



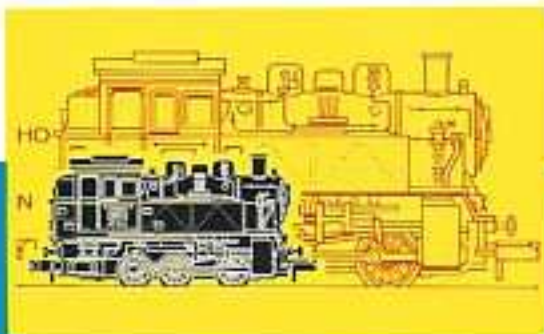
MODEL RAILROAD
CATALOG
1966/67

ARNOLD *rapido*

N GAUGE/SCALE 1:160

The small model railroad with big possibilities

ARNOLD *rapido*



In two trains having the same length, an Arnold rapido train will contain almost twice as many cars as an HO-gauge train.

This diagram shows the comparative size of the same locomotive in HO and N scales. Even though an Arnold rapido vehicle is only 1/60th of its prototype's size, it faithfully contains every fine detail found in the prototype.



An Arnold rapido layout built in „N“ gauge requires only about a quarter of the area of a corresponding „HO“ layout. The advantage is obvious.

Arnold rapido Freight trains, like their prototypes can safely contain over fifty cars. Such trains will be only ten feet long.

ARNOLD *rapido*

**WORLD'S SMALLEST
ELECTRIC TRAIN
FOR THE GREATEST
REALISM**





Electric model railway
„N“ gauge = 9 mm
True to prototype; scale 1:160
Two rail, 12 Volt D.C. operation

The cross cut of an Arnold rapida locomotive (0220) at the right shows all the electrical and mechanical elements in full actual size. You may demand long and strenuous service from Arnold rapida products, because they are manufactured according to the latest production techniques with many exacting inspections. These back up the fine workmanship of the production staff.



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12 Volt D.C. operation:

The permanent magnet motors in the locomotives enable realistic acceleration, good control over high and low speeds, and positive remote control over the direction from the power pack.

The Two Rail System:

Staggered track joiners with reliable electrical contact insure smooth operation of even the longest trains from track to track. The rails are realistic in appearance, and sturdy enough to carry the weight of an adult if stepped on.

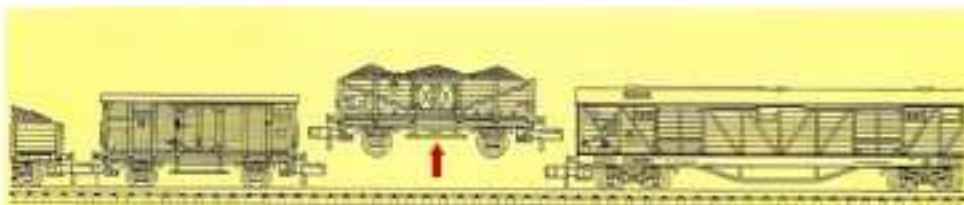
The shape of the track profile discourages the accumulation of dust and dirt and reduces the care and maintenance to a minimum. Furthermore, they guide the wheel flanges in a sure and quiet manner.



Automatic Couplers:

All locomotives and cars are equipped at both ends with automatic sprung couplers. (Rokal licen-

se). The soft buffer effect provides reliable coupling when two cars meet. The electric uncoupling track allows uncoupling by remote control.



Thanks to the clever construction of the couplers, any car may be lifted out of a complete train on the track without disturbing or de-railing the remaining cars.



Switching Couplers for Locomotives:

With these special switching couplers (patent pending) locomotives may uncouple their cars anywhere on the layout without special uncoupling

tracks. These couplers are available separately for optional installation on the locomotives marked accordingly.

This table shows the capabilities of the various locomotives for planning purposes. Columns 1-5 show some information concerning the prototypes while columns 6-11 concern the Arnold rapido model.

Symbols on the table

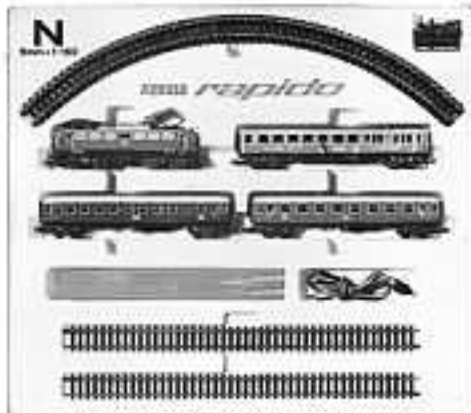
- 1) Railroad company which is principal user
- 2) Class Number
- 3) Wheel arrangement
- 4) Maximum speed (1 mile = 1,609 km)
- 5) Principal use
 - Q = Express Passenger Service
 - P = Local Passenger Service
 - G = Freight Service
 - R = Switching
- 6) Shadow diagram of loco
- 7) Arnold rapido catalog number
- 8) Weight of the model in ounces (1 oz = 28.35 g)
- 9) Number of cars which can be pulled on level ground
- 10) Can switching couplers be installed?
- 11) Electric headlight(s)?

This table shows the pulling power of the various locomotives on level ground. On grades, the number of cars should be reduced to the following:
 2% grade to about a half,
 3% grade to about a third,
 4% grade to about a quarter.

These figures are proof of the high quality and excellent design of Arnold rapido engines. Their motors are designed to withstand any overload to which they may temporarily be subjected.



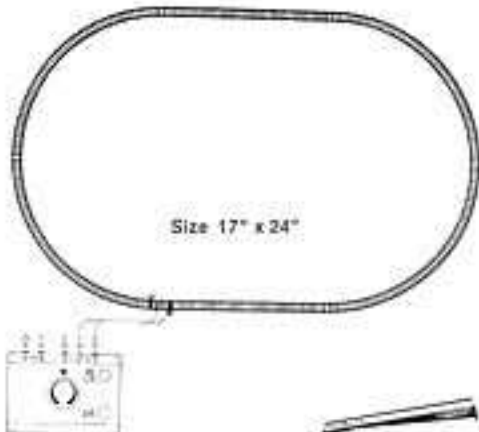
1	2	3	4 km/h (max)	5 D	6 P	7 G	8 R	9 Modell	10 Katalog Nr.	11 Gew. g	12 0	13 5	14 10	15 15	16 20	17 25	18 30	19 35	20 40	21 45	22 50	23 0/30	24 10	25 11	
	V 200'	B/B'	140						G202	158															
Privat	Industrie Diesel	B	50						G203	35															
Privat	Baldwin Industrie Diesel	B/B'	50						G204	119															
	BR 58	1'C1'	100						G229	155															
	BR 37 (T.5)	C	40						G211	55															
	BR 25	1'C1'	110						G221	130															
	BR 80	C	45						G222	60															
	Ba 44	Ba/Ba'	125						G228	150															
	E 10'	Ba/Ba'	150						G227	120															
	E 12'	Ba/Ba'	160						G223	120															
	E 40	Ba/Ba'	100						G224	120															
	E 10'	Ba/Ba'	160						G226	120															
	E 69	Ba	50						G242	50															
	BB 5200	Ba/Ba'	150						G247	98															
USA	General Motors GM F9	Ba/Ba'	170						G264 G265	140															
USA	General Motors 2x GM F9	2 x Ba/Ba'	170						2 x G264 2 x G265	280															



A train set forms the corner stone of an Arnold rapido layout. It contains everything necessary to begin operations. Only the power pack of your choice must be added.

Every train set contains the locomotives and cars shown here plus two straight and four curved track sections, a connecting cable with track clips and a re-railer.

The layout shown at the left can be assembled from the track which comes with all Arnold rapido train sets. The back of the train set box shows some expanded layouts and the additional track sections which must be purchased to build them.



043 Industrial Diesel Freight
Length 9".

\$ 14.95

- 1 industrial diesel locomotive.
- 1 gondola with wood.
- 1 calcium car.
- 1 box car, of the junior series.

Track, cables and re-railer in gift box.



044 Branch Line Passenger Set
Length 7"

\$ 19.98

1 tank loco 0225
3 coaches 0308

Track, cables and re-railer in gift box.



045 Old Time Branch Line Passenger Train \$ 24.98
Length 10 1/4"

1 tank locomotive T 3,
1 third class coach,
1 second and third class coach,
1 baggage car.

Track, cables and re-railer in gift box.



047 Modern Electric Express Train
Length 18"

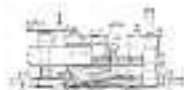
\$ 34.98

1 electric locomotive E 10,
1 second class coach,
1 dining car,
1 first class coach.

Track, cables and re-railer in gift box.



Length 4" - Weight 5 oz.



Length 2 1/4" - Weight 2 oz.



0220 Tank Locomotive

§ 24.98

Model of the tank locomotive 69 of the German Federal Railway.

Six axles, wheel arrangement 2-6-4-T. Six wheels are powered. Power pick-up through six wheels. Body and chassis die cast of metal and finely detailed. Painted and lettered as per the prototype. Fully automatic sprung couplers, front and rear. Three electric headlights at the front. Drive rods trimmed in red.

The series 66 is the last steam locomotive developed for the German Federal Railroad. It was placed in service in 1955 and used for local freight and passenger trains as well as for push-pull suburban service. It is capable of speed of 60 miles per hour in either direction.



0222 Old Time Tank Locomotive

§ 17.98

Model of the tank locomotive T 3 of the former Prussian State railways, Germany Federal Railroad series 89.

Six wheels, wheel arrangement 0-6-0-T. Four wheels are powered and pickup current. Body and chassis made of highly detailed metal, brass bell. Fully automatic sprung couplers at both ends, drive rods trimmed in red.

The tank locomotive T 3 was first built in 1878 and is therefore the oldest locomotive which is still found in active service today. It is used in branch line passenger service, for switching and for plant and industrial use.



Length 5 1/4" - Weight 5 oz.



Length 2 1/4" - Weight 2 oz.



0223 Prairie Locomotive with Tender \$ 27.98

Model of the steam locomotive series 23. Wheel arrangement 2-6-2, all six drivers pick up electricity and are powered. Body and chassis highly detailed die cast metal. Eight wheel tender. Painted and lettered in prototype colors. Sprung couplers at both ends. Three electric headlights. Drive rods trimmed in red.

The steam locomotive of the series 23 was first built during 1950. It is used for light express trains, both freight and passenger, as well as heavy local service.



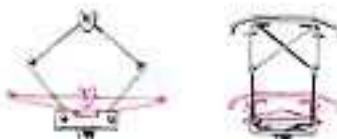
0225 Tank Locomotive \$ 14.98

Model of series 80. Wheel arrangement 0-6-0-T. Power pickup on four wheels; powered in four wheels. Chassis of metal, body of super detailed unbreakable plastics. Automatic sprung couplers at both ends. If desired, switching couplers can be installed. Drive rods trimmed in red.

The tank locomotive of series 80 was first built in 1927 and is used for switching and light service.



The Pantographs on these locos are constructed so as to operate when catenary becomes available.



Length 4" - Weight 4 oz.



0232 Electric Express Locomotive \$ 19.93

Model of series E 10¹ of the German Federal Railroads. 0-4-4-0 powered in all wheels; all wheels pick up electricity. Body made of metal and highly detailed. Finished in blue lacquer. Glass windows in the cabs. Three electric headlights at both ends which change automatically in accordance with the direction of travel.

Series E 10¹ was produced for the German Federal Railroad in great quantities. It is used for main line express passenger service and has a top speed of 90 miles per hour.



0233 Electric Long Distance Locomotive \$ 21.99

Model of the series E 10¹ of the German Federal Railroad. Technical details identical with locomotive 0232, but finished in blue and ivory.

When used with our express coaches 0344, extremely elegant express trains can be made up. Locomotives of series E 10¹ have been used since 1963 to pull the famous Itheingold and Rheinpfal express trains. Occasionally they are also found in front of other passenger trains over its electrified lines. Its maximum speed is 100 miles per hour.



0234 Electric Multi-purpose Locomotive \$ 19.93

Model of Series E 40 of the German Federal Railroad. Technical details similar to 0232, but finished in green.

The German Federal Railroad uses this locomotive to haul medium weight freight and passenger trains over its electrified lines. Its maximum speed is 60 miles per hour.

The heavy construction of these locomotives produces not only excellent running and pulling characteristics, but also smooth and silent operation.



0240 Electric Multi-purpose Locomotive \$ 10.98

Four wheels, all powered and picking up electricity. Body and chassis made of highly detailed unbreakable plastics. Finished in green and grey. Fully automatic couplers at both ends. Pantograph without electrical function.

Locomotive of this type were among the first electric locomotives to be constructed and many are still in service throughout the world. They are used for switching, by street and local railroads, and in industry.



Length 2" - Weight 1 1/4 oz.

A layout on which electric type locomotives operate can be decorated with dummy catenary. On pages 44-45 of this catalog, items 0550 through 0554 are illustrated; they make this possible.





Length 3 1/2" - Weight 4 1/2 oz.



SBB

CFF

FFS

0230 Electric Locomotive

\$ 14.95

Model of a series Re 4/4 of the Swiss Federal Railroad, Eight wheels 0-4-4-0 all of which pick up electricity; inner four wheels are powered. Die cast metal body, painted and lettered as per prototype. Cab windows of glass, pantograph without electrical function. Fully automatic sprung couplers at both ends.

The electric locomotive Re 4/4 is used in all parts of Switzerland for express train service.



Length 4" - Weight 3 1/2 oz.



0249 Electric Multi-Purpose Locomotive

\$ 21.98

Model of Series BB 9200 of the French State Railroads.

Powered in all eight wheels; 2 electric headlights at each end which burn automatically only in the direction of travel. "Frog-Leg" type pantographs without electrical function.

This modern multi-purpose loco with its wrap around windows, was the forerunner of many similar types in various countries. It is used to haul the fastest and most luxurious trains between Paris and the Riviera at speeds in excess of 100 mph.





Length 4 1/2" - Weight 5 oz.



Length 2" - Weight 1 1/4 oz.



Length 4" - Weight 4 oz.



0202 Multipurpose Diesel Locomotive \$ 19.98

Model of class V 200¹ of the German Federal Railroad. 8 wheels, all of which are powered and pick up electricity. Excellent running characteristics. Die-cast metal body, finely hand painted. Glass enclosed cabs. 3 electric headlights at each end, which burn automatically only in the direction of travel. Fully automatic couplers, special switching couplers may be installed.

Locomotives of the V 200 class are among the most powerful eight wheel diesel locos in the world. This is true despite their comparatively light weight. They are powered by a diesel-hydraulic drive and pull all types of traffic from crack passenger trains to local freights.

0203 Diesel Industrial Loco \$ 9.98

4 wheels, all of which are powered and pick up electricity. Unbreakable plastic body. Gear drive. Automatic couplers at both end. Special switching couplers may be substituted.

Small diesel locomotives are used for switching by railroad companies and large industrial plants. They are also found in mines, lumber yards, and military establishments.

0201 Baldwin Diesel Locomotive, New Haven \$ 13.98

0202 Baldwin Diesel Locomotive, Union Pacific \$ 13.98

Model of the Baldwin 1000 hp. road switcher, 8 wheels, four center ones are powered. Gear drive. Power Pick-up from all eight wheels. Metal chassis, unbreakable plastic body. Super detailed, multi-colored. Automatic couplers at both ends. Baldwin diesel locomotives are used by several railroad companies in the United States for switching as well as light passenger and freight service.



0266/0267



Model of the F-9 diesel locomotive produced by General Motors for famous American railroad companies. Eight wheels, all of which pick up power, inner four wheels are powered. Body and chassis of die cast metal, finished and lettered in prototype colors. Automatic sprung couplers mounted on both trucks.

0266 Diesel Locomotive of the Baltimore & Ohio Railroad \$ 16.98
 0267 Diesel Locomotive of the Baltimore & Ohio Railroad without motor \$ 17.98



0264/0265



0264 Diesel Locomotive of the Santa Fe Railroad \$ 16.98
 0265 Diesel Locomotive of the Santa Fe Railroad without motor \$ 7.98

Some American train sets with track oval in gift Box.

054 The Transcontinental (Santa Fe) \$ 29.98
 055 The Transcontinental (B&O) \$ 29.98

Consists of twin diesel, gondola, tank car, and caboose. Length of Train 18 1/2".



057 The Royal Blue \$ 34.98
 Twin Diesel, coach, dome car, observation car.
 Length of Train 21"

056 The Super Chief \$ 34.98
 Same train in Santa Fe colors.





0420 Gondola € 1.50
Model of Gm 31 of the German Federal Railroad. Length 2".



0421 Calcium Car € 1.50
Model of the hinged covered car K of the German Federal Railroad, bulk loads requiring protection from the weather. Length 2".



0422 Closed Goods Wagon € 1.90
Model of Gms 54 of the German Federal Railroad with four ventilators. Length 2".



0308 Local Coach € 1.90
Used for Branch Line traffic. Length 2 1/2".

Cars of the junior series have a somewhat simplified construction. They are made of highly detailed plastics, but have no lettering. The cars have fully automatic couplers. The needle point bearings, axles and wheels are made of nylon.

Four wheel passenger cars



All Arnold rapido model cars have excellent characteristics, thanks to their low center of gravity and their steel axles with needle point bearings. Even

the longest trains will glide easily through the sharpest curves and complicated switches without danger of derailment. The spring buffer which is

built into the couplers, cushions the shock of sudden stops and prevents derailment of cars.



0303 Branch Line Coach Third Class \$ 3.25
Model of GiPr 86; Celestery roof, glass windows with imitation window frames. Length 2".



0304 Branch Line Passenger Car, Second & Third Class \$ 3.50
Model of BCiPr 98a; Glass windows with imitation window frames. Length 2-3/4".



0305 Branch Line Baggage Car \$ 2.90
Model of PWiPr 90 with conductors compartment. Length 2 1/2".

These old timer cars are models of vehicles used by the former Prussian railroad around the turn of the century. Their plastic bodies have celestery roofs and highly detailed lettering in three colors. The ladders are made of metal. The floors contain gas tanks for the coach lighting.

The four wheel passenger cars below are models of the former Bavarian state railway series Ci Bay 30, with an open platform. The windows are partially opened and framed in imitation wood.



0301 Local Coach \$ 3.50
For branch line service. Length 2 1/2".



0302 Local Coach \$ 3.50
For suburban service. Length 2 1/2".



0306 Baggage Car \$ 2.98
For suburban service. Length 2 1/2".



Types of Truck

- 1) German Passenger
- 2) American Passenger
- 3) Swiss Passenger
- 4) American Freight (Bettendorf)

All Arnold rapido eight wheel cars have the appropriate trucks with needle point bearing axles. This insures smooth running and minimum resistance, so

that long trains can be pulled. The couplers are mounted on the trucks. Hobbyists may purchase any of these trucks for \$ 1.50 a pair.



0314 Intercity Coach, Second Class \$ 3.98

Model of B-4 type of the German Federal Railroad for suburban traffic.

This model is modernized with recessed end and center doors. Large imitation tail lights finished in three colors. Length 4 1/2".



0330 Baggage and Mail Car \$ 3.98

Model of Pw Post 4 u 28 of the German Federal Railroad.

Over the baggage compartment there is a coupler for the conductor and over the mail compartment there is a sky light as well as barred window. Length 4".



0318 Local Stainless Steel Coach \$ 4.50

Model of series AB 4 nb - 59 of the German Federal Railroads, 1st and 2nd Class.

To insure fast entry and exit at suburban stops, car has two large doors near the center. Car is finished in stainless steel with pattern. Length 5".



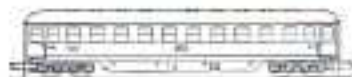
0341 Express Train Coach, Second Class \$ 3.25

Model of B 4 um of the German Federal Railroad. Length 5".



0342 Express Train, Coach First Class \$ 3.25

Model of A 4 um of the German Federal Railroad. Length 5".

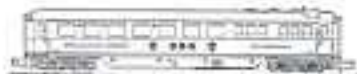


The models of the eight wheel express cars have a great deal of under body detail, such as batteries, air compressors, etc. The body is made of unbreakable plastic with inset windows and printed letters. Even the roof detail has been faithfully followed. At the ends of cars, there are imitation corridor connections. The trucks contain steel axles with needle point bearings and automatic couplers.

0343 Touropa Sleeper § 3.25
Model of Bc 4 um of the German Federal Railroad for charter vacation travel. Length 5".

0344 Long Distance Express Coach § 3.25
Finished in blue/beige Rheingold colors suitable for use with locomotive 0233. Length 5".

0347 Wagon Lits Sleeper § 3.98
Model of the international sleeping and dining car sleeper. Lettered on the aisle side in German and French, and on the compartment side in English and Italian. Prototype trucks. This car was first placed in international express service in 1904. Length 5".



0349 Dining Car

\$ 3.25

Model of WR 4 age of the German Sleeping & Dining Car Company.

This car has frosted windows in the kitchen and aisle, and picture windows in the dining car compartment. Chimney over the kitchen. Finished in three colors. Length 5".



0360 Trans Europ Express Coach

\$ 4.98

Model of Class A 8 myll of the French State Railways, 1st Class.

These cars make up the famous „Mistral“ trains between Paris and Nice. It is made under license from Budd, and therefore resembles American streamlined cars. Lettered „Trans Europ Express“ on red background. Length 5".



0372 Standard Long Passenger Car

\$ 4.98

Model of Series B40 of the Swiss Federal Railways, 2nd Class.

Model finished in many colors with many added details. Prototype exists in large number and is used primarily for inter-city traffic in Switzerland. Length 5 1/2".





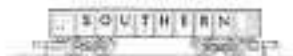
The eight wheel express cars of American prototype are lettered for various American railroad companies.

The bodies are made of super detailed plastic with inserted windows. The trucks have steel axles with needle point bearings and automatic sprung couplers.

- 0351 Santa Fe Streamline Coach \$ 4.98
Length 4-3/4".
0352 Baltimore & Ohio Streamline Coach \$ 4.98
Length 4-3/4".

- 0353 Santa Fe Dome Car \$ 4.98
Length 4-3/4".
0354 Baltimore & Ohio Dome Car \$ 4.98
Length 4-3/4".

- 0355 Santa Fe Observation Car \$ 4.98
Length 4-3/4".
0356 Baltimore & Ohio Observation Car \$ 4.98
Length 4-3/4".



The eight wheel American freight cars are painted and lettered in the colors of various American companies.

Bodies and chassis are made of super detailed plastic with added metal weight. The Bettendorf trucks have axles with needle point bearings and automatic sprung couplers.

0416 Gondola, Southern Railroad \$ 2.49
without load. Length 3 1/4".



0417 Gondola, Pennsylvania Railroad \$ 2.79
with coal. Length 3 1/4".



0419 Caboose \$ 2.90
Length 2-3/4".



0412



0413



0414



0415

There are several hundred thousand box cars in use in the United States; they carry the bulk of freight in North America. Arnold rapido makes four completely painted and lettered models, and a fifth car in box-car red without lettering, but with decals, so that it can be finished in a variety of road names.

0411 Box Car, \$ 2.98
Box Car Red with decals in various road names.

0412 Box Car, \$ 2.98
New York Central markings.

0413 Box Car, \$ 2.98
Boston and Maine markings.

0414 Box Car, \$ 2.98
Santa Fe markings.

0415 Box Car, \$ 2.98
EJ & E markings.
All box cars are 40 scale feet long, or 3 1/4" in actual length.



0405



0406



0436

0438



0437

0439



A large number of tank cars are found on the railroads of all countries. They are particularly popular on model railroads, because they are painted in bright colors.

The eight wheel tank cars are American models. Their super structures are made of plastic and their chassis have a black steel frame. The super detailed trucks have steel axles with needle point bearings and automatic couplers.

0405 Tank Car, Esso \$ 3.98

Length 4"

0406 Tank Car, Shell \$ 3.98

Length 4"

These tank cars are models of privately owned cars belonging to various oil companies.

The model of four wheel tank cars have plastic super structures and burnished metal chassis. There are sprung automatic couplers at both ends. The needle point steel axles run in journal boxes with imitation steel springs.

0436 Tank Car Aral \$ 2.98

0437 Tank Car BP \$ 2.98

0438 Tank Car Gasolin \$ 2.98

0439 Tank Car Shell \$ 2.98



0441 Box Car \$ 2.90
Model of Gmbs 39 of the German Federal Railroad with round roof. Length 2".



0455 Low Sided Gondola \$ 2.50
Model X of the German Federal Railroad. Length 2".



0447 Gondola \$ 2.98
Car 0445 with removable load of logs.



0446 Gondola \$ 2.00
Car 0445 with removable load of coal.



0463 Bot Car Europ \$ 2.50
Flat roofed box cars of this type are frequently seen in all European countries. Length 2".



0449 Cabin Car \$ 2.93
Model Pwg of the German Federal Railroad. Length 2". - This is a European caboose.



0442 Banana Car
Length 2".

\$ 2.98



0451 Chemical Car Bayer
Privately owned chemical car. Length 2".

\$ 2.98



0462 Box Car
Model of the famous 40 & 8 of European railroads.
Length 2".

\$ 2.50

The two axle freight cars consists of a finely detailed plastic body over a black metal chassis. At both ends there are fully automatic sprung couplers. The needle point bearing steel axles are mounted imitation steel springs.

All model freight cars are noted for their low center of gravity and excellent running characteristics. This makes it possible to assemble trains containing fifty or more cars. Such a train would be approximately ten feet long.



0452 Flat Car with Truck Kit
Model X of the German Federal Railroad.
Length 2".

\$ 2.50



0445 Gondola
Model of Om of the German Federal Railroad.
Length 2".

\$ 2.50



0456 Container Car
Model of BTs 60 of the German Federal Railroad.
Length 2". This car is used for the house to house service and carries three removable open containers. These are normally loaded with bulk goods. The containers are made of plastic and painted in silver. The platform railing is steel with a brakemen cabin.

\$ 3.98



0457 Container Car Kit
Model of BTs 50 of the German Federal Railroad.
Length 2". This model contains three closed containers which are used for valuable loads such as grain or cement.

\$ 3.50

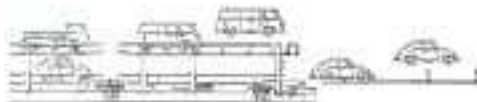
The many different models which are available make such a train most interesting. If some of the cars are loaded with flat car loads 0649 (see page 55), even more versatility is achieved.

0498 Open Double Deck Auto Transporter \$ 4.98
Model of Series Off the 65 of the German Federal Railroad.

This six wheel articulated car has an axle at each end, and a movable, self-aligning axle at the center. Length 6".

0499 Open Double Deck Auto Transporter \$ 6.98
Same as car 0498, but loaded with 8 Volkswagen vehicles.

Eight cars from our series 0659, 0660, or 0662 can be loaded into these cars in two levels. To accomplish this, the lower floor can be pulled out to facilitate loading.



0498



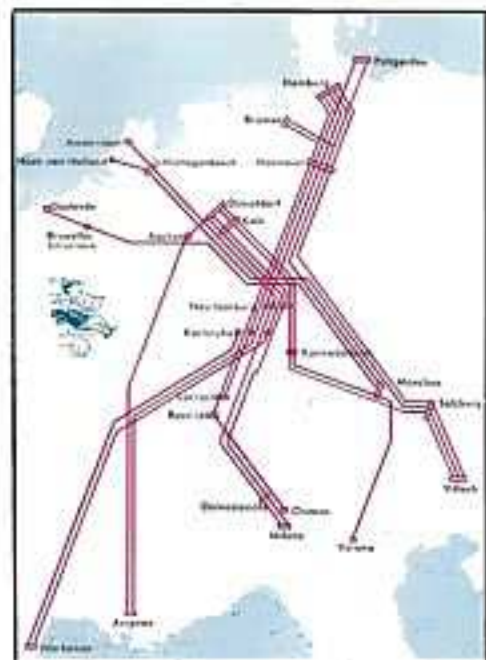
0499



Prototypes of these cars are used to transport new autos to dealers. One often sees solid trains of these cars.

Lately, however, the railroads have also begun to transport cars belonging to passengers in the same trains as their owners. They are thus seen at the rear of passenger trains. In such cases, many makes of autos are seen on the same car.

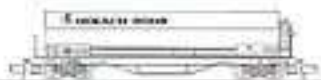
Below is a diagram showing the lines in Europe in which this new service is available. It is also available in the United States and Canada.





These are eight wheel cars, prototypes of which were built in the United States, but presently running in Germany. They have plastic superstructures and stamped metal chassis. Their finely detailed Bettendorf trucks have steel axles with needle point bearings and fully automatic couplers.

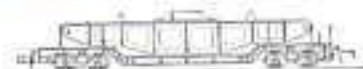
0407 Low Side Gondola with Coal \$ 3.98
Length 4 1/4".



0408 Pipeline Transporter \$ 4.50
With brakeman's cabin and three large pipes. Length 4 1/4".



0409 Horse Car \$ 3.88
With doors at the sides and end, ventilators on the roof. Length 4 1/4".



0492 Depressed Center Flat Car with Load \$ 3.50
Cars of this type are used to carry heavy or bulky loads. This particular load is a swing bridge part, which can be removed. Stakes at the ends of the car. Length 4 1/4".



0453 Low Sided Gondola \$ 2.50
Maintenance car of the German Federal Railroad.
Length 2".



0455 Maintenance Car with Crane \$ 2.98
Length 2".

Maintenance of Way cars are indispensable on all railroads. They are used to clear the tracks after accidents, and also to prevent accidents through maintenance.

The cars are used as work cars, or to transport the railroads own freight such as gravel ballast, culverts, ashes, ties, etc. The work cars provide accommodations for laborers engaged in building or maintaining tunnels, bridges, catenary, etc.

On a model railway, these cars provide life and variety. Even a whole M. of W. train can be assembled.



0454 Gravel Car \$ 2.78
Maintenance car of the German Federal Railroad.
Length 2".



0468 Track Ballasting Car \$ 3.98
Type Dtm (Tilbat design) of the German Federal Railways, with ballast insert. Length 2-1/4".



0464 Work Car Kit \$ 2.50
This model is used for storage and living quarters for maintenance workers. It is normally used together with cars 0453 and 0454. Length 2".



Engine sheds are an important part of every major station. They make the operation more interesting and should hence also be a part of every model railroad.

Besides providing shelter for the locomotive, the service facilities include a whole series of other helps for maintaining, supplying, and washing the engines.

The photo at the left shows a layout with separate servicing facilities for steam and diesel engines. All its buildings have been chosen from the varied Arnold rapido kit assortment. Even the decrepid old work cars are found here.

Track plans, with lists of required components, can be found in the track manual No. 0020.

The track layouts manual, a complete guide to the Arnold rapido system with its many possibilities.

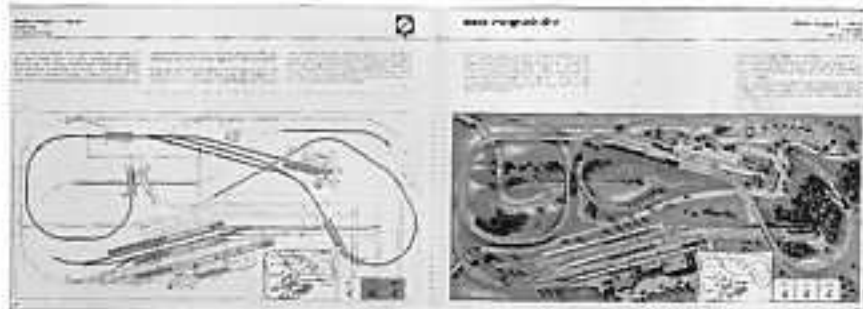
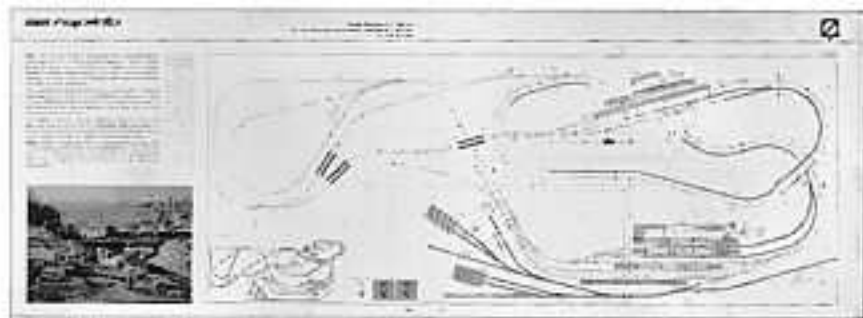
0020 Track Layouts Manual, \$ 3.98
112 pages, 8" x 12" with track plan stencil.

All pages shown in full color and illustrate many suggested layouts and parts thereof. All wiring is indicated. The manual contains a wealth of material for the beginner as well as for the advanced model railroader.

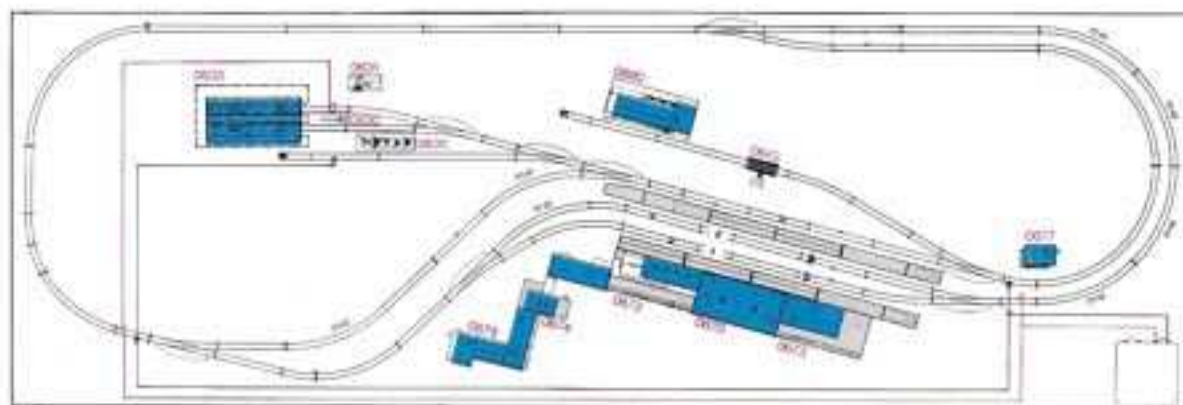
It begins with small train layouts and progresses to involved systems for multi-train operation. The exact number of track sections needed is indicated for each layout. Includes complete English translation. A MUST for all "N" gauge fans



Each book also includes this track stencil, with it one can vary the plans in the book or design new layouts to scale.



Suggested layouts



6 1/2 x 2 feet

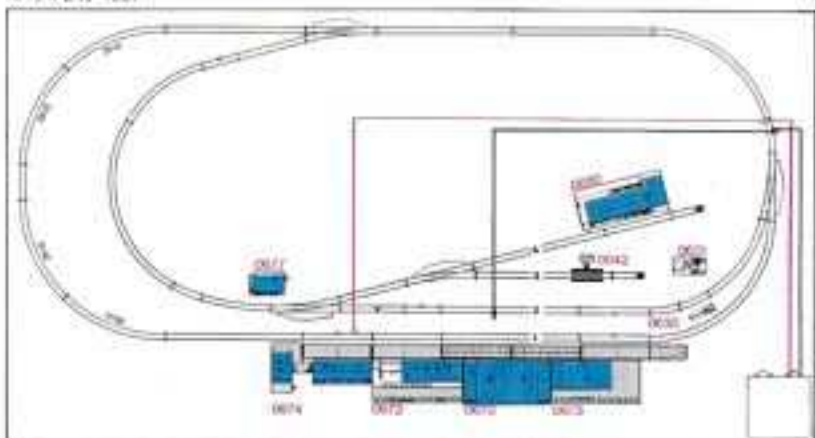
	1	2
0101	10	6
0102	14	4
0105	8	1
0112	5	1
0122	7	5
0125	—	2
0131	5	5
0132	5	2
0134	4	3
0142	7	4
0144	1	—
0151L	4	2
0155R	4	2
0164	4	1
0181	2	2
0109	1	1
0111	6	4
0112	1	1

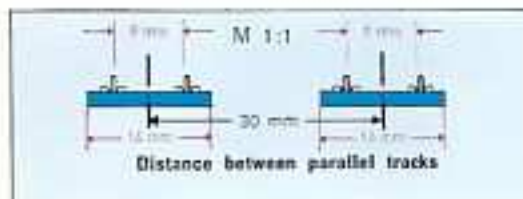
In creating the Arnold rapido system, our main aim has been to create a model railroad which not only operates well, and which provides the highest standards of quality in workmanship and materials, but also to enable beginners as well as advanced model railroaders an opportunity to pursue their hobby even if they have only a limited amount of space. The 2 layouts shown on this page have been designed for interesting operations in which 2 to 3 locos are used alternately.

To construct these layouts, you will need the track components shown in columns 1 and 2 respectively. The buildings and decorations which have been recommended are indicated with their catalog numbers in red.

Both of these layouts can be expanded later on. For details, see track manual 0020.

4 1/2 x 2 1/2 feet





- Realistic
- Indestructible
- Inexpensive

The Arnold rapido model track system is economical and simple to use.

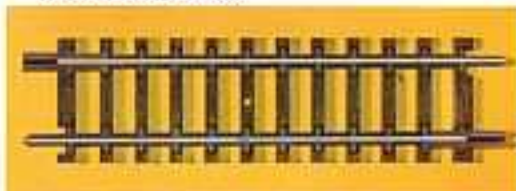
The realistic looking tracks consist of two metal profile metal tracks solidly mounted on a plastic tie-strip which isolates them from each other electrically. Their solid construction makes Arnold rapido tracks step proof.






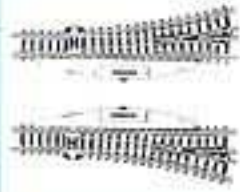
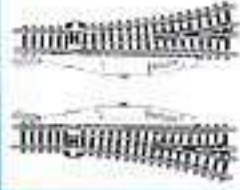
The Arnold rapido model tracks insure not only quiet operation, but also sure electric conductivity. The shape of the rails discourages the accumulation of dust and dirt, so that they are ready for use even after long periods of inactivity.

The fish plates are staggered in order to provide smooth passage from track to track and good electrical conductivity.

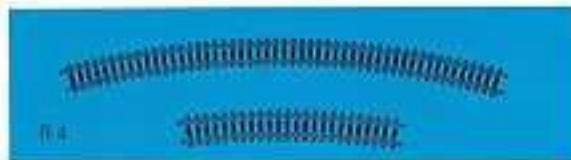
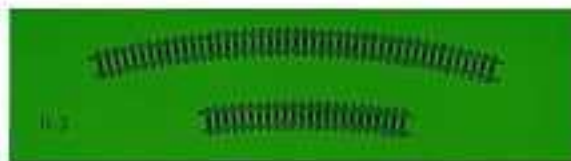
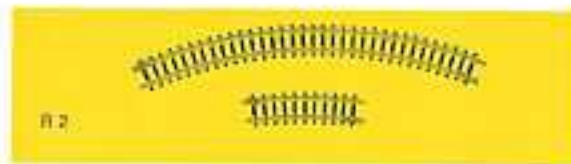
The model switches are constructed in such a manner that two switches can always be joined without additional intermediate tracks. This allows complicated yards in even the smallest space.

Track 0103 Actual Size



	No.	Length	Price
	0101	9"	\$.40
	0102	4 1/2"	\$.30
	0103	2 1/2"	\$.30
	0581	2 1/2"	\$.75
	0172	4 1/2"	\$ 2.50
	0151	4 1/2"	\$ 5.58 per pair
	0152	4 1/2"	\$ 9.98 per pair

The model track system

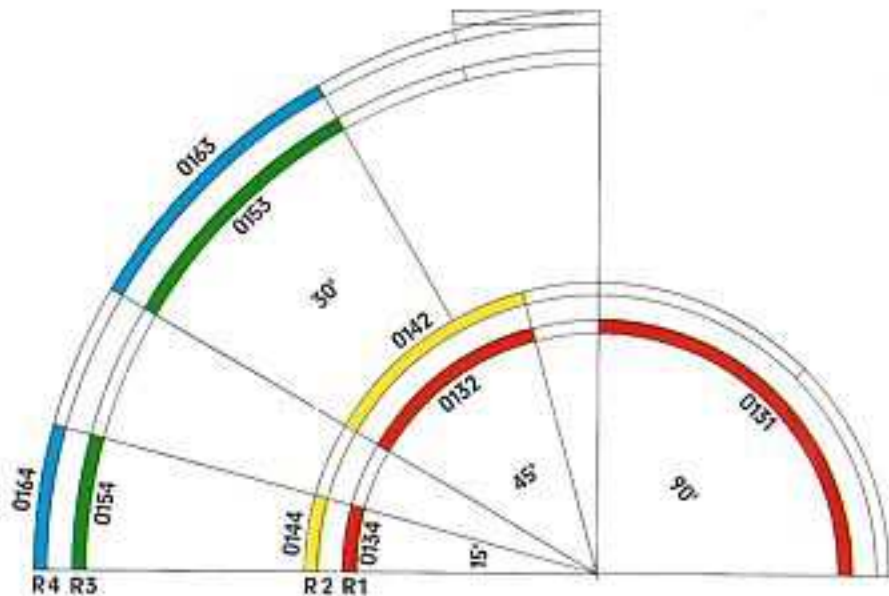


Until N gauge came along, it was impossible to build realistic layouts in a limited space.

The Arnold rapido program offers four different track radii which can be used alone or in combination. The 2 sharper track radii R1 and R2 of course save far more space. Only four sections of track No. 0131 are needed to make a circle of 10" diameter.

The radii R3 and R4 are designed to allow parallel lines of sharp curves to save a maximum of space, or gentle curves for utmost realism.

R - mm	Artikel Nr.	∠	⊙	L/mm	Price
R 1 - 699	0131	90°	1/2	500	\$ -.60
	0132	45°	1/4	150	\$ -.40
	0134	15°	1/24	50	\$ -.40
R 2 - 222	0142	45°	1/4	174	\$ -.45
	0144	15°	1/24	58	\$ -.35
R 3 - 400	0153	30°	1/12	210	\$ -.45
	0154	15°	1/24	105	\$ -.40
R 4 - 450	0163	30°	1/12	224	\$ -.45
	0164	15°	1/24	112	\$ -.40





0120 Circuit Breaker Track - 4 1/2" \$.50

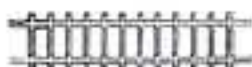


0121 Circuit Breaker Track - 2 1/4" \$.50

Circuit breaker tracks interrupt the electricity in both rails and are necessary for setting up electrically separated segments of layouts for multi-train operation. They can also be used in place of two gap sections in sidings between the switches.



0122 Gap Section - 4 1/2" \$.45



0123 Gap Section - 2 1/4" \$.45

Gap sections interrupt the power in one rail and are used before switches to deaden the parking track. They also find use in automatic block signalling, reverse loops, station delay devices, etc.



0112 Telescoping Track Sections \$ 1.20

for adjustments of + & - 1/4". The median length of this track is 4 1/2" and therefore it corresponds to a section 0102. By pulling it apart or pushing it together, it can be used to fit any space where no regular sections are available.

0125 Electric Uncoupling Track \$ 3.95

with Uncoupling Signal and Momentary Contact. This uncoupling track having a length of 4 1/2" is used for remote control uncoupling. It is activated by solenoids and operated by 16-V A.C.



The momentary contact switch is easily fitted into the control panel and is included. It and the uncoupling track are fitted with a 12" cable. The uncoupling signal has no electrical function, it indicates the location of the uncoupling ramp so that the operator can spot cars in the correct location.

If a switcher loco is equipped with the special switching couplers (see pages 2 and 40) it can pick up cars which have been uncoupled from another train and spot them anywhere on the layout without further uncoupling tracks.



Example of an installation of an uncoupling track.

Power Supplies - Power Packs



All power packs should be plugged only into 110-115 Volts AC house current. If you should happen to live in an area having a different electric supply, consult your dealer for the appropriate instrument.



size 6" x 3"

0701 Battery Holder

\$ 2.93

With built-in switch stop, forward and reverse. Uses four D-cell flash-light batteries, producing 6 volts. This instrument can easily be replaced by a power pack at a later time.



0712 Two Strand Cable

20" long with male plugs.

\$.40



0711 Track clip

\$.25

The terminal clips can be snapped into any curved or straight track section as shown at the right. In order to bring power from the power pack into the rails, two clips must be used. For sidings, one clip will suffice.



size 4 1/2" x 3"

0704 Power pack

\$ 7.95

With speed control and directional control having a center off switch. Capacity 0 to 12 Volts D.C. at 1/2 Amp. For small layouts with one locomotive UL listed.



6" x 4"

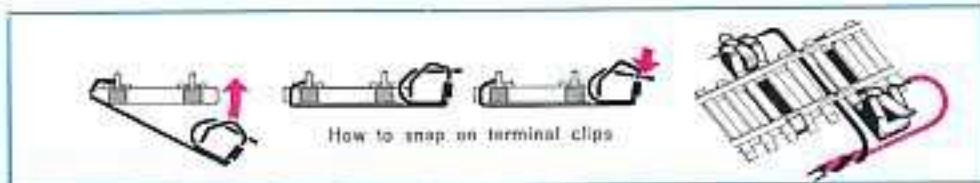


0708 Large Power Pack

\$ 19.98

Total capacity 1.6 amps.
Normal Use 0-12 Volts DC at .8 amps for 2-3 locomotives; plugs 1 and 2.
Pulse Power for extremely slow and finely controlled engine movements, or for connection to track segments in which reduced speed is desired; plugs 2 and 3.
Accessories 16 Volts AC at .8 amp for any number of switches, plus about 16 light bulbs or similar load.
 Finely regulated rheostat; center off. Two lights indicate short circuit or overload in either the AC or DC lines. Built to comply with latest safety regulations.

American made power packs may vary slightly in appearance from photo.



How to snap on terminal clips



0720 Momentary Contact
(Single Pole, Single Throw)
Suitable for installation in a control panel.

2 for \$ 1.29



0721 Switch Control

This control is used for operating electric switches giving an optical indication. Can also be used on HO systems. 12" Cable attached.

2 for \$ 2.50

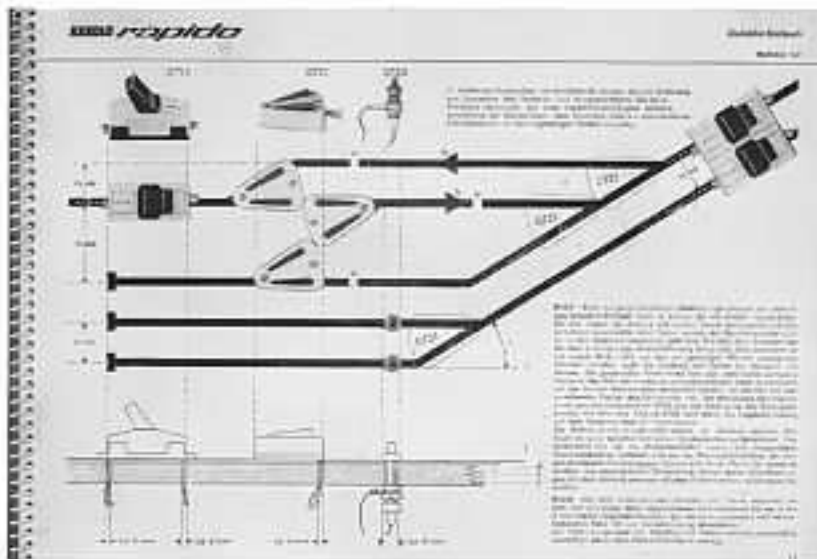


0725 Universal Switch
(Triple Pole, Double Throw)

\$ 1.98

This universal switch takes care of all the different functions required of a model railroad system. The housing can be lifted exposing its six screw terminals.

This switch can be used to control lights, signals with and without train control, or to change the direction of the locomotive. It can also be expanded to a relay by snapping in the electric relay drive 0745. Detailed instructions can be found in the Arnold rapido track layout manual.



In prototype practice large schematic control panels are found in control towers. These indicate the various tracks which are open to freight, passenger and switching traffic. A schematic diagram indicates the location of every switch and signal and has controls for them.

A model railroad can also contain such a diagram, because all Arnold rapido controls have been specially constructed for this purpose.

The track layouts manual 0020 shows you exactly how to construct such a control panel for your layout.

At the left there is a page from the track layout manual showing the use of switches 0725, 0720 and 0721 in a schematic diagram.



0741 Track Rectifier with Terminal Clips § 1.98

Functions as a one way valve.

With a track rectifier in connection with gap sections it becomes possible to set up reverse loops without any additional elements.

On deadend sidings a track rectifier prevents a locomotive from running up against the bumper. It does permit the engine to leave. A very interesting function!

2 1/2" x 6"



0745 Relays with automatic cut-out. § 3.98

Suitable for all model railroads. Remote controlled operation, 16 Volts AC, through two push buttons or automatic track contacts.

2 cables each 12" long, 2 crew terminals for attaching signals, 2 additional solder contacts for any desired additional functions.

2 built-in on-off switches plus one selector switch allow the relay to control numerous functions such as operating light signals as well as starting and stopping trains in conjunction therewith.



In addition, its long base will accept the universal switch No. 0725 and throw it through throw bar No. 0746 (see page 40). This adds further to the capabilities of the relay. The picture below shows this combination.



0744 Track Contact Activator 2 for § 1.49 with 12" Cable.

This contact is suitable for use on any straight track section on the layout.

Function and use: The wheels of a passing locomotive activate the solenoid of the attached item. This applies to switches 0152 or relays 0745. Examples for use are automatic block signals, automatic setting of switches, shutting on and off of illuminations by the trains and automatic reverse loops.



0760 Main Light Signal § 2.98

with red and green lamp.

Mast red and white; field for bulbs, grey and black. Height 1 1/2" - Length of Cables 12".



0789 Pair of Couplers \$.25
of nylon suitable for all locomotives and cars.



0790 Pair of Couplers, Long Shaft \$.25
For locomotives 0261, 0262, 0264-0267.



0790 Switching Couplers pair \$.90
with this switching coupler locomotives can uncouple automatically anywhere on the layout uncoupling track. See page 4.



0788 Pair of Wheels on Steel axle \$.15
with needle point bearings suitable for all cars.



0763 Pair of Brushes \$.30
for locomotives 0202, 0204, 0220, 0230, 0232, 0233, 0234, 0236, 0249, 0251, 0262, 0264, 0266, 0291.



0764 Pair of Brushes \$.30
for steam switchers and locomotives 0203, 0222, 0223, 0225, 0240.



0794 White \$.70
Miniature Bayonet Bulb for Locomotives 0232, 0233 and 0234, 8 Volts, 0.07 Amps.

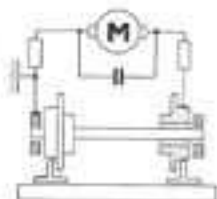


0793 White \$.35
Screw Base Bulb for Locomotives 0220 and 0223, 8 Volts, 0.07 Amps.



0746 Throw Bar \$.10
This bar provides the mechanical connection between relay 0745 and universal switch 0725.

0799 T-V Interference Suppressors \$.88
for eliminating complaints about FM and T-V interference. Can be attached between the motor and body housing and consisting of one ceramic condenser and two chokes. Complete instructions for installation are included.



0791 Red \$.70
0792 Green \$.70
Micro-bulbs, bayonet base, for singles, 16 Volts, 0.05 Amps.

**0192 Wood Screws**

Used to mount articles 0550, 0552, 0725, or 0745 to board. About 50 per box.

\$.98

**0759 Tools**

Pliers, screw driver, wrench. In short, the most important maintenance tools for N gauge trains.

\$.79

**0191 Spikes**

Used to mount track to board for permanent layouts. About 500 per box.

\$.50

**0715 Terminal Strip**

for the distribution, connection, and prolongation of several cables. Six poles with twelve terminals each of which can take many as 10 cables simultaneously. Length 2".

\$.49

Cables

Single and double strand cables for making electrical connections are kept in stock by your dealer.

All dealers stock spare motors for your locomotives under the following numbers:

MOTOR	LOCOMOTIVE						
0771	0201	0204	0230	0261	0262	0264	0266
0772	0220						
0773	0232	0233	0234	0249			
0774	0202						
0777	0223						
0778	0203	0240					
0779	0222	0225					

Other spare parts, which may not be listed here, are also available from your dealer.

**0190 Re-Railer**

Simplifies the placing of locos and cars on to all straight and curved track sections.

\$.40

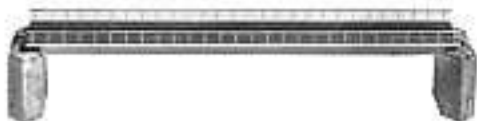


To get trains across cuts, rivers, obstacles, etc. it is necessary to have bridges or elevated sections. To get a train to the desired height, one should snap the bridge piers 0615 and 0616 together in the quantity wanted.

Ramps are constructed with our piers 0615 and 0616. The start and finish of an incline should be constructed in a smooth manner. A four percent grade will result if piers 0615 are used at five inch intervals.

To allow trains including electric type locomotives to pass under a bridge, the bridge must rest on a large pier. To reach this altitude requires only an approach equal to 45° of track (five sections 0101). If long trains are used however, or if the inclines are located in curves, it is recommended that the grade be kept to 3%. This means that 6" should be left between bridge piers as per this sketch.





0610 Straight Bridge Kit \$ 1.49
This kit contains bridges for two 9" track sections without piers. The bridges can be divided to fit tracks 0101, 0102 or 0103.



0611 Curved Bridge Kit \$ 1.49
The radius of the curved bridge corresponds to our 8" radius track sections. The contents of the kit provide for the construction of two 45° curves without piers and may be used for track 0131, 0132 or 0134.



0617 Bridge Assortment with Piers \$ 1.98
Length 16"



0615 Large Piers, 1-3/4" high
Can be snapped together; package of 4.



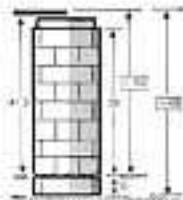
0616 Small Piers, 1-5" high \$.98
Can be snapped together; package of 20.

The Arnold rapido Bridge System

The straight and curved sections of this system are so designed that any track formation made with Arnold rapido tracks can be followed. To raise or lower such track sections, one need add only bridge piers 0615 and 0616.

Minimum Clearance

The various minimum clearances given in the track plans (in millimeters) also apply to electric locomotives with pantographs up. For the bridges in set 0617, one large pier 0615 is needed. For bridges 0610 and 0611, use a large and a small pier (0615 plus 0616).



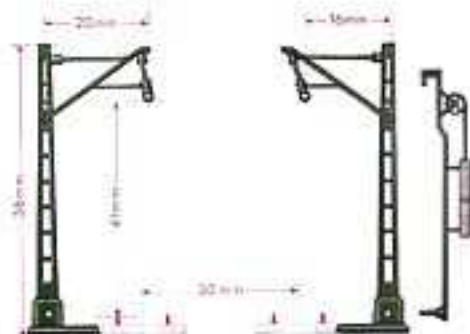
0615 + 0616

Catenary masts are without electrical function and intended to decorate the layouts used by electrical type locomotives.

The beautifully detailed masts are intended for a zig zag arrangement of the overhead wire such as is found in the prototype.

The illustration shows a portion of a layout equipped with catenary masts 0550.

All model railroad layouts used by electric type locomotives thereby obtain a realistic appearance.



0550 Box of 10 Catenary Masts

£ 2.50

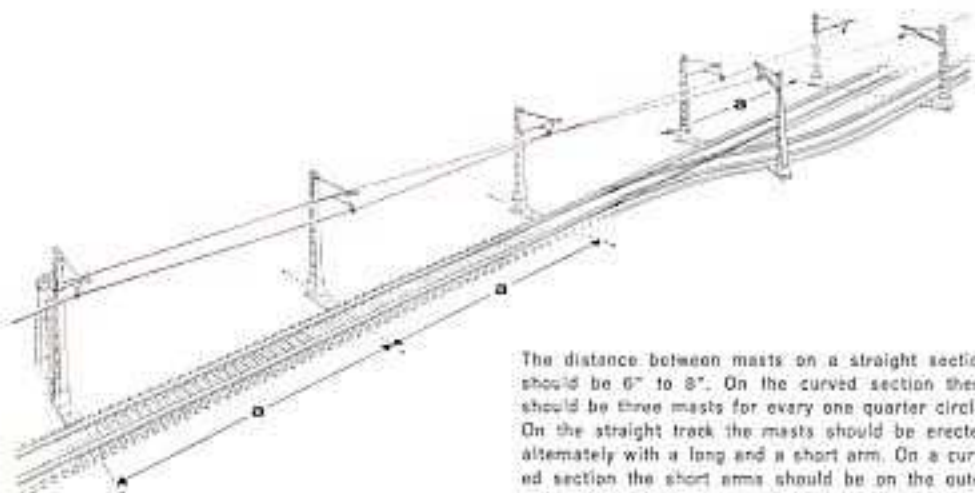
The box consists of 5 masts with a short arm and 5 with a long arm. It also contains two dummy pulleys for maintaining tension in the catenary. On permanent layouts, mast 0550 is set next to the track on the board, and attached thereto with a spike 0191 or wood screw 0192.

0554 Rubber Thread

£ .98

This thread makes an imitation catenary wire. It gives way, when it is desired to place locomotives or cars on the track.

A spool has about 80 feet of thread.



The distance between masts on a straight section should be 6" to 8". On the curved section there should be three masts for every one quarter circle. On the straight track the masts should be erected alternately with a long and a short arm. On a curved section the short arms should be on the outer rail and the long arm on the inner rails.





0552 Package of Tower Masts and Accessories.

Contains 4 tower masts, 2 dummy equalizers, and 2 side suspensions. The side suspensions can be attached to either or both sides of a tower mast. In this manner, tracks lying outside the tower masts can also be equipped with „catenary“.

Tower masts are also used to create tension at the end of an electrified line. It would then stand directly behind a bumper. If so used, the wire can be attached directly to the mast.

§ 2.98

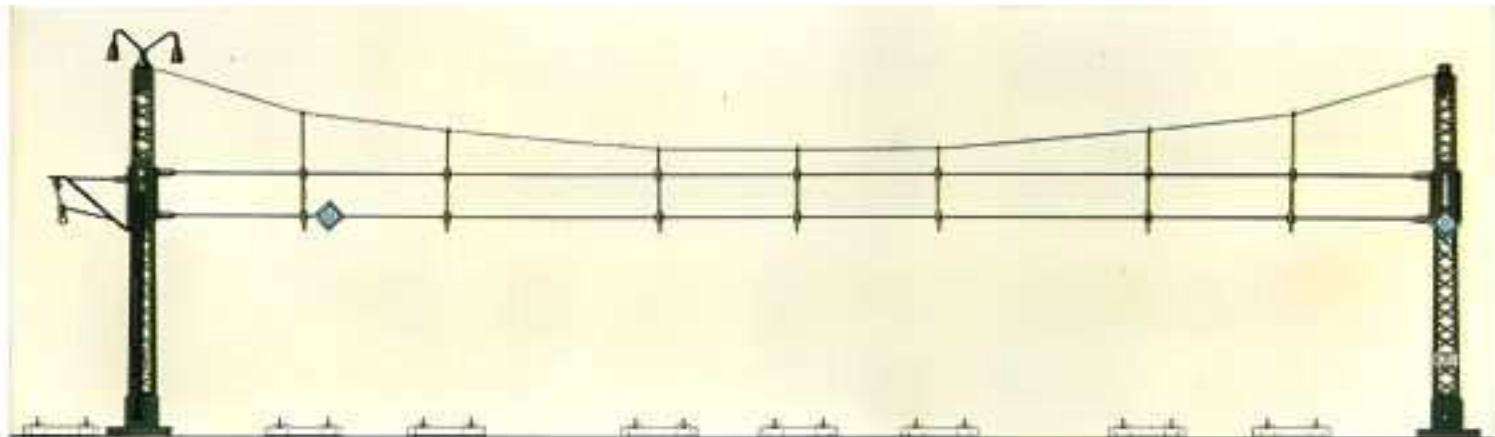
0553 Assortment of Tower Masts and Cross Suspensions.

§ 3.98

Where there are more than 3 tracks, in stations for example, the catenary wires are suspended from cross suspensions. These in turn are hung from tower masts.

The assortment makes it possible to cross the tracks two times, each crossing is over 6 to 8 tracks. It contains all parts which are in assortment 0552 plus the necessary steel cross suspensions, insulators, and bearings.

Also included is a full color cut-out sheet containing all special signals normally found on electrified lines.





0039 Diesel and Electric Train Shed Kit \$ 3.98

1 1/4" between track centers.

In this two stall shed locomotives up to a length 5" can be accommodated.

The two overhead doors are opened and closed automatically by the entering or leaving locomotive. Several engine sheds may be combined to provide a home for four, six or more locomotives.



6" x 3"



7" x 4"



0033 Steam Locomotive Shed Kit \$ 4.98

In this two stall shed locomotives up to a length of 5 1/2" can be accommodated.

The four moving doors are hung on hinges. This model is built in 19th century style and consists of 84 parts. It is a beautifully detailed structure.



**0630 Track Crossing
and Water Crane Kit** \$ 1.98

Crane swings on its base and is intended to supply water to steam locomotives. The other components in this kit are used to lay planks between tracks, create platforms, fences, etc. etc.

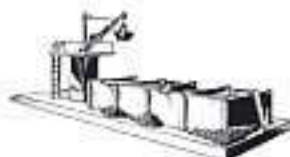
 16" x 3"



**0631 Water Tower
with Pump House Kit** \$ 2.98

Used to supply water to all railroad facilities in the station complex. Pipe shows water level.

 2" x 1"



**0635 Coaling Station
and Coal Crane Kit** \$ 2.98

Used to supply coal for all locos in the service facility. Coal bins divided into 3 parts by removable walls. Coal is loaded into lorry, and crane lifts it and swings it into tenders.

 4" x 1"

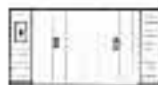
Detailed assembly instructions are included in each kit.



0670 Station Center

Kit \$ 3.98

This impressive looking building has a large lobby with counters for ticket sellers and an exit through to the tracks.



5 1/2" x 3"



0672 Cafe with Terrace

Kit \$ 3.98

This is an especially spacious and attractive building.



6" x 3"



6" x 3"



0673 Office Building

Kit \$ 2.98

Offices upstairs, stores downstairs.

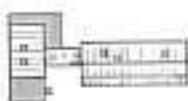
Diagrams show the dimensions of the buildings. They are 1/7 actual size.



0674 Railway Post Office

Kit \$ 2.50

From the lobby of the postoffice a covered passageway leads to the parcel post section. The kit could also be used as an industrial building.



6 1/2" x 3 1/2"

The combinations shown below had been made by combining the various Arnold rapido building kits. The instructions which are enclosed with each kit will offer additional suggestions for the construction of entire building complexes.

The various kits for buildings were designed for use with one another. They present the elements for endless possibilities of station and combinations according to ones own imagination.

To improve the appearance of the buildings we recommend using a dull plastic paint such as is stocked in hobby shops.

Manufacturers of model railroad accessories produce many other items for your Arnold rapido layout. Available at the present time in „N“ scale are foam plastic roadbed, buildings, trees, figures, as well as a trolley car cable system.



0672

0674



0672

0670

0673



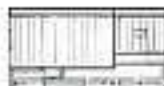
0672

0675

0675 Suburban Station

Kit \$ 2.98

The lobby and restaurant of this building present a very harmonious combination. The building can also be combined with kit 0676.



5" x 3"



0676 Flag Stop

Kit \$ 1.98

In order to increase the size of this local stop, two kits may be built end to end. The bases of kits 0675 and 0676 may also be used as a platform.



0678 Bungalow and Retail Stores

Kit \$ 2.50

Because of the small individual sizes, the three buildings can be installed in a variety of ways. They can stand alone or in combination.



4" x 2"



2" x 1 1/2"

Formerly Nos. 0681 & 0682.

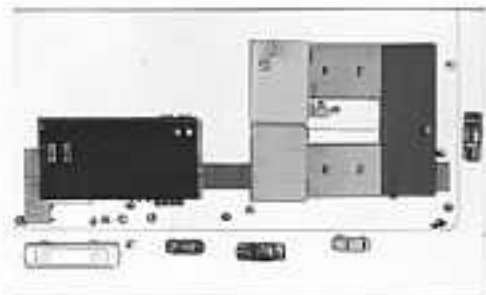




0679 Universal Building Kit \$ 4.98

This kit has been designed to create an entire complex of buildings 0572-0578, or to free lance. The various rectangular building blocks are so designed that even a beginner can create almost any modern building within a short time.

The various buildings can be formed into blocks, so that any real life situation can be duplicated.



The illustration shows a complex created from this kit.

The human figures and Arnold rapido automobiles are not included in this kit, but are available at all better dealers.

0677 Switch Tower Kit With Shed \$ 1.98

This building is also usable as a gateman's house.



3 1/2" x 2 1/2"

0680 Freight Station Kit \$ 1.98

Include office and warehouse with ramp for rail and highway traffic.



6" x 2 1/2"

0620 Station with Accessories

Base and roof are of plastic, sides of metal. Sold out.



10" x 2 1/2"

0632 Shed Assortment Kit \$ 1.49

Consists of four sheds, four crates, four benches, moss, 2 base plates. The natural reproduction of these sheds make them suitable for many uses such as tool sheds, supply sheds, hay sheds, as well as forest huts.



ea. 3" x 3"



0602 Telephone Poles and Phone Booth Kit. \$ 1.49

Contains twenty masts and one phone booth. These telegraph masts are found along side all non electrified lines. The phone booths are located at regular intervals and are usually made of a corrugated steel construction.



0641 Old Wooden Bumper without Track Kit. 2 for \$.98

This bumper can be snapped onto any straight or curved track section.



0603 Crossing Gate Keepers Hut 2 for \$.80 with Warning Boards Kit.

This building is best used with grade crossing.



0642 Track Scale with Phone Booth Kit. \$.98

The scale consists of a weighing shed the floor of which fits into any straight track section.



This cut out sheet is included with sets 0603, 0642 and 0677.

The signs are made to „N“ scale and realistically colored. They are used to decorate and complete various parts of the „N“ gauge layout.





0662 Passenger Car Assortment \$.98
Two VW's and two Mercedes 200.



0660 Assorted Trucks \$.98
Two VW open trucks and two VW Cambi cars.



0659 Assorted Passenger Cars \$.98
2 Ford M 17, 2 Opel Rekord

These cars are true scale reproductions of well known motor vehicles 1/160 actual size.

These models are intended to liven up the layout, and to bring action to portions not reached by the trains. The passenger cars and small trucks can also be led into the auto transporter No. 0498. The trucks and buses have glass enclosed cabs and twin tires on the rear axle. Bumpers and lamps have been colored silver. All vehicles are packed in bubble packs.



Length 2 1/4"



0663 Bus \$.98
Model of Mercedes Bus 0322 with interior detail. Finished in multiple colors with imitation glass windows.

Length 3 1/2"



0664 Tractor and Trailer \$.98
Realistically painted and lettered.



0665 Two Dump Trucks \$.98
Body can be raised and lowered.

Length 3 1/4"



0665 Tractor and Tank Trailer \$.98
Two piece unit.



0049 Flat Car Loads Kit

This assortment consists of one stack of lumber,

\$ 1.49

one stack of timber, one ship's drive mechanism, one large crate, two cable drums and one cylinder.

These assorted loads are suitable for activating freight stations, gondolas and flat cars.



Electric HO street car — Wiking body —

On the Arnold rapido 9 mm Track.
Modern 3 wheel street car with trailer,
Sprung pantograph.

This street car makes an ideal addition to HO model railroad layouts. Due to its sharp 8" radius, it can easily be incorporated. Also suitable as an interurban.

Special program



0911 Complete train set in package
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Overall length 12" — Scale 1:87

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