

märklin

**Märklin H0 –
the exciting world
of railroading**



1984/85 E



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**Märklin Model
Railroad Club (Inc)
Wgtn NZ**



Dear Märklin Fan,

Thanks for purchasing our 190-page catalog. It is more than a comprehensive listing of the extensive line of H0 products offered by Märklin. It is also a celebration of our 125th anniversary.

It is with special thanks to Märklin modelers all over the world that we have added an extra international flair to our new items offered this year in H0 as well as in mini-club and Gauge I.

Märklin has been helping mankind enjoy leisure moments since 1859. Today, our name is synonymous with model railroading. H0 gauge trains are something we pioneered and developed way back in 1935. And today Märklin H0 is the most popular variety of this most popular of model railroading scales.

Come, celebrate with us our 125th anniversary. See and enjoy our jubilee activities; they are a signal for the future, because Märklin's commitment to quality, reliability and new ideas will remain as strong in the next 125 years as in the preceding century and a quarter.

Märklin H0 – more than just a toy

Märklin H0 – it's planning and building, creating and forming, operating and guiding, dispatching and switching, play and experience and, and, ...

There are tracks and switches, signals and catenary, steamers and electrics, limiteds and freights, grade crossings, bridges, and, and, and ...

Märklin H0 – it's the complete exciting world of railroading in miniature.

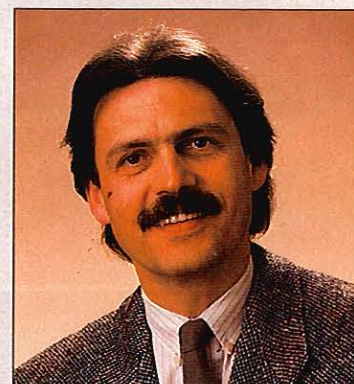


Model Size H0
Gauge 16.5 mm ($\frac{5}{8}$ ")
Scale 1:87

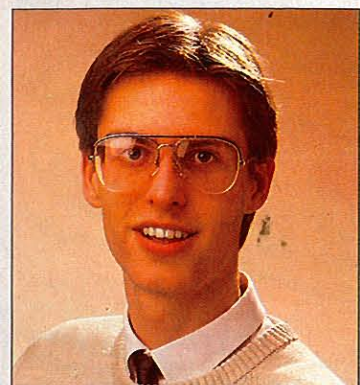
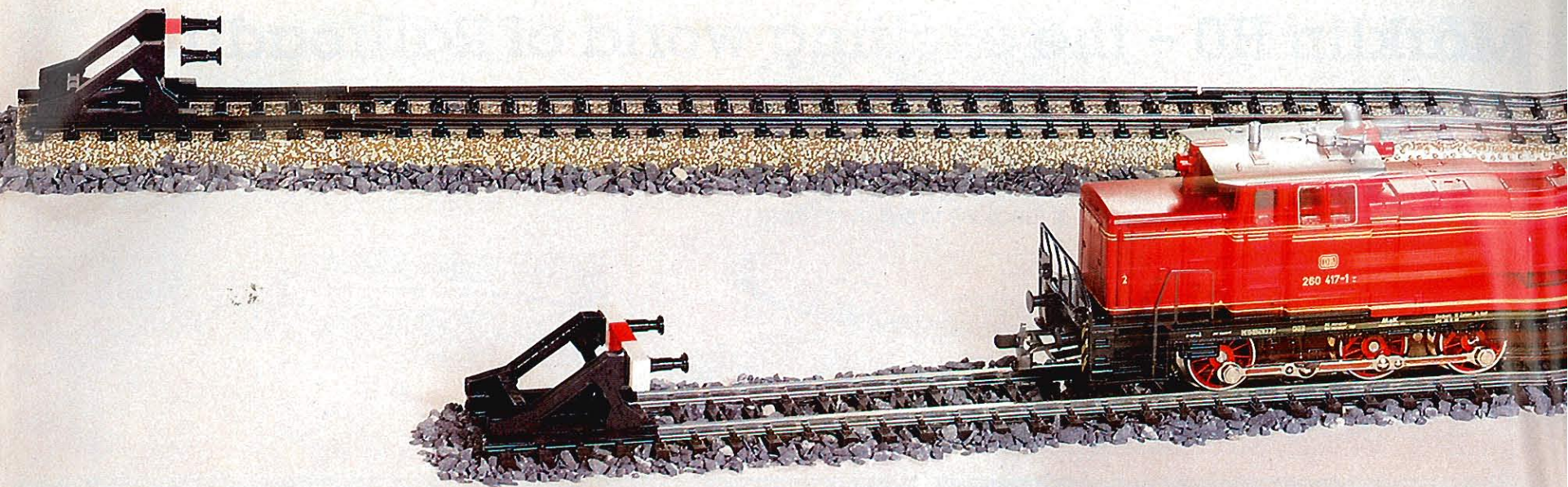
My Märklin train set is my best toy. It is 2 m (6' 6") long and 1 m (3' 3") wide. I put everything together myself, tracks, switches, signals, etc. Everything works just right. My father helped me put the scenery down. That was a lot of fun. My friends come over often and we always play trains. Daddy promised me that at Christmas my layout will be expanded. Man, that is fabulous.



I lead a busy life, working full time. For relaxation, I built a fine little model railroad in my hobby room. Here I find self-expression; here I build a small world to suit my tastes. I especially enjoy the compliments given by visitors. Running my railroad is a real pleasure, – I look forward to it each day.



When my son discovered my old Märklin H0 train set in the attic, he awakened the interest I once had in the hobby. Now we find much time to be together as we rebuild and extend the old layout. Model railroading is really a fabulous pastime. I notice how my son, though involved in "playing trains", is really learning the basics of electricity and the properties of various materials. And I'm having fun, too!



I may not have the right knack for laying scenery, but planning where the actual track is to go, and especially working out all the refinements on electrical hookups, are fun-filled challenges. I like it. I am constantly changing my layout, always adding something new. This is the right kind of relaxation after a day's work. Time passes by so fast when I'm working on my railroad.



Daddy gave me a Märklin train set for my birthday. I play with it almost every day. Daddy showed me how to put the tracks together and now I can do it all by myself. I put it together on the rug in my room. My locomotive is nice and strong. She pulls my train all the time, even when I load the cars with different things. When I'm in bed, I dream how I will arrange the tracks the next time. My friends are envious of my Märklin trains.



When I was young, trains were as exciting as spaceships are today. I no longer remember when I got my first Märklin train set. But the train still runs, though I now keep it as a treasured mantelpiece, partly because my present layout is a little too small for all my equipment. Out of sheer joy, I purchase every new Märklin item. Gee, I've been collecting Märklin for years. And now my imposing collection is worth quite a bundle.

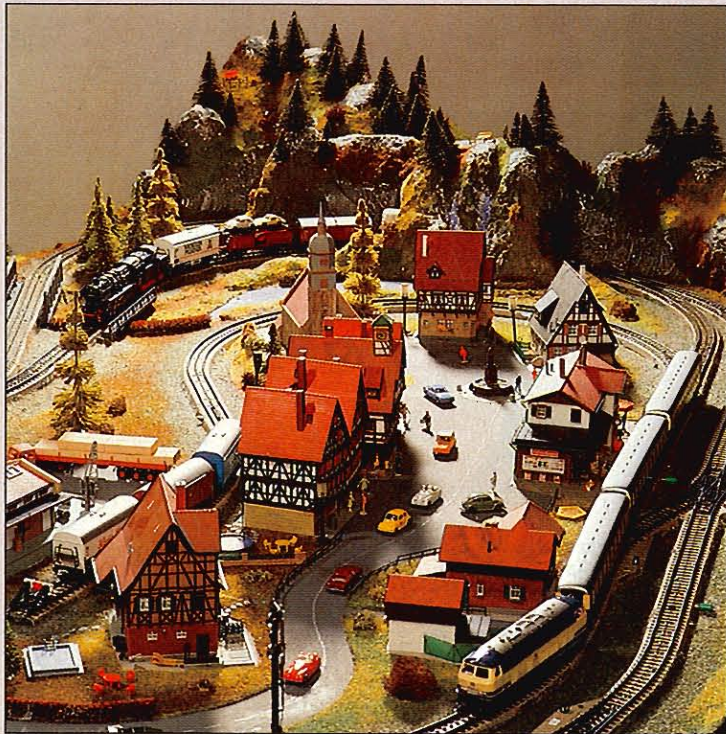


I've been a Märklin fan 8 years already, and I guess I show it. My uncle is the one who introduced me to it and taught me. He's been a model railroader for 20 years. But now I'm more or less on my own. There is only one kind of layout I like – one that is prototypically real. With Märklin, that's completely possible. Märklin engines are wild! I'm bitten by the Märklin bug.

Märklin H0 – the exciting world of Railroading

Märklin H0 lets everyone's creativity have a free rein allowing each person to express himself as he sees fit, entering the exciting world of railroading at his own pace.

Märklin H0 offers a systematic, problem-free technology, reliable and everlasting operation, the right size, and a wide variety of functions to suit every taste.



Available space is no limit to designing an interesting layout. It doesn't cost much to bring the world of railroading into a home. From the

first dream, to the day of the golden spike, Märklin H0 gives one the continual feeling of accomplishment.

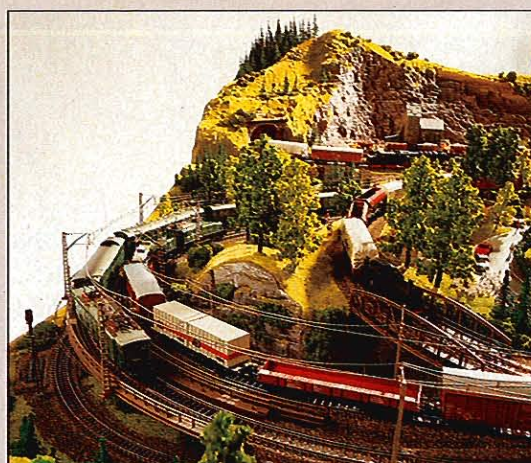


It's a magnetic feeling to watch Märklin H0 in action: Right-sized trains yet full of detail; the unmistakable

attraction of H0 gauge with its powerful locomotives.

Märklin H0 – just right for the little rail-roader, right from the beginning. It's an investment in the future since it is a gift that grows with the child. It helps him mature.

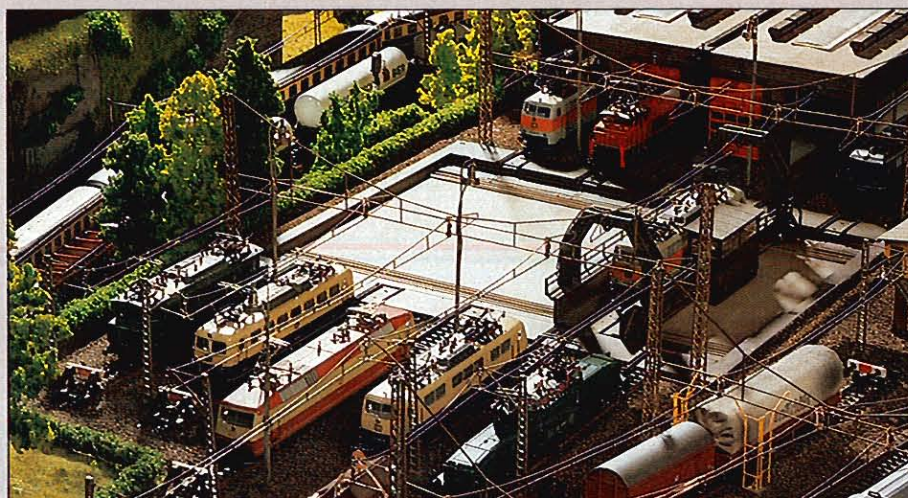
Märklin H0 – ideally proportioned for grand-size yet prototypical railroading in miniature.



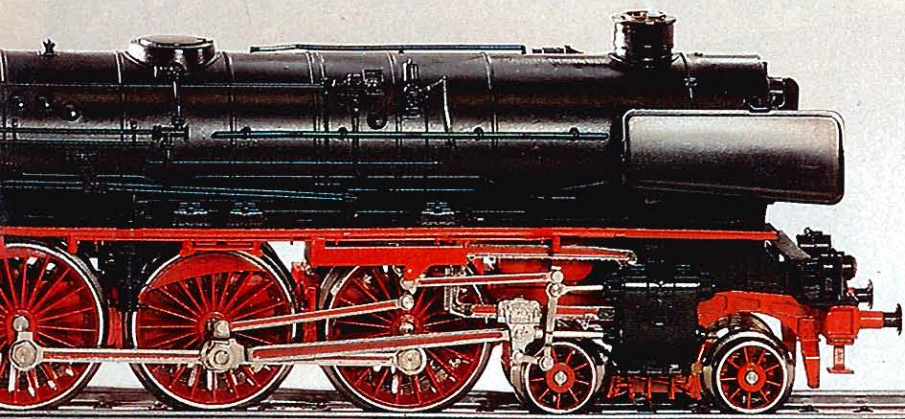
Märklin H0 opens up the entire world of model railroading for advanced modelers – precision, multi-faceted, fabulous, and true-to-life.



Märklin H0 is more than just tracks and trains. It's got a wide variety of accessories to please the most exacting demands of a growing layout.



Märklin trains are a thing of value. Even engines and cars of the recent past can command prices several times their original value.



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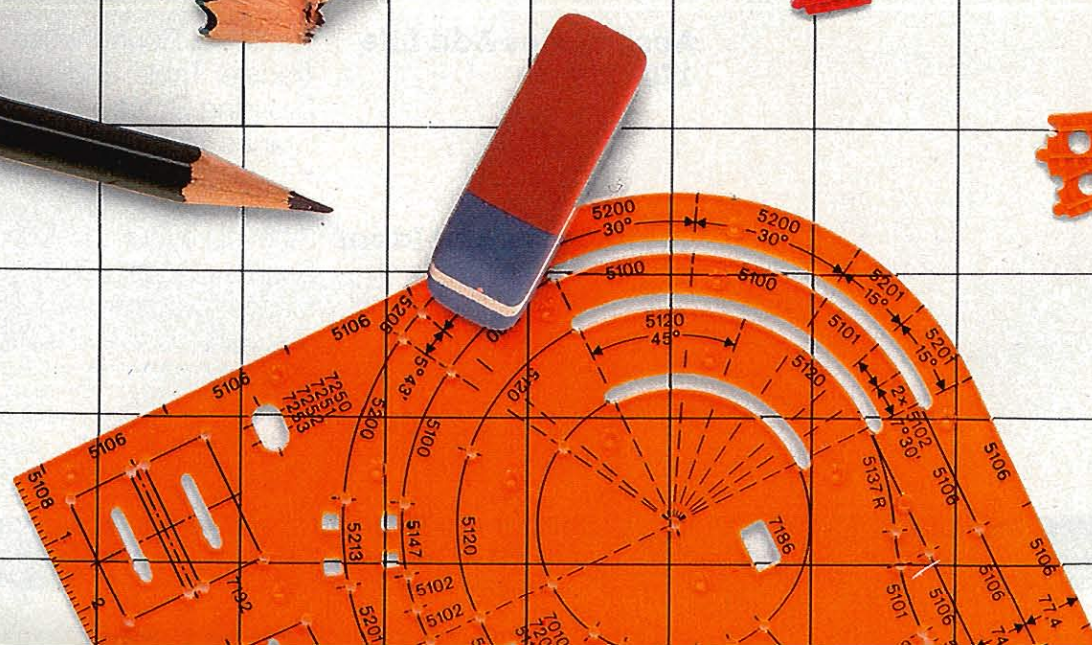
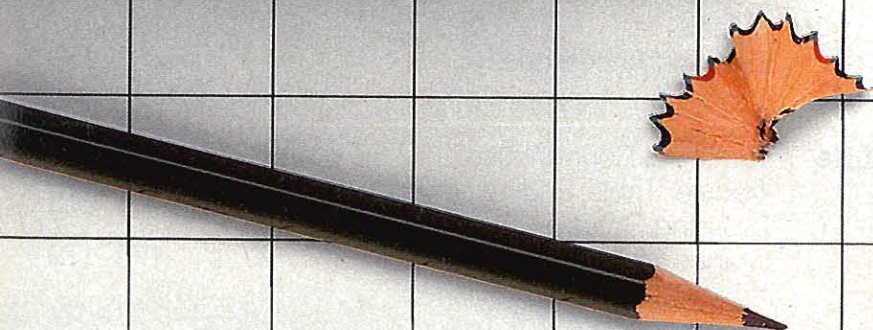
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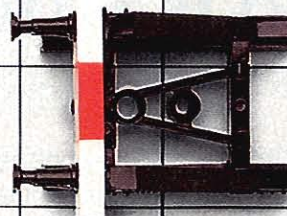
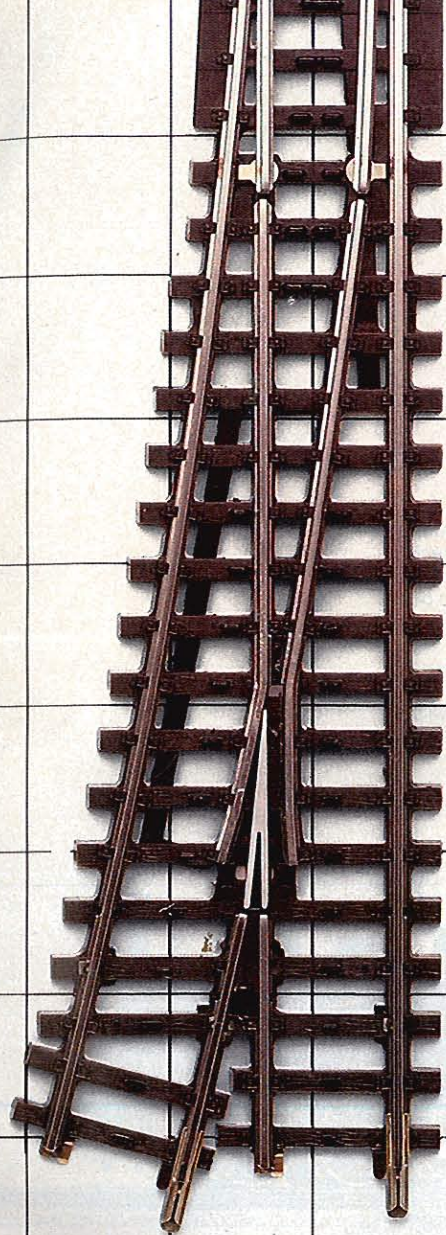
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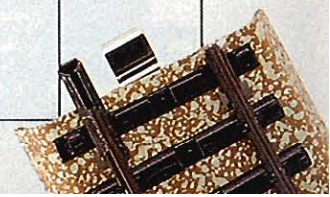
Dreams Become Reality

Model Railroading excites young and old. It's the fascination of bringing home the fabulous world of railroading. It's the unlimited possibilities of exercising one's talents. Age is no barrier; nor space; nor even time. A youngster can set up a small layout. Each layout develops in accordance with the owner's personality. With Märklin's well-designed system, the world of fantasy becomes reality.

Even the "paper stage" of railroading is fun, thanks to Märklin. We offer a variety of planning aids with which a modeler can design anything from an oval to a good-sized pike.

And the "nuts and bolts stage" is just as simple and fun. Thanks to Märklin's unique center "rail" pickup, no special wiring is required for any kind of track configurations.

Märklin: Model Railroading with unending fun.



Getting Aboard is Fun

Five exciting beginner sets offer to everyone the possibility of climbing aboard the fun-filled world of model railroading.

Choose either the sturdy metal-bodied M Track, designed especially for temporary layouts, or the realistic looking K Track for the prototypical appearance.

1

2920 S 220 Volt
2924 S 240 Volt
2927 S 110 Volt (60 Hz)
2929 S 100 Volt Japan

Local Passenger Train with Transformer

The most economical first-step into the world of railroading. Steam locomotive, two passenger cars and a transformer included. Beginner set can be extended at will. Just add extra track and a few switches for endless hours of fun.

2

2930 S 220 Volt
2934 S 240 Volt
2937 S 110 Volt (60 Hz)
2939 S 100 Volt Japan

Freight Train with Transformer

Ideal for anyone who would like to start with a freight train. An illuminated class 89 steam engine, a low-side gondola and dump car, (which can be loaded and unloaded with all kinds of freight) offers a fine introduction into

the fascination of railroading. This set can be extended in many different ways.

The transformers included with these sets have connections for track current and for lights/accessories. These transformers will also power additional switches, signals, or more powerful locomotives.

The transformers included with beginner sets are not available separately.

Connect the transformers to house current only.

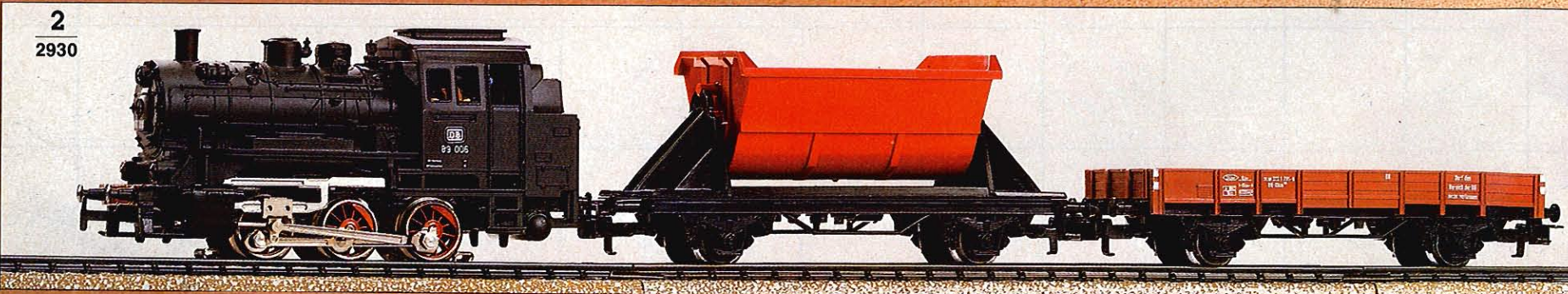
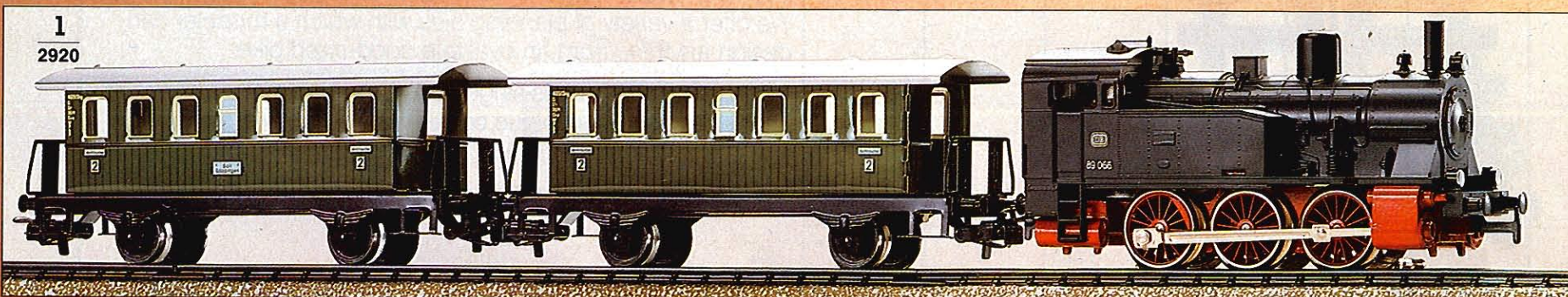


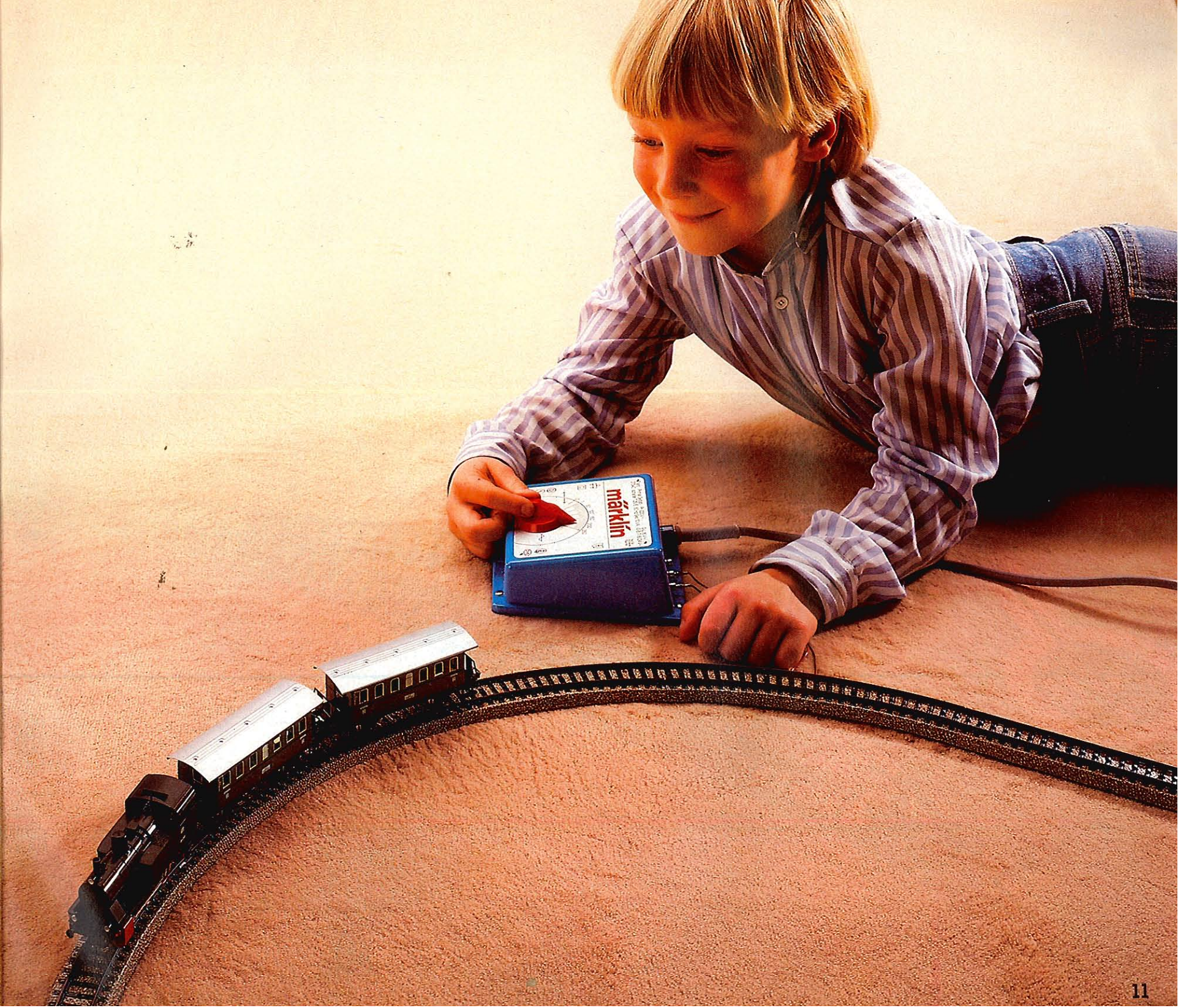
2920
 94 x 76 cm
 (3'1" x 2'5-7/8")

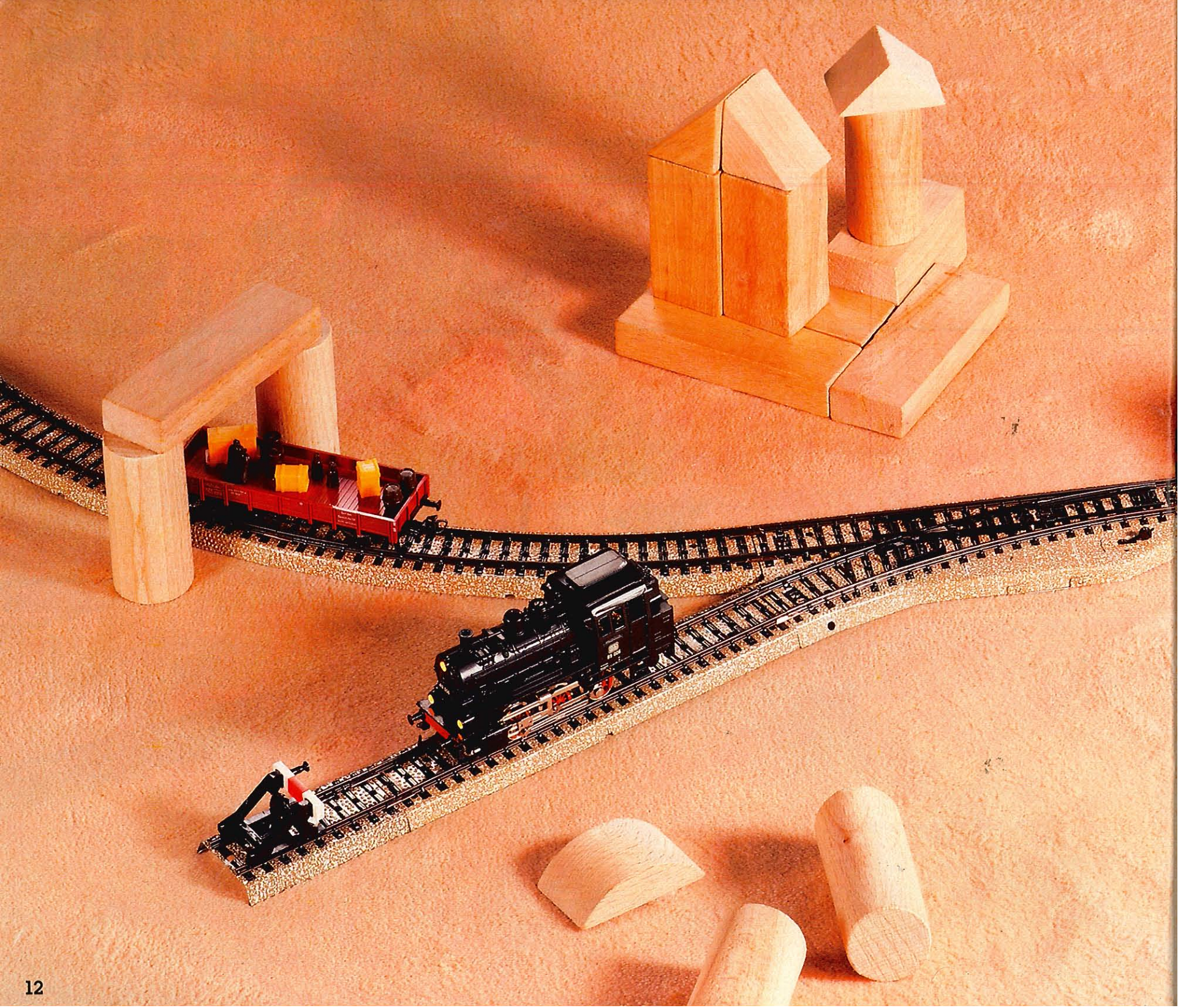


2930
 94 x 76 cm
 (3'1" x 2'5-7/8")

An easy and economical way of expanding these beginner sets is to use the SET layout program discussed on page 24.









- 2950 220 Volt
- 2954 240 Volt
- 2957 110 Volt (60 Hz)
- 2959 100 Volt Japan

Freight Train with Transformer · This set offers an exciting and adventure-filled introduction for all new rail-roaders · Among the operational possibilities: remote control uncoupling, classifying cars, switching, designing layouts and much more · Includes an illuminated steam locomotive, three freight cars with loads, an uncoupling track with signal mast, a transformer, a manual switch and a lot of track · A 28-page booklet

offering many tips on how to enjoy model railroading is also enclosed

An easy step-by-step way to enlarge this beginner set is to use the SET layout program described on page 24.



2950 130 x 76 cm
(4' 4" x 2' 5-7/8")

2875

Long Freight Train · A beautiful beginner set for anyone who would like to get started with a fully functional freight railroad · Among its exciting features:

- Realistic assortment of freight cars
- Locomotive with headlights and RELEX couplers
- Operating marker lights for rear car
- Switches and lots of track
- Prototypical operation

Track layout allows for oval running and switching · This set gives one a clear track into the fabulous world of model railroading

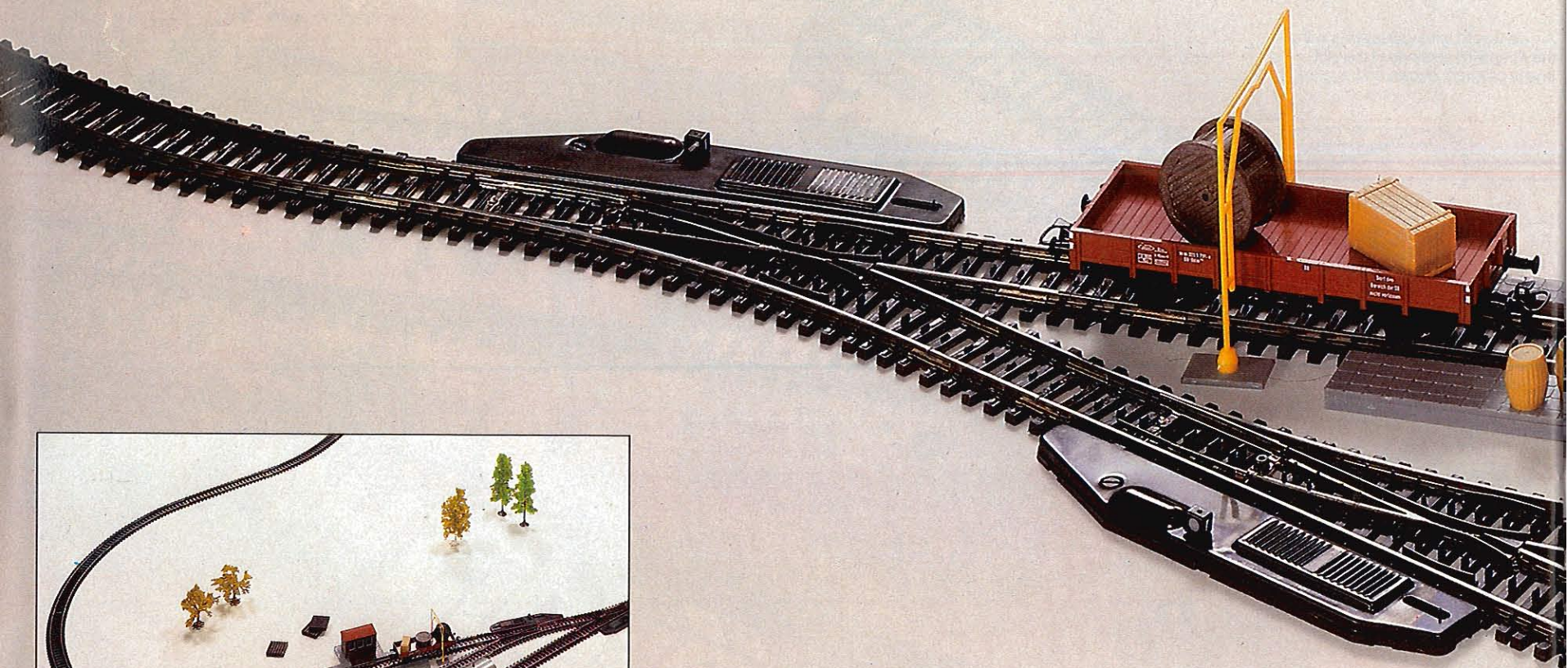


2875 184 x 76 cm (6' 1" x 2' 5-7/8")



A nice way to extend this set is with the T1 and T2 sections of the SET layout program shown on page 24.



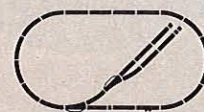


2980 220 Volt

Freight Train with Transformer · This is the ideal way to get aboard the marvelous world of Märklin model railroading with its realistic looking K Track · Includes a diesel with accurate German Federal markings, three freight cars, and freight station accessories (freight house kit, loading platform, piles of ties and assorted freight loads), one transformer, two remote control switches and a lot of track

This beginner set includes enough track for other layout designs. For example:

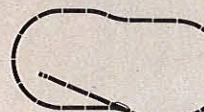
The transformer included with the set is only available in 220 Volt.



150 x 78 cm
(4' 11-1/2" x 2' 6-1/4")



168 x 85 cm
(5' 6" x 2' 9")



165 x 85 cm
(5' 5" x 2' 9")



163 x 92 cm
(5' 4-1/2" x 2' 11-3/4")



2980 186 x 78 cm
(6' 2" x 2' 6-1/4")

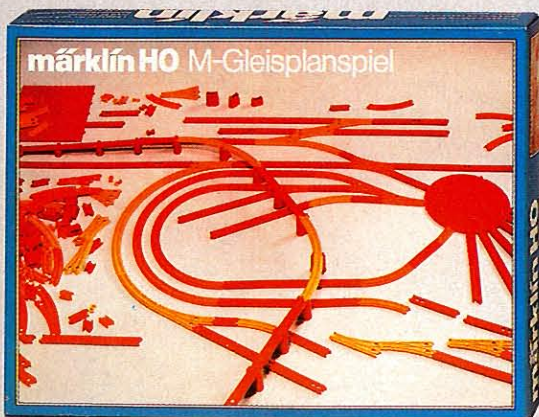




Have Fun Before the Run

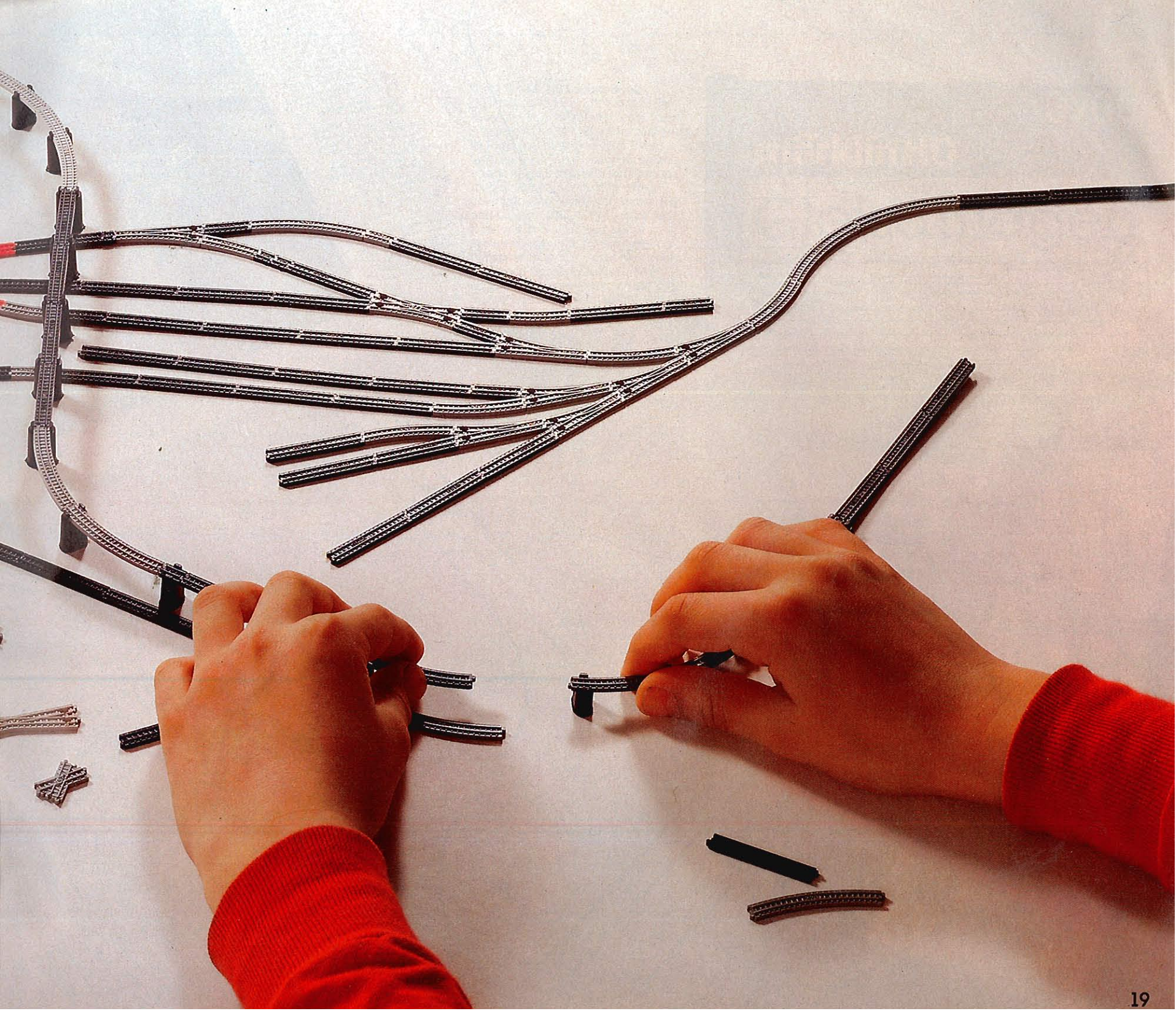
Have some fun before the trains begin to run by designing a railroad empire with the Track Planning Game. Let the dream layout take shape before actual construction begins. The three dimensional track sections are as simple to connect as Märklin tracks. Planning the layout with this game means the fun of model railroading begins before the trains roll.

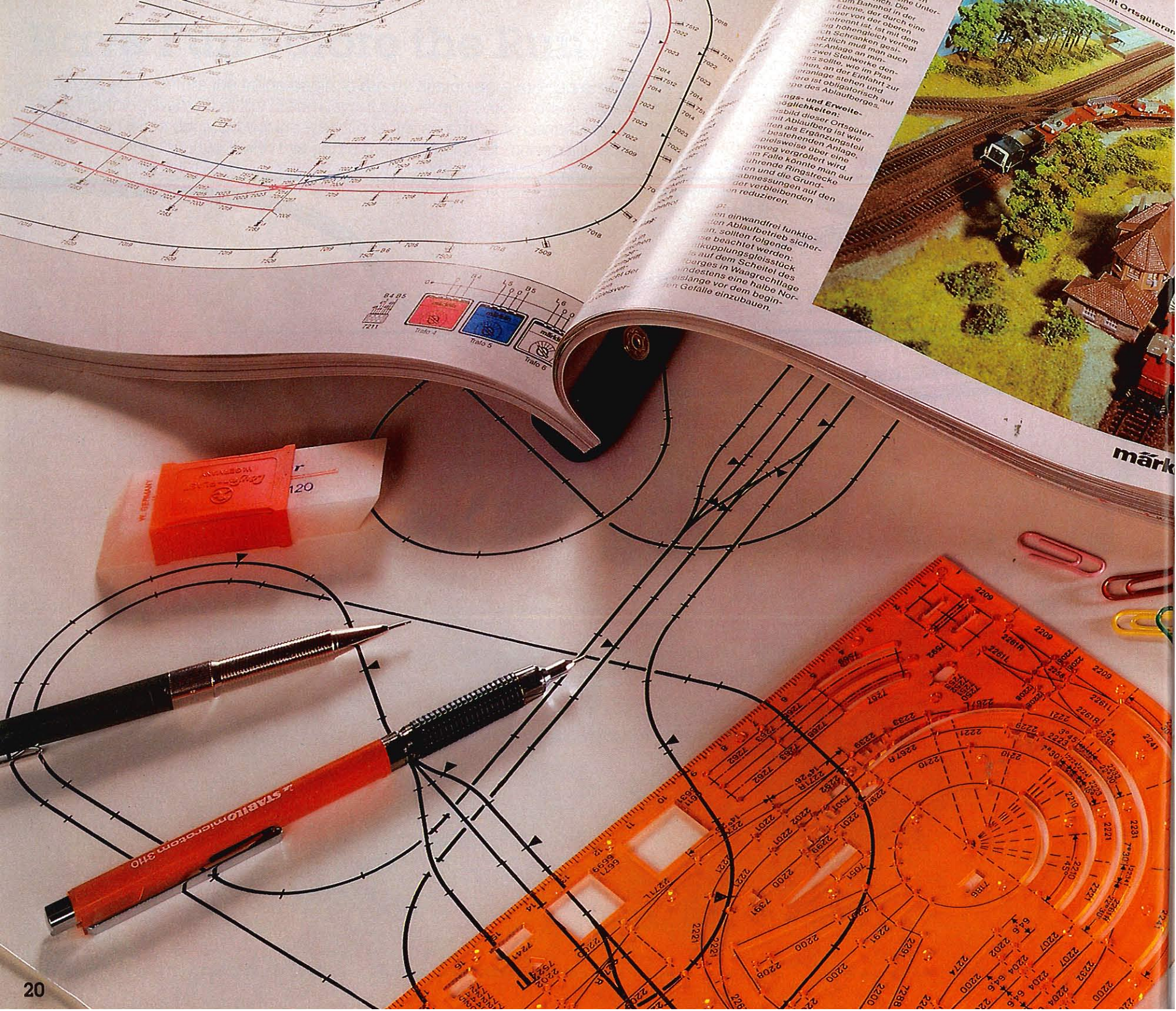
0230 M · Track Planning Game · For designing M Track layouts · All track sections scaled 1:5 · Has transfer table, turntable, pillars · Enough parts to plan a medium size layout · All pieces have corresponding part numbers · Pieces are 4 color-coded (3 curve radii and straight tracks) · Pieces fit snug and quick

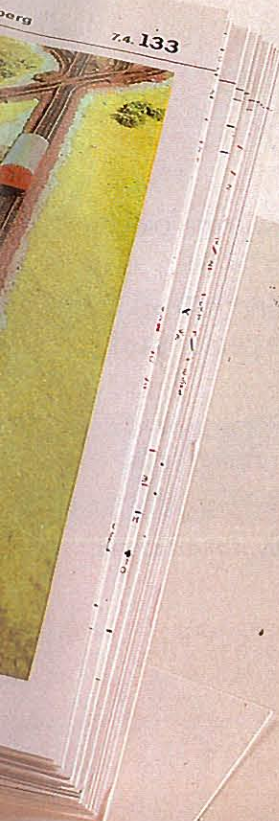


0231 K · Track Planning Game · For designing K Track layouts · All track sections scaled 1:5 · Has transfer table, turntable, pillars · Enough parts to plan a medium size layout · All pieces have corresponding part numbers · Pieces are 7 color-coded (5 curve radii and straight tracks, and 14° 26' switches) · Pieces fit snug and quick









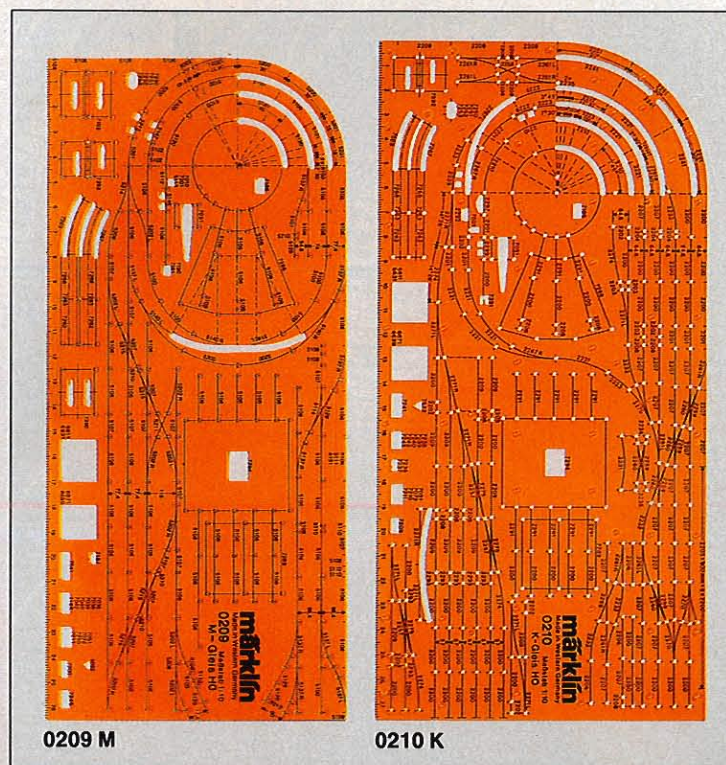
0702 K + M · H0 Layout Book ·
 30 Layouts, 15 for K Track and 15 for M Track · A supplement gives K Track equivalents for 14 M Track layouts and M Track equivalents for 15 K Track layouts · Each layout example includes a 1:10 track plan with wiring schematic, catenary, landscape design, color photos of completed layout, tips and suggestions for laying track and adding scenery · Special space-saving layout concepts such as narrow shelf layouts, diagonal layouts, U-shaped layouts · Also includes schematic layouts which can stand by themselves or be used as add-ons to other layouts · 186 pages · Size 22 x 26.4 cm (8-3/4" x 10-1/2") · English text



0702 K + M

0209 M · Track Planning Stencils ·
 For M Track, 5100 and 5200 series · All track sections are scaled 1:10 on stencils and can be traced on paper with a sharp pencil · Instructions included

0210 K · Track Planning Stencils ·
 For K Track, 2200 (2100) series · All track sections are scaled 1:10 on stencils and can be traced on paper with a sharp pencil · Instructions included



0209 M

0210 K



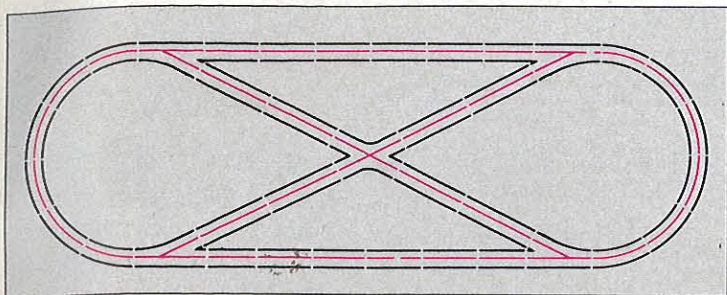
More Track – More Operation – Means More Railroad

More track means greater operational fun. In fact, just adding a few extra pieces of track will give any layout a new look by adding extra routes for the trains.

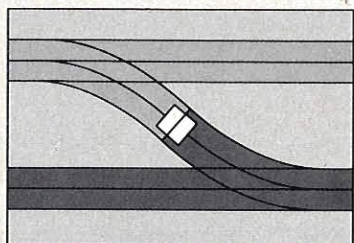
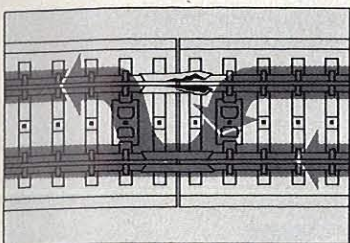
Märklin offers two track systems – M Track (with metal roadbed) and K Track (with realistic looking ties). Both have one thing in common: the unique center stud contact system.

With this center stud system (the third “rail”), current is fed to the locomotives which pick it up with their sliders. Return flow is via the wheels and the running rails. This system guarantees problem-free construction and reliable operations.

Complicated trackage, such as return loops or wyes, can be easily installed with no additional complicated wiring.

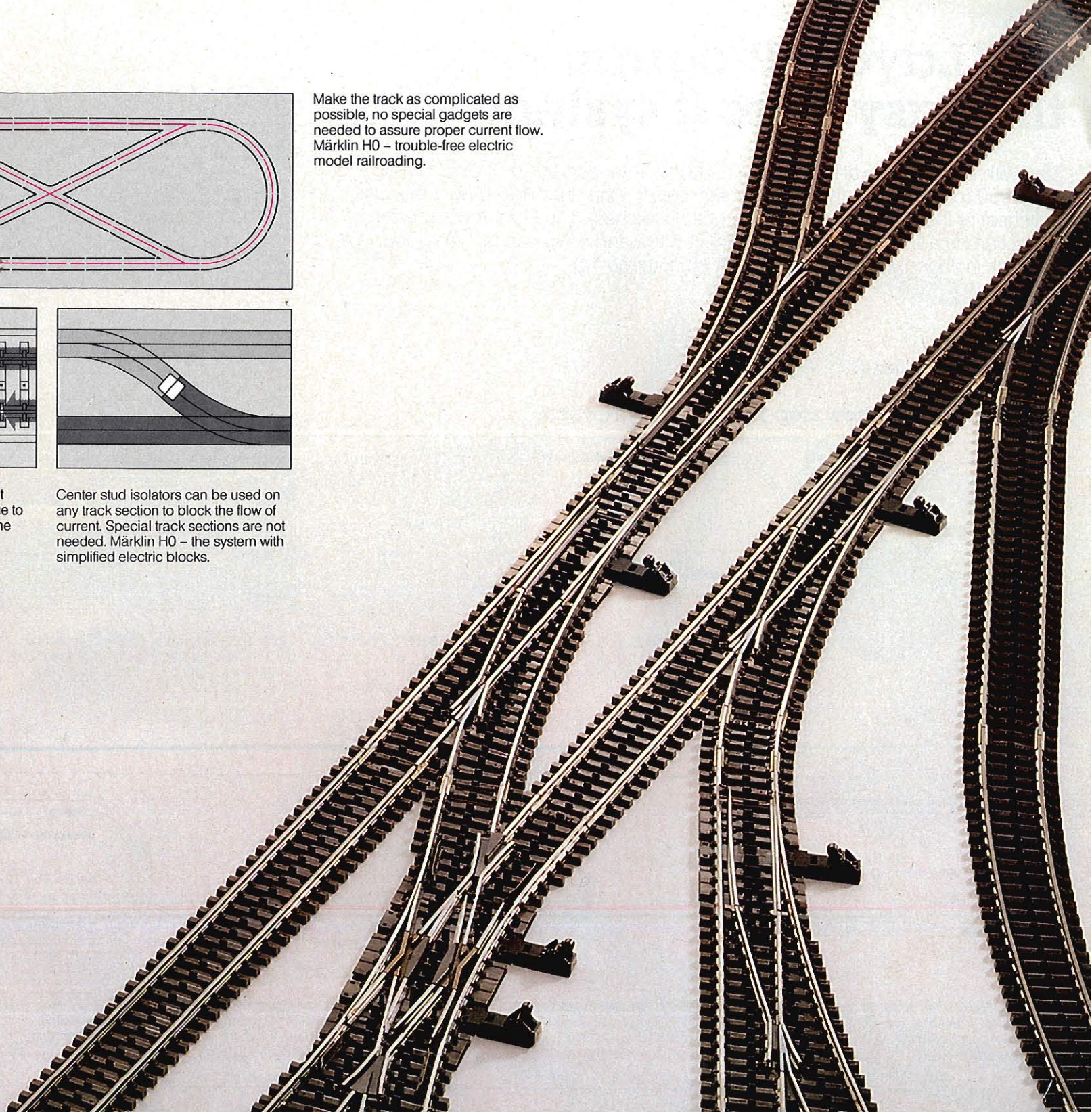


Make the track as complicated as possible, no special gadgets are needed to assure proper current flow. Märklin H0 – trouble-free electric model railroading.



If one of the track clips should get loose or bent, current will continue to flow back to the transformer via the other track clip. Märklin H0 – the system with good current flow.

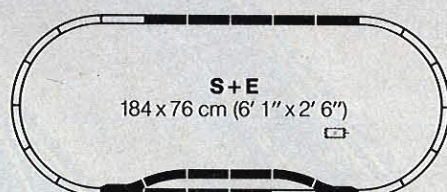
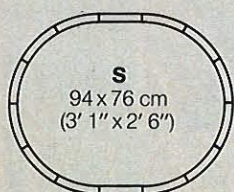
Center stud isolators can be used on any track section to block the flow of current. Special track sections are not needed. Märklin H0 – the system with simplified electric blocks.



SET Layout Program – the Easy Does It system

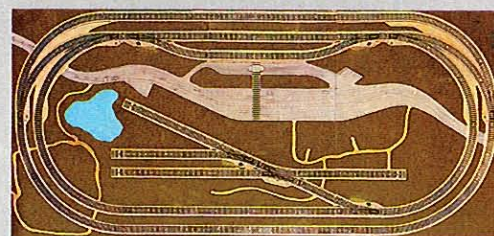
Start with the simple oval included with the beginner sets 2920 S, 2930 S (page 10) and 2950 (page 12). For the first extension select either the 5190 E (with manual switches) or the 5191 E (with remote control switches). The last three steps, the “T” steps, can be added in any order. The SET 5192 and 5193 can also be added to the track included with the beginner set 2875 (page 14).

Track diagrams show step-by-step construction

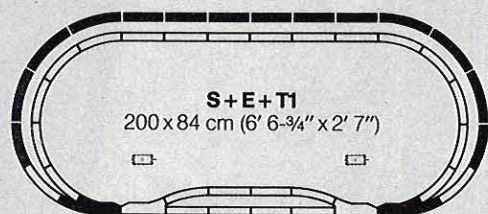


5190 · Extension Set E · Includes:
10 straights, 2 curves, 1 pair of
manual switches and instructions

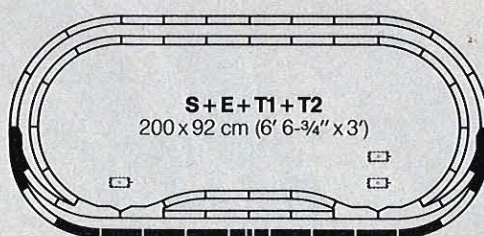
5191 · Extension Set E · Includes:
10 straights, 2 curves, 1 pair of remote
control switches, position control box,
distribution strip, leads, socket, plugs
and instructions



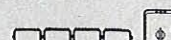
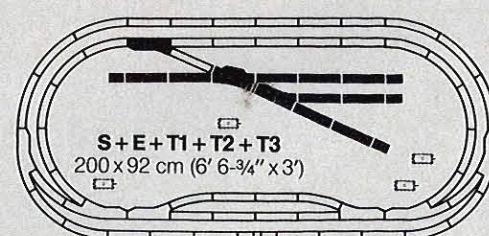
7298 · SET Toporama · Realistic landscape
design · Multi-colored · Track layout printed on ·
Grass already glued on · Size 205 x 97 cm
(6' 8-3/4" x 3' 2-1/4")



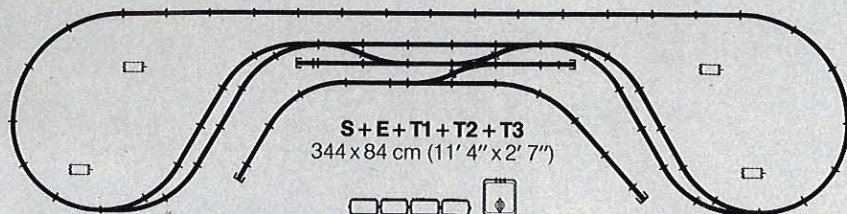
5192 · Double Track Set T1 · Includes: 6 straights,
8 curves, 1 pair of remote control switches, position
control box, distribution strip, leads, sockets, plugs
and instructions



5193 · Station Track Set T2 · Includes: 9 straights,
2 curves, 1 pair of remote control switches, position
control box, distribution strip, leads, sockets, plugs
and instructions



5194 · Yard Track Set T3 · Includes: 9 straights, 1 pair
of remote control switches, 1 double slip switch,
4 bumpers, position control box, distribution strip,
leads, sockets, plugs and instructions



The layout configurations possible with SET extensions are virtually unlimited. Shown here are some examples of layouts using the SETs. Extension sets

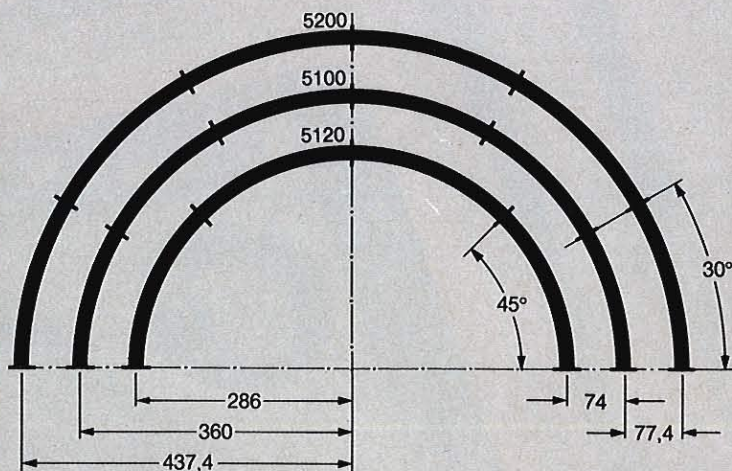
make wonderful gifts since **each** extension can be integrated into **any** existing layout.



Tips on Using M Track

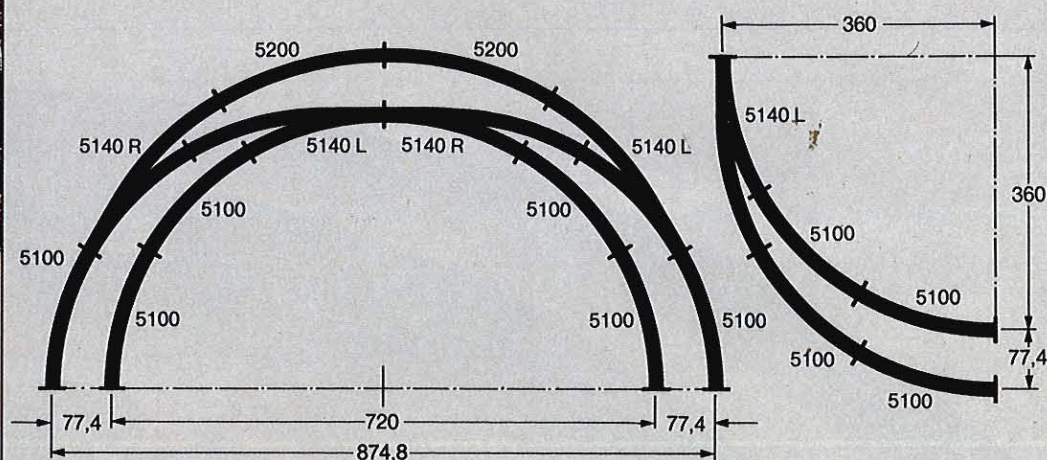
The special feature about M Track is that the roadbed is an integral part of the track section giving it the durability necessary for layouts that are changed often. M Track is excellent for children.

The 3 Radii



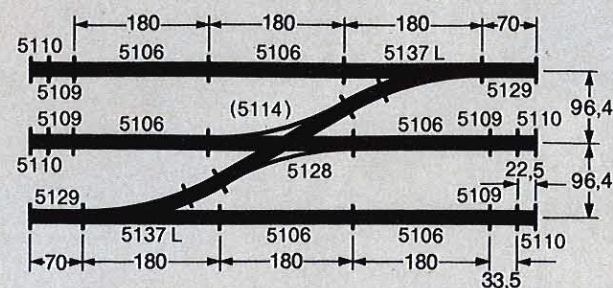
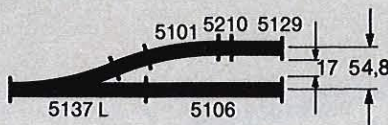
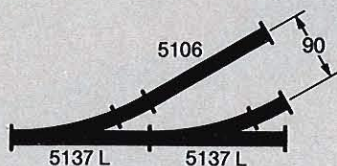
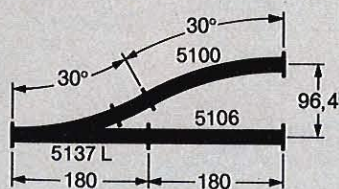
Switches 5202, 5221 or 5140 are necessary for a transition from the standard circle 5100 to a parallel circle 5200.

Branches with the Curved Switch 5140



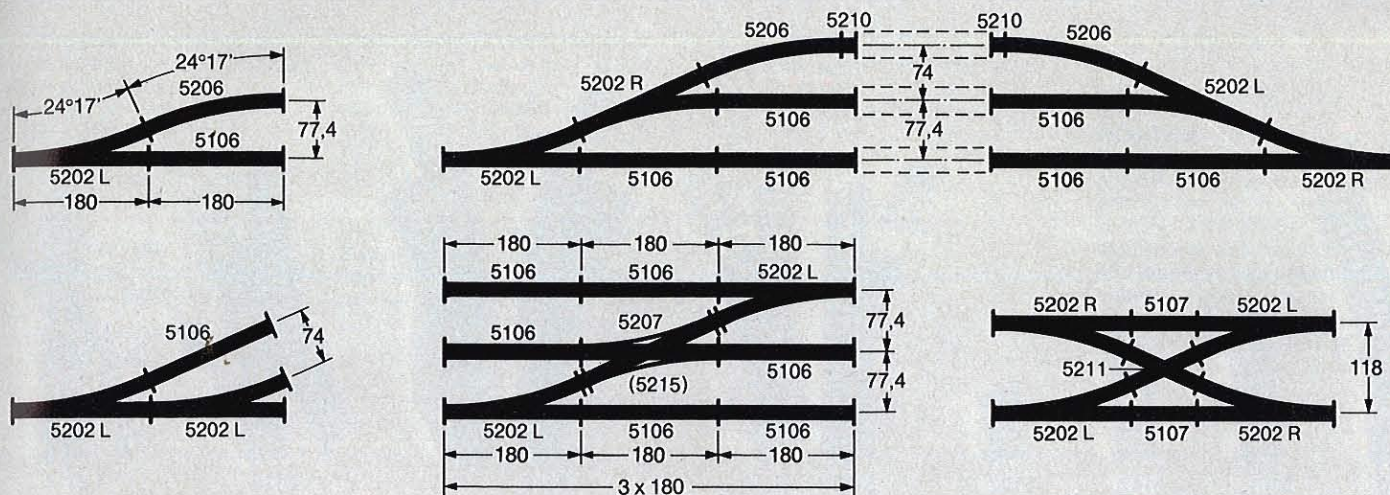
Curved switches permit operation of longer trains since slip tracks can be added on a curve.

Branches with Switches for the Standard Circle 5100

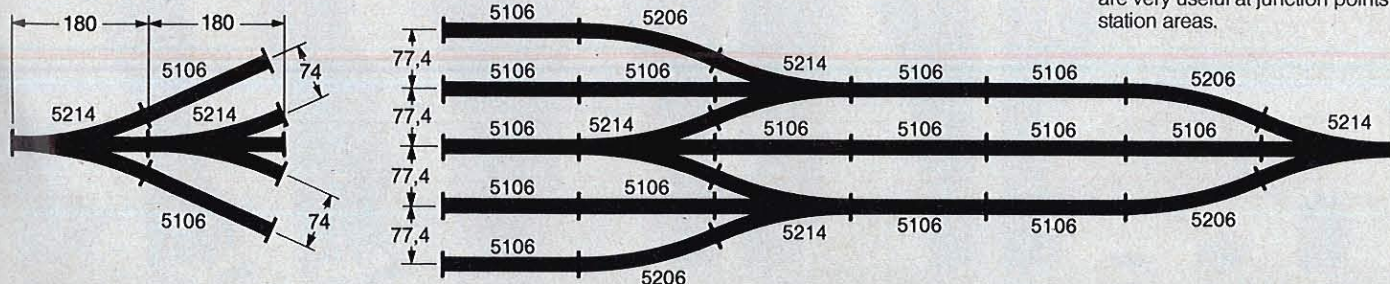




Branches with Switches for the Parallel Circle 5200

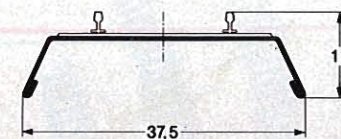


Branches with the Three Way Switch 5214



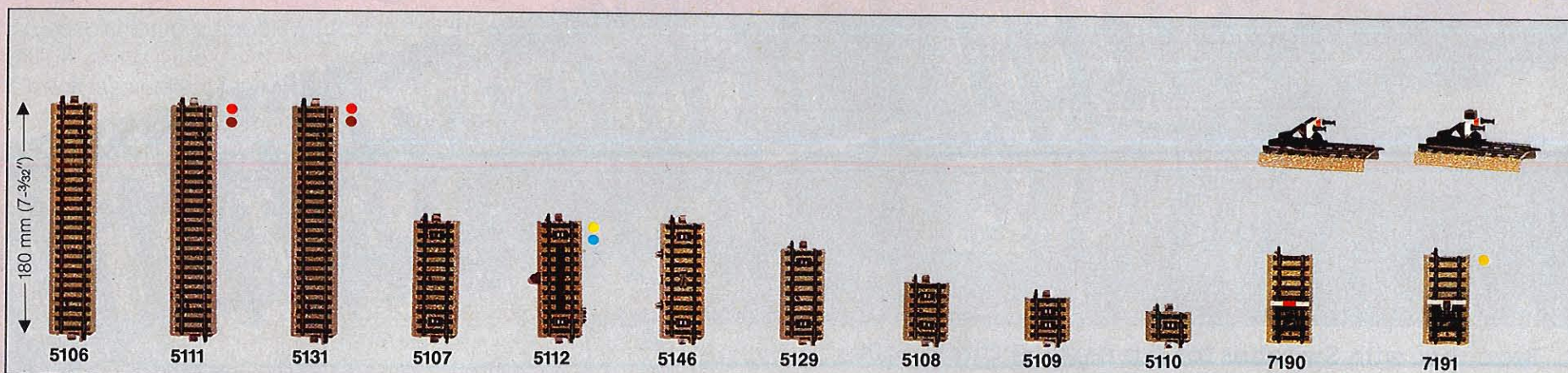
These ideas save a lot of space and are very useful at junction points and station areas.

The Distance Between Tracks

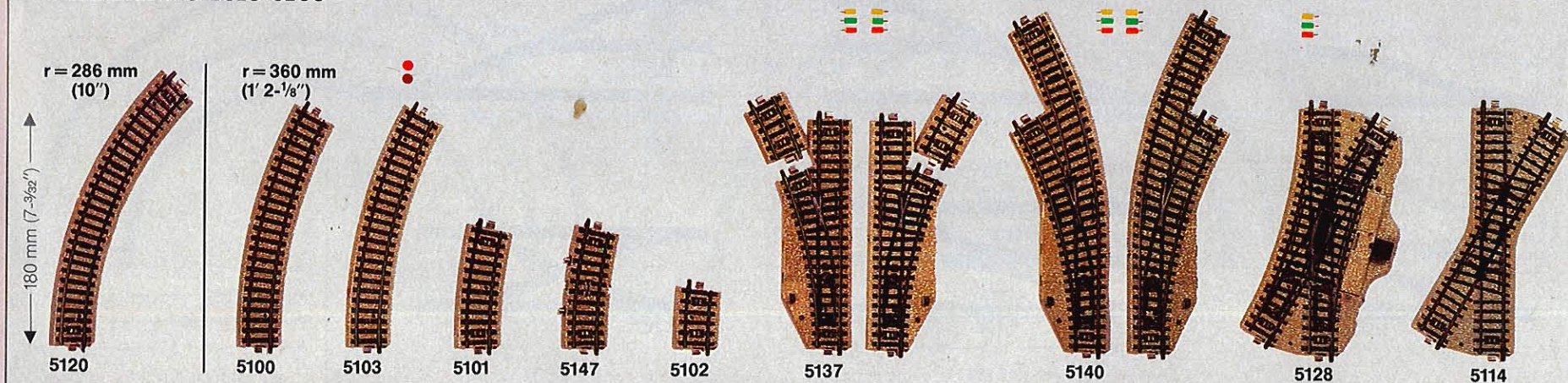


A track section is 37.5 mm (1-½") wide. On parallel tracks, the distance between two tracks should never be less than 37.5 mm (1-½"), figured center to center. On curves, the distance should be larger to allow for car overhang.

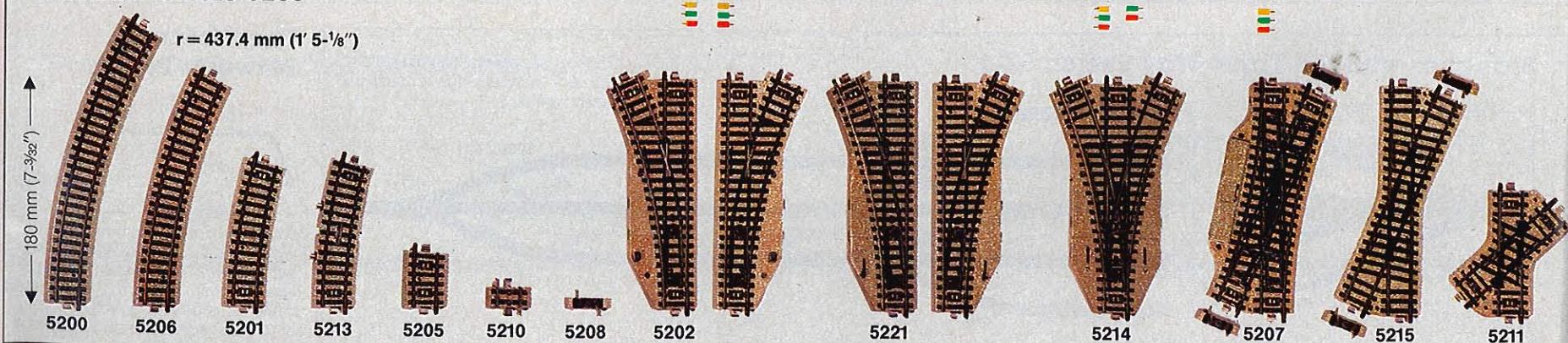
M Track



Standard Circle 5100



Parallel Circle 5200





5113 · Light Pole · For use with uncoupler track 5112 · Signal lights during uncoupling · Height 85 mm (3-3/8")

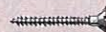
Q = 60010



2291 · Adapter Track · Length 180 mm (7-3/32") · For connecting M Track (either 5100 or 5200 series) to K Track



7171 · Sound Absorbent Strips · Pack of 50 strips with 50 wood screws · Strips absorb some of the natural sounds created when trains operate on M Tracks laid on a wood base · Strips do not affect mounting of catenary



7299 · Wood Screws · For securing M Tracks · Pack of 200



7195 · Number Plate Set · For use in identifying switches and signals on a layout · Includes 12 slotted bases and 24 number plates

5106 · Straight Track · Length 180 mm (7-3/32")

5111 · Feeder Track · Length 180 mm (7-3/32") · Has 2 leads

5131 · Feeder Track · Length 180 mm (7-3/32") · Has capacitor to suppress radio static · 2 leads · One 5131 required for each track circuit

5107 · Half Straight Track · Length 90 mm (3-9/16")

5112 · Uncoupling Track · Length 90 mm (3-9/16") · For releasing automatic couplers · Uncoupling ramp raised by remote control operation · Requires position control box 7072 (page 168) · 2 leads included

5146 · Remote Control Track · Length 90 mm (3-9/16")

5129 · Adjustment Straight · Length 70 mm (2-3/4")

5108 · 1/4 Straight Track · Length 45 mm (1-3/4")

5109 · 3/16th Straight Track · Length 33.5 mm (1-5/16")

5110 · 1/8th Straight Track · Length 22.5 mm (7/8")

7190 · Bumper · Riveted steel type · Clipped onto 70 mm (2-3/4") track section

7191 · Bumper · Illuminated · Riveted steel type · Clipped onto 70 mm (2-3/4") track section
Q = 60000

Remote Control Tracks

The remote control tracks (5146, 5147, 5213) enable moving trains to operate solenoid-controlled accessories. The controls are tripped by the sliders (pick up shoes) on locomotives or cars, and a different operation can be performed in each direction of travel. The pulses are fed through 2 sockets which are electrically isolated from each other.

5120 · 45° Curve · Tight radius for branches and industrial sidings · For use with short vehicles only

5100 · 30° Curve Track

5103 · Feeder Track · 30° curve · 2 leads

5101 · 15° Curve Track · Half section

5147 · Remote Control Track · 15° curve

5102 · 1/4 Curve Track · 7° 30' curve

5137 · Remote Control Switches · One right and one left hand switch · Illuminated · Length of tangent 180 mm (7-1/8") · Radius of curve 360 mm (1' 2-1/4") · To maintain a 5100 curvature, use section 5102 (included)
Q = 60000

5140 · Remote Control Curved Switches · One right and one left hand switch · Illuminated · Length and radii same as 5100 curve · Length of outside curve 265.4 mm (10-1/2")
Q = 60000

5128 · Double Slip Switch · 30° crossing angle · Double solenoid operation · Illuminated to indicate direction of points · Can be operated manually · Tangent 193 mm (7-5/8") · Curvature same as 5100 curve
Q = 60000

5114 · 30° Crossing · Length 193 mm (7-5/8") · Third "rails" isolated from each other

All switches have sprung points. Double solenoids for remote control operation are included with the electro-magnetic switches 5137, 5140, 5202, the double slip switches 5128, 5207 and the three way switch 5214. To operate, a position control box 7072 (page 168) or a remote control track 5146, 5147 or 5213 is required

5200 · 30° Curve Track

5206 · 24° 17' Curve Track · Same radius as the 5202 and 5221 switches

5201 · 15° Curve Track

5213 · Remote Control Track · 15° Curve

5205 · 5° 43' Curve Track · When used with a 5206, length equals a 5200

5210 · Adjustment Section · Length 16 mm (5/8")

5208 · Adjustment Section · Length 8 mm (5/16")

5202 · Remote Control Switches · One right and one left hand switch · Illuminated · Track lengths correspond to 5206 and 5106
Q = 60000

5221 · Pair of Manual Switches · Track lengths same as 5202

5214 · Symmetrical Three Way Switch · With 2 double solenoids · Can be operated manually · 5 leads included · Tangent 180 mm (7-1/8") · Curvature 437.4 mm (1' 5-1/8"), same as 5200 circle · To maintain parallel spacing of 77.4 mm (3-1/16") use 5206 track section

5207 · Double Slip Switch · Ideal for maintaining parallel track spacing of 77.4 mm (3-1/16") · Double-solenoid operation · Can be operated manually · Tangent 180 mm (7-3/32") · Curvature same as 5202, 5221, 5206 · 2 adjustment tracks 5208 included

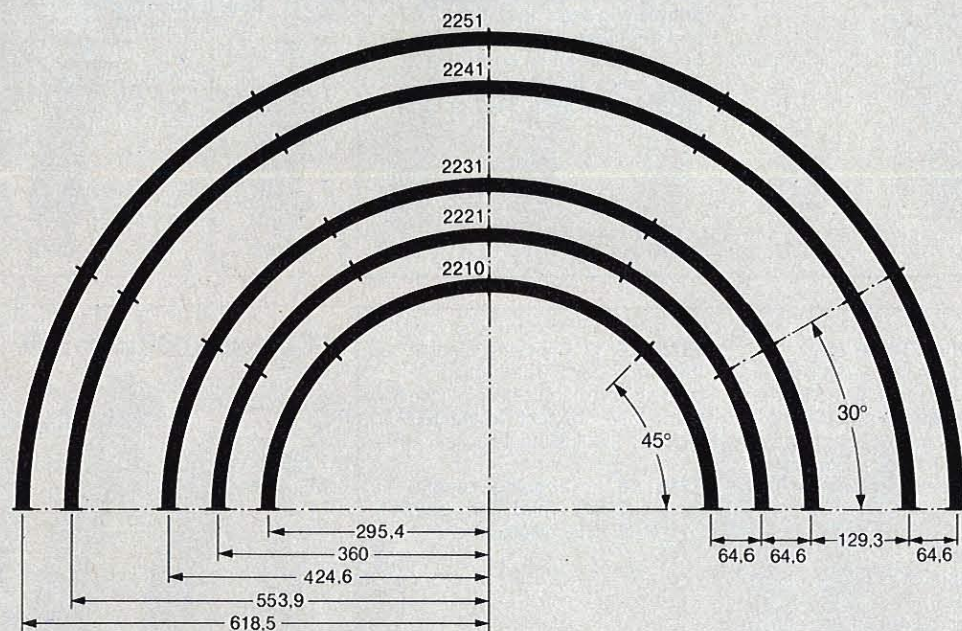
5215 · 24° 17' Crossing · Length 180 mm (7-3/32") · Third "rails" isolated from each other electrically · Same measurements as the 5207 · Includes 2 adjustment tracks 5208

5211 · 48 1/2° Crossing · Length 98 mm (3-7/8") · Third "rails" isolated from each other electrically

Tips on Using K Track

The realistic looking K Track offers five different curve radii and a flex track allowing modelers to duplicate many of the track configurations found on real railroads, such as closely paralleled tracks, long passing sidings, gentle curves and long tangents.

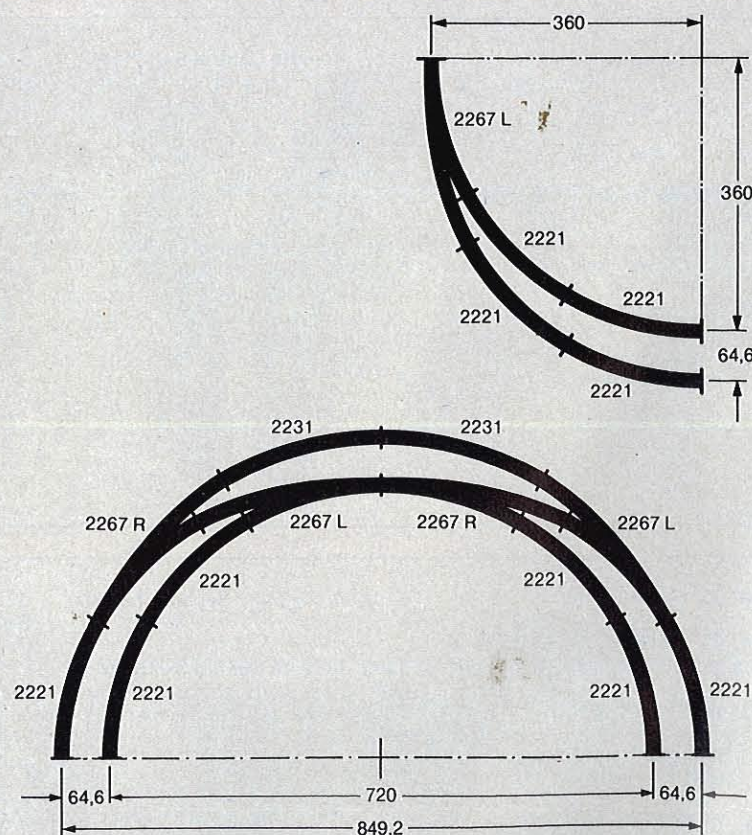
The 5 Radii



For Standard Circle I, all track sections have a **2** as the **third digit** (2221, 2223, 2224).

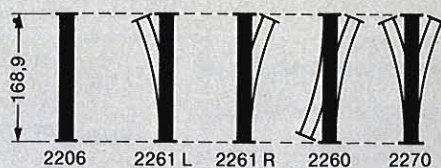
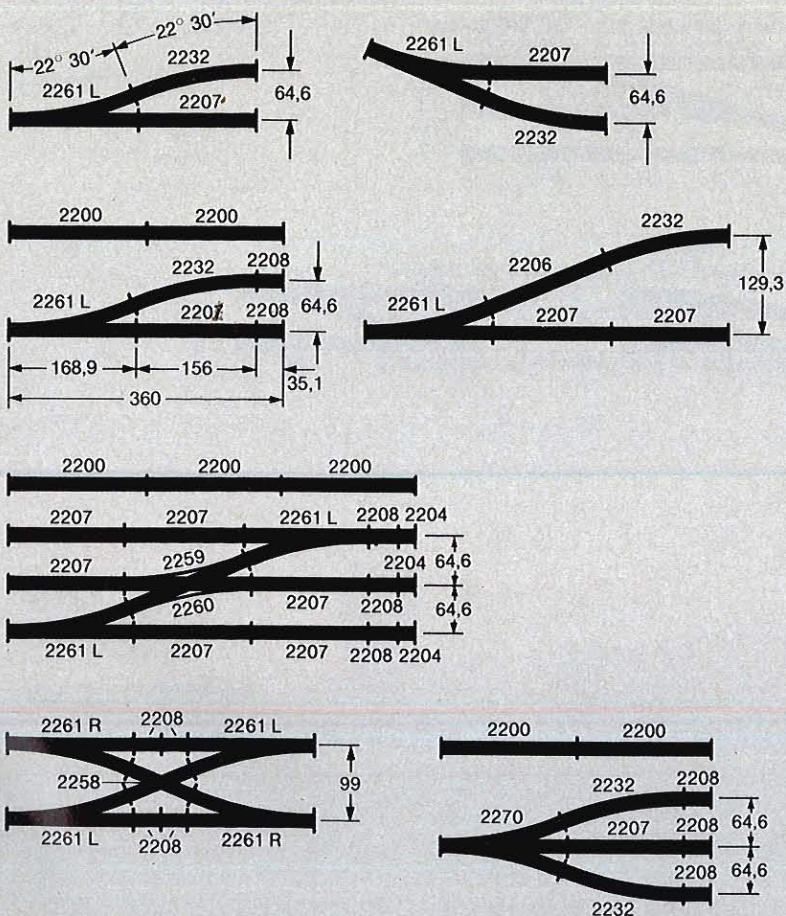
For Standard Circle II, all track sections have a **3** as the **third digit** (2231, 2232, 2233, 2234, 2235).

Branches with Curved Switches 2267



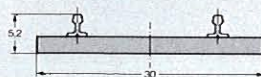
Curved switches allow the use of longer trains since slip tracks can be installed on curves.

Branches, Sidings and Crossovers



The radii for switches 2260, 2261, 2264 and 2270 are the same as the 2232 curve track and the tangents on these switches equal a 2206. Thus switches and crossings can be interchanged at will without affecting the layout's geometry.

The Distance Between Tracks

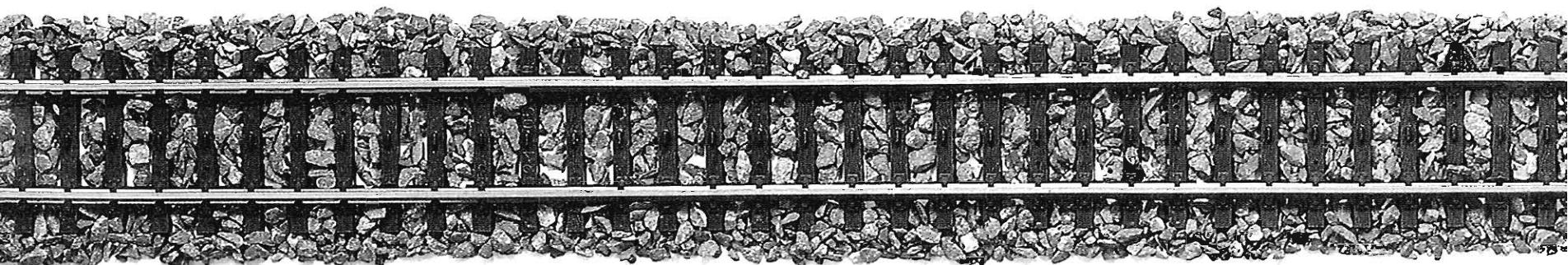
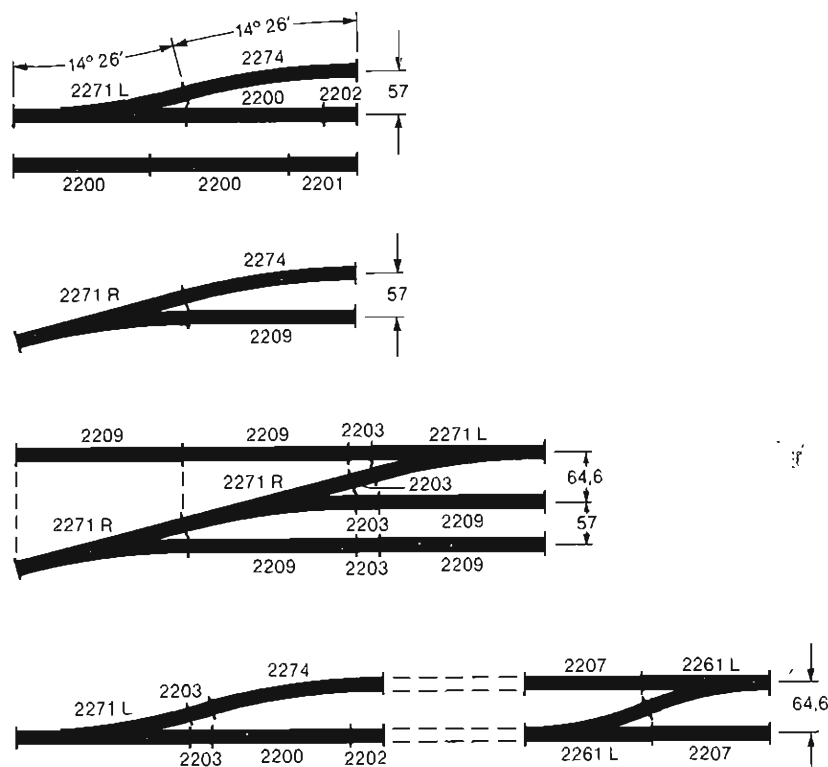


The tracks are 30 mm (1-3/16") wide and the spacing between parallel tracks should be at least 30 mm (1-3/16"), figured center to center. On curves, the distance should be greater to allow for car overhang.

The Sleek Switches

- Parallel track spacing of 57 mm (2-1/4") is possible.
- Modelers can duplicate the elegant sleek turnouts seen on high speed mainlines.
- Prototype-like track configurations are possible because the switch angle is 14° 26' and its radius is 902.4 mm (2' 11-5/8").
- Simply add a 7549 solenoid operated actuator to convert a manual 2271 to remote control operation.
- The switch machines or manual lever can be attached to either side of the switch.
- The outside running rails are indented to receive the switch points.
- The frog lines up with the switch points for almost derail-proof switching.
- The switch machine includes contacts to provide only momentary current to solenoid coils.
- The switch machines can be connected to control panels to allow for easy monitoring.
- The switch machines can be placed "out of sight" by mounting them under the train table using the under layout mounting kit 7548. The kit is adjustable for board widths 6 – 16 mm (1/4" – 5/8"). Only the corrugated iron cover remains visible on the layout.

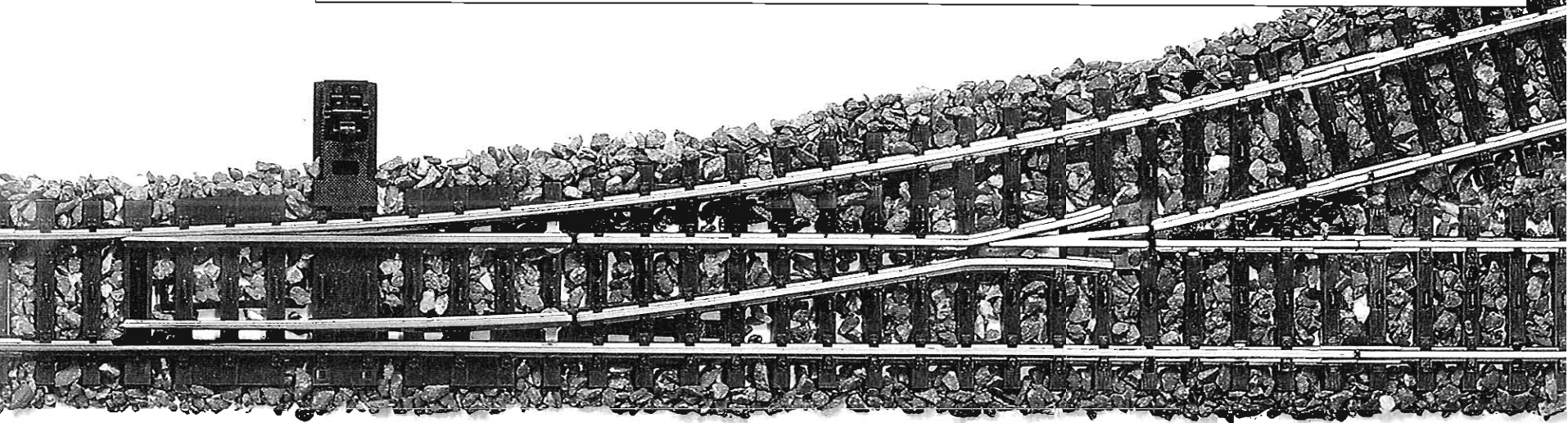
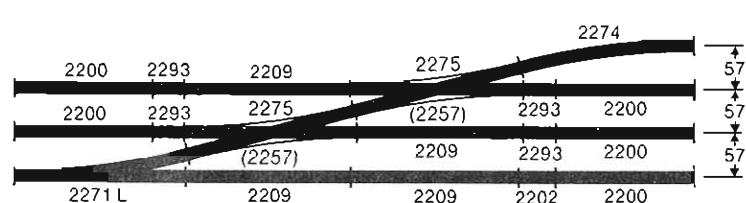
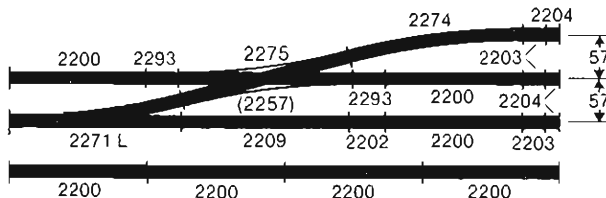
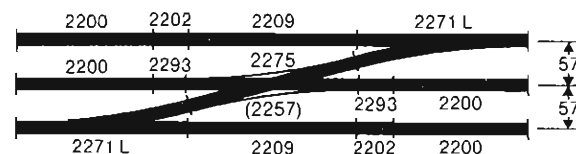
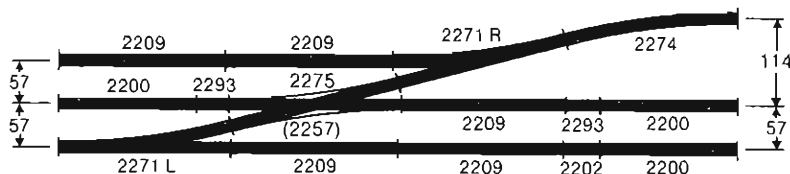
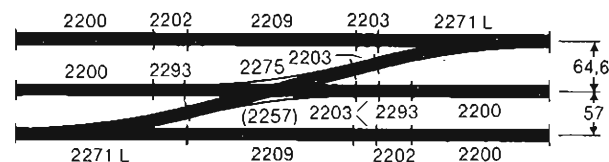
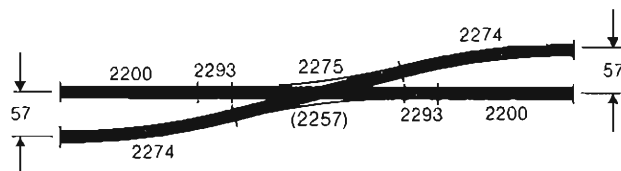
Branches with the 2271 Switches



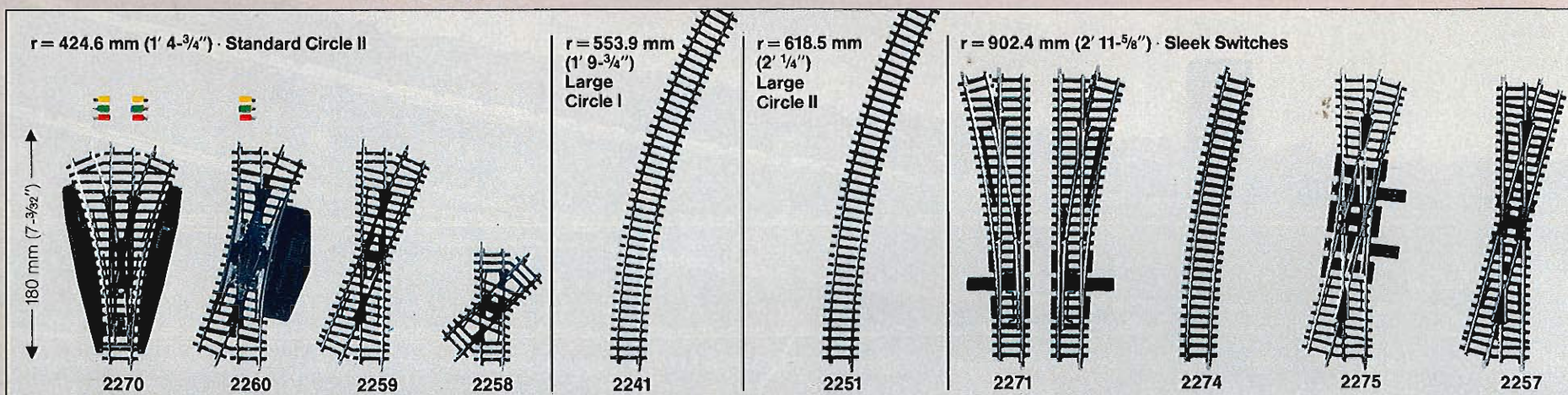
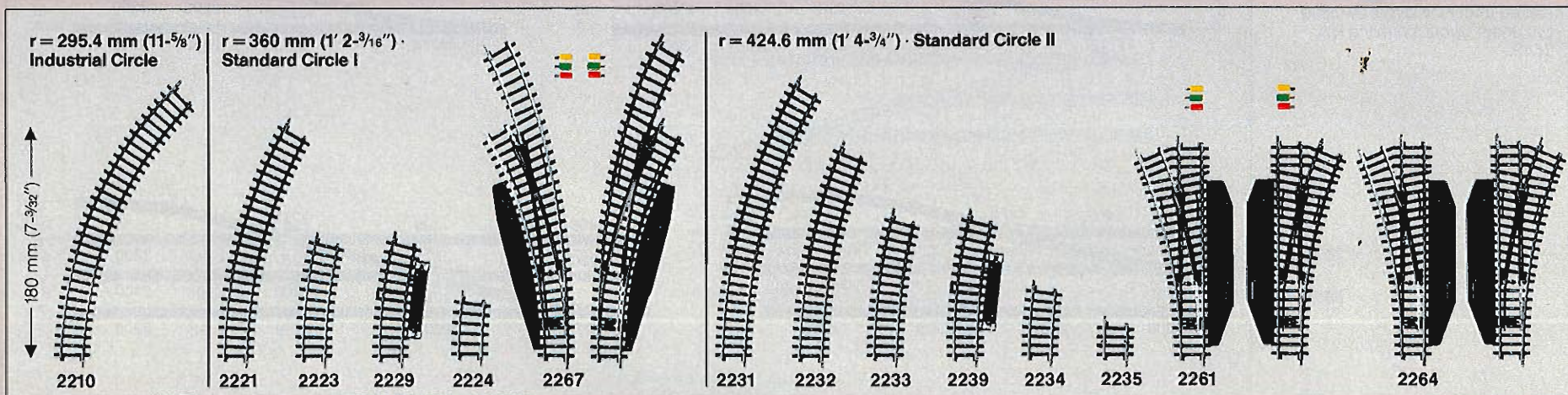
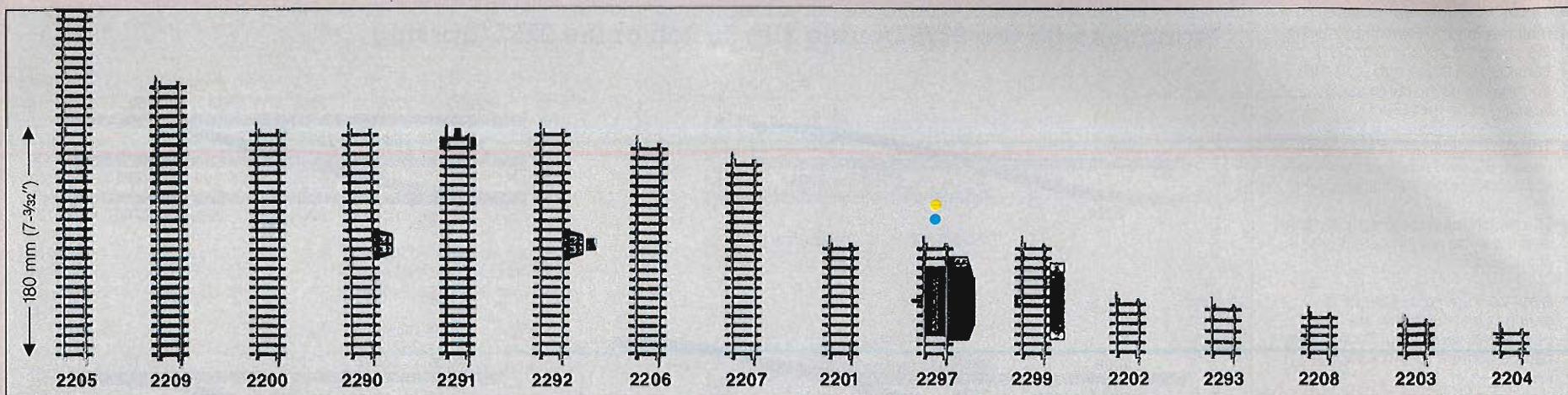
The Sleek Double Slip Switch

- The 2275 double slip switch matches the 2271 switch by having the same $14^{\circ}26'$ angle and the same radius 902.4 mm ($2'11\frac{5}{8}"$) and maintains the same track spacing of 57 mm ($2\frac{1}{4}"$).
- The two manual levers are replaceable with two solenoid operated actuators (switch machines) 7549.
- The switch machines or the manual levers can be placed on either side of the switch.
- A special highlight of the 2275 switch is that the points are independent of each other. Thus points can be aligned for two separate routes.
- The switch machines can be placed under the layout by using two under layout mounting kits 7548.

Branches with the 2275 Double Slip Switch or the 2257 Crossing



K Track



2205 · Flex Track · Length 900 mm (2' 11-7/16") · same as five regular straight tracks · Flexible · Can be carefully bent to any desired radius · Can be cut with a track saw (be sure to add rail joiners and track clips 7595 to the "new" ends)

2209 · Adjustment Track · Length 217.9 mm (8-9/16") · For keeping parallel spacing when a 2271 switch is installed on an angle

2200 · Regular Straight Track · Length 180 mm (7-3/32")

2290 · Feeder Track · Length 180 mm (7-3/32") · Includes terminals marked "O" and "B"

2291 · Adapter Track · Length 180 mm (7-3/32") · For connecting M Track (either 5100 or 5200 series) to K Track

2292 · Feeder Track · Same as 2290, but with a suppressor for radio static · One required for each circuit

2206 · Adjustment Track · Length 168.9 mm (6-5/8")

2207 · Adjustment Track · Length 156 mm (6-1/8")

2201 · Half Straight Track · Length 90 mm (3-9/16")

2297 · Uncoupling Track · Length 90 mm (3-9/16") · To release automatic couplers · A position control box 7072 (page 168) is required to operate uncoupling ramp

2299 · Remote Control Track · Length 90 mm (3-9/16")

2202 · 1/4 Straight Track · Length 45 mm (1-3/4")

2293 · Adjustment Track · Length 41.3 mm (1-5/8") · To maintain tangent with the 2275 double slip switch or the 2257 crossing

2208 · Adjustment Track · Length 35.1 mm (1-3/8")

2203 · Adjustment Track · Length 30 mm (1-3/16") · For maintaining track spacing on parallel lines

2204 · 1/8th Straight Track · Length 22.5 mm (7/8")



7595 · Rail Joiners and Track Clips · 10 of each · For 2205 track · Required for connecting the 2205 track to other tracks if the flex track has been shortened

7391 · Bumper · Riveted steel type · Clips onto rails · Length 38 mm (1-1/2") · Round head wood screw included



7599 · Wood Screws · Pack of 200 · For securing K Track

All switches have sprung points. Double solenoids for remote control operation are included with the electro-magnetic switches 2261, 2267, the double slip switch 2260, and the three way switch 2270. A position control box 7072 (page 168) or remote control tracks 2229, 2239 or 2299 are necessary to operate them.

2210 · 45° Curve Track · Tight radius for branches and industrial spurs · For short cars only

2221 · 30° Curve Track

2223 · 15° Curve Track

2229 · Remote Control Track · 15° Curve

Remote Control Tracks
The remote control tracks (2229, 2239, 2299) enable moving trains to operate solenoid-operated accessories. The sliders (pick up shoes) on locomotives and cars trip the controls and a different operation can be performed for each direction of travel. The pulses are fed through 2 sockets which are isolated from each other electrically.

2224 · 7° 30' Curve Track

2267 · Remote Control Curved Switches · On right and one left hand switch · Length and curvature of inside curve same as 2221 · Length of outside curve 244.6 mm (9-5/8")

2231 · 30° Curve Track

2232 · 22° 30' Curve Track

2233 · 15° Curve Track

2239 · Remote Control Track · 15° curve

2234 · 7° 30' Curve Track

2235 · 3° 45' Curve Track

2261 · Remote Control Switches · One right and one left hand switch · Illuminated · Radius 424.6 mm (1' 4-3/4") · Tangent 168.9 mm (6-5/8")
G = 60000

2264 · Manual Switches · One right and one left hand switch · Radius 424.6 mm (1' 4-3/4") · Tangent 168.9 mm (6-5/8")



7549 · Solenoid Operated Actuator (switch machine) · For converting 2271 and 2275 to remote control operation · Two actuators needed for the 2275 · Fits on either side · Can be placed under the layout by using under layout mounting kit 7548 · Includes momentary current contacts · Can be connected to a control board

2270 · Symmetrical Three Way Switches · With 2 double solenoids · Can be operated manually · Tangent length 168.9 mm (6-5/8") · Radius 424.6 mm (1' 4-3/4")

2260 · Double Slip Switch · Radius 424.6 mm (1' 4-3/4") · Remote control operation · Can be operated manually · Length of tangents 168.9 mm (6-5/8")

2259 · 22° 30' Crossing · Tangent 168.9 mm (6-5/8")

2258 · 45° Crossing · Tangent 90 mm (3-9/16")

2241 · 30° Curve Track

2251 · 30° Curve Track

2271 · Manual Switches · One right and one left hand switch · Radius 902.4 mm (2' 11-5/8") · Tangent 225 mm (8-1/8") · Angle 14° 26' · Manual lever replaceable with solenoid operated actuator 7549

2274 · Curve Track · Radius 902.4 mm (2' 11-5/8") · Length 14° 26' · Same radius as 2271 switch

2275 · Double Slip Switch · Matches the 2271 switch · Tangent 225 mm (8-1/8") · Angle 14° 26' · 2 manual levers replaceable with 2 solenoid operated actuators 7549 · Each point lined separately

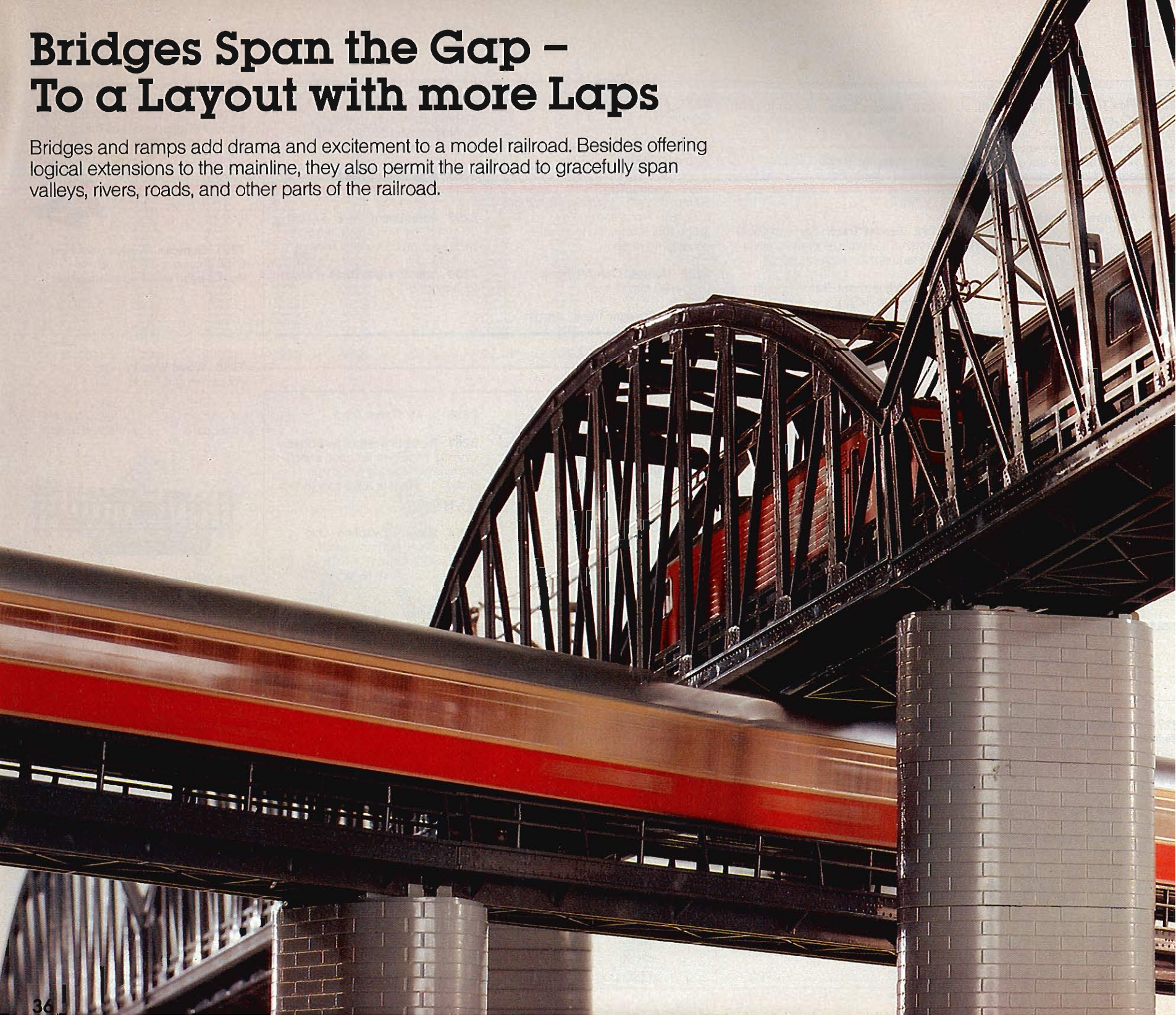
2257 · 14° 26' Crossing · Tangent 225 mm (8-1/8")



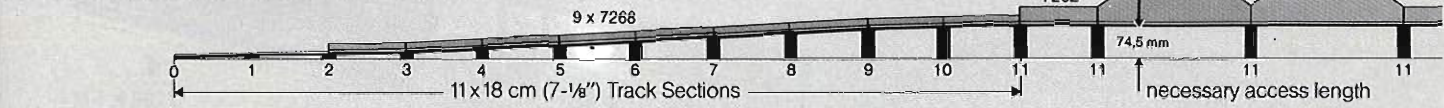
7548 · Under Layout Mounting Kit · For mounting the 7549 switch machines out of sight under the layout · Works with the 2271 and 2275 switches · Adjustable for board widths 6 - 16 mm (1/4" - 5/8")

Bridges Span the Gap – To a Layout with more Laps

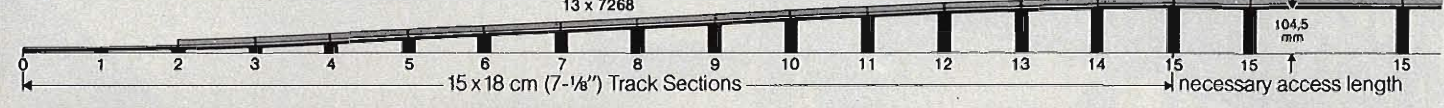
Bridges and ramps add drama and excitement to a model railroad. Besides offering logical extensions to the mainline, they also permit the railroad to gracefully span valleys, rivers, roads, and other parts of the railroad.



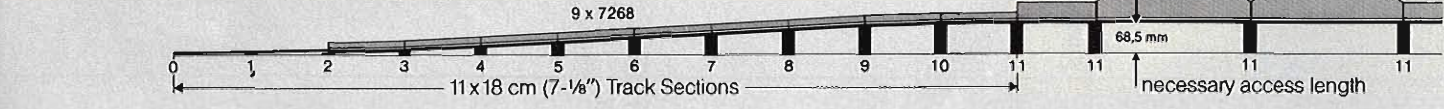
I A Grade with M Tracks for Steam and Diesel Engines



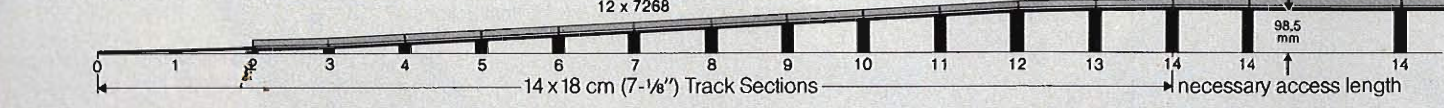
II A Grade with M Tracks for Electrics with Catenary



III A Grade with K Tracks for Steam and Diesel Engines



IV A Grade with K Tracks for Electrics with Catenary



The drawings shown here illustrate how many track sections are required for the access ramps. Thus each model railroader can quickly see how this interesting stretch of track can be added to a particular layout. Just look at the figures for the necessary number of pillar sections. The grade is 5 % and is tapered at the beginning and the end.

Bridges and access ramps can be placed in most any desired combination. The pillar sections 7252 and 7253, which connect to each other like building blocks, allow for raising the track in 6 mm (1/4 inch) increments. Smaller increments (3 mm - 1/8 inch) are possible with the base plates 7250 and 7251. Pillar sections and base plates can be fastened to the track-board with the 7599 wood screws.

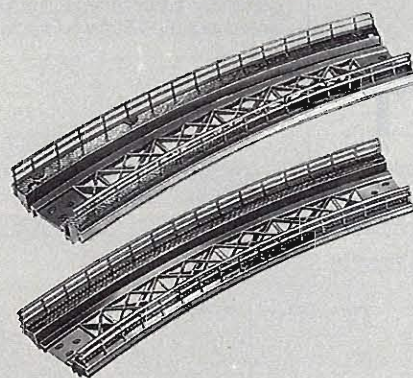
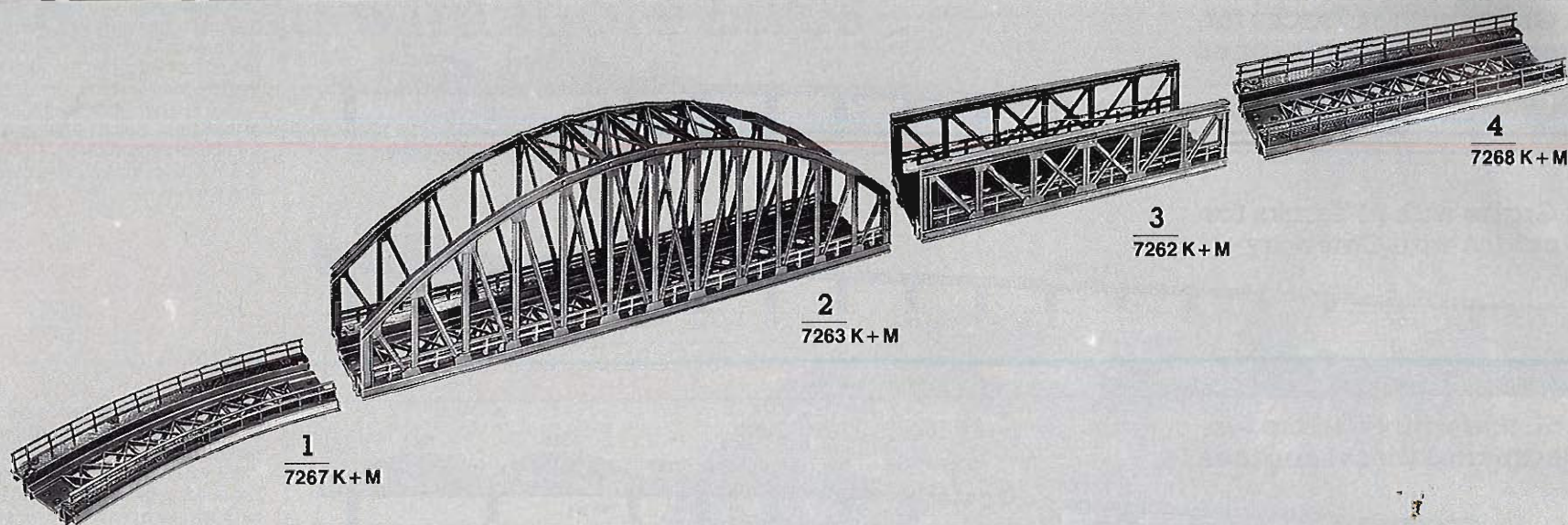
Pillar Requirements for M Track

I	Pillar No.	Pillar Height mm/inch	7250 2,5 mm (3/32")	7251 3 mm (1/8")	7252 6 mm (1/4")	7253 30 mm (1-3/16")
1	2,5 (3/32")	1				
2	5,5 (7/32")	1	1			
3	11,5 (29/64")	1	1	1		
4	20,5 (13/16")	1			3	
5	29,5 (1-5/32")	1	1	4		
6	38,5 (1-33/64")	1		1	1	
7	47,5 (1-7/8")	1	1	2	1	
8	56,5 (2-15/64")	1		4	1	
9	65,5 (2-37/64")	1	1		2	
10	74,5 (3-13/16")	1	1	1	2	
11	83,5 (3-9/32")	1		2	2	
12	92,5 (3-21/32")	1		3	2	
13	101,5 (4")	1		1	3	
14	104,5 (4-1/8")	1		2	3	
Total			11	6	18	9

Pillar Requirements for K Track

III	Pillar No.	Pillar Height mm/inch	7250 2,5 mm (3/32")	7251 3 mm (1/8")	7252 6 mm (1/4")	7253 30 mm (1-3/16")
1	2,5 (3/32")	1				
2	5,5 (7/32")	1	1			
3	11,5 (29/64")	1	1	1		
4	20,5 (13/16")	1	1	2		
5	29,5 (1-5/32")	1	4			
6	38,5 (1-33/64")	1	1	1	1	
7	47,5 (1-7/8")	1	2	1		
8	56,5 (2-15/64")	1	1	3	1	
9	65,5 (2-37/64")	1	2		2	
10	74,5 (3-13/16")	1	1	2		
11	83,5 (3-9/32")	1	1	2		
Total			11	4	13	9

IV	Pillar No.	Pillar Height mm/inch	7250 2,5 mm (3/32")	7251 3 mm (1/8")	7252 6 mm (1/4")	7253 30 mm (1-3/16")
1	2,5 (3/32")	1				
2	5,5 (7/32")	1	1			
3	11,5 (29/64")	1	1	1		
4	20,5 (13/16")	1	1	2		
5	29,5 (1-5/32")	1	4			
6	38,5 (1-33/64")	1	1	1	1	
7	47,5 (1-7/8")	1	2	1		
8	56,5 (2-15/64")	1	1	3	1	
9	65,5 (2-37/64")	1	2		2	
10	74,5 (3-13/16")	1	1	2		
11	83,5 (3-9/32")	1	1	2		
12	92,5 (3-21/32")	1	1	4	2	
13	101,5 (4")	1	1	3		
14	104,5 (4-1/8")	1	1	1	3	
Total			14	6	21	17



5
7269 for M only

6
7569 for K only

1
7267 K + M · Curved Ramp · Radius 360 mm (1' 2-1/8") · For K or M Tracks · Has 3 clips for securing K Tracks · Length and radius same as 2221 and 5100

2
7263 K + M · Through Bridge · For K or M Tracks · Has 6 clips for securing K Tracks · Instructions · Center height 117 mm (4-5/8") · Length 360 mm (1' 2-1/8")

3
7262 K + M · Truss Bridge · Can be used alone or with the 7263 through bridge · For K or M Tracks · Has 3 clips for securing K Tracks · Instructions · Height 45 mm (1-3/4") · Length 180 mm (7-3/32")

4
7268 · K + M · Straight Ramp · For K or M Tracks · Has 3 clips for securing K Tracks · Length 180 mm (7-3/32")

5
7269 for M only · Curved Ramp · Radius 437.4 mm (1' 5-1/8") · For 5200 M Tracks only · Length and radius same as 5200 track section

6
7569 for K only · Curved Ramp · Radius 424.6 mm (1' 4-3/4") · For K Tracks only (standard circle II, see page 34) · 3 clips for securing track · Length and radius same as 2231 track section

7
7234 · Base Plate · For securing 7200 series signal masts to bridges

8
7250 · Base Plate · For pillar foundation · 2.5 mm (1/16") thick

9
7251 · Base Plate · For use with the 7250 · 3 mm (1/8") thick

10
7252 · Pillar · 6 mm (1/4") high · For building ramps in 6 mm (1/4") increments

11
7253 · Pillar · 30 mm (1-3/16") high



7
7234



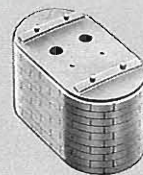
8
7250



9
7251

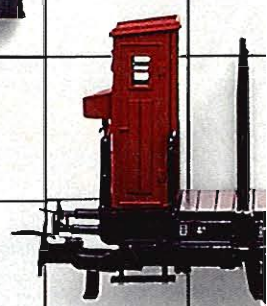
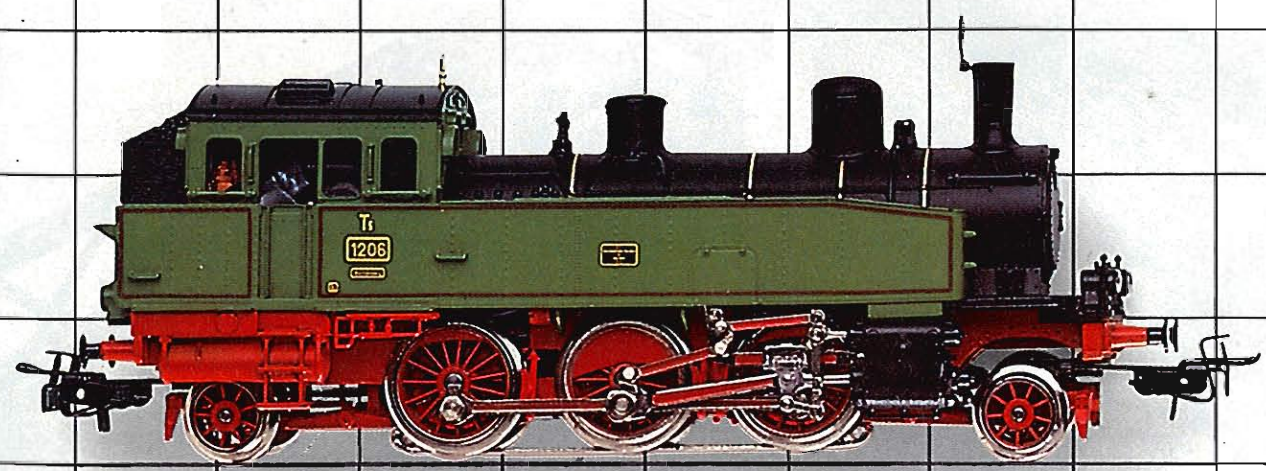
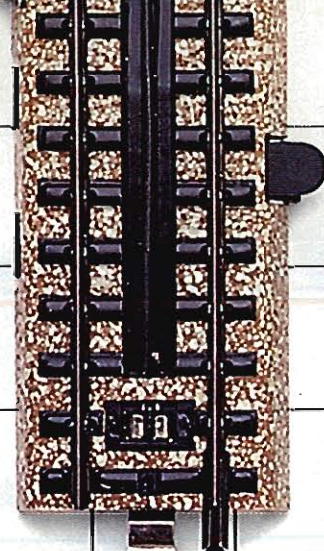


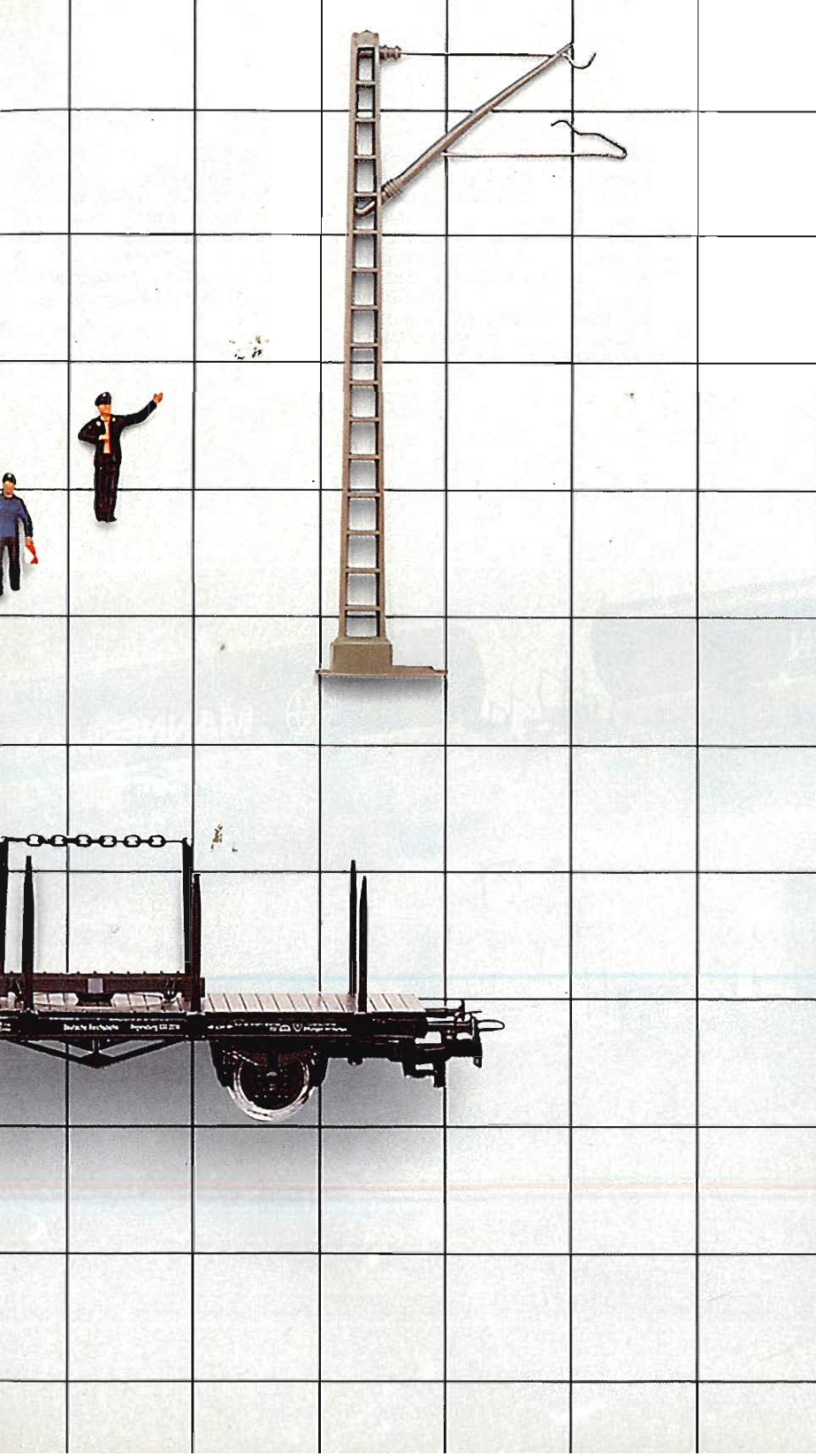
10
7252



11
7253







Let Her Roll

The moment finally arrives. After planning and building the layout, it's time to unbox the engine and cars for the maiden run. The layout comes to life!

Märklin's engines and cars are picture-perfect models of the real thing as seen on world famous railroads. The models incorporate excellent details and are world renowned for stability and reliability.

Märklin's unique center "rail" system feeding current to the locomotives via the engine's sliders guarantees smooth-running, trouble-free operation.

Because the directional switch is in the locomotive, it is possible to have two engines running in opposite directions on the same track circuit. Märklin model railroaders can duplicate the excitement of real railroad operations.

Marshalling and switching of cars is equally fun-filled and realistic because of the remote-controlled uncoupling made possible with the RELEX couplers or the TELEX couplers found on the 3309, 3096, and 3065.

It's just typically Märklin.

Special Trains

These trains make fine gifts – they are specially packaged, perfectly scaled replicas of real trains. Cars and engines not available separately.

1
2854



2 NEW
2857

1

2854 · Unit Train of Mannesmann Pipes · Includes: 1 class 86 tank locomotive with new road number, 6 special duty flat cars (floor centers pivot) for the German Federal Railways loaded with Mannesmann pipes and 1 package car with new road number and rear markers · Entire train is a special run · Cars and locomotives not available separately · Train length 99.5 cm (3' 3-3/4")

■ Prior to 1968, steam engines hauled pipe trains on non-electrified sections of the German Federal Railways. Between 1966 and 1968 almost 500,000 tons of pipe were delivered to ports like Bremen, Hamburg and Rotterdam for export. Mannesmann pipes were used to transport oil, gas and water.

2

**A Limited-run Honoring the Märklin
125 Anniversary. Only available
1984.**

**2857 · Royal Württemberg State
Railways Freight Train · Includes:**
1 class T 5 tank locomotive with road
number 1205, 1 "Zeller & Gmelin" tank
car, 1 "Wilhelm Burck" tank car, 1 "Ver-
einigte Brauereien Stuttgart-Tübingen
AG" beer car, 1 "Staufen-Bräu Göppin-
gen" beer car, 1 "Gebr. Märklin & Co."
box car · Entire train has a slightly
weathered look · Cars and engine not
available separately · Train length
70 cm (2' 4")

■ The Esslingen and Heilbronn
Machine Works built the class T 5 for
the Royal Württemberg State Railways
in 1910. They were originally intended
for use on the fast passenger trains
plying the short mainlines and impor-
tant branches. The engines soon
proved to be very utilitarian and were
shortly seen on the point of freight
trains as well.

Freight cars were generally painted
dark green. After 1909, the year of the
founding of the German Rail Car
Association, the color was changed to
rustbrown which was more resistant to
dirt and fading. Added splashes of
color were provided by the large
number of private cars and cars of
other railroads.



1
2855



2
2856





1

2855 · EVA Unit Train · Includes: 1 class 212 diesel with new road number and 6 four-wheel tank cars lettered for Eisenbahn-Verkehrsmittel-Aktiengesellschaft (EVA) with individual car numbers · Entire train has a slightly weathered look · Cars and engine not available separately · Train length 81 cm (2' 7-1/8")

■ The Eisenbahn-Verkehrsmittel-Aktiengesellschaft (EVA) leases special duty cars to various industries. Petroleum products are transported in tank cars leased from EVA. In Germany, tank cars are privately owned or leased, the Federal Railways does not field tank cars of its own. EVA tank cars carry about 10 million tons of petroleum products to refineries, dealers and users each year.

2

2856 · Airport Train · Includes: 1 class 111 electric locomotive with new road number and single-arm pantograph, 1 1st and 2nd class commuter car and 2 2nd class commuter cars with individual road numbers · Entire train is a special run · Cars and engine not available separately · Train length 102 cm (3' 4-1/2") · Cars will accept interior lighting unit 7329 (page 137)

■ The Airport Train is a service of the German Federal Railways offering direct connections between Ludwigs-hafen and the Frankfurt (M) airport. The express commuter train makes two round trips daily, stopping at Mannheim, Weinheim, Heppenheim, Bensheim and Darmstadt.

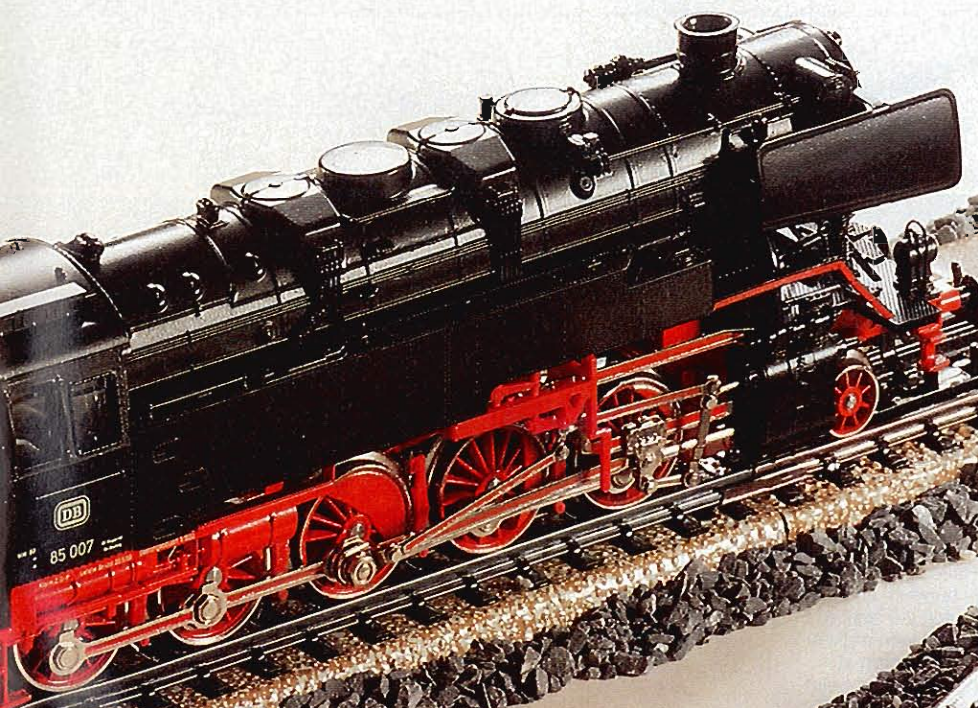
Full Steam Ahead

The little teakettles and puffing Billys that darkened the skies and ignited the imagination of millions over 100 years ago ushered in the new age of transportation; the age of railroading. Today's railroads owe their heritage to the early steam locomotives.

What is "more powerful than a locomotive"? The large boiler, the oiled cylinders, hypnotic side-rod action, the insatiable fire and the cloud of trailing smoke are just some of the visual signs of a steam engine's raw power. Then, as now, a steam locomotive is a sight to see.

Over the years steam locomotives evolved into various types in order to best use its power. From switchers, to Pacifics, to Mallets, each kind of steamer had a wheel configuration which made optimum use of its power for a given type of service.

This variety of steam locomotives is duplicated in the Märklin program. These engines help any modeler relive the age of the steel giants.

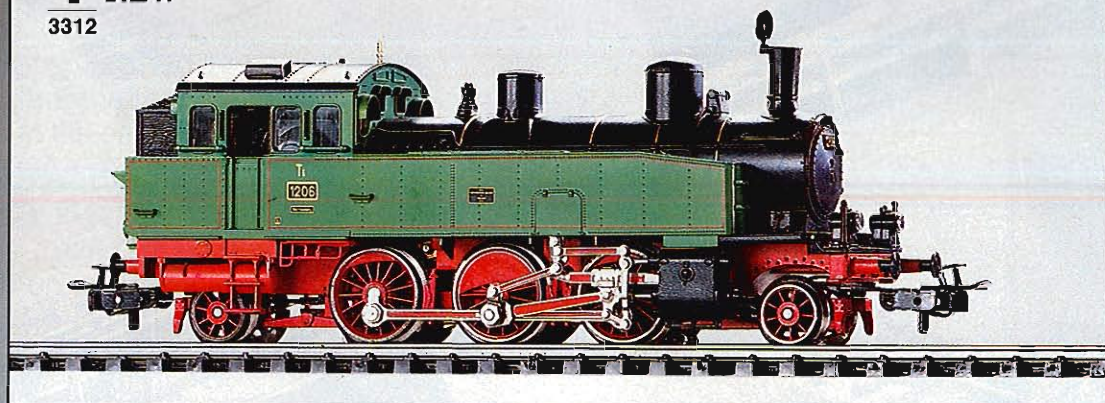




■ The Esslingen and Heilbronn Foundries built the T 5 class locomotives for the Royal Württemberg State Railways from 1910 on. These beauties were designed primarily for fast passenger trains on short mainline runs and major branches. It was shortly discovered, however, that the engine's fine construction made it a universal workhorse. 89 of these streamers survived into the 1950s on the German Federal Railways and the last one was retired in 1963.

1 NEW

3312

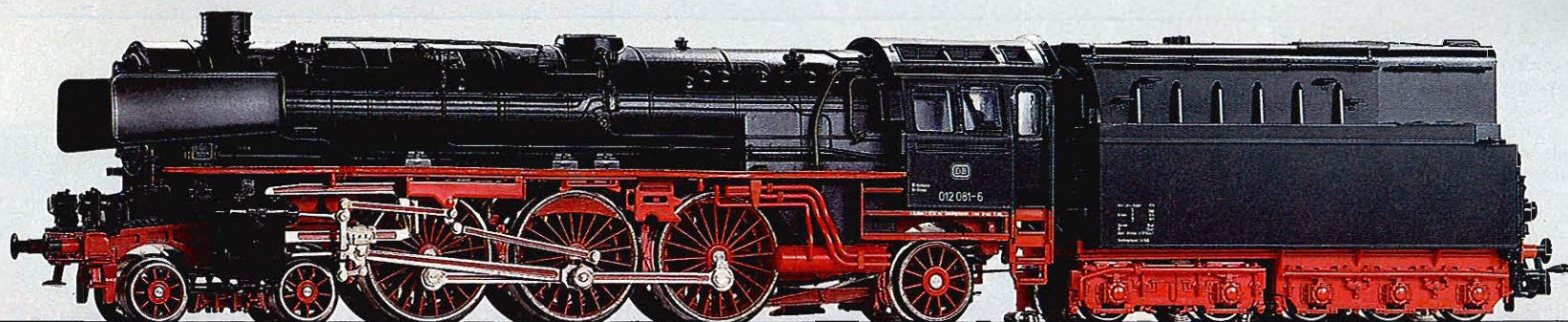


1

3312 · Tank Locomotive · Royal Württemberg State Railways' class T 5, No. 1206 · All drivers powered · 2 non-skid tires · Two working headlights at each end · Metal boiler · Moveable smokestack lid · Metal trucks · RELEX-couplers (pages 40/138) at each end · Electronic direction control switch · Length over buffers 13.9 cm (5-½")

⊙ = 7153 ⊞ = 7185 ⊕ = 60019

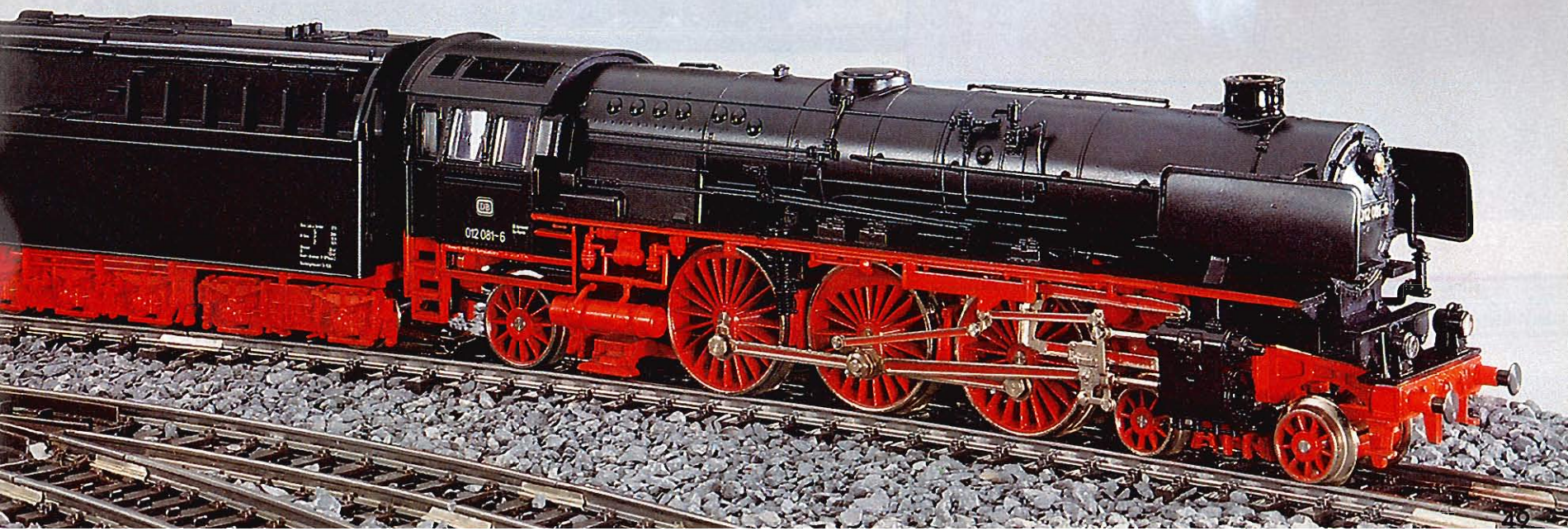




2
3310 · Express Locomotive with
Tender · German Federal Railways'
class 012 · All drivers powered · 2 non-
skid tires · Three working headlights
on front of locomotive and rear of
tender · Metal boiler · Metal trucks ·
RELEX-couplers (pages 40/138) on
tender · Electronic direction control
switch · Length over buffers 27.8 cm
(10-15/16") · Accepts smoke unit 7226
(page 57)



0 = 7152 = 7164 = 60019

■ Those of the former German State
Railways class 01¹⁰ streamlined
engines which were acquired by the
German Federal Railways were
modified during the years 1953–1957
with new welded heavy duty boilers.
In addition, 34 machines also were
rebuilt into oil burners from
1956–1958. The major result of all this
was that these engines were now
capable of long-distance operation,
as much as 450 km (275 miles) or
more, depending upon boiler ratings.
In 1961, the engines received an
additional main burner, making the
class 012 the strongest German steam
locomotive.

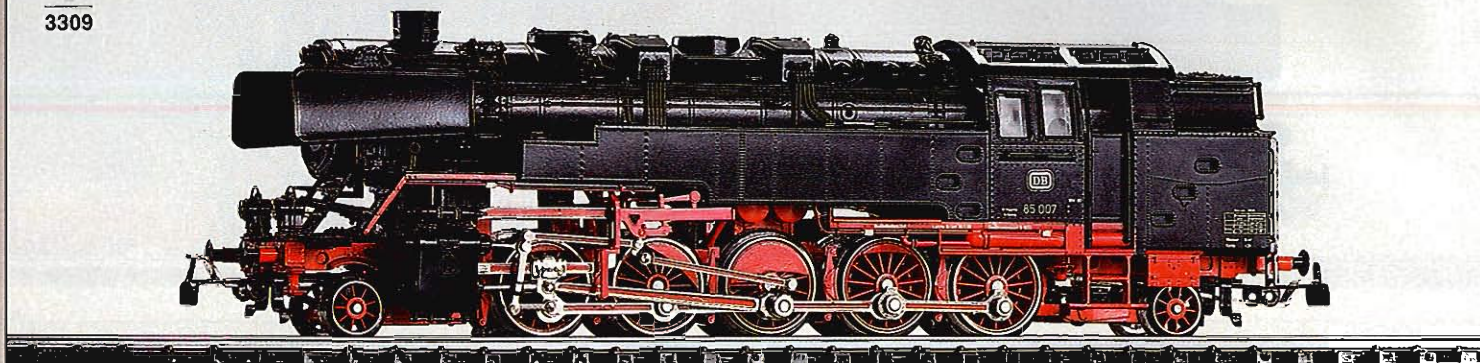


1

3309 · Tank Locomotive with TELEX-Couplers · German Federal Railways' class 85 · All drivers powered · 4 non-skid tires · Three working headlights at each end · Metal boiler · Metal trucks · Good cornering ability because drivers are coupled · TELEX-couplers (pages 40/138) at each end · Electronic direction control switch · Length over buffers 18.6 cm (7-5/16") · Accepts smoke unit 7226 (page 57)



0 = 7153  = 7164  = 60019

1
3309

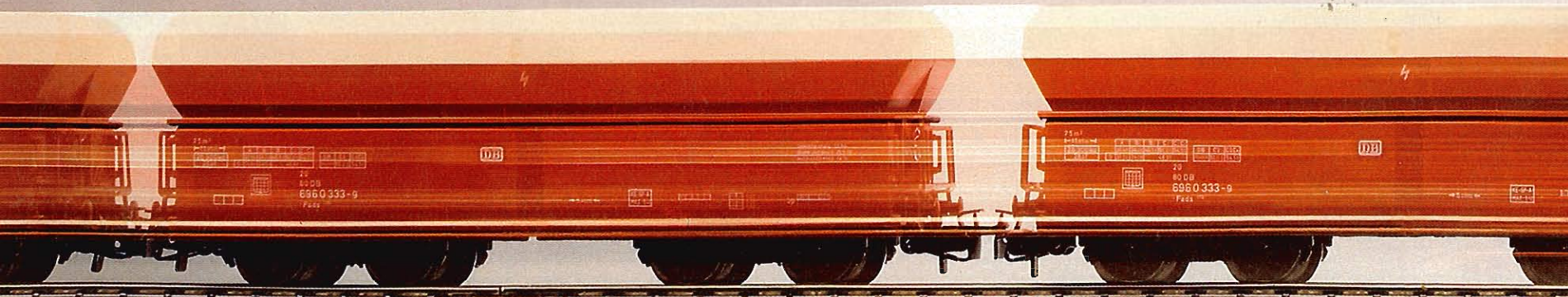
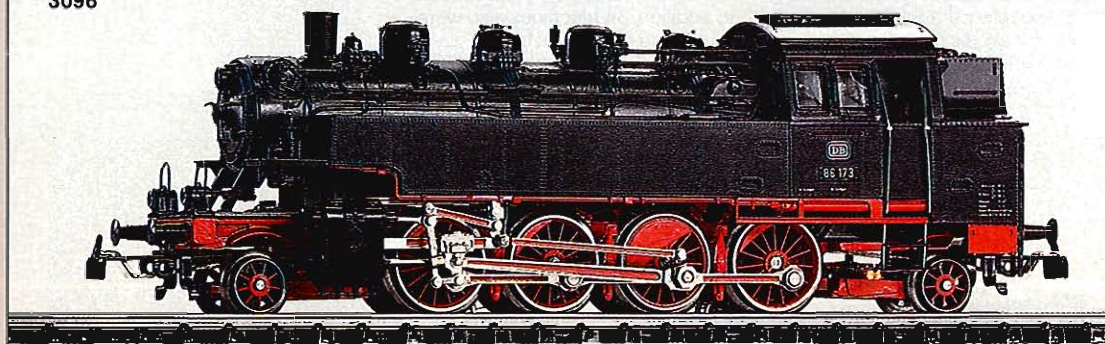


2

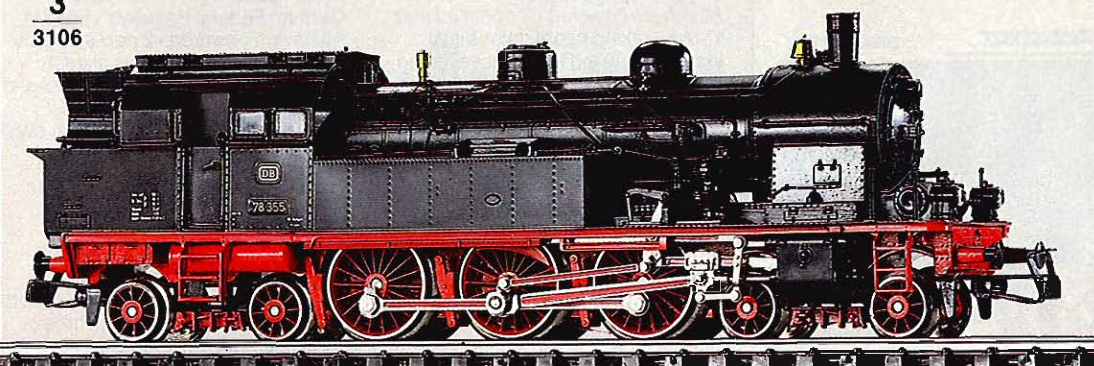
3096 · Tank Locomotive with TELEX-Couplers · German Federal Railways' class 86 · All drivers powered via connecting rods · 2 non-skid tires · Three working headlights at each end · Metal trucks · TELEX-couplers (pages 40/138) at each end · Length over buffers 15.8 cm (6-1/4")

0 = 7153  = 7164  = 60015

2
3096





3
3106





3

3106 · Tank Locomotive · German Federal Railways' class 78 · All drivers powered · 2 non-skid tires · Three working headlights at each end · Metal boiler · Metal trucks · Coupling hooks with pre-uncoupler at each end · Length over buffers 16.9 cm (6-5/8")

① = 7153  = 7164  = 60015

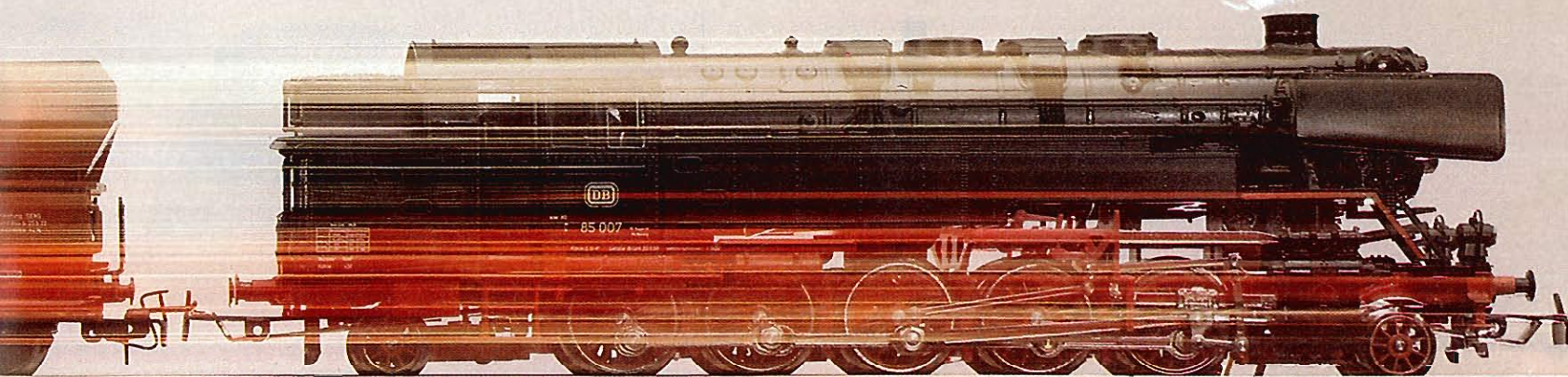
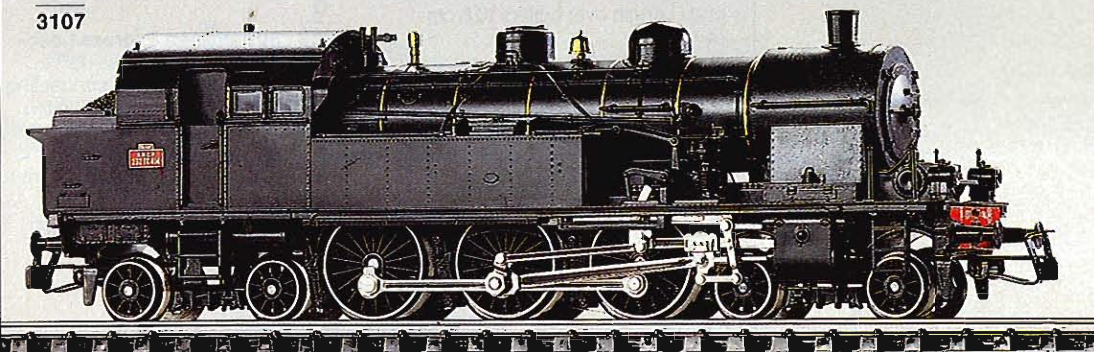
4 France

3107 · Tank Locomotive · French State Railways' (SNCF) class 232 TC · All drivers powered · 2 non-skid tires · Two working headlights at each end · Metal boiler · Metal trucks · Coupling hooks with pre-uncoupler at each end · Length over buffers 16.9 cm (6-5/8")

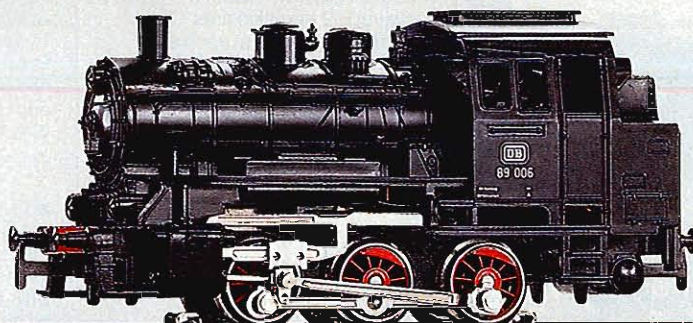
① = 7153  = 7164  = 60015

■ During the years 1915–1918, the Vulcan Locomotive Foundry in Stettin built 27 Prussian-class T 18 engines for the Alsace-Lorraine Railways. After 1918, the locomotives were taken over by the French State Railways. The French classed them as the 232 TC Nos. 401–427 (ex AL 8401–8427).

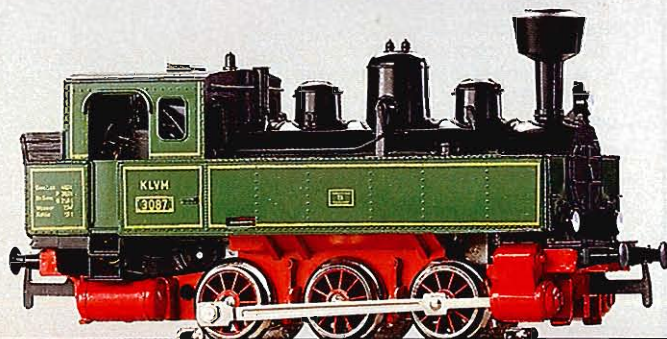
4 NEW
3107



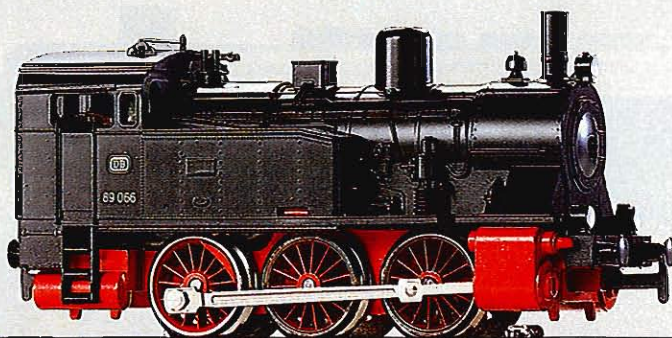
1
3000




2
3087




3
3104




1

3000 · Tank Locomotive · Class 89 · All drivers powered · 2 non-skid tires · Three working headlights · Metal trucks · Coupling hooks at each end · Length over buffers 11 cm (4-15/16")
 ① = 7154  = 7185 ② = 60010


2

3087 · Tank Locomotive · German provincial railways' type · One pair of drivers powered · 2 non-skid tires · Metal trucks · Coupling hooks at each end · Length over buffers 10.8 cm (4-1/4")
 ① = 7154  = 7185


3

3104 · Tank Locomotive · German Federal Railways' class 89° · One pair of drivers powered · 2 non-skid tires · Metal trucks · Coupling hooks at each end · Length over buffers 10.8 cm (4-1/4")
 ① = 7153  = 7185


4

3003 · Locomotive with Tender · German Federal Railways' class 24 · All drivers powered · 2 non-skid tires · Three working headlights at each end · Metal trucks · Coupling hooks at the front · RELEX-coupler (pages 40/138) at rear of tender · Length over buffers 20 cm (7-7/8")
 ① = 7153  = 7185 ② = 60010

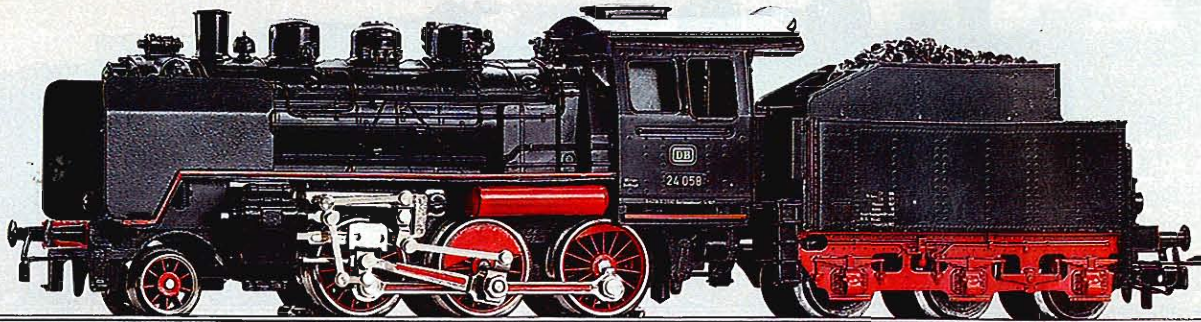
5

3095 · Tank Locomotive · German Federal Railways' class 74 · All drivers powered · 2 non-skid tires · Three working headlights · Metal trucks · Coupling hook with pre-uncoupler at the front · RELEX-coupler (pages 40/138) at the rear · Length over buffers 13.5 cm (5-5/16")
 ① = 7153  = 7185 ② = 60010

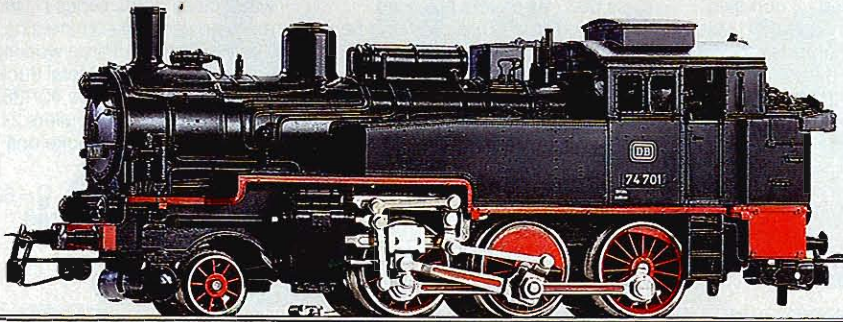
6

3089 · Streamlined Express Locomotive with Tender · Class 03¹⁰ · Driving axles powered via connecting rods · 2 non-skid tires · Two working headlights · Metal body · Metal trucks · RELEX-coupler (pages 40/138) on tender · Length over buffers 27.4 cm (10-3/4")
 ① = 7152  = 7185 ② = 60015

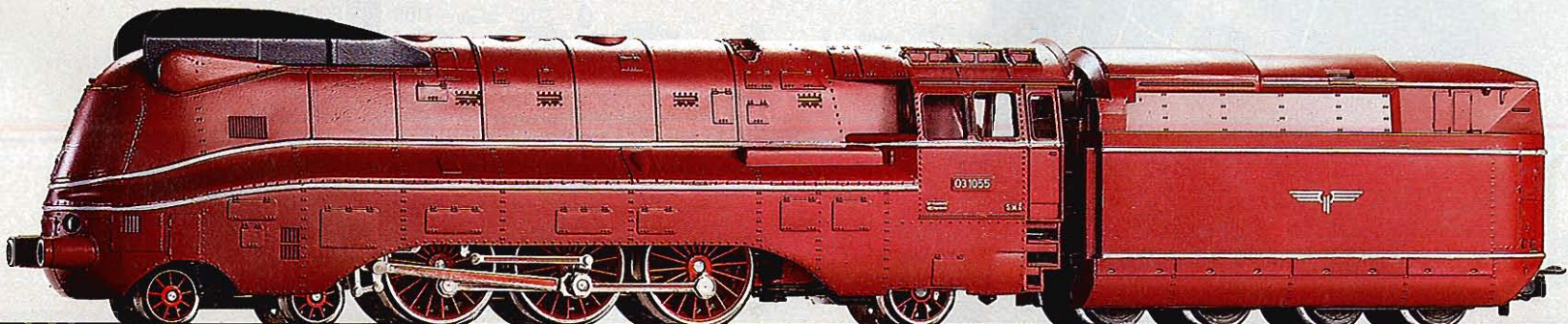
4
3003



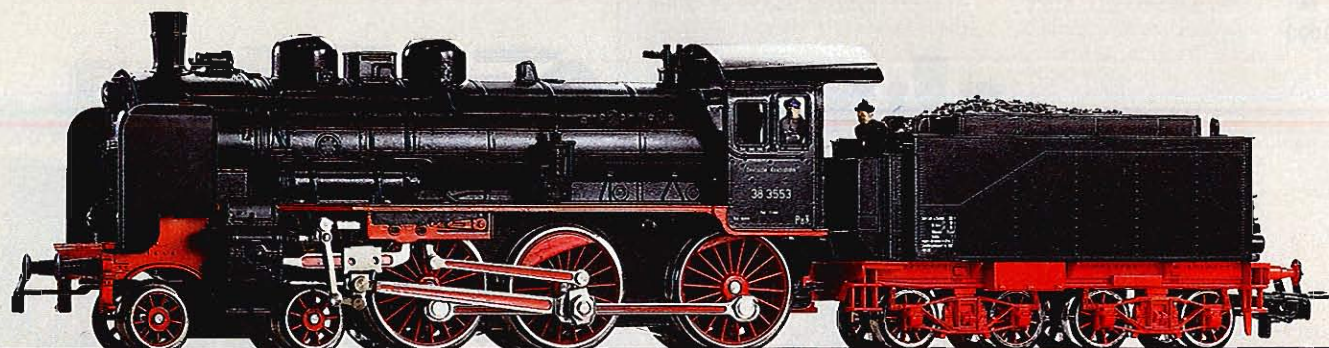
5
3095



6
3089



1
3099



1

3099 · Locomotive with Tender · Former German State Railways' class 38 · All drivers powered · 2 non-skid tires · Three working headlights · Metal body · Metal trucks · Engineer and fireman figures · Coupling hook at the front, RELEX-coupler (pages 40/138) at rear of tender · Length over buffers 21.8 cm (8-9/16")

⊙=7152 ⊞=7185 ♀=60015

2

3085 · Express Locomotive with Tender · German Federal Railways' class 003 · All drivers powered · 2 non-skid tires · Three working headlights · Metal boiler · Metal trucks · RELEX-couplers (pages 40/138) on tender · Length over buffers 27.7 cm (10-7/8") · Accepts smoke unit 7226 (page 57)

⊙=7152 ⊞=7164 ♀=60015

3

3092 · Express Locomotive with Tender · Royal Bavarian State Railways' class S 3/6, series i · Driving axles powered via connecting rods · 2 non-skid tires · Three working headlights · Metal body · Metal trucks · RELEX-coupler (pages 40/138) on tender · Length over buffers 24.9 cm (9-13/16") · Accepts smoke unit (Seuthe No. 20)

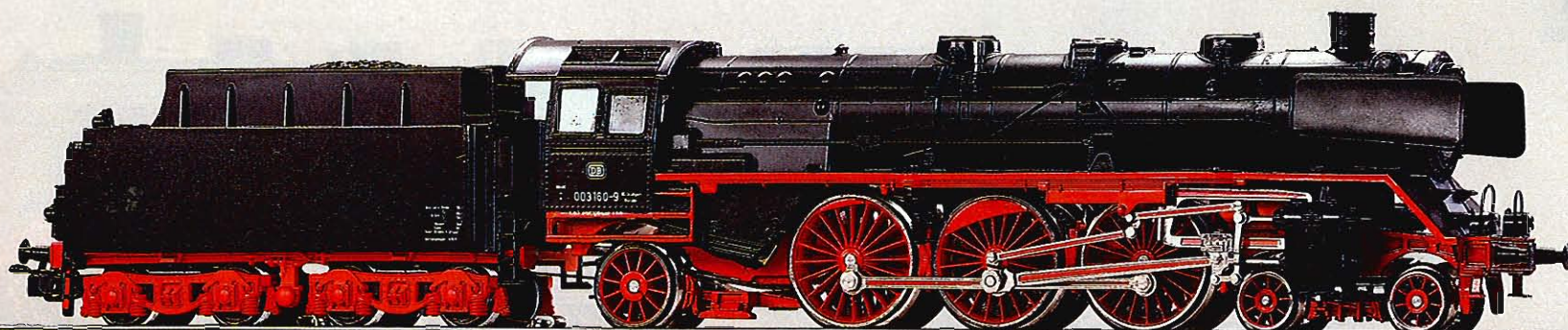
⊙=7152 ⊞=7185 ♀=60015

4

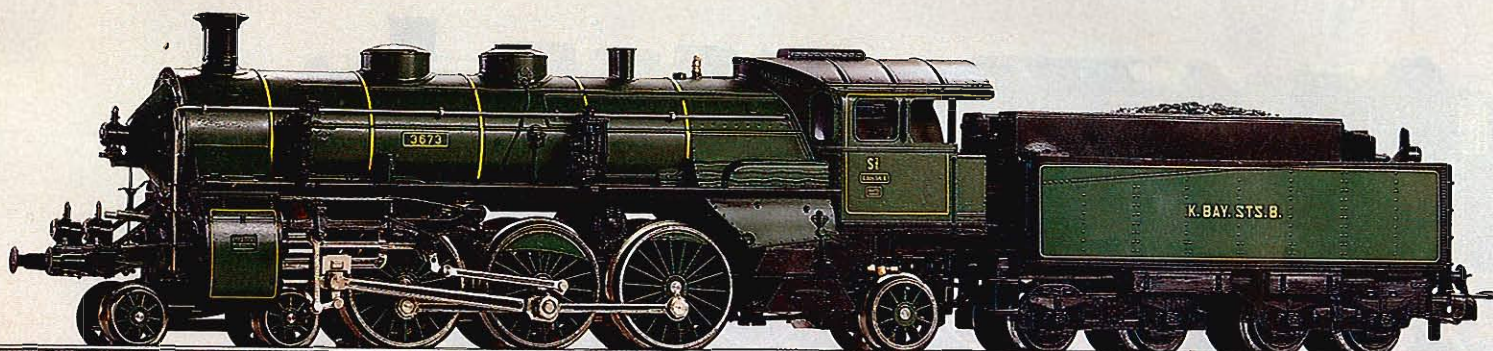
3093 · Express Locomotive with Tender · German Federal Railways' class 18⁴ (ex-Bavarian S 3/6) · Driving axles powered via connecting rods · 2 non-skid tires · Three working headlights · Metal body · Metal trucks · RELEX-coupler (pages 40/138) on tender · Length over buffers 24.9 cm (9-13/16") · Accepts smoke unit (Seuthe No. 20)

⊙=7152 ⊞=7185 ♀=60015

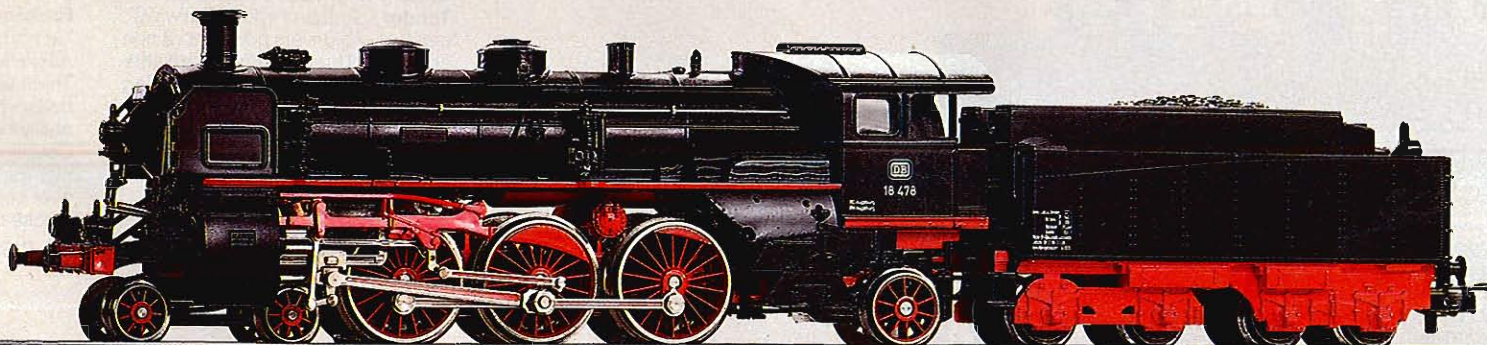
2
3085



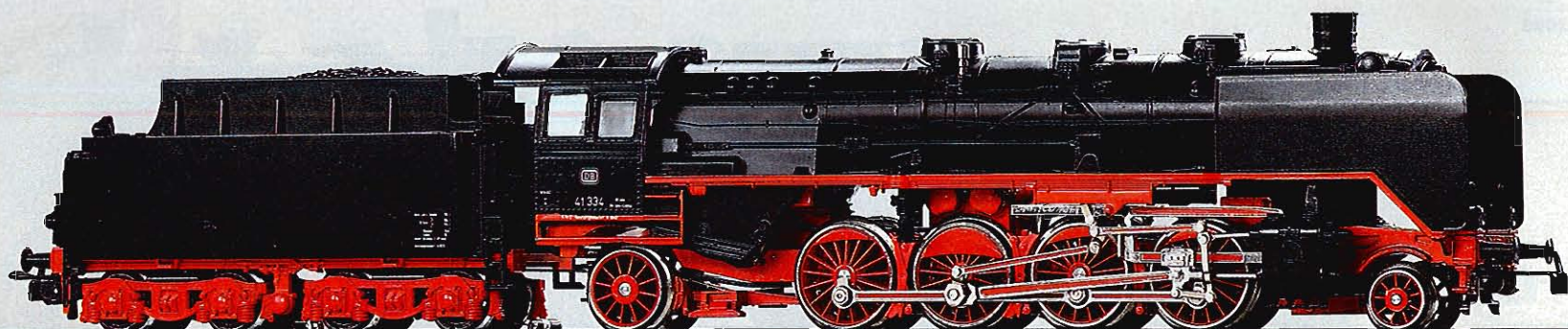
3
3092



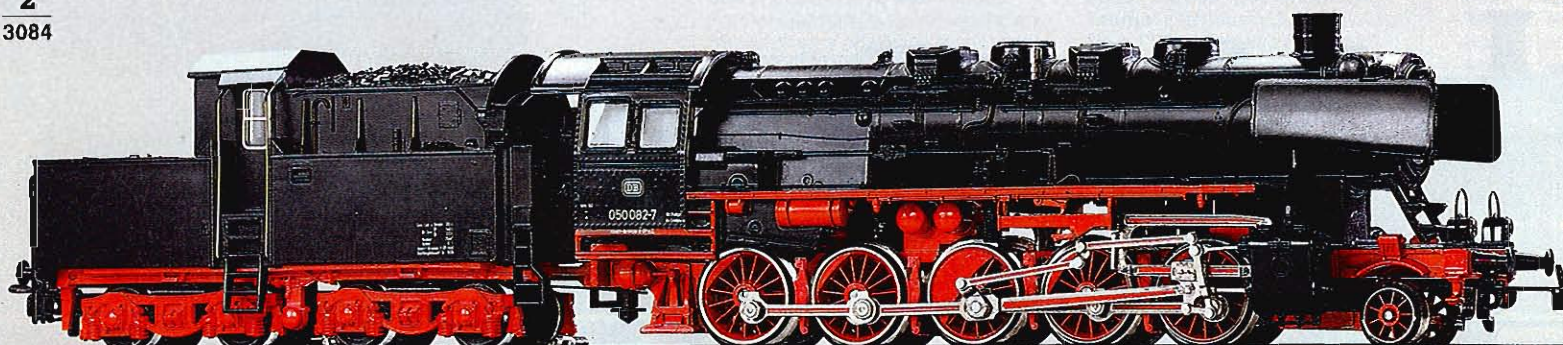
4
3093







1
3082



2
3084

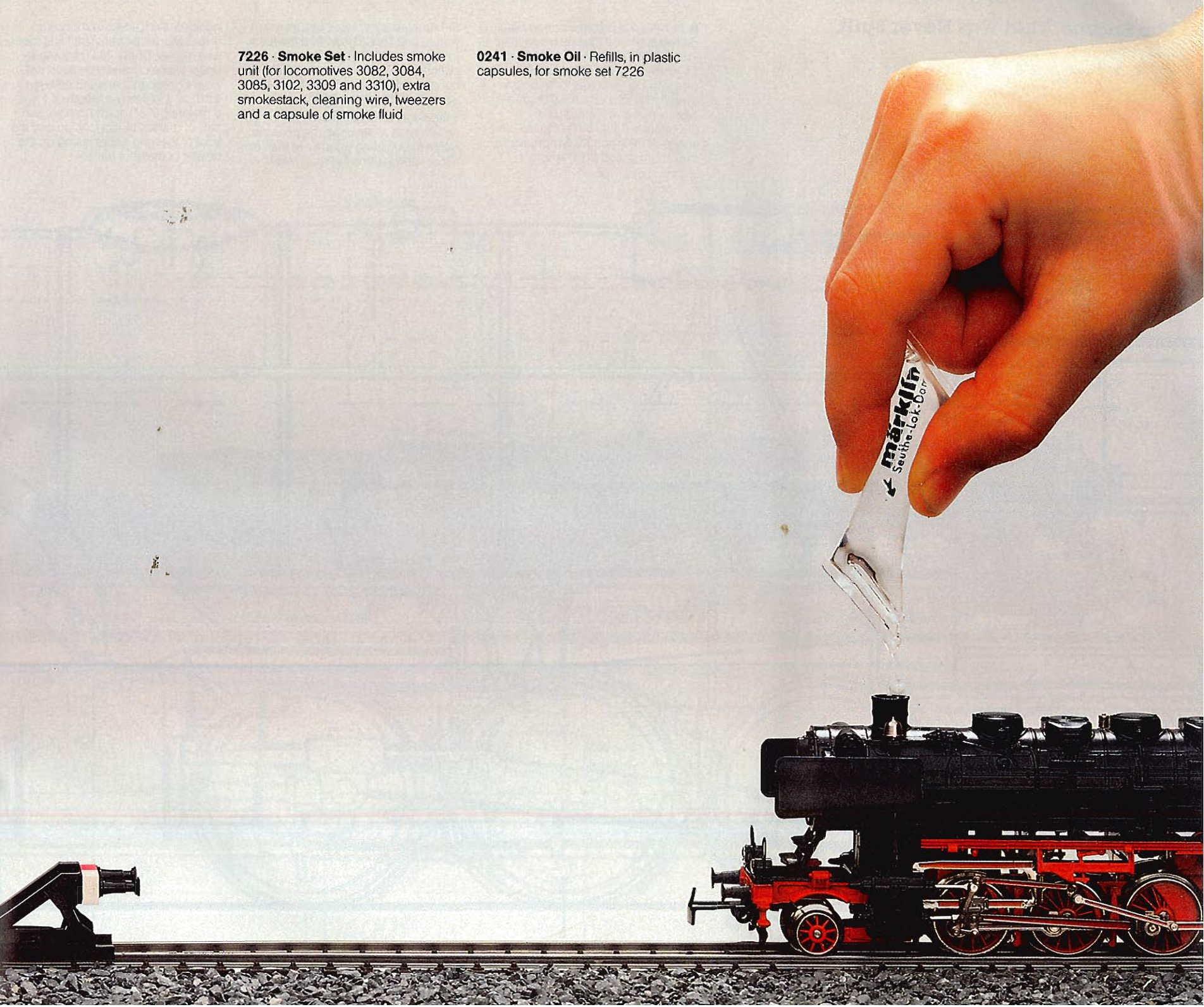


1
3082 · Freight Locomotive with Tender · German Federal Railways' class 41 · All drivers powered · 2 non-skid tires · Three working headlights · Metal boiler · Metal trucks · Coupling hook on front, RELEX-coupler (pages 40/138) on tender · Length over buffers 27.5 cm (10-13/16") · Accepts smoke unit 7226
 0 = 7153  = 7164  = 60015

2
3084 · Heavy Freight Locomotive, Brakeman's Cab on Tender · German Federal Railways' class 050 · All drivers powered · 4 non-skid tires · Three working headlights · Metal boiler · Metal trucks · Good cornering ability because drivers are coupled · Coupling hook on front, RELEX-coupler (pages 40/138) on tender · Length over buffers 26.1 cm (10-1/4") · Accepts smoke unit 7226
 0 = 7153  = 7164  = 60015

7226 · Smoke Set · Includes smoke unit (for locomotives 3082, 3084, 3085, 3102, 3309 and 3310), extra smokestack, cleaning wire, tweezers and a capsule of smoke fluid

0241 · Smoke Oil · Refills, in plastic capsules, for smoke set 7226



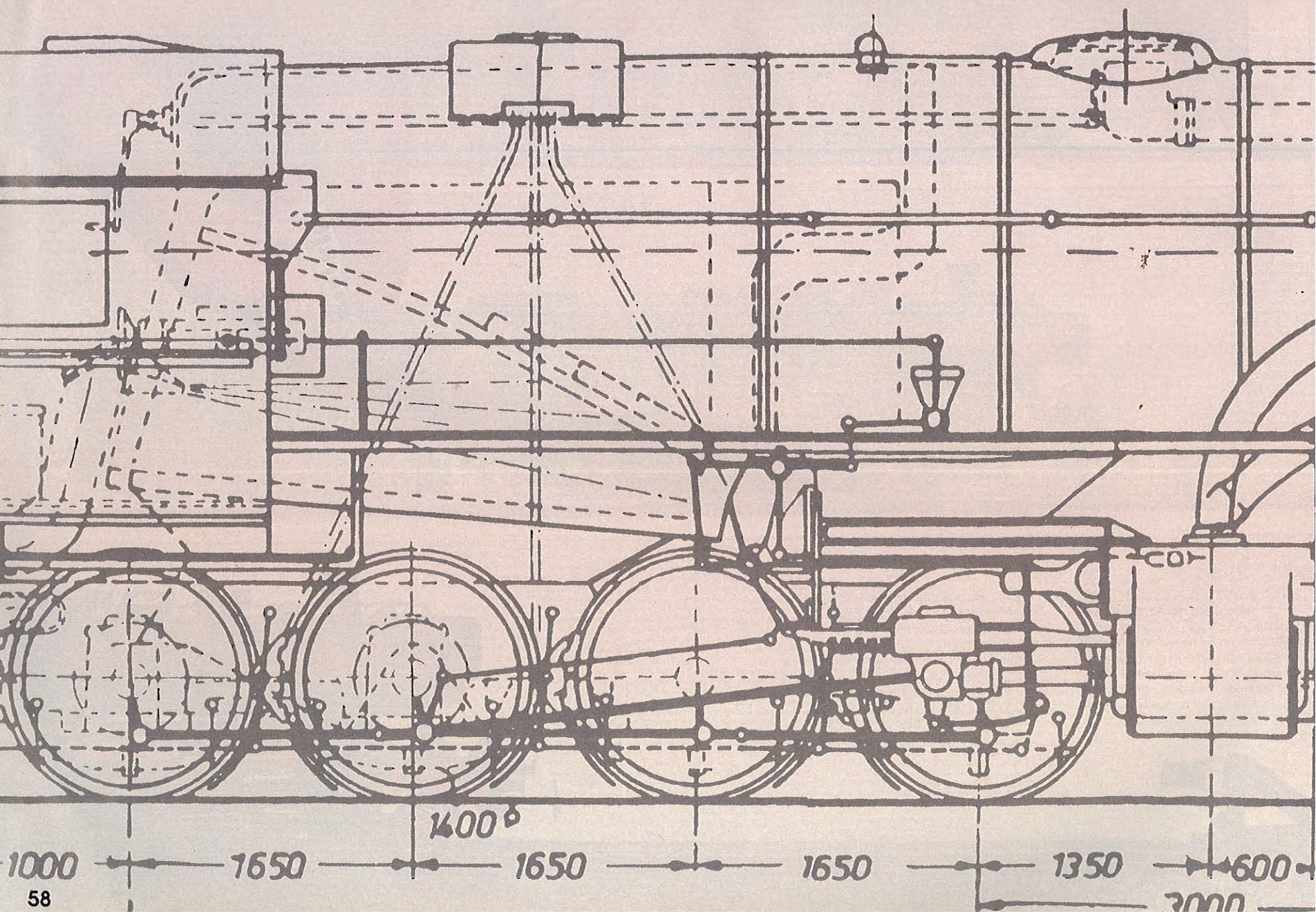
The Engine, That Was Never Built.

■ In 1943, the former German State Railways offered several locomotive foundries the commission to develop an extra-heavy freight locomotive. The proposed engine was to be able to drag, 1,700 tons up an 0.8 % grade, have a curve with a radius of 360 meters (1,181') while maintaining a speed of 20 kmph (12.5 mph) and a maximum speed of 80 kmph

(50 mph) in either direction. Its axle weight must be 20 tons and the locomotive must be able to negotiate switches 1:7 with 140 meter (459') curves and also be able to fit on a 23 meter (75' 6") turntable.

In addition, the locomotive had to be constructed as rationally as possible within the building guidelines then in effect. Along with other foundries'

designs, the Borsig Foundry submitted two proposals. Their first model was a (2-6) Dh4G 78.20 having a boiler with a circumference somewhere between 2 and 2.2 meters (6' 6" to 7' 3") and a length of 6 meters (19' 8"). It was to have two sets of drivers, Mallet fashion and the front of the long boiler rested on the bolster of the front drivers.





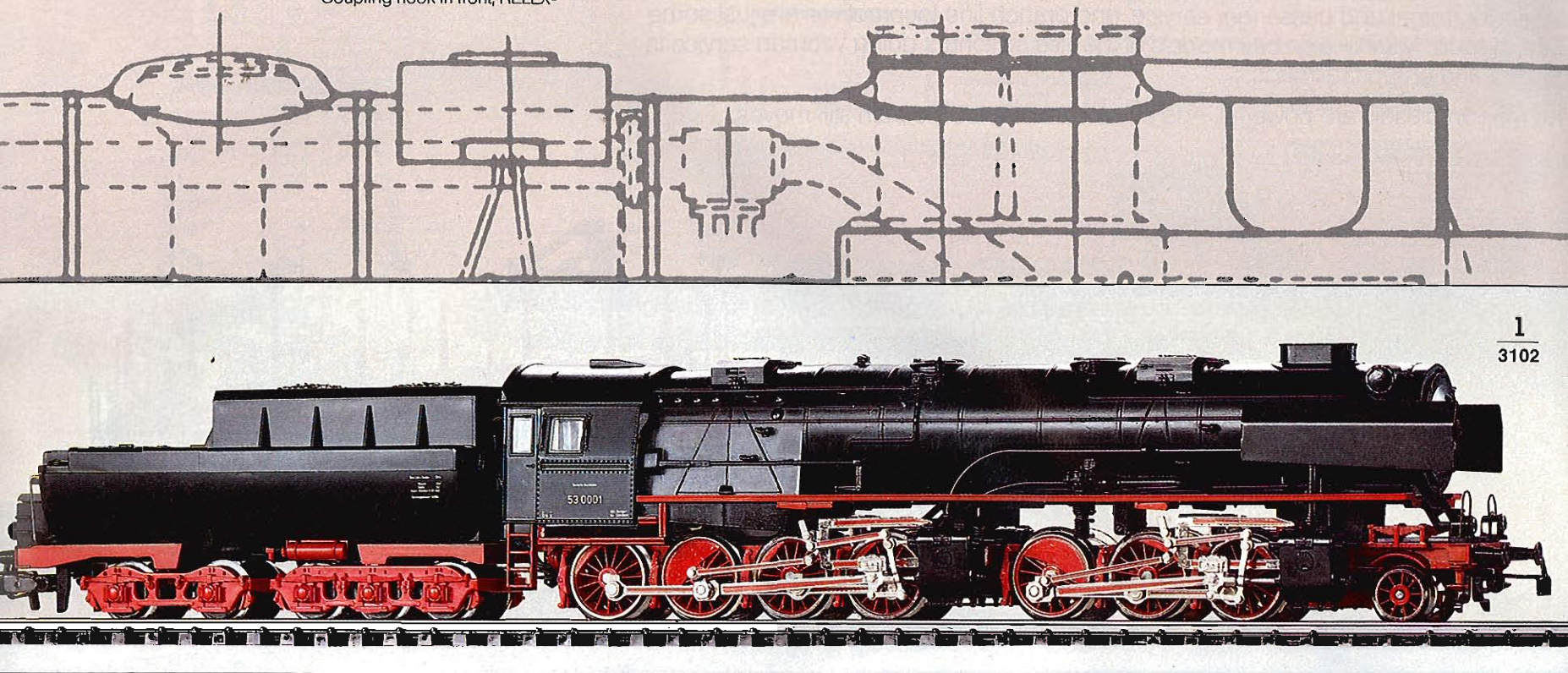
1

This locomotive would definitely have been a practical, simple yet powerful workhorse. In any event, this engine with its double Heusinger valve gears was never built. She is available, however, as a Märklin model.

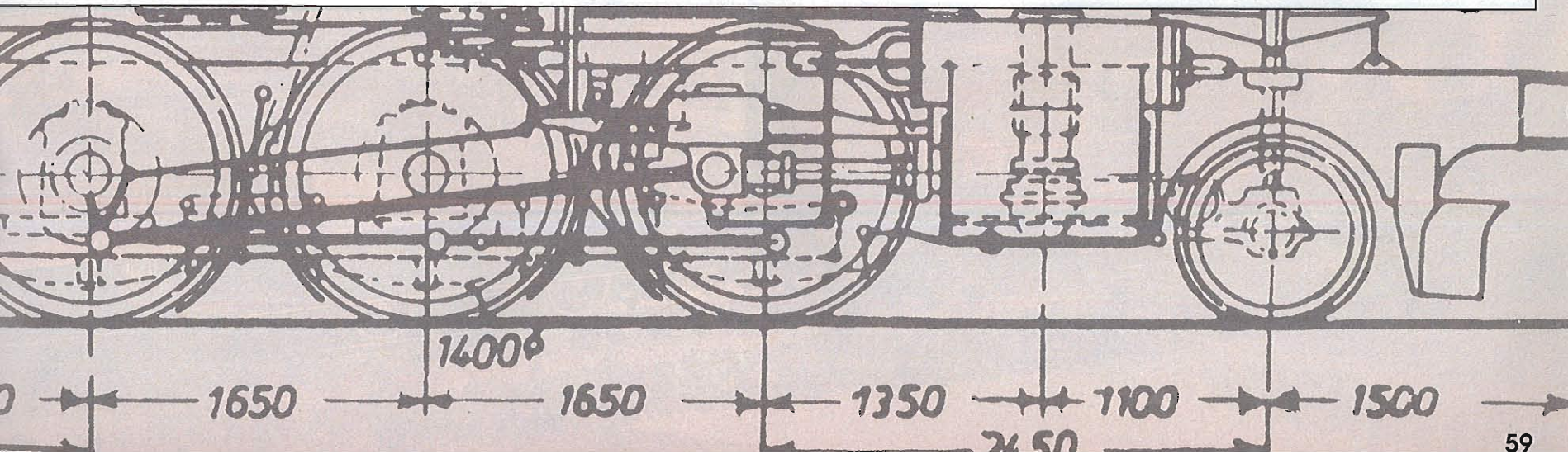
3102 · Heavy Freight Locomotive with Tender · Based on a Borsig design for the former German State Railways · Mallet type · 8 drivers powered · 4 non-skid tires · Two working headlights at front of locomotive and at rear of tender · Metal boiler · Metal trucks · Good cornering ability because drivers are coupled · Coupling hook in front, RELEX-

coupler (pages 40/138) on tender · Length over buffers 31.4 cm (1' 3/8") · Accepts two smoke units 7226 (page 57)

0 = 7153  = 7185  = 60015



1
3102

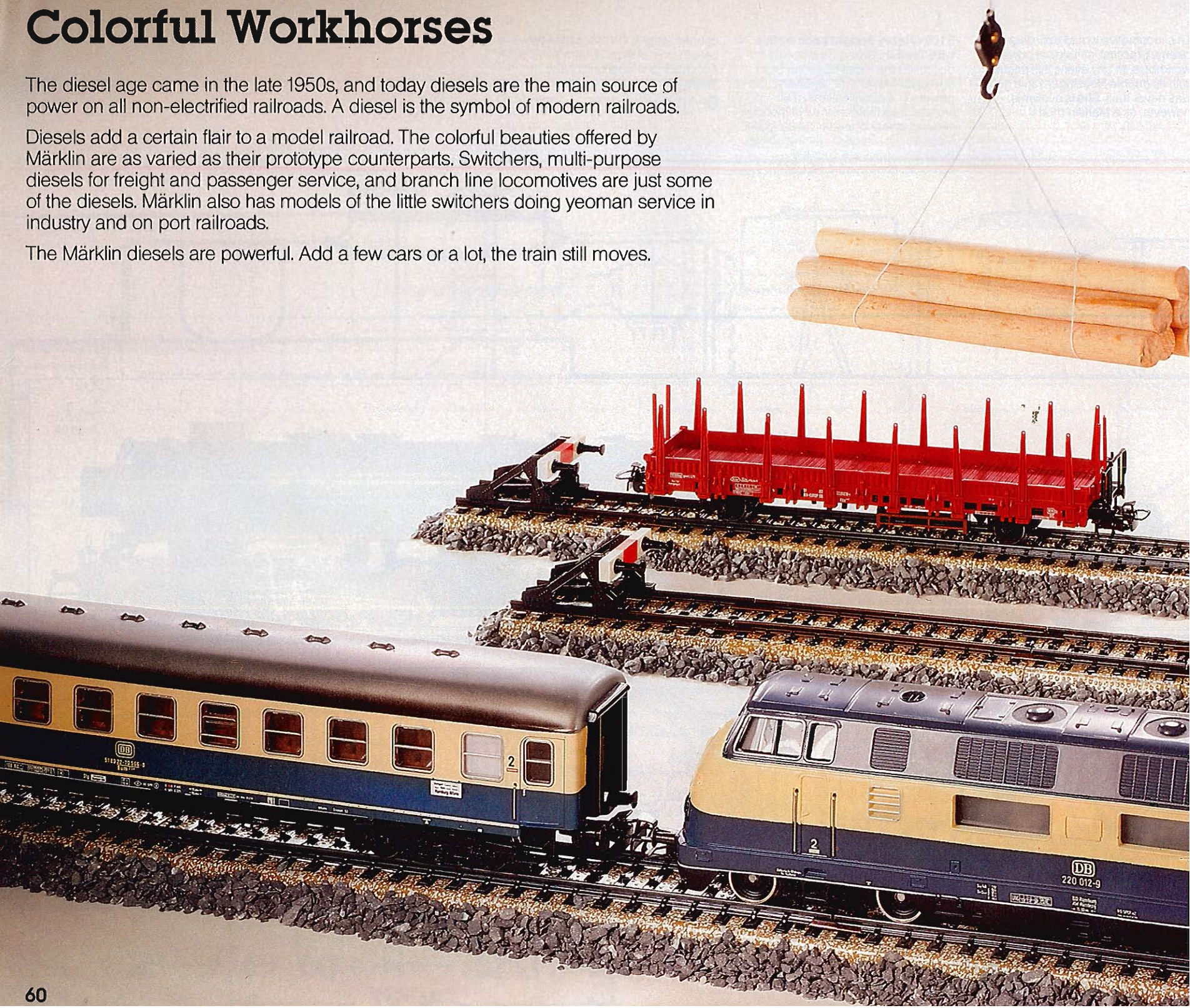


Colorful Workhorses

The diesel age came in the late 1950s, and today diesels are the main source of power on all non-electrified railroads. A diesel is the symbol of modern railroads.

Diesels add a certain flair to a model railroad. The colorful beauties offered by Märklin are as varied as their prototype counterparts. Switchers, multi-purpose diesels for freight and passenger service, and branch line locomotives are just some of the diesels. Märklin also has models of the little switchers doing yeoman service in industry and on port railroads.

The Märklin diesels are powerful. Add a few cars or a lot, the train still moves.





LANDW. GENOSSEN
Bad. St. Leonhard





1
3065



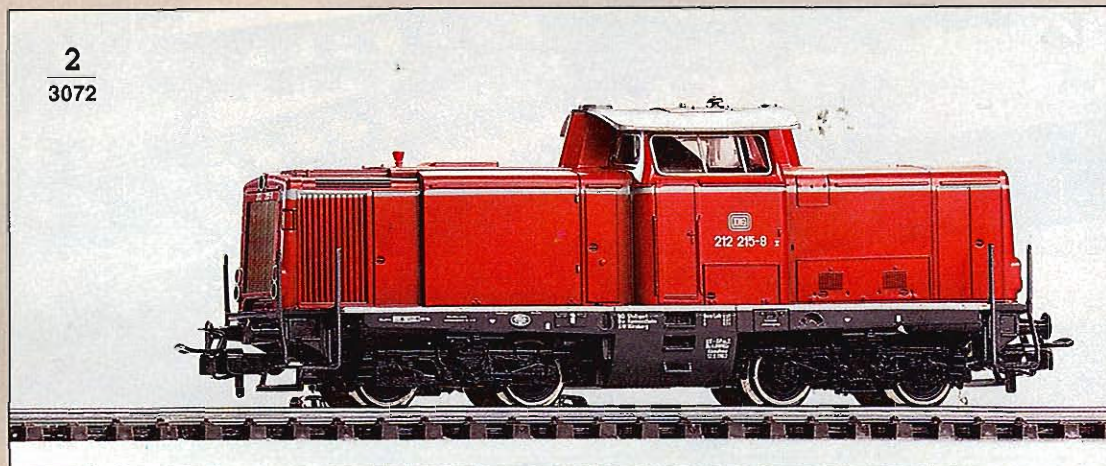
1
3065 · Diesel Switcher with TELEX-Couplers · German Federal Railways' class 260 · 3 axles powered · 2 non-skid tires · Three working headlights at each end · Metal trucks · TELEX-couplers (pages 40/138) at each end · Length over buffers 12 cm (4-3/4")

0 = 7153 1 = 7185 2 = 60010

2
3072 · Multi-Purpose Diesel · German Federal Railways' class 212 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Indented radiators · Metal trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 14.1 cm (5-9/16")

0 = 7154 1 = 7164 2 = 60010

2
3072





3
3021



3

3021 · Diesel Express Locomotive · German Federal Railways' class 220 · 2 axes powered · 4 non-skid tires · Three working headlights at each end · Metal body · Metal trucks · Coupling hooks with pre-uncoupler at each end · Length over buffers 21 cm (8-1/4")

①=7154 ②=7183 ③=60010

4
3075




4

3075 · Multi-Purpose Road Diesel · German Federal Railways' class 216 · 2 axes powered · 4 non-skid tires · Three working headlights at each end · Metal trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 18.2 cm (7-3/16")

①=7154 ②=7164 ③=60015


1

3141 · Diesel Switcher · German Federal Railways' class 260 · 3 axles powered · 2 non-skid tires · Three working headlights at each end · Metal trucks · Coupling hooks with pre-uncoupler at each end · Length over buffers 12 cm (4-3/4")

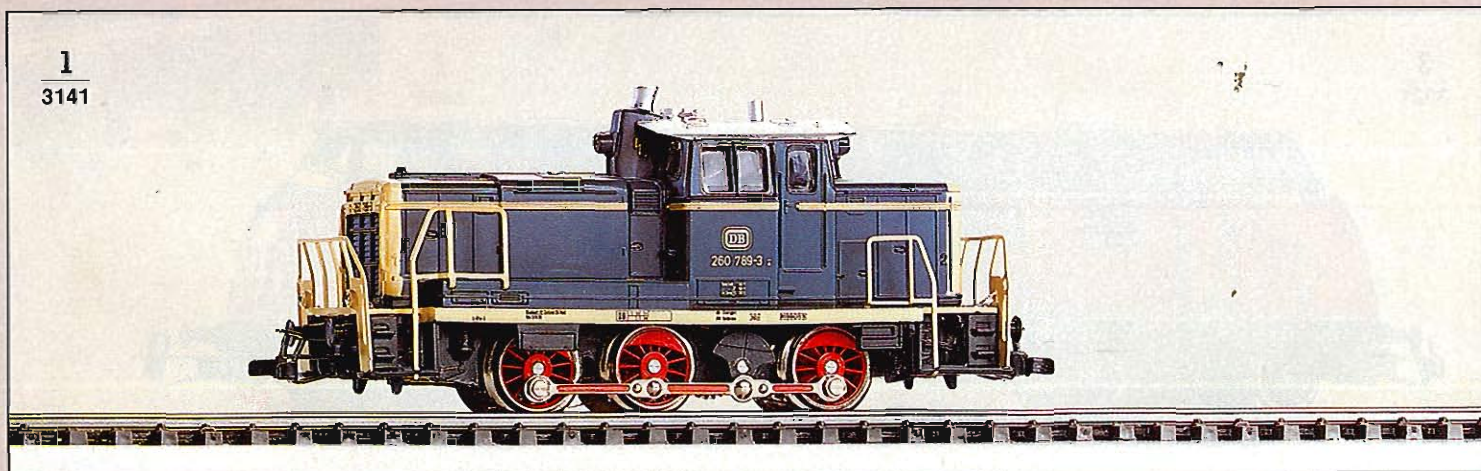
⊙ = 7153  = 7185 ⊕ = 60010

2

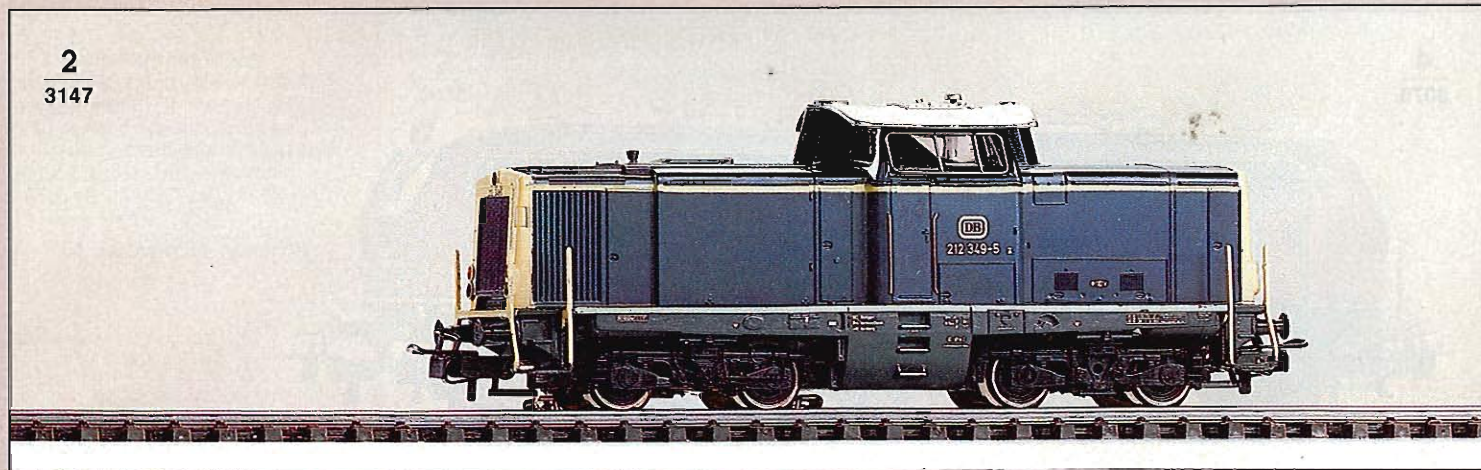
3147 · Multi-Purpose Road Switcher · German Federal Railways' class 212 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Indented radiators · Metal trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 14.1 cm (5-5/16")

⊙ = 7154  = 7164 ⊕ = 60010

1
3141





2
3147



3



3081 · Diesel Express Locomotive · German Federal Railways' class 220 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Metal body · Metal trucks · Coupling hooks with pre-uncoupler at each end · Length over buffers 21 cm (8-1/4")

0 = 7154  = 7183  = 60010

■ The sleek V 200 was developed in 1953 as the prototype of an efficient two-motor diesel. Since then the German Federal Railways has procured additional series for heavy freight and long-distance passenger runs. The newer series look quite different externally. Output was raised from 1600 to 2000 kW and top speed is over 140 kmph (87 mph). Originally, all 153 locomotives in the 220 and 221 series were garbed in red and gray. However, today a large number feature the new ocean blue and beige livery.

4

3074 · Multi-Purpose Road Diesel · German Federal Railways' class 216 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Metal trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 18.2 cm (7-3/16")

0 = 7154  = 7164  = 60015

3 NEW

3081

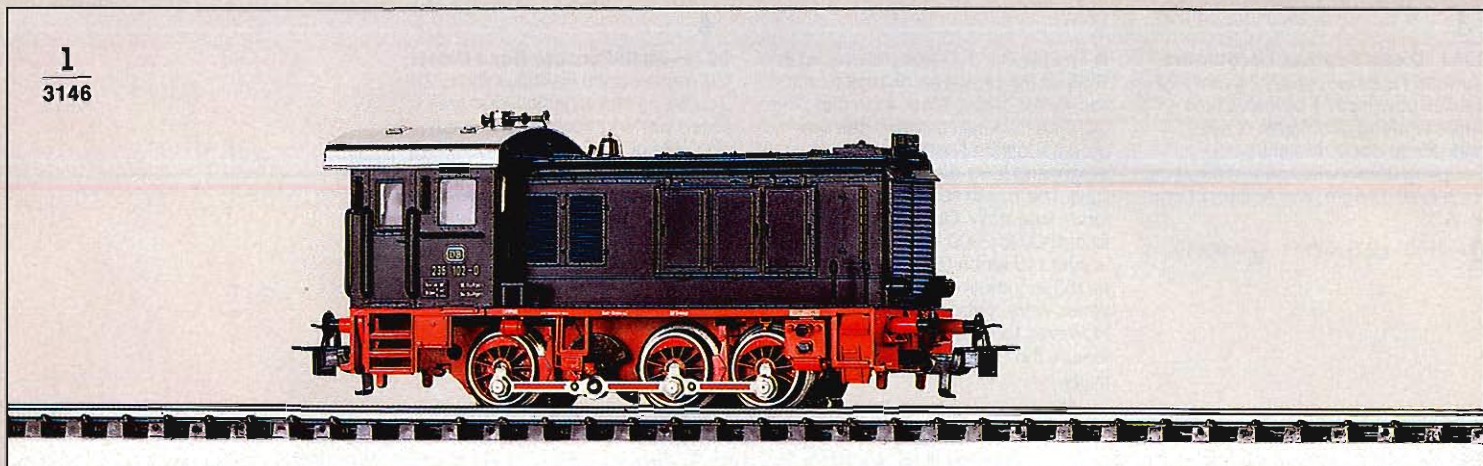


4

3074



1
3146



2



3346 · Twin-Unit Diesel · Two German Federal Railways' class 236 · Engines permanently coupled · 6 axles powered · 4 non-skid tires · 2 motors · Three working headlights at each end · Metal trucks · RELEX-couplers (pages 40/138) at each end · Electronic direction control switch · Length over buffers 21.4 cm (8-1/16")

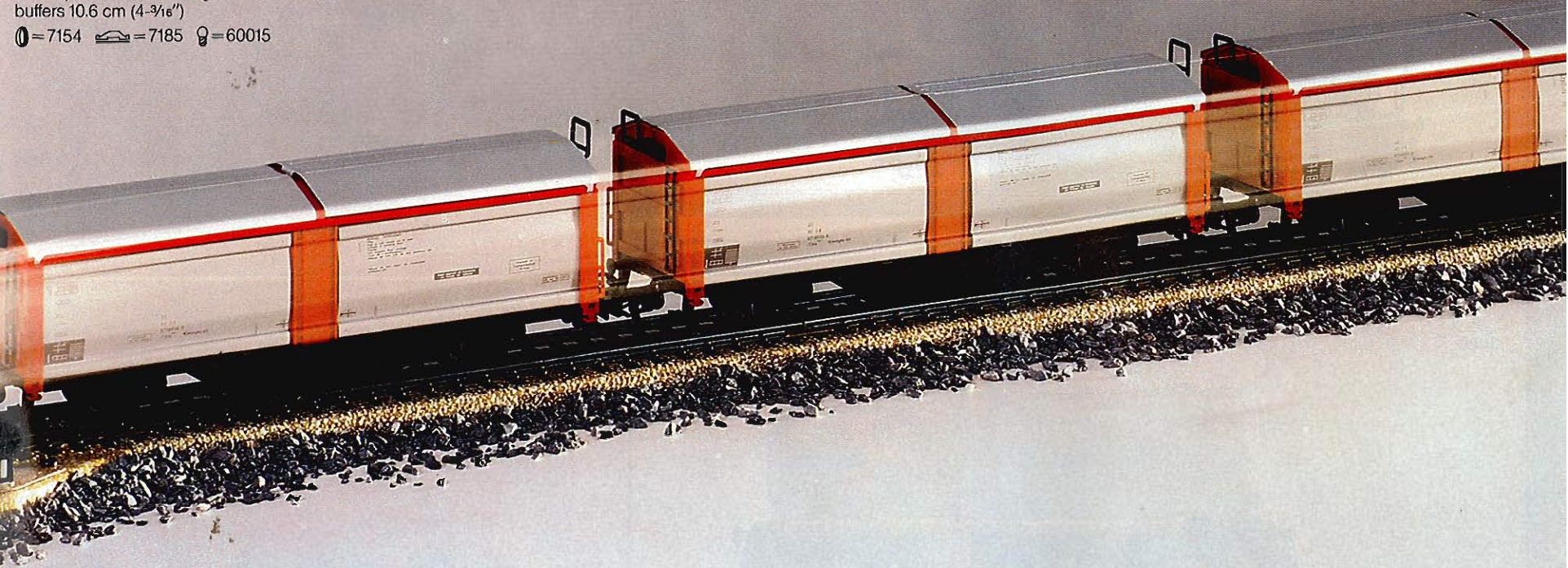
■ A single 236 class engines often did not have enough power to keep a train on schedule. Thus, they were often double-headed. In fact, they were manufactured with this concept in mind allowing the engineer in one cab to control both engines.

0=7154 1=7185 2=60019

1

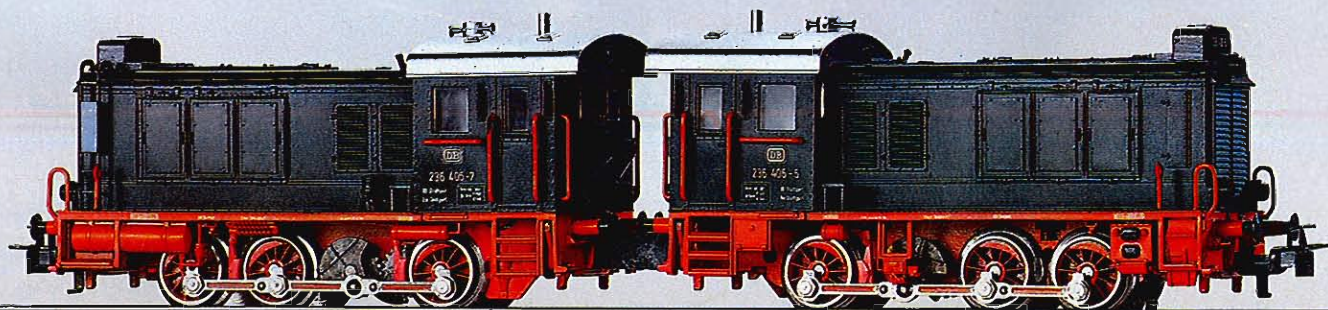
3146 · Diesel Locomotive · German Federal Railways' class 236 · 3 axles powered · 2 non-skid tires · Three working headlights at each end · Metal trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 10.6 cm (4-3/16")

0 = 7154  = 7185  = 60015



2 NEW

3346



1
3078



1

3078 · Industrial Switcher · Type DHG 500 · 3 axles powered · 2 non-skid tires · Three working headlights at each end · Metal trucks · Coupling hooks at each end · Length over buffers 11.2 cm (4-3/8")

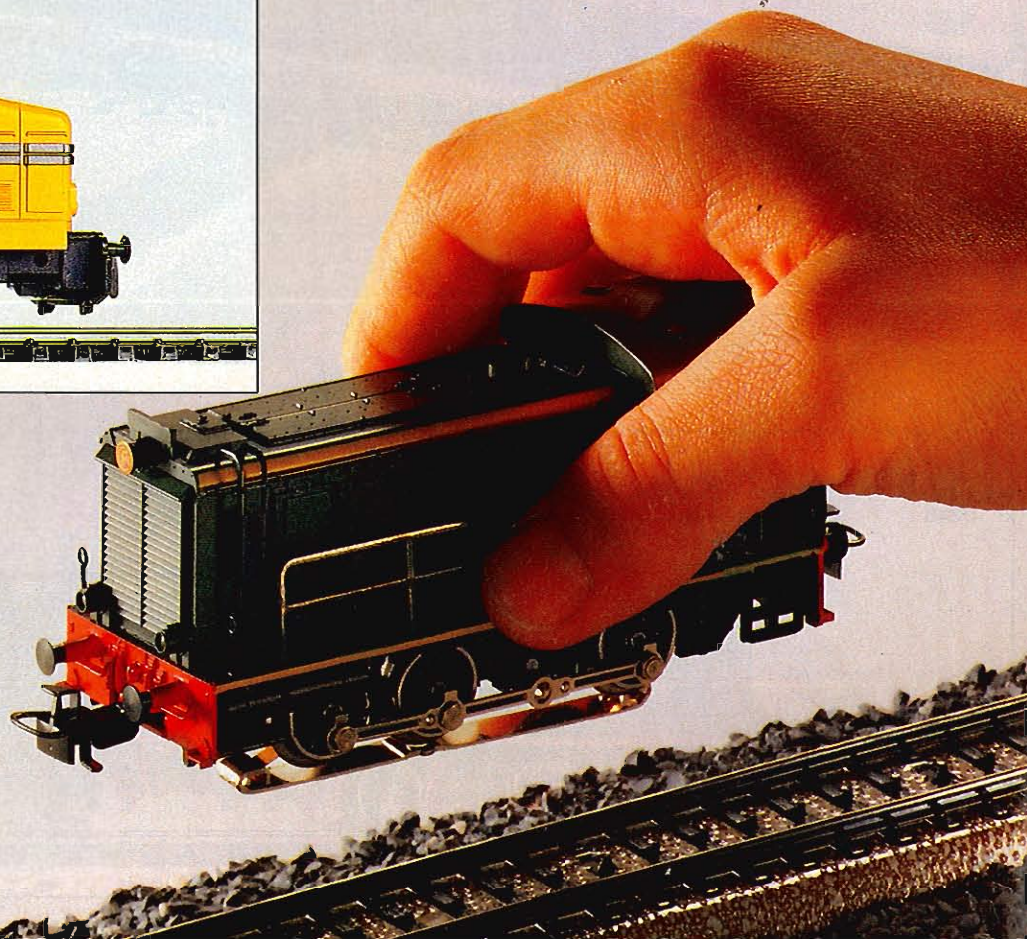
① = 7154 ② = 7185 ③ = 60015

2

3080 · Industrial Switcher · 3 axles powered · 2 non-skid tires · Metal trucks · Coupling hooks at each end · Length over buffers 11.2 cm (4-3/8")

① = 7154 ② = 7185

2
3080



3 Sweden

3144 · Diesel Locomotive · Lettered for TGOJ, a Swedish private railway · 3 axles powered · 2 non-skid tires · Three working headlights at each end · Metal trucks · Coupling hooks at each end · Length over buffers 11.2 cm (4-3/8")

0=7154 7=7185 9=60015

4 France

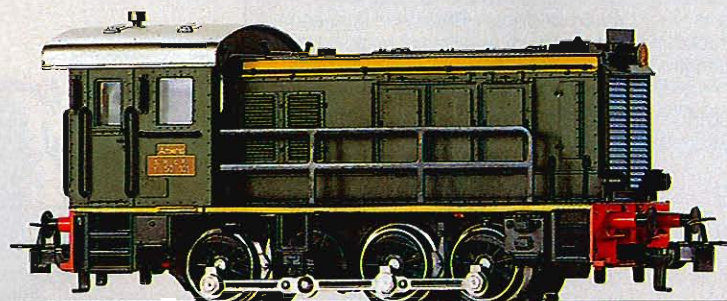
3145 · Diesel Locomotive · French State Railways' (SNCF) class Y 50 100 · 3 axles powered · 2 non-skid tires · Two working headlights at each end · Metal trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 10.6 cm (4-1/8")

0=7154 7=7185 9=60015

3
3144



4
3145



1
3067



1 Denmark

3067 · Multi-Purpose Road Diesel · Danish State Railroads' (DSB) class My 1100 · 3 axles powered · 4 non-skid tires · Three working headlights at each end · Metal body · Metal trucks · Coupling hooks at each end · Length over buffers 20.5 cm (8-1/16")

⊙=7154 ⊞=7164 ♀=60015

2 Belgium

3066 · Multi-Purpose Road Diesel · Belgian State Railways' (NMBS/SNCB) class 204 · 3 axles powered · 4 non-skid tires · Three working headlights at each end · Metal body · Metal trucks · Coupling hooks at each end · Length over buffers 20.5 cm (8-1/16")

⊙=7154 ⊞=7164 ♀=60015

3 Belgium

3149 · Diesel Switcher · Belgian State Railways' (NMBS/SNCB) class 80 · 3 axles powered · 2 non-skid tires · Two working headlights at each end · Metal trucks · Coupling hooks with pre-uncoupler at each end · Length over buffers 12 cm (4-3/4")

⊙=7153 ⊞=7185 ♀=60010

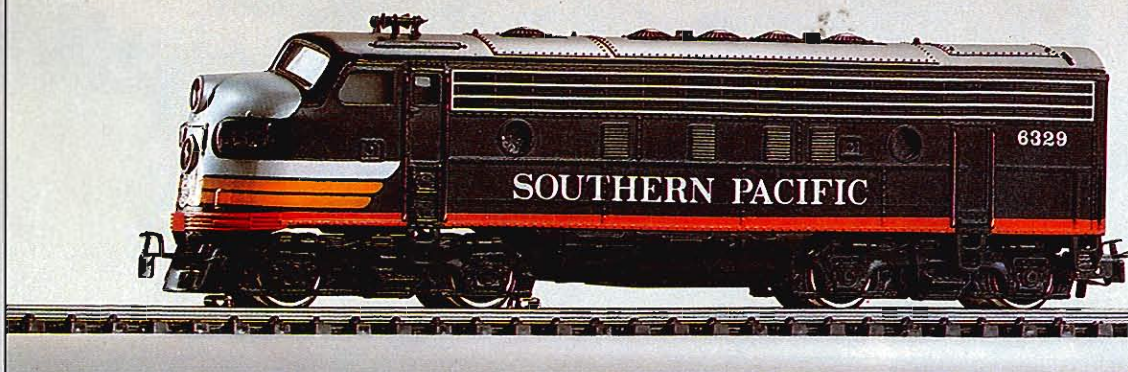
4

3060



6 NEW

3129



2
3066



3
3149



5
4060



4 USA

3060 · Road Diesel · General Motors EMD F 7 lettered for Atchison, Topeka and Santa Fe · 2 axles powered · 4 non-skid tires · Two working headlights · Metal body · Metal trucks · Coupling hook with pre-uncoupler at cab end · RELEX-coupler (pages 40/138) at other end · Length 17.5 cm (6-7/8")

0 = 7154 ☞ = 7185 ♀ = 60015

5 USA

4060 · Dummy Road Diesel · Same as 3060 but unpowered · Two working headlights · Metal body · Coupling hooks with pre-uncoupler at cab end · Length 17.5 cm (6-7/8")

☞ = 7185 ♀ = 60015

6 USA

3129 · Road Diesel · General Motors EMD F 7 lettered for Southern Pacific · 2 axles powered · 4 non-skid tires · Two working headlights at each end · Metal body · Metal trucks · Coupling hook with pre-uncoupler at cab end · RELEX-coupler (pages 40/138) at other end · Length 17.5 cm (6-7/8")

0 = 7154 ☞ = 7185 ♀ = 60015

7 USA

4129 · Dummy Road Diesel · Same as 3129 but unpowered · Two working headlights · Metal body · Coupling hook with pre-uncoupler at cab end · Length 17.5 cm (6-7/8")

☞ = 7185 ♀ = 60015

■ Some 4000 EMD F 7 diesels were built and they saw service on almost every American railroad. These modern "covered wagons" had an output of over 1100 kW and a top speed of 160 kmph (100 mph). The color scheme shown here on the Southern Pacific diesels is called the "Black Widow" by American railroaders and railfans.

7 NEW
4129





1
3016



2
4018






3016 · Railbus · German Federal Railways' class 795 · 1 powered axle · 2 non-skid tires · Three working headlights at each end · Interior lighting · Metal trucks · Special short couplers at each end · Length over buffers 14.7 cm (5-3/4")

① = 7153  = 7164  = 60010




4018 · Railbus Trailer · German Federal Railways' class 995 · Red tail-lights at each end · Interior lighting · Special short couplers, mates only with railbuses · Length over buffers 12 cm (4-3/4")

 = 7175  = 60010

3028 · Self-propelled Coach · German Federal Railways' class 515, accumulator battery powered coach · 2 axles powered · 4 non-skid tires · Three white headlights and two red tail-lights at each end, illuminated according to direction · Interior details · Interior lighting · Metal trucks · Coupling hooks at each end · Length over buffers 24 cm (9-1/2")

① = 7154  = 7164  = 60001 r
 = 60015 w

4028 · Control Car · Not powered · For use with 3028 · German Federal Railways' class 815 · When coupled to 3028, three white headlights or two red tail-lights illuminated according to direction · Interior details · Interior lighting · Dummy couplers, eye at one end, hook at the other · Length over buffers 24 cm (9-1/2")

 = 7164  = 60001 r
 = 60015 w

3
3028





4
4028



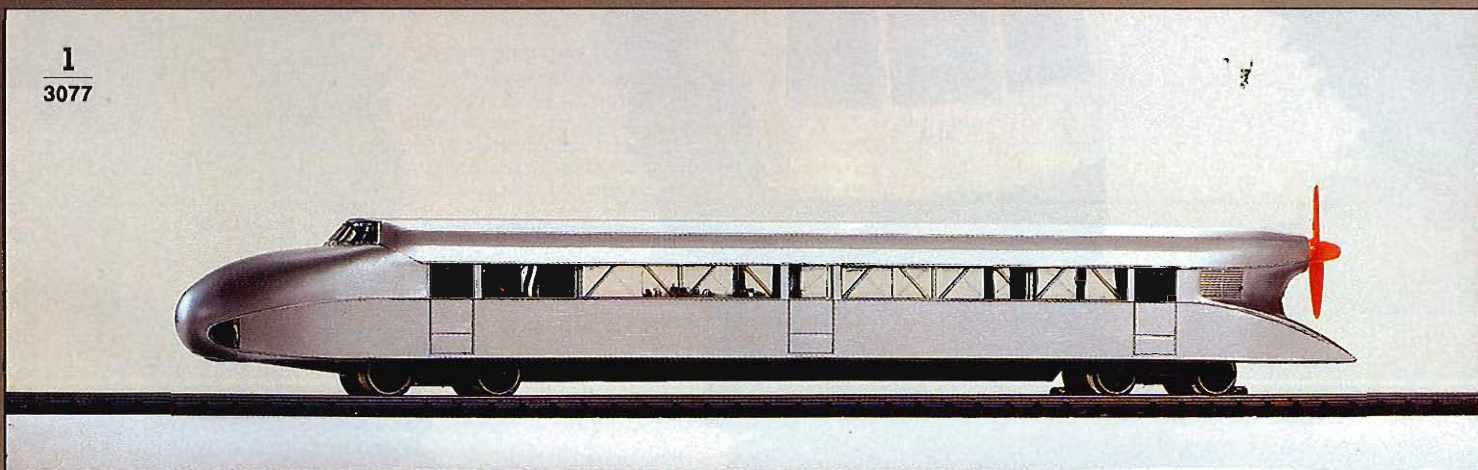
1

3077 - Rail Zeppelin - Based on Kruckenberg's system - 2 axles powered - 4 non-skid tires - Realistic operation: as track current is slowly increased from 4 V, the propeller is activated by small motor - as track current increases further, the zeppelin begins to roll - Two working headlights at front - Streamlined shape - Metal trucks - Length 28.8 cm (11-3/8")

⌀ = 7154 ⚙ = 7164 ⚙ = 60015

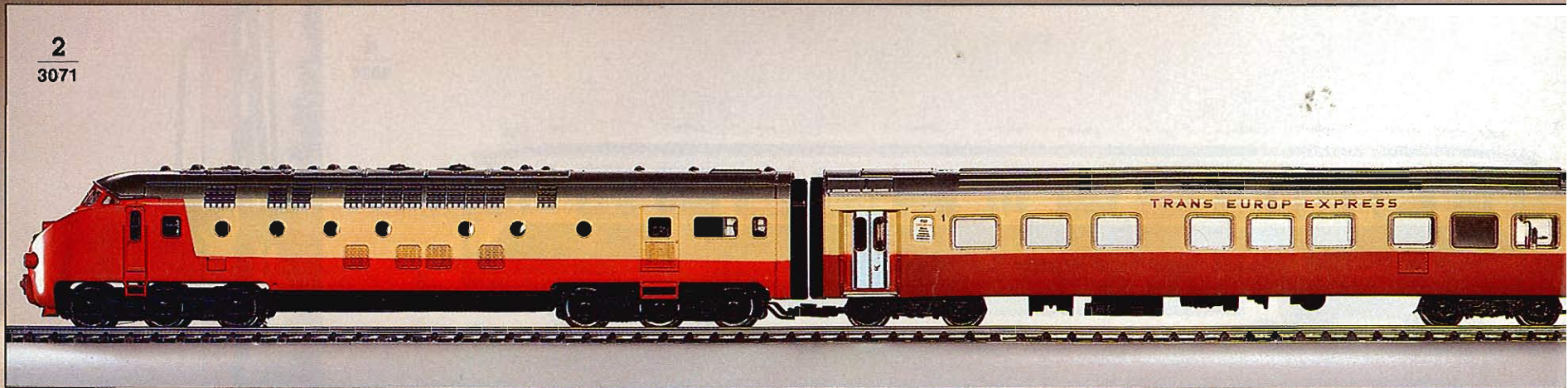
1

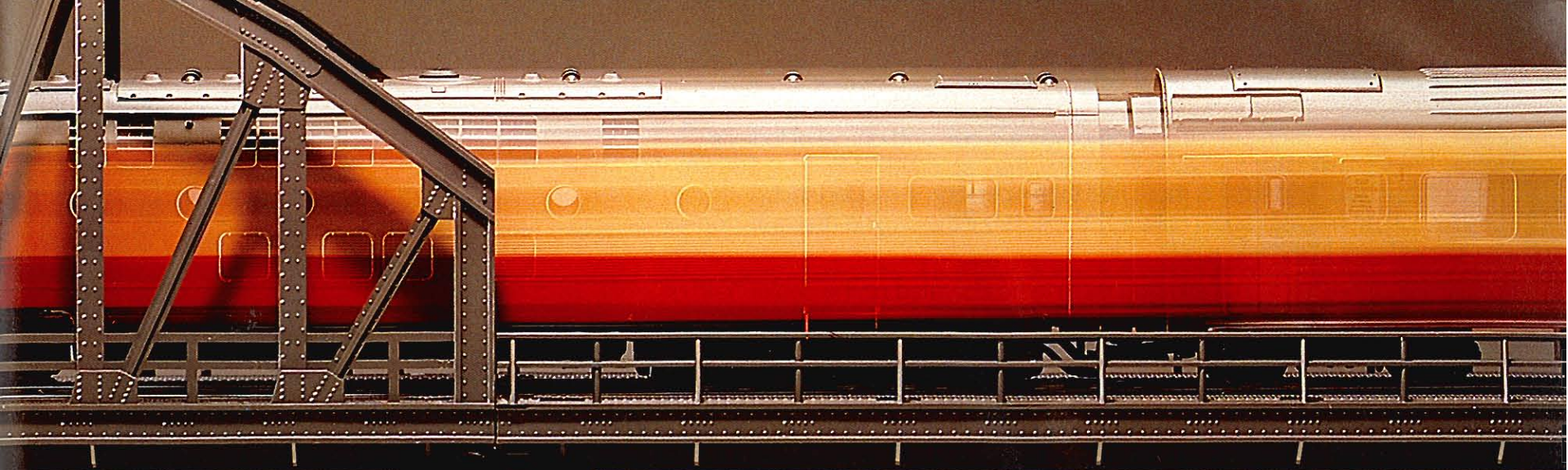
3077



2

3071





2

3071 · TEE Articulated Train · Dutch-Swiss TRANS-EUROP-EXPRESS train · 3 cars

Locomotive: 3 axles powered · 4 non-skid tires · Metal trucks

First-Class Diner-Coach and Control Car having large first-class compartment

Train has special couplers narrowing the gaps between cars · Gaps have

special diaphragms · Three white headlights and two red tail-lights at each end of train, illuminated according to direction · Sliders at each end, current obtained from lead slider · Length of 3-car train 70 cm (2' 3-5/8")

⊖ = 7154 ⊖ = 7164 ⊖ = 60001 r

⊖ = 7175 ⊖ = 60015 w

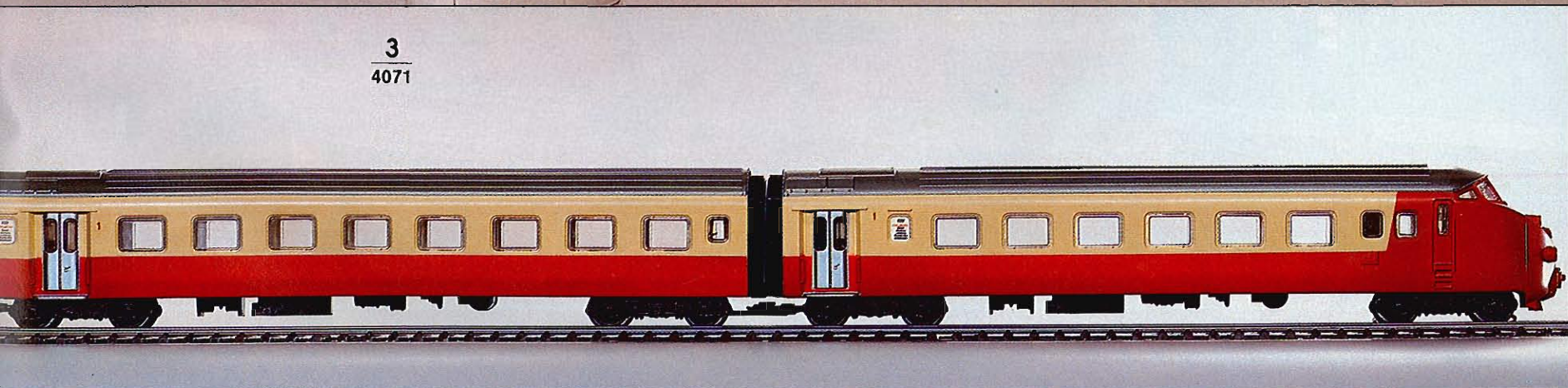
3

4071 · TEE Compartment Car · 1st class · Flexible diaphragms at each end · Special TEE couplers · Length 23.3 cm (9-3/16")

The TEE train illustrated here consists of one 3-unit 3071 and one 4071, based on prototype practice. Length of 4 car train is 93.3 cm (3' 3/4").

3

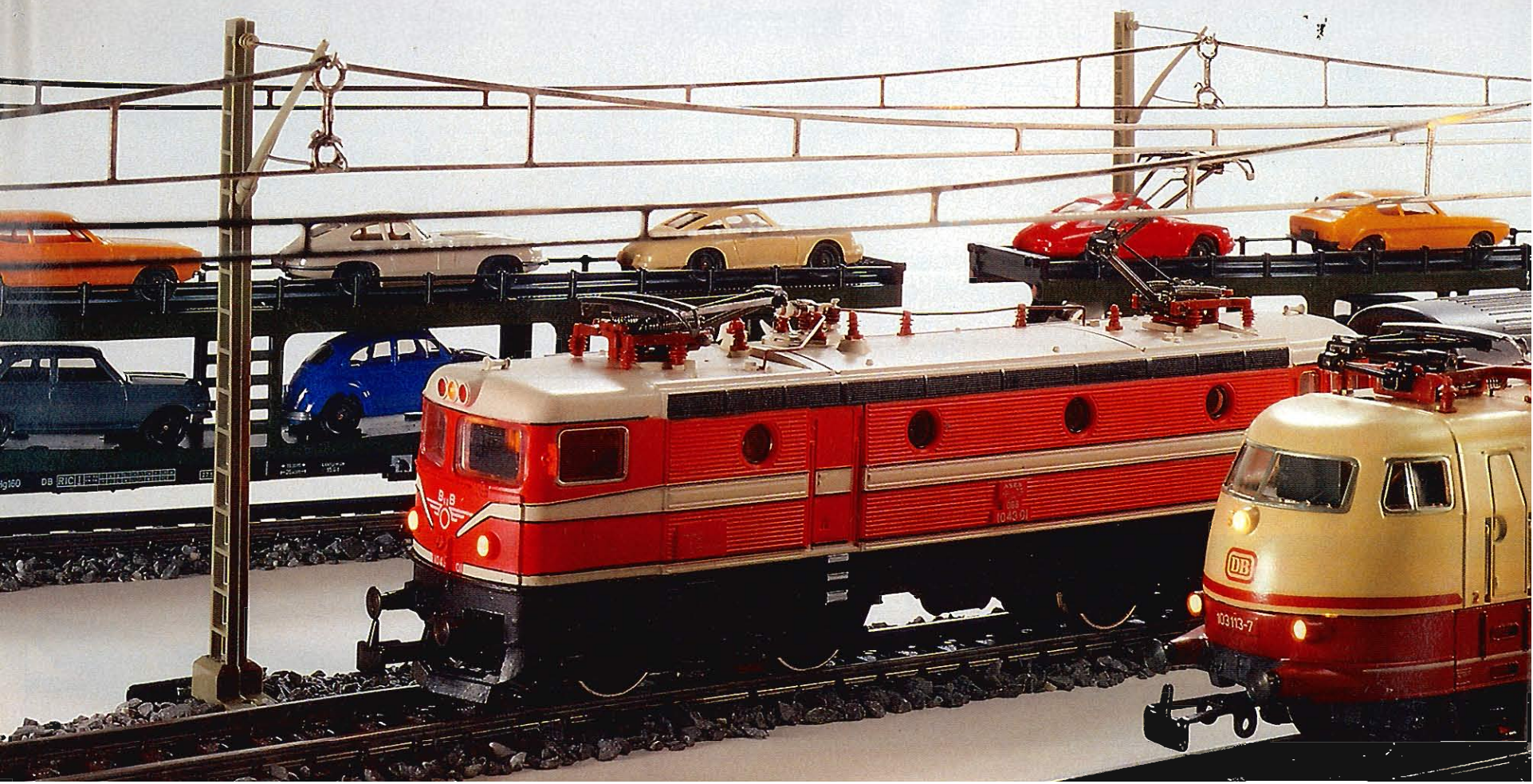
4071



The Fastest Trains

The silent, sleek and strong electric locomotives are part and parcel of today's railroads. They are also the fastest. In Germany, they zip crack limiteds at 200 km per hour (125 mph). And what is more real than operating a model electric locomotive on an electric model railroad? Especially if the engine draws its current from the overhead (catenary) wires!

Märklin electrics have a switch allowing them to be operated off the center "rail" or off the overhead wires.





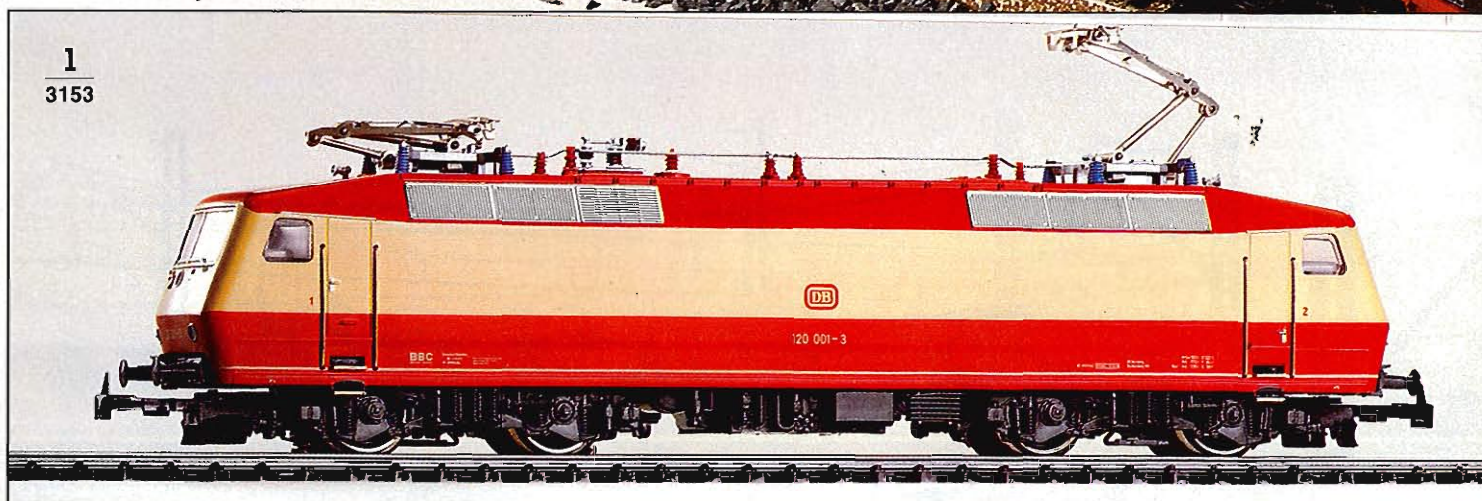


1

3153 · Multi-Purpose Electric ·
 German Federal Railways' class 120 ·
 2 axles powered · 4 non-skid tires ·
 Three working headlights at each
 end · Metal trucks · Coupling hooks at
 each end · Length over buffers
 22.1 cm (8-3/4")

① = 7153 ② = 7164 ③ = 60015

1
3153

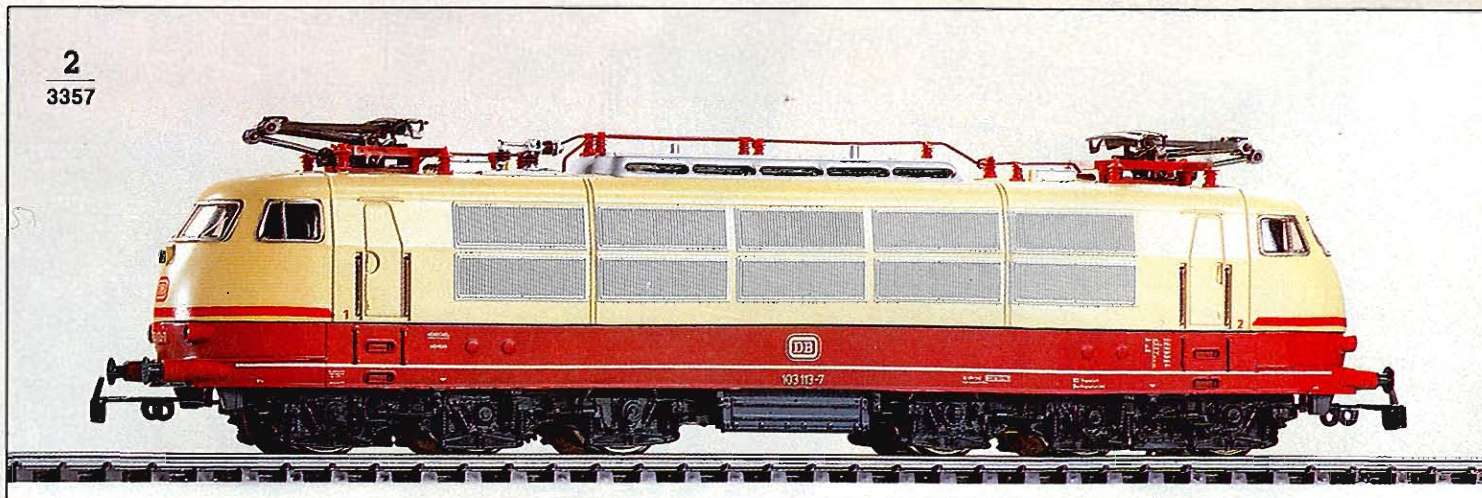


2

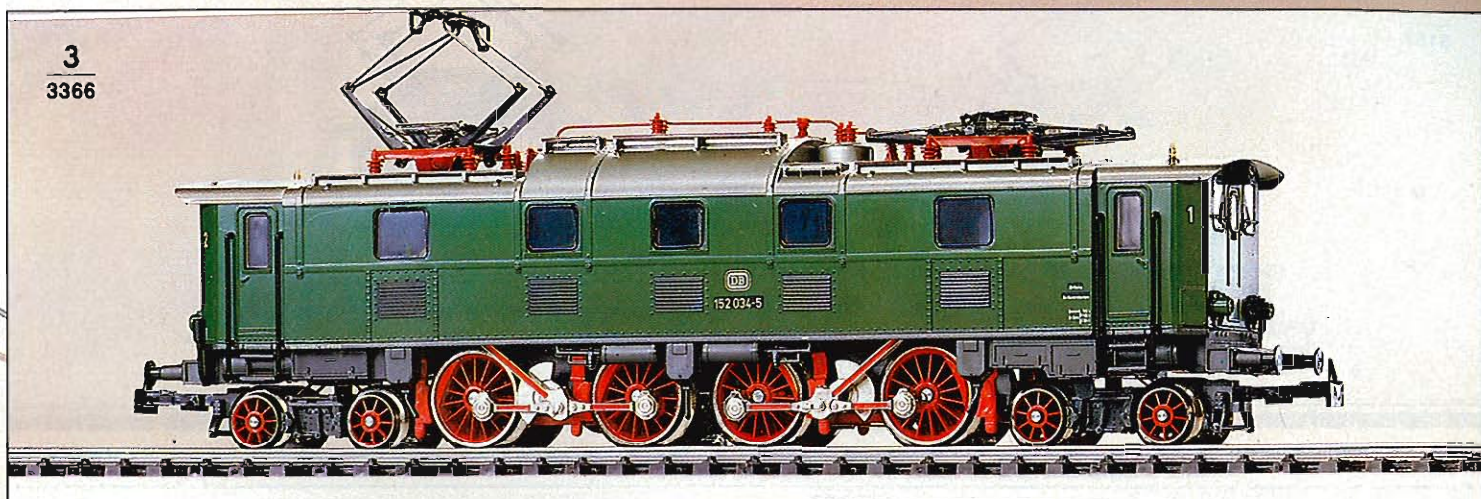
3357 · Express Locomotive ·
 German Federal Railways' class 103 ·
 3 axles powered · 4 non-skid tires ·
 Three working headlights at each
 end · Metal trucks · Coupling hooks at
 each end · Electronic direction control
 switch · Length over buffers 21.9 cm
 (8-5/8")

① = 7153 ② = 7164 ③ = 60019

2
3357



3
3366



3

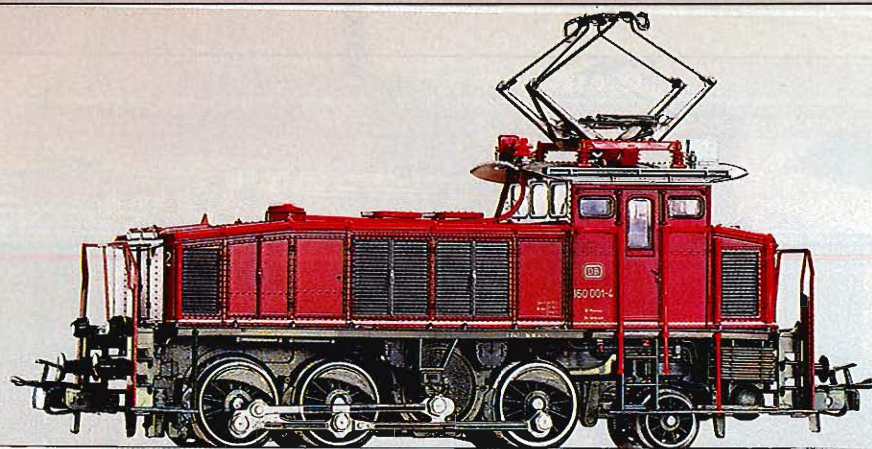
3366 · Electric Locomotive · German Federal Railways' class 152 (ex-Bavarian EP 5) · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Metal trucks · Drivers

coupled to allow for good cornering · Sprung trucks at each end · Coupling hooks at each end · Electronic direction control switch · Length over buffers 19.8 cm (7-7/8")

0=7153 =7164 =60019

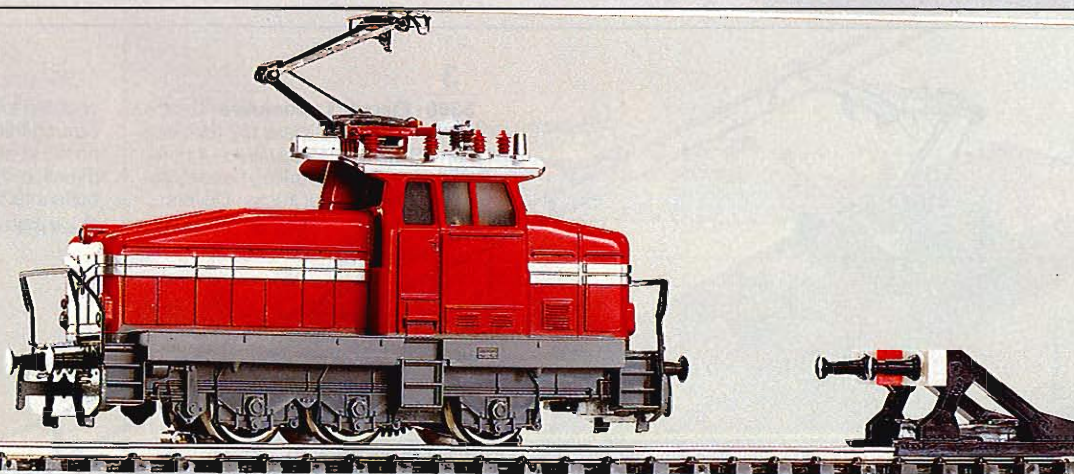


1
3157



1
3157 · Electric Locomotive · German Federal Railways' class 160 · 3 axles powered · 2 non-skid tires · Three working headlights at each end · Metal trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 12.8 cm (5")
0 = 7153 = 7185 = 60010

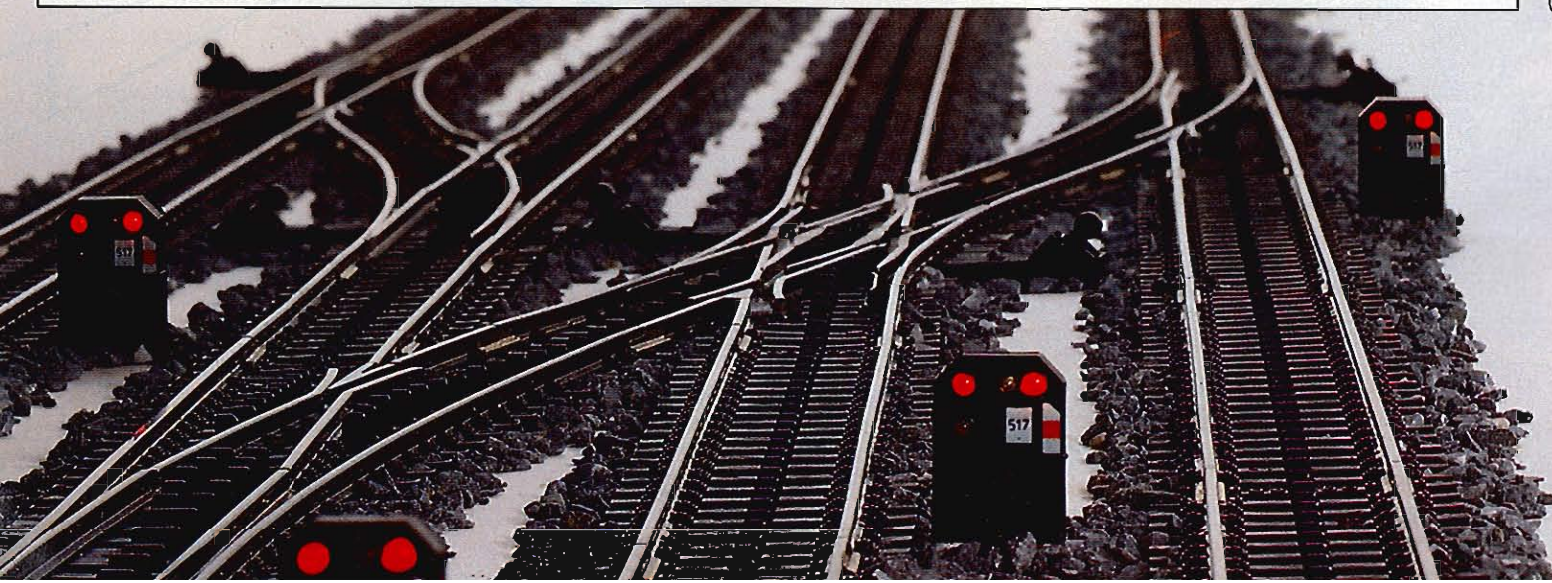
2
3044



2
3044 · Switcher · Multi-system industrial locomotive type EA 800 · 3 axles powered · 2 non-skid tires · Three working headlights at each end · Metal trucks · Coupling hooks at each end · Length over buffers 11.2 cm (4-3/8")
0 = 7154 = 7185 = 60015

3
3156 · Freight Locomotive · German Federal Railways' class 140 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Metal body · Metal trucks · Coupling hooks with pre-uncoupler at each end · Length over buffers 18.1 cm (7-1/8")
0 = 7153 = 7164 = 60015

4
3058 · Freight Locomotive · German Federal Railways' class 151 · 3 axles powered · 4 non-skid tires · Three working headlights at each end · Metal trucks · Coupling hooks at each end · Length over buffers 22.2 cm (8-3/4")
0 = 7153 = 7164 = 60015



3
3156



4
3058

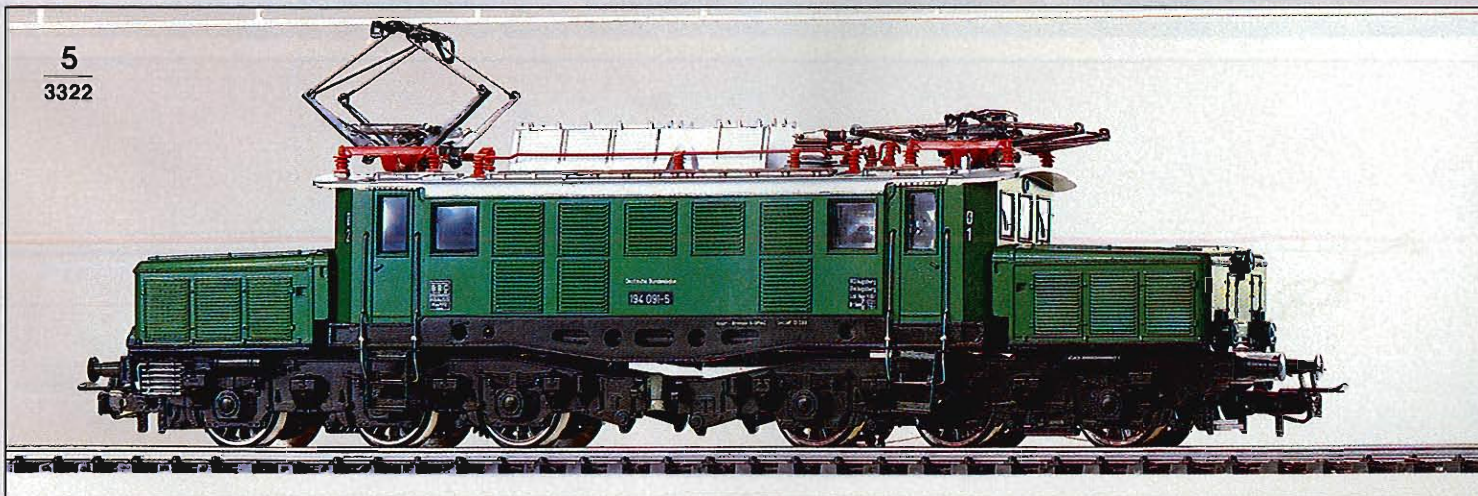


5

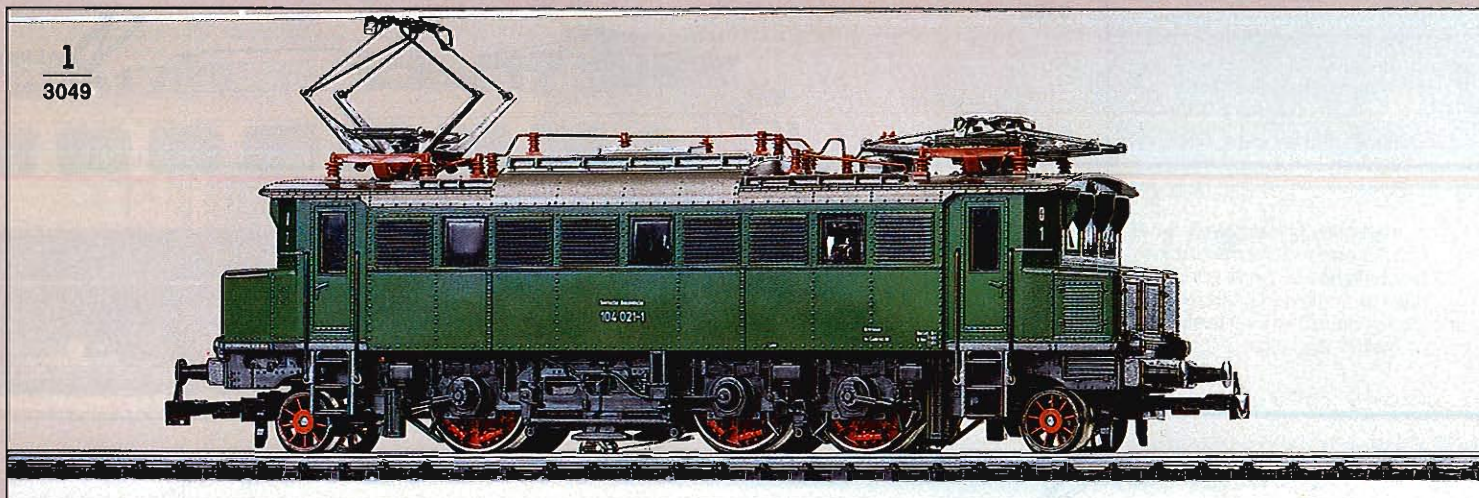
3322 · Freight Locomotive · German Federal Railways' class 194 · 3 axles powered · 4 non-skid tires · Three working headlights at each end · 3-part metal body · Metal trucks · RELEX-couplers (pages 40/138) at each end · Electronic direction control switch · Length over buffers 21 cm (8-1/4")

0 = 7153 1 = 7164 2 = 60019

5
3322



1
3049



2
3155



1

3049 · Express Locomotive ·
German Federal Railways' class 104 ·
3 axles powered · 2 non-skid tires ·
Three working headlights at each
end · Metal trucks · 2 sprung pilot
trucks at each end · Coupling hooks at
each end · Length over buffers
17.8 cm (7")

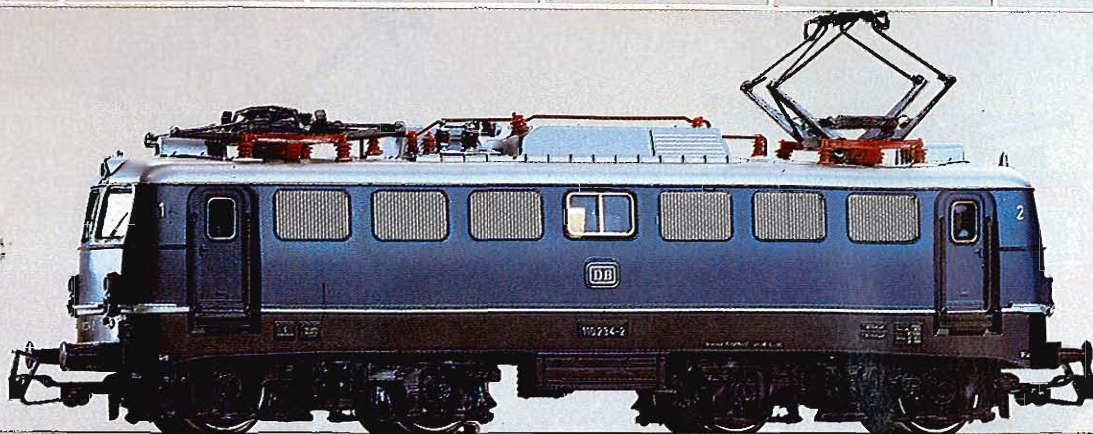
⊙=7153, ⊞=7185 ⊕=60015

2

3155 · Express Locomotive ·
German Federal Railways' class 111 ·
2 axles powered · 4 non-skid tires ·
Three working headlights at each
end · Metal trucks · RELEX-couplers
(pages 40/138) at each end · Length
over buffers 19.1 cm (7-1/2")

⊙=7153 ⊞=7164 ⊕=60015

3
3039



4
3042



3039 · Express Locomotive ·
German Federal Railways' class 110 ·
2 axles powered · 4 non-skid tires ·
Three working headlights at each
end · Metal body · Metal trucks ·
Coupling hooks with pre-uncoupler at
each end · Length over buffers 18.1 cm
(7-1/8")

0=7153 ☞=7164 ♀=60015

4
3042 · Express Locomotive ·
German Federal Railways' class 111 ·
2 axles powered · 4 non-skid tires ·
Three working headlights at each
end · Metal trucks · RELEX-couplers
(pages 40/138) at each end · Length
over buffers 19.1 cm (7-1/2")

0=7153 ☞=7164 ♀=60015

1 NEW
3323



■ In 1978, the Swiss Federal Railways decided to order four prototypes of a new locomotive type, the Re 4/4^{IV}. These high-powered machines, having a continual rating of 4475 kW and a top speed of 160 kmph (100 mph), are designed to power crack limiteds with 700 ton drawbar pull on level stretches, haul freight trains with 650 ton drawbar pull up 2.6% grades, and drag heavy regional trains with a drawbar pull up to 500 tons on level track. The front of the engine was developed in a wind tunnel. Because of their improved visibility to oncoming trains, the ends of these locomotives are red. The colorful sides add to the beauty of these locomotives.

1 Switzerland

3323 · Electric Locomotive · Swiss Federal Railways' (SBB) class Re 4/4^{IV} No. 10102 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Metal body · Metal trucks · Coupling hooks at each end · Electronic direction control switch · Length over buffers 18.1 cm (7-1/8")

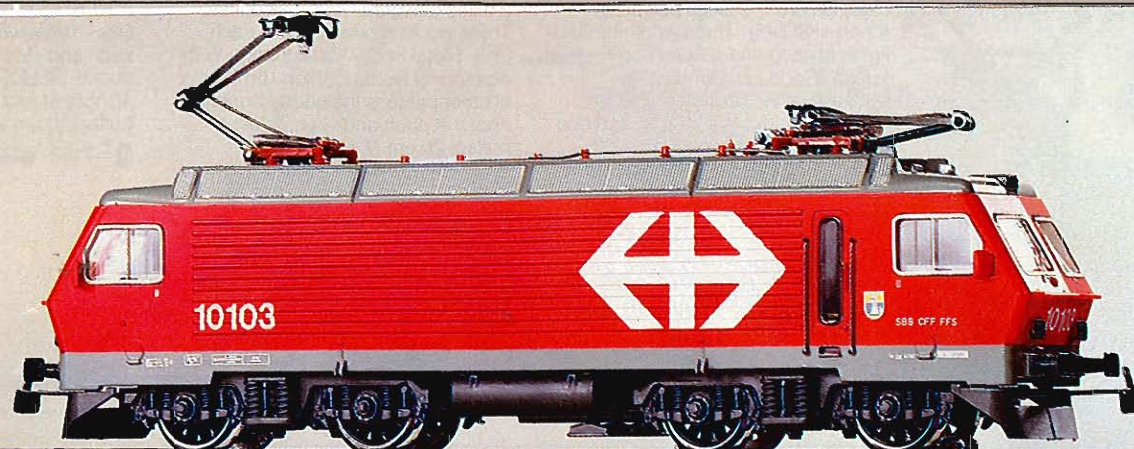
⊙=7153 ⊞=7164 ⊕=60019

2 Switzerland

3328 · Electric Locomotive · Swiss Federal Railways' (SBB) class Re 4/4^{IV} No. 10103 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Metal body · Metal trucks · Coupling hooks at each end · Electronic direction control switch · Length over buffers 18.1 cm (7-1/8")



⊙=7153 ⊞=7164 ⊕=60019

2 NEW
3328





1 Switzerland

3356 · "Crocodile" Freight Locomotive · Swiss Federal Railways' (SBB) class Be 6/8^{III} · 3 axles powered · 4 non-skid tires · Three working headlights at each end · 3-part body · Metal trucks · Good cornering ability because drivers coupled · RELEX-couplers (pages 40/138) at each end · Electronic direction control switch · Length over buffers 22.8 cm (9")

① = 7153  = 7164  = 60019



2 Switzerland

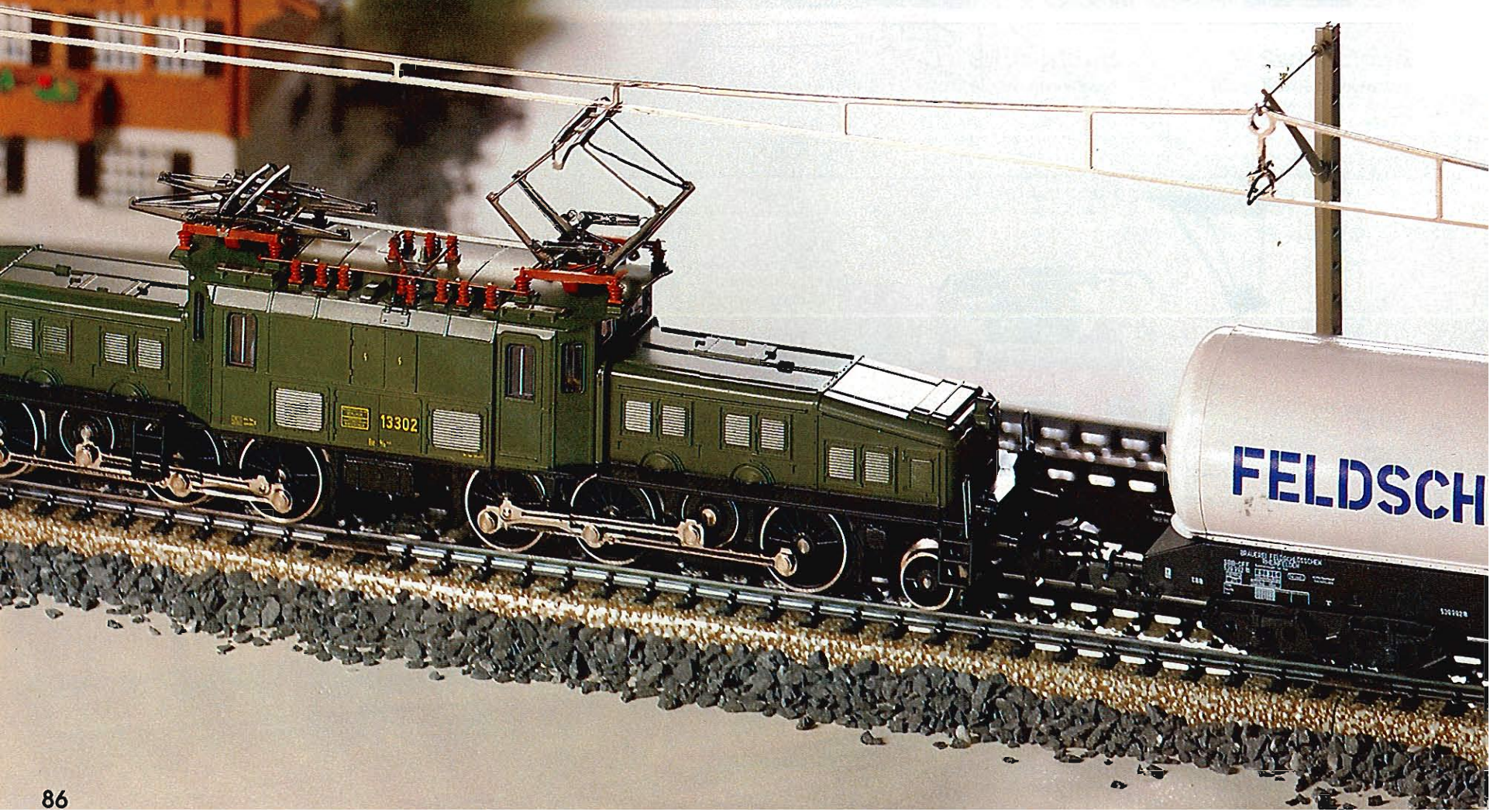
3050 · Multi-Purpose Electric · Swiss Federal Railways' (SBB) class Ae 6/6 · 3 axles powered · 4 non-skid tires · Three working headlights at each end · Metal body · Metal trucks · With emblem of Berne Canton · Emblems of other cantons included · Coupling hooks at each end · Length over buffers 20 cm (7-7/8")

① = 7153  = 7164  = 60015

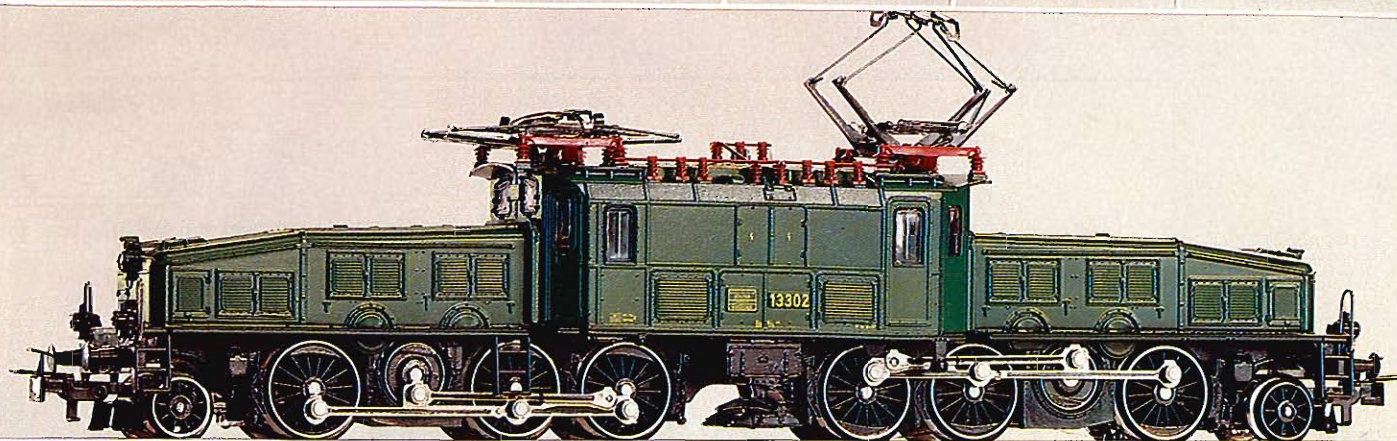
3 Switzerland

3167 · Express Locomotive · Swiss Federal Railways' (SBB) class Ae 3/6^{II} · 3 axles powered · 2 non-skid tires · Three working headlights at each end · Metal trucks · Sprung pilot trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 16 cm (6-5/16")

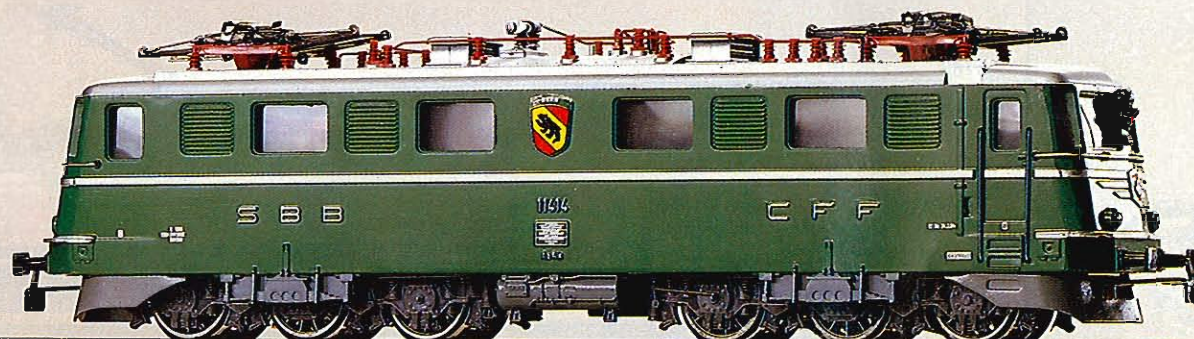
① = 7153  = 7185  = 60015



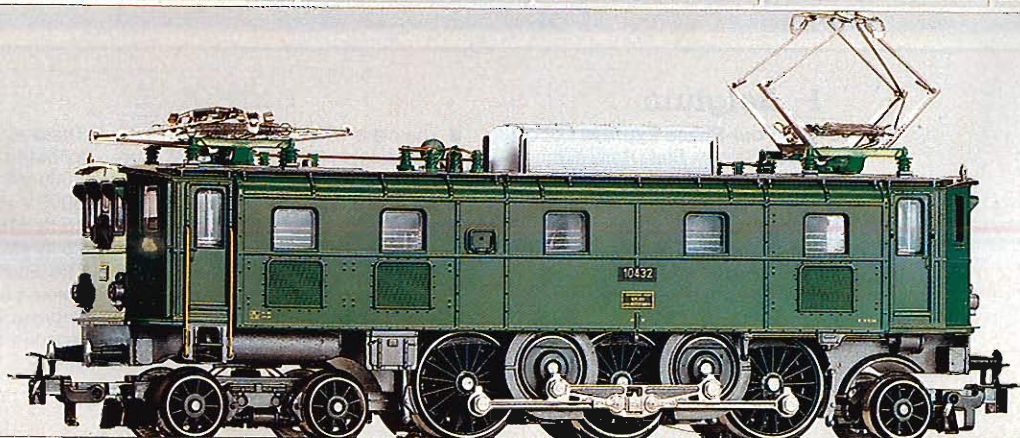
1
3356



2
3050



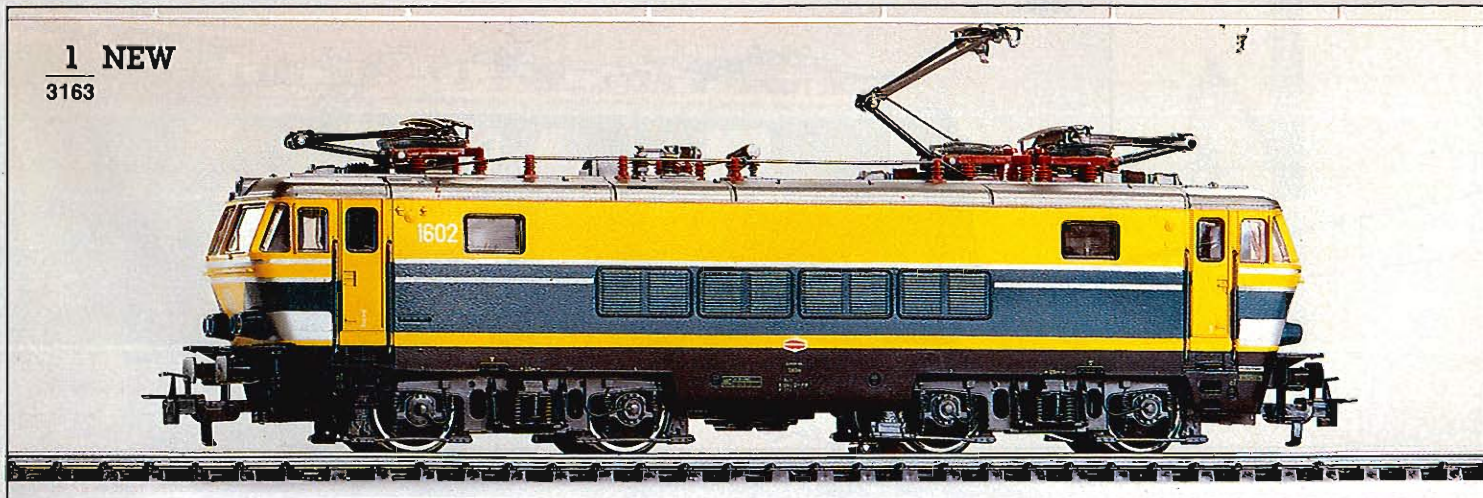
3
3167



CHLÖSSCH



1 NEW
3163



1 Belgium

3163 · Four-Phase Express Locomotive · Belgian State Railways' (NMBS/SNCB) class 16 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Metal trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 19.4 cm (7-5/8")

⊙ = 7153 ⊞ = 7164 ♀ = 60015

■ The class 16 locomotives are used by the Belgian State Railways on international routes having varying electrical currents. The engines have a continual rating of 2600 kW and a top speed of 1600 kmph (100 mph).

These electrics can operate on the following system:

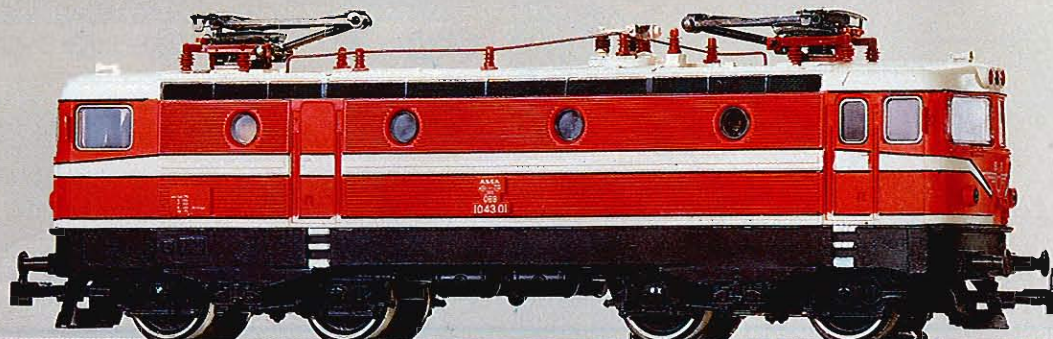
1500 V =	(SNCF, NS)
3000 V =	(SNCB, FS, JZ)
15 kV / 16 2/3 Hz ~	(DB, SBB, ÖBB)
25 kV / 50 Hz ~	(SNCF, CFL)

The locomotives were originally colored blue, however, in order to improve their visibility for safety reasons, the 16s have been repainted yellow.

2
3159



3
3041



2 Austria

3159 · Freight Locomotive · Austrian Federal Railways' (ÖBB) class 1020 · 3 axles powered · 4 non-skid tires · Three working headlights at each end · 3-part metal body · Metal trucks · RELEX-couplers (pages 40/138) at each end · Length over buffers 21 cm (8-1/4")

① = 7153 ② = 7164 ③ = 60015

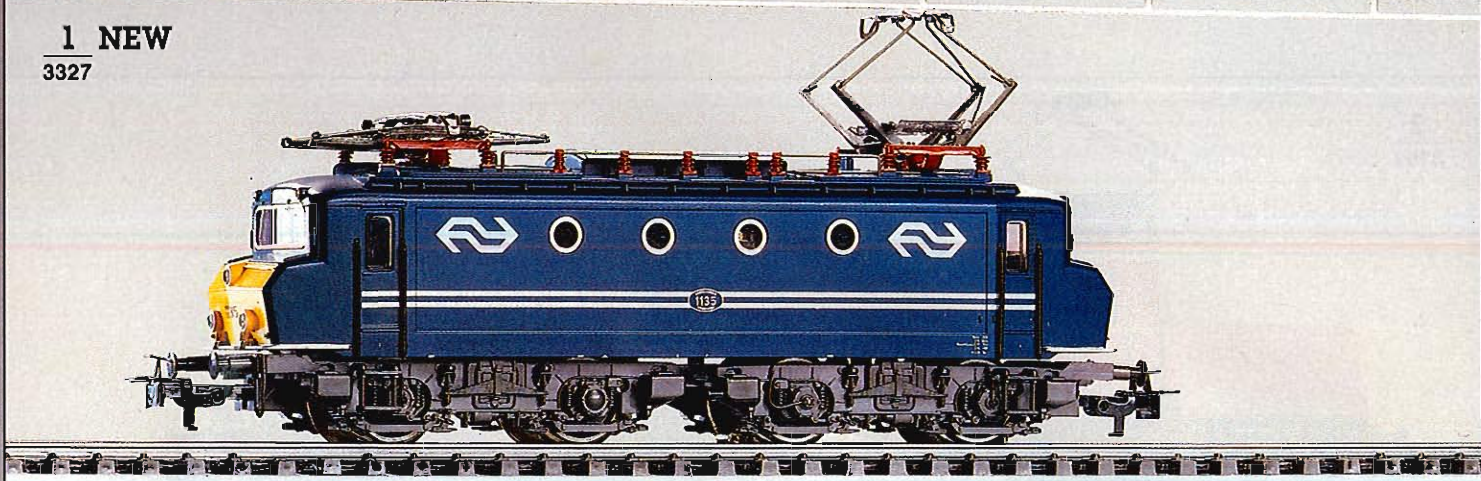
3 Austria

3041 · Multi-Purpose Electric · Austrian Federal Railways' (ÖBB) class 1043 · 2 axles powered · 4 non-skid tires · Four working headlights at each end · Metal trucks · Coupling hooks at each end · Length over buffers 17.5 cm (6-7/8")

① = 7153 ② = 7164 ③ = 60015

■ The class 1100 locomotives of the Netherlands State Railways were built in France by the Alstom Company. Their top speed is 135 kmph (84 mph) and are used in freight and passenger service. Originally painted blue, the 1100s are now getting either a new gray and yellow coat or a reflecting yellow at the two ends.

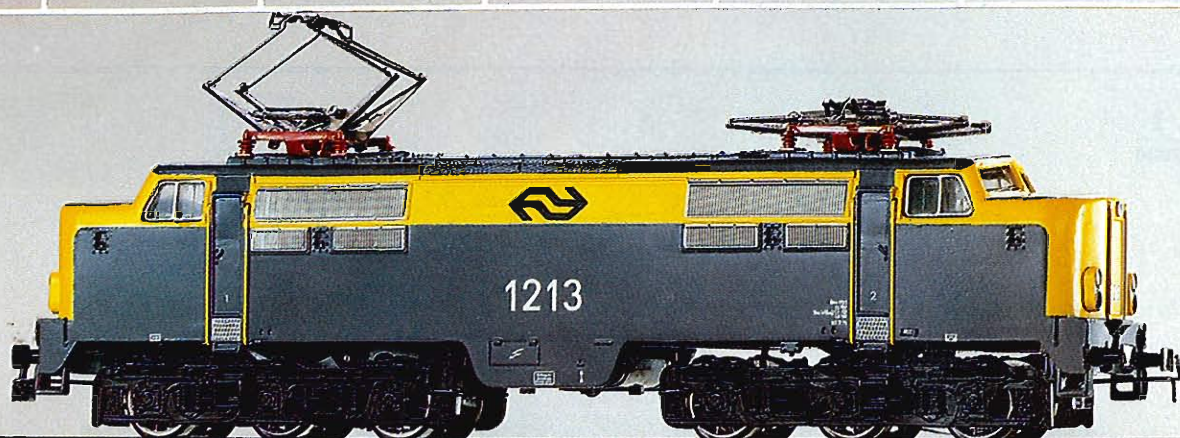
1 NEW
3327



2
3324





3 NEW
3168



■ The 1200 class locomotives of the Netherlands State Railways, designed for 1500 volt system, were built according to American plans. They are used on heavy mixed trains. These engines have witnessed many rebuilding efforts, primarily at the ends and in the cabs. Their top speed is 135 kmph (84 mph), and a continual rating of 2200 kW.

1 Netherlands

3327 · Multi-Purpose Locomotive · Netherlands Railways' (NS) class 1100 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Metal trucks · RELEX-couplers (pages 40/138) at each end · Electronic direction control switch · Length over buffers 16.3 cm (6-3/8")

①=7153 =7164 =60019



2 Netherlands

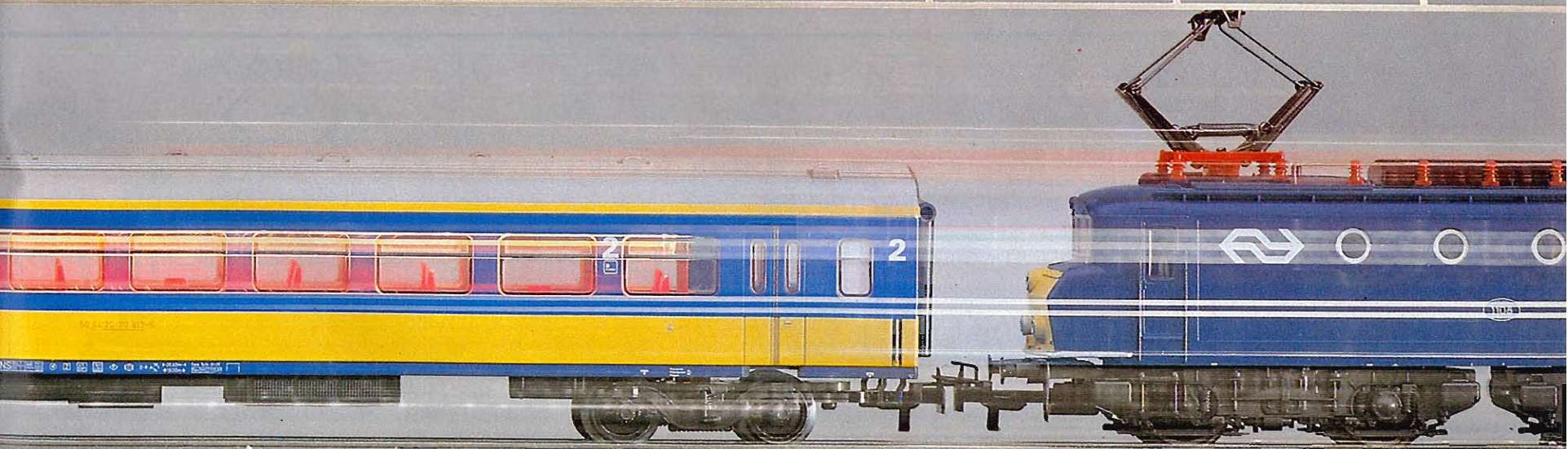
3324 · Multi-Purpose Locomotive · Netherlands Railways' (NS) class 1100 · 2 axles powered · 4 non-skid tires · Three working headlights at each end · Metal trucks · RELEX-couplers (pages 40/138) at each end · Electronic direction control switch · Length over buffers 16.3 cm (6-3/8")

①=7153 =7164 =60019

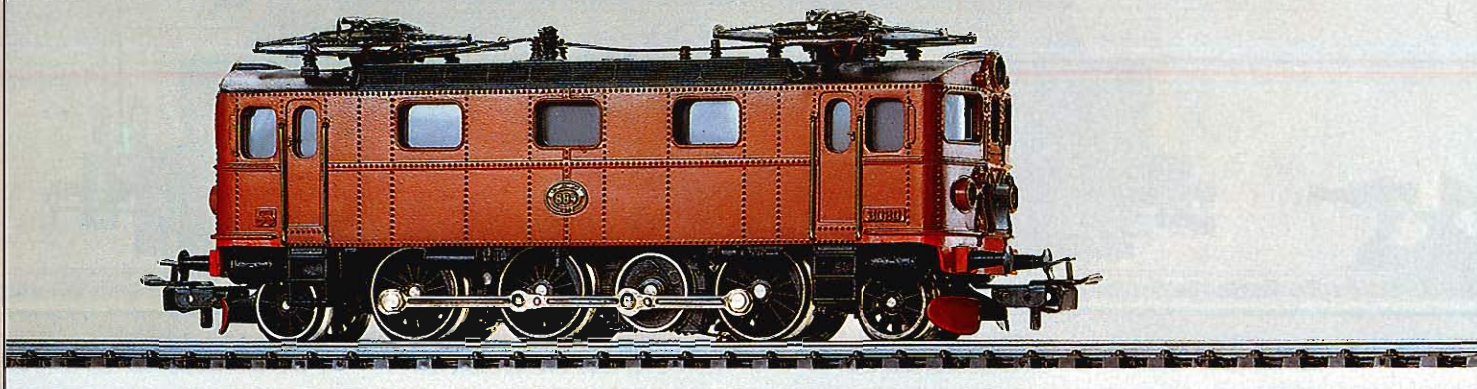
3 Netherlands

3168 · Electric Locomotive · Netherlands Railways' (NS) class 1200 · 3 axles powered · 4 non-skid tires · Three working headlights at each end · Metal body · Metal trucks · Coupling hooks at each end · Length over buffers 19.6 cm (7-3/4")

①=7154 =7164 =60015





1
3030





1 Sweden

3030 · Multi-Purpose Locomotive ·
Swedish State Railways' (SJ) class Da ·
3 axles powered · Jackshaft driven
through gears · 2 non-skid tires ·
Three working headlights at each
end · Metal body · Metal trucks ·
RELEX-couplers (pages 40/138) at
each end · Length over buffers
14.7 cm (5-3/4")

0=7153 =7185 =60015

2 Sweden

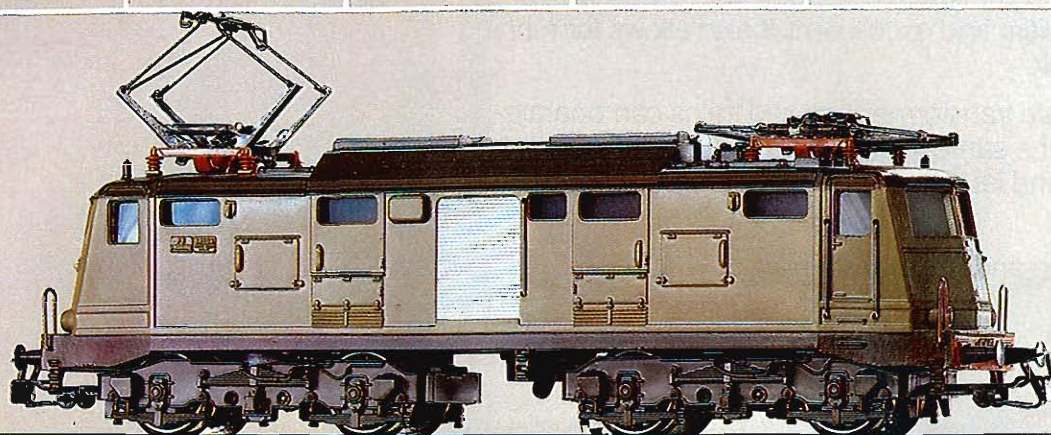
3043 · Multi-Purpose Locomotive ·
Swedish State Railways' (SJ) class Rc ·
2 axles powered · 4 non-skid tires ·
Four working headlights at each end ·
Metal trucks · Coupling hooks at each
end · Length over buffers 17.5 cm
(6-7/8")

0=7153 =7164 =60015

2
3043



3
3035



3 Italy
3035 · Electric Locomotive · Italian State Railways' (FS) class E 424 · 2 axles powered · 4 non-skid tires · Two working headlights at each end · Metal body · Metal trucks · Coupling hooks with pre-uncoupler at each end · Length over buffers 17.5 cm (6-7/8")

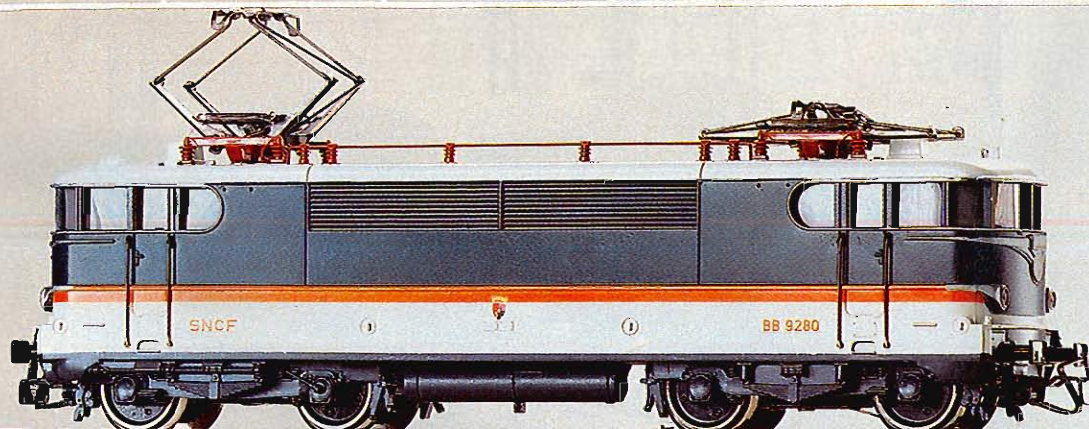
①=7153 =7164 ②=60015

4 France

3165 · Electric Locomotive · French State Railways' (SNCF) class BB 9200 · 2 axles powered · 4 non-skid tires · Two working headlights at each end · Metal body · "Corail" lettering · Metal trucks · Coupling hooks with pre-uncoupler at each end · Length over buffers 18 cm (7-1/8")

①=7153 =7164 ②=60015

4
3165



Multi-Train Operation

Adding catenary adds more than realism and excitement. It also allows for running more than one train on the same track.

Just connect the catenary to a separate transformer and two trains can operate totally independent of each other on the same stretch of track. Or let the overhead supply current for running the trains and let the center "rail" supply current for lighting the cars.

Märklin catenary is functionally reliable and is easily set up.

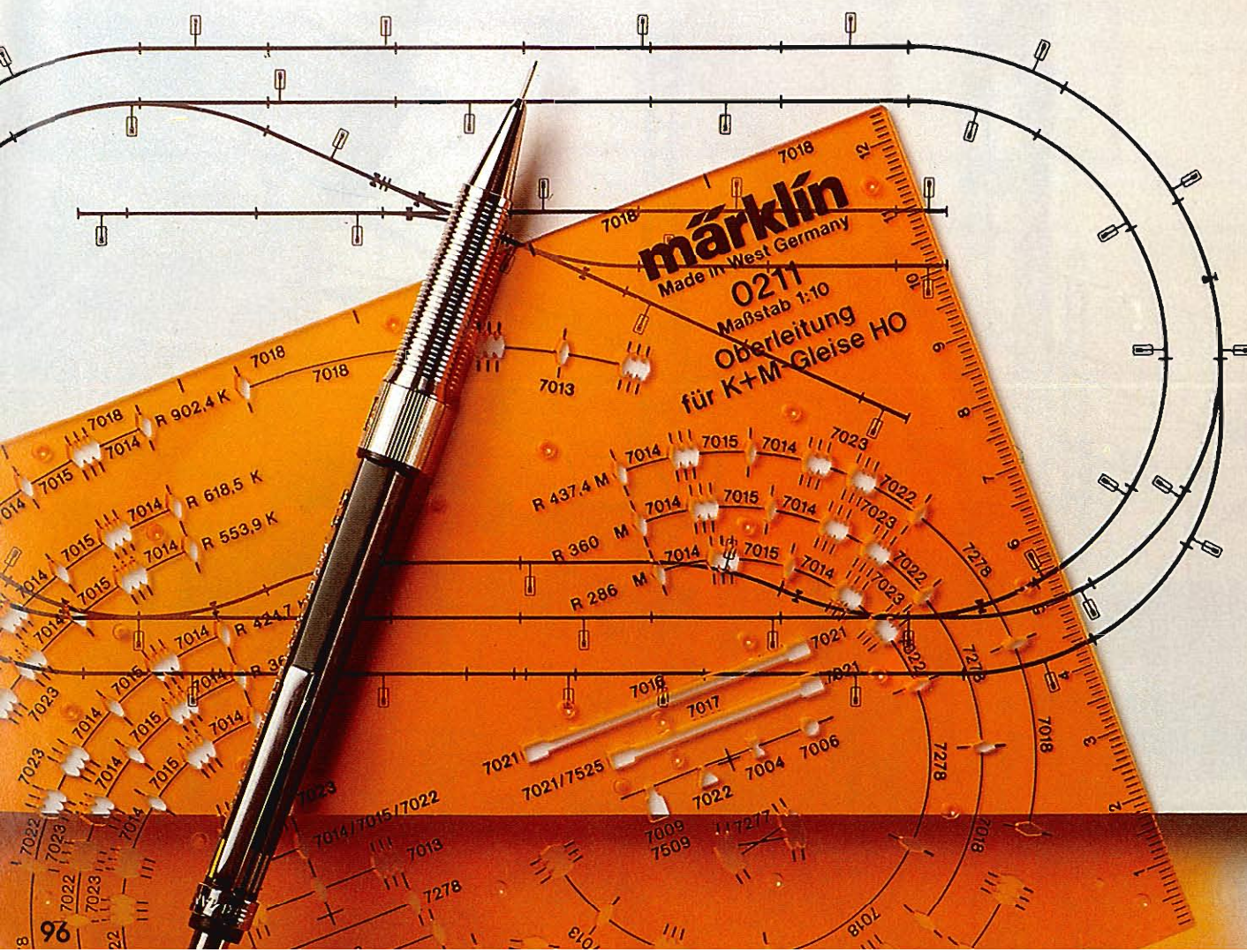




Catenary Adds Realism

Catenary or overhead wires, provides a realistic and practical way to supply electric current to locomotives. The overhead wires serve the same function as the center studs on the tracks.

Getting started is easy thanks to the Märklin catenary stencils. The stencil set is scaled 1:10 and has replicas of all wire lengths and tower masts as well as the necessary article number.

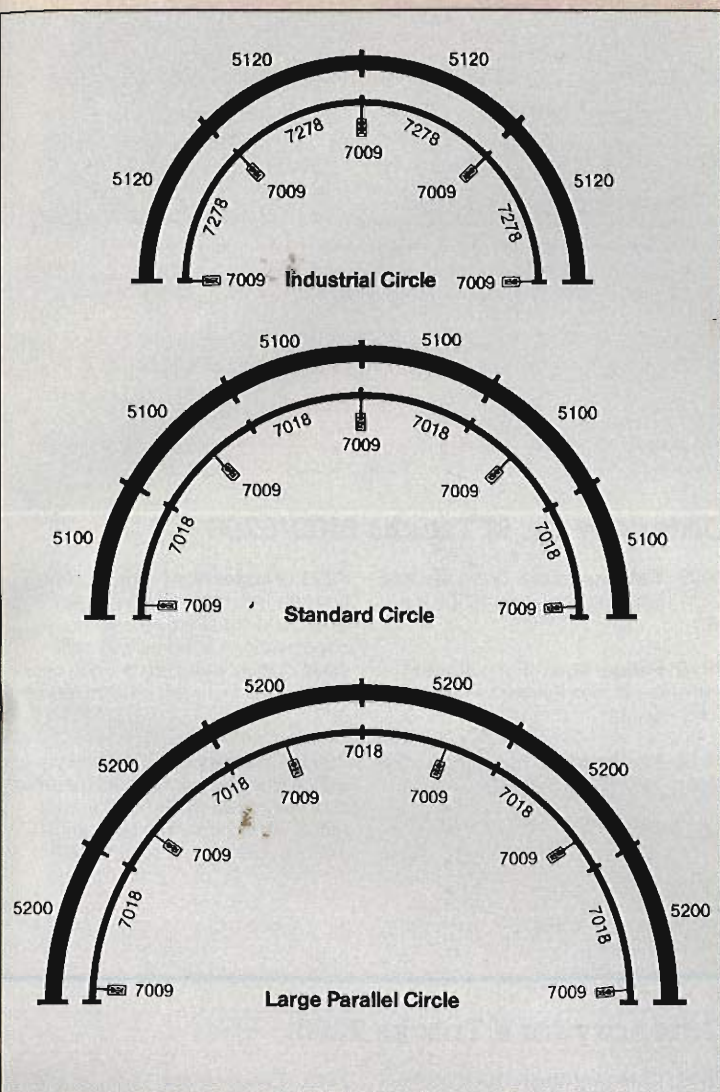


0211 K + M · Catenary Stencils ·
For planning an overhead system ·
For K or M Tracks · Stencils include
1:10 scaled replicas of all towers and
wire lengths · Use a sharp pencil to
trace · Instructions included

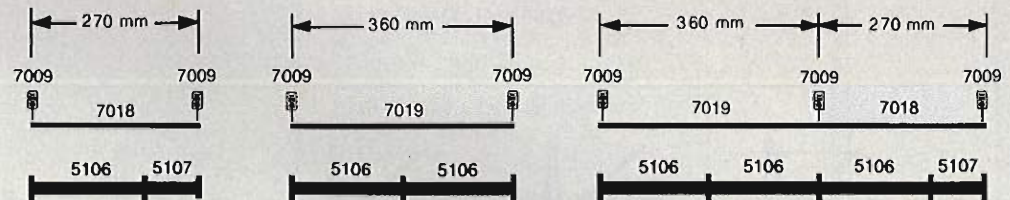
**Catenary Parts List for the
SET Layout (page 24)
(S + E + T1 + T2 + T3)**

3 - 7004
54 - 7009
10 - 7013
16 - 7014
16 - 7015
22 - 7018
7 - 7019
9 - 7023
1 - 7201
1 - 7277
2 - 7278

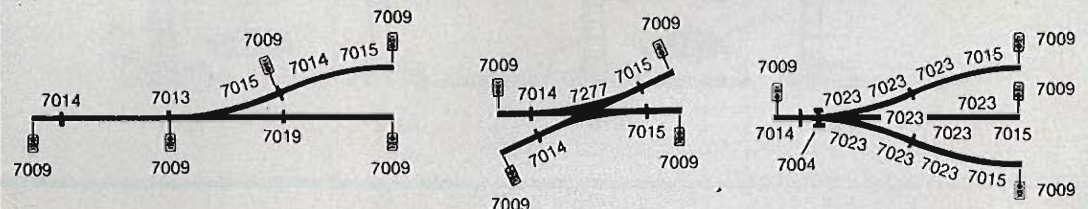
1 30 VA transformer



Overview of Necessary Items Needed for Adding Catenary to M Tracks



Straight Sections



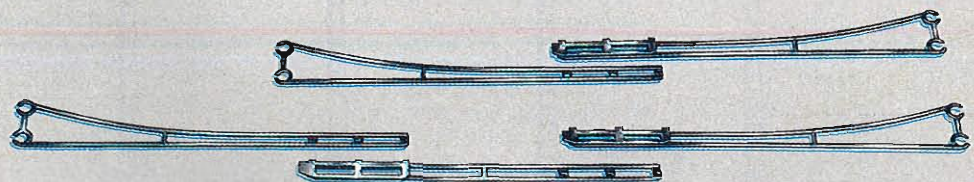
Switches
5137, 5140, 5202, 5221

Crossings
5114, 5128, 5207, 5211, 5215

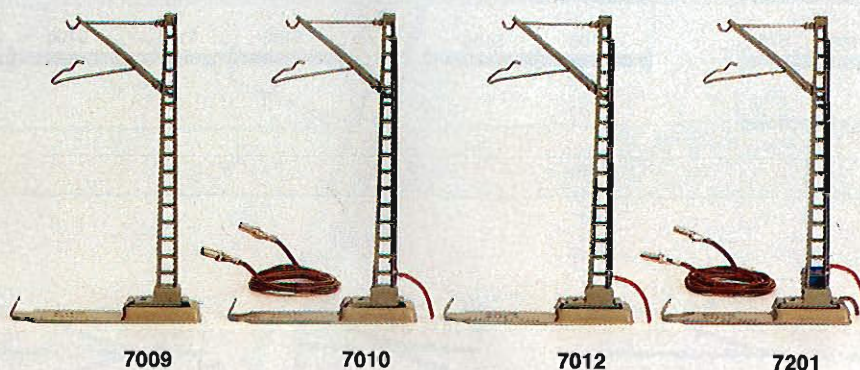
Three Way switch
5214

The number of required towers or masts is always one higher than the number of 7018 and/or 7019 wire sections. Intermediate lengths using a 7014/7015 or 7014/7023/7015 can be treated as a single wire section.

Finally, Catenary is quite flexible and the difference between theory and application is often only 1 or 2 masts or wire sections.



from 175 to 205 mm (7" to 8-1/8")
from 235 to 285 mm (9-1/4" to 11-1/4")



Catenary for M Tracks 5100/5200

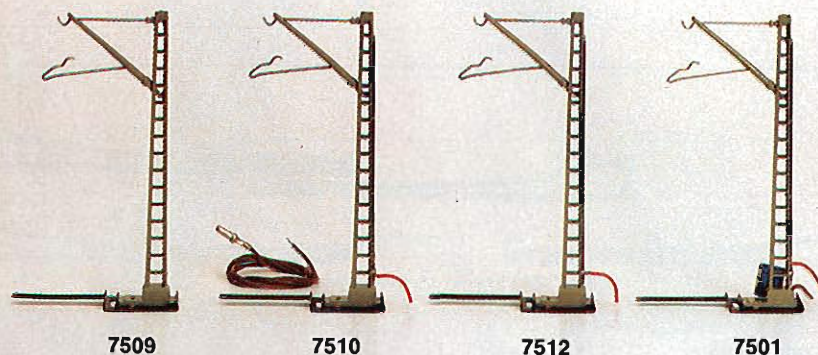
7009 · Catenary Mast · Basic element for M Track catenary · Height 100 mm (4")

7010 · Feeder Mast · For supplying current · Includes 2 leads and instructions · Height 100 mm (4")

7012 · Feeder Mast · For signals with 1 lead · Height 100 mm (4")

7201 · Feeder Mast · For supplying current · Includes red and brown lead · Additional brown lead · Built-in capacitor for suppressing radio static · 1 mast required for each circuit · Instructions included · Height 100 mm (4")

7005 · Catenary Set · For train control with 7000 series signals not mounted on lower masts · Includes 2 feeder masts 7012, 2 insulator sections 7022 and 2 overhead line sections 7014



Catenary for K Tracks 2200

7509 · Catenary Mast · Basic element for K Track catenary · Height 97 mm (3-7/8")

7510 · Feeder Mast · With red lead and plug attached to mast · Brown lead with plug · Includes instructions · Height 97 mm (3-7/8")

7512 · Feeder Mast · With red lead attached · For use when using home signals with catenary system · Height 97 mm (3-7/8")

7501 · Feeder mast · With red and brown leads · Built-in capacitor for suppressing radio static · One mast required per circuit · Instructions included · Height 97 mm (3-7/8")

7505 · Catenary Set · For train control on 7200 series signals not mounted to tower · Includes 2 feeder masts 7512, 2 insulator sections 7022 and 2 contact line sections 7014 · For K Track (2200 series) only

Catenary for K and M Tracks

All contact line sections are nickel plated.

7013 · Contact Line Section · Designed especially for switches · Length 240 mm (9-1/2")

7016 · Cross-Span · Spans 5 tracks · Hooks onto tower masts · Length 390 mm (1' 2-1/4")

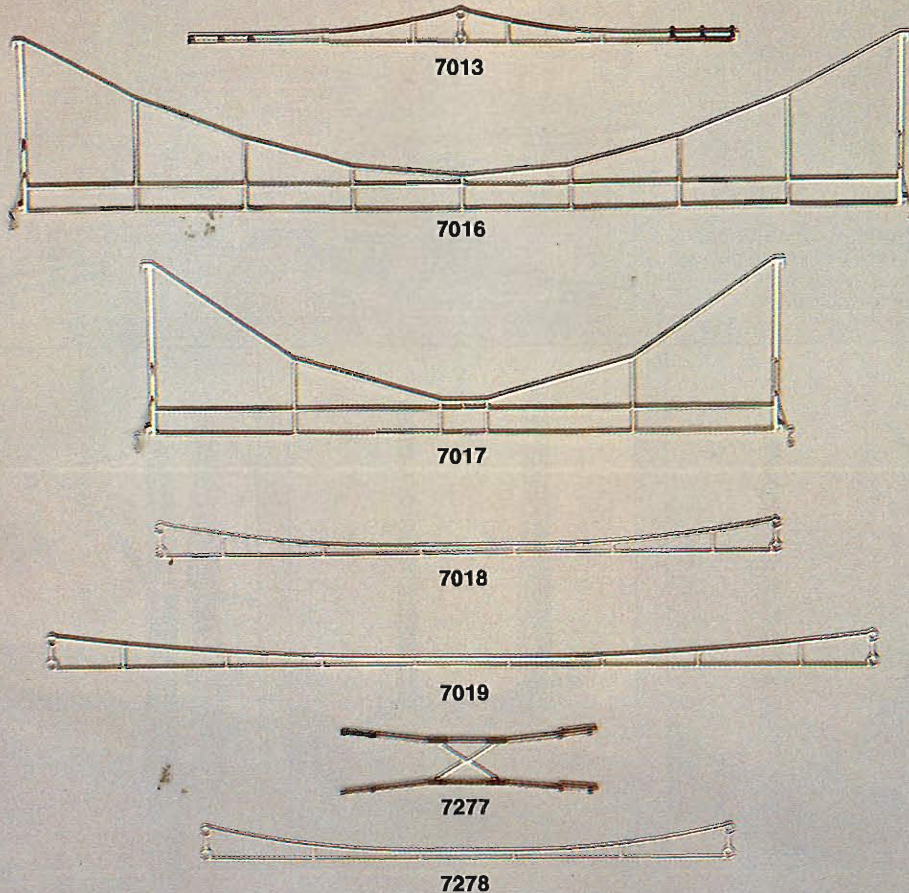
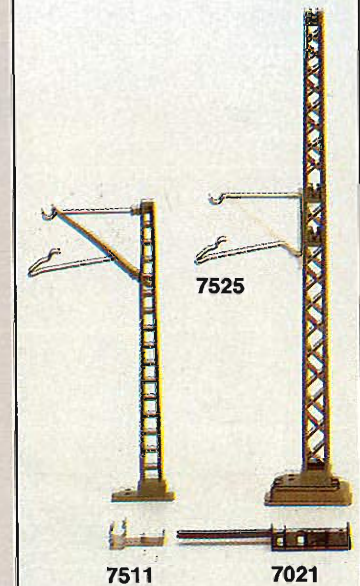
7017 · Cross-Span · Spans 3 tracks · Hooks onto tower masts · Length 280 mm (11")

7018 · Contact Line Section · For straight and curve tracks · Length 270 mm (10-5/8")

7019 · Contact Line Section · For straight tracks only · Length 360 mm (1' 3-3/8")

7277 · Crossing Section · For 2257, 2258, 2259, 2260, 2275, 5114, 5128, 5207, 5211, 5215

7278 · Contact Line Section · For straight and curve tracks · Length 235 mm (9-1/4")



7014 · Contact Line Section · Female portion for snap-on connection · Length 115 mm (4-1/2")

7015 · Contact Line Section · Male portion for snap-on connection · Length 115 mm (4-1/2")

7022 · Insulator Section · Male portion (for snap-on connection) for interrupting current flow · Length 115 mm (4-1/2")

7023 · Adjustment Section · For snap-on connections · Length 100 mm (4")

7003 · Catenary System Connector Lead · For use with signals when tower masts are used, and for supplying current to any point · Length 600 mm (1' 11-5/8")

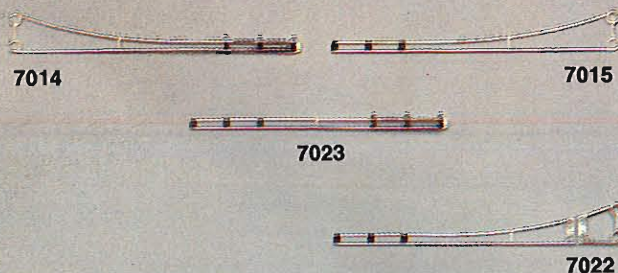
7004 · Fastening Kit · Includes 5 bolts, 5 nuts, 5 washers · Ideal for use when usual methods of construction not possible

7006 · Contact Line Insulation · For insulating sections of contact line from cross-spans · One required for each track and cross-span · 15 x 6 mm (5/8" x 1/4")

7511 · Bridge Mast · For attaching to sides of plastic bridges and ramps · Height 97 mm (3-7/8")

7021 · Tower Mast · With recesses for hooking on cross-spans 7016 or 7017 and the cantilever support arm 7525 · For tower mast with arc light see page 178 · Height with M Tracks 157 mm (6-13/16") · Height with K Tracks 154 mm (6-1/16")

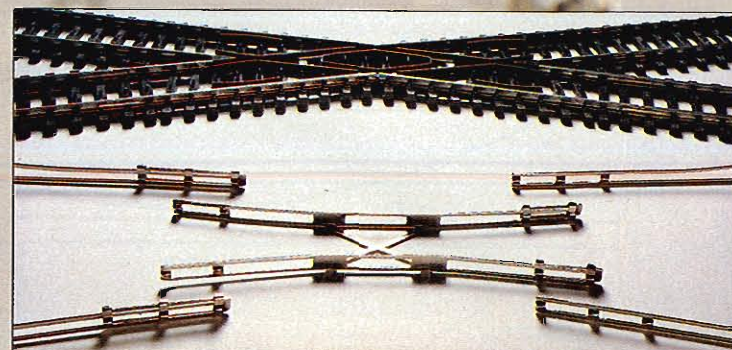
7525 · Cantilever Support Arm · For use with tower mast 7021 · Can hold one or two overhead lines



Overhead Strings Easily

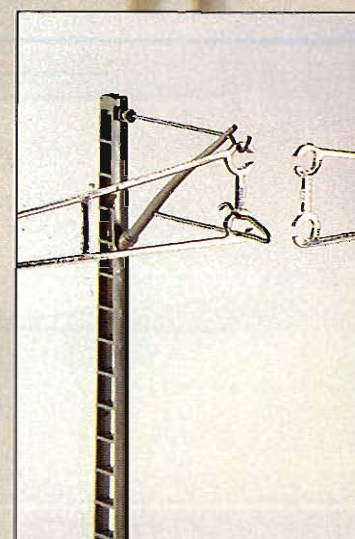
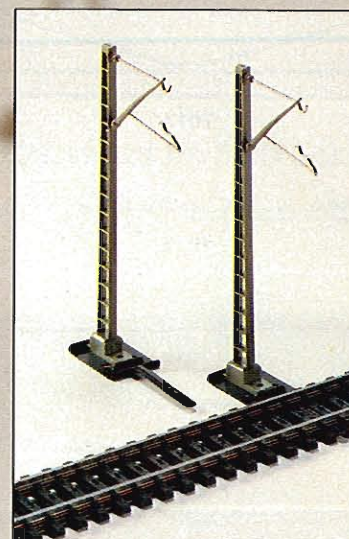
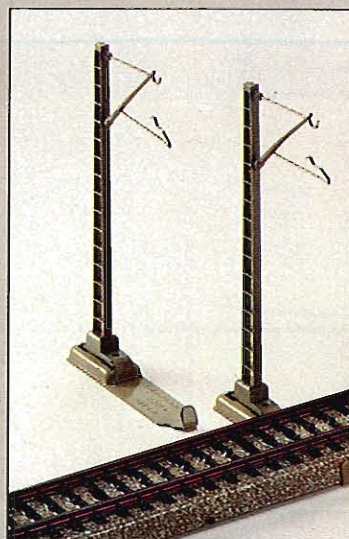
1. Always start either at a crossing (using a 7277) or at a switch (using a 7013).

2. Connect to the above piece the sections 7014 or 7015. Remember to bend wire where necessary to conform to track curvature.

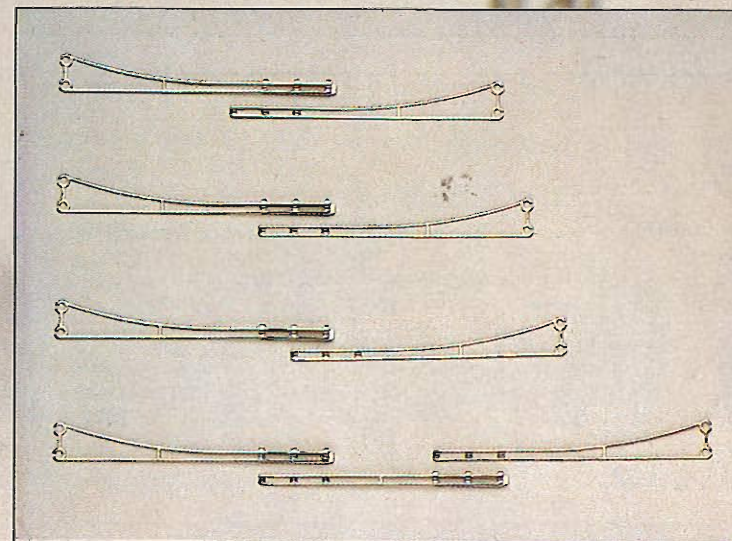


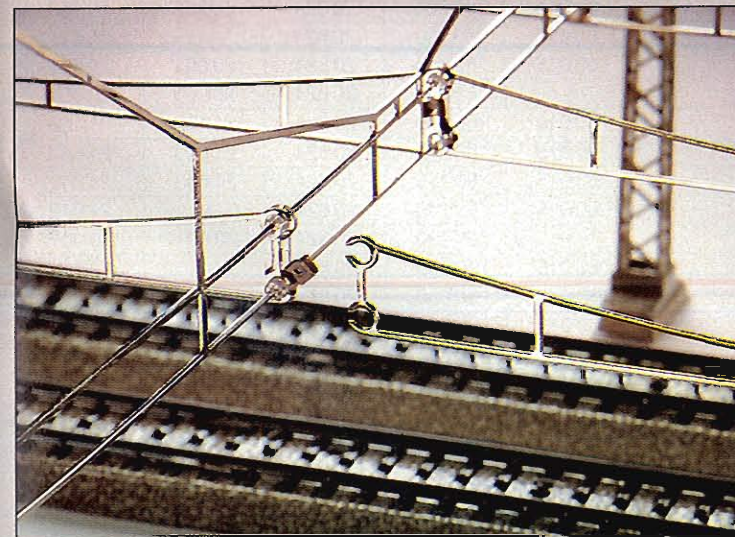
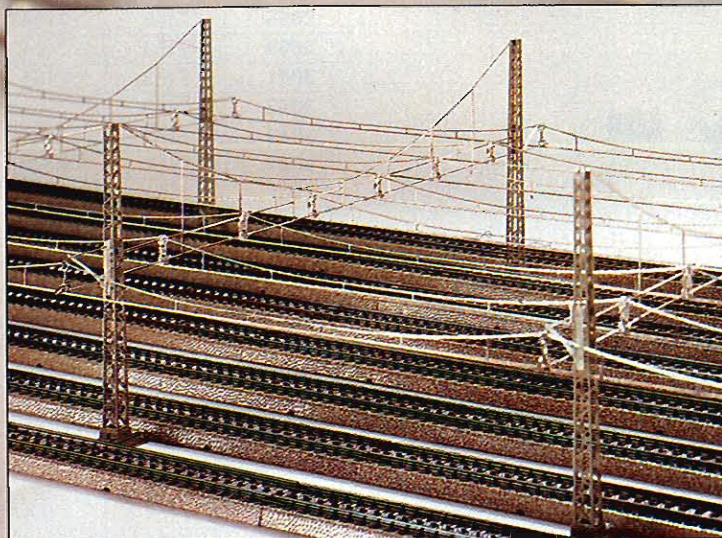
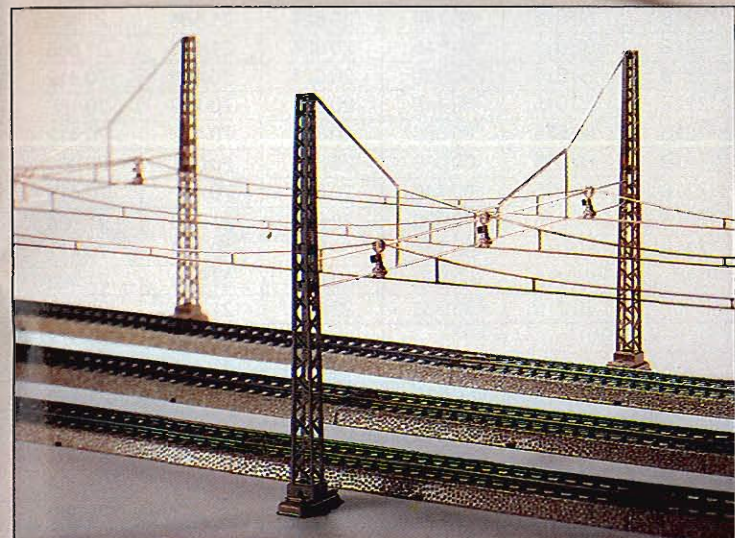
3. Now position the masts and string the wires.

4. On one and two track lines, continue adding wire sections and masts until a switch or crossing is reached.



5. The stretch between the last mast and the next switch requires either a 7014 and 7015, or a 7014-7023-7015 combination. These variable sections are always applied at such special areas. They have the same functions as half or quarter track sections.





6. For three or four track lines, use tower 7021 and cross span 7017 for holding the contact wires. On five or six track lines, use the cross span 7016 instead of the 7017. The cantilever support arm is used to support a contact wire of a track on the "other" side of the mast. Remember that, on multi-track lines, the masts should always be directly opposite each other.










7. This illustration shows how contact wires are hung onto cross span wires.

Overhead (catenary) construction through bridges, signals, circuit breaks, or for train control and connection to additional transformers are also easy to install. Please refer to page 99 for necessary accessories.

Spare Parts for Locomotives

Installation instructions are included with the non-skid tires, sliders, light bulbs, and reversing unit springs.










The tables shown here list the important spare parts for each locomotive. All spare parts can be obtained through your Märklin dealer.

 Locomotives	 Non-skid tire	 Slider	 Pantograph	 Light bulb	 Brushes	 Reversing switch	 Front coupler	 Rear coupler
3000	7154	7185	-	60 010	60 030	20 824	20 001	20 001
3003	7153	7185	-	60 010	60 030	20 824	20 214	70 154
3016	7153	7164	-	60 010	60 030	20 824	20 989	20 989
3021	7154	7183	-	60 010	60 030	20 824	21 166	21 166
3028	7154	7164	-	60 001	60 030	21 899	70 412	70 412
				60 015				
3030	7153	7185	7218	60 015	60 030	20 824	21 128	21 128
3035	7153	7164	7218	60 015	60 146	20 824	21 484	21 484
3039	7153	7164	7218	60 015	60 146	20 824	21 484	21 484
3041	7153	7164	7219	60 015	60 030	20 824	70 412	70 412
3042	7153	7164	7218	60 015	60 146	20 824	70 156	70 156
3043	7153	7164	7218	60 015	60 030	20 824	70 412	70 412
3044	7154	7185	7219	60 015	60 030	20 824	20 001	20 001
3049	7153	7185	7218	60 015	60 146	20 824	70 412	70 412
3050	7153	7164	7218	60 015	60 030	20 824	21 708	21 708
3058	7153	7164	7218	60 015	60 146	20 824	70 412	70 412
3060	7154	7185	-	60 015	60 030	20 824	21 583	21 586
3065	7153	7185	-	60 010	60 030	22 970	21 376	21 376
							21 377	21 377
3066	7154	7164	-	60 015	60 030	20 824	21 783	21 783
3067	7154	7164	-	60 015	60 030	20 824	21 783	21 783
3071	7154	7164	-	60 001	60 030	22 049	-	21 929
		7175		60 015				21 951
								21 954
3072	7154	7164	-	60 010	60 030	20 824	21 842	21 842
3074	7154	7164	-	60 015	60 030	20 824	70 156	70 156
3075	7154	7164	-	60 015	60 030	20 824	70 156	70 156
3077	7154	7164	-	60 015	60 030	20 824	-	-
3078	7154	7185	-	60 015	60 030	20 824	20 001	20 001
3080	7154	7185	-	-	60 030	20 824	20 001	20 001
3081	7154	7183	-	60 010	60 030	20 824	21 166	21 166
3082	7153	7164	-	60 015	60 146	20 824	21 843	21 842
3084	7153	7164	-	60 015	60 146	20 824	21 843	21 842
3085	7152	7164	-	60 015	60 146	20 824	-	21 842
3087	7154	7185	-	-	60 030	20 824	20 001	20 001
3089	7152	7185	-	60 015	60 030	20 824	-	70 154
3092	7152	7185	-	60 015	60 030	20 824	-	21 842
3093	7152	7185	-	60 015	60 030	20 824	-	21 842
3095	7153	7185	-	60 010	60 030	20 824	22 532	21 842
3096	7153	7164	-	60 015	60 030	22 970	24 456	24 456
							22 897	22 897
							22 924	22 924
3099	7152	7185	-	60 015	60 030	20 824	22 418	21 842
3102	7153	7185	-	60 015	60 146	20 824	21 843	21 842
3104	7153	7185	-	-	60 146	20 824	20 001	20 001

7194 · Reversing Unit Springs · Pack of 5 springs suitable for all locomotives

7001 · Coupling Guide · Made of nickel plated steel · For testing couplers

7199 · Bottle of Oil · Contains about 10 cc · Suitable for all cars and engines

								
Locomotives	Non-skid tires	Slider	Pantograph	Light bulb	Brushes	Reversing switch	Front coupler	Rear coupler
3106	7153	7164	—	60 015	60 146	20 824	24 281	24 281
3107	7153	7164	—	60 015	60 146	20 824	24 281	24 281
3129	7154	7185	—	60 015	60 030	20 824	21 583	21 586
3141	7153	7185	—	60 010	60 030	20 824	21 411	21 411
3144	7154	7185	—	60 015	60 030	20 824	20 001	20 001
3145	7154	7185	—	60 015	60 146	20 824	70 156	70 156
3146	7154	7185	—	60 015	60 146	20 824	70 156	70 156
3147	7154	7164	—	60 010	60 030	20 824	21 842	21 842
3149	7153	7185	—	60 010	60 030	20 824	21 411	21 411
3153	7153	7164	7208	60 015	60 146	20 824	70 412	70 412
3155	7153	7164	7218	60 015	60 146	20 824	70 156	70 156
3156	7153	7164	7218	60 015	60 146	20 824	21 484	21 484
3157	7153	7185	7218	60 010	60 146	20 824	21 842	21 842
3159	7153	7164	7218	60 015	60 030	20 824	21 842	21 842
3163	7153	7164	7219	60 015	60 146	20 824	70 156	70 156
3165	7153	7164	7218	60 015	60 146	20 824	21 773	21 773
3167	7153	7185	24 800	60 015	60 146	20 824	70 156	70 156
3168	7154	7164	7218	60 015	60 030	20 824	21 783	21 783
3309	7153	7164	—	60 019	60 146	22 970	24 456	24 460
							24 457	24 461
3310	7152	7164	—	60 019	60 146	25 220	—	32 540
3312	7153	7185	—	60 019	60 146	25 220	21 842	21 842
3322	7153	7164	7218	60 019	60 030	25 220	21 842	21 842
3323	7153	7164	7219	60 019	60 146	25 220	24 810	24 810
3324	7153	7164	7218	60 019	60 146	25 220	70 156	70 156
3327	7153	7164	7218	60 019	60 146	25 220	70 156	70 156
3328	7153	7164	7219	60 019	60 146	25 220	24 810	24 810
3346	7154	7185	—	60 019	60 146	25 220	70 156	70 156
3356	7153	7164	7218	60 019	60 146	25 220	70 156	70 156
3357	7153	7164	7247	60 019	60 146	25 220	22 313	22 313
3366	7153	7164	7218	60 019	60 146	25 220	70 412	70 412

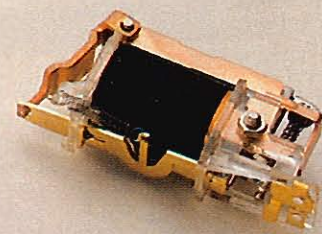
Locomotives which have been discontinued within the past 3 years:

3022	7153	7164	7218	60 015	60 030	20 824	21 842	21 842
3038	7153	7164	7218	60 015	60 146	20 824	21 773	21 773
3054	7153	7164	7218	60 015	60 030	20 824	22 313	22 313
3055	7154	7164	7218	60 015	60 030	20 824	21 783	21 783
3056	7153	7164	7218	60 015	60 146	20 824	70 156	70 156
3057	7153	7164	7218	60 015	60 146	20 824	70 412	70 412
3062	7154	7185	—	60 015	60 030	20 824	21 583	21 586
3064	7153	7185	—	60 010	60 030	20 824	21 411	21 411
3083	7152	7185	—	60 015	60 030	20 824	—	21 842
3151	7153	7185	7218	60 015	60 146	20 824	70 156	70 156
3152	7153	7164	7219	60 015	60 146	20 824	70 156	70 156
3161	7154	7164	7218	60 015	60 030	20 824	21 783	21 783
3354	7153	7164	7218	60 019	60 030	20 824	22 313	22 313



1
7247 · Single-arm Pantograph ·
German Federal Railways' type
SBS 65 · Fastening screw included ·
Base measures same as 7218 · For
the 3357 and engine from the 2856
set

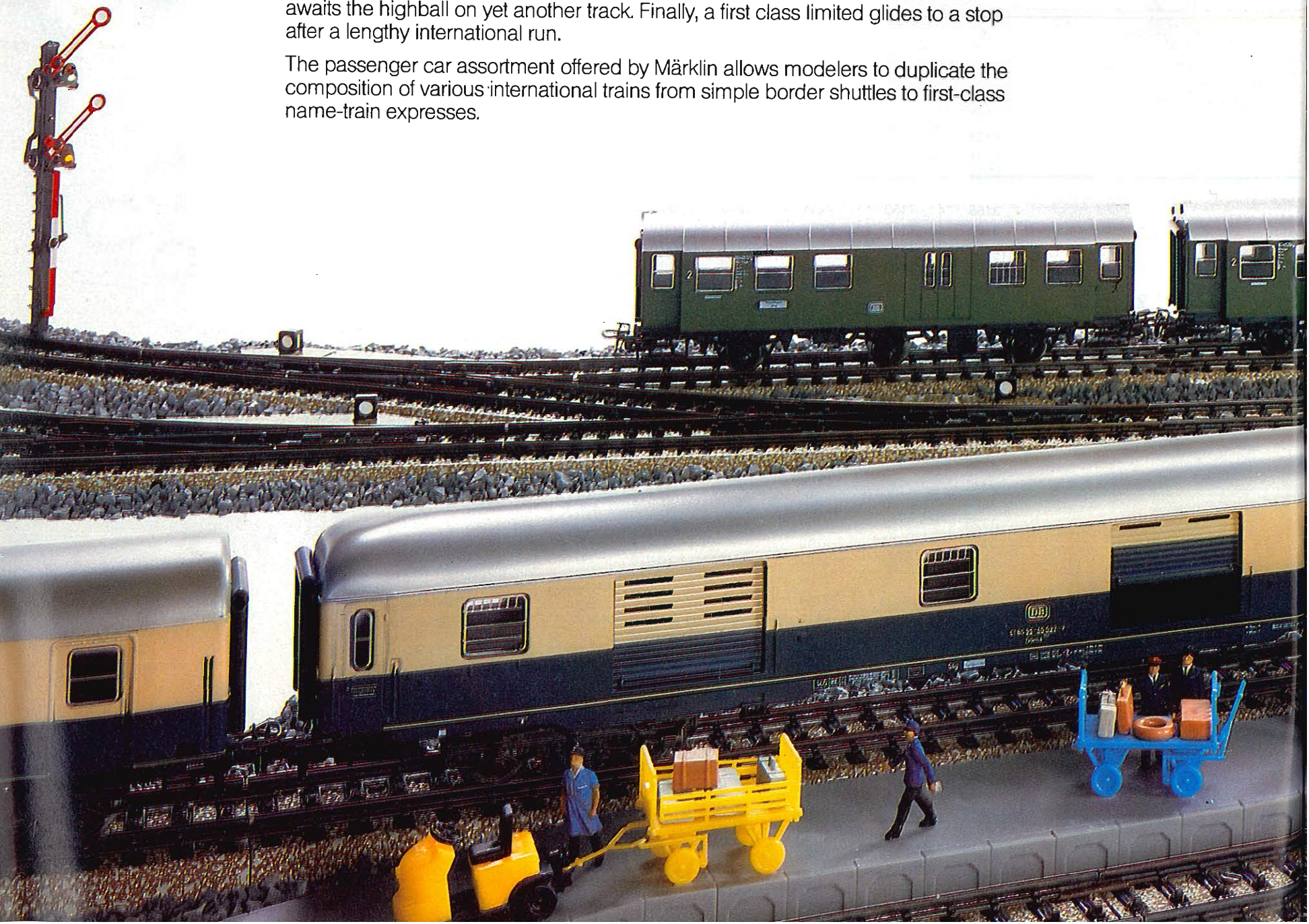
2
7207 · Scheren Pantograph · Type
SBS 10 · With fastening screw · Base
measures same as 7218 · For the
older German electrics (3049, 3157,
3322, 3366, etc.)



All Aboard!

The station: where people meet the railroad. Waiting passengers, others coming or going in a bustle of activity as a long-distance train with sleepers leaves for the horizon. Over on another track, a railbus gets the "all clear" for its jaunt up a scenic branch. Meanwhile, a switcher makes up a future train while a commuter train awaits the highball on yet another track. Finally, a first class limited glides to a stop after a lengthy international run.

The passenger car assortment offered by Märklin allows modelers to duplicate the composition of various international trains from simple border shuttles to first-class name-train expresses.





Special Rolling Stock

1 NEW

4190



1
4190 · "Umweltzug" (Environmental Train) · Includes: 3 coaches of the German Federal Railways' Environmental Information Train · Coach sides feature environmental motifs · Cars available only as a set · Individual items not available separately · Train length 72 cm (28-3/8") · Will accept interior lighting set 7329 (page 137)

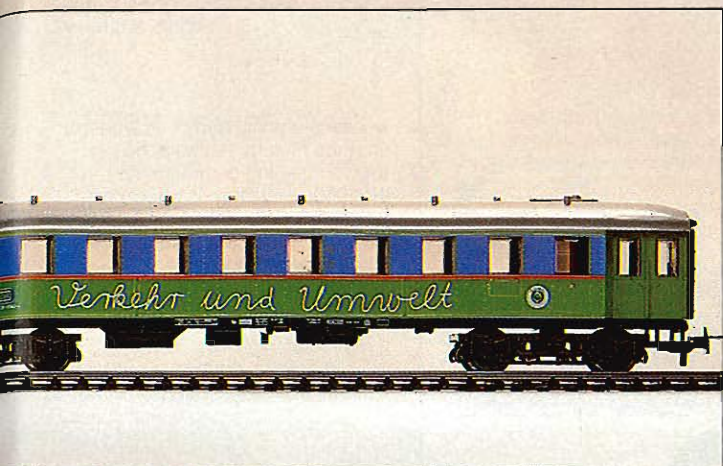
■ A cooperative educational program was organized by the German Federal Railways to better explain to the public the benefits of the environmentally friendly railroad. A graphic expression of this effort is the colorful Environmental Information Train. Comprised of modified coaches, the exhibition train concentrates on two main themes.

The first theme is that, thanks to modern construction methods, new railroad lines are far more environmentally sound than roads or highways. Further, a railroad requires less than half the amount of space required by highways. Also, a train operates only 1/4 the amount of energy

trucks need for moving goods. Finally, since most of the heavy mainlines in Germany are electrified, and the current is obtained from hydro-electric plants, the energy used by railroads does not foul the air.

The second theme illustrated how a new Biotope is established along railroad lines, offering living space to plants and animals.

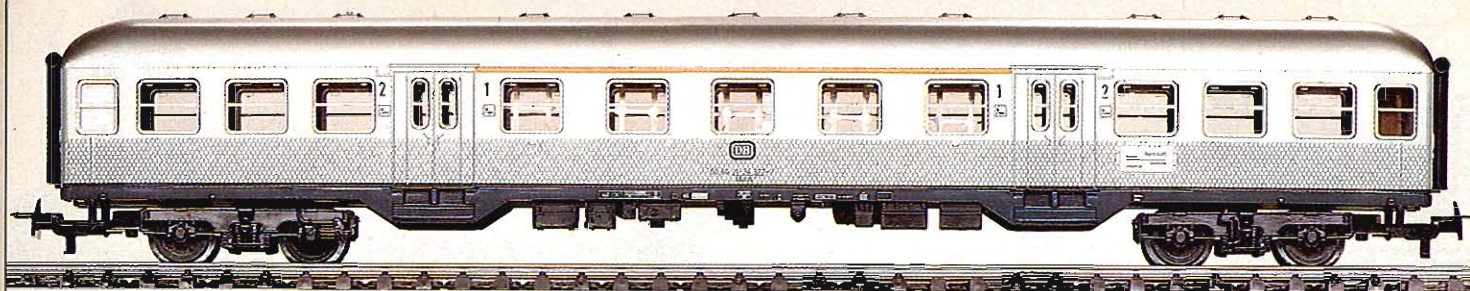




"Silverliners"

1

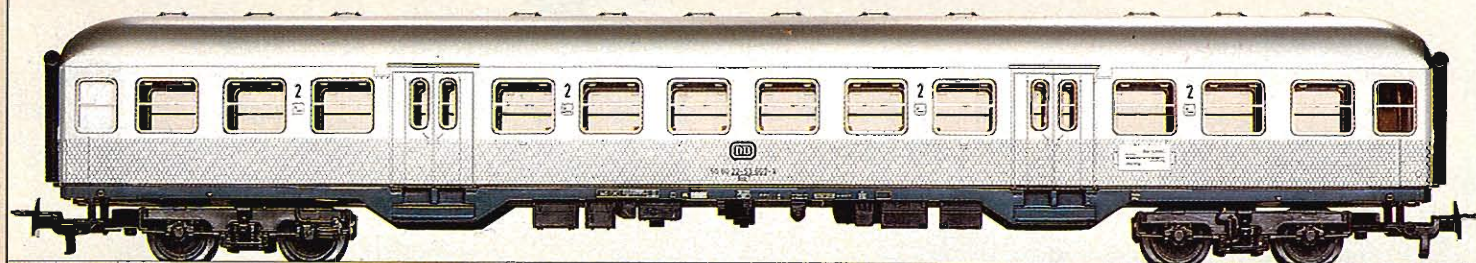
4158



■ After a few trial demonstrations, the German Federal Railways began replacing aging commuter cars in the 1960s with these 8-wheel cars having a length of 26.4 m (83' 7"). Because of the cars' unique silvery finish, they are nicknamed "Silberlinge" (Silverliners).

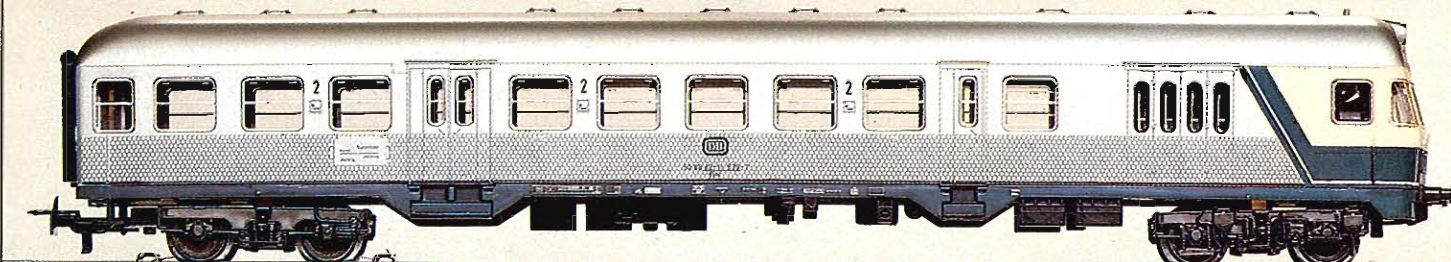
2

4159



3

4160



**German Federal Railways'
Commuter Cars**

1

4158 · Commuter Coach · Type ABnrzb 704 · 1st and 2nd class · Peacock-eye livery · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

2

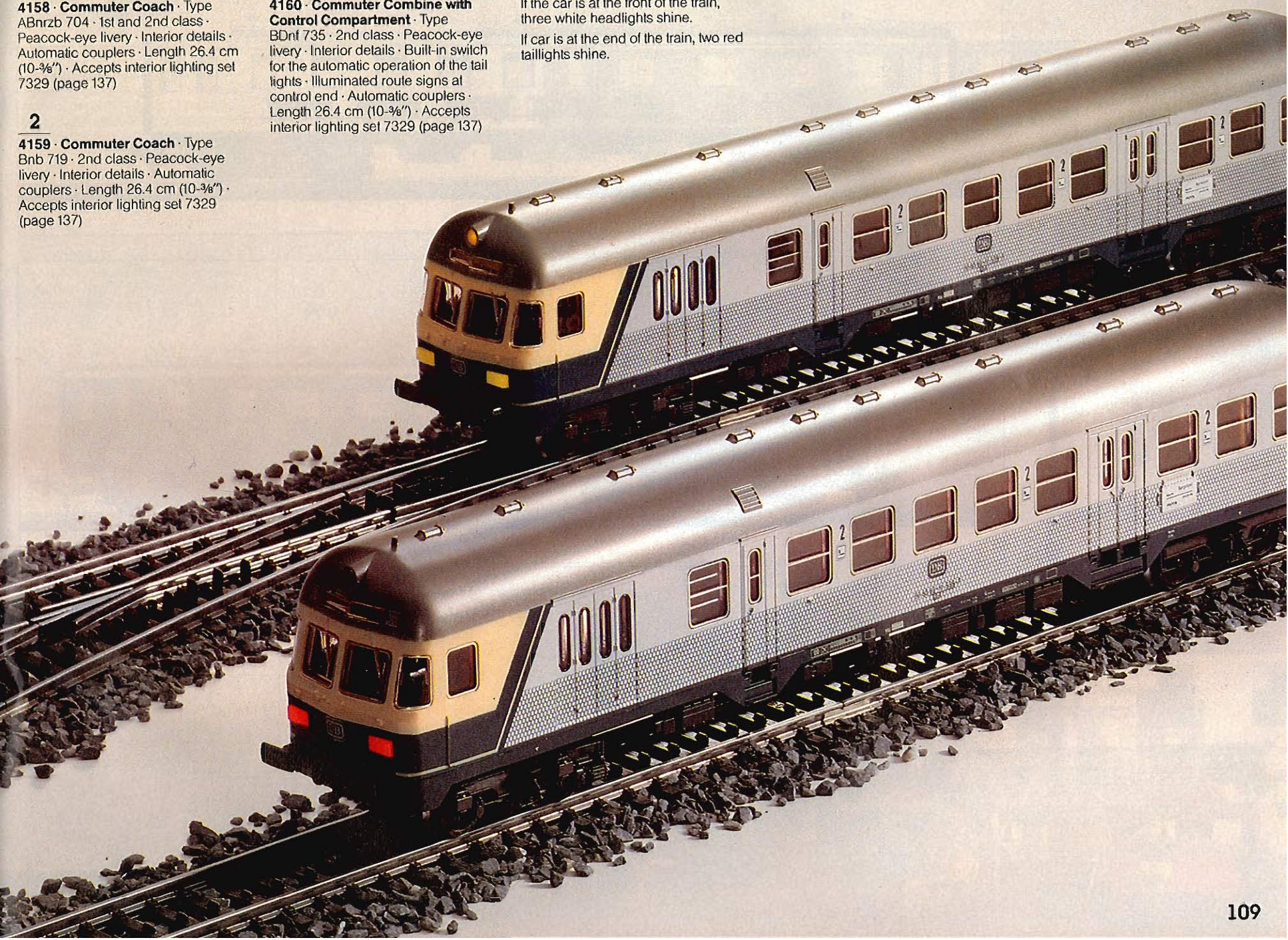
4159 · Commuter Coach · Type Bnb 719 · 2nd class · Peacock-eye livery · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

3

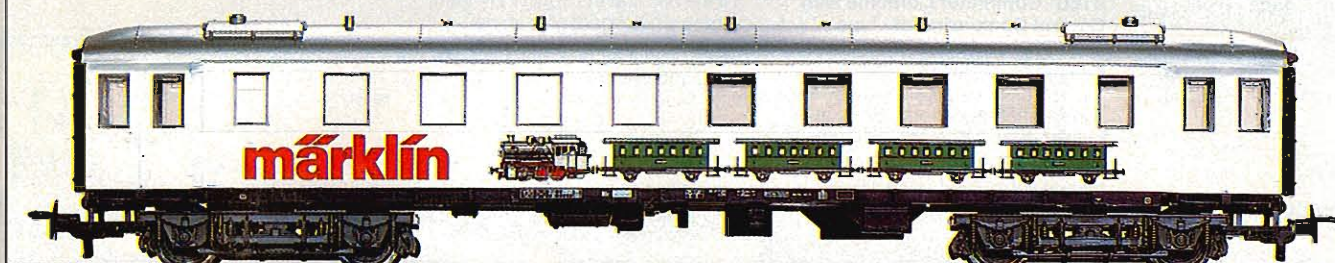
4160 · Commuter Combine with Control Compartment · Type BDnf 735 · 2nd class · Peacock-eye livery · Interior details · Built-in switch for the automatic operation of the tail lights · Illuminated route signs at control end · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

If the car is at the front of the train, three white headlights shine.

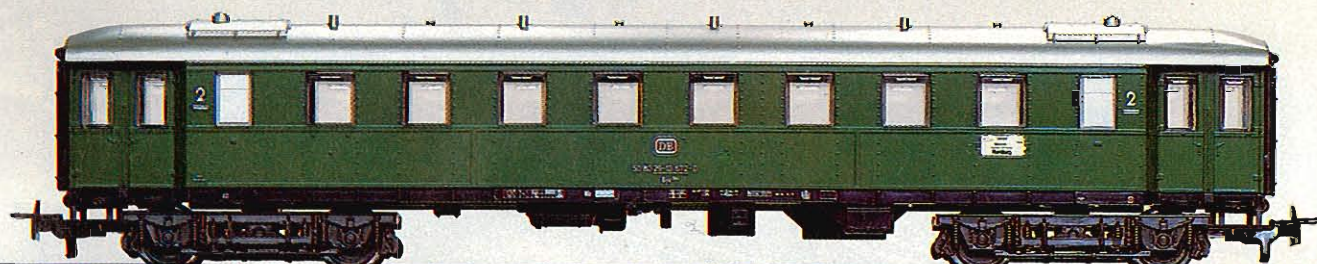
If car is at the end of the train, two red taillights shine.



1 NEW
4122



2 NEW
4134



1

4122 · Exhibition Car · German Federal Railways' type D(Exhibition) 997 · Automatic couplers · Length 23 cm (9-1/16") · Accepts interior lighting set 7329 (page 137)

2

4134 · Coach · German Federal Railways' class Bye 664 · 2nd class · Interior details · Automatic couplers · Length 23 cm (9-1/16") · Accepts interior lighting set 7329 (page 137)

German Federal Railways' Rebuilds

3

4067 · Coach · Type AB3yge⁷⁵⁶ · 1st and 2nd class · RELEX-couplers (pages 40/138) · Length 15.2 cm (6") · Accepts interior lighting set 7074 (page 137)

4

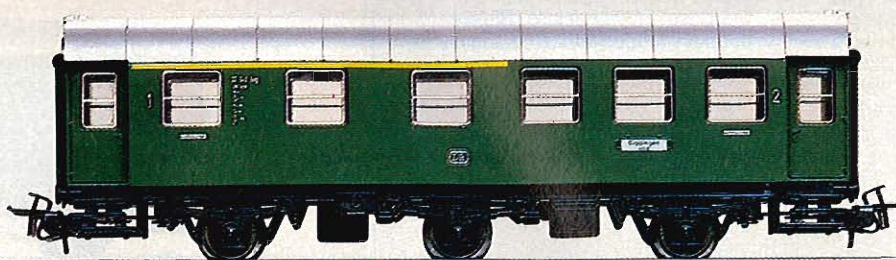
4079 · Coach · Type B3yge⁷⁶¹ · 2nd class · RELEX-couplers (pages 40/138) · Length 15.2 cm (6") · Accepts interior lighting set 7074 (page 137)

5

4080 · Combine · Type BD3yge⁷⁶⁶ · 2nd class · RELEX-couplers (pages 40/138) · Length 15.2 cm (6") · Accepts interior lighting set 7074 (page 137)

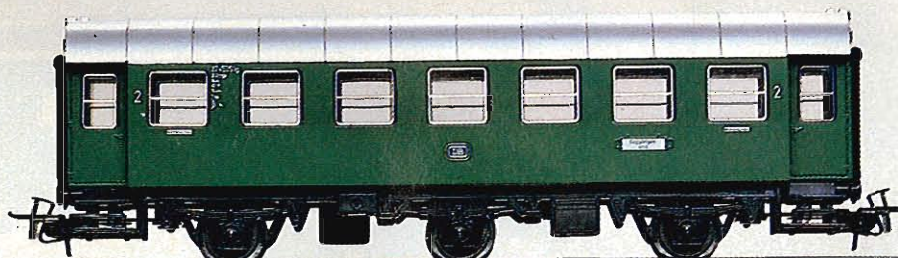
3

4067



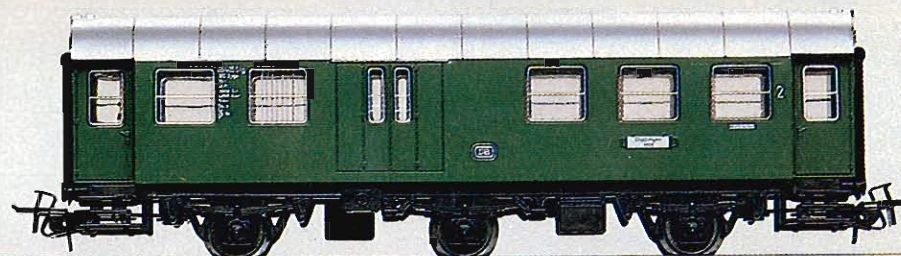
4

4079



5

4080



“Donnerbüchsen”

■ Shortly after establishing the former German State Railways, studies were undertaken to design a standardized passenger car to replace the assorted (and aging) cars inherited from the old provincial lines. Originally, the new cars had wood roofs and wooden interior walls. Later versions were all-steel, such as the 29s (Märklin's prototype). Because these cars were noisy when operated, they acquired the nickname “Donnerbüchsen” (Rattling Crates).

Standard Coaches of the former German State Railways

1

4100 · Coach · Type BCi 29 · 2nd and 3rd class · Interior details · RELEX-couplers (pages 40/138) · Length 16 cm (6-5/16")

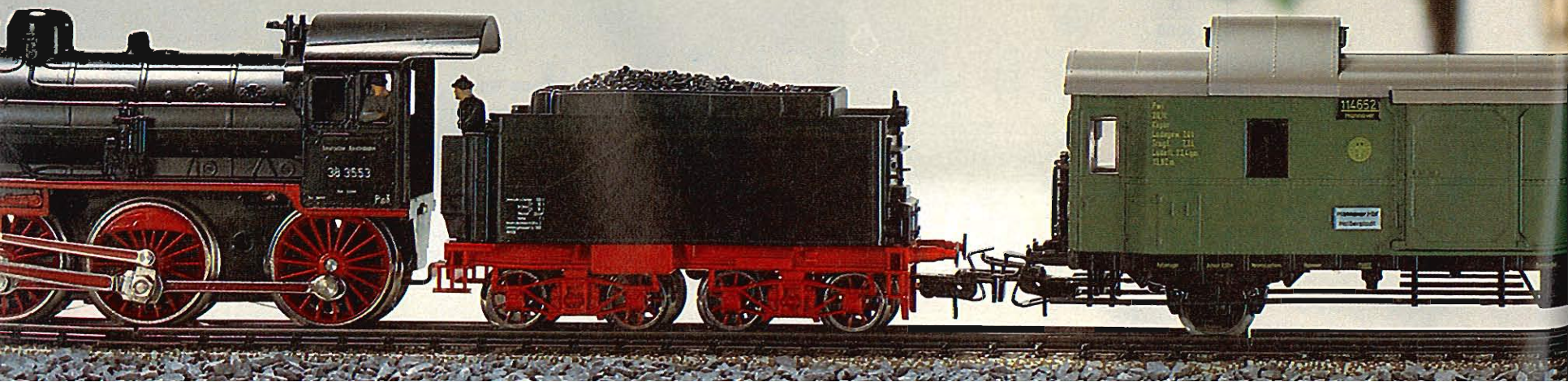
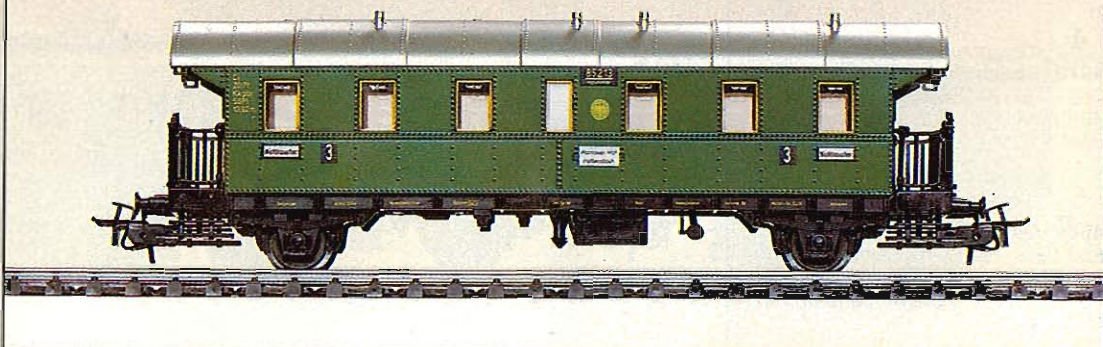
2

4101 · Coach · Type Ci 29 · 3rd class · Interior details · RELEX-couplers (pages 40/138) · Length 16 cm (6-5/16")

1
4100

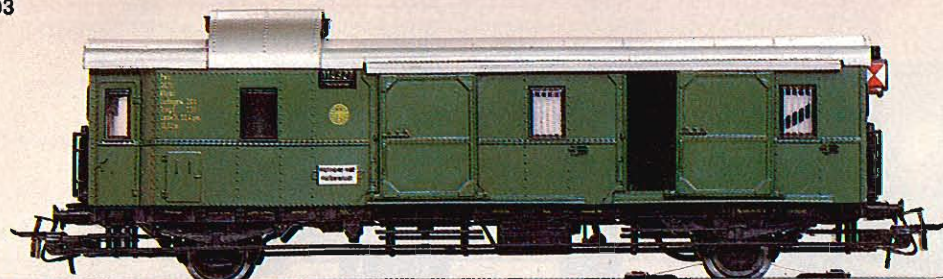


2
4101



3

4102
4103




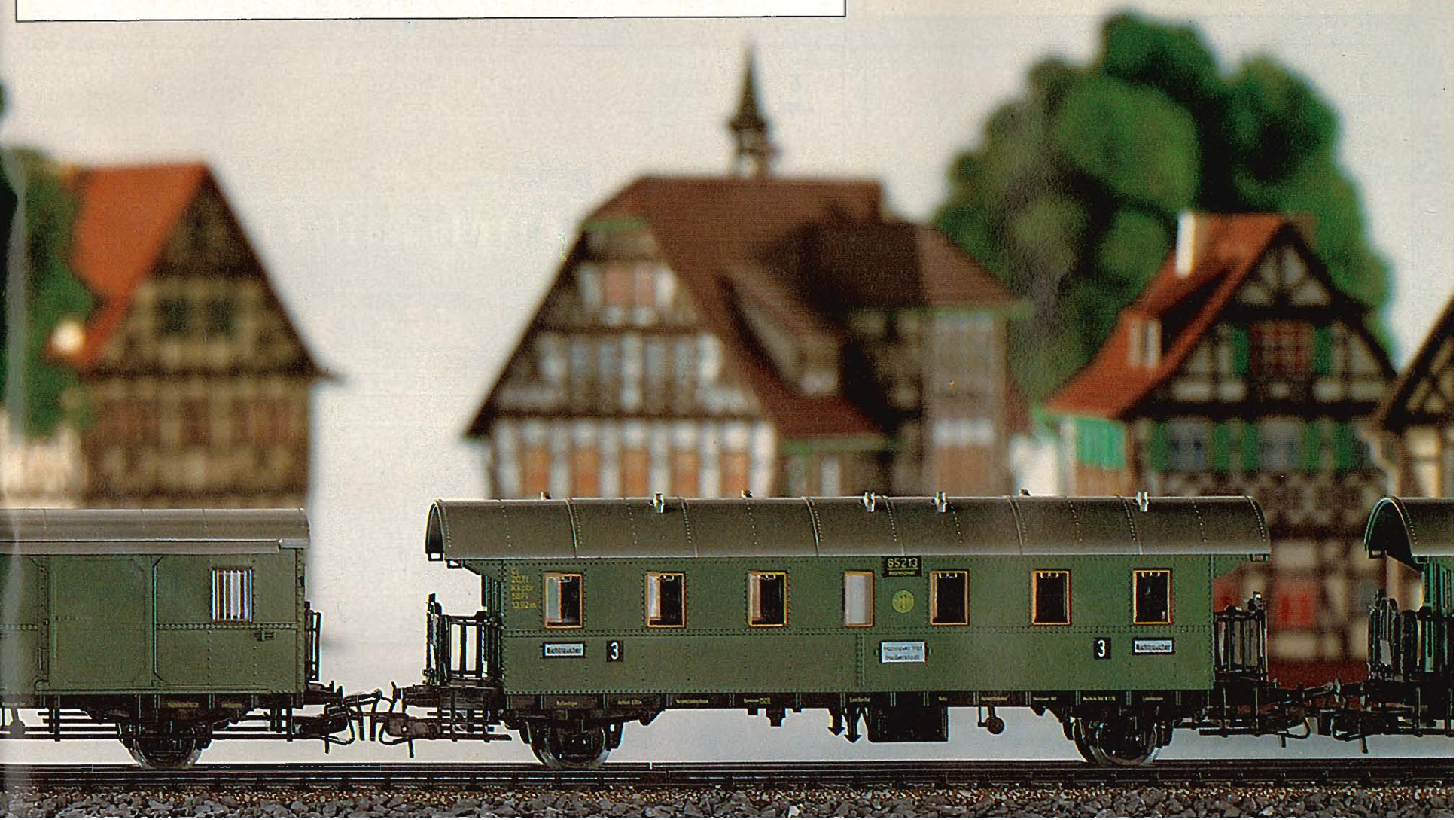
3

4102 · Baggage Car · Type Pwi 30 ·
4 sliding doors · Interior details ·
RELEX-couplers (pages 40/138) ·
Length 16 cm (6-5/16")

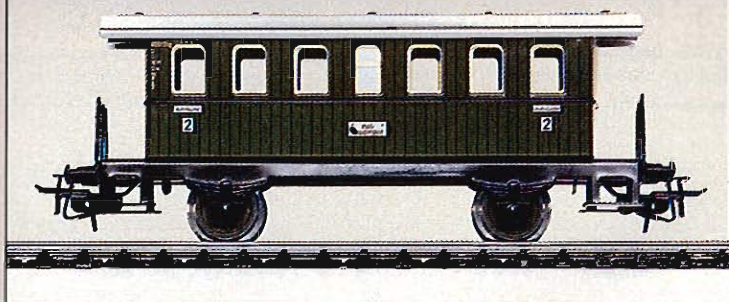
3

4103 · Baggage Car · Same as 4102,
but includes illuminated end markers

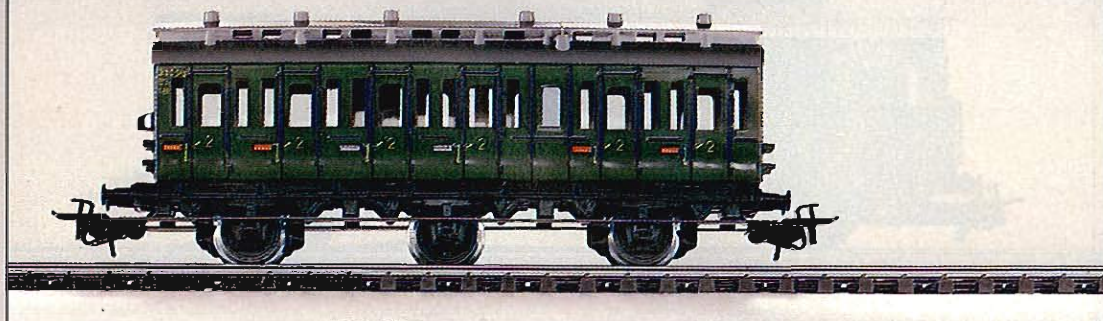
 = 31051



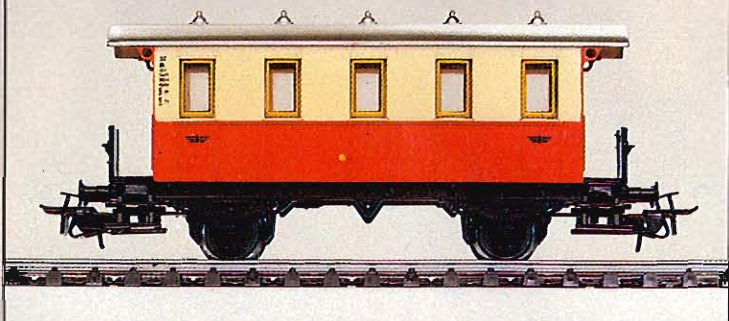
1
4040



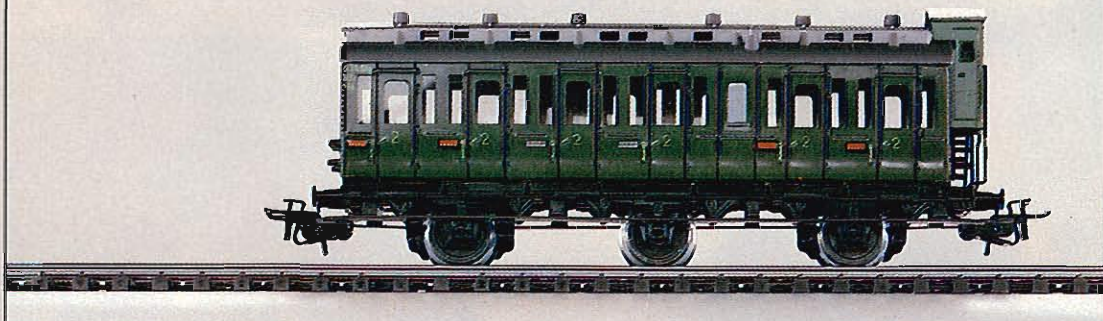
4
4004



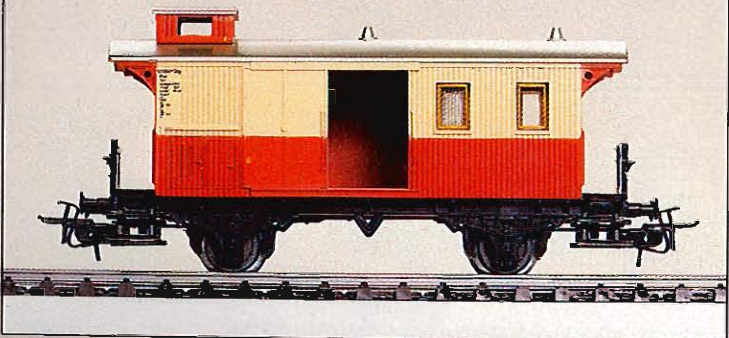
2
4107



5
4005



3
4108



Coaches

1

4040 · Coach · 2nd class · RELEX-couplers (pages 40/138) · Length 11.5 cm (4-1/2")

Cars of Privately owned Railways

2

4107 · Coach · Interior details · RELEX-couplers (pages 40/138) · Length 11 cm (4-3/8") · Accepts interior lighting set 7323 (page 137)

3

4108 · Baggage Car · With conductor's cupola · RELEX-couplers (pages 40/138) · Length 11 cm (4-3/8") · Accepts interior lighting set 7323 (page 137)

Prussian Coaches

4

4004 · Compartment Car · RELEX-couplers (pages 40/138) · Length 13 cm (5-1/8") · Accepts interior lighting set 7074 (page 137)

5

4005 · Compartment Car · With Brakeman's cab · RELEX-couplers (pages 40/138) · Length 13 cm (5-1/8") · Accepts interior lighting set 7074 (page 137)

French (SNCF) Passenger Cars

6 France

4104 · Coach · Type B²C³ 1/2 t mfp, former German State Railways' class BCi 29 · 2nd and 3rd class · Interior details · RELEX-couplers (pages 40/138) · Length 16 cm (6-5/16")

7 France

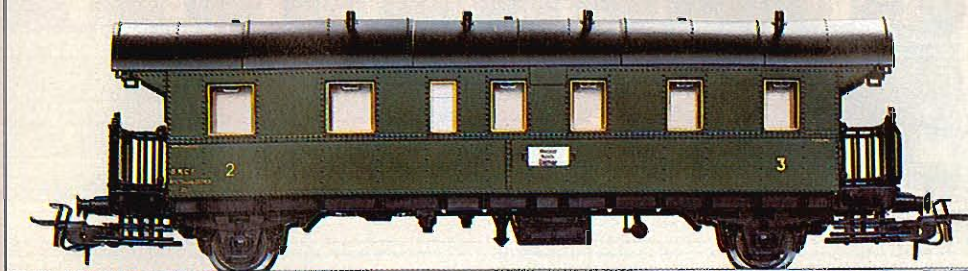
4105 · Coach · Type C⁶ t mfp, former German State Railways' class Ci 29 · 3rd class · Interior details · RELEX-couplers (pages 40/138) · Length 16 cm (6-5/16")

8 France

4106 · Baggage Car · Type Dmp, former German State Railways' class Pwi 30 · 4 sliding doors · Interior details · RELEX-couplers (pages 40/138) · Length 16 cm (6-5/16")

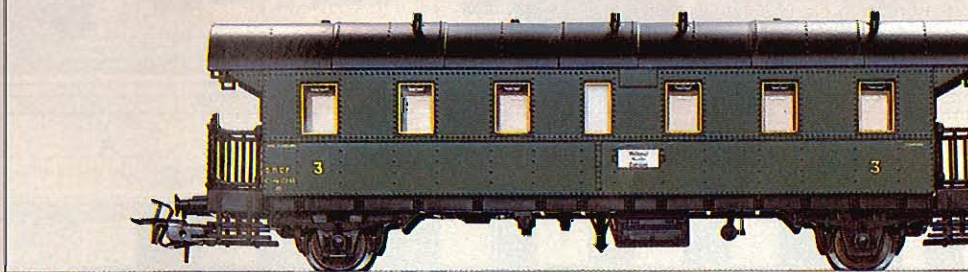
6 NEW

4104



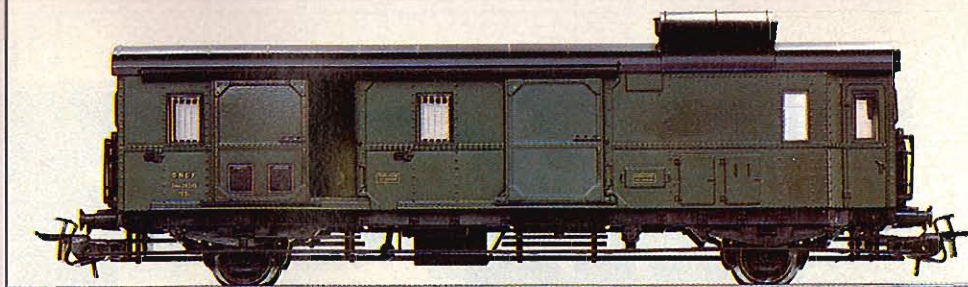
7 NEW

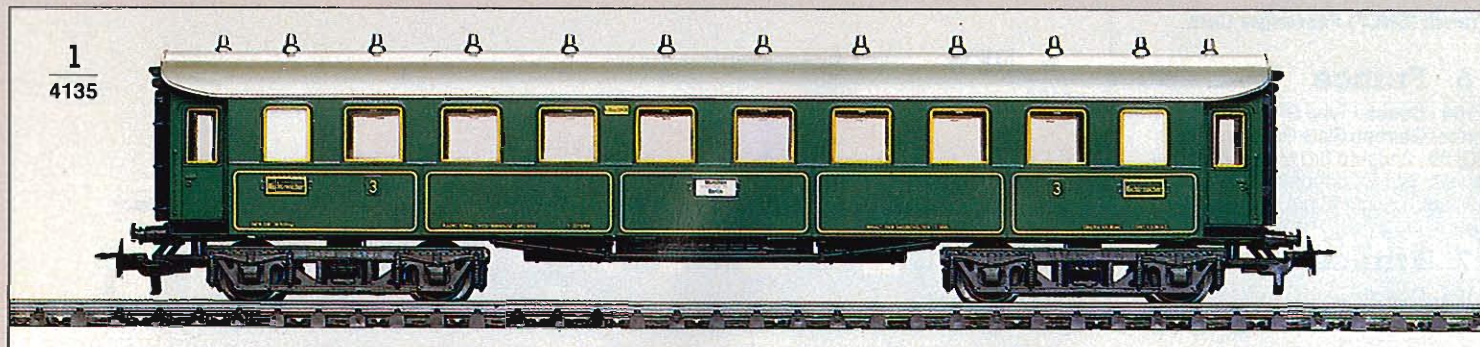
4105



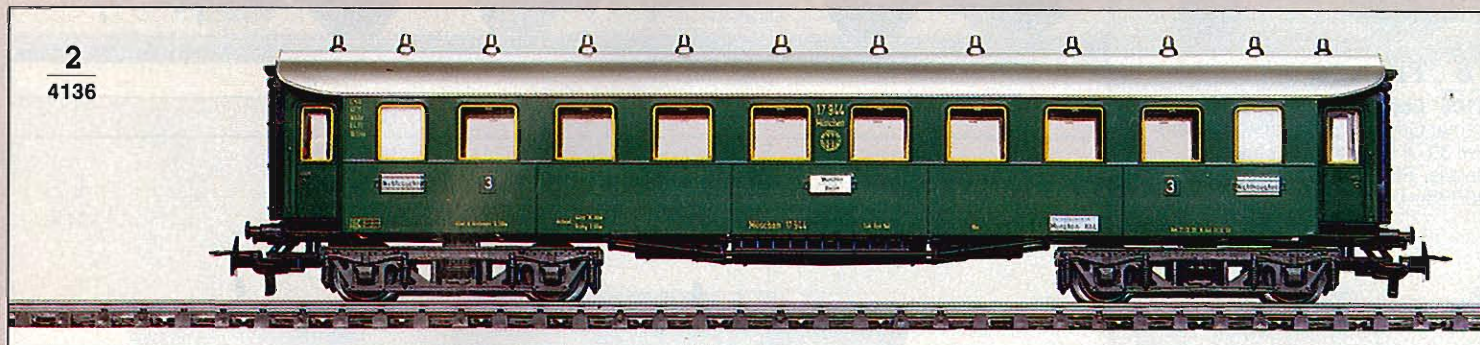
8 NEW

4106

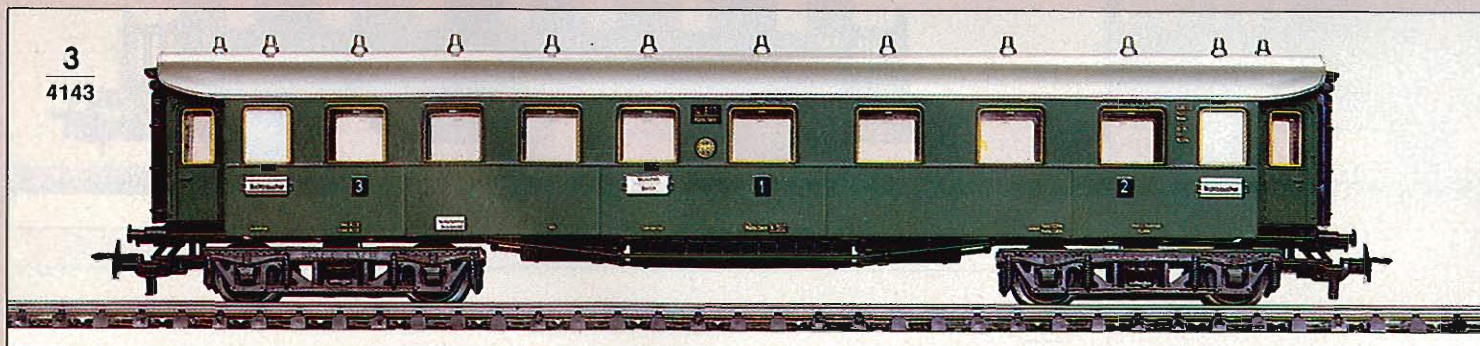




Former Royal Bavarian Railways' Express Coach

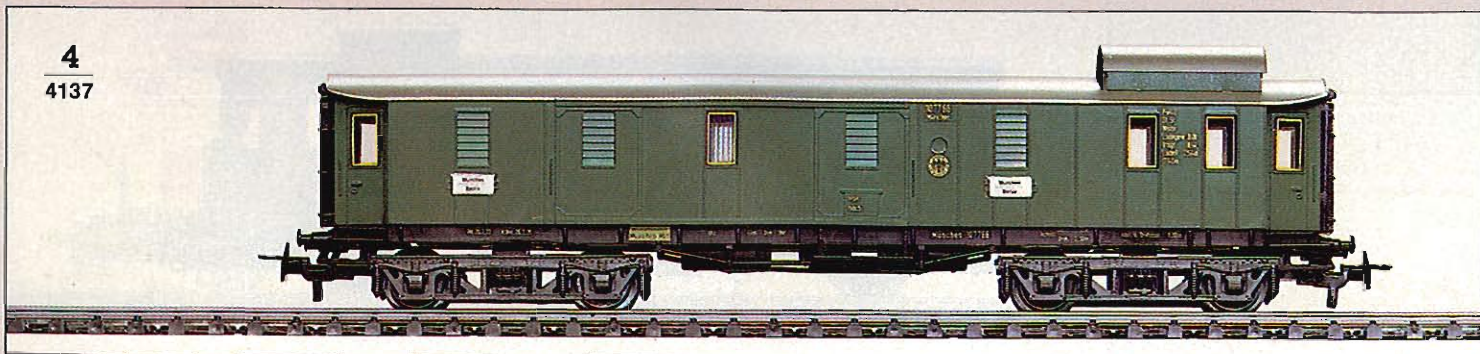


Former German State Railways Older Style Express Coaches



2
4136 · Express Coach · Type C4ü bay 11 · 3rd class · Interior details · Automatic couplers · Length 22 cm (8-5/8") · Accepts interior lighting set 7329 (page 137)

3
4143 · Express Coach · Type ABC4ü bay 11 · 1st, 2nd and 3rd class · Interior details · Automatic couplers · Length 23.2 cm (9-1/8") · Accepts interior lighting set 7329 (page 137)

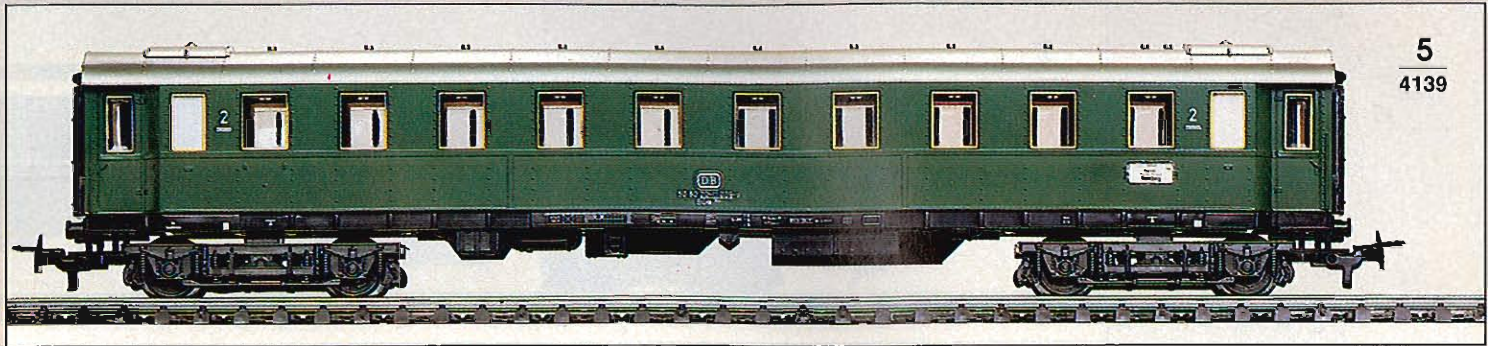


4
4137 · Baggage Car · Type Pw4ü bay 09 · Automatic couplers · Length 20 cm (7-7/8") · Accepts interior lighting set 7329 (page 137)

**Standard Express Coaches of the
German Federal Railways**

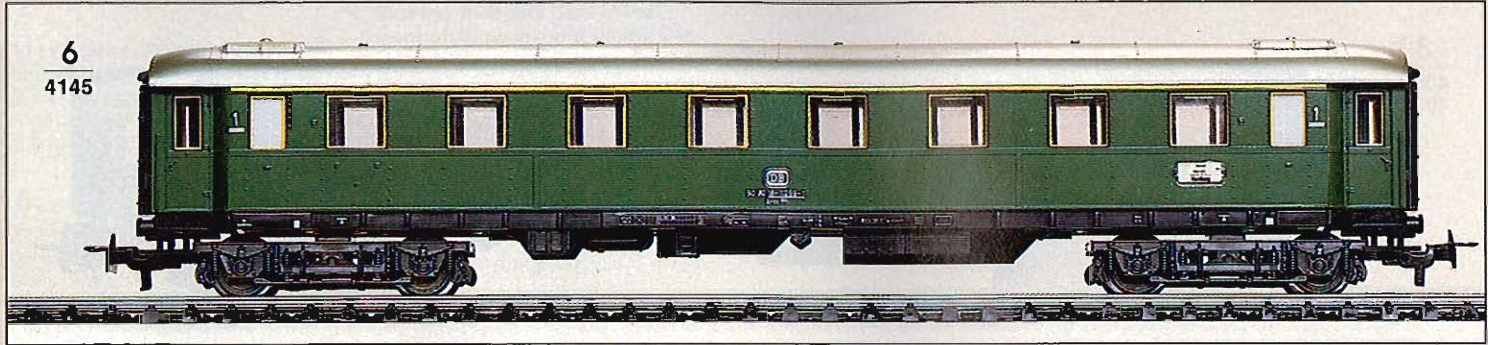
5

4139 · Express Coach · Type Büe³⁵⁴ ·
2nd class · Interior details · Görlitz
trucks · Automatic couplers · Length
24.3 cm (9-7/16") · Accepts interior
lighting set 7329 (page 137)



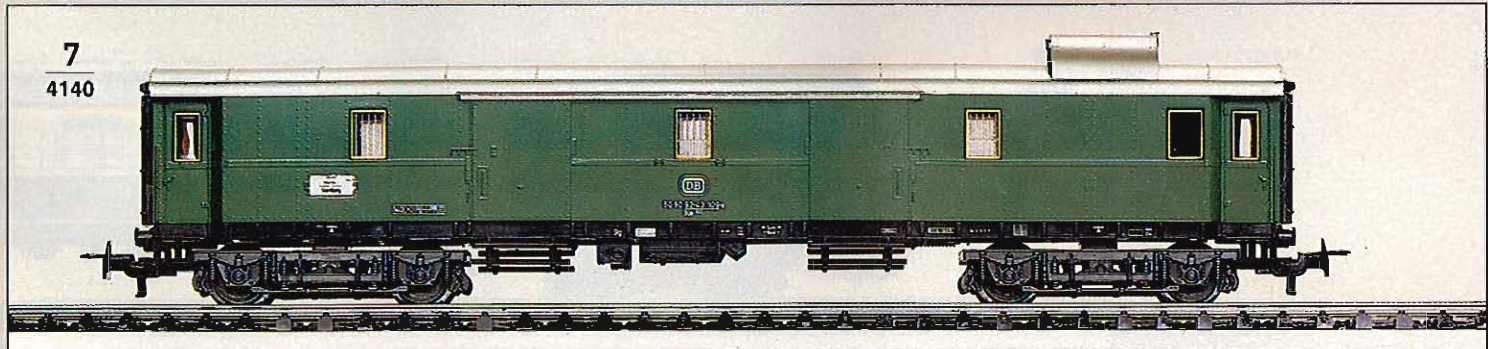
6

4145 · Express Coach · Type
Ayse⁶⁰⁴ · 1st class · Interior details ·
Görlitz trucks · Automatic couplers ·
Length 24.3 cm (9-7/16") · Accepts
interior lighting set 7329 (page 137)



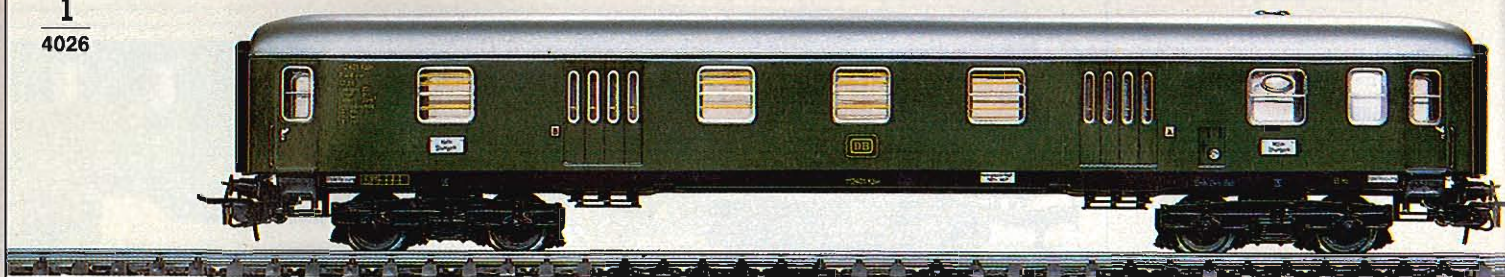
7

4140 · Baggage Car · Type Düe⁹³² ·
Görlitz trucks · Automatic couplers ·
Length 22 cm (8-3/4") · Accepts interior
lighting set 7329 (page 137)



Express Coaches 24 cm (9-1/2")

1
4026



German Federal Railways' Express Coaches

1

4026 · Baggage Car · Type Dyl⁹⁶¹
(ex-Dym 961) · RELEX-couplers
(pages 40/138) · Length 24 cm
(9-1/2") · Accepts interior lighting sets
7077 + 7198 (page 137)

2

4052 · Express Coach · Type Bm²³²
(ex-Büm 232) · 2nd class · Interior
details · RELEX-couplers (pages
40/138) · Length 24 cm (9-1/2") ·
Accepts interior lighting sets
7077 + 7198 (page 137)

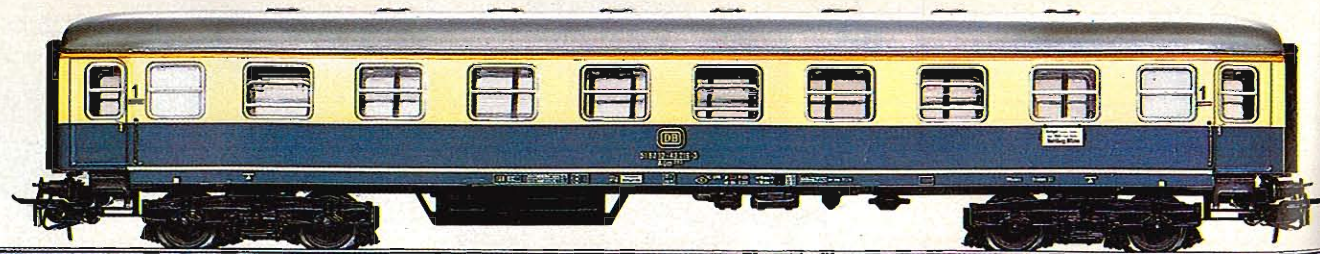
3
4051
4053

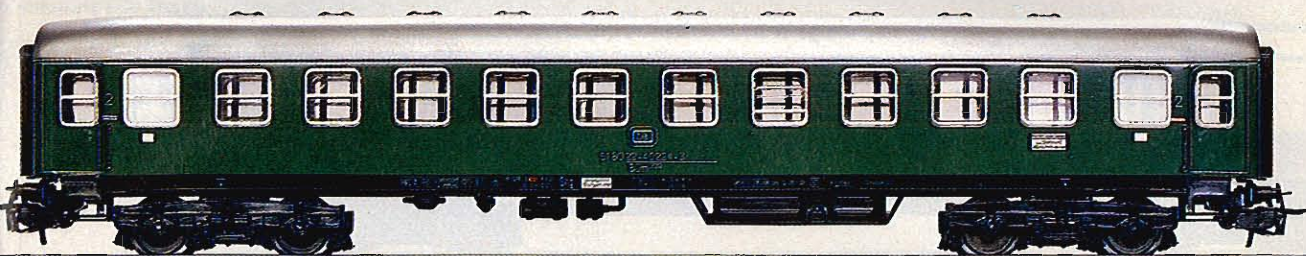


4
4054



5
4111






2
4052

3

4051 · Express Coach · Type Am²⁰²
(ex-Aüm 202) · 1st class · Interior
details · RELEX-couplers (pages
40/138) · Length 24 cm (9-½") ·
Accepts interior lighting sets
7077 + 7198 (page 137)

3

4053 · Express Coach · Same as
4051, but includes illuminated end
markers · Accepts interior lighting set
7077 (page 137)

 = 7175

4

4054 · Diner · Type WRm¹³²
(ex-WRümh 132) · Interior details ·
RELEX-couplers (pages 40/138) ·
Length 24 cm (9-½") · Accepts interior
lighting set 7320 (page 137)

5

4111 · Express Coach · Type Am²⁰²
(Aüm 202) · 1st class · Interior details ·
RELEX-couplers (pages 40/138) ·
Length 24 cm (9-½") · Accepts interior
lighting sets 7077 + 7198 (page 137)

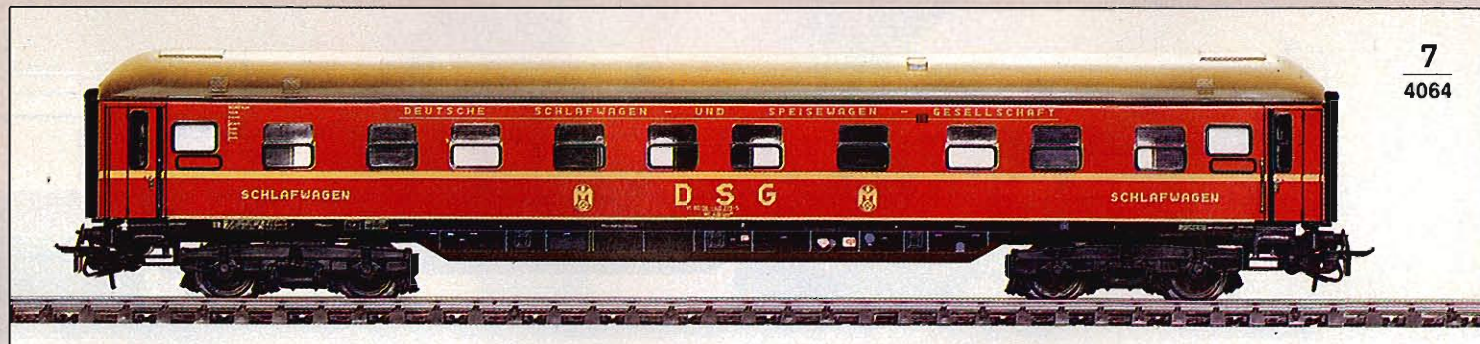
6

4112 · Express Coach · Type Bm²³²
(ex-Büm 232) · 2nd class · Interior
details · RELEX-couplers (pages
40/138) · Length 24 cm (9-½") ·
Accepts interior lighting sets
7077 + 7198 (page 137)

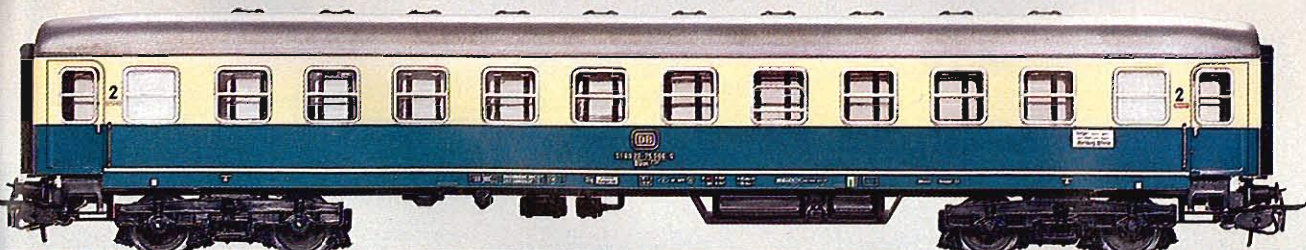
Express Sleeping Cars of the German Sleeping and Dining Car Co. (DSG)

7

4064 · Sleeping Car · Type WLAbm¹⁷⁴
(ex-WLABüm 174) · 33200 class
sleeper · 1st and 2nd class · RELEX-
couplers (pages 40/138) · Length
24 cm (9-½") · Accepts interior light-
ing set 7320 (page 137)



7
4064

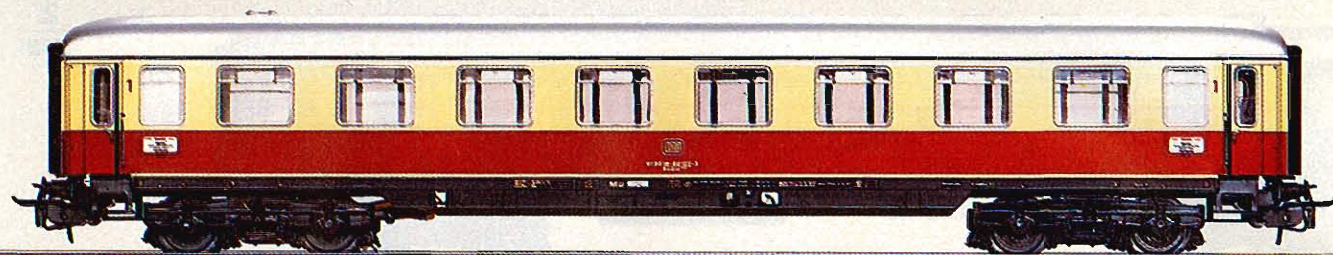


6
4112

Express Coaches 24 cm (9-1/2")

1

4085
4089



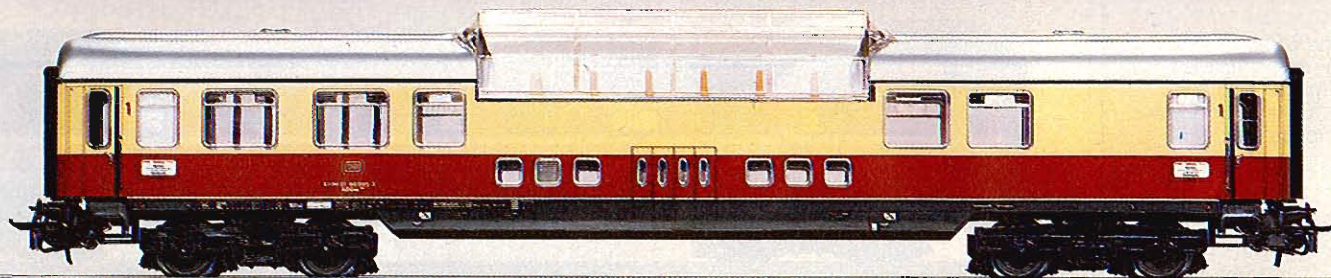
2

4087



3

4090



German Federal Railways'
TEE Coaches – Also Used on
Intercity (IC) Trains

1
4085 · TEE/IC Compartment Car · Type Avmh¹¹¹ (ex-Avüm 111) · 1st class · Interior details · RELEX-couplers (pages 40/138) · Length 24 cm (9-½") · Accepts interior lighting set 7320 (page 137)

1
4089 · TEE/IC Compartment Car · Same as 4085, but includes interior lighting and illuminated end markers
☞ = 7175 ☞ = 60015

2
4087 · TEE/IC Diner · Type WRmh¹³² (ex-WRümh 132) · Interior details · RELEX-couplers (pages 40/138) · Length 24 cm (9-½") · Accepts interior lighting set 7320 (page 137)

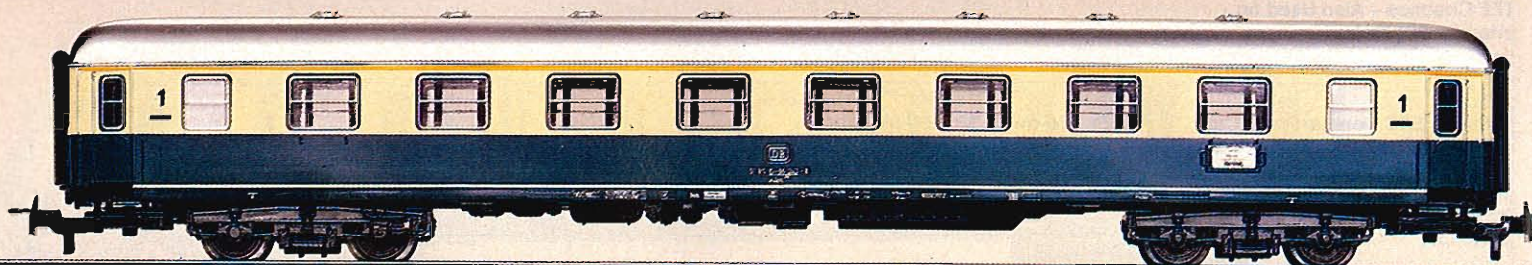
3
4090 · TEE Dome Car · Type ADm¹⁰¹ (ex-ADüm 101) · 1st class · Interior details · RELEX-couplers (pages 40/138) · Length 24 cm (9-½") · Accepts interior lighting set 7322 (page 137)

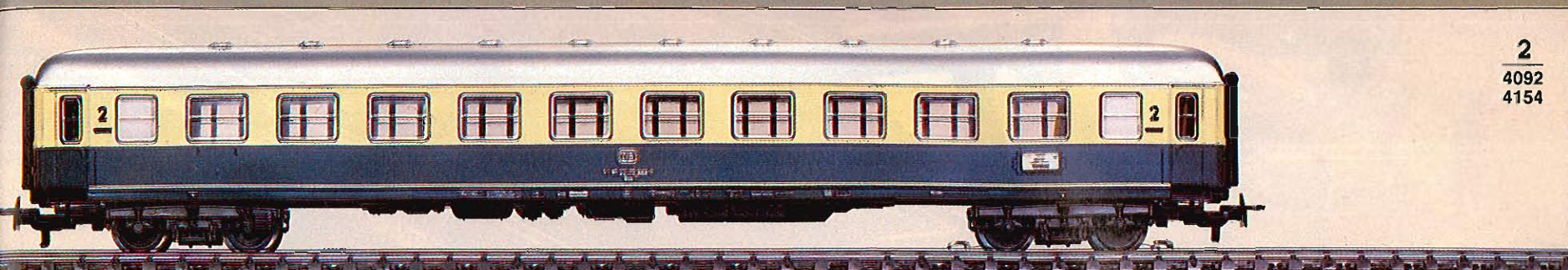
7224 · Re-railer · Molded plastic · Ideal for getting multi-axle cars on the tracks · Length 30 cm (1') · Height 2.5 cm (1")



Express Coaches 27 cm (10-5/8")

1
4091





2
4092
4154



3 NEW
4175




4 NEW
4176

German Federal Railways' Express Coaches

1
4091 · Express Coach · Type Am²⁰³
(ex-Aüm 203) · 1st class · Interior
details · Automatic couplers · Length
27 cm (10-5/8") · Accepts interior light-
ing set 7329 (page 137)

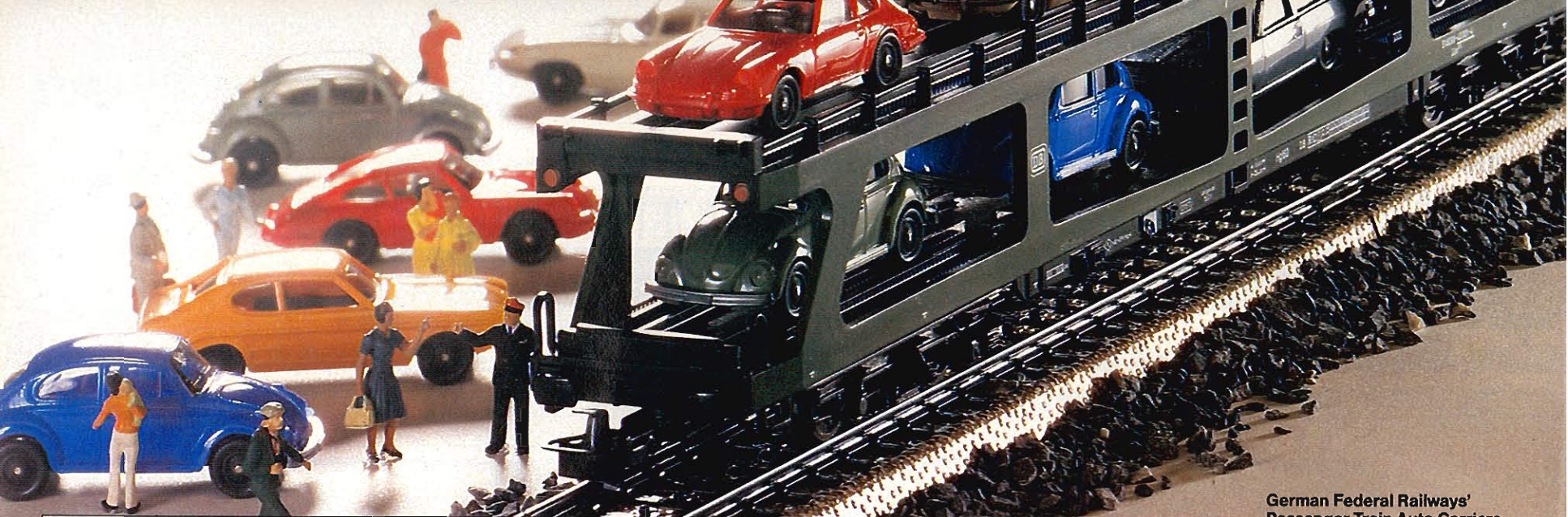
2
4092 · Express Coach · Type Bm²³⁴
(ex-Büm 234) · 2nd class · Interior
details · Automatic couplers · Length
27 cm (10-5/8") · Accepts interior light-
ing set 7329 (page 137)

2
4154 · Express Coach · Same as
4092, but with illuminated end
markers

 = 41494

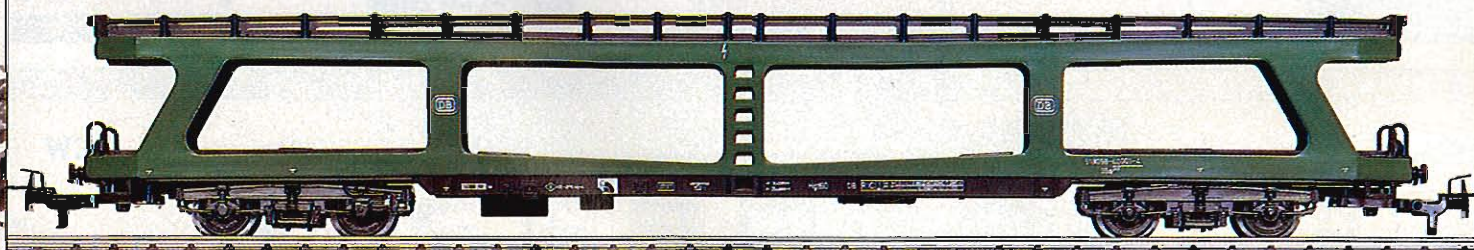
3
4175 · Express Coach · Sociability
car, type Wgm 842.0 · Interior
details · Automatic couplers · Length
27 cm (10-5/8") · Accepts interior light-
ing set 7329 (page 137)

4
4176 · Express Coach · Sociability
car, type Wgm 842.1 · Lettered
"Deutsche Weinstraße" (German Wine
Road) · Interior details · Automatic
couplers · Length 27 cm (10-5/8") ·
Accepts interior lighting set 7329
(page 137)

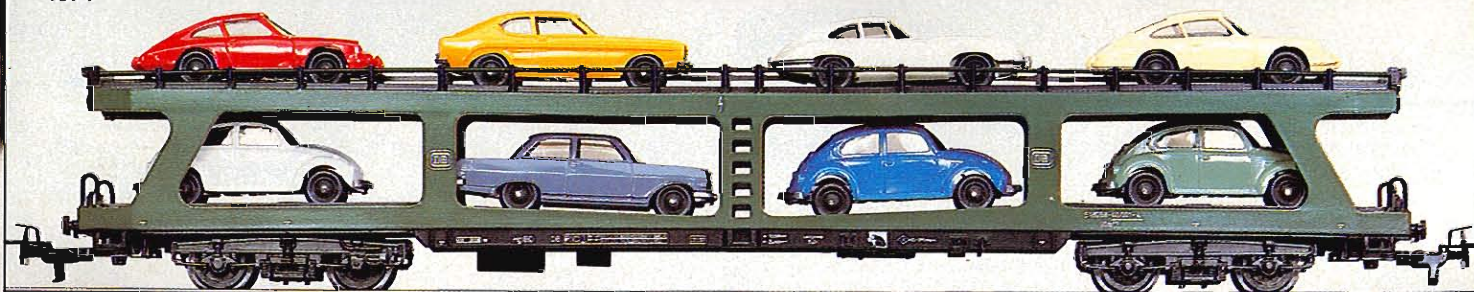


1
4084

The Marklin R-Way Club Ltd.



2
4074



German Federal Railways' Passenger Train Auto Carriers

1
4084 · Auto Carrier · Type DDm⁹¹⁵.
Without autos · RELEX-couplers
(pages 40/138) · Length 26.4 cm
(10-3/8")

2
4074 · Auto Carrier · Type DDm⁹¹⁵.
Loaded with 8 Wiking autos · RELEX-
couplers (pages 40/138) · Length
26.4 cm (10-3/8")

German Federal Railways' Express Coaches

3
4094 · Diner · Type WRmh¹³²
(ex-WRümh 132) · Interior details ·
Automatic couplers · Length 27 cm
(10-5/8") · Accepts interior lighting set
7329 (page 137)

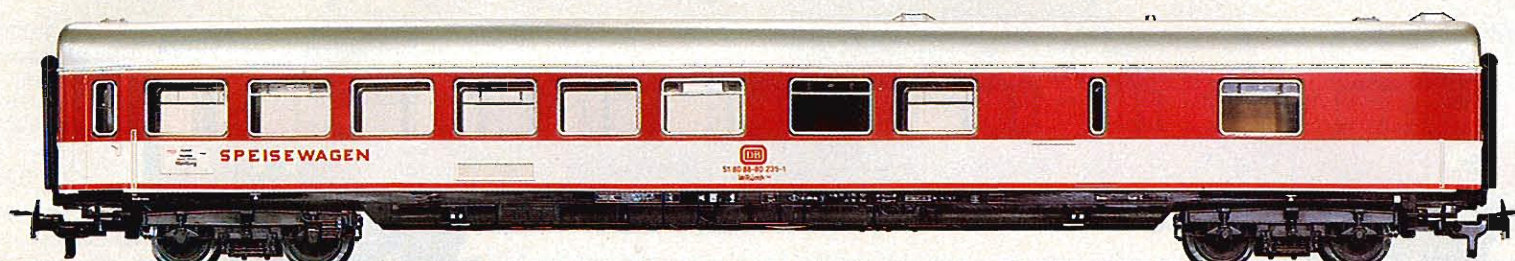
4
4093 · Baggage Car · Type Dm⁹⁰²
(ex-Düms 902) · Operating baggage
doors on both sides · Automatic
couplers · Length 27 cm (10-5/8") ·
Accepts interior lighting set 7329
(page 137)

Mail Car of the German Federal Postal Service

5
4157 · Mail Car · Type Post
mrz 73076 · Interior details · Automatic
couplers · Length 26.4 cm (10-3/8") ·
Accepts interior lighting set 7329
(page 137)

3

4094



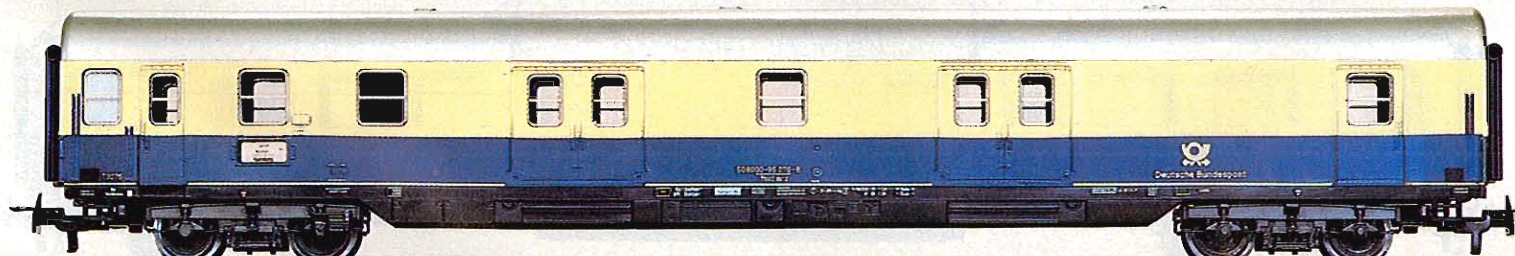
4

4093



5

4157



Express Coaches 27 cm (10⁵/₈'')

1

4095
4098



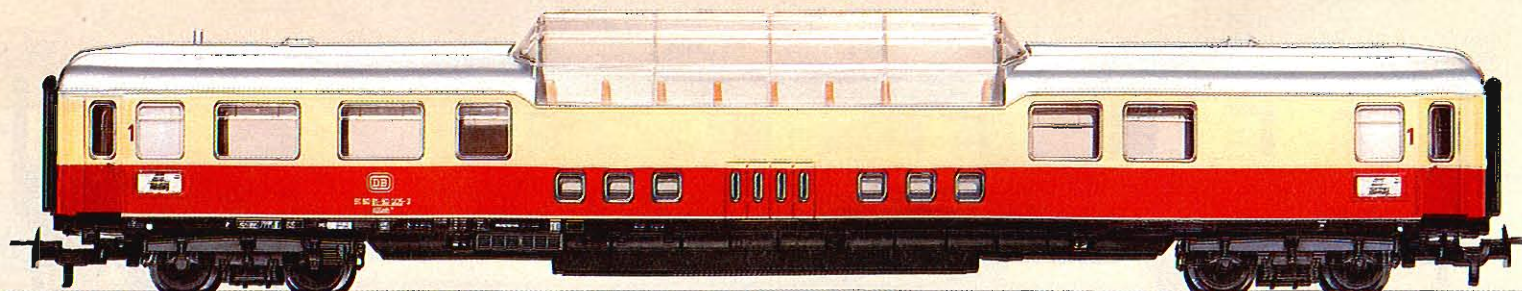
2

4096




3

4099



German Federal Railways'
TEE Cars – Also Used on
Intercity (IC) Trains

1
4095 · TEE/IC Compartment Car · Type Avmh¹¹¹ · 1st class · Interior details · Automatic couplers · Length 27 cm (10-5/8") · Accepts interior lighting set 7329 (page 137)

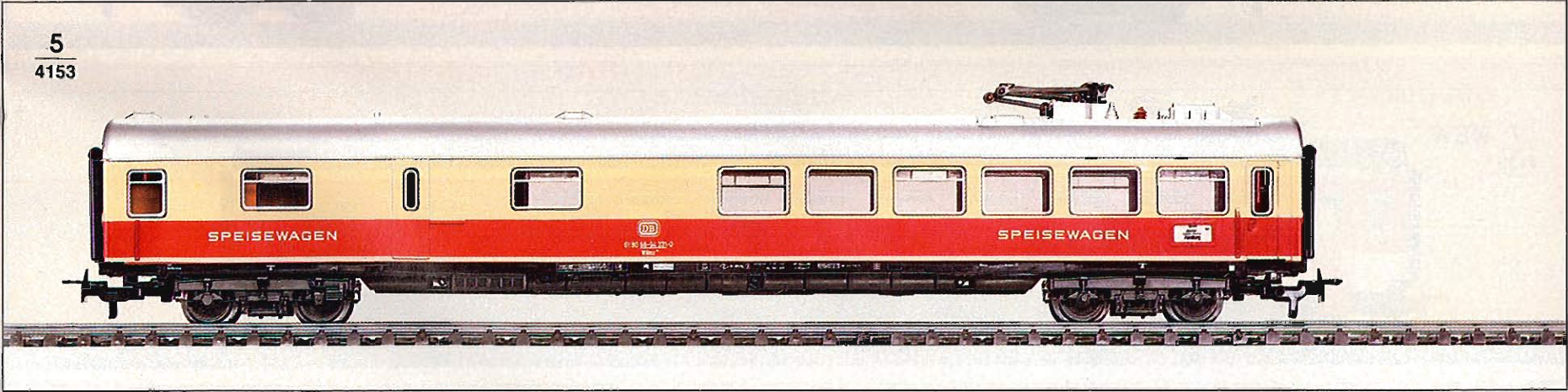
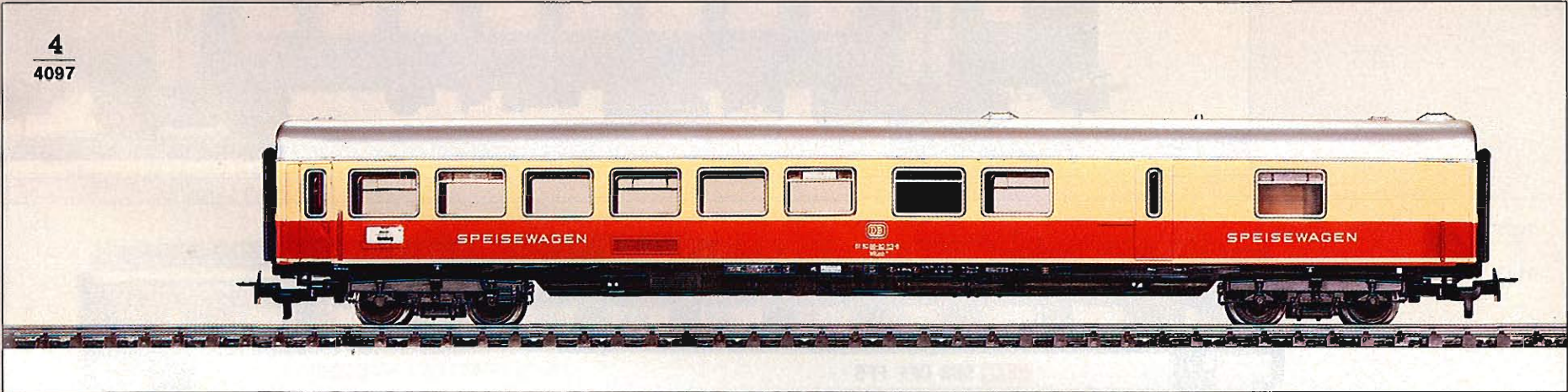
1
4098 · TEE/IC Compartment Car · Same as 4095, but with illuminated end markers
 = 41494

2
4096 · TEE/IC American-Style Coach · Type Aprm¹²² · 1st class · Interior details · Automatic couplers · Length 27 cm (10-5/8") · Accepts interior lighting set 7329 (page 137)

3
4099 · TEE Dome Car · Type ADm¹⁰¹ · 1st class · Interior details · Automatic couplers · Length 27 cm (10-5/8") · Accepts interior lighting set 7329 (page 137)

4
4097 · TEE/IC Diner · Type WRmh¹³² (ex-WRümh 132) · Interior details · Automatic couplers · Length 27 cm (10-5/8") · Accepts interior lighting set 7329 (page 137)

5
4153 · TEE/IC Diner · Type WRmz 135 · Interior details · Automatic couplers · Length 27 cm (10-5/8") · Accepts interior lighting set 7329 (page 137)

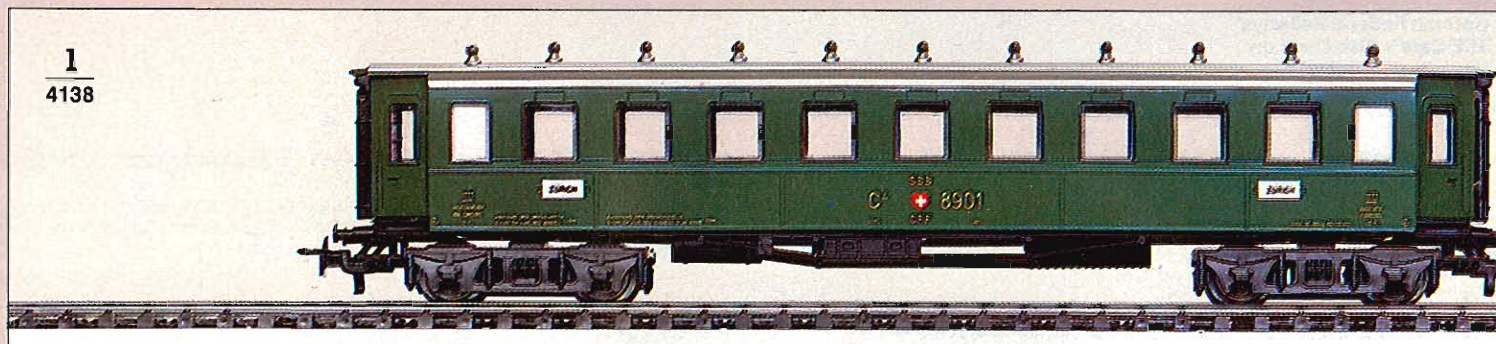


**Swiss Federal (SBB)
Express Coaches**

1 Switzerland

4138 · Express Coach · Older type C4ü · 3rd class · Interior details · Automatic couplers · Length 22.2 cm (8-¾") · Accepts interior lighting set 7329 (page 137)

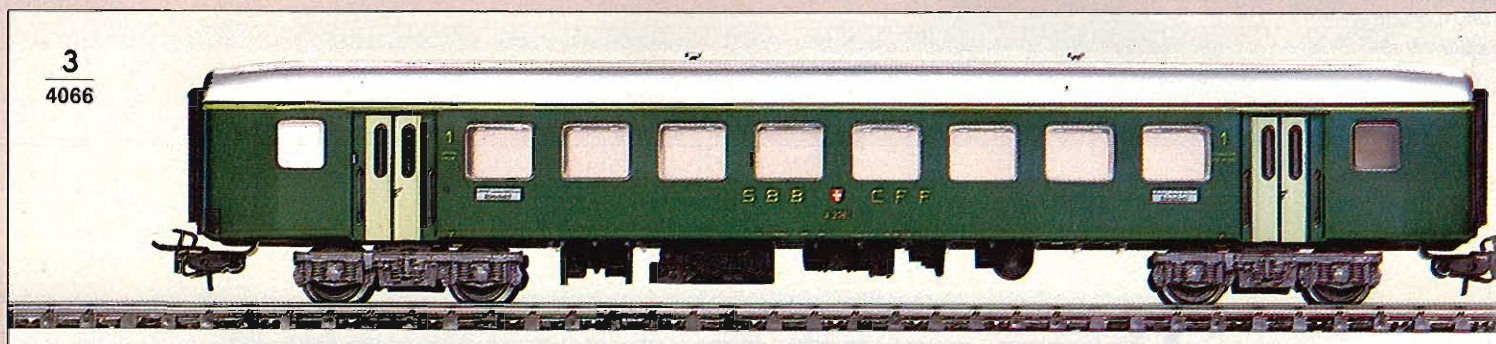
1
4138



3 Switzerland

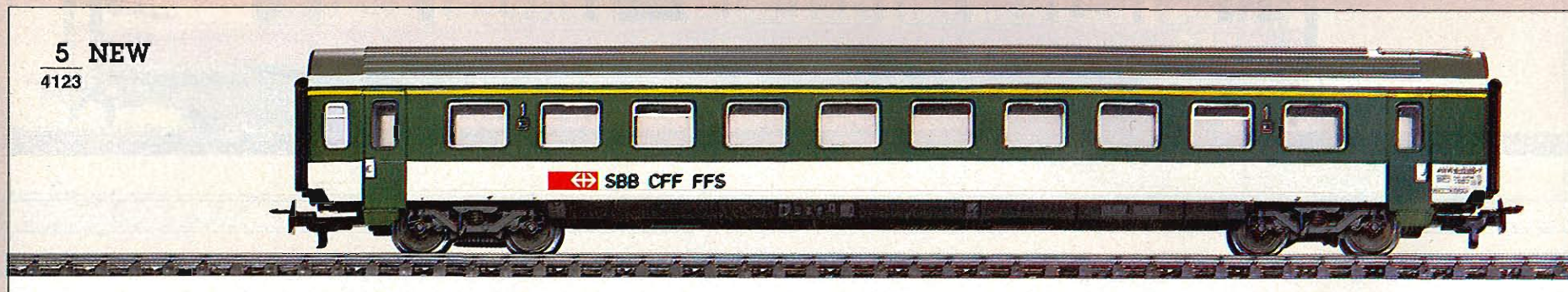
4066 · Express Coach · Type A 2500 · 1st class · RELEX-couplers (pages 40/138) · Length 24 cm (9-½") · Accepts interior lighting set 7320 (page 137)

3
4066



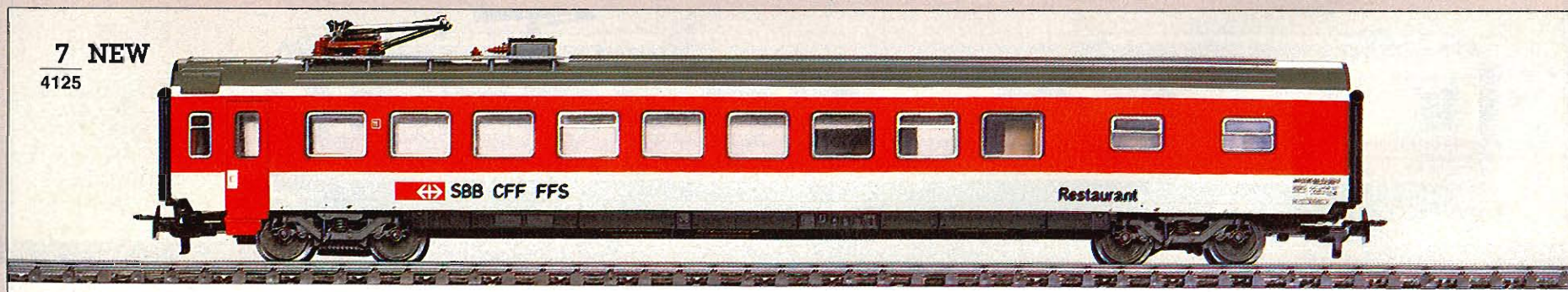
5 NEW

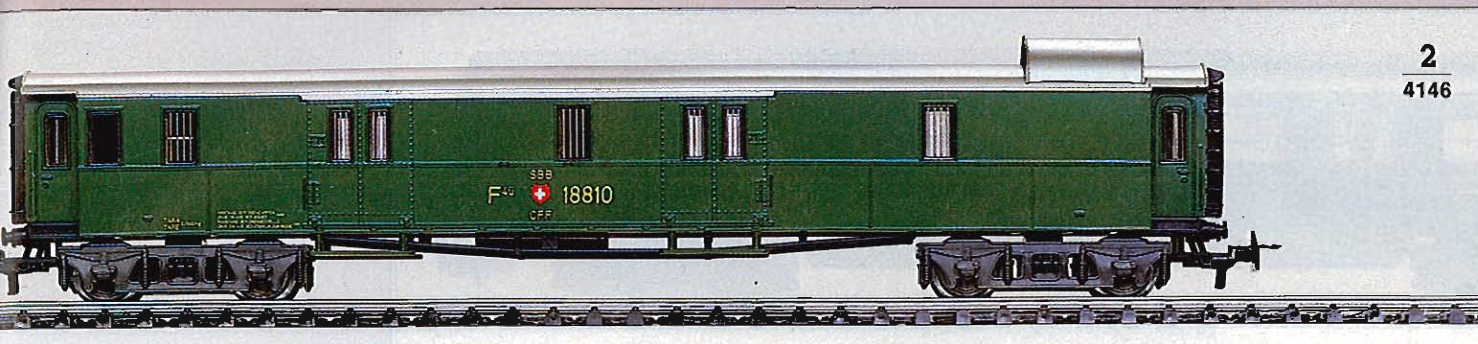
4123



7 NEW

4125





2
4146

2 Switzerland

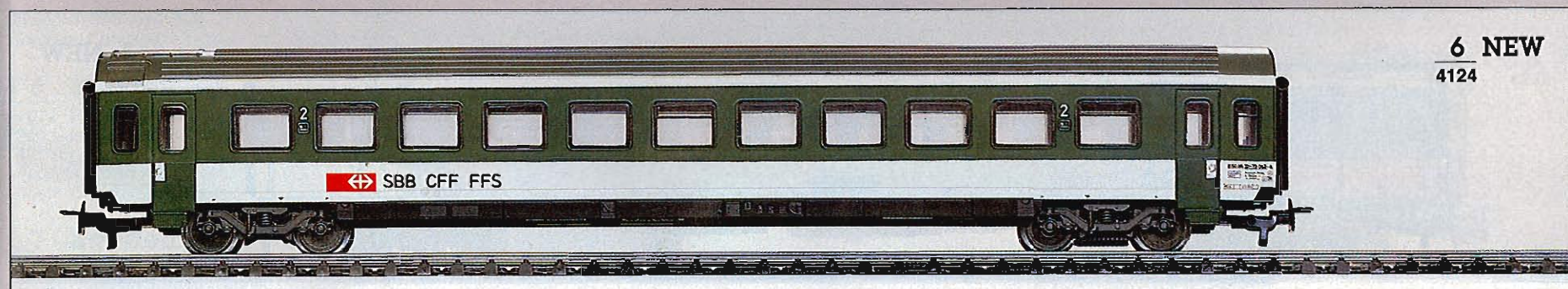
4146 · Baggage Car · Older type F4ü · Automatic couplers · Length 23.2 cm (9") · Accepts interior lighting set 7329 (page 137)



4
4068

4 Switzerland

4068 · Diner · Type RIC · RELEX-couplers (pages 40/138) · Length 24 cm (9-1/2") · Accepts interior lighting set 7077 (page 137)



6 NEW
4124

5 Switzerland

4123 · Express Coach · Class A, standard coach IV · 1st class · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

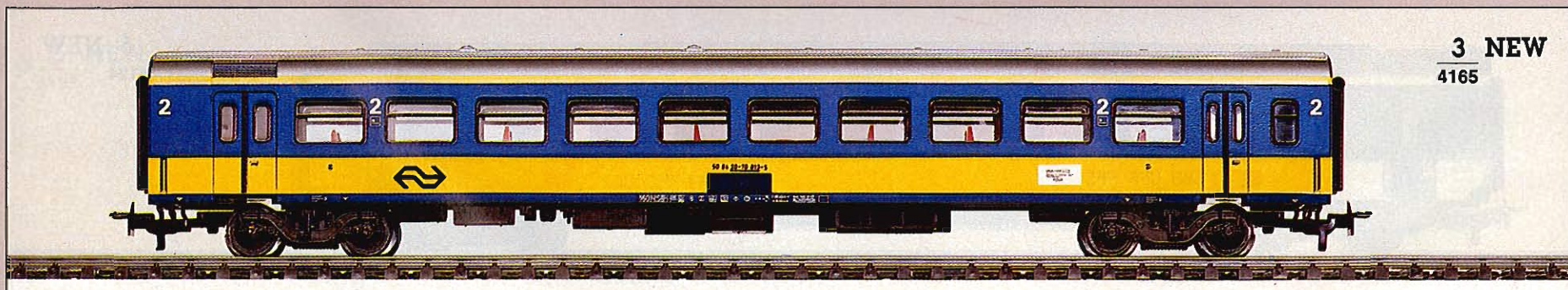
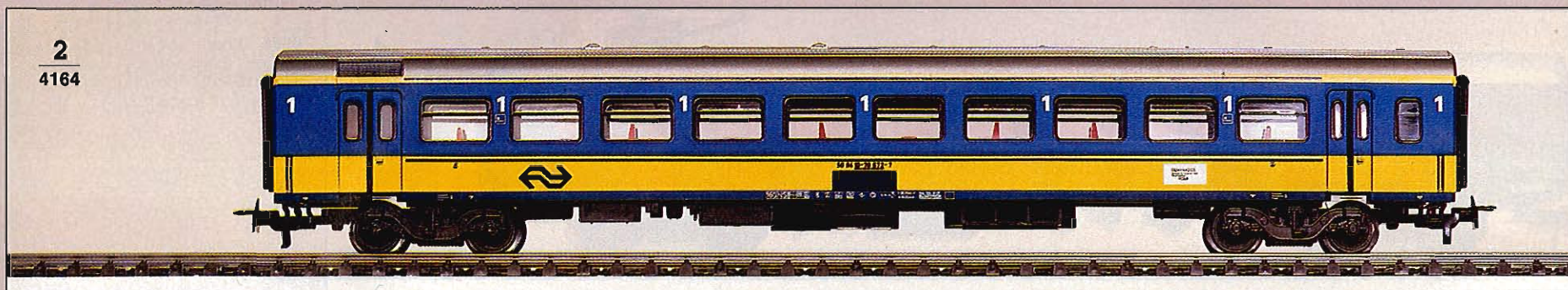
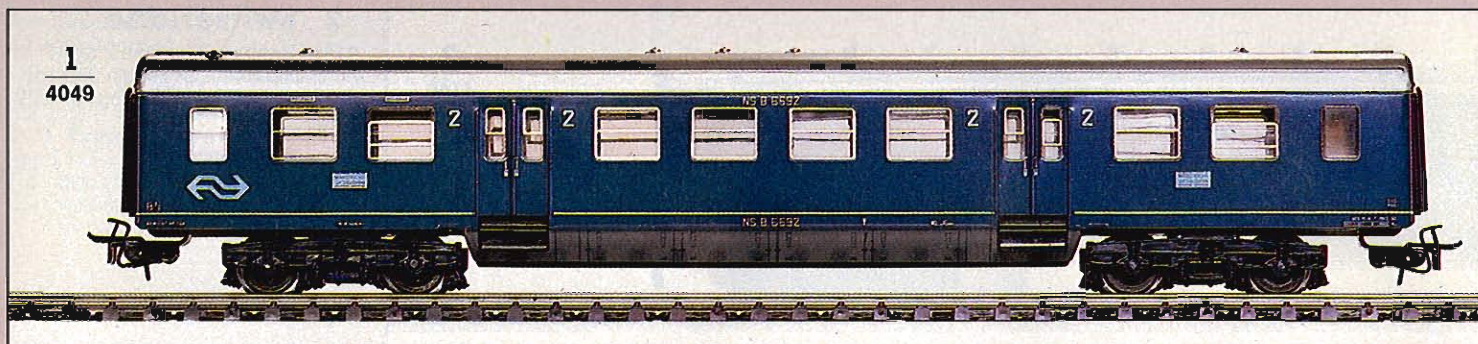
6 Switzerland

4124 · Express Coach · Class B, standard coach IV · 2nd class · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

7 Switzerland

4125 · Diner · Class WR, standard type IV · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

Express Coaches for International Service



Netherlands Railways' (NS)
Express Coaches

1 Netherlands

4049 · Express Coach · Type B 6600 · 2nd class · RELEX-couplers (pages 40/138) · Length 24 cm (9-1/2") · Accepts interior lighting set 7320 (page 137)

2 Netherlands

4164 · Intercity Coach · 1st class · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

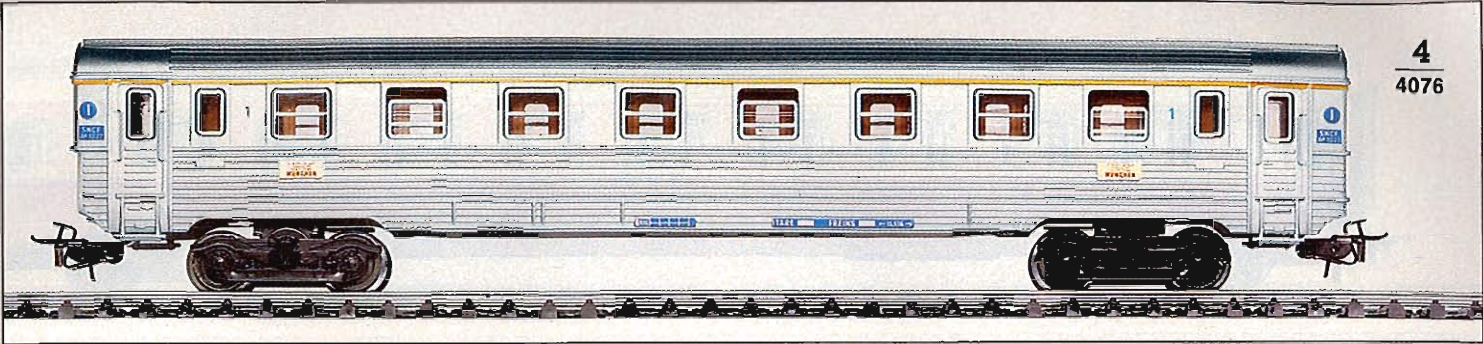
3 Netherlands

4165 · Intercity Coach · 2nd class · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

French Railways' (SNCF)
Express Coach

4 France

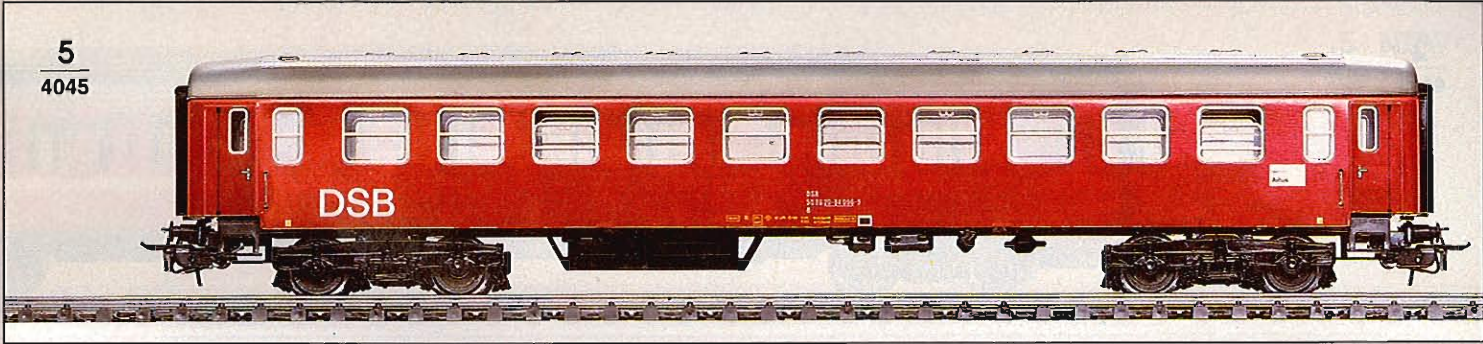
4076 · Express Coach · Type A8myfi · 1st class · Interior details · RELEX-couplers (pages 40/138) · Length 24 cm (10-3/8") · Accepts interior lighting set 7197 (page 137)



Danish Railways' (DSB)
Express Coach

5 Denmark

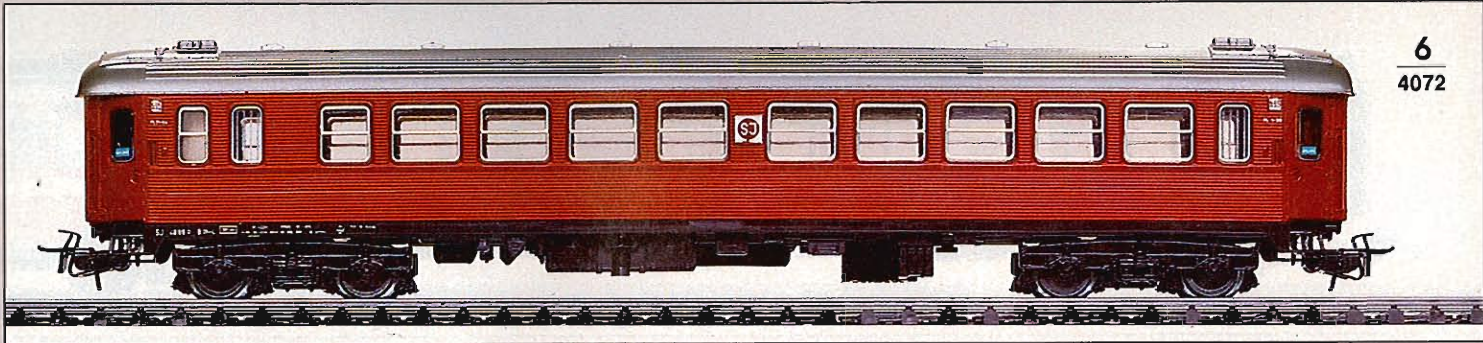
4045 · Express Coach · Type B 2300 · 2nd class · RELEX-couplers (pages 40/138) · Length 24 cm (10-3/8") · Accepts interior lighting sets 7077 + 7198 (page 137)



Swedish Railways' (SJ)
Express Coaches

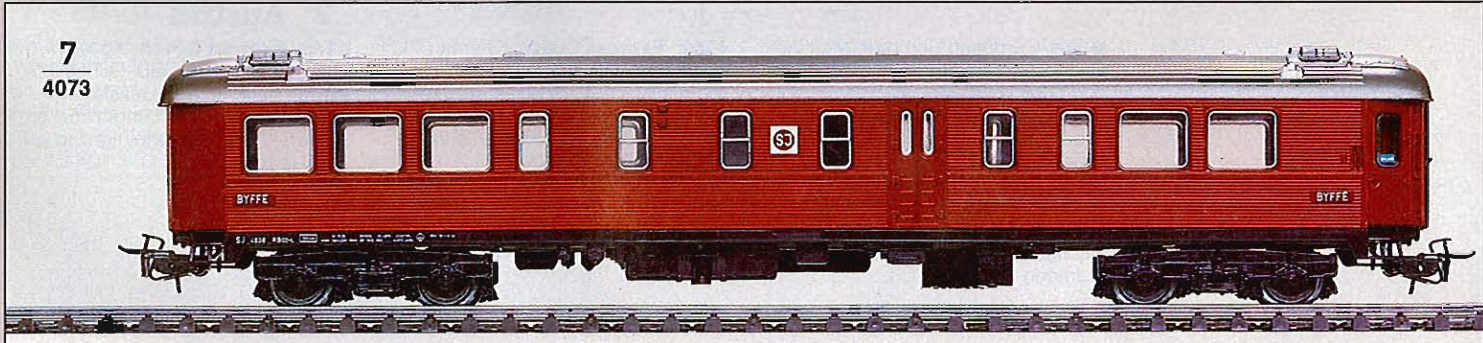
6 Sweden

4072 · Express Coach · Type B 1 · 2nd class · RELEX-couplers (pages 40/138) · Length 23.7 cm (9-3/8") · Accepts interior lighting set 7197 (page 137)

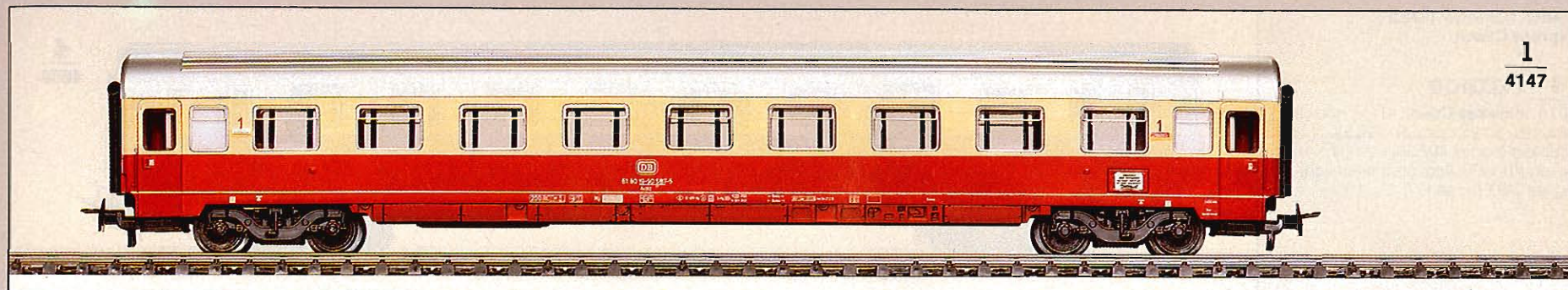


7 Sweden

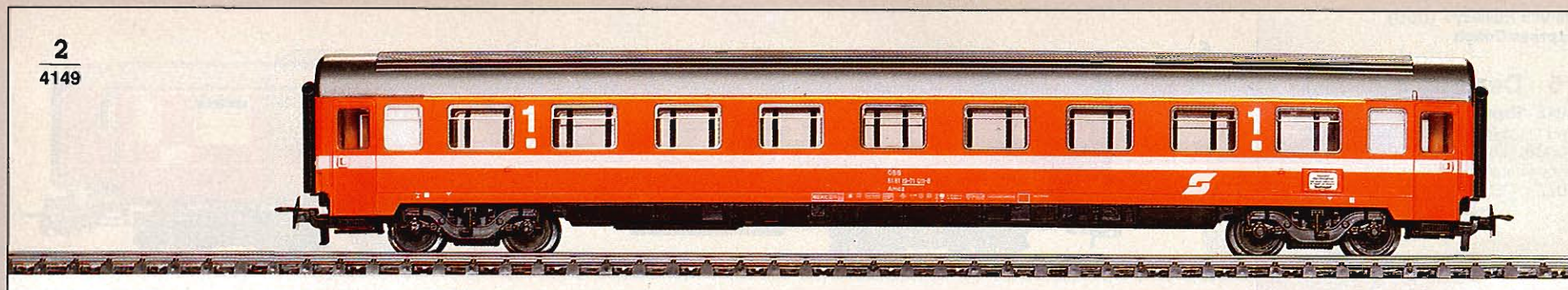
4073 · Diner · Type R 1 · RELEX-couplers (pages 40/138) · Length 23.7 cm (9-3/8") · Accepts interior lighting set 7197 (page 137)



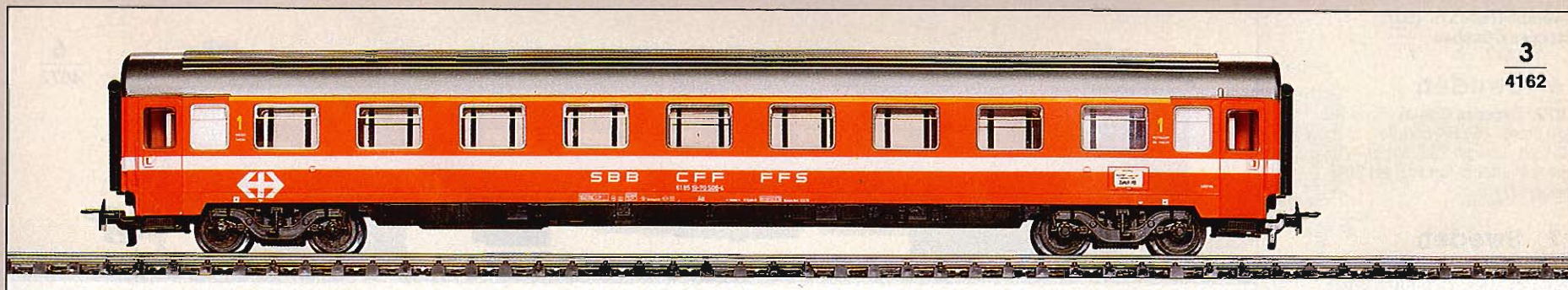
EUROFIMA Cars 26.4 cm (10³/₈"')



1
4147



2
4149



3
4162

■ The "European Community for the Financing of Railroad Equipment" is composed of representatives of 6 European railroads. Among their accomplishments are the A9 1st class coach now in service on the SNCF, SNCB, SBB, ÖBB, FS and DB as well as the 2nd class B11 coach. The EUROFIMA cars were developed by a consortium headed by the Linke-Hofmann-Busch Car Co.

1
4147 · Express Coach · German Federal Railways' type Avnz²⁰⁷ (EUROFIMA A9) · 1st class · Interior details · Automatic couplers · Length 26.4 cm (10³/₈"') · Accepts interior lighting set 7329 (page 137)

2 Austria
4149 · Express Coach · Austrian Federal Railways' (ÖBB) EUROFIMA A9 · 1st class · Interior details · Automatic couplers · Length 26.4 cm (10³/₈"') · Accepts interior lighting set 7329 (page 137)

3 Switzerland
4162 · Express Coach · Swiss Federal Railways' (SBB) EUROFIMA A9 · 1st class · Interior details · Automatic couplers · Length 26.4 cm (10³/₈"') · Accepts interior lighting set 7329 (page 137)

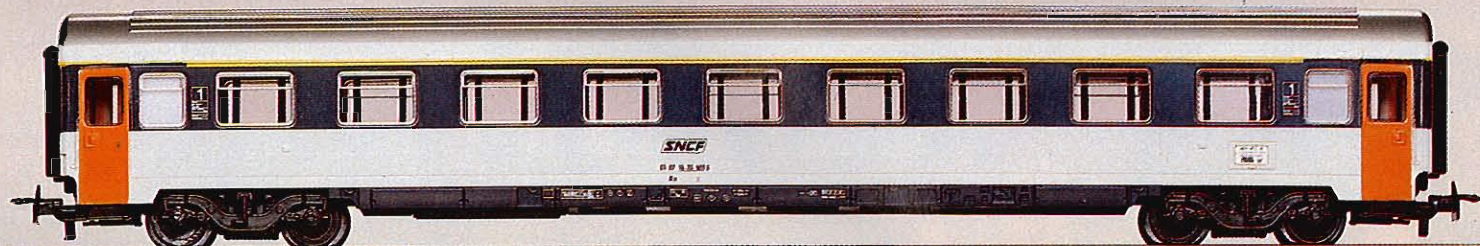
4
4148



5 NEW
4166



6
4161



4 Belgium

4148 · Express Coach · Belgian State Railways' (NMBS/SNCB) EUROFIMA A9 · 1st class · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

5 Belgium

4166 · Express Coach · Belgian State Railways' (NMBS/SNCB) EUROFIMA B11 · 2nd class · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

6 France

4161 · Express Coach · French State Railways' (SNCF) type A9u (EUROFIMA A9) · 1st class · "Corail" livery · Interior details · Automatic couplers · Length 26.4 cm (10-3/8") · Accepts interior lighting set 7329 (page 137)

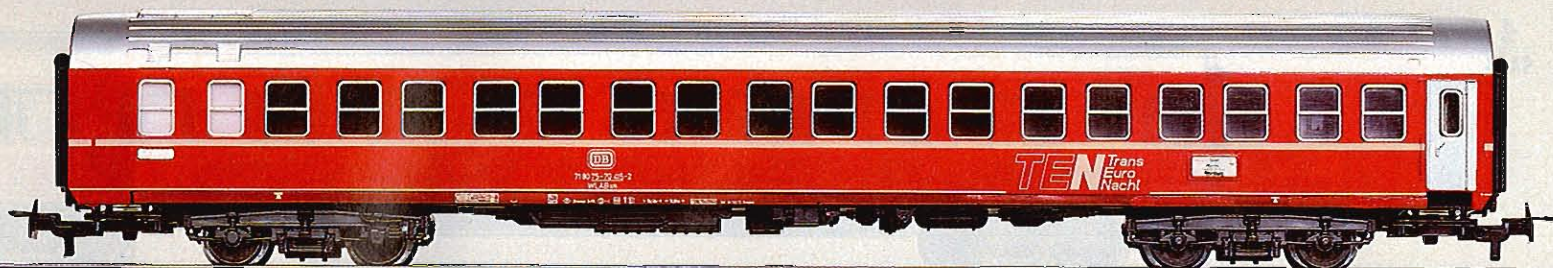
■ The standard coach A9, developed by the "European Community for the Financing of Railroad Equipment" (EUROFIMA), is also used by the French State Railways. The SNCF received 100 cars and painted them with the colorful "Corail" livery.

"Corail" i.e. "Confort sur rail" (in English, Comfort on the rails) is a fundamental concept for high standards and comfortable train operation.

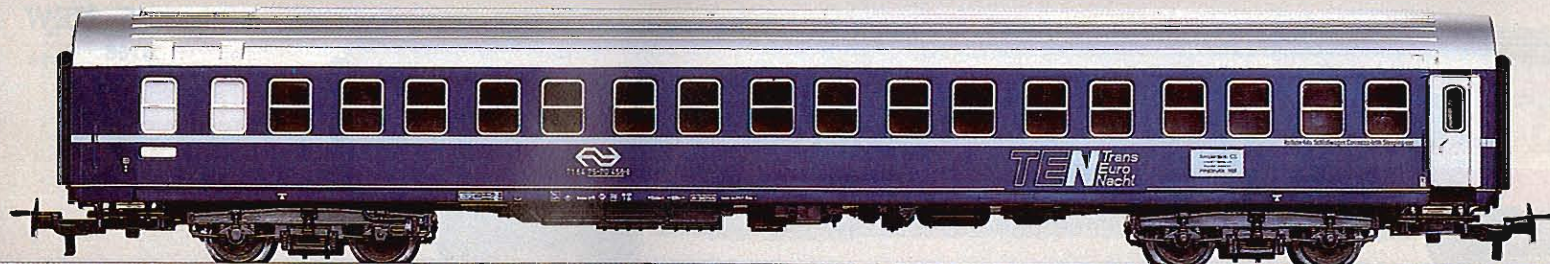
Corail cars, along with the Austrian A9 (Märklin model 4149), can be seen on German Federal rails.

TEN Cars 27 cm (10⁵/₈")

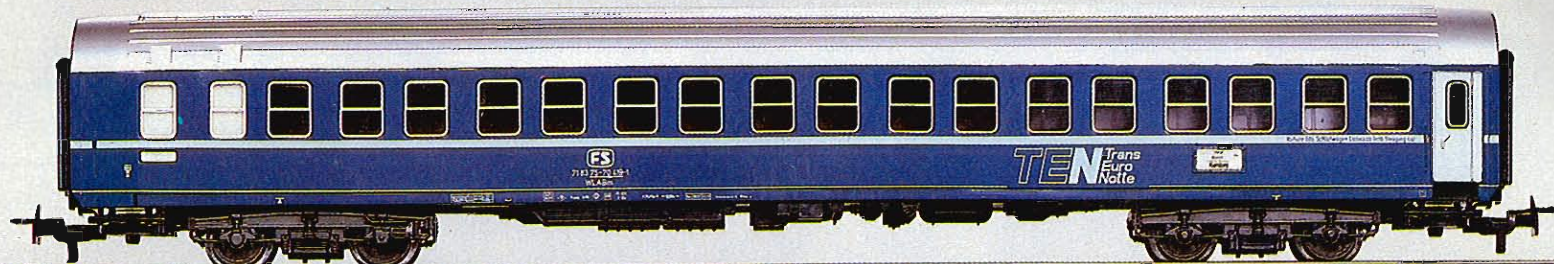
1
4150



2
4151



3
4152



1

4150 · Sleeping Car · German Federal Railways' type WLABsmh¹⁶⁶ · 1st and 2nd class sleeper for the TEN pool · Interior details · Automatic couplers · Length 27 cm (10-5/8") · Accepts interior lighting set 7329 (page 137)

2 Netherlands

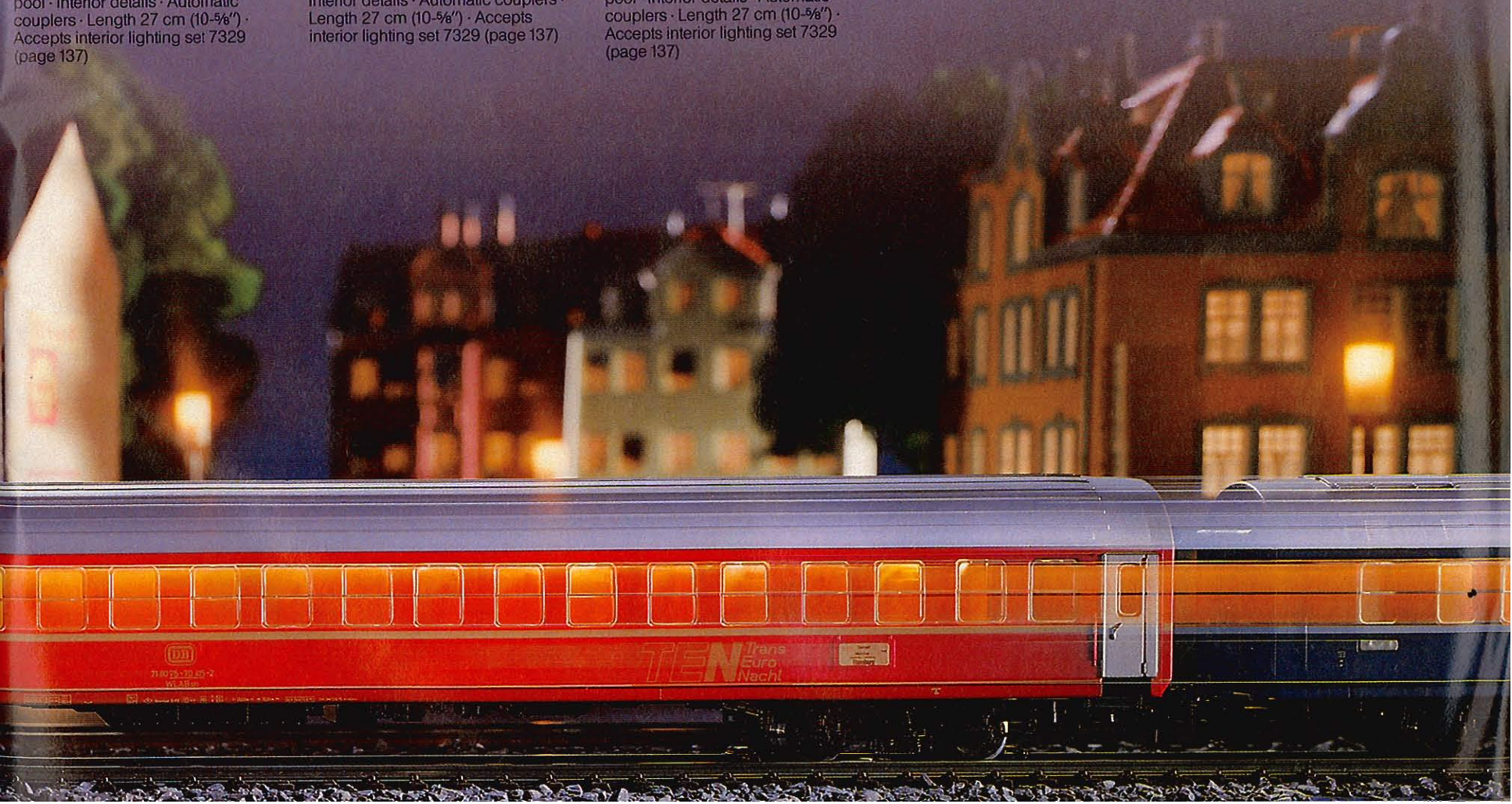
4151 · Sleeping Car · Netherlands State Railways' (NS) lettering · 1st and 2nd class sleeper for the TEN pool · Interior details · Automatic couplers · Length 27 cm (10-5/8") · Accepts interior lighting set 7329 (page 137)

3 Italy

4152 · Sleeping Car · Italian State Railways' (FS) type WLABm · 1st and 2nd class · Classed T2S for the TEN pool · Interior details · Automatic couplers · Length 27 cm (10-5/8") · Accepts interior lighting set 7329 (page 137)

■ The TEN (Trans-Euro-Night) is a sleeping car pool service organized July 1, 1971 by the state railways of Belgium, Denmark, France, Italy, Netherlands, Switzerland, Luxem-

burg, Austria and the German Federal Republic to better utilize sleepers on international runs. These "rolling hotels" check in about 1 million guests annually.





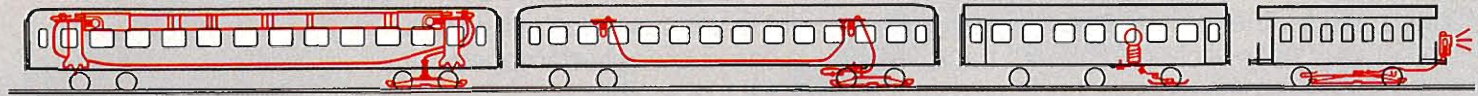
Train Lighting

This schematic illustrates the various styles of train lighting. Instructions are included with each set.

7197, 7320, 7329

7077

7077

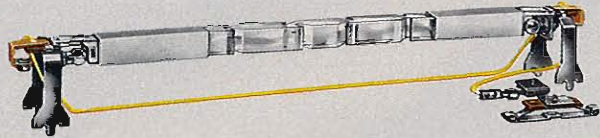


7198

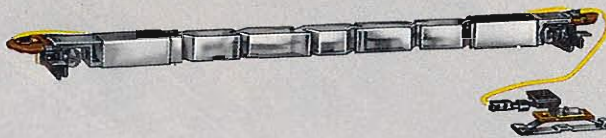
7074

7076

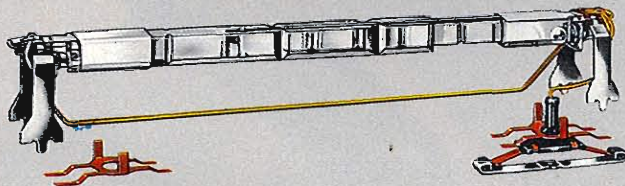
7079



7197



7320



7329



0226



0225

7197 · Interior Lighting Set · For express coaches 4072, 4073 and 4076 · Includes current collector 7198, light diffuser, 2 lamp sockets, 2 bulbs, instructions

☞ = 7175 ☞ = 60015

7320 · Interior Lighting Set · For TEE cars 4085, 4087 and the Express cars 4049, 4054, 4064 and 4066 · Includes current collector 7198, light diffuser, 2 lamp sockets, 2 bulbs, instructions

☞ = 7175 ☞ = 60015

7329 · Interior Lighting Set · Has variable length light diffuser · For cars 4091 – 4099, 4122 – 4125, 4134 – 4140, 4143, 4145 – 4154, 4157 – 4162, 4164 – 4166, 4175, 4176, 4190 and train set 2856 · Includes current collector, light diffuser, 2 lamp sockets, 2 bulbs, instructions

☞ = 41494 ☞ = 60015

Interior Details for cars 4045, 4049, 4066, 4067, 4072, 4073, 4079 and 4080

Interior details and figures are made of finely cast plastic. Figures are hand painted. Illustrated instructions included with each set.

0226 · Pack of 10 Colorful Figures · For use with interior details

0225 · Interior Detail Kit · For express coaches · 18 double seats, 6 single seats, 2 rest rooms

7077 · Interior Lighting Set · For most of the 24 cm (9-1/2") coaches · Has socket for connecting additional sets · Bulb

☞ = 60000

7198 · Current Collector · For interior lighting set 7077

☞ = 7175

7322 · Interior Lighting Set · For TEE coach 4090 · Includes current collector 7198, 2 lamp sockets, 2 bulbs, instructions

☞ = 7175 ☞ = 60015

7323 · Interior Lighting Set · For cars 4107 and 4108 · Bulb

☞ = 7175 ☞ = 60010

7074 · Interior Lighting Set · For coaches 4004, 4005, 4067, 4079, and 4080 · Has socket for connecting additional sets · Bulb

☞ = 60020

7079 · Tail Light · With bulb · Clips onto buffer · For cars with metal buffers only · To illuminate use with 7074, 7076 or 7198

☞ = 60001 (red)

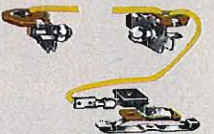
7076 · Current Collector · For illuminating tail light 7079 on the 4040 coach



7077



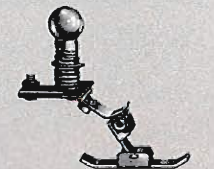
7198



7322



7323



7074



7079



7076

Marshalling Cars is Fun

Marshalling (classifying) railroad cars on a Märklin layout is just as exciting and interesting as on real railroads. Cars are shunted from one track to the other based on destination. Other cars are peddled by a local freight to various industrial sidings. Still other cars get switched to a team track, while cars carrying easily-damaged merchandise are gingerly switched from one ladder track to the other.

Everything necessary for marshalling is included in the Märklin program: Uncoupling tracks, track closure signals, switchers, RELEX-coupler equipped freight cars, and TELEX-coupler equipped engines (3309, 3096, 3065).

With RELEX couplers it is possible not only to uncouple cars but also to pre-uncouple cars. By pre-uncoupling, a locomotive can still push the car to be spotted someplace beyond the uncoupling track without having the cars' couplers re-engage. Just like real life! Locomotives with TELEX couplers can be uncoupled from their trains anywhere on the layout by merely using the transformer.

Marshalling cars is fun on Märklin layouts!





1

4424 · Low-side Gondola · Loaded with Wiking vehicle · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

3

4474 · Low-side Gondola · Loaded with Wiking bulldozer and Wiking shovel loader · Metal wheels · RELEX couplers (pages 40/138) · Length 16 cm (6-5/16")

5

4440 · Tank Car · Aral · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

7

4442 · Tank Car · Shell · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

2

4423 · Low-side Gondola · German Federal Railways' type Kklm 505 · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

4

4473 · Low-side Gondola · German Federal Railways' type Rlmms · Metal wheels · RELEX couplers (pages 40/138) · Length 16 cm (6-5/16")

6

4441 · Tank Car · Esso · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

8 Italy

4443 · Tank Car · Agip · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

1

4424

2

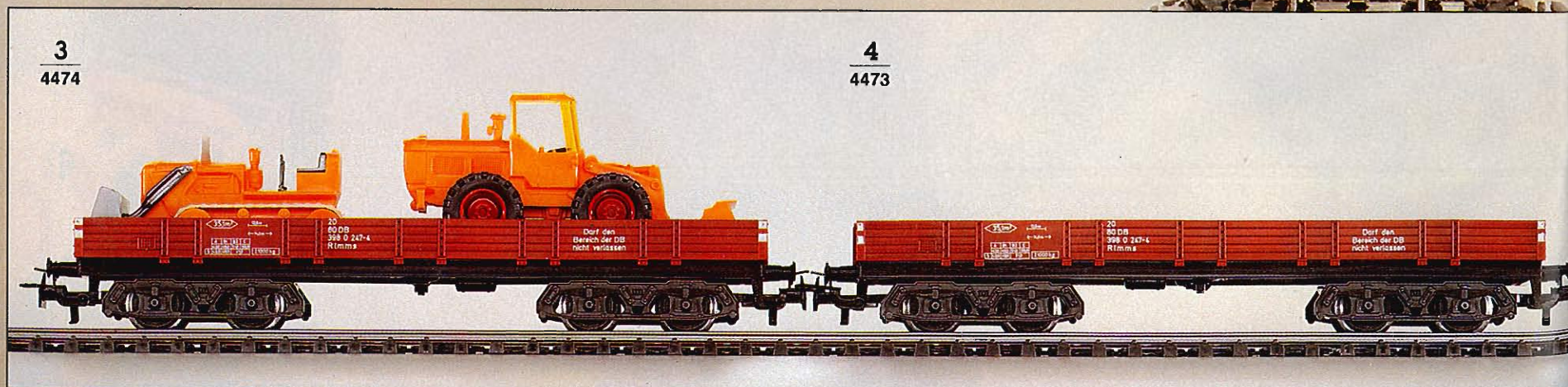
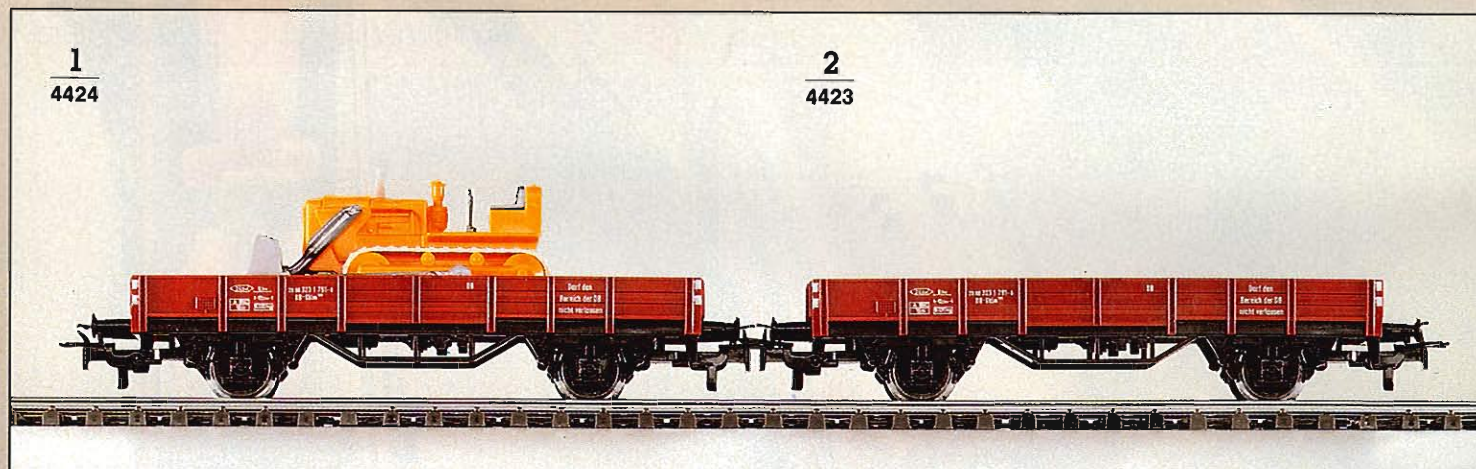
4423

3

4474

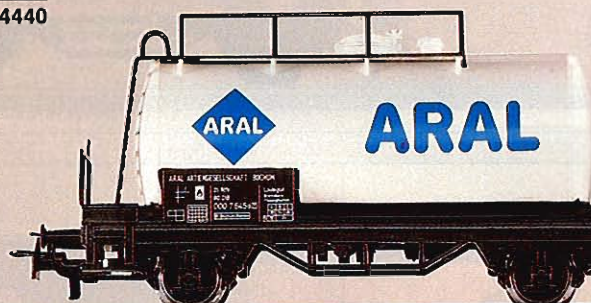
4

4473





5
4440



6
4441

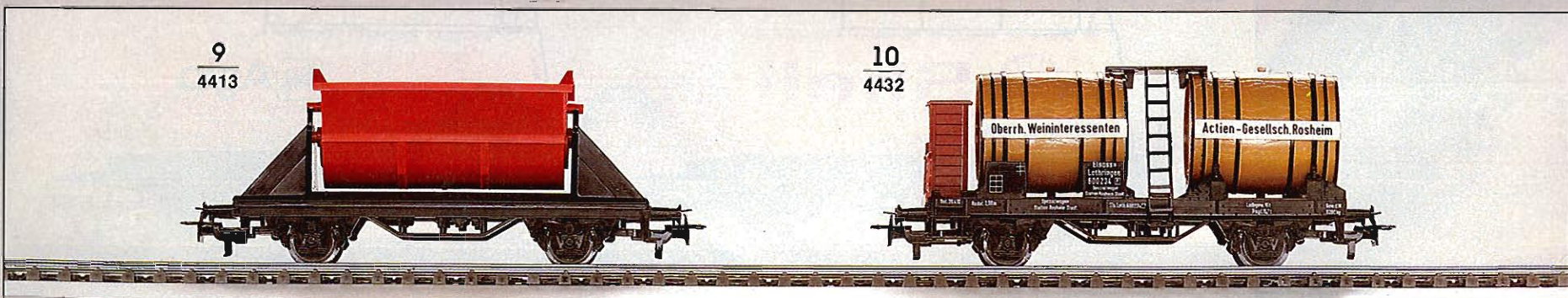
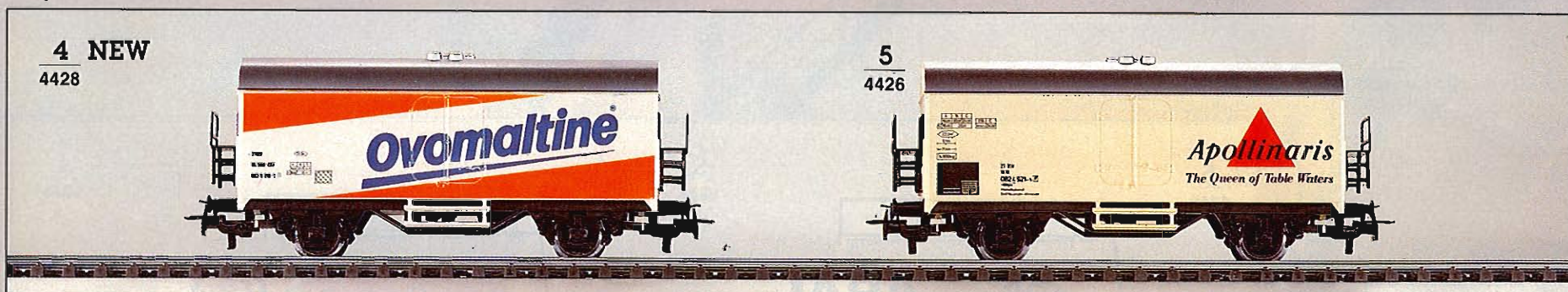


7
4442



8 NEW
4443





1

4415 · Refrigerator Car · German Federal Railways' type Ichqs-u³⁷⁷ (Ichqrs 377) · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

2

4429 · Beer Car · Staufen Bräu · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

3

4422 · Beer Car · Wicküler-Küpper-Brauerei · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

4 Switzerland

4428 · Refrigerator Car · Ovomalline · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

5

4426 · Refrigerator Car · Apollinaris · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

6

4419 · Refrigerator Car · Pepsi · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

7

4414 · Banana Car · German Federal Railways' type lbbls · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

8

4425 · Refrigerator Car · Capri-Sonne · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

9

4413 · Dump Car · Bucket, latched in upright position, can be tipped to either side manually · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

10

4432 · Wine Car · Older style · Upper Rhine Wine Producers · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

11

4410 · Box Car · German Federal Railways' type Gs²¹⁰ · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

11

4411 · Box Car · Illuminated end markers · German Federal Railways' type Gs-uv²¹³ (Grs-v 213) · Metal wheels · Includes current collector · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

☞ = 41494 ☉ = 60015

12

4460 · Box Car with swivel roof · German Federal Railways' type Taems⁸⁹⁰ (Taes 890) · Metal wheels · RELEX couplers (pages 40/138) · Length 16 cm (6-5/16")

13

4475 · Low-side Gondola · With tarpaulin · Metal wheels · RELEX couplers (pages 40/138) · Length 16 cm (6-5/16")

14

4430 · Gondola · German Federal Railways' type EI-u⁰⁶¹ · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

15

4431 · Gondola · German Federal Railways' type EI-u⁰⁶¹ · With removable simulated coal load · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

11

4410
4411

12

4460



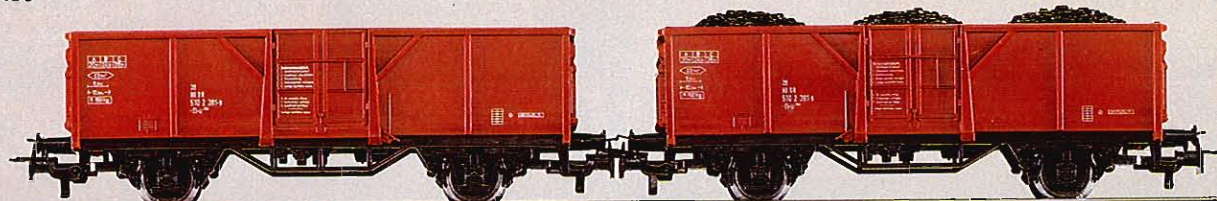
13

4475



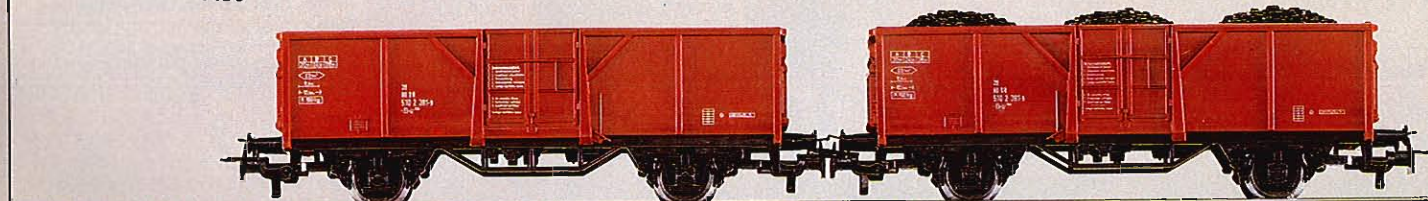
14

4430



15

4431



1 NEW
4685



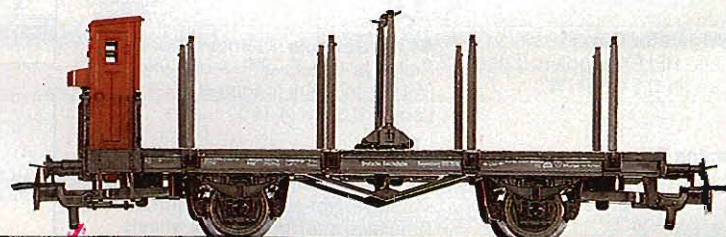
2 NEW
4674



5
4696



6
4697



Freight Cars of the Königlich Württembergischen Staatseisen- bahnen (Royal Württemberg State Railways)

1
4685 · Box Car · Royal Württemberg
type Ni · Brakeman's platform · Metal
wheels · RELEX couplers (pages
40/138) · Length 10.7 cm (4-3/16")

2
4674 · Tank Car · German-American
Petroleum Company as used on the
Royal Württemberg State Railways ·
With brakeman's cab, running boards,
ladders · Metal wheels · RELEX
couplers (pages 40/138) · Length
10.1 cm (4")

3
4677 · Beer Car · Württemberg-
Hohenzollernschen Beer Company
Englischer Garten Stuttgart as used on
the Royal Württemberg State Rail-
ways · Metal wheels · RELEX couplers
(pages 40/138) · Length 11 cm (4-3/8")

4
4678 · Beer Car · Beer Company
Wulle Stuttgart as used on the Royal
Württemberg State Railways · Metal
wheels · RELEX couplers (pages
40/138) · Length 11 cm (4-3/8")

Freight Cars of the German State Railways

■ A decisive event in the develop-
ment of freight cars was the creation of
the "German State Railroad Car Asso-
ciation" in 1909. It established freight
car construction standards which
were adopted by the provincial
railways. Besides generating great
savings in construction, they improved
interchange standards and, thus,
customer service.

Märklin models 4695, 4696 and 4697
conform to this "Verbandsbauart"
(association standard).

5
**4696 · Gondola with Brakeman's
Cab** · Former German State Railways'
type O 10 · Metal wheels · RELEX
couplers (pages 40/138) · Length
10.1 cm (4")

6
**4697 · Flat Car with Brakeman's
Cab** · Floor center pivots · Former
German State Railways' type H 10 ·
Metal wheels · RELEX couplers
(pages 40/138) · Length 11.5 cm (4-1/2")

7
**4695 · Box Car with Brakeman's
Cab** · Former German State Railways'
type G 10 · Sliding doors · Metal
wheels · RELEX couplers (pages
40/138) · Length 11 cm (4-3/8")

8
4692 · Box Car · Former German
State Railways' type Gr 20, the
"Kassel" · Sliding doors · Metal
wheels · RELEX couplers (pages
40/138) · Length 10.5 cm (4-1/8")

■ After the provincial German rail-
ways united to form the German State
Railways in 1920, freight car standard-
ization continued. The "Kassel" is one
example.

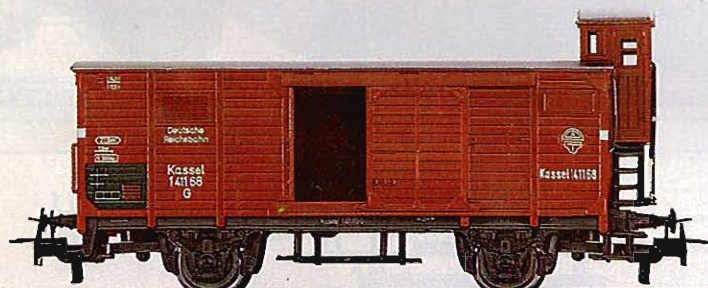
3 NEW
4677



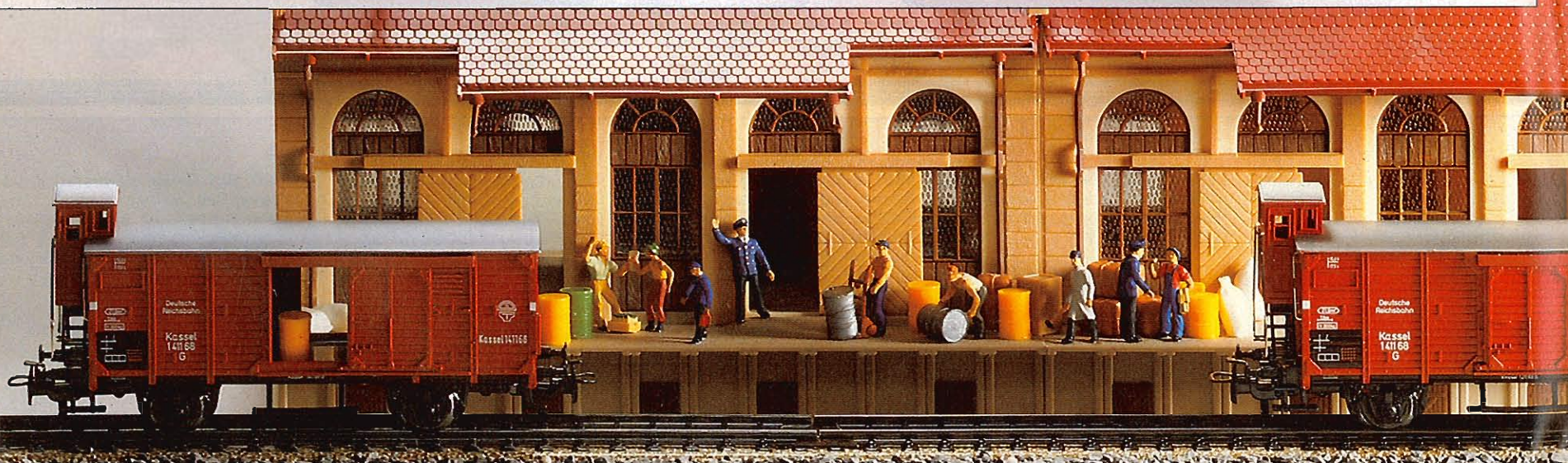
4 NEW
4678



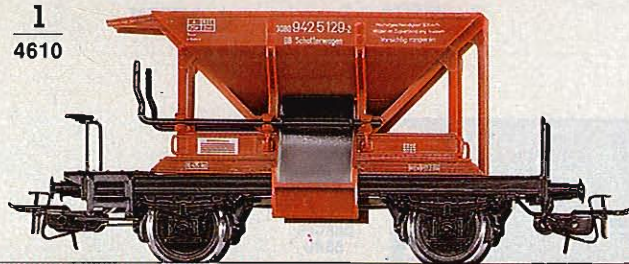
7
4695



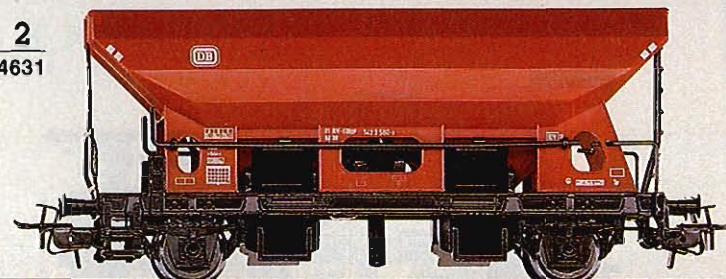
8
4692



1
4610



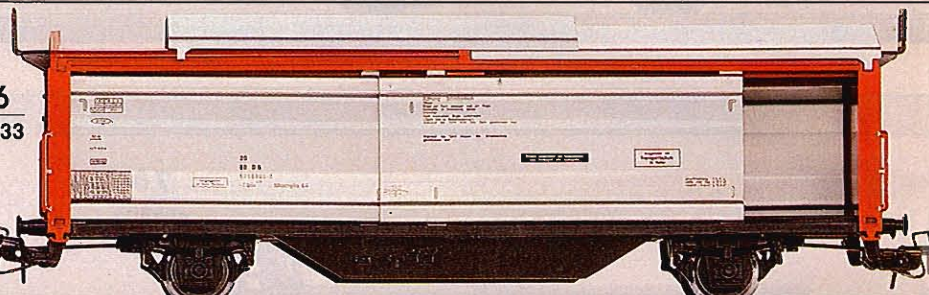
2
4631



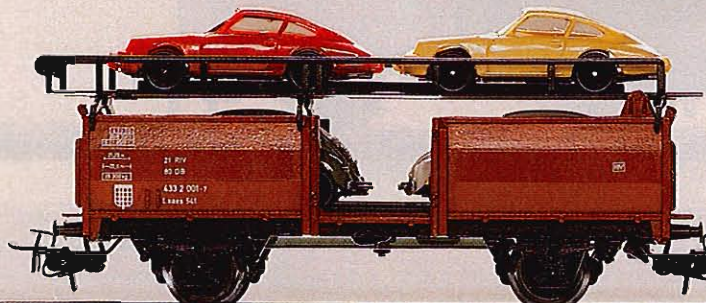
5
4619



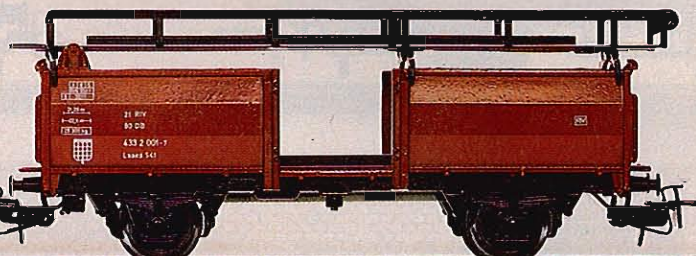
6
4633



9
4613



10
4612



1
4610 · Ore Car · Manually operated unloading hopper · Metal wheels · RELEX couplers (pages 40/138) · Length 9.5 cm (3-3/4")

2
4631 · Side-unloading Hopper Car · German Federal Railways' type Fc⁰⁹⁰ (Ed 090) · Metal wheels · RELEX couplers (pages 40/138) · Length 11.2 cm (4-3/8")

The discharge chutes can be operated manually or by remote control using the uncoupling track 5112 (page 28) or 2297 (page 34).

3
4624 · High Capacity Hopper Car · German Federal Railways' type Fals¹⁷⁶ (Fads 176) · Metal wheels · RELEX couplers (pages 40/138) · Length 13.3 cm (5-1/4")

■ These cars are usually seen in unit trains, international and domestic, for the transport of coal, coke, ore, etc.

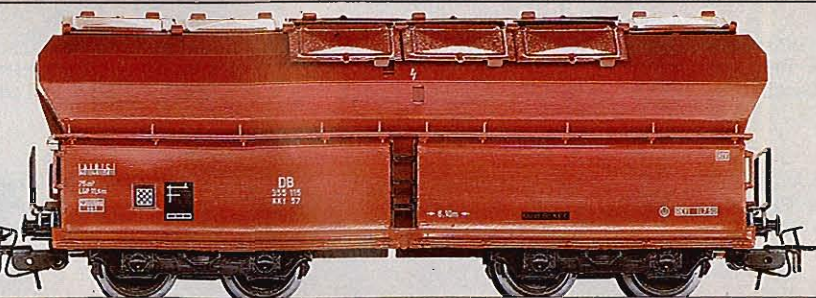
4
4626 · High Capacity Covered Hopper Car · German Federal Railways' type Tad-u 961 · All hatches open · Metal wheels · RELEX couplers (pages 40/138) · Length 13.3 cm (5-1/4")

■ On many high capacity cars, a "top" is installed as protection against the elements for items such as grain.

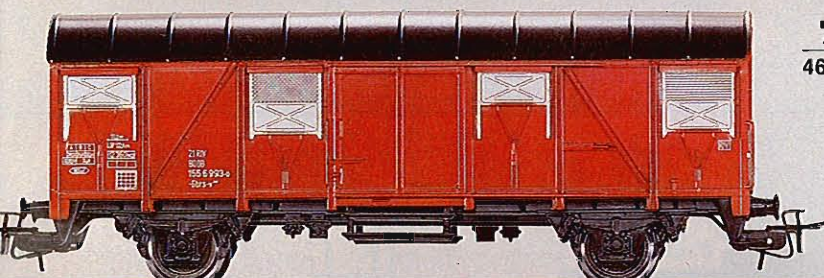
3
4624



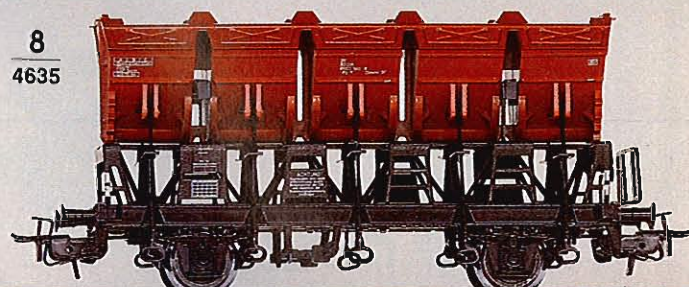
4
4626



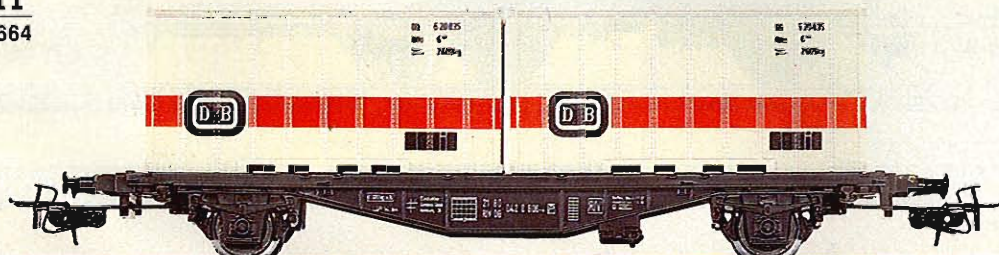
7
4627



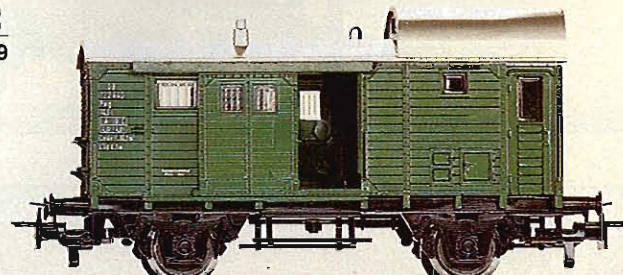
8
4635



11
4664



12
4699



5

4619 · Covered Gondola · German Federal Railways' type Tms⁸⁵¹ (Ts 851) · Sliding roof · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

6

4633 · Gondola with Sliding Roof and Sides · German Federal Railways' type Tbis⁸⁷⁰ · Roof halves and sides open · Metal wheels · RELEX couplers (pages 40/138) · Length 15.7 cm (6-3/16")

8

4635 · Multi-section Ballast Car · German Federal Railways' type F-z¹²⁰ · Bucket can be tipped by unlatching holding bar · Metal wheels · RELEX couplers (pages 40/138) · Length 10.5 cm (4-1/8")

10

4612 · Bi-level Auto Carrier · Empty · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

11

4664 · Container Car · German Federal Railways' type "Berlin" · With 2 removable containers · Metal wheels · RELEX couplers (pages 40/138) · Length 15.6 cm (6-1/8")

7

4627 · Box Car · German Federal Railways' type Gos-uv²⁴⁵ (Gbrs-v 245) · Metal wheels · RELEX couplers (pages 40/138) · Length 13.3 cm (4-1/4")

9

4613 · Bi-level Auto Carrier · With 4 Wiking automobiles · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

■ On the German Federal Railways, 2 of these cars are semipermanently coupled together and designated Laekms⁵⁴¹ (Laaes 541).

12

4699 · Package Car · German Federal Railways' type Pwg Pr014 · Sliding doors on both sides · Metal wheels · RELEX couplers (pages 40/138) · Length 9.8 cm (3-7/8")

1

4644 · Tank Car · BP standard tank car · Metal wheels · RELEX couplers (pages 40/138) · Length 10 cm (4")

2

4646 · Tank Car · Aral standard tank car · Metal wheels · RELEX couplers (pages 40/138) · Length 10 cm (4")

3

4661 · Bulk Material Tank Car · German Federal Railways' type Ucs⁹⁰⁸ · Quarzwerke (Quartz Works) · Metal wheels · RELEX couplers (pages 40/138) · Length 10 cm (4")

4

4650 · Tank Car · Esso · Metal wheels · RELEX couplers (pages 40/138) · Length 16.4 cm (6-½")

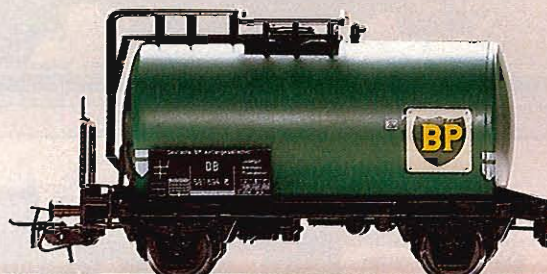
5

4651 · Tank Car · Shell · Metal wheels · RELEX couplers (pages 40/138) · Length 16.4 cm (6-½")

6

4652 · Tank Car · Texaco · Metal wheels · RELEX couplers (pages 40/138) · Length 16.4 cm (6-½")

1
4644



2
4646



4
4650



5
4651





3
4661



6
4652





1

4671 · Crane Car · With rotating crane, movable boom, boom supports · Hook operated manually · Metal wheels · RELEX couplers (pages 40/138) · Length of underbody 9 cm (3-1/2") · (Low-side gondola 4423 not included but recommended as idler car)

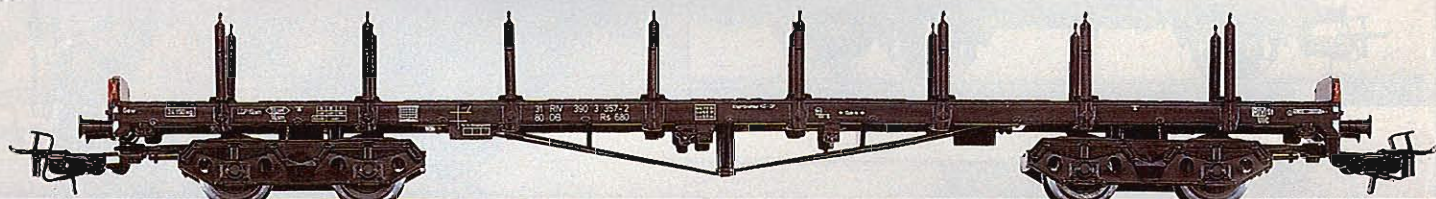
2

4694 · Flat Car · German Federal Railways' type Kbs⁴⁴³ · Removable slakes · Metal wheels · RELEX couplers (pages 40/138) · Length 15.7 cm (6-3/16")



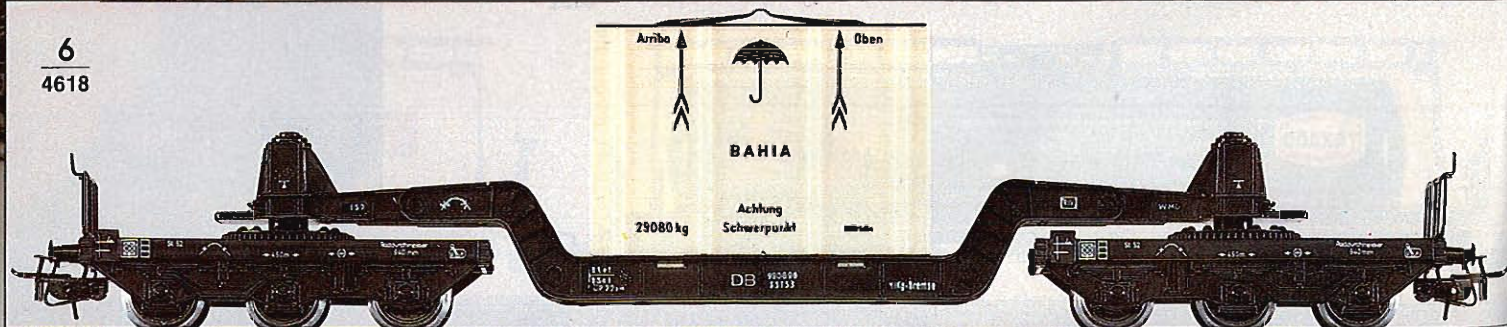
4

4663

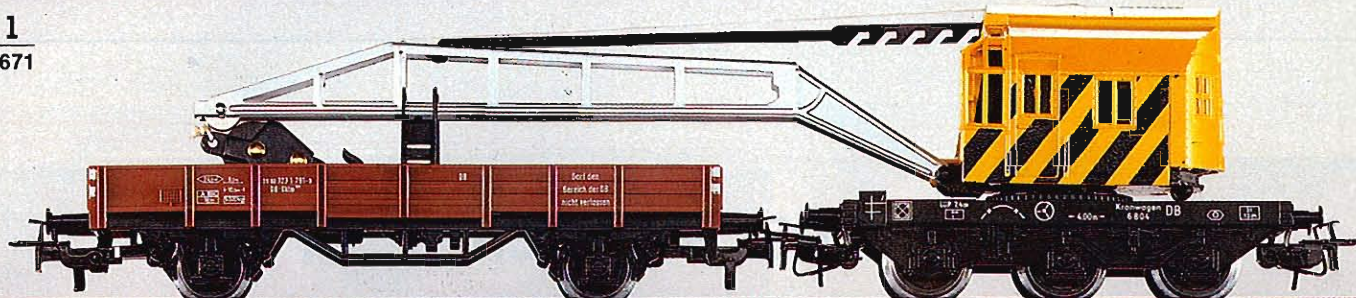


6

4618



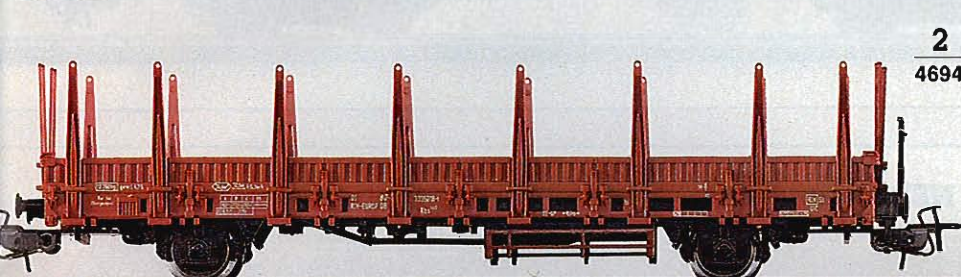
1
4671



3

4693 - Telescoping Freight Car · German Federal Railways' type Shimms⁷⁰⁸ (Shis 708) · Firm ends · 3 part telescoping sides, shiftable to either end · 5 built-in bays with adjustable restrainers · 3 realistic looking steel coils as freight · Metal wheels · RELEX couplers (pages 40/138) · Length 13.8 cm (5-3/8")

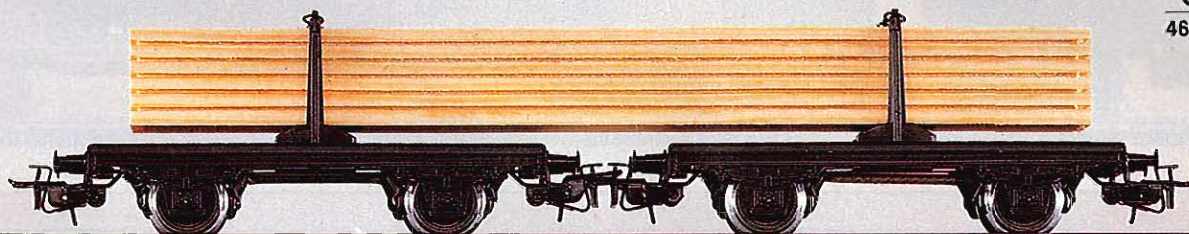
2
4694



3
4693



5
4665



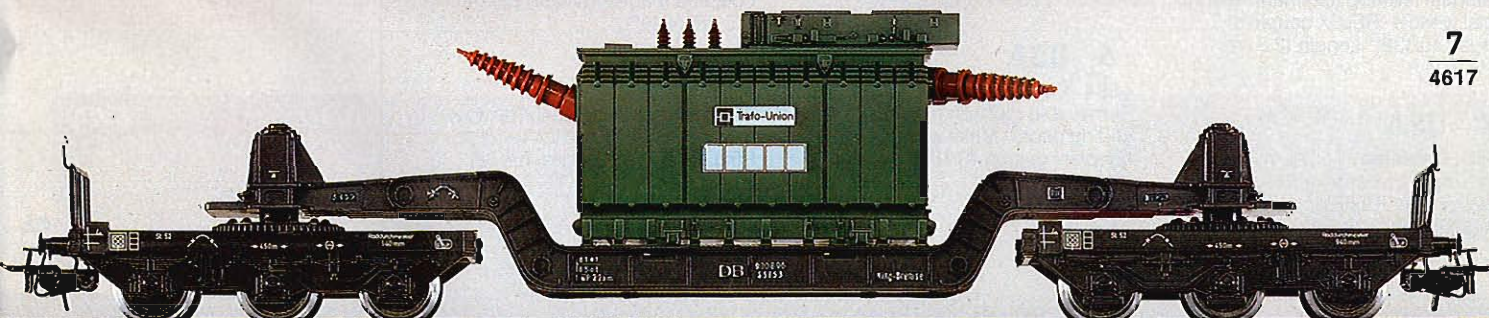
4

4663 - Flat Car · German Federal Railways' type Rs⁶⁸⁰ · Removable stakes · Metal floor and wheels · RELEX couplers (pages 40/138) · Length 22.7 cm (9")

5

4665 - Lumber Car · 2 "shorty" flats loaded with sawn lumber · Metal wheels · RELEX couplers (pages 40/138) · Length 19.5 cm (7-3/4")

7
4617



6

4618 - Depressed-center Flat Car · Loaded with crate · Metal wheels · RELEX couplers (pages 40/138) · Length 25 cm (9-7/8")

7

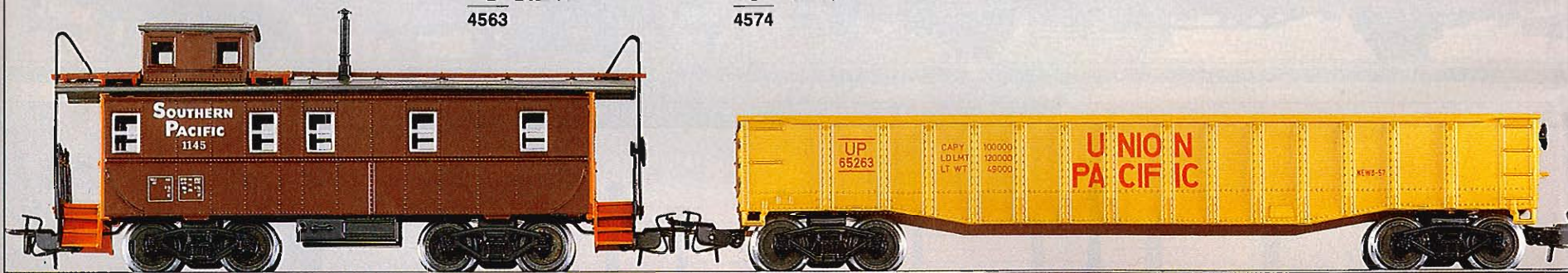
4617 - Depressed-center Flat Car · Loaded with transformer · Metal wheels · RELEX couplers (pages 40/138) · Length 25 cm (9-7/8")

1
4632



4 NEW
4563

5 NEW
4574



1 Switzerland

4632 · Beer Car · Feldschlösschen · Metal wheels · RELEX couplers (pages 40/138) · Length 19.5 cm (7-3/4")

2 Switzerland

4698 · Box Car with Brakeman's Cab · Swiss Federal Railways' (SBB) type H h k · Sliding doors · Metal wheels · RELEX couplers (pages 40/138) · Length 14 cm (5-1/2")

3 Switzerland

4691 · High Capacity Cement Car · Juracement-Fabriken-Aarau · Bi-lingual lettering (German, French) · Metal wheels · RELEX couplers (pages 40/138) · Length 13.3 cm (5-1/4")

4 USA

4563 · Caboose · Southern Pacific · With running boards and ladders · Metal wheels · RELEX couplers (pages 40/138) · Length 12.5 cm (5")

5 USA

4574 · Gondola · Union Pacific · Metal wheels · RELEX couplers (pages 40/138) · Length 17 cm (6-5/8")

6 USA

4564 · Box Car · Chesapeake & Ohio · Removable roof with running board · Sliding doors · Metal wheels · RELEX couplers (pages 40/138) · Length 18.4 cm (7-1/4")

7 Netherlands

4639 · Gondola · Netherlands Railways (NS) · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

8 France

4681 · Gondola · French Railways (SNCF) type E 3 01 · Metal wheels · RELEX couplers (pages 40/138) · Length 11.5 cm (4-1/2")

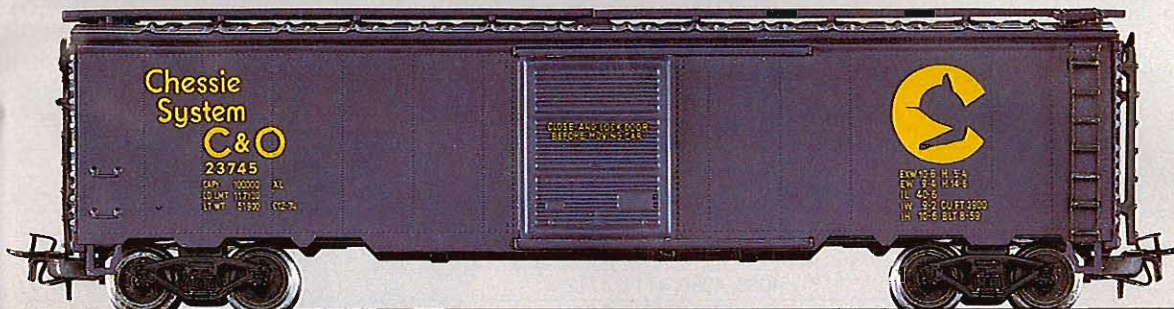
2
4698



3
4691



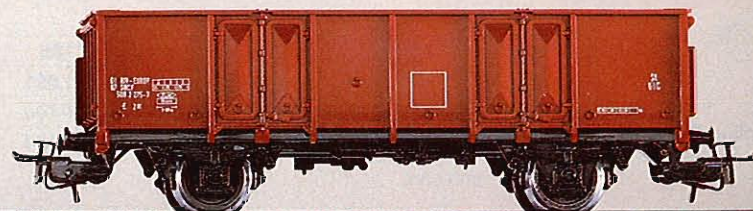
6 NEW
4564



7
4639



8
4681



Spare Parts for Cars

All spare parts can be obtained through your dealer.



7001 · Coupling Guide · Nickel plated steel · For testing couplers

7199 · Bottle of Oil · Contains about 10 cc of special oil for locomotives and cars

Couplers

21 005	Car 4018
21 583	Cars 4060, 4129 (front)
21 622	Cars 4060, 4129 (rear)
21 842	Cars 4631, 4635
21 951	Car 4071
21 954	Car 4071
32 399	Cars 4632, 4650, 4651, 4652, 4663
32 402	Car 4632
32 540	Cars 4067, 4079, 4080, 4100, 4101, 4102, 4103, 4104, 4105, 4106, 4107, 4108, 4633, 4644, 4646, 4664, 4694
70 154	Cars 4004, 4005, 4040, 4610, 4612, 4613, 4617, 4618, 4619, 4627, 4639, 4661, 4665, 4671, 4681
70 157	Cars 4074, 4084, 4410, 4411, 4413, 4414, 4415, 4419, 4422, 4423, 4424, 4425, 4426, 4428, 4429, 4430, 4431, 4432, 4440, 4441, 4442, 4443, 4460, 4473, 4474, 4475, 4674, 4677, 4678, 4685, 4692, 4693, 4695, 4696, 4697, 4698, 4699
70 158	Cars 4091, 4092, 4093, 4094, 4095, 4096, 4097, 4098, 4099, 4122, 4123, 4124, 4125, 4134, 4135, 4136, 4137, 4138, 4139, 4140, 4143, 4145, 4146, 4147, 4148, 4149, 4150, 4151, 4152, 4153, 4154, 4157, 4158, 4159, 4160, 4161, 4162, 4164, 4165, 4166, 4175, 4176
70 412	Car 4028

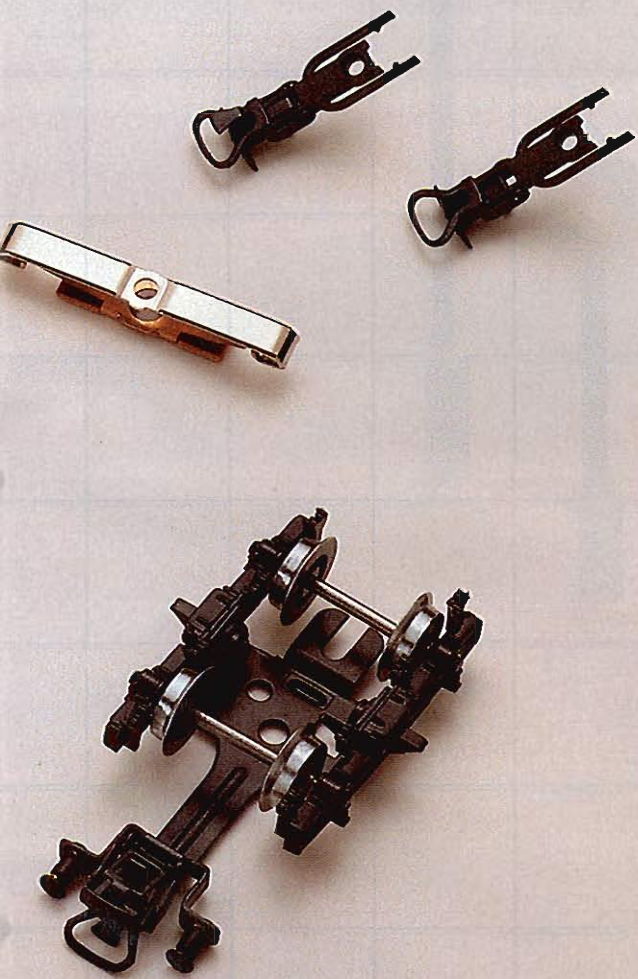
Trucks with Couplers











30 256	Car 4076
30 339	Cars 4026, 4045, 4051, 4052, 4053, 4054, 4064, 4085, 4087, 4089, 4090, 4111, 4112
30 417	Cars 4049, 4072, 4073
30 547	Cars 4066, 4068
32 289	Car 4563
32 311	Car 4564
32 339	Cars 4624, 4626, 4691
32 570	Car 4574

Sliders

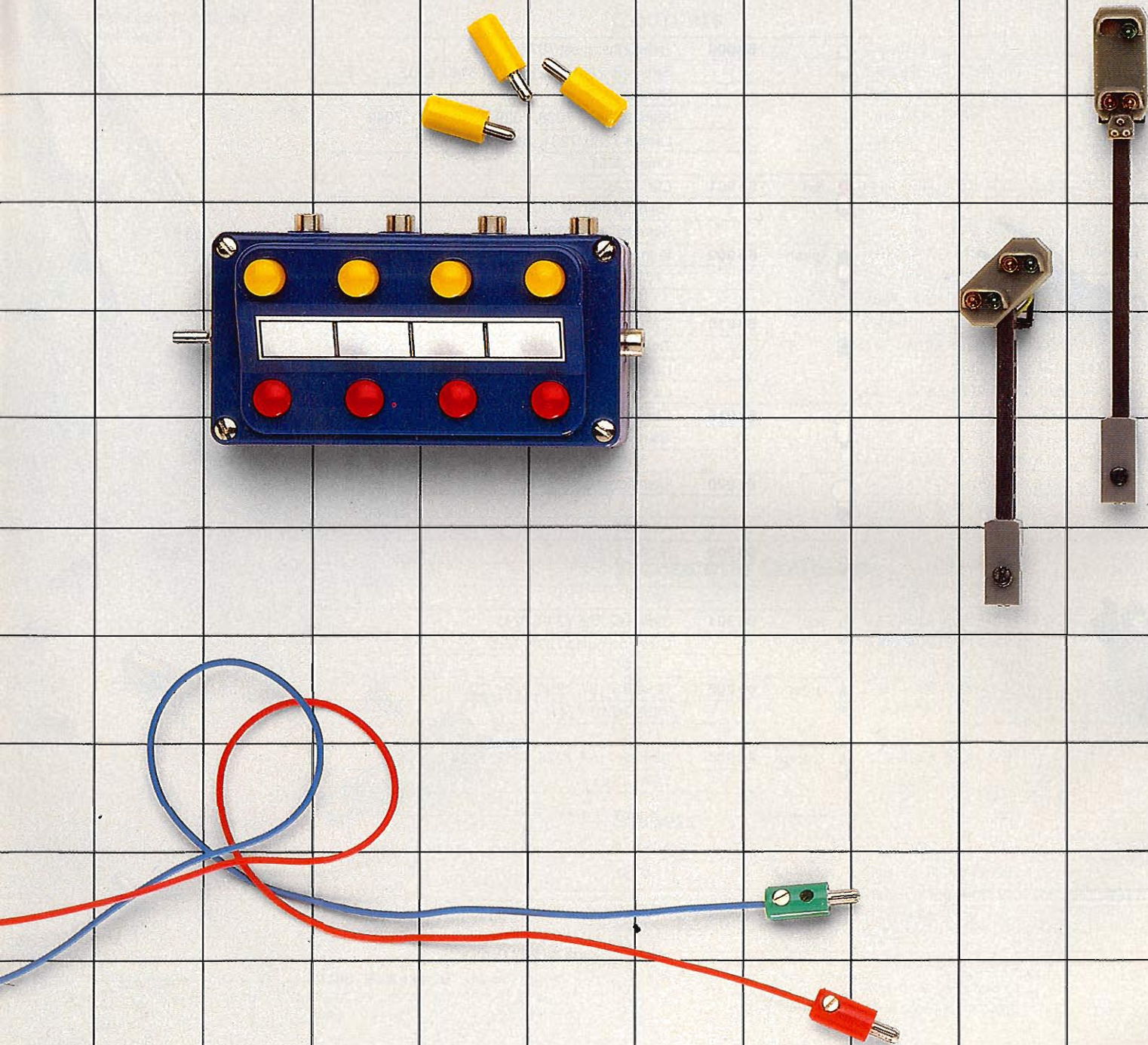
7164	Car 4028
7175	Cars 4018, 4053, 4089 Train lighting set 7197, 7198, 7320, 7322, 7323
7185	Cars 4060, 4129
31 051	Car 4103
31 100	Car 4160
41 494	Cars 4098, 4154, 4411 Train lighting set 7329

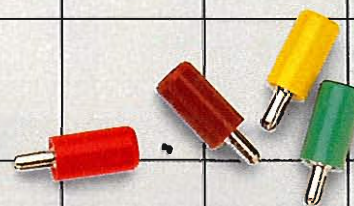
Light Bulbs



	60 000	Train lighting set 7077 Switches 2261, 5128, 5137, 5140, 5202 Bumper 7191 Signals 7036, 7038, 7039, 7040, 7041, 7042 Lamps 7280, 7281, 7282, 7283, 7284 Crane 7051
 red	60 001	Car 4028 Train lighting set 7079 Signals 7188, 7339
 green	60 002	Signals 7188, 7339
	60 010	Car 4018 Train lighting set 7323 Light pole 5113 Lamps 7046, 7047, 7048
	60 015	Cars 4028, 4060, 4089, 4129, 4411 Train lighting set 7197, 7320, 7322, 7329
	60 020	Train lighting set 7074
	60 200	Signal 7242
 red	60 201	Signals 7239, 7240, 7241 Crossing gates 7292, 7592
 green	60 202	Signals 7187, 7236, 7237, 7238, 7239, 7240, 7241
 orange	60 204	Signals 7187, 7236, 7237, 7238, 7240, 7241







At the Controls

Being the chief dispatcher is the essence of fun in model railroading. Throwing switches and easing the limited through the junction while letting an express fly by on a passing track and having yet a third train accelerate and slow down independent of the operations of other trains, aligning signals, clearing the main, sending a peddler freight out to service on-line customers, having trains trip electrically operated accessories . . . the list of operations possible with Märklin layout is practically endless. And it's all fun.

The Märklin technique is the fun technique.

Multi-Train Operation – No Problem

Adding another transformer is the simple way to operational diversity and more fun with model railroading.

When operating several trains independent of each other, it is important to have several track circuits, and each circuit should have its own transformer and feeder track. Keeping the individual track circuits isolated from each other on the layout is easy. Just use the center rail isolators 5022 or 7522 (page 161). This way passenger and freight trains can travel at respective speeds in prototype fashion.

The modeler has captured the fun of real railroading.





One Transformer = One Circuit

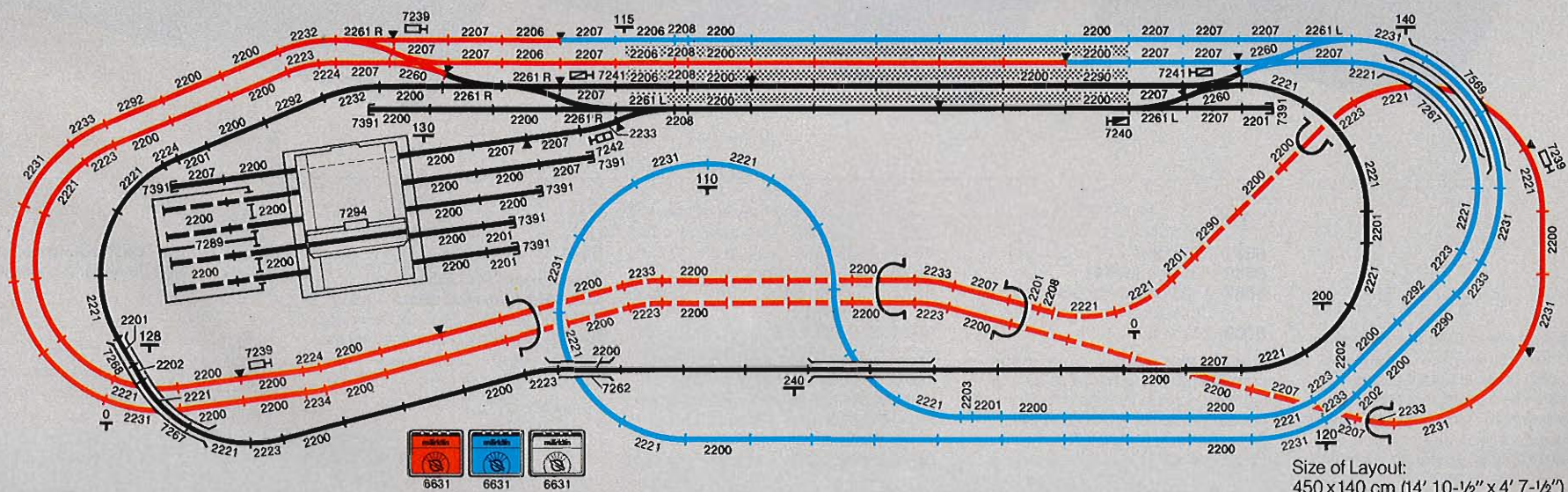
On our layout example three trains travel at the same speed. They all accelerate or decelerate at the same time – according to the transformer setting. By using signals, a train can be halted independent of the others. To change the direction of one train, the other trains must be in a red block.

Two Transformers = Two Circuits

As soon as the sidings are wired to a second transformer, independent switching operations can be accomplished without affecting operation on the main-line. The station and yards now have their own circuit.

Three Transformers = Three Circuits

Wiring the oval to a third transformer makes operation of this layout varied and more interesting. Now the trains can run on each circuit at separate speeds independent of each other.



Safety Tested Worldwide

The insulation on Märklin transformers is tested to several thousand volts. In addition, the transformers have a built-in circuit breaker which automatically cuts off power as soon as a short occurs. A standard wire and plug connects the transformer to the house current.

1
6671 16 VA

2
6631 30 VA

3
6611 40 VA



We guarantee trouble-free operation of Märklin trains only when they are used with original Märklin transformers. The transformers must be protected from dampness and are not designed for outdoor operation. Connect only to AC house current.

- 1**
6671 220 Volt
6660 100 Volt Japan
6667 110 Volt (60 Hz) USA ·
UL-tested
6669 240 Volt

Transformer · Output 16 VA · Track current adjustable from 4 to 16 volts · Lighting voltage 16 volts · Plastic housing · Weight 1.2 kg (2-½ lb) · Dimensions 125 x 135 x 75 mm (5" x 5-¾" x 3")

- 2**
6631 220 Volt
6620 100 Volt Japan
6627 110 Volt (60 Hz) USA ·
UL-tested
6629 240 Volt

Transformer · Output 30 VA · Track current adjustable from 4 to 16 volts · Lighting voltage 16 volts · Plastic housing · Red pilot light · Weight 2.1 kg (4-¾ lb) · Dimensions 158 x 135 x 75 mm (6-½" x 5-¾" x 3")

- 3**
6611 220 Volt
Transformer for Lights and solenoid-operated items · Output 40 VA · Voltage output approximately 16 volts AC · Plastic housing · Weight 2.0 kg (4-½ lb) · Dimensions 158 x 135 x 75 mm (6-½" x 5-¾" x 3")

- 4**
5022 · Center "rail" isolators · For M Track · Used for separating track circuits

- 5**
7522 · Center "rail" isolators · For K Track · Used for separating track circuits



The variety of operational possibilities using several transformers is suggested here. Endless variations are feasible when running three trains.

Power Consumption of Locomotives and Lights

Here is one way to figure out how many items a given transformer can power: The tank engines 3000 and the mainline steam engine 3085 need about 9 VA each; the express diesel 3021 requires about 12 VA. Whatever VA is left over can be used for lights

and accessories, allowing 1 VA per light bulb. Additional examples and more specific information appear in the booklet "Die Märklin-Bahn H0 und ihr großes Vorbild" (page 184) (German text).

4
5022



5
7522



It Moves Just like a Real Locomotive!

With the electronic power pack 6600 it is simple to duplicate realistic operations on Märklin H0 layouts.

6600 · Electronic Power Pack with Additional Functions · Connects to Märklin Light (Accessory) Transformer 6611 or to the accessory sockets of a Märklin transformer having 30 VA rating · Electronically controls speed and direction · Automatically regulates acceleration, deceleration, length of stop at station, all with override controls · Has internal output regulator so that actual speed of train is kept constant, independent of grades on the layout · Emergency button · Circuit breaker · Plastic housing · Weight 350 g (15 oz.) · Size 125 x 135 x 55 mm (5" x 5-3/8" x 2-1/8") · Additional wire and plugs available from Märklin

Adjustable Acceleration

In real life, a strong electric will accelerate faster than a small switcher. So, too, on Märklin layouts. The 6600 electronic power pack can regulate the acceleration for any

train most realistically, without jerking.

Constant Speed

On real trains, the engineer tries to maintain speed independent of the ups and downs of the terrain. He tries to avoid too much speed on a down-grade and too little on an upgrade.

Likewise on a Märklin H0 layout, the 6600 electronic power pack keeps the train speed constant.

Fully Automatic Commuter Operation

The 6600 electronic power pack can also be used to control the in and out operations seen at terminal railroad stations. Controlled by a remote control track, the train entering the

station glides to a halt, pauses a short, pre-determined moment, and then slowly backs out.

Easy to Connect

Several 6600 electronic power packs can be connected to any Märklin transformer and each controller will govern a single circuit. The 6631 transformer can also, by itself, control yet another circuit in the normal way. Thus, for example on the layout shown on page 159, a 6631 transformer controls one train, while two 6600 electronic power packs control the other two trains.

Adjustable Braking

With adjustable braking, a heavy freight train slows down more slowly and realistically than a self-propelled rail bus. Braking is also gradual and without jerking.

Automatic Station Stops

The 6600 electronic power pack also permits stopping a train at a station or other point on the layout. A remote control track is all that is needed to have a train slow down, stop, and

proceed again. This operation can be overridden for through trains.

Built-in Emergency Brake

With the emergency button on the 6600 electronic power pack, all commands can be immediately overridden and all trains will stop fast. The use of the switch will not influence any programmed command.

Direct Controls

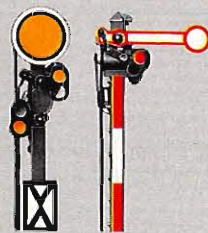
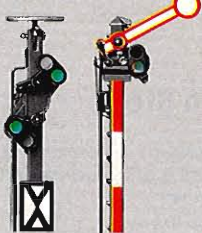
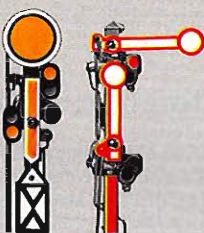

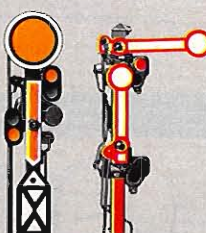

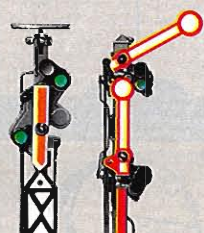
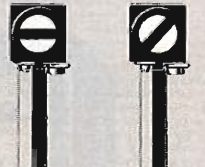
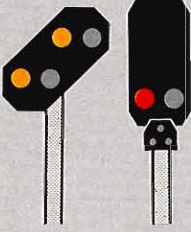
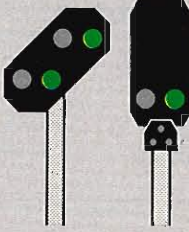
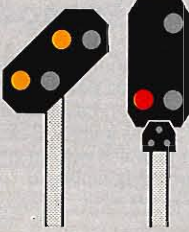
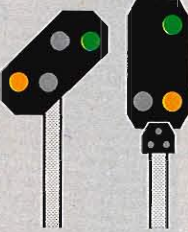
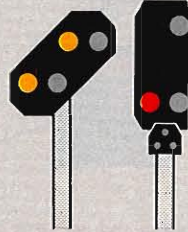
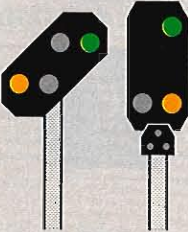
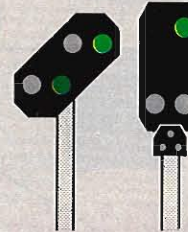
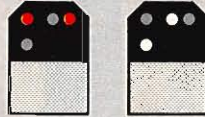
With the electronic power pack, all Märklin H0 locomotives can be operated like their real-life counterparts. Slow, jerk-free acceleration, effortless gliding across switches, and

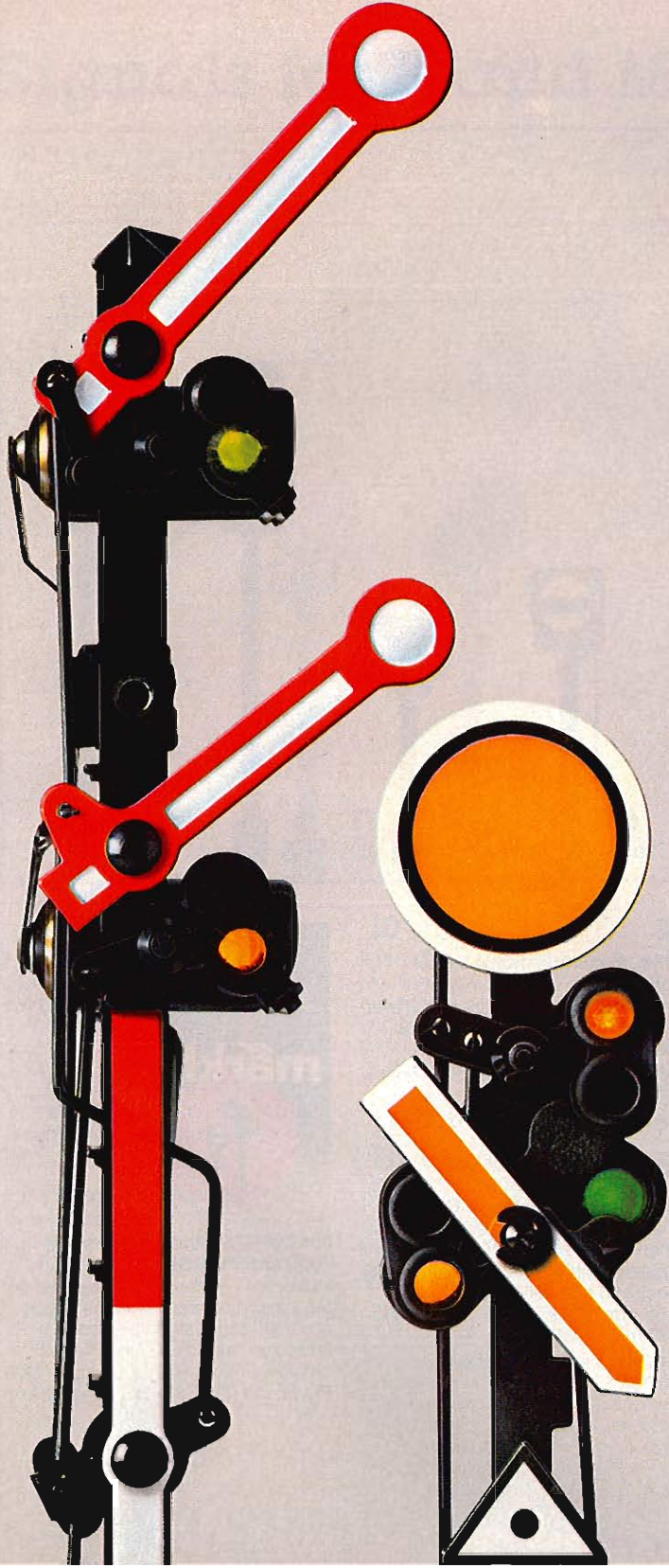
even the "creep" needed for effective marshalling of cars. The directional switch of the locomotives is also controlled by the 6600 electronic power pack.



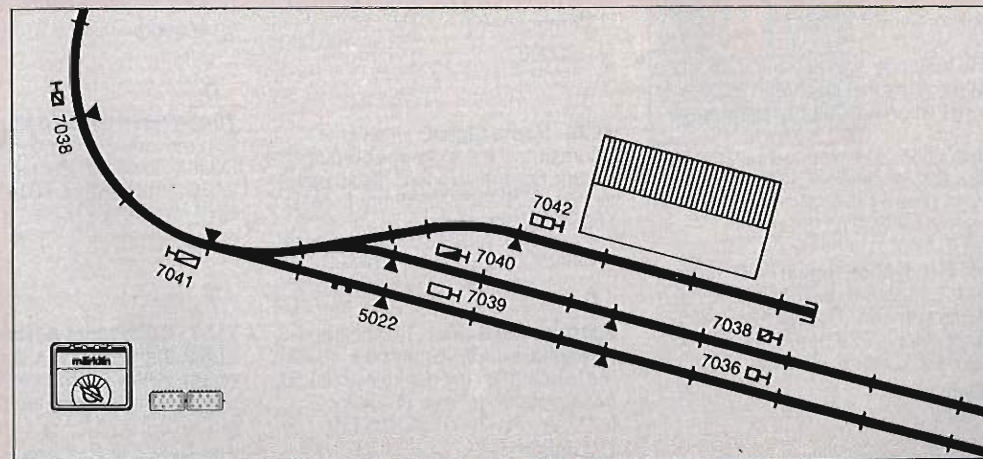
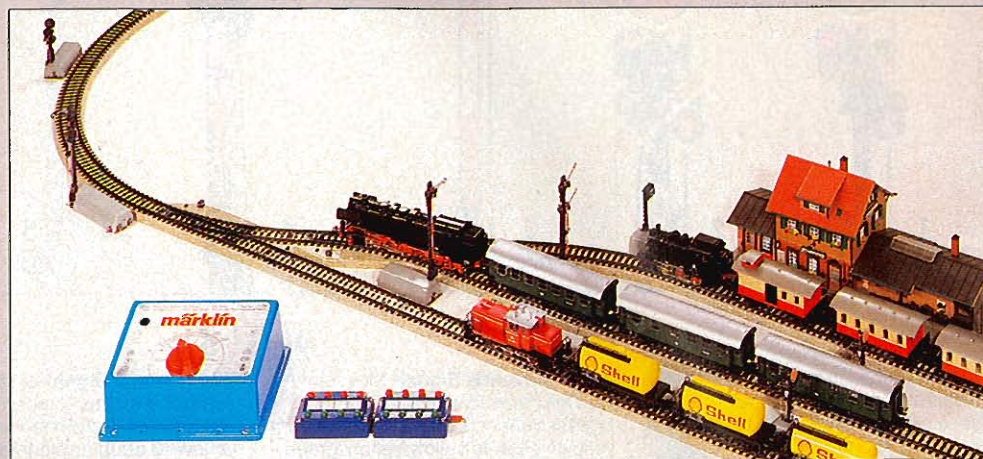
Signals Govern Traffic

Whether on a model railroad or on a real railroad, signals are the most important means of guaranteeing a safe and trouble free flow of traffic. Besides adding visual beauty to a layout, signals offer immeasurable possibilities for model railroading fun: When the signal is red, the train stops and does not move again until the signal says "all clear". Installing the exciting Märklin signals on a layout is simple and quick.

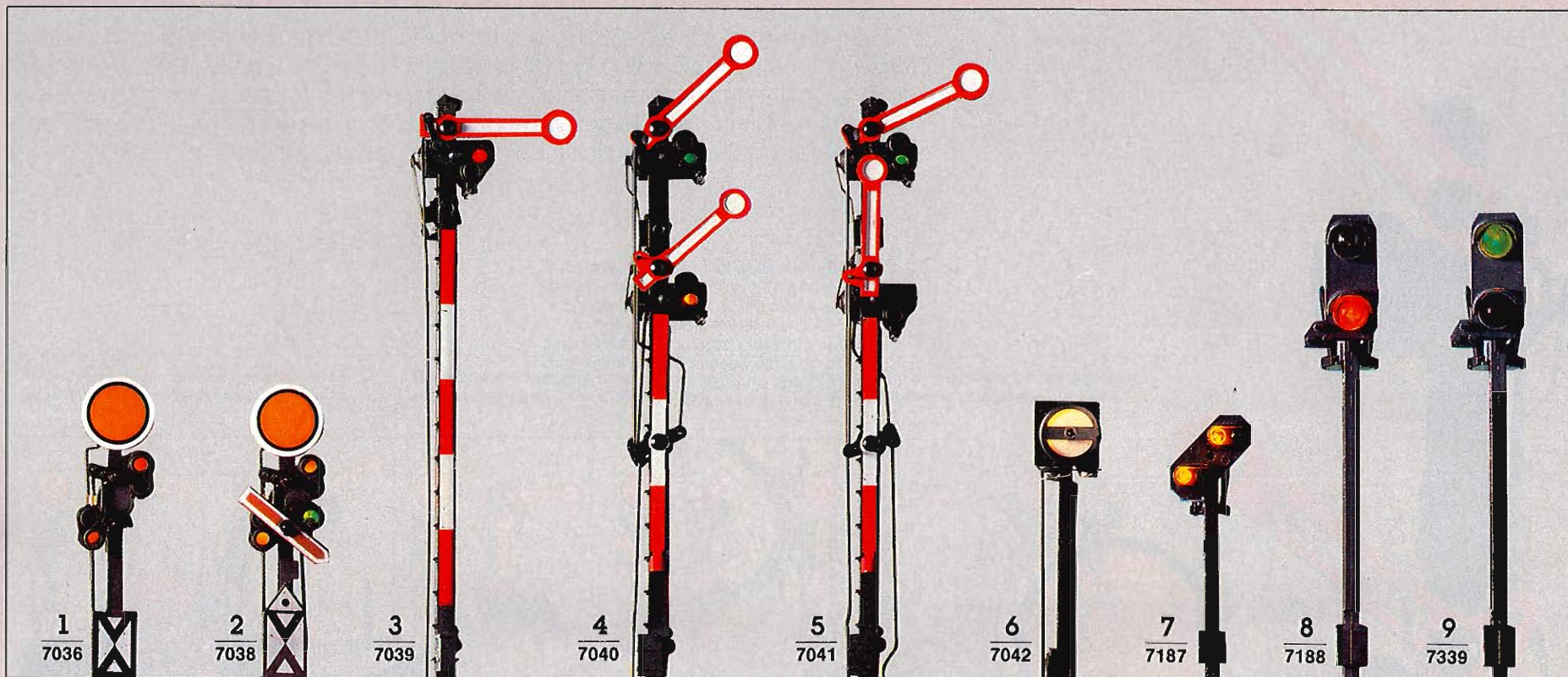
Usually used on mainlines or at stations, where there are no branches or sidings.		Usually used near stations where trains may be switched from the main track.		Usually used at junctions where diversion or direct routing is possible.			Usually used in terminal areas.								
 7036 7039		 7036 7039		 7038 7040		 7038 7040		 7038 7041		 7038 7041		 7038 7041		 7042 7042	
 7236 7239		 7236 7239		 7237 7240		 7237 7240		 7238 7241		 7238 7241		 7238 7241		 7242 7242	
Advance signal: "Prepare to stop" Home signal: "Stop"		Advance signal: "Proceed signal ahead" Home signal: "Proceed"		Advance signal: "Prepare to stop" Home signal: "Stop"		Advance signal: "Prepare to slow down" Home signal: "Proceed slowly"		Advance signal: "Prepare to stop" Home signal: "Stop"		Advance signal: "Prepare to slow down" Home signal: "Proceed slowly"		Advance signal: "Proceed signal ahead" Home signal: "Proceed"		Track closure signal "Do not enter" "Entry permitted"	



Signals allow for greater operating fun even on the smallest of layouts. While one train sits "in the hole", a second continues its trip around the layout. Just imagine for a moment the fun that is possible when operating trains from a station where all tracks are controlled by signals.



M Track Signals



All Märklin track closure and home signals influence train operation. These signals are activated either by a position control box (7072) or by a train passing over a remote control track. The signals include center-rail isolators and connectors.

The advance signals do not influence train operation. They are operated in conjunction with the home signals.

Instructions are included with each signal.

1

7036 · Advance Signal · Movable disc · Lights change from yellow/yellow to green/green · Double solenoid · Base plate · W 28 mm (1-1/8") · L 65 mm (2-9/16") · H 73 mm (2-7/8")
Q = 60000

2

7038 · Advance Signal · Movable disc and movable semaphore arm · Light sequence same as 7036 or from yellow/yellow to yellow/yellow/green · 2 double solenoids · Base plate · W 28 mm (1-1/8") · L 65 mm (2-9/16") · H 73 mm (2-7/8")
Q = 60000

3

7039 · Home Signal · One semaphore arm · Lights change from red to green · Double solenoid · Base plate · W 27 mm (1-1/16") · L 70 mm (2-3/4") · H 125 mm (5")
Q = 60000

4

7040 · Home Signal · Two coupled semaphore arms · Lights change from red to green/yellow · Double solenoid · Base plate · W 27 mm (1-1/16") · L 70 mm (2-3/4") · H 125 mm (5")
Q = 60000

5

7041 · Home Signal · 2 independent semaphore arms · Lights change from red to green or from red to green/yellow · 3 double solenoids · Base plate · W 27 mm (1-1/16") · L 97 mm (2-9/16") · H 125 mm (5")
Q = 60000

6

7042 · Track Closure Signal · Mast with movable front and rear discs · Double solenoid · Base plate · W 28 mm (1-1/8") · L 70 mm (2-3/4") · H 70 mm (6-3/4")
Q = 60000

7

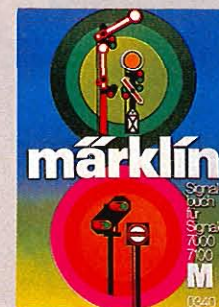
7187 · Color Light Advance Signal · Lights change from green/green to yellow/yellow · W 16 mm (5/8") · L 11 mm (7/16") · H 60 mm (2-3/8")
Q = 60202 green Q = 60204 orange

8

7188 · Color light home signal · Lights change from red to green · Double solenoid · Includes hand lever · Pair of sockets for connecting to a home signal 7187 · Base plate · W 28 mm (1-1/8") · L 70 mm (2-3/4") · H 90 mm (3-1/2")
Q = 60001 red Q = 60002 green

9

7339 · Color Light Home Signal · Changes from red to green manually · When signal is red, there is no current in block controlled by signal · Includes special 90 mm (3-1/2") track section W 55 mm (2-3/16") · L 90 mm (3-1/2") · H 90 mm (3-1/2")
Q = 60001 red Q = 60002 green



0342 M · Märklin Manual for the 7000 and 7100 Signals · Detailed instructions, with color illustrations, on the installation and use of the 7000 and 7100 series signals · Also has advice on how to use the universal remote control switch · 28 pages · Size 18 x 25 cm (7-1/8" x 9-7/8") · English text

Signals for K and M Tracks



The color light home signals and the track closure signals in the 7200 series have trips enabling them to control current in the catenary or in the center "rail".

The 7200 series signal masts including the 7242 frame can be set up separate from the signalling system. If so, bracket 7230 is required.

7230 · Bracket · For securing masts of the signals 7238, 7239, 7240, 7241, and the closure signal 7242 when they are being used independent of the signalling system

10

7236 · Color Light Advance Signal · Lights change from yellow/yellow to green/green · Includes bracket 7230 and base plate · W 16 mm (5/8") · L 28 mm (1-1/8") · H 67 mm (2-5/8")

⚡=60202 green ⚡=60204 orange

11

7237 · Color Light Advance Signal · Lights change from yellow/yellow to yellow/green · Includes bracket 7230 and base plate · W 16 mm (5/8") · L 28 mm (1-1/8") · H 67 mm (2-5/8")

⚡=60202 green ⚡=60204 orange

12

7238 · Color Light Advance Signal · Changes from yellow/yellow to green/green or yellow/green · Double solenoid operation for the yellow/green setting · Base plate · W 30 mm (1-3/16") · L 70 mm (2-3/4") · H 67 mm (3-1/2")

⚡=60202 green ⚡=60204 orange

13

7239 · Color Light Home Signal · Changes from red to green and track current is controlled by double solenoids · Includes hand lever · Base plate · W 30 mm (1-3/16") · L 70 mm (2-3/4") · H 90 mm (3-1/2")

⚡=60201 red ⚡=60202 green

14

7240 · Color Light Home Signal · Lights change from red to green/yellow and track current is controlled by double solenoid · Includes hand lever · Base plate · W 30 mm (1-3/16") · L 70 mm (2-3/4") · H 90 mm (3-1/2")

⚡=60201 red ⚡=60202 green
⚡=60204 orange

15

7241 · Color Light Home Signal · Changes from red to green or green/yellow and track current is controlled by double solenoid · Has additional solenoid for the green/yellow setting · Includes 2 hand levers · Base plate · W 30 mm (1-3/16") · L 95 mm (3-3/4") · H 90 mm (3-1/2")

⚡=60201 red ⚡=60202 green
⚡=60204 orange

16

7242 · Track Closure Signal · Changes from red/red to white/white and track current is controlled by double solenoid · Includes hand lever · W 30 mm (1-3/16") · L 70 mm (2-3/4") · H 18 mm (11/16")

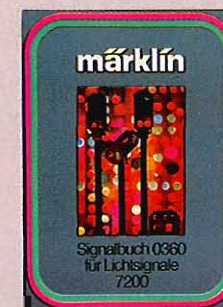
⚡=60200

17 7245



17

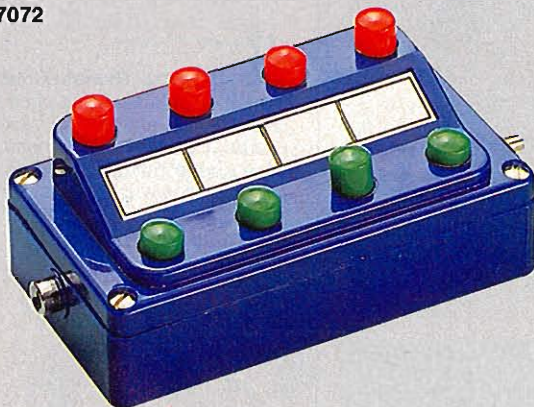
7245 · Universal Remote Control Switch · 2 single pole switches and one changeover switch for various circuits · Operate 3 accessories at once · Signal manuals 0342 and 0361 show additional uses · Double solenoid · Can be operated either by remote control track, position control box or manually · W 30 mm (1-1/8") · L 70 mm (2-3/4") · H 8 mm (5/16")



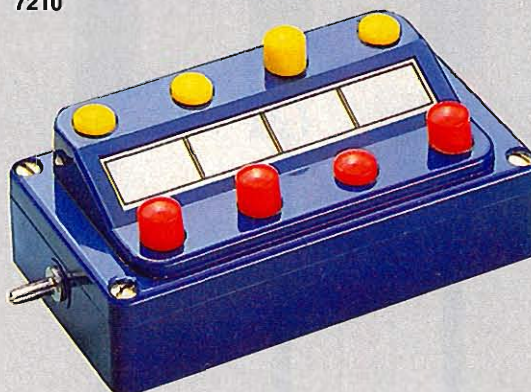
0361 K · Märklin Manual for the 7200 Signals · Detailed instructions, with color illustrations, on the installation of the 7200 series signals · Also has advice on using the universal remote control switch with K tracks · 48 pages · Size 18 x 25 cm (7-1/8" x 9-7/8") · English text

The Control Tower – A Railroad's Nerve Center

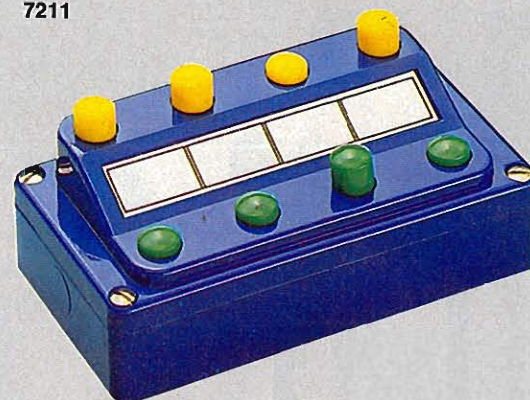
1
7072



2
7210



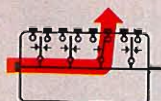
3
7211



Remote Operation

1

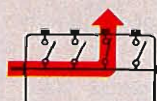
7072 · Position Control Box · Controls four circuits for solenoid-operated accessories momentary contacts · Position of buttons indicate position of switches, signals, etc. · Length 80 mm (3-1/8") · Width 40 mm (1-9/16")



Schematic of 7072
(with line 3 closed)

2

7210 · Control Box · For distributing power to up to four track or accessory circuits · For example, can control current to four yard tracks · Length 80 mm (3-1/8") · Width 40 mm (1-9/16")



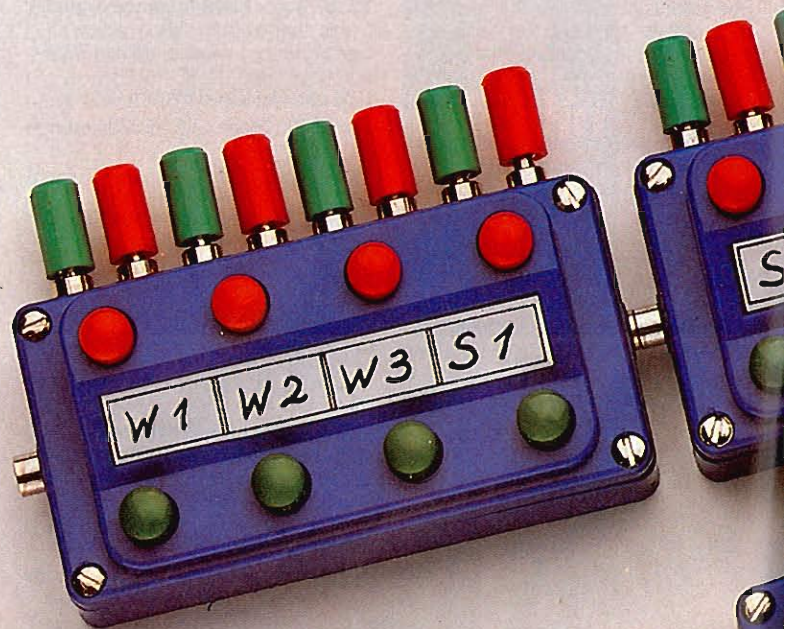
Schematic of 7210
(with line 3 closed)

3

7211 · Control Box · For controlling up to four track or accessory circuits · For example, controlling current to four yard tracks connected to separate circuits · Length 80 mm (3-1/8") · Width 40 mm (1-9/16")



Schematic of 7211
(with line 3 closed)



Märklin Circuits are Color Coded



Red = Track current (Transformer to center "rail" or catenary)



Brown = Ground lead from track or position control box to transformer



Yellow = Lights and accessories



Blue = Return lead for solenoid operated accessories to position control box or remote control track (having green, red, and orange plugs)

Hookup Wire

Extra-flexible stranded hookup wire, for all Märklin accessories · Copper, 24 strands x 10 mm (.004 in.) · 24 gauge, single conductor, color coded.

7100 · Wire
Gray · 10 m (33')

7101 · Wire
Blue · 10 m (33')

7102 · Wire
Brown · 10 m (33')

7103 · Wire
Yellow · 10 m (33')

7105 · Wire
Red · 10 m (33')



7000 · Staples · Pack of 50 · For securing wires to wooden bases

Sockets

7111 = brown
7112 = yellow
7113 = green
7114 = orange
7115 = red
7117 = gray



Plugs

7131 = brown
7132 = yellow
7133 = green
7134 = orange
7135 = red
7137 = gray



7209 · Distribution Strip · With 11 single pole sockets · Size 50 x 20 mm (2-3/4" x 1-1/16")



5022 · Center "rail" Isolators · For M Track · For separating track circuits



7522 · Center "rail" Isolators · For K Track · For separating track circuits



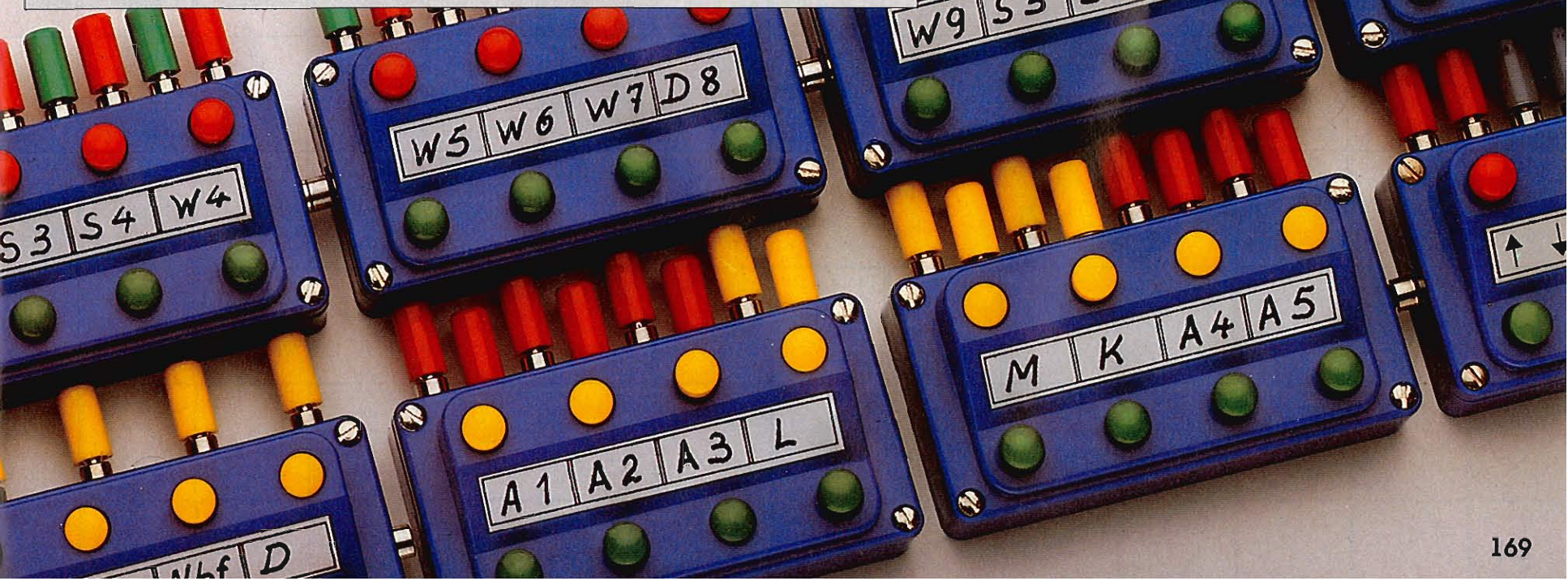
5004 · Center "rail" Feeder Wire · For M Track · Connects at joints in center "rail" · Length 750 mm (2' 5-1/2")

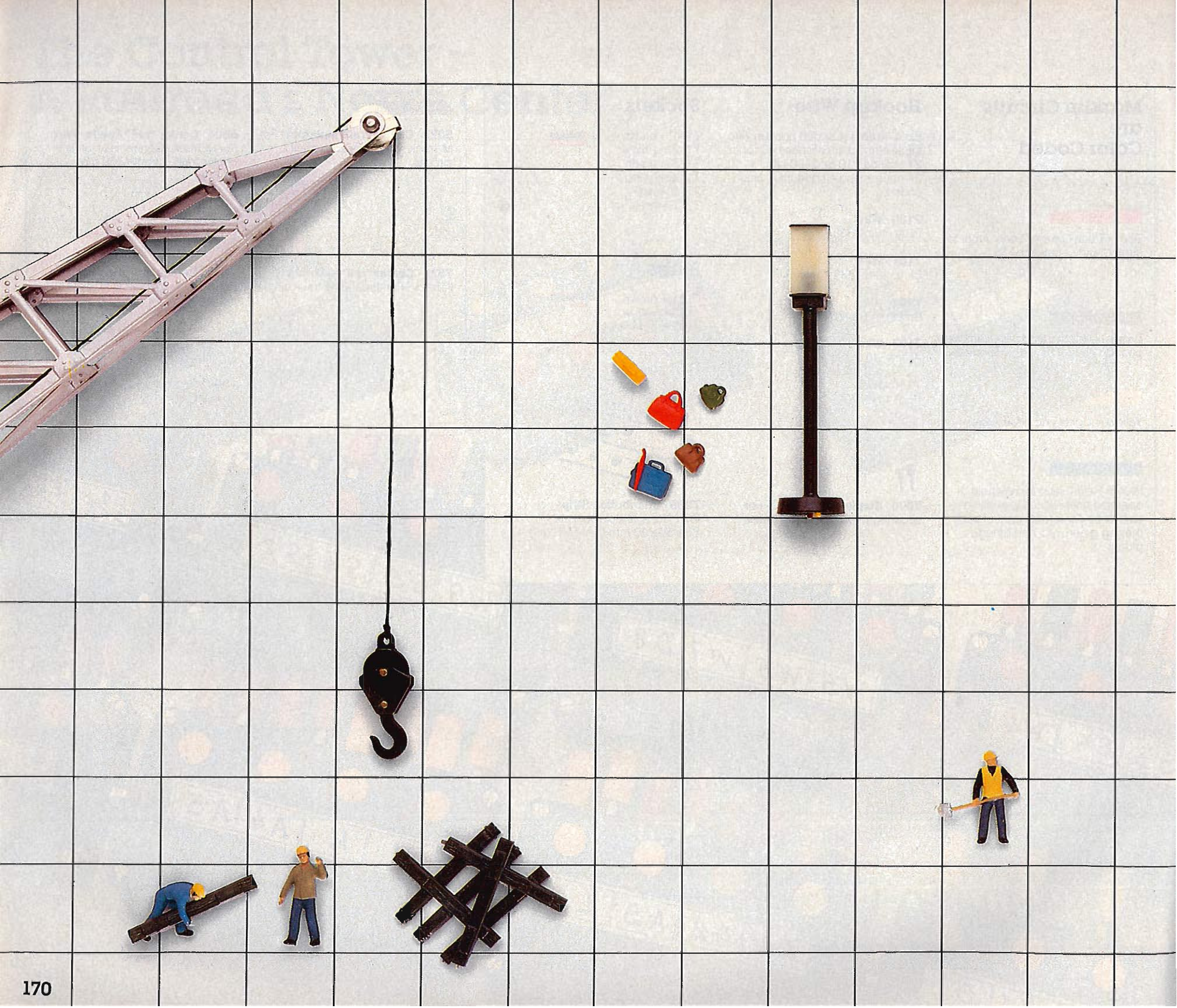


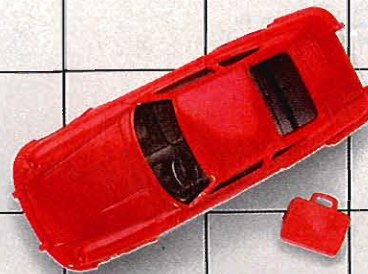
7504 · Center "rail" Feeder Wire · For K Track · Connects at joints in center "rail"



7500 · Ground Lead · For K Track · To establish ground connection



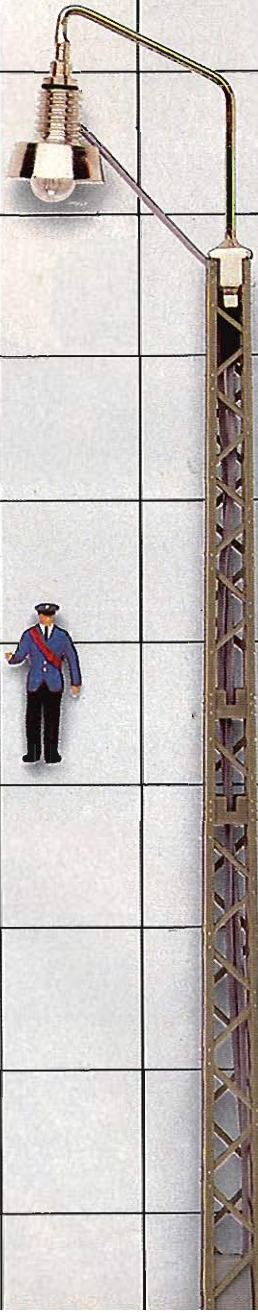




Purpose and Personality

From crossing gates to revolving cranes; it is what is located on and along a railroad that gives purpose and meaning to the railroad, model or real. Watch how a Märklin train will trip the crossing gates which will remain down until the last cars clear the crossing. Notice the colorful array of lights for nighttime operation. Add turnables, transfer tables, roundhouses, etc. for servicing the locomotives. Use the revolving crane to load and unload open-top cars.

All this is part of a railroad.



The Servicing Area – Where Locomotives are Readied

1

7186 · Automatic Turntable Set ·

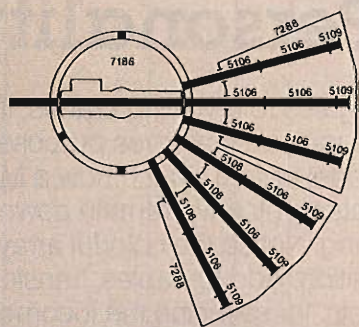
Includes a 360 mm (14-1/8") turntable which moves in either direction, plus necessary controls and wiring · Track current is automatically cut off to any track not in alignment with tablebridge

Pair of brushes = 60030

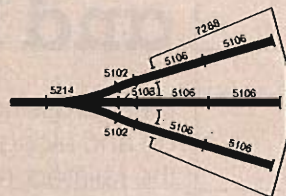
Adapter Track 2291

(page 34) allows use of the 7186 turntable with K Track layouts.

This illustration shows how two 7288 roundhouses connect to a 7186 turntable.



The 3-bay roundhouse 7288 can also be used with a 5214 3-way switch.

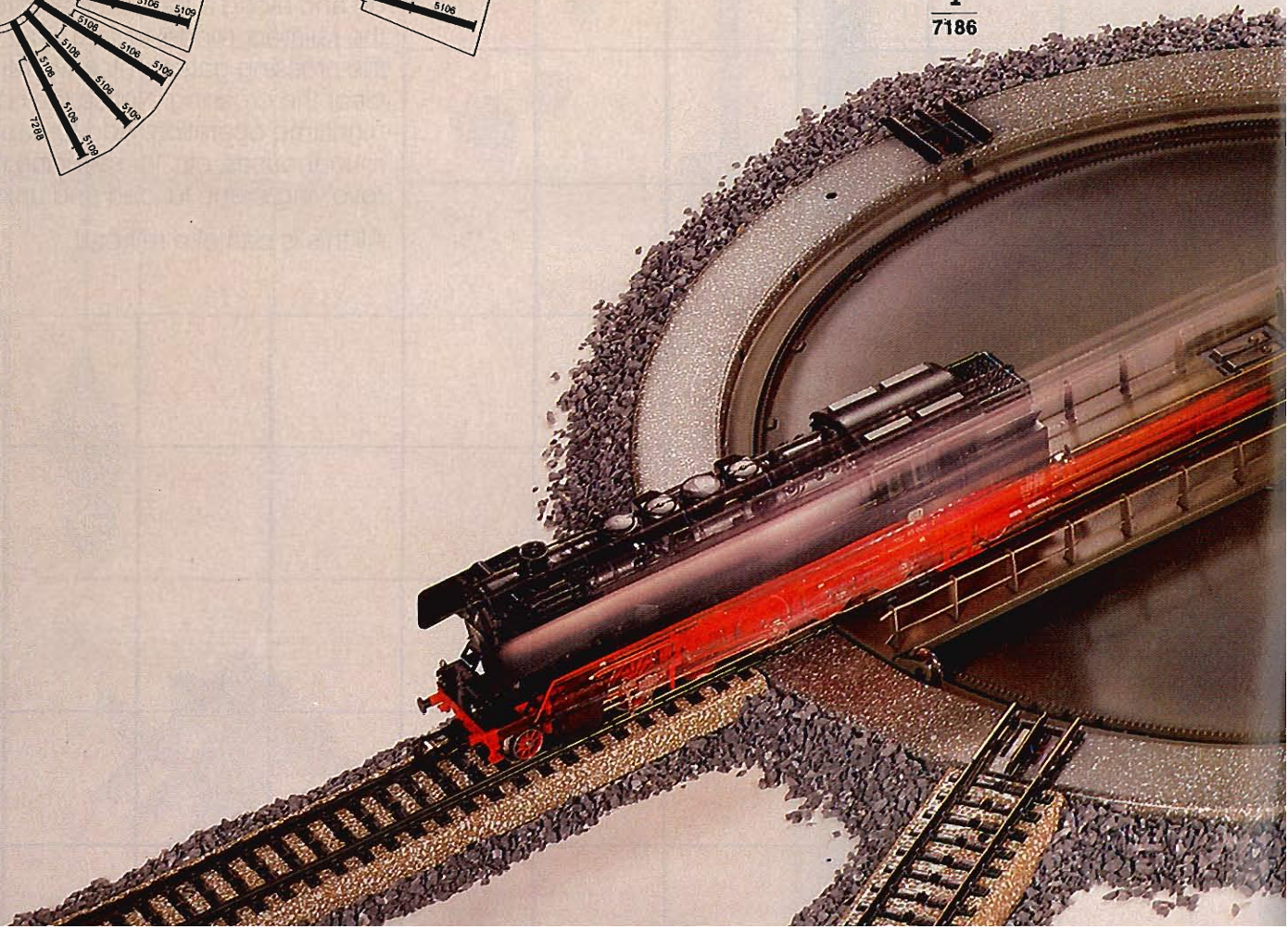


2

7288 · Locomotive Roundhouse Kit ·

3-bay roundhouse with molded plastic parts · Operating track doors · (Tracks not included) · Size 442 x 350 mm (1' 5-3/8" x 1' 1-3/4") · Height 128 mm (5")

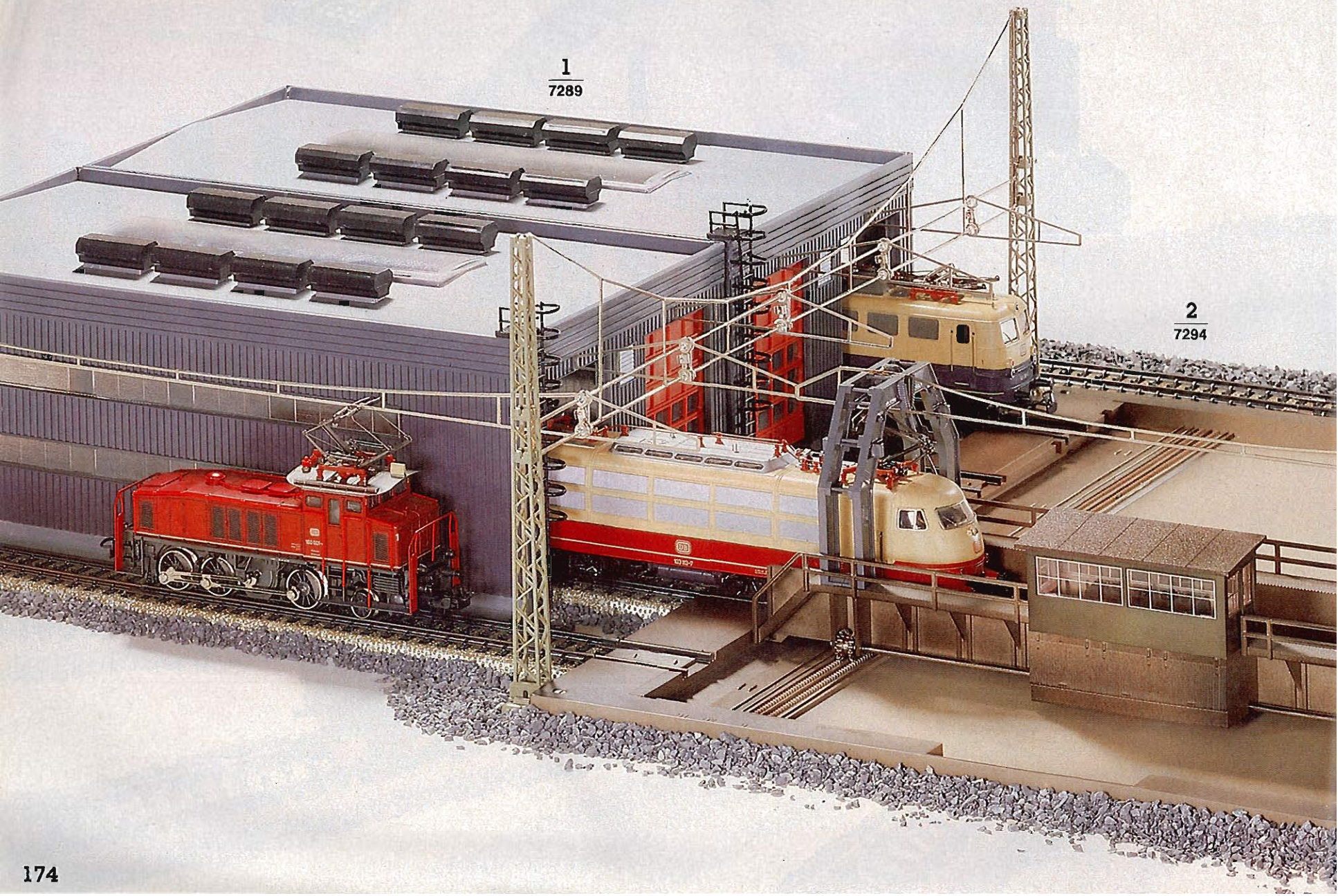
1
7186



2
7288



Modern-era Engine Facility

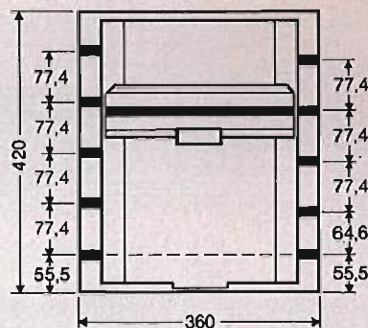


1

7289 - 2-bay Engine House Kit · Pre-colored plastic parts · 4 manual track doors · (Track sections not included) · Size 280 x 150 mm (11" x 6")

2

7294 - Transfer Table · 2 approach tracks and 8 stall tracks · Mates with engine house 7289 · Includes operating switch · Operates by electric motor · Current automatically cut off to tracks not in alignment with bridge · Each track can accept catenary · Base measures 360 x 420 mm (1' 2-1/8" x 1' 4-1/2")



3

7295 - Overhead Kit for Transfer Table · Includes 2 overhead support gantries · One piece catenary wire with leads soldered on · 10 short catenary wire for spur tracks

Adapter Track 2291 (page 34) for connecting K Tracks to the 7294 transfer table.

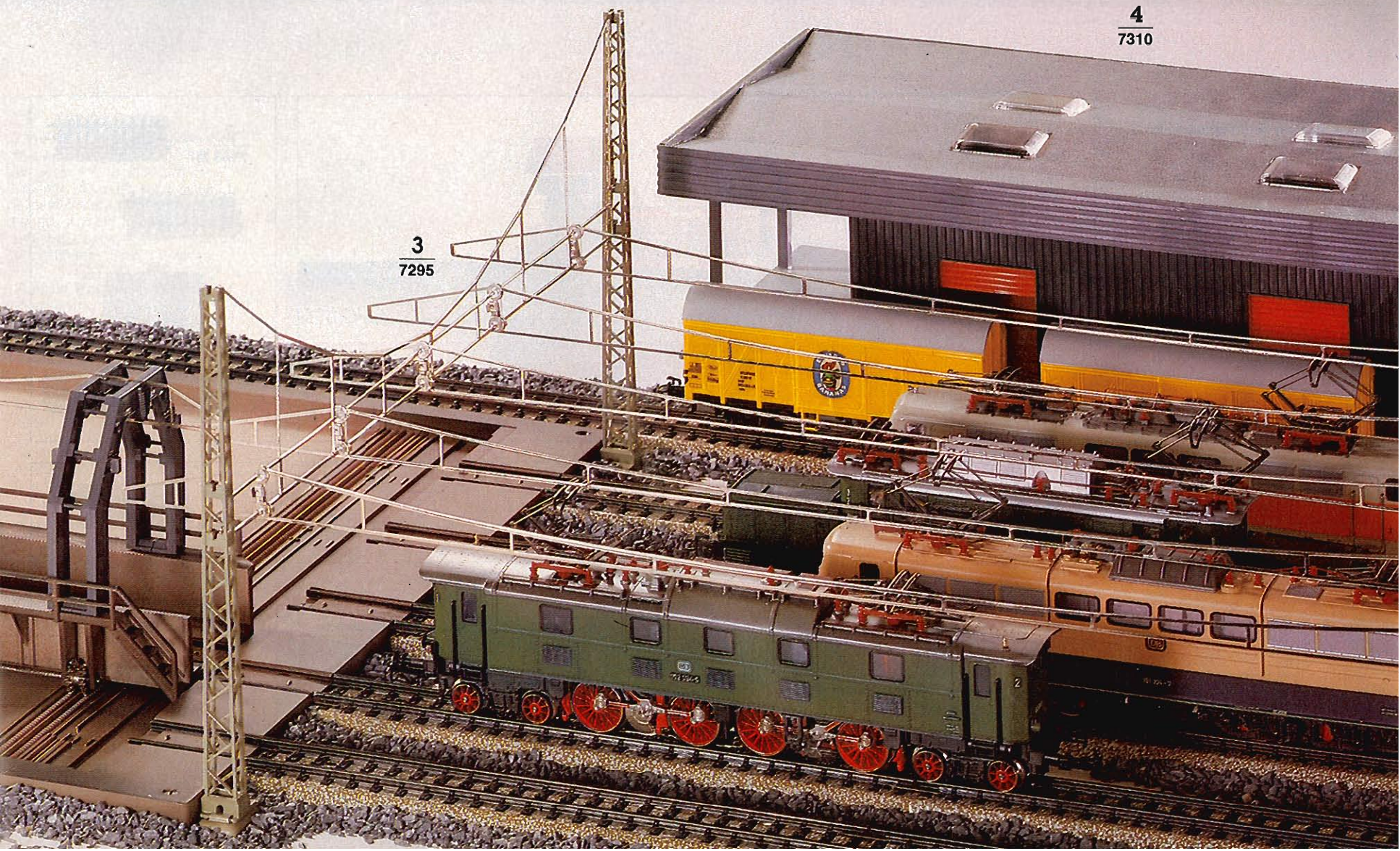
4

7310 - Freight House Kit · Pre-colored plastic parts · 8 manual roller doors · Measures 355 x 200 mm (1' 2" x 7-7/8")

The prototypes for these kits are at Maschen, Germany, Europe's most modern classification yard.

3
7295

4
7310



Grade Crossings

The gates close automatically when an approaching train trips the contacts. As soon as the last car clears the contacts, the gates open again. The length of contact section can be varied as required; for M tracks use 5115 and 5116, for K tracks use regular track sections.

Contact Track Sections

5115 · Straight · Length 180 mm (7-1/8")

5116 · Curved · Radius 360 mm (1' 2-1/8")

These M track sections, 5115 and 5116, are used to extend the contact track included with grade crossings 7192 and 7292. Note: **Only** these tracks can be used to extend the activation range of the crossing gates.

1

7192 M · Fully Automatic Grade Crossing · For M Track · Includes 2 solenoid-operated gates, watchman's shanty, crossing bucks, and 2 lengths of contact track sections · Base measures 180 x 90 mm (7-1/8" x 3-9/16")

2

7193 M · Extension Set · For 7192 · One set required for each additional track at multi-track grade crossings · Includes set of contact tracks and a section of highway

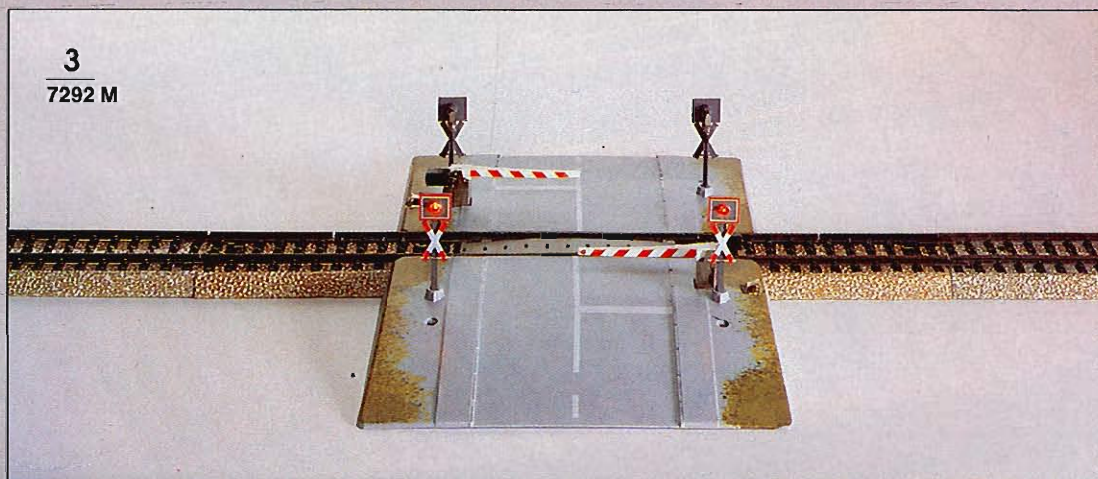
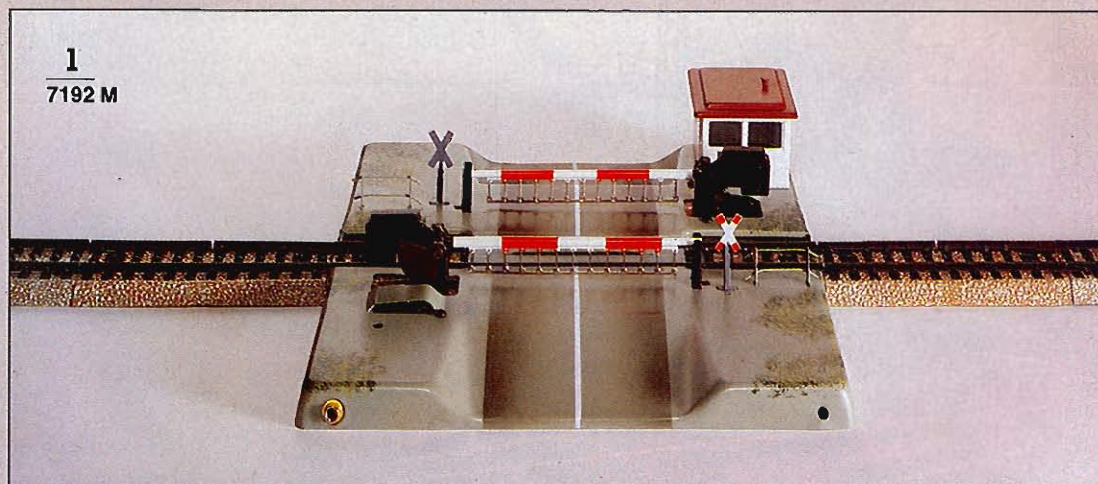
3

7292 M · Fully Automatic Grade Crossing · For M Track · Half length crossing gates · Includes 2 solenoid operated gates, 4 red warning lights (activated when gates are down) and a set of contact tracks (1 1/2 straight tracks) · Base measures 137 x 95 mm (5-3/8" x 3-3/4")

Q = 60201

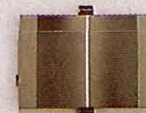
4

7293 M · Extension Set · For 7292 · One set required for each additional parallel track · Includes set of contact track sections and a length of highway adjustable between 43 and 78 mm (1-11/16" and 3-1/16")



2

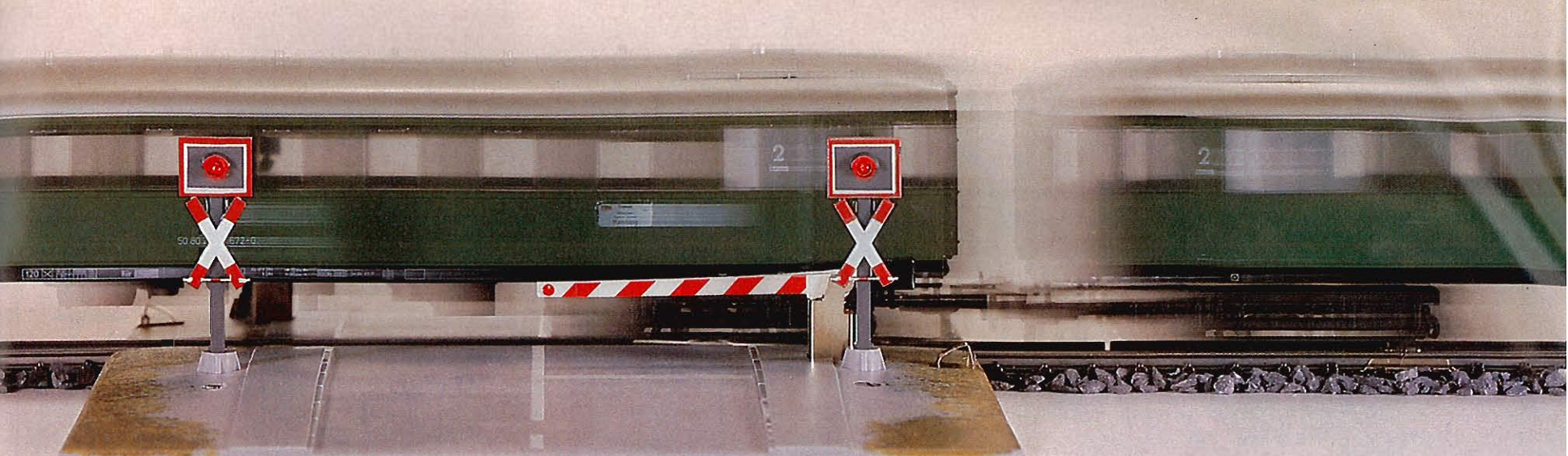
7193 M



4

7293 M





5

7390 M - Mechanically Operated Grade Crossing · For M Track · For single track · Includes built-in M track section · The gates are activated by a lever which is tripped by the train · Length of grade crossing same as 5106 track section · Base measures 135 x 180 mm (5-3/8" x 7-1/8")

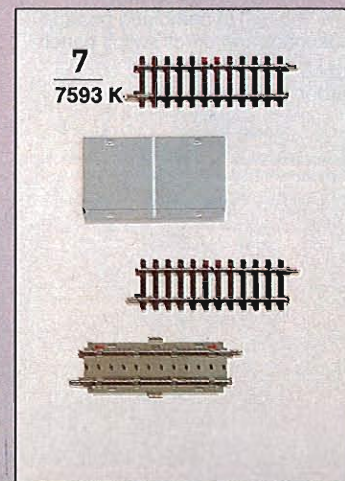
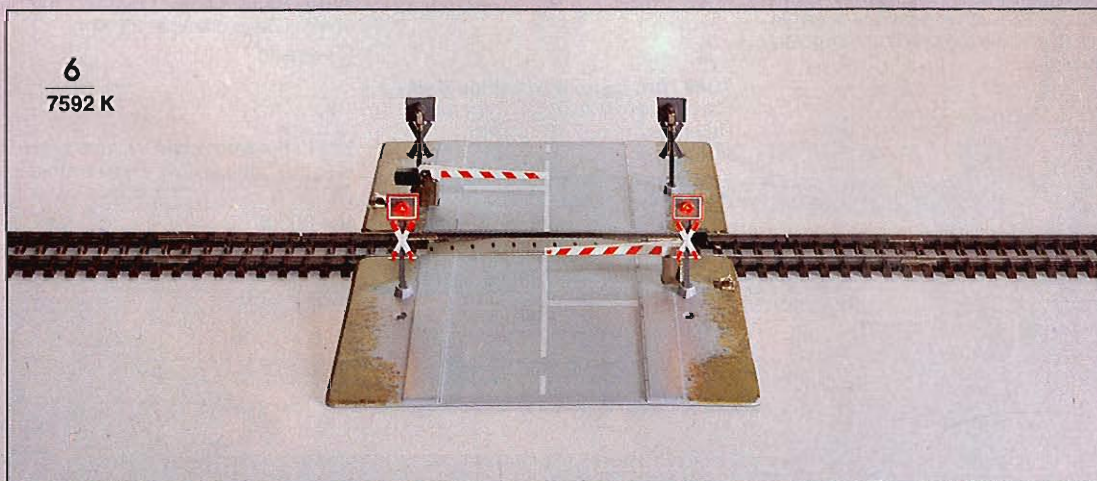
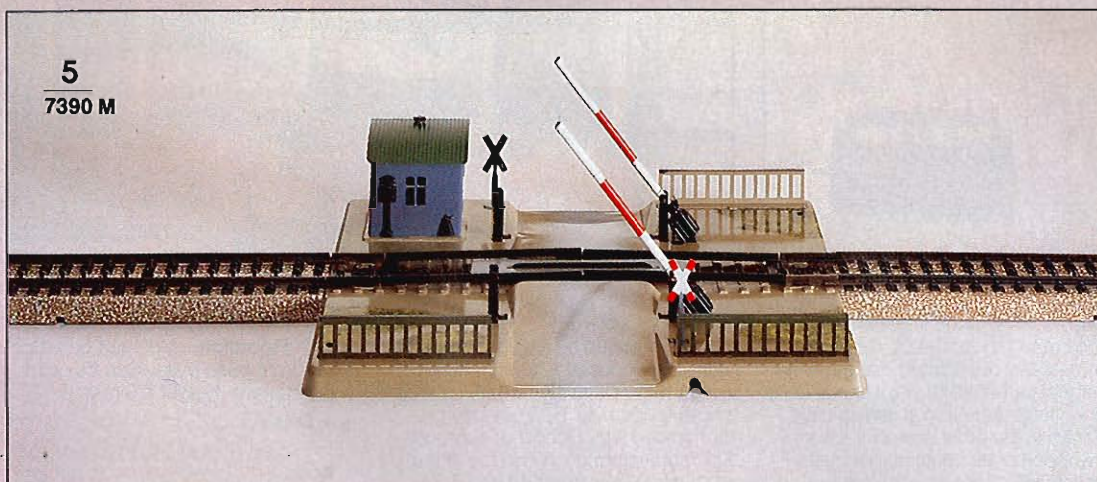
Adapter Track Section 2291
(page 34) for connecting K Tracks to grade crossings 7192 and 7390.

6

7592 K - Fully Automatic Grade Crossing · For K Track · With half length gates · Includes 2 solenoid operated gates, 4 red warning lights (activated when gates are down), and a set of contact track sections (1 1/2 straight tracks) · Base measures 137 x 95 mm (5-3/8" x 3-3/4")
Q = 60201

7

7593 K - Extension Set · For 7592 · One set required for each additional parallel track · Includes set of contact tracks (1 1/2 straight tracks) plus length of highway adjustable between 43 and 78 mm (1-1/16" x 3-1/16")



1
7051



1
7051 · Operating Crane with Magnet · Operates by remote control · Separate motors rotate crane and lift hook · Electrically operated magnet can lift iron or iron-containing objects · Boom adjustable by hand · Illuminated cab · Height 260 mm (10-1/4") · Base measures 90 x 90 mm (3-1/2" x 3-1/2") · 1 combined position control box and on/off switch panel
Light = 60000
Carbon brushes = 60030

The crane lets modelers load and unload cars realistically. Although the magnet can only lift iron, it can also lift other items if the iron is strategically hidden in the other items, for example, a wooden crate containing a metal "machine". Or remove the magnet, and simply use the big hook for extra fun. All of the varied activities possible with this fascinating crane are remotely controlled.



These lights can be activated either with control boxes 7210 and 7211 (page 168) or with the remote control tracks (pages 28/34). They can be illuminated either singly or in groups. For more information, see the signal manuals 0342 M or 0361 K (page 166).

2
7046 · Arc Lamp with Lattice Mast · Can be used with M Track overhead · Height 192 mm (7-9/16") · Base 14 x 28 mm (9/16 x 1-1/8")
Q = 60010

3
7048 · Arc Lamp · Height 156 mm (6-1/8") · Base diameter 29 mm (1-1/8")
Q = 60010

4
7283 · Floodlight · Mounted on lattice mast · With base plate · Can be used with catenary · Height 170 mm (6-3/4")
Q = 60000

5
7280 · Street Lamp · Height 117 mm (4-5/8") · Base diameter 25 mm (1")
Q = 60000

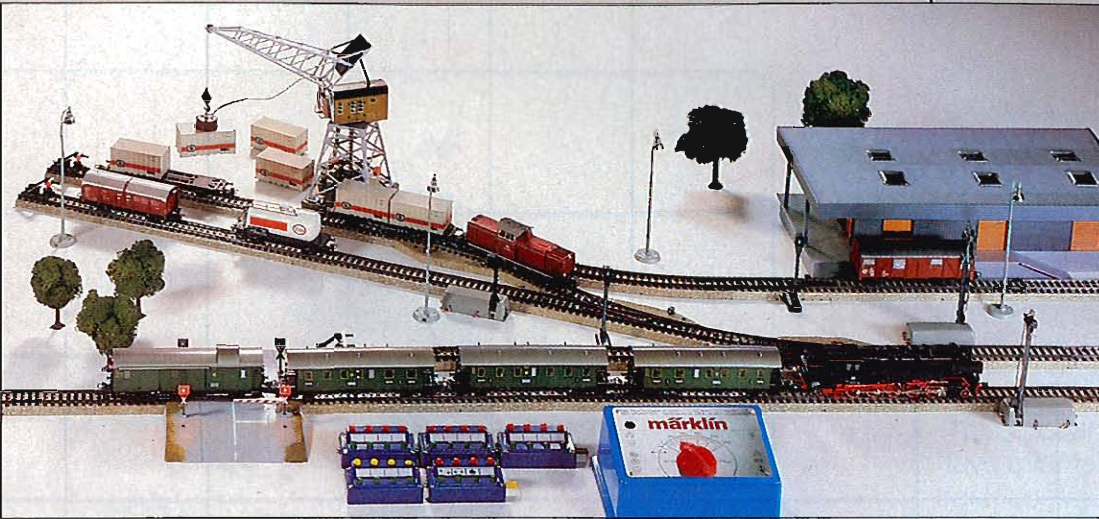
6
7281 · Platform Light · 2 lamp arms · Height 97 mm (3-7/8") · Base diameter 25 mm (1")
Q = 60000

7
7282 · Twin-Lamp Street Light · Height 120 mm (4-3/4") · Base diameter 25 mm (1")
Q = 60000

8
7284 · Park Light · Height 63 mm (2-1/2") · Base diameter 15 mm (5/8")
Q = 60000

9
7047 · Modern Street Light · Height 127 mm (5") · Base diameter 27 mm (1-1/16")
Q = 60010

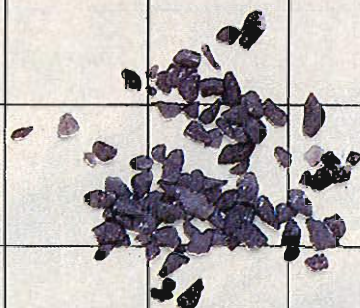




In the beginning it was just a one track line. Now it's a big, heavy-duty, exciting railroad complete with grade crossings, remote control cranes, switches and lots of track.







Express Yourself

The world of H0 railroading is an excellent medium for anyone to give free reign to his creativity. From basic design to that final touch, Märklin model railroading lets anyone create the world of their dreams.

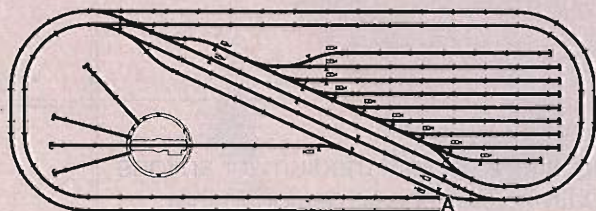
The possibilities are endless! Lay a simple oval on a 4x8, or have a fantastically sceniced layout with the most elaborate track configurations. The trains can be controlled by the transformer, or, better yet, by the fine line of signals, or they can be automatically operated to mimic the real life operations of the High Iron.

Everyone can find what they want with Märklin H0.



Fun at Three Levels

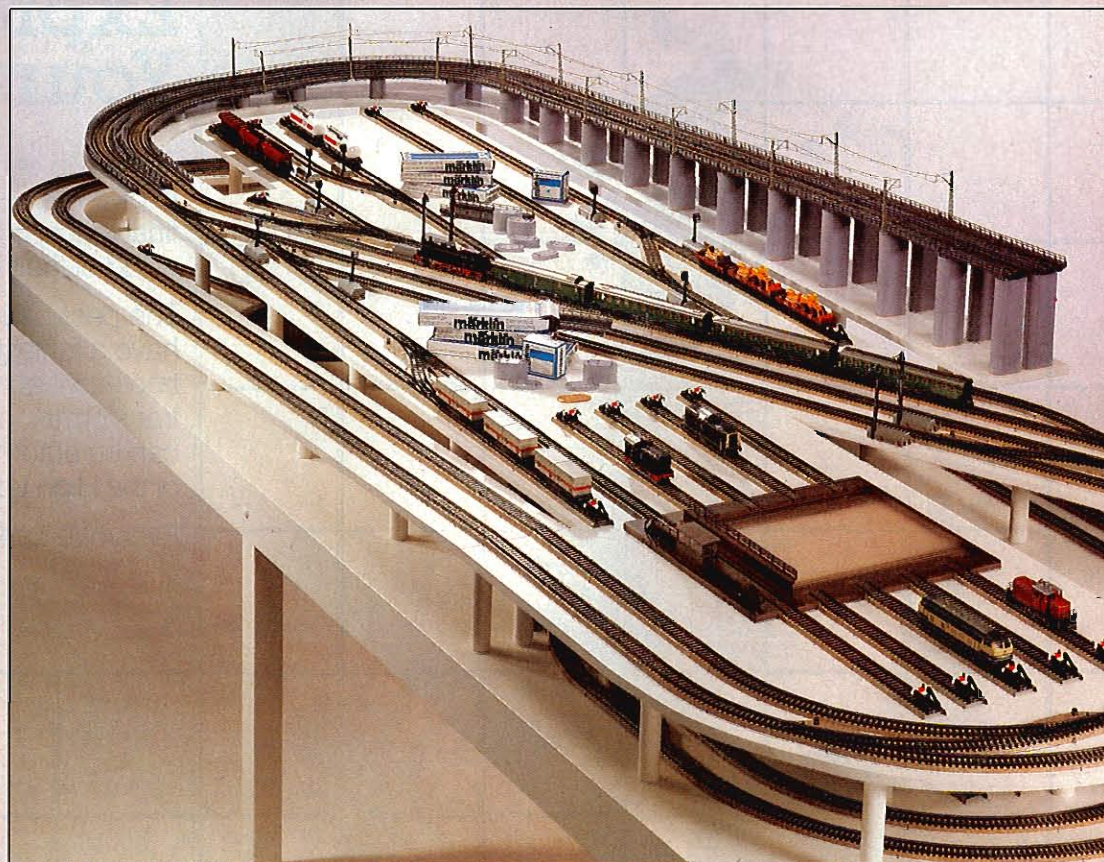
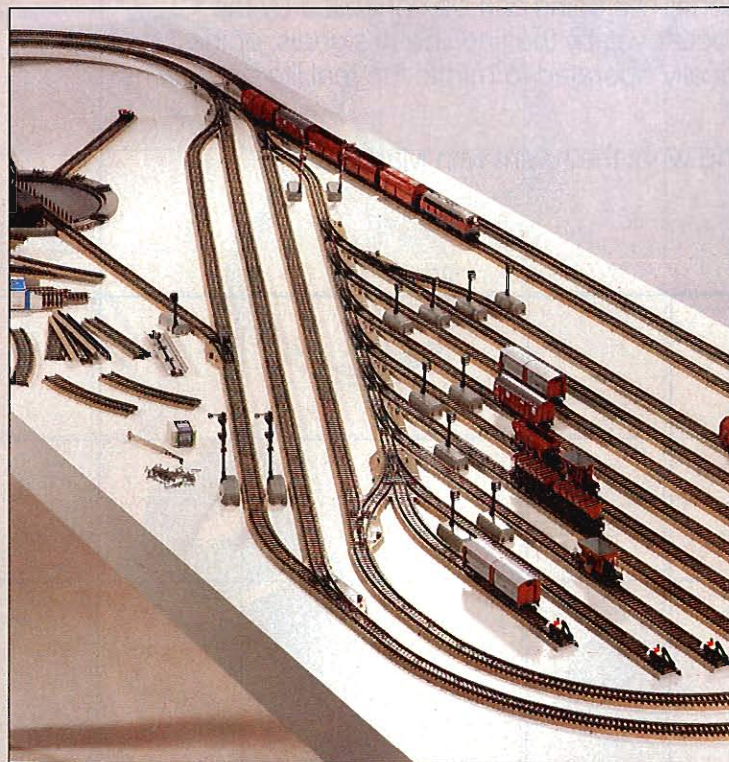
One of the best ways of getting more railroading into limited space is to build in levels. In fact, every layout can be extended in this manner with little expense.



Lower level with hidden station and return loop

Wooden ramp to the middle level

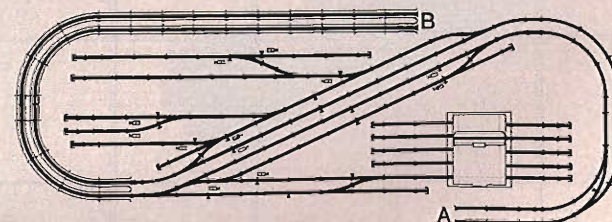
Layout size: 350 x 130 cm (11' 5" x 4' 4")

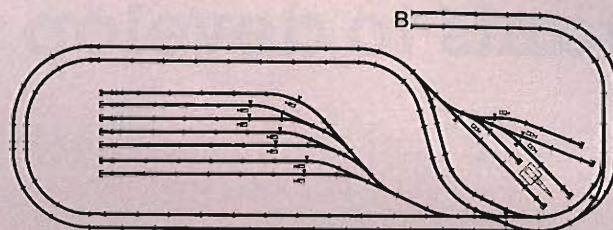


Middle level with through station and multiple sidings

Ramp made of Märklin bridges to upper level

Layout size: 350 x 130 cm (11' 5" x 4' 4")

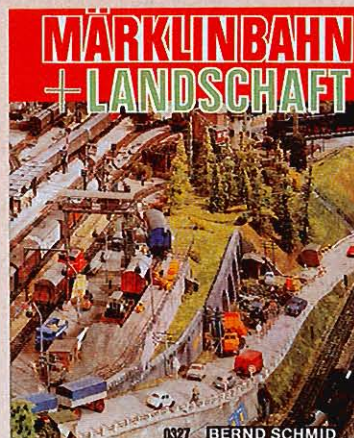




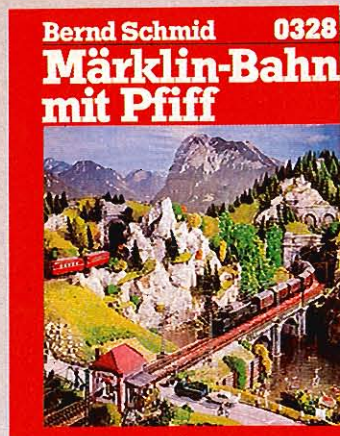
**Upper level with terminal and
second return loop**
Layout size: 350 x 130 cm (11' 5" x 4' 4")



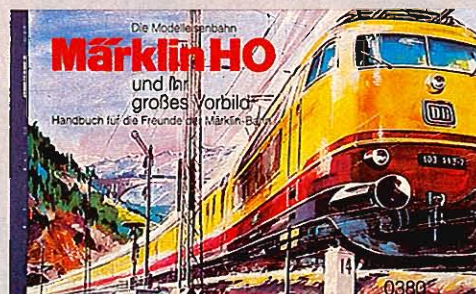
For the Pros – and everyone who wants to develop their skills



0327 · Märklin-Bahn + Landschaft ·
By Bernd Schmid · An excellent aid for building self-designed layouts · Technical details, roadbed design, landscaping and accessory information · In-depth discussions · Well-illustrated, many photos in color · 192 pages · Size 16.4 x 20.3 cm (6-1/2 x 8") · German text



0328 · Märklin-Bahn mit Pfiff · By Bernd Schmid · Many additional tips on railroad construction for the more ambitious modeler · The "How" in book 0327 is explained as a "What" · All kinds of construction projects discussed in depth · Well-illustrated, many photos in color · 262 pages · Size 22 x 17 cm (8-3/4" x 6-3/4") · German text



0380 · Die Märklin-Bahn H0 und ihr großes Vorbild · A Märklin railroaders' handbook · Suggestions on how to build a Märklin layout by noting the comparisons between the models and their prototypes · Chapters on signals, cars, engines, accessories, operations and much more · 228 pages · Size 15 x 24 cm (5" x 9") · German text



The magazine for those who would like to get more out of their Märklin hobby

Each copy brings an abundance of ideas, tips and information. Everyone who likes model railroading, whether beginner, advanced or armchair modeler, will find something of interest in this colorful magazine.

The hefty illustrated 60-page Märklin magazine offers:

- Layout construction with scenery details
- Märklin modelers report on their layouts
- Märklin models and their prototypes
- Topical and historical reports on real railroads
- German and foreign railroads
- Construction articles for engines, cars, accessories
- New Märklin items are unveiled
- Reader forum and book reviews
- Model railroad electronics
- Reports from the House of Märklin

The German language magazine appears four times each year – Mid-February, May, August, and November.

Available through hobby shops or from Modellbahnen-Welt Verlags-GmbH, Postfach 9 40, D-7320 Göppingen, Federal Republic of Germany.

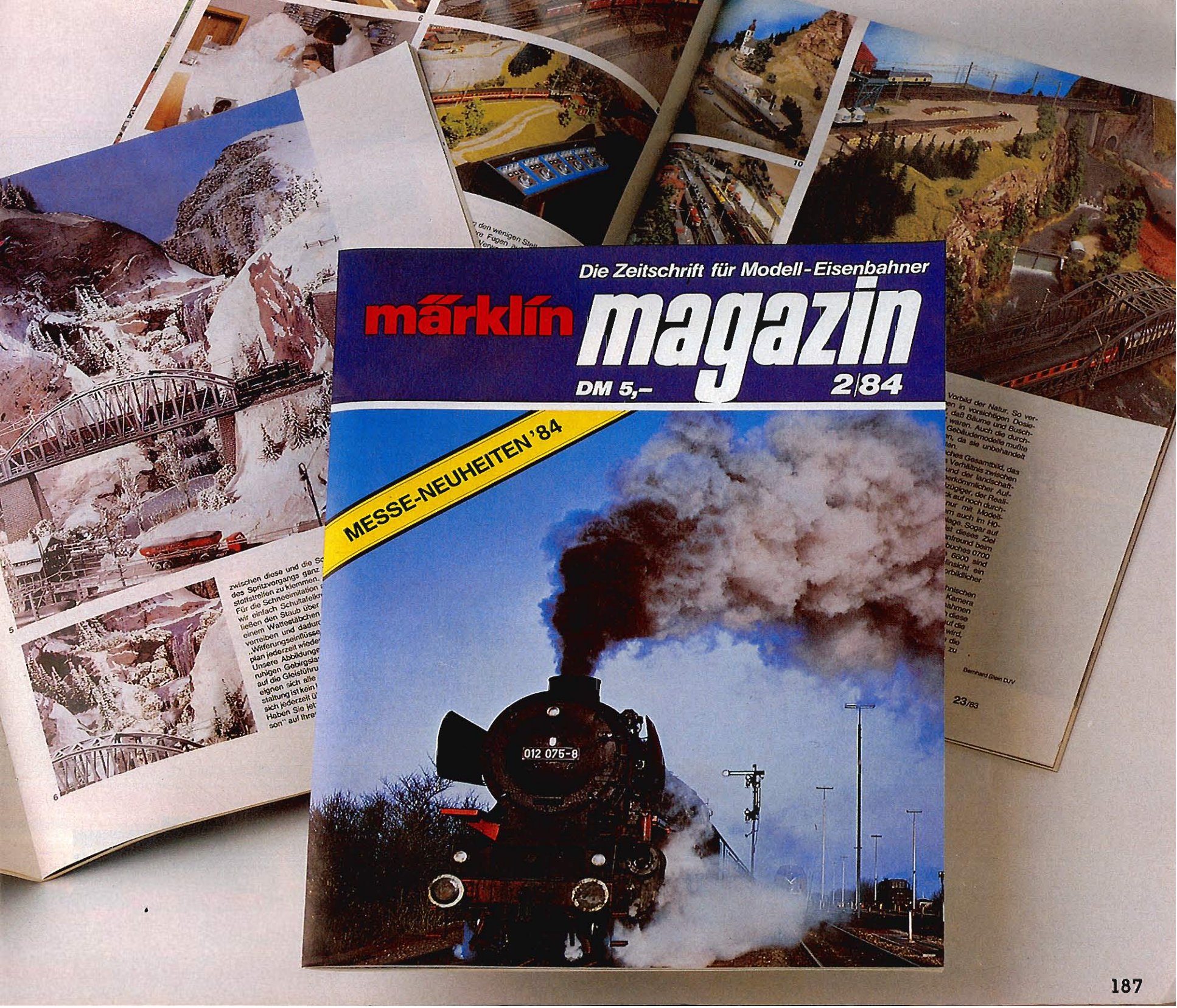


Ausführung

Der Unterbau der Anlage entstand in Form einer kombinier-
ten offenen Rahmen- und Spantenbauweise. Sie dient als
Träger für Fliegengitter und Alabastergips-Aufbau. Die
Struktur der Felsformationen wurde mit Stechbohrern her-
ausgearbeitet. Mauerwerk, Brückensplanken und Tunnelportale
bestehen aus den neuen geschäumten Mauerplatten. Zur
Gestaltung des Wasserlaufbetts dienten diese durch
„Einsetzen“ mit Nitroverdünnung. Als Wasseroberfläche
wurden zur Isolation nicht die normalen Kontaktgleise ver-
wendet, sondern an den bezeichneten Stellen – vom Bahn-
durchgesägt. Der dann isoliert liegende Schienenabschnitt
dient zum Anschluss des Schrankenkontaktes.

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dient zum Anschluss des Schrankenkontaktes.

naheher Gesamteindruck entsteht, ist vor dem Auf-
unverdünnten weißen Dispersionsfarbe genau
legen, wo überhaupt Schnee liegenbleibt. Dies
entsprechend geneigten Flurpartien vor allen
Bäume, Zaunoberkanten, Mastkappen, wasser-
von Brückentragwerken, usw. Größere Schnee-
fordern ggf. einen mehrmaligen Farbauftrag –
In die letzte, noch nasse Farbschicht wird –
einem feinen Sieb – weißes Glasdianthol ein-
dem „Schnee“ den gewünschten Glitzer
(für diese Anlage ca. 500 g). Der miche-
überreichten Asphaltstraße läßt sich ebenfalls
dieser Anlage ca. 500 g). Der miche-
feuchten Schwamm größtenteils wieder ab-
Für die feine Schneeaufgabe der Gleis-
Humbrol-Farbe mit einem kleinen Farb-
ausgespritzt. Die Schienenoberkanten
einem benzingetränkten Lappchen so
zwischen. Damit der Farbnebel die K-
den Weichenzungen nicht beeinträch-



Die Zeitschrift für Modell-Eisenbahner

märklin magazin

DM 5,-

2/84

MESSE-NEUHEITEN '84

012 075-8

Vorbild der Natur. So ver-
en in vorsichtigen Dosen
das Bäume und Busch-
Gebäude-Modelle müde
ten.
ches Gesamtbild, das
Verhältnis zwischen
und der landschaft-
verknüpflicher Auf-
auf noch durch-
nur mit Modell-
im auch im Mo-
lage. Sogar auf
ist dieses Ziel
infundiert beim
buches 0700
in 6800 sind
einsicht ein
erbildlicher.

hischen
Kamera
nahmen
diese
auf die
wird,
die
zu

Bernhard Stein DUV

23/83

zwischen diese und die So
des Spitzvorgangs ganz
stoffscheitern zu klemmen.
Für die Schneeeinleitung
Wir einfach Schuttfächer
ließen den Staub über
einem Wattestabchen
verreiben und dadurch
„Wirferungs-einflüsse“
plan jederzeit wieder
Unsere Abbildung
ruhigen Gebirgs-
auf die Gleislöhne
eignen sich alle
staltung ist kein I
sich jederzeit U
Haben Sie jet
son“ auf Ihre

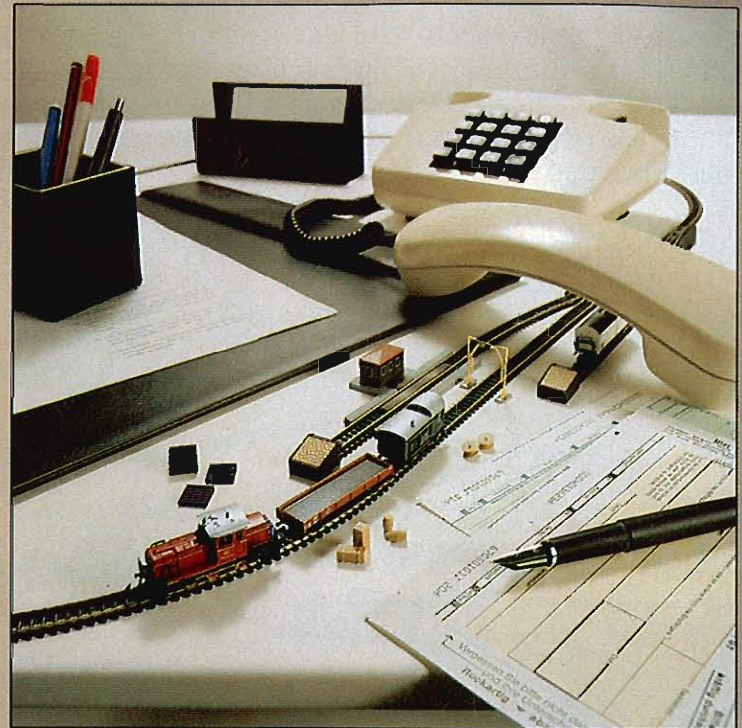
Märklin mini-club – the smallest electric railway in the world

Märklin mini-club is a model railroad designed especially for adults whose fascination lies in its refined technology and unbelievable smallness. mini-club is more than just the smallest railway in the world, even for someone with the most exacting demands. It is a symbol of stunning precision, uncompromisingly exact to the finest details. It's hard to believe how little space is actually needed. mini-club is available only from Märklin.

Model Size Z
Gauge 6.5 mm ($\frac{1}{4}$ ")
Scale 1:220

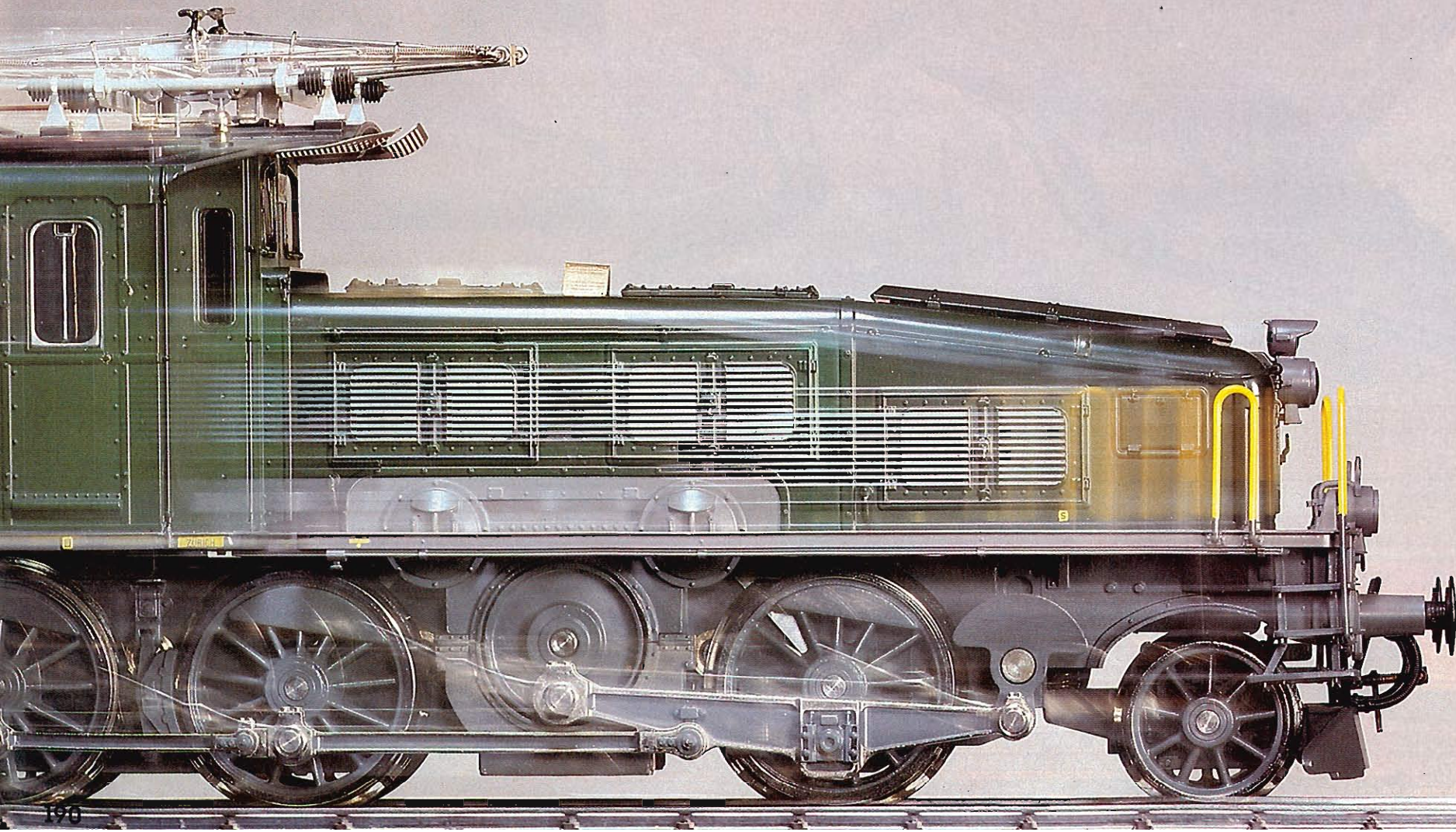


The new 84 page Märklin mini-club catalog is now available at your hobby shop. It lists all items in production and contains many unusual ideas on how to enjoy the smallest railway in the world – mini-club.



Märklin Gauge I – the Big One

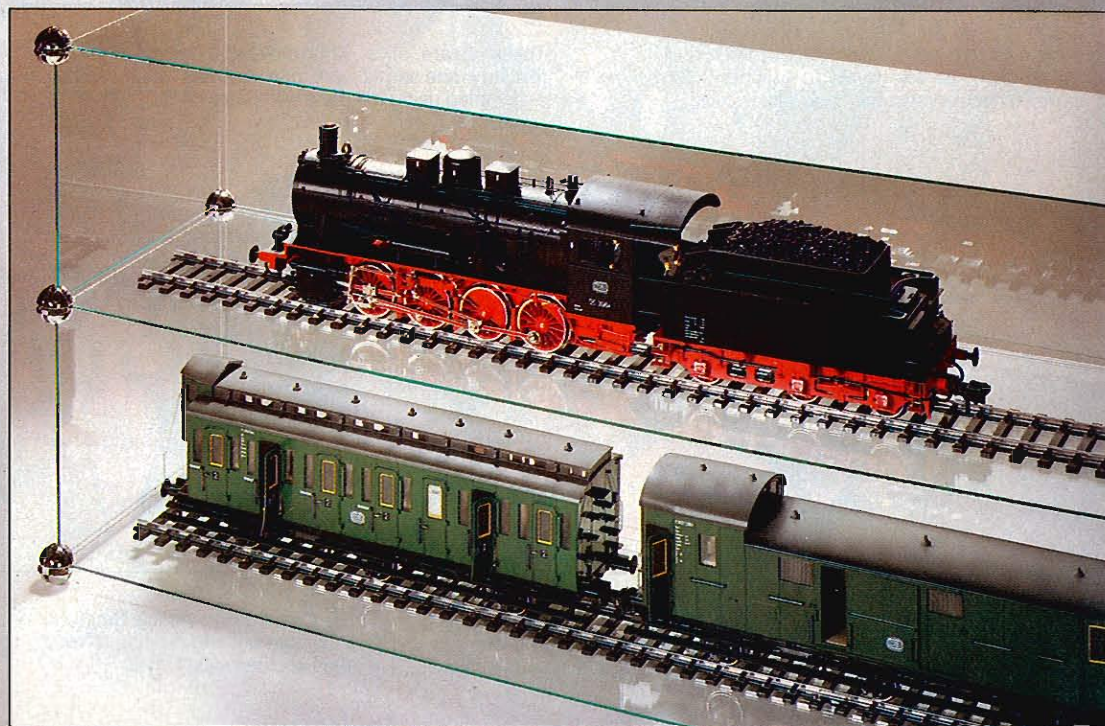
Märklin I scale trains look and feel like real trains. They excite all railroaders. It is a versatile system, easily put up and taken down, outside or inside. The Märklin I models are treasured by collectors and are a good investment. Whether kept in a glass case or placed as a centerpiece, these cars catch the eye of everyone. Märklin Gauge I offers a lot of fun for the whole family.





Model Size I
Gauge 45 mm (1-3/4")
Scale 1:32

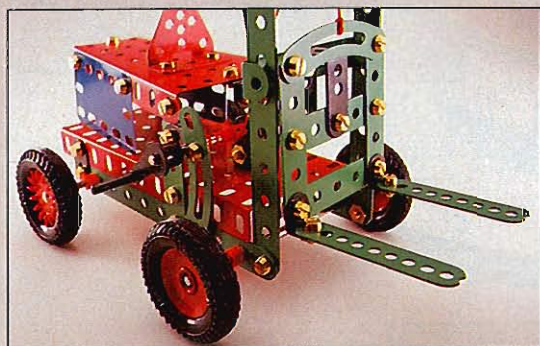
Experience the size of Märklin I models. See the new 44 page Märklin I gauge catalog now available at your hobby shop.



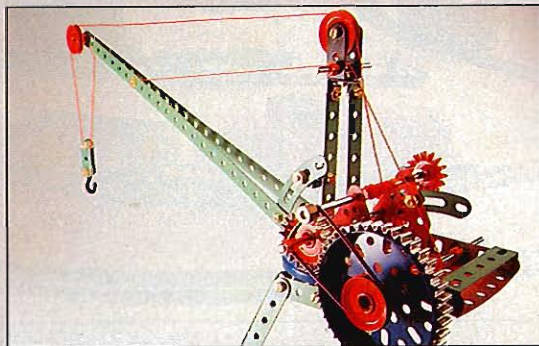
Märklin Erecting Kits – Fun with Technology

Märklin metall – an erecting system utilizing basic screw and nut technique, just like real life construction projects. Thus, these intriguing kits are a genuine learning experience, an exciting introduction into the world of engineering. Actual tools, scaled-down metal parts and realistic nut and bolt assembly make the technology of Märklin metall fun.

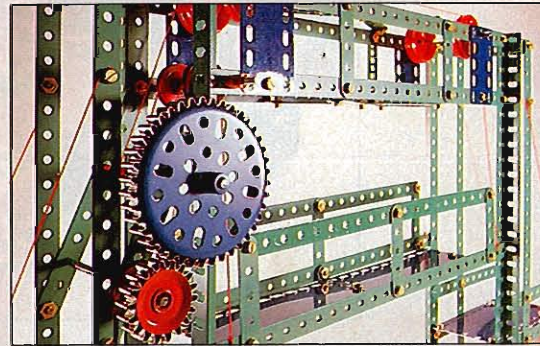
The Märklin R-Way Club Kits



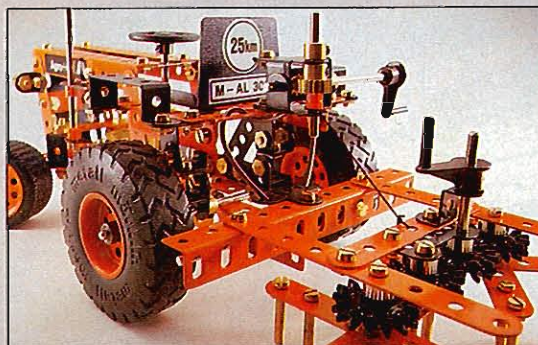
That these kits are fun is exemplified by the fork lift which can be made with the Basic Kit A (1051). 24 other machines can also be made with this kit.



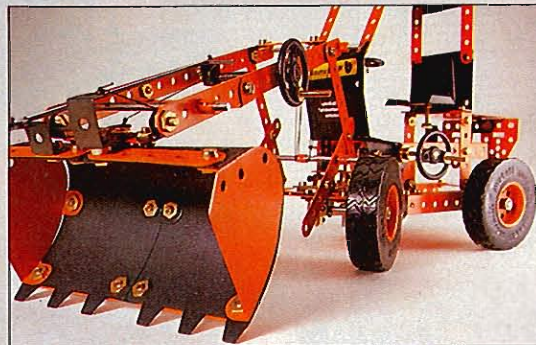
These kits are "alive". They move and change position like the crane shown here, one of 50 kits which can be assembled using the parts with Basic Kit B (1052).



More involved planning and construction, yet still using basic nut and bolt technology, are possible with the Basic Kit C (1053). The drawbridge shown here is one of 68 models which can be made using this kit.



Variety was a keynote in the development of these kits. The Farm Machinery Set (1054) is a theme set with which one can make all sorts of agricultural machines, tractors and implements.

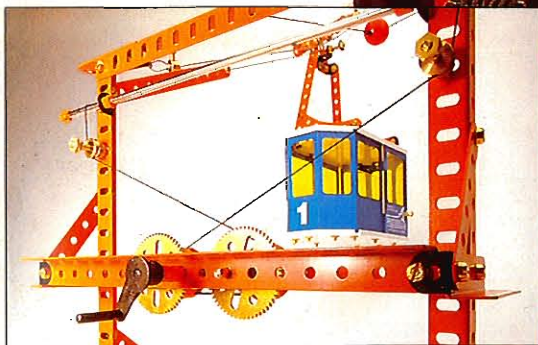


The Construction Vehicle Set (1055) enables one to assemble working models of heavy duty machines seen at construction sites.

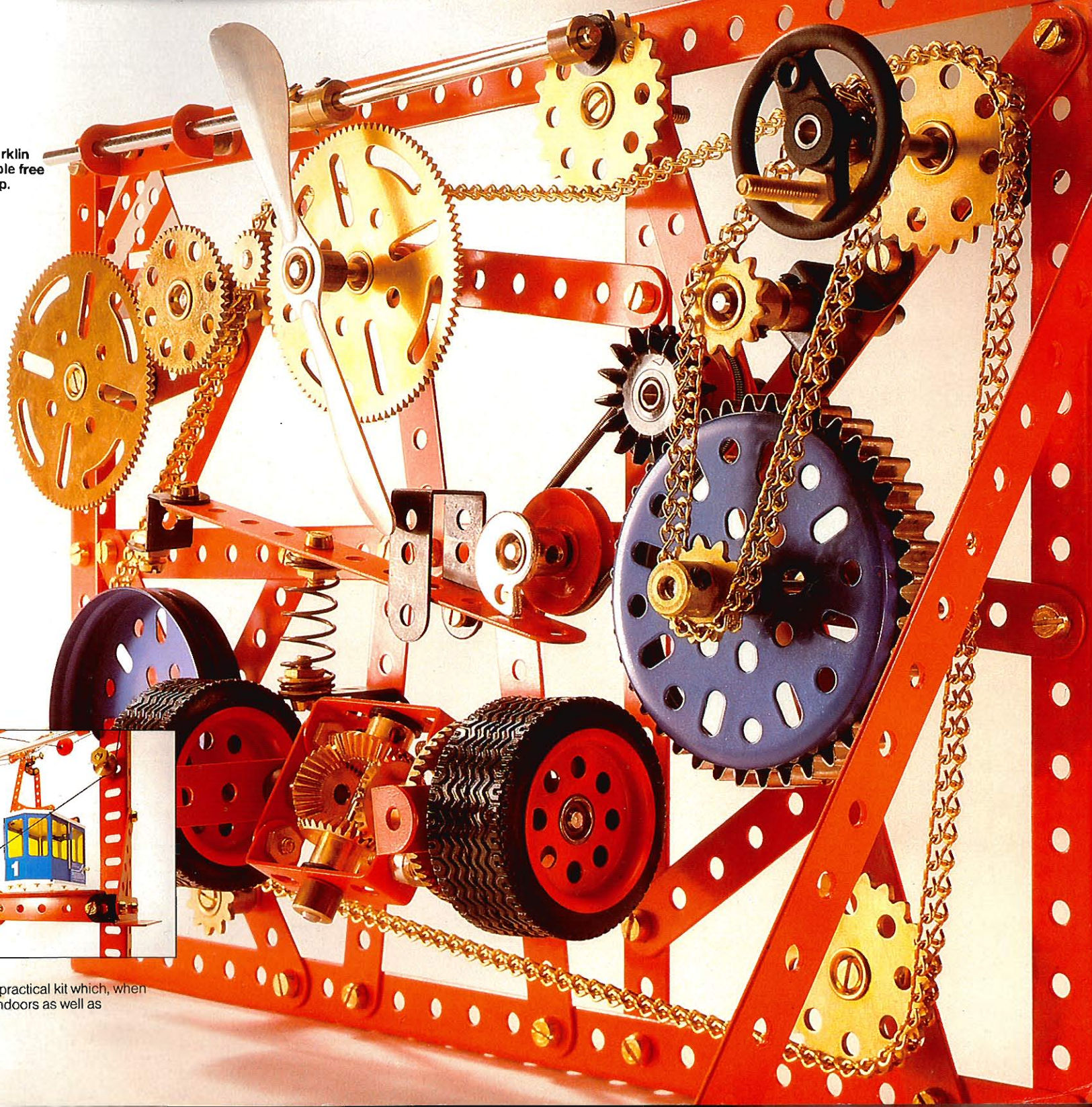


Truck models made with the Truck Set (1056) are strong, stable, and technically exact. Cab-overs, sprung axles, and winches are just some of the elements of truck technology which can be assembled with this kit.

A 16-page prospectus on Märklin Metall Erecting Kits is available free of charge at your hobby shop.



Cable Railways Kit (1057) is a practical kit which, when fully assembled, will operate indoors as well as outdoors.



märklin

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Federal Republic of Germany

