer's site on the Internet. Here's just a sample of the answers you can find online.



1 CAN I SEE AND HEAR IT IN ACTION ...?

Click on Video — only M.T.H. gives you the chance to see and hear locomotives and other products in action, before you buy.

2 WHAT'S THE LATEST INFO ON ...?

Use Product Search to find the latest info on new products before they're delivered — sound sets, cab numbers, feature and paint scheme updates, and other information that arrived after the catalog was published.

DID YOU EVER MAKE?

Use Product Search to search through nearly all of the 17,000 items we've made in the past 30 years, for your favorite road name, engine, or type of rolling stock.

3 DOES ANY DEALER STILL HAVE ...?

Locate hard-to-find items with our Product Locator, which searches the inventories of M.T.H. dealers across the country.

4 WHEN IS IT COMING?

Our online Shipping schedule is updated frequently to let you know what's coming soon to your hobby shop.

5 ARE YOU GOING TO MAKE?

View the last several M.T.H. Catalogs online.

6 HOW CAN I FIX...?

The Service area of our site allows you to email a question to our factory technicians or find which of our 150+ local service centers is closest to you.

WHAT REPAIR PART DO I NEED?

Use Product Search to find exploded diagrams and parts lists for M.T.H. locomotives and accessories, and then order the parts online or by phone.

7 WHAT'S NEW?

New arrivals and other news are posted frequently on our home page.

8 HOW CAN I BE AMONG THE FIRST TO KNOW?

To get the news as it happens, sign up for our free weekly electronic newsletter, with information on new M.T.H. products, industry news, and sneak peeks at upcoming specials!

9 HOW CAN I LEARN MORE ABOUT DCS?

Follow the link to the protosound2.com Web site for DCS and Proto-Sound 2.0 information — and a list of Authorized DCS Demo Centers where you can try DCS hands-on.

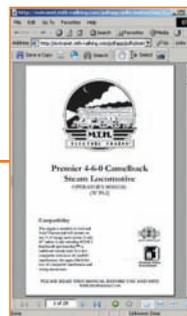
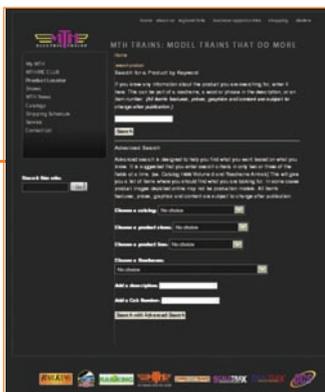
HOW CAN I UPDATE MY DCS SYSTEM OR CHANGE A SOUND SET?

Only M.T.H. allows you to update your control system or change an engine's sound set right over the Internet. Follow the link to the protosound2.com Web site for DCS and Proto-Sound 2.0 downloads.



HOW DOES IT WORK?

Misplaced an instruction manual or just want to know how a product works? Use Product Search to look up the item and view its instruction manual.





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