

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 Digitial 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.

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.

MULTIPLE UNIT CAPABILITY

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



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 sounds play automatically at random when using a conventional transformer — or can be activated manually from a DCC controller or the DCS handheld.

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.

LIGHTING EFFECTS

Proto-Sound locomotives feature prototypical Rule 17 lighting, including a variety of prototypical 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.

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 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

All 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
- Bell
- Whistle/Horn
- Start Up/Shut Down
- Rear Coupler
- Front Coupler
- Engine Sounds On/Off
- Sound Volume
- Smoke On/Off
- Forward Signal
- Reverse Signal
- Grade Crossing Signal
- Cab/All Light On/Off
- Smoke Volume
- Coupler Close

- One-Shot Doppler
- 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
- Coupler Slack Sound
- Labor Chuff
- Drift Chuff
- Train Wreck
- PFA Activate/Cycle
- 117(7(ottvato/Oyoto

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.

Who is M.T.H.?

While our name may be new to HO model rail-roaders, 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 28 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 rail-roading. 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.

Products bearing Chicago and North Western, Denver & Rio Grande Western, MKT/Katy, Missouri Pacific/MoPac, Southern Pacific, Union Pacific, and Western Pacific names are made under trademark license from Union Pacific Railroad Company.

www.mthHOtrains.com

See '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.



 ^{*} Check your DCC Controller's manual to see how many features it can access. See page 8 for DCC diesel features.

2-8-2 USRA Light Mikado



During World War I, Uncle Sam nationalized the railroads when they proved unequal to the task of moving massive amounts of men and materiel for the war effort. The agency that ran the trains was the United States Railroad Administration, or USRA, and one of its chief accomplishments was the creation of 12 steam engine designs that lasted for decades. According to the American Society of Mechanical Engineers, USRA locomotives were "the first successful standardization of American motive power" — and the only standard designs until the diesel era.

The most popular of the USRA designs was the 2-8-2 Mikado, which was heavy main line steam power in the World War I era. USRA Mikados came in a light version with a smaller axle loading for lighter rail and a heavy version for use on heavier rail. Under the USRA, 625 Light Mikes were turned out by the "Big Three" American locomotive builders — Alco, Baldwin, and Lima — representing more than a third of all governmentbuilt engines.

Constructed with dozens of added-on detail parts, the USRA Light Mikado joins the M.T.H. HO lineup for 2008. While other 2 manufacturers have offered fine models of this classic engine, we believe none matches the combination of accurate details, sound quality, slow speed performance, and synchronized puffing smoke featured by our die-cast model.

For its initial run, we offer the Light Mike in two undecorated versions and decorated and correctly numbered for four railroads. with road-specific details including accurate, legible builders plates; footboard or boiler-tube pilot; smokebox or boiler-top mounted bell; and high-mounted or centered headlight. Each road name is offered in three engine numbers. For the B&O, we offer the first USRA locomotive ever built, No. 4500, and two of the additional 99 Light Mikes the B&O received from the government and rostered as Class Q-3. For the Pennsylvania Railroad, we offer three of the five USRA Mikes the Pennsy kept, painted in near-black PRR Brunswick Green; the other 33 Mikes it received were sent packing in short order and wound up on the Missouri Pacific and the Frisco. Our New York Central models represent three of the 143 USRA-built members of the road's Class H-6. And our Union Pacific engines are replicas of USRA copies ordered by the road in the 1930s. We invite you to check out these extraordinary locomotives at your M.T.H. dealer, or see them perform and learn more about USRA Mikes online at www.mthtrains.com.

Features

- · Die-Cast Boiler and Tender Body
- · Die-Cast Metal Chassis
- · Authentic Paint Schemes & Cab Numbers
- RP-25 Metal Wheels Mounted On Metal Axles
- Prototypical Rule 17 Lighting
- Constant Voltage Headlight
- Operating Classification Lights On Smokebox
- · Operating Marker Lights on Tender
- Detailed Truck Sides
- Detailed, Lighted Cab Interior With Crew Figures
- · Glazed Cab Windows & Opening Cab Roof Vent
- Powerful 5-Pole Precision Flywheel-Equipped Motor

- (2) Kadee Compatible Scale Couplers
- · Metal Handrails, Whistle, and Bell
- Sprung Drive Wheels
- Synchronized Puffing ProtoSmoke™ System
- Locomotive Speed Control
- Locomotive Cab-To-Tender Deck Plate
- Detailed Tender Undercarriage
- Interchangeable Traction Tire-Equipped Drive Wheels
- On-Board DCC Receiver
- Operates On Code 70, 83, & 100 Rail
- Unit Measures: 15 3/8" x 1 3/8" x 1 9/16"
- Operates On 18" Radius Curves



NEW!

Pennsylvania - 2-8-2 USRA Light Mikado w/Proto-Sound 3.0

80-3140-1 Cab Number 9630 \$449.95 80-3141-1 Cab Number 9627 \$449.95 80-3142-1 Cab Number 9631 \$449.95





NEW!

Union Pacific - 2-8-2 USRA Light Mikado w/Proto-Sound 3.0

80-3134-1 Cab Number 2498 \$449.95 \$449.95 80-3135-1 Cab Number 2495 80-3136-1 Cab Number 2486 \$449.95

Boiler-tube pilot, centered headlight, bell mounted on smokebox



NEW!

New York Central - 2-8-2 USRA Light Mikado w/Proto-Sound 3.0

80-3137-1 Cab Number 6104 \$449.95 80-3138-1 \$449.95 Cab Number 6109 \$449.95 80-3133-1 Cab Number 6106

Footboard pilot, centered headlight, bell mounted on smokebox



NEW!

Baltimore & Ohio - 2-8-2 USRA Light Mikado w/Proto-Sound 3.0

\$449.95 80-3131-1 Cab Number 4500 \$449.95 80-3132-1 Cab Number 4519 80-3139-1 Cab Number 4515 \$449.95

Boiler-tube pilot, centered headlight, bell mounted on smokebox

Black Undecorated - 2-8-2 USRA Light Mikado w/Proto-Sound 3.0 80-3143-1 w/ Low Mounted Headlight Boiler-tube pilot, centered headlight, bell mounted on smokebox

Black Undecorated - 2-8-2 USRA Light Mikado w/Proto-Sound 3.0 w/ High Mounted Headlight 80-3144-1 \$449.95 Footboard pilot, high-mounted headlight, boiler-top bell

Quillable Whistle: Using a DCS controller (see page 16), you can "play" the whistle on any USRA Mikado or NYC Mohawk, in the same manner that an engineer plays the whistle cord on a prototype steam engine.













L-4b shown

While its competitors needed monstrous engines to conquer mountain ranges, the New York Central did not. Its Water Level Route from New York City to Chicago was a nearly level raceway built along rivers and the Lake Erie shoreline, and the Central's mainline steam engines were racehorses bred for speed on that route. By the early 1930s, the NYC relied on two locomotives for premier services: the 4-6-4 Hudson for its Great Steel Fleet of passenger trains and the nation's largest stable of 4-8-2s for fast freight. Although the 4-8-2 was labeled a Mountain on any other railroad, that would hardly do on the Water Level Route, so the Central named its engines Mohawks after one of the rivers its rails followed.

As the Depression waned in the late 1930s and traffic picked up, the need arose for a dual service locomotive that could augment the Hudson fleet and hustle freight as well, and the class L-3 Mohawks were developed. With over 5000 horse-power on tap, they were equally at home pulling the 20th Century Limited or more than 100 freight cars. Class L-3 engines were delivered in three subclasses. ALCo-built class L-3a Mohawks were dual service steamers with roller bearings on all axles. Class L-3b engines, built by both ALCo and Lima, and class L-3c built by ALCo, were originally intended for fast freight service. Lima-built L-3b's carried a cylindrical Elesco feedwater heater atop their smokebox fronts, while all other L-3's had Worthington feedwater heaters.

The pinnacle of Mohawk development was Lima-built wartime class L-4, with larger 72" drivers. Tenders on the final L-4's were upgraded with an expansion cistern behind the coal bunker, so water could be scooped at up to 75 mph without blowing the tender apart. Famed author Alvin Staufer noted that "The dual purpose concept had really taken hold on the Central and the wartime service the Mohawks performed was almost beyond belief. It was nothing for them to come in on a heavy freight drag, be serviced, and leave a few hours later at the head of one of the Great Steel Fleet. Whenever possible, the heavy War Trains were assigned to the L-4 Mohawks." Soon after the war, L-4 and L-3 engines were retrofitted with smoke deflectors (a.k.a. "elephant ears") to deflect smoke from the engineer's line of vision. Whether they worked, and whether they improved or ruined the look of the Central's premier freighter, remains a subject of debate among railfans to this day.

While the M.T.H. Mohawk is not the first HO model of this NYC racehorse, we believe it is the best — offering accurate detail for each subclass of L-3 and L-4; smooth performance from a three-scale-mile-per-hour crawl to full throttle; "cruise control" for steady speeds regardless of curves, switches, and grades; a wide range of steam locomotive, crew, and station sounds; prototypical Rule 17 lighting; and puffing smoke synchronized with driver revolutions at a correct four chuffs per revolution. L-3c and L-4b models are equipped with removable elephant ears, so you can model them before or after smoke deflectors were applied.

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 5-Pole Precision Flywheel-Equipped Motor
- (2) Kadee Compatible Scale Couplers
- Metal Handrails and Bell
- Metal Whistle
- Sprung Drive Wheels
- Synchronized Puffing ProtoSmoke™ System

- Locomotive Speed ControlLocomotive Cab-To-Tender
- Deck Plate
- Detailed Tender Undercarriage
- Interchangeable Traction Tire-Equipped Drive Wheels
- Onboard DCC Receiver
- Operates On Code 70, 83, & 100 Track
- Proto-Sound® 3.0 With The Digital Command System, Featuring Passenger Station or Freight Yard Proto-Effects™
- •Unit Measures: 15 3/8" x 1 3/8" x 1 9/16"
- Operates On 22" Radius Curves

See a List of DCC Features on Page 1



New York Central - 4-8-2 L-3a Mohawk Steam Engine

80-3123-1 w/ Proto-Sound 3.0, Featuring Passenger Station Announcements

\$449.95

Cab Number 3006



New York Central - 4-8-2 L-3b Mohawk Steam Engine

80-3124-1 w/ Proto-Sound 3.0, Featuring Freight Yard Sounds \$449.95

Cab Number 3037



New York Central - 4-8-2 L-3c Mohawk Steam Engine

80-3125-1 w/ Proto-Sound 3.0, Featuring Passenger Station Announcements

Cab Number 3064





New York Central - 4-8-2 L-4a Mohawk Steam Engine

80-3126-1 w/ Proto-Sound 3.0, Featuring Passenger Station Announcements

Cab Number 3117



\$449.95

\$449.95



New York Central - 4-8-2 L-4b Mohawk Steam Engine

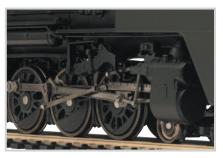
80-3127-1 w/ Proto-Sound 3.0, Featuring Passenger Station Announcements

Cab Number 3125















The SD70ACe is Electro-Motive Diesel's hope for the future. While designed to meet the Environmental Protection Agency's Tier-2 emissions requirements that took effect on January 1, 2005, this replacement for the SD70MAC also has a higher purpose: to recapture the lead in North American locomotive sales that EMD lost to General Electric in 1987.

Under the hood beats a third-generation model 710 diesel with 4300 horsepower; only slight modifications were needed to make the existing model 710 meet new emission standards. With 5000 such motors in service worldwide and a reputation for dependability, EMD reasoned that shop crews would prefer familiar technology. Other than the prime mover, however, virtually every element of the SD70ACe has been re-thought to create a

21st century locomotive. Ergonomics were a prime consideration. The engine's angular nose offers the crew far better visibility than most other locomotives, and the cab is comfortable for engineers of almost any size. Digital screens provide a range of information on what is happening both inside the locomotive and out on the road. The cab easily accommodates a crew of three — an important factor in a modern world without cabooses. And there is, of course, a cupholder for the engineer.

Our first-ever HO scale model of the SD70ACe is offered in a large variety of accurate paint schemes including the six-engine Union Pacific heritage fleet. Each one-of-a-kind heritage fleet locomotive honors a "fallen flag" railroad that is now part of the Union Pacific system. Our highly detailed model includes a broader range of features than

you'll find on any other HO scale diesel, including flashing ditch lights; smooth performance from a three-scalemile-per-hour crawl to full throttle; "cruise control" for steady speeds regardless of curves, switches and grades; built-in decoders for DCC and the M.T.H. Digital Command System (DCS); and a full range of sounds recorded from a prototype Union Pacific SD70ACe.

Prototype Accuracy:

If you're looking for modern motive power that's accurately detailed, smooth running, and a great deal of fun to operate, it doesn't get any better than this. The M.T.H. HO SD70ACe and SD70M-2 models are constructed from 60 different molds that can be configured to produce 15 different variations, ensuring that each of the railroads we build will be accurate in appearance, just like their real-life counterparts.



CSX - SD70ACe Diesel Engine w/Proto-Sound 3.0 80-2001-1 Cab Numbers 4833, 4836 & 4839

\$249.95



BNSF - SD70ACe Diesel Engine 80-2003-1 w/Proto-Sound 3.0 Cab Numbers 9371, 9370 & 9374

\$249.95



EMD Demonstrator - SD70ACe Diesel Engine 80-2004-1 w/Proto-Sound 3.0 \$249.95 Cab Numbers GM70, GM71 & GM73



Kansas City Southern- SD70ACe Diesel Engine 80-2002-1 w/Proto-Sound 3.0 \$249.95 Cab Numbers 4030, 4031 & 4051

Features

- Intricately Detailed ABS Body
- Authentic Paint Schemes & Cab Numbers
- · Detailed Truck Sides, Pilots and Fuel Tank
- · Die-Cast Metal Chassis
- Detachable Scale Snow Plow
- · Authentic sounds recorded from a UP SD70ACe
- · Directionally Controlled Headlights

- RP-25 Metal Wheels Mounted On Metal Axles
- Powerful 5-Pole Precision Flywheel-Equipped Motor
- Locomotive Speed Control in Scale MPH Increments
- Lighted Cab Interior With 2 Cab Figures
- Illuminated Number Boards
- · Operating Ditch Lights



Union Pacific - SD70ACe Diesel Engine

80-2006-1 w/Proto-Sound 3.0 \$249.95

Cab Number 8321



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

Cab Number 4141



Montana Rail Link- SD70ACe Diesel Engine 80-2005-1 \$249.95 w/Proto-Sound 3.0 Cab Numbers 4304, 4308 & 4311



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

80-2023-1 Cab No.8444 \$249.95 80-2024-1 Cab No.8439 \$249.95 80-2025-1 Cab No.8453 \$249.95

• (2) Scale Kadee®-Compatible Remotely

• Operates On Code 70, 83, & 100 Rail

• Unit Measures: 10 9/16" x 1 7/16" x 2 3/16"

Controlled Proto-Couplers™

Operates on 18" Radius Curves

• Onboard DCC Receiver

an entire train — anywhere on your layout — by opening the front or rear coupler remotely, using a DCC

Remotely Controlled Couplers

Pick up or drop off a cut of cars or or DCS controller.

SD70ACe UP Heritage Fleet



DCC Diesel Features*

- Headlight
- Bell
- Whistle/Horn
- Start Up/Shut Down
- Rear Coupler
- Front Coupler
- Engine Sounds On/Off
- Sound Volume
- Smoke On/Off
- Forward Signal
- Reverse Signal
- · Grade Crossing Signal
- Cab/All Light On/Off
- Extended Start Up
- Extended Shut Down
- Rev Up

- Rev Down
- Coupler Close
- One-Shot Doppler
- Feature Reset
- Idle Sequence 1
- Idle Sequence 2
- luie Sequence 2
- Idle Sequence 3
- Idle Sequence 4
- Ditch Lights Auto/On/Off
- Brakes Auto/Off
- Cab Chatter Auto/Off
- Clickety-Clack Auto/Off
- Coupler Slack Sound
- Train Wreck
- PFA Activate/Cycle

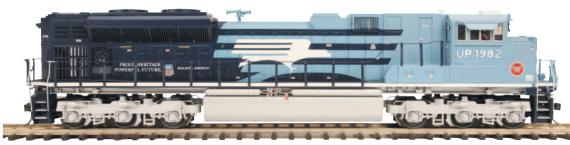








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Missouri Pacific - SD70ACe Diesel Engine 80-2007-1 w/Proto-Sound 3.0 \$249.95 Cab Number 1982

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





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

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





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



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

Cab Number 1996



With a wave of consolidation behind it, North American rail-roading is once again a good business to be in. Freight traffic is booming. Locomotive orders are coming in at a record pace from the Big Six roads that dominate rail transportation on the continent: Union Pacific, BNSF, CSX, Norfolk Southern, Canadian National, and Canadian Pacific. And the two remaining diesel builders, EMD and GE, are locked in a battle to become the locomotive supplier for the 21st century.

The standard bearers for EMD, newly independent and no longer a division of General Motors, are its 70 Series road freight engines, the SD70M-2 shown here and the SD70ACe detailed on page 6. Both locomotives are powered by a two-cycle, 16-cylinder, 4300-horsepower model 710 prime mover and have a top speed of 70 mph. The biggest differ-

ence between the siblings is what's under the floor: traditional DC traction motors in the SD70M-2's trucks and AC traction motors in the SD70ACe. While AC traction motors put more tractive effort on the rails and enable an SD70ACe to start a heavier train with the same horsepower, that additional capability comes at a cost. AC-powered locomotives are both more expensive and more electrically complex than engines with DC traction motors, which most diesels have used since the 1940s. For that reason, the Norfolk Southern and Canadian National have found the SD70M-2 more suitable to their needs, and both roads roster large DC fleets. Regional railroad Florida East Coast has been another DC-power advocate.

New for 2008, M.T.H. introduces the SD70M-2 as a companion to our previously announced SD70ACe. Thanks to our unique Proto-Sound 3.0 sound and control system, these highly detailed models offer a broader range of features than you'll find on any other HO scale diesel, including flashing ditch lights; smooth performance from a three-scale-mile-per-hour crawl to full throttle; "cruise control" for steady speeds regardless of curves, switches and grades; built-in decoders for DCC and the M.T.H. Digital Command System (DCS); and a full range of prototypical EMD sounds.

Did You Know?

Fully loaded, a 70 Series locomotive carries 4,900 gallons of diesel fuel, 420 gallons of lube oil, and 275 gallons of cooling water.



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

NEW! 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





NEW! 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

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

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





NEW! 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 Cab No. 76 \$249.95 80-2019-1

Remotely Controlled Couplers

Pick up or drop off a cut of cars or an entire train — anywhere on your layout — by opening the front or rear coupler remotely, using a DCC or DCS controller.

Southern Pacific *Daylight* Passenger Cars



In 1941 the *Daylights* were re-equipped with new Pullman-Standard train sets that included articulated cars with full-width diaphragms and no bulkheads between the cars — presenting passengers with spacious interiors up to 130 feet long, in the case of the triple-unit coffee shop-kitchen-diner. Wide windows allowed chair car passengers to take in the glorious Pacific Coast scenery, and a rooftop radio antenna brought in news reports and music. Few passengers would argue with the Southern Pacific's claim that this was "the world's most beautiful train." New for 2008, M.T.H. offers authentic Daylight train sets in the original Southern Pacific Lines livery or the later Southern Pacific livery that lasted well into the diesel era.

- Intricately Detailed Durable ABS Bodies
- Metal Wheels and Axles
- Overhead Interior Lighting
- Die-Cast 4-Wheel Trucks
- Authentic Paint Schemes
- End-of-Car Diaphragms

- Separate Metal Handrails
- Detailed Car Interiors
- Detailed Car Undercarriage
- Each Car Measures Approximately: 11 1/2" x 1 7/16" x 1 7/8"
- Operates On 22" Radius Curves













Southern Pacific

Articulated Chair/Chair Passenger Car Set w/Antenna 80-60002 \$134.95

Southern Pacific

Articulated Chair/Chair Passenger Car Set w/Antenna 80-60003 \$134.95

Southern Pacific Lines

Articulated Chair/Chair Passenger Car Set w/Antenna 80-60008 \$134.95

Southern Pacific Lines

Articulated Chair/Chair Passenger Car Set w/Antenna 80-60009 \$134.95

Each car individually numbered — see online for more numbering details.



Southern Pacific

Articulated Chair/Chair Passenger Car Set

80-60004 \$134.95 **Southern Pacific**

Articulated Chair/Chair Passenger Car Set

80-60005 \$134.95

Southern Pacific Lines

Articulated Chair/Chair Passenger Car Set

80-60010 \$134.95

Southern Pacific Lines

Articulated Chair/Chair Passenger Car Set

80-60011 \$134.95



Southern Pacific

Chair Car

80-60006 \$69.95

Southern Pacific Lines

Chair Car

80-60012 \$69.95



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

Flat Cars

Between 1964 and 1975, Trailer Train (now known as TTX Co.) acquired a fleet of 5,000 modern 60' flat cars. Similar cars are rostered by most major U.S. railroads. Built by ACF, Thrall, and Pullman Standard, the TTX cars were assigned to various classes to handle loads as diverse as auto frames, logs, military vehicles, farm equipment, and construction equipment. Some were even modified to handle TTX's bread and butter, intermodal containers. Our model is based on the TTX class F60GH cars built in the mid-1970s by Pullman Standard. Equipped with four rows of tie-down tracks, two astride the center sill and one along each side, these wooden-decked cars are assigned to heavy-duty equipment service. Our model replicates the prototype's intricate details and is offered with several appropriate loads of heavy machinery.



TTX

60' Wood Deck Flat Car w/163H Motor Grader 80-98023 \$34.95

Southern

80-98006

SOUTHERN

\$29.95

60' Wood Deck Flat Car

Also Available:

60' Wood Deck Flat Car w/315C Hydraulic Excavator

60' Wood Deck Flat Car w/163H Motor Grader

60' Wood Deck Flat Car w/950G Wheel Loader

60' Wood Deck Flat Car w/315C Hydraulic Excavator

\$34.95

\$34.95

\$34.95

80-98031 \$34.95

60' Wood Deck Flat Car w/950G Wheel Loader

80-98015 \$34.95 60' Wood Deck Flat Car 80-98007 \$29.95

Also Available:

80-98022

80-98030

80-98014



Santa Fe

60' Wood Deck Flat Car w/315C Hydraulic Excavator 80-98029 \$34.95

Also Available:

60' Wood Deck Flat Car w/163H Motor Grader

80-98021 \$34.95

60' Wood Deck Flat Car w/950G Wheel Loader

80-98013 \$34.95 60' Wood Deck Flat Car 80-98005 \$29.95









Union Pacific

60' Wood Deck Flat Car w/950G Wheel Loader 80-98016 \$34.95 Also Available:

60' Wood Deck Flat Car w/163H Motor Grader

80-98024 \$34.95

60' Wood Deck Flat Car w/315C Hydraulic Excavator

80-98032 \$34.95 60' Wood Deck Flat Car 80-98008 \$29.95





Each car is supplied with tie-down chains and load adjusters, which you can use to create a super-detailed load.

Burlington Northern 60' Wood Deck Flat Ca

60' Wood Deck Flat Car 80-98002 \$29.95 Also Available:

60' Wood Deck Flat Car w/163H Motor Grader

80-98018 \$34.95

60' Wood Deck Flat Car w/315C Hydraulic Excavator

80-98026 \$34.95

60' Wood Deck Flat Car w/950G Wheel Loader

80-98010 \$34.95

Each Item Number is Available in SIX Different Road Numbers



Canadian National

60' Wood Deck Flat Car w/163H Motor Grader 80-98019 \$34.95 Also Available:

60' Wood Deck Flat Car w/315C Hydraulic Excavator

80-98027 \$34.95

60' Wood Deck Flat Car w/950G Wheel Loader

80-98011 \$34.95 60' Wood Deck Flat Car 80-98003 \$29.95

BNSF

60' Wood Deck Flat Car w/950G Wheel Loader 80-98009 \$34.95 Also Available:

60' Wood Deck Flat Car w/163H Motor Grader

80-98017 \$34.95

60' Wood Deck Flat Car w/315C Hydraulic Excavator

80-98025 \$34.95 60' Wood Deck Flat Car 80-98001 \$29.95

Features

- Intricately Detailed Durable ABS Body
- · Metal Wheels and Axles
- Fully Sprung Die-Cast Metal Trucks
- Decorative Brake Wheels
- Separate Metal Handrails
- 1:87 Scale Dimensions

- Simulated Wood Decking
- Kadee® Compatible Couplers
- Detailed Undercarriage
- Unit Measures: 8 7/8" x 1 1/2" x 3/4"
- Operates On 18" Radius Curves



Great Northern

60' Wood Deck Flat Car w/315C Hydraulic Excavator 80-98028 \$34.95

Also Available:

60' Wood Deck Flat Car w/163H Motor Grader

80-98020 \$34.95

60' Wood Deck Flat Car w/950G Wheel Loader

80-98012 \$34.95

60' Wood Deck Flat Car 80-98004 \$29.95

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

(see page 1 or 8 for the complete list)

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



DCS Commander

MTH's Digital Command System (DCS™) unlocks the full sound and operating potential of Proto-Sound 3.0. 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. In addition to the features available with DCC and analog DC, the DCS Commander unlocks a long list of Proto-Sound operating possibilities, including:

- Speed adjustment in one-scale-mileper-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, coupler slack, engine start-up and shut-down, engine labor and drift
- Activate Passenger Station and Freight Yard Sounds
- •Individual locomotive control: control up to 99 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 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.

Two Choices of DCS



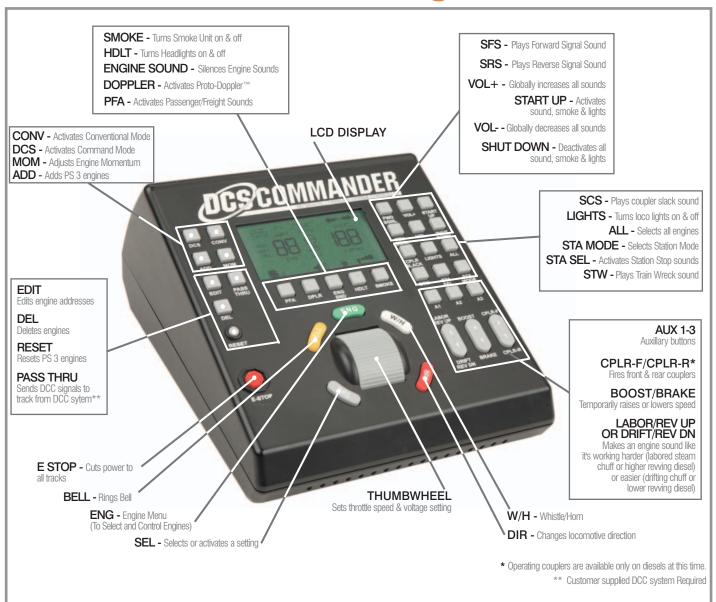
DCS Commander Controller 50-1028 \$149.95 DCS Commander System w/100 watt power supply 50-1029 \$229.95



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



More Features Than Analog DC or DCC Command Control



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 99 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 fullfeatured 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.

Not all products depicted in this catalog are production models. In some cases, the items pictured may have been altered digitally.

All items' 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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Columbia Maryland 21046-1532 www.mthtrains.com 410-381-2580 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-Soped Control™, Proto-Doppler™, Proto-Dispatch™, Proto-Cast™, Proto-Cost™, Proto-Coupler™, Proto-Ectes™, Raillifow,®, Rugged Rails®, Railfing 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.

M.T.H.'s DCS Digital Command System has received U.S. Patent No. 6,457,681.
M.T.H.'s Proto-Soundi® system has received U.S. Patent Nois 6,457,681 B1 (sound system), 6,457,681 B1 (Proto-Speed Control), 6,604,641 (Proto-Coupler), 6,280,278 (Proto-Speed Control), 6,804,641 (Proto-Coupler), 6,280,278 (Proto-Speed Control), 6,804,641 (Proto-Coupler), 6,280,278 (Proto-Speed Control), 6,804,641 (Proto-Coupler), 6,8

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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