

# The O Gage

SEPTEMBER, 1950

Special Price

75c

This Issue

FOREIGN \$1.00



GREAT NAMES IN "O" GAGE  
MONARCH GMC  
TRU-SCALE LOBAUGH  
THOMAS ATHEARN  
KASINER SCALE CRAFT  
PITTMAN  
1950-1951

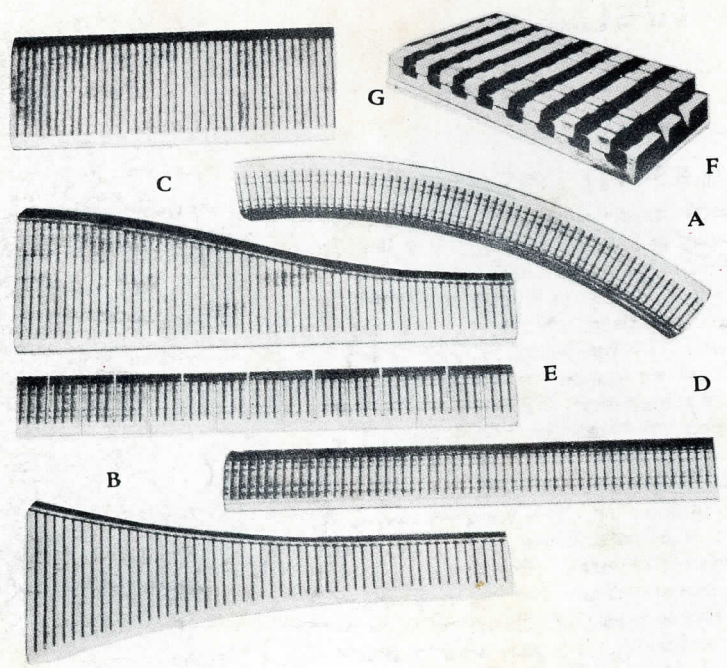
★ GMC Catalog

★ O Gage Directory

★ Parts and Price List

★ Articles

# ROADBED



### TRU-SCALE PRICES

- A. CURVED ROADBED. Milled, ends trimmed at proper angle to insure perfect circle. Track groove in curve milled slightly wider than on the straight in order to ease friction or grinding on wheel flanges. Check GMC Catalog Section for complete prices.  
 Catalog #5002 to #5014, per foot ..... \$ .30
- B. WYES. Designed for use with any size radius. Can be trimmed in same manner as described in CROSSOVER BLOCKS (G) for short tie lengths.  
 Catalog #5017, each ..... \$1.15
- C. SWITCH BLOCKS. Milled to conform to NMRA standards. Lead end of block matches perfectly with roadbed and other end of sufficient width for minimum double track centers.  
 #4 Turnout, Catalog #5018 (R) & #5019 (L), each ..... \$1.15  
 #6 Turnout, Catalog #5020 (R) & #5021 (L), each ..... 1.20  
 #8 Turnout, Catalog #5022 (R) & #5023 (L), each ..... 1.25  
 #6 Mounted, Catalog #5025 (R) & #5026 (L), each ..... 5.75
- D. STRAIGHT ROADBED. Straight as a die. Ties true to scale plus outstanding feature of a tie plate on every tie.  
 3 foot lengths, Catalog #5000, per foot ..... .23  
 2 foot lengths, Catalog #5001, per foot ..... .21
- E. SUPERFLEX. This double-jointed roadbed is a special soltted type. Can be bent in either direction without bucking. Exceptionally good for easement curves or wherever odd radii are required.  
 Catalog #5015, per foot ..... \$ .30

- F. BRIDGE STOCK. Milled of standard stock with straight sides and milled-out underpart to simulate bridge stringers. Between each tie are two openings which give appearance of the real thing.  
 Catalog #5016, per foot ..... \$ .50
- G. CROSSOVER BLOCKS. Also made for minimum double track centers. Long enough to accommodate two or four switches as desired. After switches are laid, stock between two tracks can be removed so ties leading up to crossover will be short or standard width.  
 #6 Crossover Block, Catalog #5024, each ..... \$1.30  
 #8 Crossover Block, Catalog #5030, each ..... 1.40

### CURVED SECTIONS, PER INCH @ 30¢ FOOT

Inches	Price	Inches	Price
14	\$.35	27	\$.68
15	.38	28	.70
16	.40	29	.73
17	.43	30	.75
18	.45	31	.78
19	.48	32	.80
20	.50	33	.83
21	.53	34	.85
22	.55	35	.88
23	.58	36	.90
24	.60	37	.93
25	.63	38	.95
26	.65		

**G.M.C. SALES & SERVICE**

**O.GAGER**

# The O Gager

Editor  
Joseph R. Matthews

★ ★ ★  
Staff  
Employees

GENERAL MODELS CORPORATION

## EDITORIAL

### WE'RE ALL TRYING

Choosing words for an editorial that would appear in a magazine that will be read and reread during an entire year is indeed a difficult problem. Much has been said by writers, manufacturers and individual customers about the pleasures, creativeness and "the fun of model railroading." There is little that we can say other than the fact that we sincerely hope that this book will aid you in your selection of items for your pike.

We have incorporated a complete directory of products made by other manufacturers whom we recommend unqualifiedly. We sincerely believe that all of these manufacturers have the model railroader's interest at heart. We trust that you will keep this book and use it as your guide.

As General Models goes into its fourth year of O gage manufacturing, we again wish to assure you that we will do everything within our power to maintain and improve the quality of our merchandise and further bend every effort to preserve and promote the gage.

### COVER

Just an idea of some of the many steps taken to bring you the best in O-Gage: Clockwise from lower left:—Basic idea transferred onto working drawings — Basic parts being worked — Drilling locomotive side frame — Processed parts drawn from stock room — Assembly line procedure — Packing kits — "FRAGILE" — Another one for his layout.



Vol. I

No. VII

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The special price for this issue only is 75c domestic, \$1.00 foreign. The regular price is 15c a copy—\$1.50 for a year's subscription.

# GENERAL MODELS CORPORATION

## States Its

# Sales Policy

by JACK POORE, Sales Manager

From time to time GMC has been asked just what brought about the current Sales Policy — why we have turned completely to "Direct To Consumer" merchandising. Several times in the past, Joseph R. Matthews, President of General Models Corporation, has set forth the reasons for such a change. Basically, they are these:—

Many customers had complained to us by mail, by phone and in person that their local model and hobby shops refused to carry any kind of a worthwhile stock of "O" gage equipment. Only by specifically ordering items (in many cases with advance payment) was the hobbyist able to get the dealer to obtain various parts.

This type of dealer claimed that HO gage was a mass market and that O gage was dead. O GAGE IS NOT DEAD, NOR IS IT DYING!!! There are MORE model railroaders in O gage now than ever before. A quick peek into our order department should convince the most skeptical. Further, this type of dealer saw fit to malign GMC and other O gage manufacturers when we decided to embark on our straight mail sales policy. After refusing to properly serve their customers, they objected when GMC began to bring service to the customer. Many vicious rumors and remarks were forthcoming. Needless to say, we have weathered this "storm."

Conversely, many dealers have been extremely cooperative with their customers and with us. It has been very regrettable to us that we, in fairness to everyone, were unable to continue to supply these dealers. Always interested in their customers' wishes and needs, they strove to keep in supply items which they knew would be required. Understanding our situation, they find no fault with us.

The second and most important reason, to you as a consumer, was the fact that O gage equipment would now be available at greatly reduced prices. These prices have greatly stimulated sales and have brought into the fold quite a few new model rails. Up to now we have been able to continue these lowered prices.

Unfortunately, due to the world situation, at this writing we are having considerable difficulty in obtaining certain component parts. The Armed Forces have need for basic raw materials that go into the kits which you are ordering in such quantities. It may well be that certain substitutions must be made in the future — if such is the case, you will be notified. By the same token, those materials which are available have increased in price to the extent that we must charge more for

the finished items in order to stay in business. You will notice throughout the magazine that prices are somewhat higher than heretofore. Regardless of this fact, O gage equipment still costs you less than it did under the old policy of channeling through dealers. In spite of the increase mentioned, we are striving to keep costs as low as possible in order to continue to give you the benefits of any savings. If, as we sincerely and fervently pray, world conditions brighten up to the extent that basic raw material costs decrease, this decrease will be passed on to you in the form of lowered prices.

We think that you will be interested to know that General Models Corporation has for the past two months been engaged in precision work for the Armed Forces. Up to this writing only our engineering and tool and die people have been actively effected. Of course, it has added a burden on the rest of us, but we are gratified to know that our work is of value to the government and that we are able to satisfactorily perform these tasks. It gratifies us further to know that in the past we have been turning out precision work for our model railroaders and will continue to do so.

In connection with Defense operations, rail shipments of consumer goods are becoming unsteady. This further adds to our difficulty in supplying you with items as soon as you would like. For instance, brass rail shipped from the mill takes as much as four times as long to reach us as formerly. When it does arrive, we find our order has been cut in half. We may find it necessary to number orders for brass rail as received and fill these orders as we in turn, receive rail. Also, large orders may be decreased, depending upon availability.

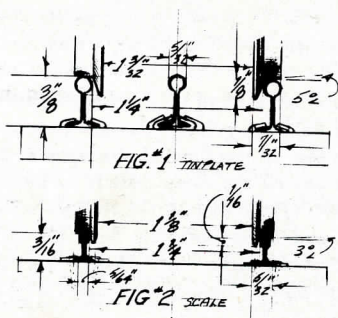
We sincerely hope that no such measures must be taken, but it is a decided possibility. Model railroading survived two wars and will survive this one. Many of our customers are medical people and they point out the therapeutic value of model railroading. Armed Forces physicians and surgeons will also testify to this fact. We feel that our models will be doing good wherever they may be.

Whatever is required of us from a Defense standpoint, we are ready. We know that our customers stand 100% behind us.

# SEMI SCALE TINPLATE

Due to many repeated requests and in an effort to bring every reader up to date, this issue of the O Gager carries a resume of articles written by Mr. Frank Libuse. GMC has no intention of forgetting the "tinplaters."

The primary difference between tinplate and scale operation lies in the rail structure. Note in the illustration below how the tinplate rail has a circular cross-section while the scale rail is rectangular in cross-section.



At first glance it is obvious that, were only straight sections of track involved, either tinplate or scale wheels would operate on both tracks. However, as sharper curves are involved on the tubular rail in tinplate operations the scale flange, in negotiating these curves, would climb over the outside rail more often than not. To eliminate this trouble, deeper flanges are used, bringing the backs of the wheels closer together. This larger or deeper flange makes a higher-than-scale rail necessary and consequently a deeper switch, as wheels roll through switches on their flanges. Thus, a scale wheel will wander through and fall into a tinplate switch because the back-to-back dimension is greater, the tire surface narrower. The gage, of course, is the same.

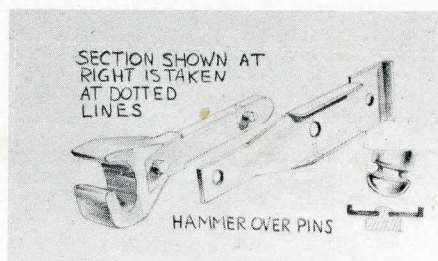
In attempting to operate tinplate wheels on scale track, the deeper flanges ride or

bump along the spikes holding down the scale rail. In the switches, the smaller back-to-back distance on the tinplate wheels will bind on the guard or wing rails and climb or jump out going through the frog.

With a better knowledge of the two types and of the limitations of each, you are in a better position to make decisions concerning the future of your layout.

One of the problems that constantly confronts tinplate model railroaders is the adaptation of scale cars to use on tinplate track. In reality this is not a problem. In semi-scale operation on tinplate, the model railroader wants the same basic type of operation from a scale car that he gets from a tinplate car—that is, the opportunity to couple automatically on any piece of track. Naturally, this can be accomplished only when the trucks place the coupler in the position of proper alignment.

To solve this problem, General Models recently developed a tinplate coupler and tinplate coupler adapter. The purpose of this tinplate coupler adapter is to assure you of the necessary alignment to allow coupling on



either straight or curved track. Also, the new GMC tinplate coupler has a full jaw that allows sufficient play permitting a Lionel automatic coupler to lock with it for perfect coupling. All tinplate car kits sent out from our factory now contain the tinplate couplers and adapters.

### HOW TO DISTINGUISH BETWEEN AN AC-DC MOTOR AND A DC PERMANENT MAGNET MOTOR

(Reprinted by request)

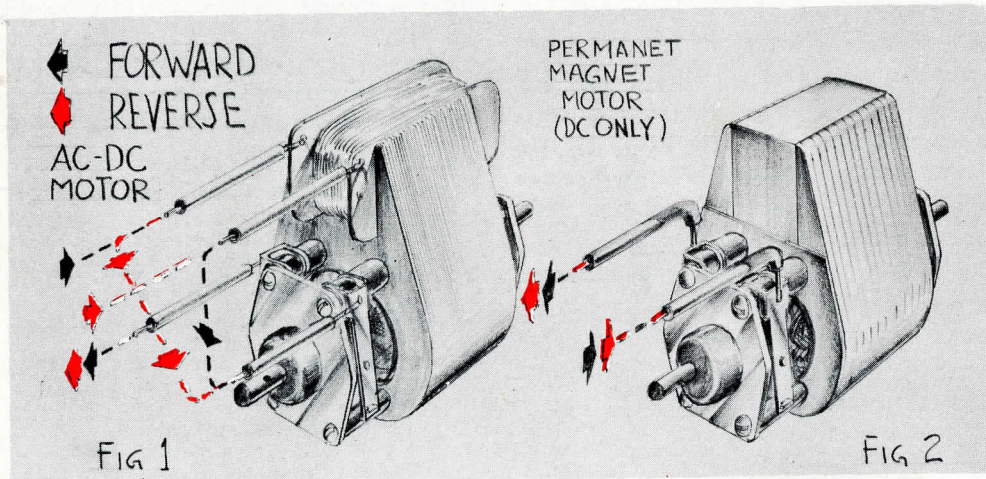
by CLARK JACOBS

Essentially electric motors consist of an arrangement of magnetic fields of force whereby one field is fixed and the other is free to move (rotate). The magnetic fields in a motor may be obtained in two ways; one, wrap a piece of wire carrying an electric current around a piece of iron, the second is to use a bar of steel which has been permanently magnetized. The constant rotary motion of the motor is achieved mechanically by the commutator which keeps putting current into the proper winding of the movable magnetic field with relation to the fixed field to produce movement (rotation).

Figure #1 shows a "General" 1" stack (of iron lamination) #1407 AC-DC motor. Notice this motor has two pair of wires. One pair runs to and around the iron core of the stationary magnetic field, and the other pair runs to the timing device (commutator) which, in turn, supplies the electric current to the proper pair of wires in the rotary

Figure #2 shows a "General" 1" stack #1405 DC permanent magnet motor. This motor you can see has only one pair of wires and they run to the brushes through to the commutator. Again to produce the rotary magnetic field, however, the second of fixed field is now furnished by a permanent magnet located in the same position as the fixed field wire of the wound field type motor. This block of magnetic steel in the permanent magnet type motor, along with just two leads going to the brushes, make it easy to identify as a type.

Just one more word of warning, in an electric magnetic field the polarity changes as you change the direction of the flow of the current through the wire around the iron. This is no problem in the AC-DC type motor as the changes are instantaneous, and affect both the field and armature windings at the same time. However, in using a permanent magnet motor, the polarity of the fixed



field which gives us our second and movable magnetic field. Thus, we see that in the motor in Fig. #1 we have a motor that depends upon electric current to furnish both stationary and movable fields of magnetic force. Hence, the name AC-DC motor is a motor where either alternating or direct current will produce the magnetism to make the motor operate.

field is unchanging; thus, if we use AC current in it the changes in direction of flow of the alternating current in the armature, or rotary field, will change back and forth but the permanent magnet field will not. Therefore, the armature wants to rotate first in one direction, then in the other (60 times a second) which will produce a humming noise, vibration and burn up the motor.

## Repair Department Speaks

(Reprinted by request)

by CLARK JACOBS

Our Research Department discovered a much improved electrical path for both powered and dummy F-3 road diesels. Instead of jumping current from the king-pin in the dummy truck and the solder lug on the brass gear box in the power unit to the lights and motor, we now recommend the jumper wire to the motor and lights be soldered or fastened securely to the bronze spring clip which locks the truck together. This will give a smooth, unbroken flow of current to the lights and motor. In the gear boxes, it will add many hours of life to the gears; as prior to connecting directly to the clip, the current took the path of least resistance to the brass gear box side which was through the working surface of the gears. This, naturally, pitted them and literally burned them away as the DC current arced on each contact break.

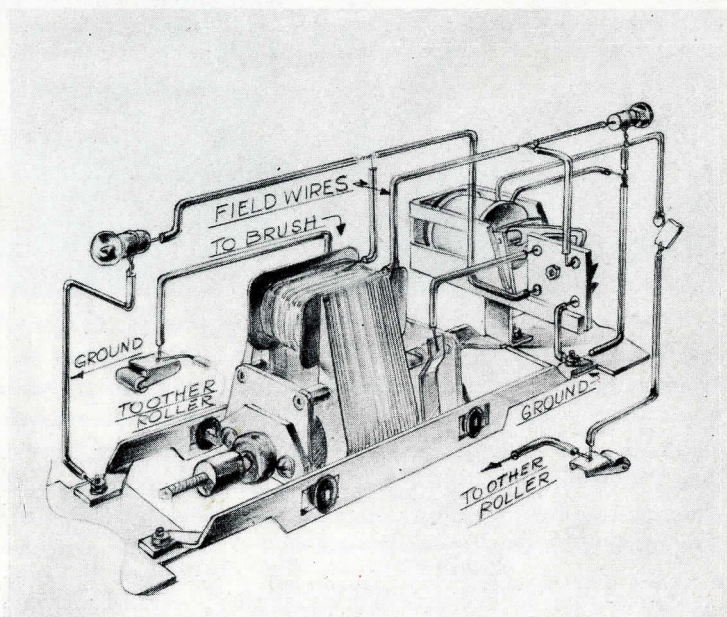
### SEQUENCE REVERSE DIAGRAM

This wiring diagram shows a back-up light. If the wrong bulb lights when engine goes forward, reverse the leads on the brushes. A holding switch is also shown in the circuit but is unnecessary. This switch permits manual selection of continuous operation in either direction or holding in any position. This diagram applies to any AC series-wound motor.

This brings us to a point which needs clarification: by the many "comments" we receive, it seems many of you find it difficult to tell an AC from a DC motor. The basic difference between an AC or Universal field wound motor and a DC or permanent magnet motor is as follows: The AC motor has a wound field and consequently four leads for hooking up. Two of these leads are from the brushes and two are from the field. A DC motor has only two leads, both of which are from the brushes and the field is a rectangular piece of steel which is a permanent

magnet. It must be remembered that an AC motor may be operated on either AC or DC current (the latter with use of a rectifier) and a DC motor may be operated on *DC or direct current only*.

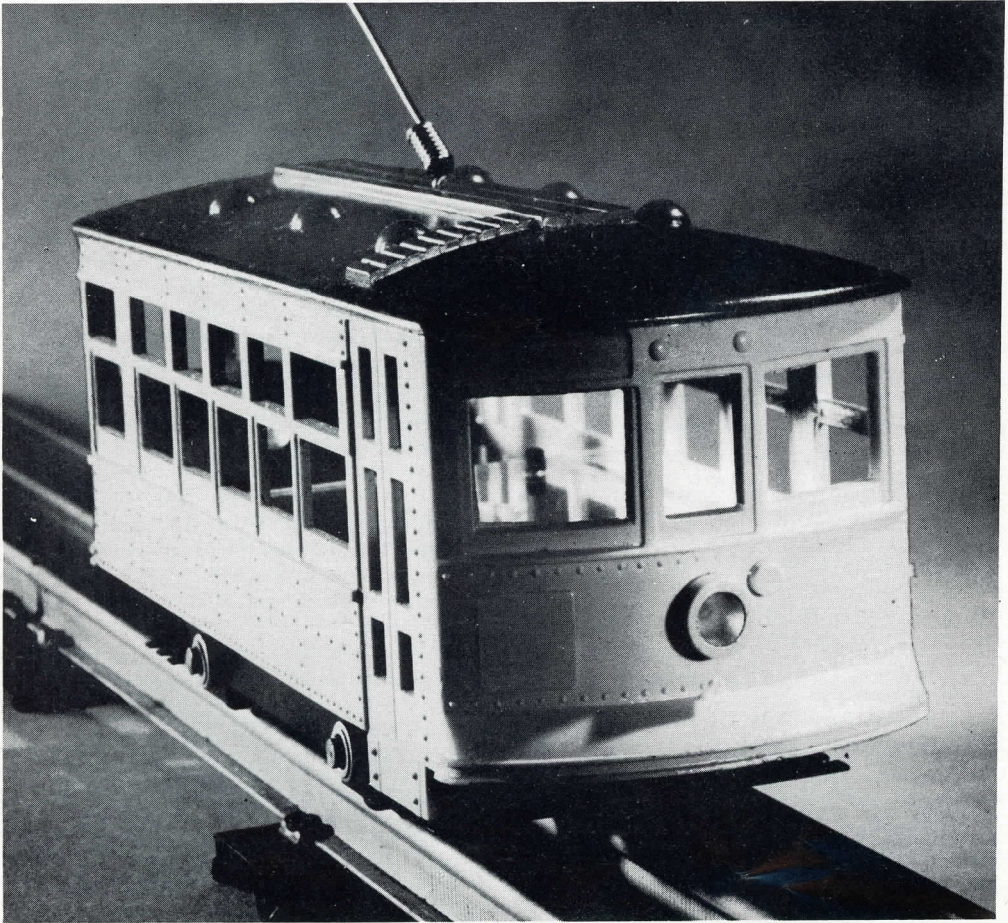
Also, there seems to be some problem in wiring it with relation to the field and brush hook-up. The "General" (GMC Motor) and other motors used in model railroading are series-wound and are to be connected with the armature circuit in series with the field. This, then, means that the current should flow (in a comparative way to a slow-moving stream of water) through the brush into the commutator which, in effect, serves as a valve and selects mechanically the correct coil for the current to follow through the armature. This makes an electro-magnet, momentarily, of the proper core in the armature. From this coil in the armature, then, the current flows back through the commutator, through the second brush to one



wire of the field coil producing the second electro-magnet and thus causing the rotary motion of the motor. The current then leaves the field coil by way of the second field wire to complete the motor circuit.

# GMC "ELECTRACTION" STREETCAR

FOR TINPLATE OPERATION



The famous GMC Election-powered Streetcar, for operation on three-rail O gage tinplate track. Polystyrene plastic body and roof — yellow and red. Complete with front headlight and dummy spring-type trolley pole. Rivet and ventilator detail cast right on body and roof for realism. Streetcar is in proportion with O gage tinplate sets.

Merely place on any three-rail electrified O gage track (Lionel, Marx, Gargraves or American Flyer "O"), give it a push and away it goes! Powered by ELECTRACTION, which utilizes front axle as rotor and copper-bakelite combined pressure-cast wheels as

brushes. No switches, no brushes to pit or wear, nothing to replace but bayonet-base 6-8v automotive bulb. Only moving parts are wheels and axles. Occasional oiling with a drop of light oil on axle bearings only maintenance required. Third-rail pick-up is slide type with very gentle spring action to eliminate excessive wear.

Available at leading department, toy, hobby stores. If your dealer cannot supply, order direct. Fully guaranteed. Completely assembled, ready to run. Not a kit. Shipped Postpaid. No. C.O.D.'s.

**Catalog #6000 .....\$3.95**



# G. M. C. PARTS AND PRICE LIST

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Adapter, Body Bolster, Tinplate	1360	pair \$ .25	Baltimore & Ohio "Sentinel"	3632	each \$ 3.95
Adapter, Coupler, Bolster,			Burlington	3625	each 3.50
Tinplate	3821	pair .20	Canadian Pacific	3631	each 3.50
Air Horn, F-3 A	213	pair .25	Chesapeake & Ohio	3628	each 3.50
Air Horn, Long	1025	each .15	Chesapeake & Ohio—New Style	3634	each 3.50
Air Horn, Set (1 long, 1 short)	1028K	set .30	GMC Special	3635	each 3.50
Air Horn, Short	1028	each .15	Gulf, Mobile & Ohio	3623	each 3.50
Air Horn, 24", Diesel	2142	each .15	Lackawanna	3627	each 3.50
Arm, Contact, Pick-up Shoe	4027	each .15	New York, New Haven		
Axle and Worm Gear Assembly	4060	each .75	& Hartford	3630	each 3.50
Axle, Driver Assembly			Nickel Plate	3629	each 3.50
(Axle w/Gear)	1562	each 1.50	New York Central—		
Axle, Driver, Knurled	1530	each .45	"Pacemaker"	3620	each 3.80
Axle, Driver, Plain	1277	each .25	Pennsylvania	3624	each 3.50
Axle, Pilot Truck	1349	each .10	Roberval Saguenay	3633	each 3.65
Axle, Standard, Knurled, Scale	4066	each .10	Seaboard—"Orange Blossom		
Axle, Standard, Scale	1524	each .10	Special"	3626	each 3.50
Axle, Tinplate	2148	each .10	Union Pacific	3621	each 3.50
Backhead, Firebox, Articulated	1807	each 2.00	Box Front, Tool, Caboose	3170	each .40
Backhead, Firebox, Mountain	1704	each 2.00	Box, Tool	2119	each .35
Backhead, Firebox, Pacific	2128	each 1.75	Box, Tool, Wood, Caboose	3171	each .15
Backstop, Tender, Atlantic	1154D	each .85	Brace, Cross, Wood, Reefer	3541	each .10
Bar, Coupler Release, Bot. Op.	2156	each .15	Braces, Roof Walk	3014	pair .10
Bar, Coupler Release, Top Op.	2155	each .15	Bracket, Airtank	1703	each .15
Bar, Equalizer, Truck,			Bracket, Bell	1082	each .60
Mountain Tender	1758	each .10	Bracket, Bell, Pacific	2130	each .60
Bar, Support, Motor Mount,			Bracket, Bell, Switcher	1082D	each .60
Diesel Switcher	4072	pair .75	Bracket, Brake Cylinder	1593	each .30
Bar, Support, Motor Mount, F-3	4044	pair .85	Bracket, Centering, Pilot Truck	1143C	each .50
Beam, Pilot	1122	each 1.00	Bracket, Draw Bar	1115	each 1.10
Bearing, Axle Gear	1747	each .25	Bracket, Draw Bar, Mountain	1711	each 1.25
Bearings, Ball Journal, F-3	1013	each .15	Bracket, Draw Bar, Pacific	2127	each 1.25
Bearing, Ball (Loco Gear Box)	1597 <sup>1</sup>	each 2.25	Bracket, Feedwater Heater, Elesco	1805	
Bearing, Box, Main Driver,			Articulated	1822	each 1.75
Mountain	1715	each .35	Bracket, Link	1110	each 1.00
Bearing, Driver	1132	each .20	Bracket, Marker Light	1605	pair .15
Bearing, Side Plate, Diesel			Bracket, Motor Mount,		
Power Truck	4073	each .20	Articulated	1836	each .85
Bearing, Sleeve, Worm Shaft	1746	each .25	Bracket, Motor, Atl., 10 Wheeler		
Bearing, Worm Gear and Pinion	1739	each .25	and Pacific	1566	each .85
Bell Crank, Reverse	1086	each .15	Bracket, Motor, Pacific	1566P	each .85
Bell, Open	1083A	each .15	Bracket, Motor Mount, Mountain	1718	each 1.00
Bell Set	1082K	set .75	Bracket, Motor Mount, Switcher		
Bell Set, Diesel	1082KD	set .75	and F-3	4045	pair .50
Bell, Solid	1083B	each .15	Bracket, Pipe Hanger	1649B	pair .20
Block, Center, Pickup Shoe			Bracket, Smoke Box Front		
(Thomas)	4028	each .15	(Atl. and 10 Wheeler)	1618	each .35
Block, Holding Switch	4086	each .20	Bracket, Sequence Reverse	4083	each .35
Board, Placard	3047	each .05	Bracket, Worm Drive, Atl., Pac.		
Boards, Roof, Reefer	3511	each .25	and 10 Wheeler	1565	each 1.50
Boiler, Articulated	1802	each 35.00	Brake Cylinder	1129	each .30
Boiler, Atlantic	1602A	each 15.00	Brake Set, A.B., Pass.	1698A	each .25
Boiler, Mountain	1701	each 22.50	Brake Set, Freight	1698B	each .25
Boiler, Pacific	1602P	each 17.50	Brake Wheel, Ajax	3125A	each .15
Boiler, Ten Wheeler	1602	each 12.50	Brake Wheel, Monarch, Diecast	3001	each .15
Bolts, Nose Assembly, F-3 A	222	each .35	Brake Wheel Set, Ajax, Kit	3125	each .35
Bolster, Body (Diecast)	3027	pair .30	Brush Assembly, Motor, 1 pair	1410	pair 1.00
Bolster, Truck, Andrews &			Buffer, Tender, Atlantic and		
Bettendorf	1389	each .10	10 Wheeler	1136	each .30
Bolster, Truck Assembly, Switcher	4070	each .10	Bulkhead, Cab, Front,		
Bolster, Truck, F-3	1004	each .50	Ten Wheeler	1603C	each .50
Bolster, Truck, Mountain Tender	1757	each .35	Bulkhead, Cab, Rear,		
Bolster, Truck, Passenger	1520	each .35	Ten Wheeler	1603B	each .60
Bolster, Truck, Diesel Switcher	4021	each .10	Bulkhead, Cab, Switcher, Front	4003	each .75
Booster, Trailing Truck	1726	each 1.25	Bulkhead, Tender, Front,		
Box Car Kit, 40' Steel, Basic			Atlantic	1154C	each .70
(less trucks, sides & couplers)	3600	each 2.25	Bulkhead, Tender, Front,		
Box Car, 40' Steel, Less trucks, Kit			Mountain	1751	each 1.25
Baltimore & Ohio	3622	each 3.50			

# ALPHABETICAL PARTS AND PRICE LIST (Continued)

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Bulkhead, Tender, Front, Pacific	2136	each \$ 1.10	Driver Assembly, 70", Main, Insulated	1578	each \$ 1.00
Bulkhead, Switcher, Rear	4002	each .85	Driver Assembly, 70", Main, Uninsulated	1579	each 1.00
Bulkhead, Switcher, Front	4003T	each .75	Drive Assembly, Worm, Pacific	1574P	each 8.50
Bushing, Steam Pipe	1029	each .10	Driver Center, 70"	1275	each .75
Bushing, Wheel	1348	each .07	Driver Center, 70" Main	1276	each .75
Cab, Hatch	1604	each .20	Ends, Box Car, Corrugated	3007	pair .50
Cab, Body, Articulated	1808	each 3.50	Ends, Box Car, Dreadnaught	3008	pair .50
Cab, Body, Pacific & Mountain	1603P	each 3.00	End, Caboose, Wood	3161	pair .25
Cab, Body, Standard	1603A	each 2.75	End, Reefer, Wood, Scribed	3520	pair .25
Caboose Kit, less trucks	3612	each 4.50	End, Dreadnaught, 5-4	3048	pair .30
Check Valve, Sellers	1601	each .40	End, Locomotive, F-3	404	each 2.50
Clip, Bolster Assembly, Atwater	C-2032	each .15	End, Steel Box Car, Wood, Style 2	3055	pair .20
Clip, Coupler Centering	4036	each .15	End, Tender, Rear, Mountain	1752	each 1.25
Combination Lever	1089	each .15	End, Tender, Rear, Pacific	2137	each 1.25
Compressor, Air, Cross Compound	1610	each .30	Equalizing Bar, Truck, Passenger	1523	pair .25
Coupler and Adapter Assembly Combination (Tinplate)	3822	pair .30	Exhaust Stack, Roof, F-3	409	each .15
Coupler Pocket, Large	3025	pair .25	Exhaust, Steam Jack, F-3	507	each .15
Coupler Pocket, Small	3029	pair .25	Flat Car, Drop Center, Body Casting	3610C	each 2.00
Coupler, Bot. Op., Scale, Monarch	3818	pair .98	Flat Car, Drop Center, Kit, Less Trucks	3611	each 3.50
Coupler, Dummy, Scale, Monarch	3816	pair .25	Flat Car, B & O, Railcraft	5061	each 3.95
Coupler, Ramp Op., Scale, Monarch	3823	pair .98	Flat Car, B & O More Service, Railcraft	5064	each 6.25
Coupler, Top Op., Scale, Monarch	3817	pair .98	Floor, Cab, Hinged, Articulated	1810	each 3.50
Coupler, Tinplate, New, Atwater	3820	pair .25	Floor, Caboose, Wood	3163	each .25
Coupling, Drive, K & D	1228	each .50	Floor, Tender, Mountain, Wood	1755	each .35
Coupling, Drive, Pittman	1594	each .50	Floor, Tender, Pacific, Wood	2139	each .35
Crankpin, Main	1531	each .25	Floor, Reefer, Wood	3501	each .25
Cross Beam, Tender Side, Ten Wheeler	1154E	pair .60	Floor, Steel Box Car, Wood	3056	each .15
Cross Brace, Underframe	3040	doz. .60	Frame, Main, Rear Mech., Articulated	1830	each 1.00
Cross Head	1111	pair .60	Frame, Main, Mountain	1710	each 1.25
Cylinder Assembly (Cylinder, Crosshead Guides, Piston Rod Bushings)	1590	each 2.75	Frame, Pilot Truck Assembly, Articulated	1842	each .95
Cylinder, DeLuxe, Atlantic	1156B	each 1.65	Frame, Tender, Atlantic	1155	each 1.95
Cylinder, DeLuxe, Ten Wheeler	1156	each 1.65	Gear Box, Driven End, Less Wheels	4059	each 8.50
Cylinder, Front, Articulated	1819	each 2.75	Gear Box, Spur End, Less Wheels	4065	each 4.00
Cylinders, Mountain	1712	each 2.75	Gear Mechanism Assembly, Mountain	1730	each 6.25
Cylinder, Rear, Articulated	1831	each 3.00	Gear, Spur, Brass	4049	each .30
Cylinder, Standard, Atlantic	1156A	each 1.65	Gear, 32 T, Double Thread	1223	each .85
Cylinder, Standard, Pacific	1156P	each 1.65	Gear, Fibre	4050	each .40
Cylinder, Standard, Ten Wheeler	1156	each 1.65	Gear, Worm	4052	each .35
Deck, Tender, Atlantic	1154B	each .85	Generator, Turbo	1600	each .15
Deck, Tender, Mountain	1753	each 1.35	Gondola Car, Erie, Railcraft, Kit	5060	each 5.25
Deck, Tender, Pacific	2138	each 1.25	Gondola Car, M.P., Railcraft, Kit	5062	each 5.25
Deflector, Smoke	1603D	each .40	Grabirons	3009	doz. .20
Diaphragm, Paper, F-3	508	pair .20	Grabirons, End and Nose, F-3, Set of 4	515	set .10
Door, Box Car, Corrugated	3034	pair .30	Grill, Long, Medium and Short, Acetate Sheet, F-3 (Includes Windows)	400	sheet .65
Door, Box Car, Panelled, New Style	3052	pair .35	Guide, Cross Head	1570	each .07
Door, Caboose, Diecast	3168	pair .50	Guide, Cross Head, Articulated	1820	each .10
Door, Freight Car, Automobile, Set of 4	3003	set .50	Hand Hold, Roof	3013	each .02
Draw Bar	1114	each .35	Handrail, Cab, F-3 A	216	pair .10
Draw Bar, Articulated	1829	each .35	Handrail, Brakeman's, F-3, Set of 4	503	set .10
Draw Bar, Coupling, Bot. Op., F-3	511	set .25	Handrail, Engineerroom, F-3, Set of 4	504	set .10
Draw Bar, Locomotive Tender, Articulated	1835	each .35	Handrail, Cab, Switcher	4013	pair .05
Drive Assembly, Worm, Atl., Pac. and Ten Wheeler	1574	each 8.50	Handrail, Front and Rear, Switcher, Tinplate	4010	pair .10
Driver Assembly, 70", Insulated	1580	each 1.00			
Driver Assembly, 70", Uninsulated	1581	each 1.00			

# ALPHABETICAL PARTS AND PRICE LIST (Continued)

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Handrail, Front and Rear, Switcher, Scale	4010K	pair \$ .10	Link, Cross Head	1091	each \$ .15
Handrail, Front (side), Switcher	4011	pair .05	Link, Exhaust, Long	1811	pair .17
Handrail, Rear Steps (side), Switcher	4012	pair .10	Link, Exhaust, Short	1812	
Hanger, Guide and Link Bracket	1112	each 1.00	Link, Lifting, Valve Gear	1087	each .15
Hanger, Link Bracket	1113	each 1.00	Link, Valve Gear	1085	each .15
Hanger, Pipe, Kit	1649K	each .35	Loco, Articulated, Complete w/Tender, Kit	1800	each 125.00
Headlight, Diecast, With Number Boards	1599	each .15	Loco, Atlantic, Complete w/Tender, Kit	5	each 44.50
Heater, Feedwater	1705	each .50	Loco, F-3 A, Scale, 4-Wheels Powered, Com. Kit	1015	each 38.00
Heater, Feedwater, Elesco	1804	each .60	Loco, F-3 A, T.P., 4-Wheels Powered, Com. Kit	1016	each 39.50
Hopper Car, N & W, Railcraft, Kit	5065	each 6.00	Loco, F-3 A, Dummy, Scale, Kit	1000	each 25.75
Housing, Brake, Ajax	3125H	each .10	Loco, F-3 A, Dummy, Tinplate, Kit	1002	each 25.75
Housing, Gear Cover	1734	each .20	Loco, F-3 B, Scale, 4-Wheels Powered, Com. Kit	1017	each 36.75
Ice Hatch and Platform, Left and Right	3115	each .10	Loco, F-3 B, T.P., 4-Wheels Powered, Com. Kit	1018	each 37.75
Injector	1708	each .40	Loco, F-3 B, Scale, 8-Wheels Powered, Com. Kit	1019	each 44.50
Insulation, Driver, 70"	1582	each .05	Loco, F-3 B, T.P., 8-Wheels Powered, Com. Kit	1020	each 45.50
Insulator, Fibre, Pickup Shoe	4029	each .05	Loco, F-3 B, Dummy, Scale, Kit	1001	each 23.50
Insulator, Paper, Nose, F-3 A, Bulb	209	each .05	Loco, F-3 B, Dummy, Tinplate, Kit	1003	each 23.50
Intake, Steam Line, Articulated	1821	each .35	Loco, F-3 ABA, A's 4-Wheels Powered, Scale, Complete, Kit	1021	each 96.00
Intake, Steam Jack, F-3	506	each .15	Loco, F-3 ABA, A's 4-Wheels Powered, Tinplate, Complete, Kit	1022	each 97.50
Jewel, Marker Light, Green, Set of 4	3173	set .30	Loco, Diesel 1000HP Switcher, Body Assembled and Painted, Scale, Less Power	46	each 9.95
Jewel, Marker Light, Red, Set of 4	3172	set .30	Loco, Diesel 1000HP Switcher, Body Assembled and Painted, Tinplate, Less Power	47	each 9.95
Joiners, Rail, .172	2207	doz. .20	Loco, Diesel 1000HP Switcher, Tinplate, 4-Wheels Powered, Kit	42	each 24.50
Key, Cotter, 1/16 x 1/2	C-2001	doz. .15	Loco, Diesel 1000HP Switcher, Tinplate, 8-Wheels Powered, Kit	43	each 30.95
Key, Cotter, 3/64 x 1/2	C-2002	doz. .15	Loco, Diesel 1000HP Switcher, Scale, 4-Wheels Powered, Kit	40	each 23.50
Key, Hairpin	C-2039	doz. .20	Loco, Diesel 1000HP Switcher, Scale, 8-Wheels Powered, Kit	41	each 29.95
King Pin, .350", Diesel Switcher, c.r.o.	4068	each .10	Loco, Mountain, Complete with Tender, Kit	17	each 72.50
King Pin, 1/4", Power Truck, F-3, Set of 2	1009	pair .15	Loco, Pacific, Complete with Tender, Kit	10	each 55.00
Knuckle, Side Rod, Loco Driver	1130	each .15	Loco, Ten Wheeler, Complete with Tender, Kit	1	each 42.50
Ladder, Tender, Kit	1119K	each .60	Loco, Section, Boiler, Articulated	1801	
Ladder Rung	1120	each .05	Loco Section, Boiler and Cab, Atlantic	7	each 13.50
Ladder, 6-Rung, Set of 4	3030	set .35	Loco Section, Boiler and Cab, Mountain	19	each 25.00
Ladder, 7-Rung, Set of 4	3031	set .35	Loco Section, Boiler and Cab, Pacific	12	each 17.50
Ladder, 8-Rung, Set of 4	3032	set .35	Loco Section, Boiler and Cab, Ten Wheeler	3	each 13.00
Ladder, Caboose, 5-Rung	3033	pair .25	Loco Section, Mechanism, Articulated	1837	
Ladder, Caboose, 3 1/4 x .040	3035	foot .05	Loco Section, Mechanism, Atlantic	6	each 25.50
Ladder, Tender, Side	1119	pair .25	Loco Section, Mechanism, Mountain	18	each 37.00
Lamp Socket and Bulb			Loco Section, Mechanism, Pacific	11	each 28.00
Assembly, Cab, Switcher	4084	each .30			
Lamp, 12v., min. scr. base, G 3 1/2	4018	each .15			
Lamp, 12v., min. scr. base	1136	each .30			
Lamp, 6v., bayonet base	93	each .15			
Lens, Door Headlight, Red, F-3 A	203	each .15			
Lens, Door Headlight, White, F-3 A	202	each .15			
Lens, Headlight, Large, Red, F-3 A	200	each .15			
Lens, Headlight, Large, White, F-3 A	201	each .15			
Lens, Headlight, Lucite	4019	pair .30			
Lever, Holding Switch	4085	each .50			
Light, Marker, with Bracket, set	1607	set .30			
Light, Marker, Caboose	3051	pair .30			
Light, Marker, Green, F-3 A	208	pair .10			
Light, Marker, Red, F-3 A	207	pair .10			
Light, Marker, White, F-3 A	205	pair .10			
Light, Marker, 3 Lens	1606	pair .15			

# ALPHABETICAL PARTS AND PRICE LIST (Continued)

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Loco Section, Mechanism,			Power Trans. Kit, Auxiliary,		
Ten Wheeler	2	each \$25.00	Scale, F-3	1426	each \$ 8.00
Lug, Soldering, #5	C-2022	pair .05	Power Trans. Kit, Auxiliary,		
Lug, Terminal, #4	C-2024	pair .05	T.P., F-3	1428	each 8.00
Motor, AC/DC, 5/8" Stack, SS,			Power Trans. Kit, Auxiliary,		
#101 General	1402	each 6.25	Scale, DS	1441	each 8.00
Motor, AC/DC, 5/8" Stack, DS,			Power Trans. Kit, Auxiliary,		
#101-D General	1403	each 6.25	T.P., DS	1443	each 8.00
Motor, AC/DC, 1" Stack, DS,			Power Transmission Kit,		
#201-D General	1407	each 6.75	Scale, F-3	1425	each 13.75
Motor, AC/DC, 1" Stack, SS,			Power Transmission Kit,		
#201 General	1406	each 6.75	Tinplate, F-3	1427	each 14.75
Motor, DC, 5/8" Stack, DS,			Power Transmission Kit,		
#100-D General	1401	each 6.25	Scale, D. Switcher	1440	each 13.75
Motor, DC, 5/8" Stack, SS,			Power Transmission Kit, T.P.,		
#100 General	1400	each 6.25	Diesel Switcher	1442	each 14.75
Motor, DC, 1" Stack, DS,			Power Truck, Sub-Assembly,		
#200-D General	1405	each 6.75	Small End, Scale	4062	each 3.75
Motor, DC, 1" Stack, SS,			Power Truck, Sub-Assembly,		
#200 General	1404	each 6.75	Small End, T.P.	4082	each 3.75
Mounting Block, Bolster	3049	pair .15	Power Truck, Sub-Assembly,		
Mounting Plate, Bulb, F-3 A	210	each .15	Less Wheels	4054	each 3.50
Mounting Ring, Nose Uncoupling			Power Truck, Sub-Assembly,		
Assembly, F-3	301	each .05	Spur Gear End, Scale	4056	each 4.50
Mounting Plate, Pick-up Shoe	4025	each .10	Power Truck, Sub-Assembly,		
Muffler, Pops	1127	each .30	Spur Gear End, T.P.	4081	each 4.50
Nose and Side, Left, F-3 A	304	each 7.75	Pump, C.F. 1 Elesco	1806	
Nose and Side, Right, F-3 A	305	each 7.75	Pump, Cold Water	1707	each .50
Number Plate, 45°, Right			Pump, Hot Water, Worthington	1706	each .50
and Left	204	pair .50	Quad Hopper Car, KCS, Railcraft,		
Nut, Driver Axle	1278	each .07	Kit	5063	each 6.25
Nuts, 0-80 Hex, Brass	C-1110	doz. .30	Radius Rod	1088	each .15
Nuts, 2-56 Hex, Brass	C-1261	doz. .25	Rail, Brass, .172 (.06 per foot)	2170	100 ft. 5.50
Nuts, 4-40 Hex	C-1400	doz. .20	Reefer Car, 40 Foot, A.R.T.,		
Nuts, 5-40 Hex	C-1510	doz. .25	Athearn, Kit	5073	each 5.75
Nuts, Shoulder, #3-48	4020	each .05	Reefer Car, 40 Foot, A.R.T.,		
Pick-up Shoe Assembly	4022	each .35	W&MP Herald, Athearn, Kit	5074	each 5.75
Pilot, Steam Type	1079	each 1.30	Reefer Car, 40 Foot, North. Pac.,		
Pilot, Scale, Diesel Switcher	4006	pair 1.50	Athearn, Kit	5070	each 5.75
Pilot, Tinplate, Diesel Switcher	4005	pair 1.25	Reefer Car, 40 Foot, PFE		
Pin, End Sill	3050	pair .10	Aluminum, Athearn, Kit	5071	each 6.25
Pin, Escutcheon	C-2018	oz. .75	Reefer Car, 40 Foot, PFE Orange,		
Pin, Escutcheon, #18 x 3/4	C-2019	oz. .75	Athearn, Kit	5072	each 5.75
Pin, Escutcheon, #20 x 3/8	C-2011	oz. .75	Reefer Kit, Basic (Less trucks,		
Pin, Escutcheon, #24	3150	oz. 1.00	couplers, sides)	3500	each 2.45
Pinion Gear, 14 Tooth, 36 Pitch	1737	each .75	Reefer Car, Steel, MDT,		
Pipe, Boiler Connector Elbow,			Modelmaster, Complete, Kit	3614	each 5.75
Elesco, Art.	1838		Reefer Car, Steel, PFE,		
Pipe, Exhaust, Rear Cylinder	1816		Athearn, Complete, Kit	3615	each 5.75
Piston Set, Cross Head	1111A	set .75	Reefer Car, Wood,		
Plate, Back, Cab	1809	each	Less trucks, Kit—		
Plate, Bearing, Atlantic	1133A	each .95	B R E X Burlington		
Plate, Bearing, Mountain	1714	each 1.15	Refrigerator	3567	each 3.40
Plate, Bearing, Ten Wheeler	1133	each 1.00	D I C X "Dry-Ice"		
Plate, Floor, Brass, Diesel			Refrigerator	3563	each 3.40
Switcher, T.P.	4076	pair .50	F G E X Fruit Grower's Express	3566	each 3.40
Plate, Floor, Fibre, Diesel			L R X Lackawanna		
Switcher, Scale	4067	pair .40	Refrigerator	3562	each 3.40
Plate, Floor, Brass, F-3, Tinplate	1014	each .25	M R X Morrell's Pride	3565	each 3.40
Plate, Floor, Fibre, F-3, Scale	1008	each .25	P F E Pacific Fruit Express	3560	each 3.40
Plate, Number, Boiler,			R B R X Rath's Blackhawk Ham	3564	each 3.50
Ten Wheeler	1528	each .15	W F E X Western Fruit		
Plates, Coupling, Drop Center			Express	3561	each 3.40
Flat Car	2126	pair .15	Release Rod, Coupler, 5" —		
Platform, Brake	3012A	pair .15	.032 wire	1588	each .05
Platform, Headlight, Atlantic	2120	each .10	Retainer, King Pin Spring, F-3	1007	each .05
Power Reverse	2121	each .50	Retaining Ring, Lamp Assembly,		
			F-3 A	220	each .05

# ALPHABETICAL PARTS AND PRICE LIST (Continued)

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Retainer, Snap Ring, Bearing	1688	each \$ .20	Roller Pick-up Assembly, Spring,		
Rib, Roof	3155	doz. .35	Power Truck, F-3	1461	each \$ .75
Rings, Roof Lift, F-3, Set of 4	513	set .10	Roller Pick-up Assembly, Spring,		
Rivet, Link Pivot	1159	each .08	Trailing Truck, F-3	1462	each .75
Rivet, Tie, Main Frame	1118	each .15	Roof, Caboose, Wood	3160	each .65
Rivets, Valve Gear	1084	doz. .75	Roof, Cupola, Caboose, Wood	3164	each .35
Rivet, Valve Gear, Long	1158	each .07	Roof, Metal, Box Car	3045	each .50
Roadbed, Truscale, Bridge Stock	5016	foot .50	Roof Unit, F-3 A	306	each 6.50
Roadbed, Truscale, Circles			Roof Unit, F-3 B	901	each 6.50
36" Radius	5002	each 5.65	Roof Walk, Aluminum,		
Roadbed, Truscale, Circles			Blaw-Knox	3037	each .15
38" Radius	5003	each 5.98	Roof, Wood, Steel Box Car	3054	each .35
Roadbed, Truscale, Circles			Roof, Wood, Reefer	3510	each .25
40" Radius	5004	each 6.28	Roof, Walk, End	3038	pair .15
Roadbed, Truscale, Circles			Roof, Walk, Plastic	3100	each .07
42" Radius	5005	each 6.60	Sand Dome	1080	each .65
Roadbed, Truscale, Circles			Screw, Bolster	1390	each .05
44" Radius	5006	each 6.90	Screw, Bolster, Truck, Tender	1759	each .05
Roadbed, Truscale, Circles			Screw, Cross Head	1058	each .05
46" Radius	5007	each 7.23	Screw, Draw Bar	1107	each .10
Roadbed, Truscale, Circles			Screw, Drive, #00 x 3/16",		
48" Radius	5008	each 7.55	Screw Type "U"	C-1901	doz. .15
Roadbed, Truscale, Circles			Screw, Drive, #0 x 3/16",		
52" Radius	5009	each 8.18	Screw Type "U"	C-1902	doz. .15
Roadbed, Truscale, Circles			Screw, Equalizer, Bar,		
56" Radius	5010	each 8.80	Passenger Truck	1522	each .05
Roadbed, Truscale, Circles			Screw, Crank Pin	1057	each .10
60" Radius	5011	each 9.43	Screw, Pilot, Truck Side	1161	each .05
Roadbed, Truscale, Circles			Screw, Pivot, Tender	1661	each .05
64" Radius	5012	each 10.05	Screw, Pivot, Truck, Freight,		
Roadbed, Truscale, Circles			Long Screw, Long Shoulder	2124	each .05
68" Radius	5013	each 10.68	Screw, Self Tapping,		
Roadbed, Truscale, Circles			#4 x 1/4 Fl. Hd.	C-2026	doz. .25
72" Radius	5014	each 11.33	Screw, Side Rod Knuckle	1215	each .10
Roadbed, Truscale, Crossovers	5024	each 1.30	Screw, Smoke Box Front	1229	each .15
Roadbed, Truscale, Crossover			Screw, Truck, Pilot	1529	each .10
Blocks, #8, R.H.	5029	each 1.40	Screw, Wood, #2 x 3/8	C-1401	doz. .20
Roadbed, Truscale, Crossover			Screw, Wood, #2 x 3/8		
Blocks, #8, L.H.	5030	each 1.40	Round Head	C-1802	doz. .15
Roadbed, Truscale, Crossover			Screw, Wood, #2 x 3/4		
Blocks, Mounted, #6, R.H.	5027	each 12.50	Flat Head	C-1801	doz. .15
Roadbed, Truscale, Crossover			Screw, Wood, #6 x 1/2,		
Blocks, Mounted, #6, L.H.	5028	each 12.50	Round Head	C-1805	doz. .15
Roadbed, Truscale, Straight,			Screw, #0-80 x 1/8	C-1051	doz. .50
3' Length	5000	foot .23	Screw, #0-80 x 5/16,		
Roadbed, Truscale, Straight,			Round Head, Brass	C-1055	doz. .55
2' Length	5001	foot .21	Screw, 2-56 x 1/8, Round Head,		
Roadbed, Truscale, Superflex	5015	foot .30	Brass	C-1250	doz. .25
Roadbed, Truscale, Switch Block,			Screw, 2-56 x 3/16, Bind Head,		
#4, R.H.	5018	each 1.15	Steel	C-1254	doz. .25
Roadbed, Truscale, Switch Block,			Screw, 2-56 x 3/16,		
#4, L.H.	5019	each 1.15	Round Head, Brass	C-1252	doz. .25
Roadbed, Truscale, Switch Block,			Screw, 2-56 x 1/4,		
#6, R.H.	5020	each 1.20	Round Head, Brass	C-1259	doz. .25
Roadbed, Truscale, Switch Block,			Screw, 2-56 x 1/4, Filister Head	C-1253	doz. .25
#6, L.H.	5021	each 1.20	Screw, 2-56 x 5/16,		
Roadbed, Truscale, Switch Block,			Filister Head, Brass	C-1255	doz. .25
#8, R.H.	5022	each 1.25	Screw, 2-56 x 5/16,		
Roadbed, Truscale, Switch Block,			Flat Head, Brass	C-1260	doz. .25
#8, L.H.	5023	each 1.25	Screw, 2-56 x 5/16,		
Roadbed, Truscale, Switch Block,			Round Head, Brass	C-1264	doz. .25
Mounted, #6, R.H.	5025	each 5.75	Screw, 2-56 x 3/8,		
Roadbed, Truscale, Switch Block,			Filister Head, Brass	C-1256	doz. .25
Mounted, #6, L.H.	5026	each 5.75	Screw, 2-56 x 1/2,		
Rod, Alignment, Gear Box	1743	each .03	Filister Head,	C-1267	doz. .25
Rod, Eccentric	1090	each .15	Screw, 2-56 x 1/2,		
Rod, Main	1131	each .25	Round Head, Brass	C-1258	doz. .25
Rod, Drive, Articulated	1828		Screw, 2-56 x 3/8,		
Rod, Piston	1383	each .10	Round Head, Steel	C-1257	doz. .25
Rod, Radius, Long, Articulated	1823				

# ALPHABETICAL PARTS AND PRICE LIST (Continued)

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Screw, 3-48 x 5/32, Filister Head, Steel	C-1301	doz. \$ .25	Shaft, Worm, Short	4046	each \$ .35
Screw, 3-48 x 3/16, Filister Head, Steel	C-1302	doz. .25	Shaft, Worm, Long	4047	each .50
Screw, 3-48 x 1/4, Filister Head, Steel	C-1303	doz. .25	Shield, Pilot Beam, Articulated	1818	
Screw, 3-48 x 3/8, Round Head, Steel	C-1305	doz. .25	Shoe, Inside 3rd Rail Pick-up, Thomas	5053	each .50
Screw, 4-40 x 3/16, Bind Head, Steel	C-1402	doz. .25	Side, Cupola, Caboose, Scribed	3162	pair .75
Screw, 4-40 x 1/4, Bind Head, Steel	C-1403	doz. .25	Side, Cupola, Caboose, Metal	3165	each .45
Screw, 4-40 x 1/4, Fil. Hd., Steel, Parkerized	C-1407	doz. .25	Side Frame, Diesel Switcher, Set of 4	4007	set 1.50
Screw, 4-40 x 1/4, Flat Head, Steel	C-1456	doz. .25	Side Frame, Main, Articulated	1817	
Screw, 4-40 x 5/16, Filister Head, Steel	C-1404	doz. .25	Side Frame, Pilot Truck, Atlantic	1143A	pair .60
Screw, 4-40 x 3/8, Filister Head, Steel	C-1405	doz. .25	Side Frame, Pilot Truck, Mountain	1713	pair .75
Screw, 4-40 x 3/8, Fl. Hd., Steel, Parkerized	C-1406	doz. .25	Side Frame, Main, Brass, Atlantic	1108A	pair 2.25
Screw, 5-40 x 1/8, Bind Head, Brass	C-1500	doz. .25	Side Frame, Main, Pacific and Ten Wheeler	1108	pair 1.95
Screw, 5-40 x 1/8, Round Head, Steel	C-1521	doz. .25	Side Frame, Trailing Truck, Articulated	1834	
Screw, 5-40 x 3/16, Round Head, Brass	C-1503	doz. .25	Side Frame, Truck, Andrews, Set of 4	1533	set .75
Screw, 5-40 x 1/4, Filister Head, Steel	C-1511	doz. .25	Side Frame, Truck, Bettendorf, Set of 4	1534	set .75
Screw, 5-40 x 1/4, Round Head, Brass	C-1501	doz. .25	Side Frame, Truck, Cmnwlth (6 wheel), Set of 4	1756	set 2.50
Screw, 5-40 x 5/16, Filister Head, Brass	C-1517	doz. .25	Side Frame, Truck, Passenger, Set of 4	1519	set 1.95
Screw, 5-40 x 5/16, Filister Head, Steel	C-1506	doz. .25	Side Frame, Truck, Pilot, Articulated	1827	
Screw, 5-40 x 3/8, Round Head, Brass	C-1502	doz. .25	Sides, Reefer, B R X, Wood	35675	pair 1.00
Screw, 5-40 x 7/16, Round Head	C-1505	doz. .25	Sides, Reefer, D I C X, Wood	35635	pair 1.00
Screw, 5-40 x 1/2, Flat Head, Brass	C-1509	doz. .25	Sides, Reefer, F G E X, Wood	35665	pair 1.00
Screw, 5-40 x 5/8, Round Head	C-1504	doz. .25	Sides, Reefer, L R X, Wood	35625	pair 1.00
Screw, 5-40 x 3/4, Filister Head, Brass	C-1513	doz. .25	Sides, Reefer, M R X, Wood	35655	pair 1.00
Screw, 5-40 x 7/8, Round Head, Brass	C-1507	doz. .25	Sides, Reefer, P F E, Wood	35605	pair 1.00
Screw, 5-40 x 1", Round Head, Brass	C-1508	doz. .25	Sides, Reefer, R P R X, Wood	35645	pair 1.00
Screw, 5-40 x 1 1/4", Flat Head, Steel	C-1515	doz. .25	Sides, Reefer, W F E X, Wood	35615	pair 1.00
Screw, 6-32 x 3/16, Round Head, Steel	C-1601	doz. .25	Sides, Steel Box, Baltimore & Ohio	36225	pair 1.00
Screw, 6-32 x 5/16, Filister Head, Brass	C-1605	doz. .25	Sides, Steel Box, B & O Sentinel	36325	pair 1.40
Screw, 6-32 x 7/16, Round Head, Brass	C-1602-A	doz. .25	Sides, Steel Box, Burlington	36255	pair 1.00
Screw, 6-32 x 1/2, Filister Head, Brass	C-1610	doz. .25	Sides, Steel Box, Canadian Pacific	36315	pair 1.00
Screw, 6-32 x 1/2, Round Head, Steel, Cad. pltd.	C-1602	doz. .25	Sides, Steel Box, Chesapeake & Ohio	36285	pair 1.00
Screw, 6-32 x 1", Round Head, Steel, Machine	C-1615	doz. .25	Sides, Steel Box, Chesapeake & Ohio — New Style	36345	pair 1.00
Seat, Spring, Main Frame	1717	each .10	Sides, Steel Box, GMC Special	36355	pair 1.00
Shaft, Flexible, F-3, complete	4055	each 1.25	Sides, Steel Box, Gulf, Mobile & Ohio	36235	pair 1.00
Shaft, Flexible, Switcher, Complete	4071	each 1.00	Sides, Steel Box, Lackawanna	36275	pair 1.00
Shaft, Worm, Atlantic-Pacific- Ten Wheeler	1638	each .25	Sides, Steel Box, N.Y., N.H. & H.	36305	pair 1.00
			Sides, Steel Box, Nickel Plate	36295	pair 1.00
			Sides, Steel Box, Pacemaker	36205	pair 1.25
			Sides, Steel Box, Pennsylvania	36245	pair 1.00
			Sides, Steel Box, Roberval Saguenay	36335	pair 1.15
			Sides, Steel Box, Seaboard	36265	pair 1.00
			Sides, Steel Box, Union Pacific	36215	pair 1.00
			Side Rod, Main	1109	each .30
			Side Rod, Main, Atlantic	1109A	each .30
			Side Rod, Main, Pacific and Ten Wheeler	1109P	each .30
			Side, Tender, Right, Mountain	1750R	each 2.75
			Side, Tender, Left, Mountain	1750L	each 2.75
			Side, Tender, Right, Pacific	2135R	each 2.25
			Side, Tender, Left, Pacific	2135L	each 2.25
			Side, Tender, Atlantic and Ten Wheeler	1154A	each 2.50
			Side Unit, Left, F-3 B	902	each 7.50

# ALPHABETICAL PARTS AND PRICE LIST (Continued)

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Side Unit, Right, F-3 B	903	each \$ 7.50	Tank Car, Three Dome,		
Sills, End	3026	pair .35	Thomas, Kit	5051	each \$ 6.75
Slide, Door, Channel Type,			Tender, Atlantic or Ten Wheeler,		
Set of 4	3046	set .30	Kit	4	each 7.75
Slide, Door, Double, Set of 4	3005	set .40	Tender, Mountain, Kit	20	each 17.50
Slide, Door, Single, Set of 4	3004	set .30	Tender, Pacific, Kit	13	each 10.95
Smoke Box Front, Atlantic and			Terminal, Copper	C-2017	each .05
Ten Wheeler	1092	each 1.25	Train Set, Diesel Switcher,		
Smoke Box Front, Articulated	1803		Beginners #1, Kit	2200	each 49.50
Smoke Box Front, Mountain	1709	each 2.50	Train Set, F-3, Beginners #2, Kit	2210	each 59.50
Smoke Box Front, Pacific	2129	each 2.25	Train Set, Ten Wheeler,		
Smoke Stack	1137	each .15	Beginners #3, Kit	2211	each 65.00
Smoke Stack Base	1123	each .10	Truck Assembly, Trailing, Pacific	2118	each 2.00
Smoke Stack, Short	1693	each .15	Truck, Freight, Scale,		
Socket, Bearing, Worm Drive	1573	each .25	Andrews, Kit	3800	each 1.10
Socket, Lamp, Cab	4017	each .25	Truck, Freight, Scale,		
Socket, Lamp, Nose	4016	each .20	Bettendorf, Kit	3802	each 1.10
Spacer, Brass or Bronze	4040	each .10	Truck, Freight, Scale, Double-		
Spacer, Motor, Atlantic and			Insulated, Andrews, Kit	3804	each 1.25
Ten Wheeler	1595	pair .15	Truck, Freight, Scale, Double-		
Spacer, Worm Shaft, Ball Bearing	1745	each .65	Insulated, Bettendorf, Kit	3805	each 1.25
Spikes, Square, Serrated and			Truck, Freight, Tinplate,		
Oxidized, 1 ounce pkg	2206	oz. .50	Bettendorf, Kit	3803	each 1.25
Spring, Centering, Pilot Truck	1569	each .05	Truck, Passenger, 4-wheel, Kit	3910	each 2.75
Spring, Coupler Centering	4037	each .10	Truck, Passenger, 4-wheel,		
Spring, Equalizer, Mountain	1716	each .15	Streamline, Kit	3900	each 2.00
Spring, Pivot, Pilot Truck	1568	each .05	Truck, Passenger, 6-wheel,		
Spur Gear, 34 Tooth, 36 Pitch	1738	each .75	Scale, Kit	3809	each 2.50
Stack, Caboose, Diecast	3169	each .15	Truck, Passenger, 6-wheel,		
Stack, Exhaust, Diesel Switcher	2143	each .15	Tinplate, Kit	3810	each 2.75
Stanchions, Handrail	1128	doz. .85	Truck Assembly, Pilot, Atlantic,		
Stanchions, Handrail, 1/8"	2141	doz. .75	Pacific & Ten Wheeler	1162A	each 3.15
Stanchions, Handrail, 1/4"	1642	doz. .75	Truck Assembly, Pilot, Mountain	1770	each 3.50
Stanchions, Handrail, 3/16"	1643	doz. .85	Trucks, Trailing, Delta,		
Stanchion, Pilot Beam	1035	each .10	Left and Right	2116	pair 1.40
Steam Dome	1081	each .60	Truck, Trailing, Delta,		
Steps, Engine	1572	each .25	with Booster	1725	each 2.75
Steps, Engine, Mountain, Brass	1719	pair .90	Underframe, Caboose, Aluminum	3036	each 3.25
Steps, Freight Car, Set of 4	3022K	set .25	Underframe, Channel	3039	each .35
Steps, Tender, Set of 4	1121	set .85	Underframe, Tender, Mountain	1754	each 2.95
Stoker, Articulated	1814		Underframe, Tender, Pacific	2134	each 2.90
Strap, Housing Gear	1733	each .35	Underframe, Wood Reefer	3540	each .40
Striker Plates, Diaphragm, F-3	509	pair .25	Valve, Pop	1126	each .05
Switch Assembly, Holding	4043	each .50	Ventilator, Globe	1330	doz. .75
Switch Components, Frog			Washer, Brass, #2	C-1286	doz. .10
Assembly, #6 Switch	2123	set 1.00	Washer, Brass, #3	C-1800	doz. .15
Switch Components, Points,			Washer, Copper, #3 x 3/8 x .032	C-2027	doz. .15
#6 Switch	2122	set 1.00	Washer, Lock, #4, Internal	C-2035	pair .05
Switch, #4, Right	2098R	each 2.25	Washer, Fibre, #5, Flat	C-2023	doz. .15
Switch, #4, Left	2098L	each 2.25	Washer, Brass, #5 x .032, Flat	C-1804	doz. .15
Switch, #4, Wye	2098Y	each 2.25	Washer, #5 x 1/4 x .062	C-2028	doz. .15
Switch, #6, Right	2100	each 2.30	Washer, Brass, #5 x 3/8 x .050,		
Switch, #6, Left	2101	each 2.30	Flat	C-2029	doz. .15
Switch, #6, Wye	2100Y	each 2.50	Washer, Brass, #6	C-1806	doz. .15
Switch, #8, Right	2099R	each 2.75	Washer, Lock, #6, Split Type	C-2038	pair .05
Switch, #8, Left	2099L	each 2.75	Washer, Flat, #8 x .032		
Switch, #8, Wye	2099Y	each 2.75	(3/8" o.d.)	C-2037	doz. .15
Switch, Sequence Reverse	4014	each 1.75	Washer, Brass,		
Switch, Stubby, Right	2097R	each 1.95	5/32 x 1/4 x 1/16	C-2039	doz. .20
Switch, Stubby, Left	2097L	each 1.95	Washer, Fibre,		
Switcher, Body Casting	4001	each 6.00	9/32 x .156 x .020	C-2034	doz. .25
Switcher, Body Nose	4004	each .85	Washer, Fibre,		
Tank, Air, 7'	1609	each .35	9/32 x .156 x .032	C-2031	doz. .20
Tank, Air, 8'	1608	each .40	Washer, Fibre, 5/16 x .128	C-2021	doz. .15
Tank, Air, 12'	1702	each .50	Washer, Brass, 3/8" o.d. x		
Tank Car, Single Dome,			3/16" i.d.	C-2025	doz. .15
Thomas, Kit	5050	each 5.95	Washer, Insulation, Pilot Truck	1152	each .05
Tank Car, Six Dome,			Water Cover, Tender	1116	each .30
Thomas, Kit	5052	each 7.75	Weight, Lead, Diesel Switcher	4069	each .85

# ALPHABETICAL PARTS AND PRICE LIST (Continued)

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Screw, 3-48 x 5/32, Filister Head, Steel	C-1301	doz. \$ .25	Shaft, Worm, Short	4046	each \$ .35
Screw, 3-48 x 3/16, Filister Head, Steel	C-1302	doz. .25	Shaft, Worm, Long	4047	each .50
Screw, 3-48 x 1/4, Filister Head, Steel	C-1303	doz. .25	Shield, Pilot Beam, Articulated	1818	
Screw, 3-48 x 3/8, Round Head, Steel	C-1305	doz. .25	Shoe, Inside 3rd Rail Pick-up, Thomas	5053	each .50
Screw, 4-40 x 3/16, Bind Head, Steel	C-1402	doz. .25	Side, Cupola, Caboose, Scribed	3162	pair .75
Screw, 4-40 x 1/4, Bind Head, Steel	C-1403	doz. .25	Side, Cupola, Caboose, Metal	3165	each .45
Screw, 4-40 x 1/4, Fil. Hd., Steel, Parkerized	C-1407	doz. .25	Side Frame, Diesel Switcher, Set of 4	4007	set 1.50
Screw, 4-40 x 1/4, Flat Head, Steel	C-1456	doz. .25	Side Frame, Main, Articulated	1817	
Screw, 4-40 x 5/16, Filister Head, Steel	C-1404	doz. .25	Side Frame, Pilot Truck, Atlantic	1143A	pair .60
Screw, 4-40 x 3/8, Filister Head, Steel	C-1405	doz. .25	Side Frame, Pilot Truck, Mountain	1713	pair .75
Screw, 4-40 x 3/8, Fl. Hd., Steel, Parkerized	C-1406	doz. .25	Side Frame, Main, Brass, Atlantic	1108A	pair 2.25
Screw, 5-40 x 1/8, Bind Head, Brass	C-1500	doz. .25	Side Frame, Main, Pacific and Ten Wheeler	1108	pair 1.95
Screw, 5-40 x 1/8, Round Head, Steel	C-1521	doz. .25	Side Frame, Trailing Truck, Articulated	1834	
Screw, 5-40 x 3/16, Round Head, Brass	C-1503	doz. .25	Side Frame, Truck, Andrews, Set of 4	1533	set .75
Screw, 5-40 x 1/4, Filister Head, Steel	C-1511	doz. .25	Side Frame, Truck, Bettendorf, Set of 4	1534	set .75
Screw, 5-40 x 1/4, Round Head, Brass	C-1501	doz. .25	Side Frame, Truck, Cmnwlth (6 wheel), Set of 4	1756	set 2.50
Screw, 5-40 x 5/16, Filister Head, Brass	C-1517	doz. .25	Side Frame, Truck, Passenger, Set of 4	1519	set 1.95
Screw, 5-40 x 5/16, Filister Head, Steel	C-1506	doz. .25	Side Frame, Truck, Pilot, Articulated	1827	
Screw, 5-40 x 3/8, Round Head, Brass	C-1502	doz. .25	Sides, Reefer, B R X, Wood	35675	pair 1.00
Screw, 5-40 x 7/16, Round Head	C-1505	doz. .25	Sides, Reefer, D I C X, Wood	35635	pair 1.00
Screw, 5-40 x 1/2, Flat Head, Brass	C-1509	doz. .25	Sides, Reefer, F G E X, Wood	35665	pair 1.00
Screw, 5-40 x 3/8, Round Head	C-1504	doz. .25	Sides, Reefer, L R X, Wood	35625	pair 1.00
Screw, 5-40 x 3/4, Filister Head, Brass	C-1513	doz. .25	Sides, Reefer, M R X, Wood	35655	pair 1.00
Screw, 5-40 x 7/8, Round Head, Brass	C-1507	doz. .25	Sides, Reefer, P F E, Wood	35605	pair 1.00
Screw, 5-40 x 1", Round Head, Brass	C-1508	doz. .25	Sides, Reefer, R P R X, Wood	35645	pair 1.00
Screw, 5-40 x 1 1/4", Flat Head, Steel	C-1515	doz. .25	Sides, Reefer, W F E X, Wood	35615	pair 1.00
Screw, 6-32 x 3/16, Round Head, Steel	C-1601	doz. .25	Sides, Steel Box, Baltimore & Ohio	36225	pair 1.00
Screw, 6-32 x 5/16, Filister Head, Brass	C-1605	doz. .25	Sides, Steel Box, B & O Sentinel	36325	pair 1.40
Screw, 6-32 x 7/16, Round Head, Brass	C-1602-A	doz. .25	Sides, Steel Box, Burlington	36255	pair 1.00
Screw, 6-32 x 1/2, Filister Head, Brass	C-1610	doz. .25	Sides, Steel Box, Canadian Pacific	36315	pair 1.00
Screw, 6-32 x 1/2, Round Head, Steel, Cad. pltd.	C-1602	doz. .25	Sides, Steel Box, Chesapeake & Ohio	36285	pair 1.00
Screw, 6-32 x 1", Round Head, Steel, Machine	C-1615	doz. .25	Sides, Steel Box, Chesapeake & Ohio — New Style	36345	pair 1.00
Seat, Spring, Main Frame	1717	each .10	Sides, Steel Box, GMC Special	36355	pair 1.00
Shaft, Flexible, F-3, complete	4055	each 1.25	Sides, Steel Box, Gulf, Mobile & Ohio	36235	pair 1.00
Shaft, Flexible, Switcher, Complete	4071	each 1.00	Sides, Steel Box, Lackawanna	36275	pair 1.00
Shaft, Worm, Atlantic-Pacific- Ten Wheeler	1638	each .25	Sides, Steel Box, N.Y., N.H. & H.	36305	pair 1.00
			Sides, Steel Box, Nickel Plate	36295	pair 1.00
			Sides, Steel Box, Pacemaker	36205	pair 1.25
			Sides, Steel Box, Pennsylvania	36245	pair 1.00
			Sides, Steel Box, Roberval Saguenay	36335	pair 1.15
			Sides, Steel Box, Seaboard	36265	pair 1.00
			Sides, Steel Box, Union Pacific	36215	pair 1.00
			Side Rod, Main	1109	each .30
			Side Rod, Main, Atlantic	1109A	each .30
			Side Rod, Main, Pacific and Ten Wheeler	1109P	each .30
			Side, Tender, Right, Mountain	1750R	each 2.75
			Side, Tender, Left, Mountain	1750L	each 2.75
			Side, Tender, Right, Pacific	2135R	each 2.25
			Side, Tender, Left, Pacific	2135L	each 2.25
			Side, Tender, Atlantic and Ten Wheeler	1154A	each 2.50
			Side Unit, Left, F-3 B	902	each 7.50



# ALPHABETICAL PARTS AND PRICE LIST (Continued)

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Side Unit, Right, F-3 B	903	each \$ 7.50	Tank Car, Three Dome,		
Sills, End	3026	pair .35	Thomas, Kit	5051	each \$ 6.75
Slide, Door, Channel Type,			Tender, Atlantic or Ten Wheeler,		
Set of 4	3046	set .30	Kit	4	each 7.75
Slide, Door, Double, Set of 4	3005	set .40	Tender, Mountain, Kit	20	each 17.50
Slide, Door, Single, Set of 4	3004	set .30	Tender, Pacific, Kit	13	each 10.95
Smoke Box Front, Atlantic and			Terminal, Copper	C-2017	each .05
Ten Wheeler	1092	each 1.25	Train Set, Diesel Switcher,		
Smoke Box Front, Articulated	1803		Beginners #1, Kit	2200	each 49.50
Smoke Box Front, Mountain	1709	each 2.50	Train Set, F-3, Beginners #2, Kit	2210	each 59.50
Smoke Box Front, Pacific	2129	each 2.25	Train Set, Ten Wheeler,		
Smoke Stack	1137	each .15	Beginners #3, Kit	2211	each 65.00
Smoke Stack Base	1123	each .10	Truck Assembly, Trailing, Pacific	2118	each 2.00
Smoke Stack, Short	1693	each .15	Truck, Freight, Scale,		
Socket, Bearing, Worm Drive	1573	each .25	Andrews, Kit	3800	each 1.10
Socket, Lamp, Cab	4017	each .25	Truck, Freight, Scale,		
Socket, Lamp, Nose	4016	each .20	Bettendorf, Kit	3802	each 1.10
Spacer, Brass or Bronze	4040	each .10	Truck, Freight, Scale, Double-		
Spacer, Motor, Atlantic and			Insulated, Andrews, Kit	3804	each 1.25
Ten Wheeler	1595	pair .15	Truck, Freight, Scale, Double-		
Spacer, Worm Shaft, Ball Bearing	1745	each .65	Insulated, Bettendorf, Kit	3805	each 1.25
Spikes, Square, Serrated and			Truck, Freight, Tinsplate,		
Oxidized, 1 ounce pkg.	2206	oz. .50	Bettendorf, Kit	3803	each 1.25
Spring, Centering, Pilot Truck	1569	each .05	Truck, Passenger, 4-wheel, Kit	3910	each 2.75
Spring, Coupler Centering	4037	each .10	Truck, Passenger, 4-wheel,		
Spring, Equalizer, Mountain	1716	each .15	Streamline, Kit	3900	each 2.00
Spring, Pivot, Pilot Truck	1568	each .05	Truck, Passenger, 6-wheel,		
Spur Gear, 34 Tooth, 36 Pitch	1738	each .75	Scale, Kit	3809	each 2.50
Stack, Caboose, Diecast	3169	each .15	Truck, Passenger, 6-wheel,		
Stack, Exhaust, Diesel Switcher	2143	each .15	Tinsplate, Kit	3810	each 2.75
Stanchions, Handrail	1128	doz. .85	Truck Assembly, Pilot, Atlantic,		
Stanchions, Handrail, 1/8"	2141	doz. .75	Pacific & Ten Wheeler	1162A	each 3.15
Stanchions, Handrail, 1/4"	1642	doz. .75	Truck Assembly, Pilot, Mountain	1770	each 3.50
Stanchions, Handrail, 3/16"	1643	doz. .85	Trucks, Trailing, Delta,		
Stanchion, Pilot Beam	1035	each .10	Left and Right	2116	pair 1.40
Steam Dome	1081	each .60	Truck, Trailing, Delta,		
Steps, Engine	1572	each .25	with Booster	1725	each 2.75
Steps, Engine, Mountain, Brass	1719	pair .90	Underframe, Caboose, Aluminum	3036	each 3.25
Steps, Freight Car, Set of 4	3022K	set .25	Underframe, Channel	3039	each .35
Steps, Tender, Set of 4	1121	set .85	Underframe, Tender, Mountain	1754	each 2.95
Stoker, Articulated	1814		Underframe, Tender, Pacific	2134	each 2.90
Strap, Housing Gear	1733	each .35	Underframe, Wood Reefer	3540	each .40
Striker Plates, Diaphragm, F-3	509	pair .25	Valve, Pop	1126	each .05
Switch Assembly, Holding	4043	each .50	Ventilator, Globe	1330	doz. .75
Switch Components, Frog			Washer, Brass, #2	C-1286	doz. .10
Assembly, #6 Switch	2123	set 1.00	Washer, Brass, #3	C-1800	doz. .15
Switch Components, Points,			Washer, Copper, #3 x 3/8 x .032	C-2027	doz. .15
#6 Switch	2122	set 1.00	Washer, Lock, #4, Internal	C-2035	pair .05
Switch, #4, Right	2098R	each 2.25	Washer, Fibre, #5, Flat	C-2023	doz. .15
Switch, #4, Left	2098L	each 2.25	Washer, Brass, #5 x .032, Flat	C-1804	doz. .15
Switch, #4, Wye	2098Y	each 2.25	Washer, #5 x 1/4 x .062	C-2028	doz. .15
Switch, #6, Right	2100	each 2.30	Washer, Brass, #5 x 3/8 x .050,		
Switch, #6, Left	2101	each 2.30	Flat	C-2029	doz. .15
Switch, #6, Wye	2100Y	each 2.50	Washer, Brass, #6	C-1806	doz. .15
Switch, #8, Right	2099R	each 2.75	Washer, Lock, #6, Split Type	C-2038	pair .05
Switch, #8, Left	2099L	each 2.75	Washer, Flat, #8 x .032		
Switch, #8, Wye	2099Y	each 2.75	(3/8" o.d.)	C-2037	doz. .15
Switch, Sequence Reverse	4014	each 1.75	Washer, Brass,		
Switch, Stubby, Right	2097R	each 1.95	5/32 x 1/4 x 1/16	C-2039	doz. .20
Switch, Stubby, Left	2097L	each 1.95	Washer, Fibre,		
Switcher, Body Casting	4001	each 6.00	9/32 x .156 x .020	C-2034	doz. .25
Switcher, Body Nose	4004	each .85	Washer, Fibre,		
Tank, Air, 7'	1609	each .35	9/32 x .156 x .032	C-2031	doz. .20
Tank, Air, 8'	1608	each .40	Washer, Fibre, 5/16 x .128	C-2021	doz. .15
Tank, Air, 12'	1702	each .50	Washer, Brass, 3/8" o.d. x		
Tank Car, Single Dome,			3/16" i.d.	C-2025	doz. .15
Thomas, Kit	5050	each 5.95	Washer, Insulation, Pilot Truck	1152	each .05
Tank Car, Six Dome,			Water Cover, Tender	1116	each .30
Thomas, Kit	5052	each 7.75	Weight, Lead, Diesel Switcher	4069	each .85

# GMC BEGINNER'S KIT



An excellent kit for beginners and old-timers alike. Here's an opportunity to add greatly to your layout and equipment at a price considerably less than what it would cost if each item were to be purchased separately.

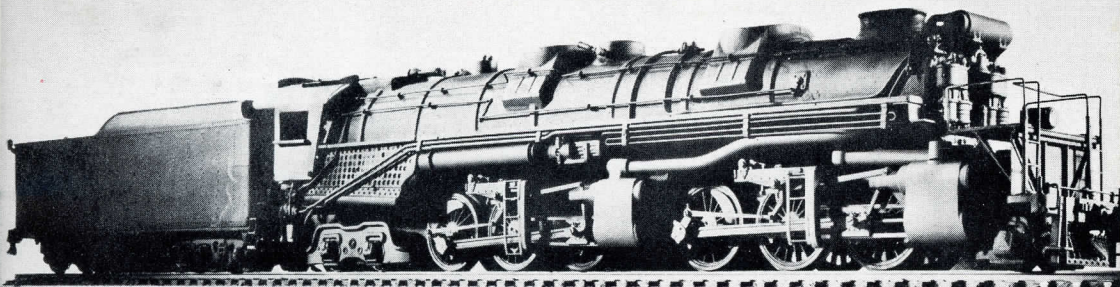
The kit contains your choice of the three locomotives described at the right, plus a 40" steel box car with sides finished by Photo Color Process; a wood reefer, also with Photo Color sides; drop center flat car and GMC Caboose, all in kit form. Tru-Scale Roadbed (enough for 25' of oval track); pre-cut brass rail; spikes; rail joiners — everything for a scale layout except transformer. Specify DC or AC-DC in your order.

## A CHOICE OF THREE WONDERFUL TRAIN SETS

**DIESEL SWITCHER SET.** The EMC 1000 HP Diesel Switcher, 4-wheels powered, described fully on Page 23. All 8 wheels can be powered with purchase of Auxiliary Transmission Unit shown on Page 27. An exact replica of the prototype. Kit comes with body assembled. Merely install motor and trucks. With items shown on left. Catalog #2200 .....\$49.50

**F-3 A UNIT SET.** The famous Atwater F-3 "A" Road Diesel that pulls the long strings of freights. Later on you can add dummy or powered "B" Units shown on pages 24-25. With items shown on left. Catalog #2210 .....\$59.50

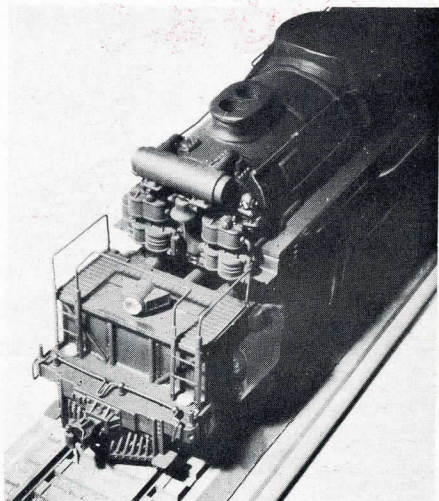
**B & O TEN WHEELER SET.** For the lover of steam type locomotives. See page 18 for complete description of the Ten Wheeler. Tender included. With items shown on left. Catalog #2211 .....\$65.00



# GMC 2-6-6-4 ARTICULATED

The largest and newest locomotive in the GMC line. No pains have been spared to bring to the model railroader the finest, most carefully engineered kit extant. Most of drilling already completed — accessories drilled and tapped. Assembled locomotive operates on minimum radius curves of 44"; with outside journal of pilot truck removed, curves of 36" can be negotiated with normal boiler overhang. Features popular GMC Free-Running gear box for powerful, quiet operation. Overall length (locomotive and tender) 29½"; locomotive length 19"; height 3¾"; width 3"; weight 11¼ lbs.; draw bar pull 42.5 ounces; average speed with maximum load (12v) 75 miles per hour.

Kit contains super-detailed boiler cast in brass with many accessories included in casting; pre-formed cab; gear box, main frames, 70" cadmium-plated drivers, cast smoke box front and accessories; brass articulated steam pipes; pilot truck kit; 4-wheel trailing truck; rods; crossheads; knuckles; #200 series motor, (AC-DC or DC — specify choice) and motor drive accessories; valve gear kits, cylinders, smoke deflector, window sills, air tanks, firebox backhead with detail cast on; stoker detail; horns; compressors; generator; pop valve; muffler; marker lights, etc. Complete tender kit (Illustration #1 on page 22). Not designed for tinsplate operation.



Available on GMC Time Payment Plan. \$50.00 down and \$27.50 for three months. See page 46 for full particulars on Time Payments.

**Complete kit with tender**

**Catalog #1800 .....\$125.00**

## GENERAL MODELS CORPORATION

DEPT. 9-50

P.O. BOX 66

WHEATON, ILLINOIS

Date.....

Gentlemen:

Check

deposit

Enclosed is  Money Order in the amount of \$.....as my  payment in full

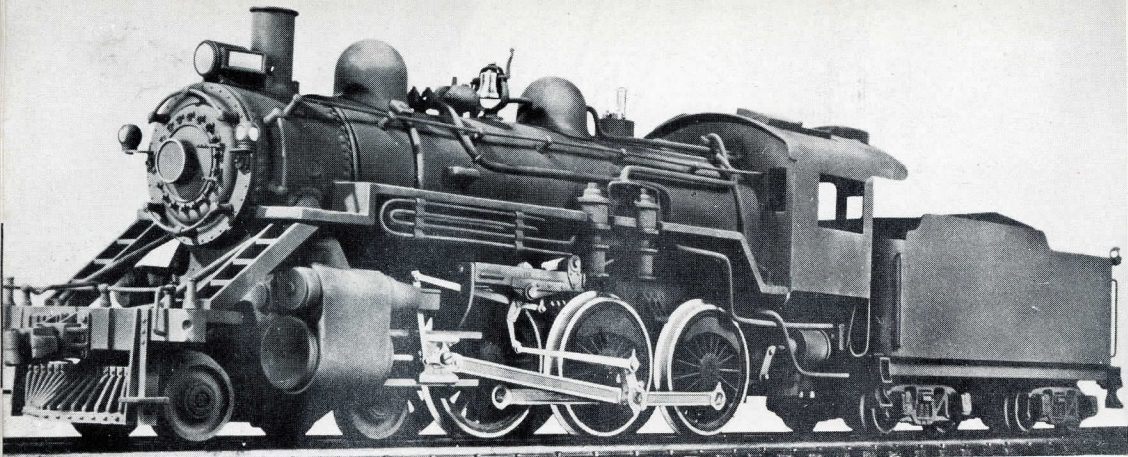
on the GMC 2-6-6-4 Articulated. Please acknowledge receipt of this order, and advise me of my order number. I should like to have a  AC-DC motor.

DC

Name .....

Address .....

City..... State.....



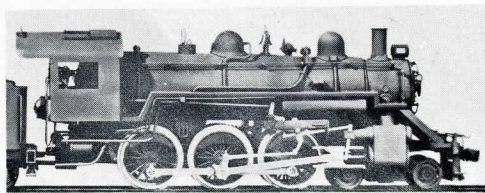
## GMC 4-6-0 TEN-WHEELER

"OLD FAITHFUL" of the GMC line. Still seen on many lines, this steam locomotive has years of dependable service to recommend it. Now used primarily for lighter jobs in and out of the yards. A "must" for all O Gage layouts. Minimum operating radius 32". Length 11 $\frac{1}{8}$ "; Height 3 $\frac{7}{8}$ "; Width 2-11/16"; Weight 5 $\frac{1}{2}$  lbs. GMC B & O Ten Wheeler is a hobbyist's dream. Requires filing, drilling, tapping, soldering, riveting. Die-cast and turned brass parts add greatly to realism of model.

Kit contains mechanism assembly with Series #100 General Motor, main frame, drivers, draw bar bracket, brake cylinders, pilot truck assembly, rods, crossheads, cranks, knuckles, valve gear assembly, motor drive accessories, pilot and pilot beam, cylinders, headlight, smoke stack, smoke box front, check valve, generator, bell and bracket, pops muffler, pop valve, whistle, smoke deflector, number plate, marker lights and brackets, cab hatch, sand dome, steam dome, air compressor, boiler, cab body, screws, washers, wire, stanchions, steps, etc. Tender kit as shown in Illustration #3 on page 22.

B & O Ten Wheeler kit is set up for two-rail operation — wheels insulated where needed. Not recommended for inside third rail operation, although is adaptable to outside third rail. Specify DC or AC-DC in order.

Complete kit available on GMC Time Payment Plan. \$17.00 down, three monthly payments of \$9.35 each. See page 46 for full particulars on Time Payments. Ten Wheeler available in Beginner's Kit shown on page 16.



*Right Side View of Ten Wheeler*

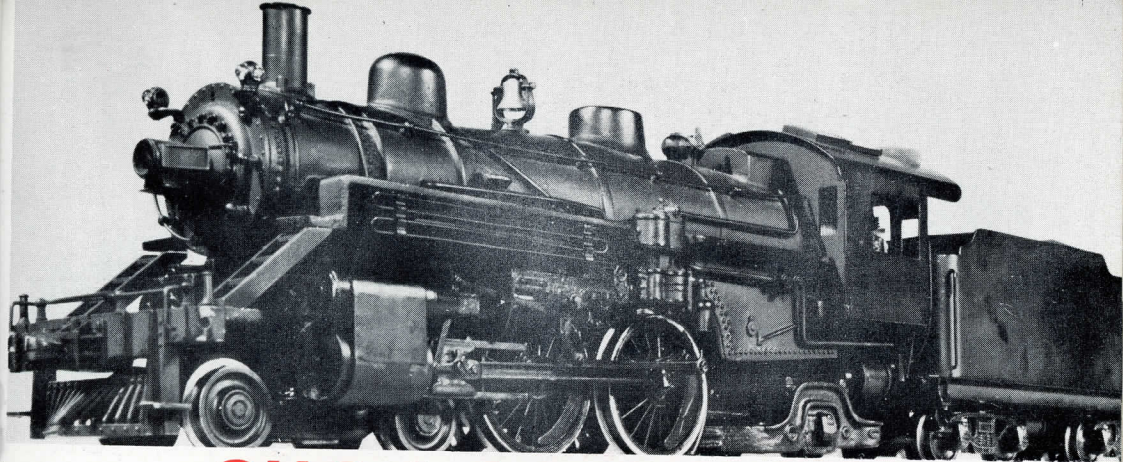
**Complete Kit (Mechanism, Boiler & Cab, Tender) Catalog #1.... \$42.50**

*Available also in separate sections.*

Section #1 (Mechanism Assembly)  
Catalog #2 ..... **\$25.00**

Section #2 (Boiler & Cab Assembly)  
Catalog #3 ..... **13.00**

Section #3 (Tender Assembly)  
Catalog #4 ..... **7.75**



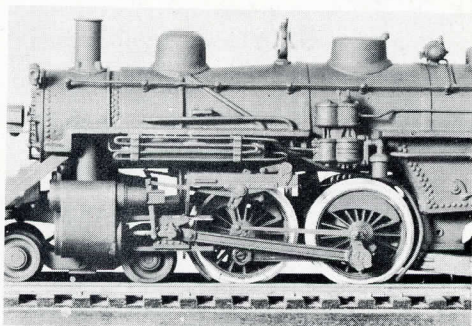
## GMC 4-4-2 ATLANTIC

A blue ribbon locomotive with great character and lots of history. Designed for speed, it is still one of the fastest, seeing wide service throughout the country. Used for short hauls, commuter service, mixed trains, etc. Minimum operating radius 32". Length 11 $\frac{1}{8}$ "; Height 3 $\frac{7}{8}$ "; Width 2-11 $\frac{1}{16}$ "; Draw bar pull 17.6 ounces; Average speed with maximum load (12v) 55 mph.

Requires filing, drilling, tapping, riveting, soldering. Die-cast and turned brass parts, minute detail, add to the appearance of the finished model. Unsurpassed for performance.

Kit contains mechanism assembly with #100 Series General Motor, main frame, drivers, draw bar bracket, brake cylinders, pilot truck assembly, rods, crossheads, cranks, knuckles, valve gear assembly, motor drive accessories, pilot and pilot beam, cylinders, headlight, smoke stack, smoke box front, check valve, generator, bell and bracket, smoke deflector, marker lights and brackets, cab hatch, sand dome, steam dome, air compressor, air tanks, power reverse, Delta trailing truck, tool box, Adams boiler casting, cab body, screws, washers, wire, stanchions, steps, etc. Complete tender kit, Illustration #3 on page 22, included.

Atlantic kit is set up for two-rail operation — wheels are insulated where needed. Not recommended for inside third rail operation, although adaptable to outside third rail. Specify AC-DC or DC in order.



*Side view showing driver and valve detail.*

**Complete Kit (Mechanism, Boiler & Cab, Tender) Catalog #5.... \$44.50**

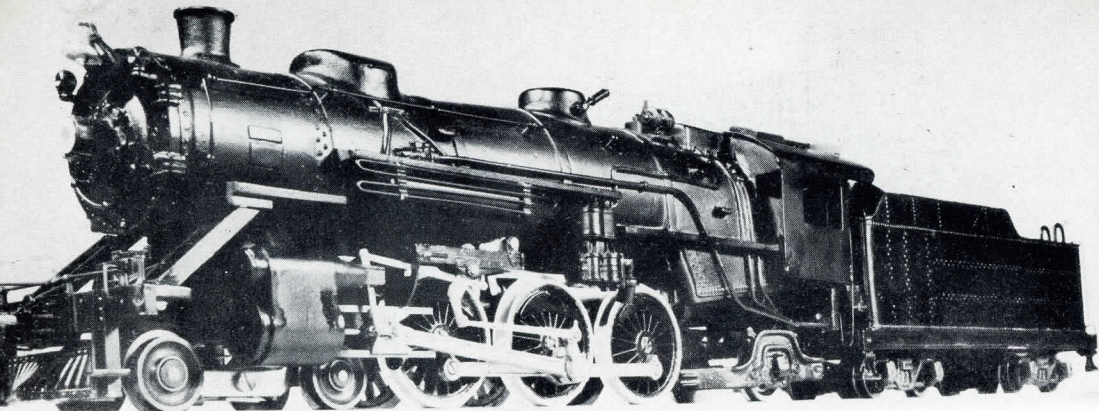
*Available also in separate sections.*

Section #1 (Mechanism Assembly)  
Catalog #6 ..... **\$25.50**

Section #2 (Boiler & Cab Assembly)  
Catalog #7 ..... **13.50**

Section #3 (Tender Assembly)  
Catalog #4 ..... **7.75**

*Complete kit available on GMC Time Payment Plan. \$17.80 down, three monthly payments of \$9.80 each. See page 46 for full particulars on Time Payments.*



## GMC 4-6-2 PACIFIC

More Pacific locomotives are seen on American railroads than any other type. Used for fast freight on short runs, fast passenger service or heavy commuter service. Minimum operating radius 36" (33" with slight additional space between tender and cab). Length 12 $\frac{3}{4}$ "; Height 3-29/32"; Width 2-11/16"; Draw bar pull 20.8 ounces; Weight less tender 6 $\frac{1}{2}$  lbs.; Average speed with maximum load (12v) 63 mph.

Requires filing, drilling, tapping, soldering, riveting. Kit contains mechanism assembly with #200 Series General Motor, main frame, drivers, draw bar bracket, pilot truck assembly, Delta trailing truck, rods, crossheads, cranks, knuckles, valve gear assembly, motor drive accessories, pilot and beam, cylinders, smoke deflector, pop valve, pop muffler, generator, bell and bracket, whistle, stanchions, hand rails, marker lights, cab hatch, power reverse, air compressor, air tanks, boiler, cab body, smoke box front, fire box backhead, screws, washers, wire, etc. Complete tender kit (Illustration #2 on page 22) included.

**Complete kit (Mechanism, Boiler & Cab, Tender) Catalog #10 .....\$55.00**

*Available also in separate sections.*

**Section #1 (Mechanism Assembly)  
Catalog #11 .....\$28.00**

**Section #2 (Boiler & Cab Assembly)  
Catalog #12 ..... 17.50**

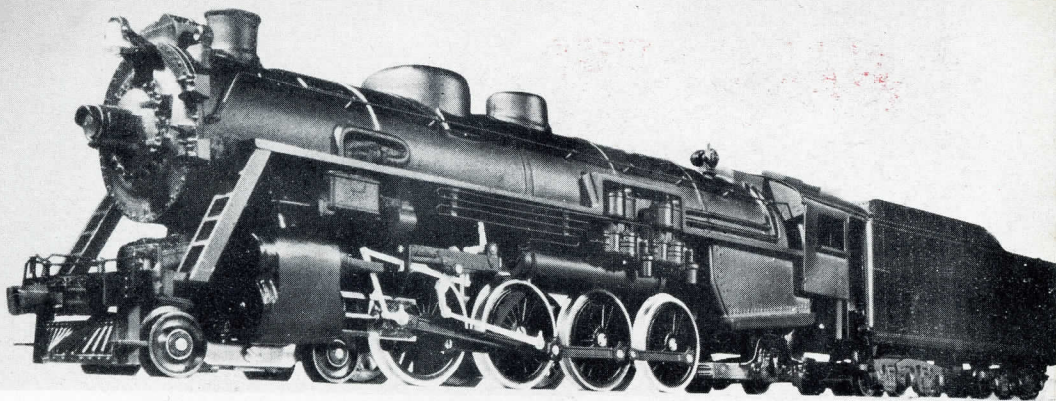
**Section #3 (Tender Assembly)  
Catalog #13 ..... 10.95**

Pacific kit is set up for two-rail operation — wheels are insulated where needed. Not recommended for inside third rail operation, although adaptable to outside third rail. Specify DC or AC-DC in your order.

Complete kit available on GMC Time Payment Plan. \$22.00 down, three monthly payments of \$12.10 each. See page 46 for full particulars on Time Payments.

## GMC LOCOMOTIVE SELECTION TABLE

Locomotive Type	Locomotive Dimensions				Tender Dimensions			Wheel Base In.	Driver Dia. In.	Draw Bar Pull Oz.	Motor Type #	Av. Speed with Max. load 12v.
	Lgth. In.	Ht. In.	Wdth. In.	Wt. Lb.	Lgth. In.	Ht. In.	Wt. Lb.					
F-3 Diesel-A Unit	13	3 $\frac{11}{16}$	2 $\frac{1}{2}$	7 $\frac{1}{4}$	—	—	—	2 $\frac{1}{4}$	40	23.2	200	62 mph
F-3 Diesel-B Unit	12 $\frac{7}{8}$	3 $\frac{11}{16}$	2 $\frac{1}{2}$	8 $\frac{3}{4}$	—	—	—	2 $\frac{1}{4}$	40	28	200	62 mph
Diesel Switcher	11 $\frac{1}{8}$	3 $\frac{3}{8}$	2 $\frac{9}{16}$	4 $\frac{1}{2}$	—	—	—	2	40	14.4	100	38 mph
Articulated	19	3 $\frac{7}{8}$	3	11 $\frac{1}{4}$	11 $\frac{1}{4}$	3 $\frac{11}{16}$	2 $\frac{1}{2}$	15 $\frac{1}{4}$	70	42.5	200	75 mph
Mountain	15	4 $\frac{1}{8}$	2 $\frac{3}{4}$	8 $\frac{1}{2}$	11 $\frac{1}{4}$	3 $\frac{11}{16}$	2 $\frac{1}{2}$	11	70	27.2	200	75 mph
Pacific	12 $\frac{3}{4}$	3 $\frac{29}{32}$	2 $\frac{11}{16}$	6 $\frac{1}{2}$	8 $\frac{5}{8}$	3 $\frac{7}{32}$	1 $\frac{1}{2}$	9 $\frac{1}{32}$	70	20.8	200	63 mph
Atlantic	11 $\frac{1}{8}$	3 $\frac{7}{8}$	2 $\frac{11}{16}$	5 $\frac{1}{2}$	6 $\frac{7}{8}$	3 $\frac{5}{32}$	1 $\frac{1}{2}$	7 $\frac{1}{4}$	70	17.6	100	55 mph
Ten-Wheeler	11 $\frac{1}{8}$	3 $\frac{7}{8}$	2 $\frac{11}{16}$	5 $\frac{1}{2}$	6 $\frac{7}{8}$	3 $\frac{5}{32}$	1 $\frac{1}{2}$	6 $\frac{1}{2}$	70	17.6	100	61 mph



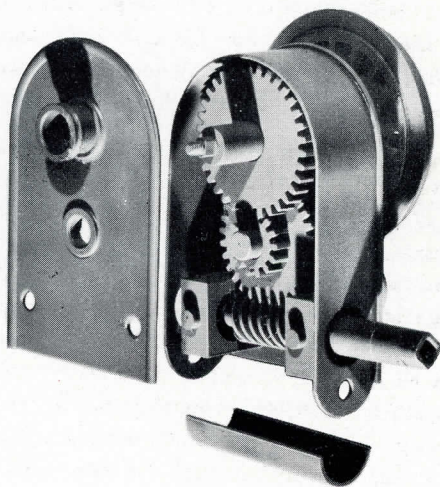
## GMC 4-8-2 MOUNTAIN

For the biggest and best standard locomotive — one that can handle your heaviest freight and passenger hauls — get a GMC MOUNTAIN! Operates with ease on 48" radius curves; smooth and quiet running; sprung pilot truck actually leads frame into turns; sprung drivers assure equalized traction over the roughest stretch on your pike.

Length 15"; Height 4 $\frac{1}{8}$ "; Width 2 $\frac{3}{4}$ "; Weight 8 $\frac{1}{2}$  lbs.; Drawbar pull 27.2 ounces; average speed with maximum load (12v) 75 mph. Kit requires filing, drilling, tapping, soldering, riveting. Contains bronze satin-smooth Adams boiler casting, preformed cab, gear box, main frames, 70" drivers, pilot truck kit, rods, crossheads, knuckles, motor drive accessories, valve gear kit, pilot and beam, cylinders, Delta trailing truck with booster, #200 Series General Motor, smoke deflector, window sills, bell, whistle, pop valve, generator, marker lights, air compressor, air tanks, feed water heater, hot water pump (Worthington), cold water pump, injector, power reverse, smoke box front, firebox backhead, screws, washers, wire, brackets, etc. Complete tender kit (Illustration #1 on page 22) included.

Mountain kit is set up for two-rail operation — wheels are insulated where needed. Not recommended for inside third rail operation although adaptable to outside third rail. Specify AC-DC or DC in order.

Startling performance of the Mountain is due in part to GMC gear box shown below. Factory assembled, it features a 4-thread worm with double reduction gear arranged to permit Free Running or coasting as required.

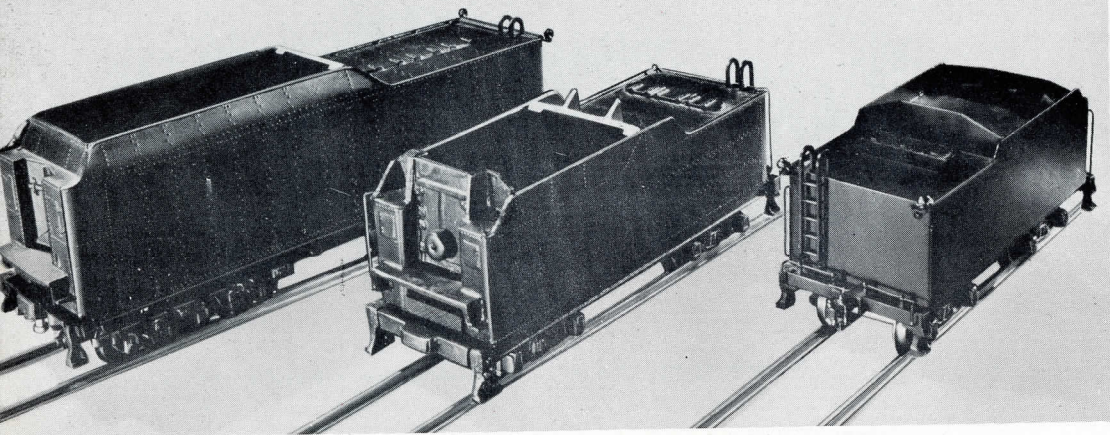


*Exploded View of GMC Free-Running Gear.*

- Complete kit (Mechanism, Boiler & Cab, Tender) Catalog #17 .....\$72.50**  
*Available also in separate sections.*  
**Section #1 (Mechanism Assembly) Catalog #18 .....\$37.50**  
**Section #2 (Boiler & Cab Assembly) Catalog #19 ..... 25.00**  
**Section #3 (Tender Assembly) Catalog #20 ..... 17.50**

Complete kit available on GMC Time Payment Plan. \$29.00 down, three monthly payments of \$15.95 each. See page 46 for full particulars on Time Payments.

# GMC TENDER KITS



## MOUNTAIN TYPE TENDER

(Illustration #1)

Large, long distance type tender used for Mountain and Articulated locomotives. 11 $\frac{1}{4}$ " long by 3-11/16" high—weighs 2 $\frac{1}{2}$  lbs. Truly a fitting companion for a powerful long-haul locomotive. Cast in aluminum by Adams & Sons, rivet and other detail is included in each of the six separate castings that make up the body of the tender. Maximum detail made possible by casting separately.

Requires a minimum of filing, drilling and tapping. Kit contains cast aluminum body sections (described above); milled wood floor; ladder side frames and rungs; cast tender steps; molded brake cylinder; coupler; marker lights and brackets; coupler release stanchions; bolsters; equalizing bars; cast bronze "buckeye" 6-wheel truck side frames; 33" wheel and axle assemblies; screws, washers, wire, etc. Wheel assemblies single-insulated for two-rail operation.

Kit complete—  
Catalog #20 .....\$17.50

## PACIFIC TYPE TENDER

(Illustration #2)

Pacific tender is used to accompany heavy engines, but on shorter hauls than the Mountain will accommodate. 9 $\frac{1}{4}$ " long by 3 $\frac{1}{4}$ " high — weighs 1 $\frac{1}{2}$  lbs. Sectionally cast in aluminum with rivets, hinges, hatches, etc., highly detailed. Sectional assembly requires small amount of flash cleaning, etc. Filing reduced to a minimum by use of clean, smooth castings. Drilling and tapping required for mounting of ladder, steps, etc. — just enough to add that pinch of craftsmanship to the job.

Kit contains cast aluminum sides, back, front, deck, under-frame; milled wood floor; ladder side frames and rungs; rear tender steps; coupler release stanchion; coupler; brake cylinder; bolster; 33" wheel and axle assemblies; Andrews type truck side frames; assorted screws, washers, wire, etc. Wheel assemblies single-insulated type for two-rail operation.

Kit complete—  
Catalog #13 .....\$10.95

## ATLANTIC TYPE TENDER

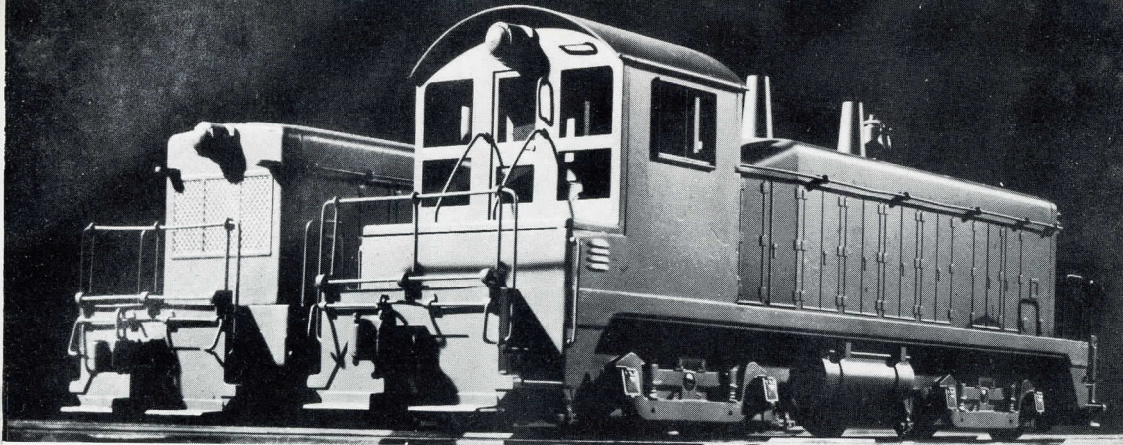
(Illustration #3)

Light duty tender used with Atlantic and Ten-Wheeler locomotives. Designed for locomotives with small boiler capacities. Used primarily for switching operations or short hauls and commuter runs where water and coal are readily available. 6 $\frac{7}{8}$ " long by 3-5/32" high—weighs 1 $\frac{1}{2}$  lbs. Stamped and formed brass sides, deck and front bulkhead. Excellent kit for soldering. Body assembly is finished off with soldered joints for neatness and stability.

Kit contains stamped and pre-formed brass sides, ends, deck; cast frame; cross beams; ladder and rungs; tender step; coupler release stanchions; marker lights and brackets; brake cylinder; back stop; tender water cover; coupler; buffer; bolster; 33" wheel and axle assemblies; Andrews type truck frames; screws, washers, wire, etc. Wheel assemblies single-insulated for two-rail operation.

Kit complete—  
Catalog #4 ..... \$7.75





## GMC DIESEL SWITCHER

### REPLICA OF THE FAMOUS 1000 HP EMC SWITCHER

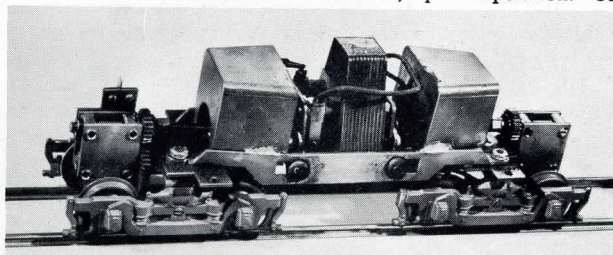
Ideal kit for beginners as well as experts. Diesel Switcher is a necessary addition to your pike for making up trains, humping and other yard operations, short freight hauls. Length 11 1/8"; Height 3 3/8"; Width 2-9/16"; Weight 4 1/2 lbs.; Draw bar pull 14.4 ounces; Average speed with maximum load (12v) 38 mph. Adaptable to 4 or 8 wheels powered.

Superstructure, truck side frames and accessories all die-cast in Zamac No. 3. Turned brass bell, plastic headlight lenses, turned handrail stanchions, pre-formed grabirons. Black baked enamel finish suitable for undercoating or final color. Handrails, stacks, bell, horn, front and rear bulk-

heads and tinplate pilots already assembled. Merely install motor and transmission unit - trucks.

All kits come with tinplate pilots assembled. Suitable for scale operation. Scale pilot (Catalog #4006), unpainted, available at \$1.50 pair extra. Specify in order.

Motor mounts on four rubber grommets for smooth, quiet operation. See small illustration



for switcher chassis with motor mounted, added weights installed and 8 wheels powered.

Diesel Switcher will operate on tinplate third rail track. Order Catalog #42, 43 and 47

for tinplate. Includes tinplate trucks and wheels and roller pickup assembly (for powered units).

- Dummy kit, scale trucks (unpowered)  
Catalog #46 ..... \$ 9.95
- Dummy kit, tinplate trucks (unpowered)  
Catalog #47 ..... 9.95
- Scale kit, 4-wheels powered  
Catalog #40 ..... 23.50
- Scale kit, 8-wheels powered  
Catalog #41 ..... 29.95
- Tinplate kit, 4-wheels powered  
Catalog #42 ..... 24.50
- Tinplate kit, 8-wheels powered  
Catalog #43 ..... 30.95

Specify AC-DC or DC in Order.

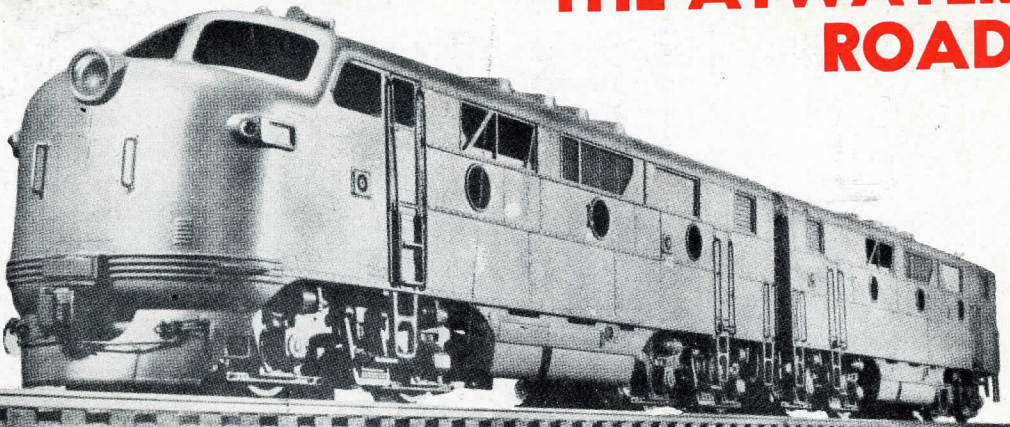
*Diesel Switcher kits available on GMC Time Payment plan as follows:*

- Catalog #40—  
\$ 9.40 down—\$5.20 per month for 3 months
- Catalog #41—  
12.00 down— 6.60 per month for 3 months
- Catalog #42—  
9.80 down— 5.40 per month for 3 months
- Catalog #43—  
12.40 down— 6.80 per month for 3 months

See page 46 for full particulars on  
Time Payments.

*This Diesel Switcher also available in Beginner's Kit described on page 16.*

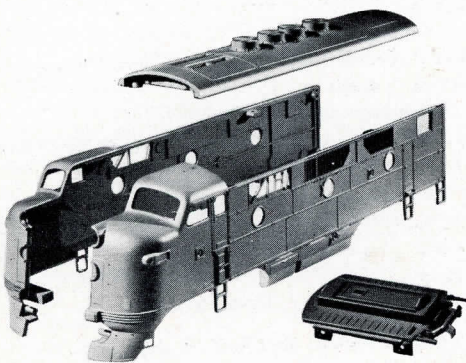
# THE ATWATER ROAD



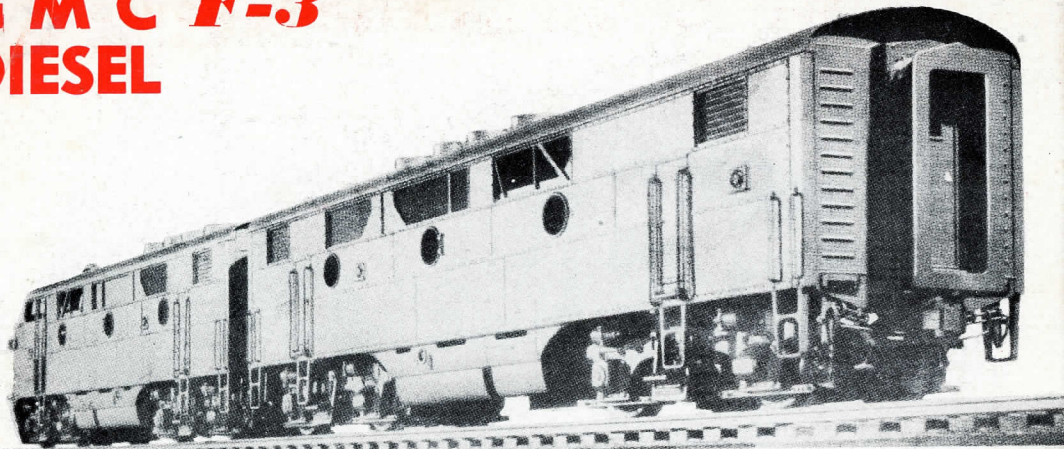
In January of 1949, the ATWATER-GMC F-3 ROAD DIESEL was first offered to the model railroader. Since that time, the response to this great locomotive has been overwhelming. The designer, Mr. Frank Libuse, unable to obtain a complete set of plans of the prototype, took actual measurements of the Electro-Motive F-3 and scaled them to O gage. Over 18 months of research, tooling, checking and re-checking, testing and experimenting went into the development of the ATWATER-GMC F-3. Even since the first models were available refinements have been added in an effort to bring you the best possible model locomotive kit available. As irrefutable proof of the amazingly realistic detail of this model, many of the large railroads throughout the country have displays using the ATWATER-GMC F-3 Diesel.

"A" Unit — Length 13"; Height 3-11/16"; Width 2½"; Weight 7¼ lbs.; Draw bar pull 23.2 ounces; Average speed with maximum load (12v) 62 mph. "B" Unit — Length 12⅞"; Height 3-11/16"; Width 2½"; Weight 8¾ lbs.; Draw bar pull 28 ounces; Average speed with maximum load (12v) 62 mph. "B" unit differs from "A" unit in that it has two ends and no nose.

Body units cast of Zamac #3, a high-quality zinc alloy, pressure-cast to bring out the superb detail of every rivet and cavity. Four body sections assemble easily with eleven internal screws; sections tongued and grooved for accurate alignment and rigidity. All holes drilled and tapped where required. Truck detail complete from cotter pins to brake shoe springs. Journal boxes contain self-aligning replaceable bronze bearings. All wheels completely equalized — each wheel always in contact with rail. Weight distribution as in prototype. Side frame detail faithfully reproduced. Close manufacturing tolerances and self-aligning journal bearing feature allow scale distance and position of brake shoes in relation to wheels. Paper diaphragm and brass striker plates add to realism. Central light compartment in "A" unit provides illumination for choice of number boards (including 45°), marker lights, headlights and



# G M C F-3 DIESEL



## PRICES FOR F-3

Mars light. Four different front-end arrangements can be modeled by making small changes on nose casting.

Kits come complete with operating scale couplers, tongued and grooved turned-plastic headlight lenses, plastic color indicators, light bulbs, die-cast and turned detail such as horns, vent exhausts, intakes, acetate windows and grills, grab irons, coupler release rods, roof plate lift rings, screws, nuts, clamps, etc.

Turn page for description of power and transmission units available.

### *Complete kits available on GMC Time Payment Plan.*

Catalog #1000—  
**\$10.30** down—\$6.35 per month for 3 months

Catalog #1001—  
**9.40** down— 5.50 per month for 3 months

Catalog #1015—  
**15.20** down— 8.35 per month for 3 months

Catalog #1017—  
**14.70** down— 8.10 per month for 3 months

Catalog #1019—  
**17.80** down— 9.80 per month for 3 months

Dummy F-3 A Unit, scale  
Catalog #1000 ..... **\$25.75**

Dummy F-3 A Unit, tinplate  
Catalog #1002 ..... **25.75**

Dummy F-3 B Unit, scale  
Catalog #1001 ..... **23.50**

Dummy F-3 B Unit, tinplate  
Catalog #1003 ..... **23.50**

F-3 A Unit, scale, 4 wheels powered  
Catalog #1015 ..... **38.00**

F-3 A Unit, tinplate, 4 wheels powered  
Catalog #1016 ..... **39.50**

F-3 B Unit, scale, 4 wheels powered  
Catalog #1017 ..... **36.75**

F-3 B Unit, tinplate, 4 wheels powered  
Catalog #1018 ..... **37.75**

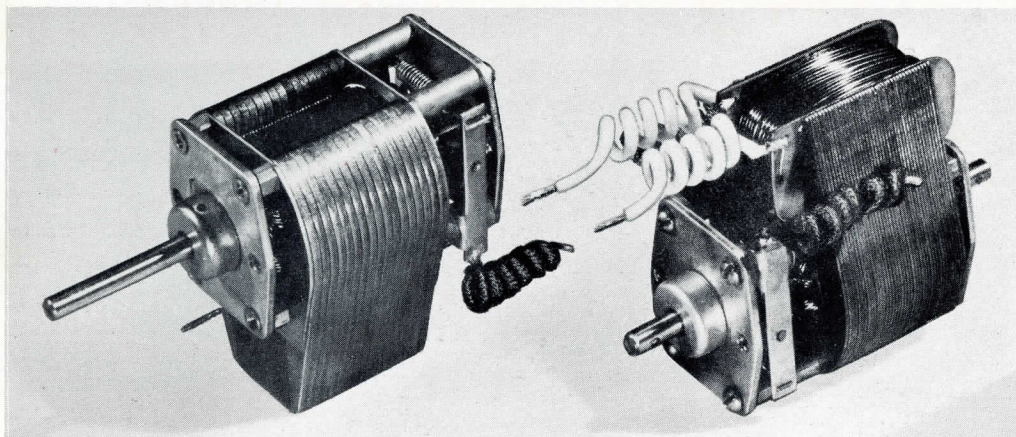
F-3 B Unit, scale, 8 wheels powered  
Catalog #1019 ..... **44.50**

F-3 B Unit, tinplate, 8 wheels powered  
Catalog #1020 ..... **45.50**

(A units, 8 wheels powered not recommended. Light compartment must be removed, sacrificing detail.)

Specify AC-DC or DC in order.

# POWER FOR YOUR LOCOMOTIVE



**AC**

**AC-DC**

THE GENERAL MOTOR designed by GMC answers the need for greater power and dependability. It is half again as powerful as other motors of comparable size. Parts replacement is facilitated through simple design and construction. Complete brush assembly and front bearing may be removed or replaced without danger of misaligning field. Over-sized lubrication cups and stabilized brushes provide trouble-free operation. 7-pole motor available in two stack sizes. In a 1" stack motor, the field laminations are built up to 1"; in the 5/8" stack motor, similarly, the laminations are built up to 3/8". Each size available in single or double shaft, AC-DC or DC. The 5/8" stack motor is furnished with the Diesel Switcher, Atlantic and Ten-Wheeler locomotives. The 1" stack motor is furnished with the Pacific, Mountain, F-3 and Articulated locomotives.

The hobbyist should specify whether an AC-DC or DC motor is desired and whether a single or double shaft is to be used. The AC-DC motor is

used when power is utilized from the house circuit through a transformer but without a rectifier. The DC motor is used when power is furnished through a rectifier. **DO NOT ATTEMPT TO OPERATE A DC MOTOR ON AC CURRENT!!!** AC current will first demagnetize the permanent magnet and if left on for any length of time, will generate enough heat to burn out certain windings on the armature. Also, in completely disassembling a motor with a permanent magnet, magnetism is lost and the magnet must be "re-charged."

The single shaft motor is designed for use with steam-type locomotives and the double shaft motor is for use in traction-type locomotives or powered cars where motor is center-mounted.

## POWER PROBLEMS ANSWERED!

### Why add weights to your locomotive?

Power in any locomotive is in direct proportion to its weight on the drivers.

### What is the draw bar pull of your loco?

The draw bar pull of any unit, in ounces, is approximately 20% of the weight on the drivers (2-4-6- or 8). Wheels on locomotives that do not drive must be considered "built-in train weight."

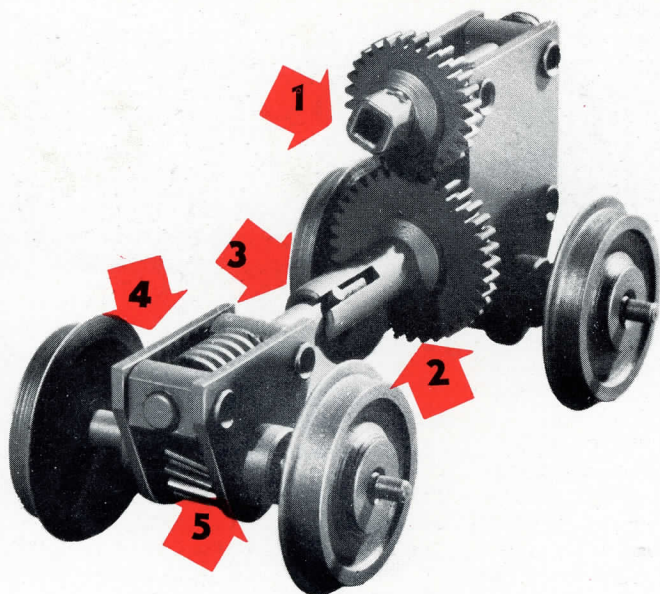
Example: Loco weight 128 oz. (8 pounds) equals draw bar pull 25.6 oz.

### How much draw bar pull is required to pull your train?

5% of the total weight of the equipment to be pulled, expressed in ounces, is the draw bar pull required to move your train (includes freight and passenger cars, tender and unpowered wheels of locomotives). Example: Draw bar pull required to pull 20-car train with train weight 540 oz. (35 pounds) equals 27+ oz.

Cat. No.	Stack	Current	Shaft	Price
1400	5/8"	DC	Single	\$6.25
1402	5/8"	AC-DC	Single	6.25
1401	5/8"	DC	Double	6.25
1403	5/8"	AC-DC	Double	6.25
1404	1"	DC	Single	6.75
1406	1"	AC-DC	Single	6.75
1405	1"	DC	Double	6.75
1407	1"	AC-DC	Single	6.75

# GMC TRANSMISSION UNITS



THE TRANSMISSION UNIT—Insulated flexible shaft, constructed of long wearing spring metal, transmits power from the motor to the square shaft (1) in the transmission unit and takes up end play. A brass-to-fibre gear arrangement (2) is used to reduce noise, and the slow speed shaft (3) is splined to accommodate various wheel centers from 1 $\frac{7}{8}$ " to 2 $\frac{5}{8}$ ". Worms (4) drive the wheels through gear boxes on each axle permitting each set of wheels to equalize itself. For smooth power and longer life, the axles run in bronze bushings (5) on the gear box. These

Power and auxiliary transmission units are available for installation in diesel and other traction equipment. Included in the power transmission unit is the truck assembly, a 1" or  $\frac{5}{8}$ " stack double shaft General Motor, flexible shaft, power takeoff, gear drive units, motor mounting plates and accessories, weight. Auxiliary transmission unit contains truck assembly, flexible shaft, power takeoff, gear drive units, weight, no motor. The auxiliary transmission unit is used for powering all 8 wheels. Both kits contain complete instructions for installing.

transmission units are the key to GMC's greater pulling power since all four wheels are powered at once — eliminating "built-in" train weight.

## Power Transmission Units

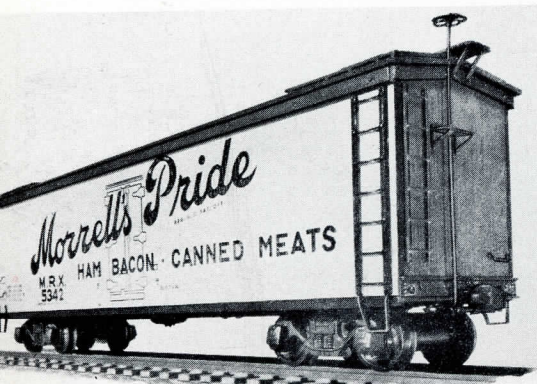
F-3, scale, Catalog #1425.....	\$13.75
F-3, tinplate, Catalog #1427.....	14.75
Diesel switcher, scale, Catalog #1440.....	13.75
Diesel switcher, tinplate, Catalog #1442...	14.75

## Auxiliary Transmission Units

F-3, scale, Catalog #1426.....	\$8.00
F-3, tinplate, Catalog #1428.....	8.00
Diesel switcher, scale, Catalog #1441.....	8.00
Diesel switcher, tinplate, Catalog #1443.....	8.00

*All power and auxiliary transmission units are in kit form.*

# GMC WOOD REEFERS



Morrell's Pride Refrigerator Express, black letters on bright yellow background. Tuscan red top and trim.  
Catalog #3565 (less trucks) ..... \$3.40

To carry the nation's perishables across the country, GMC offers these eight smart refrigerator cars. The super-detailed kits contain everything to make your reefer complete. Milled wood body parts; scribed wooden car sides lettered and colored by the Photo Color Process (see page 29); die-cast ice hatches; molded AB plastic brake set; formed grab irons; stamped steps and ladders; under-frame; cross braces; end sills; roof hand holds; brake and ice platforms; roof walk supports; brake wheel; body bolsters; pins; brads, screws, washers, wire, instructions. Dummy tinsplate or scale couplers included—specify choice.

Complete with your choice of sides and couplers, but less trucks.

**Catalog #3564 (R P R X) .....\$3.50**

**All others..... 3.40**

All GMC car kits have been designed for either scale or tinsplate operation. In every car order, specify type of trucks and couplers desired.

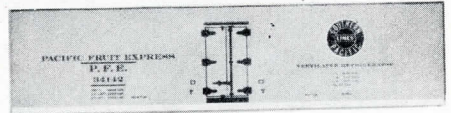
Page Twenty-Eight



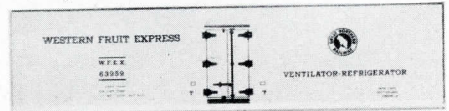
#3565 Morrell's Pride



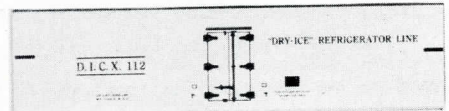
#3564 Rath's Black Hawk Ham



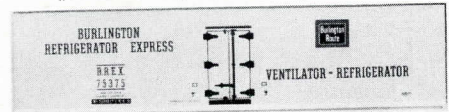
#3560 Pacific Fruit Express



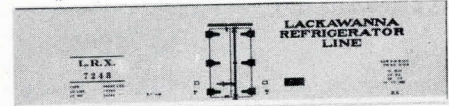
#3561 Western Fruit Express



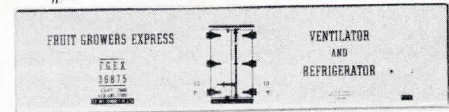
#3563 "Dry-Ice" Refrigerator



#3567 Burlington Refrigerator



#3562 Lackawanna Refrigerator



#3566 Fruit Growers Express

Truck kits for reefers—

#3802 Bettendorf, scale .....\$1.10

#3800 Andrews, scale ..... 1.10

#3803 Bettendorf, tinsplate ..... 1.25

#3801 Andrews, tinsplate ..... 1.25

#3805 Bettendorf, scale, double ins. .... 1.25

#3804 Andrews, scale, double ins. .... 1.25

O-GAGER

# GMC FORTY FOOT STEEL BOX CARS

The 40' steel box car is the work wagon of the roads. Bring YOUR pike to life with a yard full of these GMC box cars. A complete line from which to choose.

Super-detailed kits contain formed, stamped and embossed metal sides showing rivet detail; ends and roof. Milled wood roof, floor and end underpieces for strength; stamped metal ladders; formed metal cross-braces; stamped roof end platforms; formed roof ribs; formed channel under-frame; stamped metal dreadnaught car ends; formed grab irons; hand holds; pressure-molded plastic AB brake set; formed metal door slides; stamped Ajax brake wheel and housing; molded coupler pockets; placard boards; machined bolster mounting block; stamped brake platform; stamped roof walk support; brads, pins, washers, screws, complete assembly instructions to make your job easy yet interesting. Also included are dummy couplers — specify scale or tinplate.

## Available kits — less trucks:—

Catalog #3632 B & O Sentinel .....	<b>\$3.95</b>
Catalog #3620 NYC Pacemaker .....	<b>3.80</b>
Catalog #3633 Roberval Saguenay .....	<b>3.65</b>
Catalog #3621 Union Pacific .....	<b>3.50</b>
Catalog #3622 Baltimore & Ohio .....	<b>3.50</b>
Catalog #3623 Gulf, Mobile & Ohio .....	<b>3.50</b>
Catalog #3624 Pennsylvania .....	<b>3.50</b>
Catalog #3625 Burlington .....	<b>3.50</b>
Catalog #3626 Orange Blossom Special (Seaboard) .....	<b>3.50</b>
Catalog #3627 Lackawanna .....	<b>3.50</b>
Catalog #3628 Chesapeake & Ohio .....	<b>3.50</b>
Catalog #3629 Nickel Plate .....	<b>3.50</b>
Catalog #3630 NY, NH & H .....	<b>3.50</b>
Catalog #3631 Canadian Pacific .....	<b>3.50</b>
Catalog #3634 C & O (New Style) .....	<b>3.50</b>



"B & O Sentinel — Aluminum Body, Blue Lettering and Bottom Yellow Band. Yellow, Black, White and Green Sides."

## ABOUT PHOTO COLOR

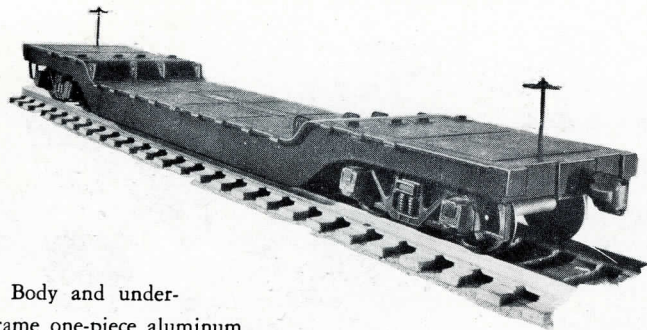
GMC Steel Box Cars and Wood Reefers have the added advantage of sides finished with the sensational Photo Color Process. A flat color is first sprayed and baked onto the metal car side which is then photo-sensitized by a special process. A photographic negative of an actual car side is projected on the miniature and developed.

By means of this photographic process, absolute reproduction of the prototype is possible, from simple box-car red and white to beautiful multi-colored sides. Even the smallest lettering is faithfully copied. And they're color-fast! Paint and lettering will not chip, crack nor peel, even under hard usage. This amazing toughness and durability is the result of the chemical reaction of the emulsion on the special paint base.

## Truck Kits for Steel Box Cars

#3802 Bettendorf, scale .....	<b>\$1.10</b>
#3800 Andrews, scale .....	<b>1.10</b>
#3803 Bettendorf, tinplate .....	<b>1.25</b>
#3801 Andrews, tinplate .....	<b>1.25</b>
#3805 Bettendorf, scale, double ins. ....	<b>1.25</b>
#3804 Andrews, scale, double ins. ....	<b>1.25</b>

# GMC DROP CENTER FLAT CAR



Body and underframe one-piece aluminum Adams casting with authentic rivet, panel and bracket detail. Requires cleaning of flash from casting. Truck bolster holes drilled and tapped. Kit contains main car casting, steps, dummy couplers, coupler mounting plate, brake wheels, screws, wire, instructions, etc.

**Kit complete, less trucks—Catalog #3611.....\$3.50**

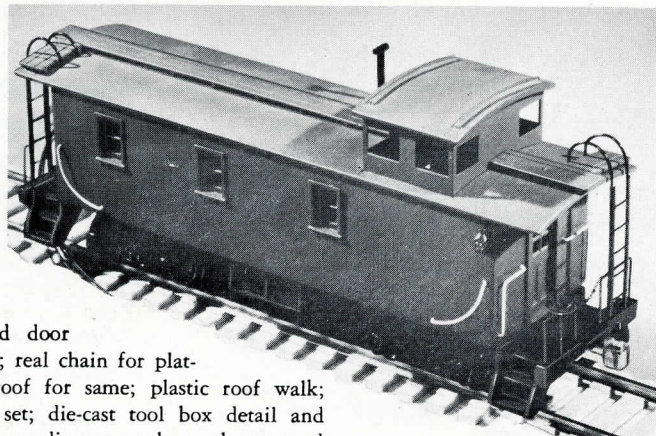
(Specify scale or tinplate couplers.)

A special car to handle those heavy unwieldy loads carried over your pike. The prototype is used to transport large crates, heavy machinery, transformers, huge boilers and tanks — anything that would have trouble clearing overhead obstructions along the right-of-way.

## Trucks for Drop Center Flat Cars

#3802 Bettendorf, scale	.....	\$1.10
#3800 Andrews, scale	.....	1.10
#3803 Bettendorf, tinplate	.....	1.25
#3801 Andrews, tinplate	.....	1.25
#3805 Bettendorf, scale, double insulated	.....	1.25
#3804 Andrews, scale, double insulated	.....	1.25

# GMC CABOOSE



No freight string is complete without a "crummy." Now you can obtain the finest Caboose available at a fraction of its original cost.

Kit contains one-piece cast underframe including steps—drilled and tapped for trucks; wood roof milled to shape; wood sides and ends shaped and scribed; die-cast windows and door frames; marker lanterns with jewels; real chain for platform; stamped cupola and wood roof for same; plastic roof walk; pressure molded plastic AB brake set; die-cast tool box detail and wood backing piece; milled wood floor; die-cast smoke stack; stamped and formed brake wheels; hand rails; platform rails; roof walk spacers; screws, escutcheon pins, wire, instructions, etc. Caboose kit allows the hobbyist to indulge his fancy in placement of cupola, windows, etc., due to wide difference of prototypes. Scale or dummy couplers included, specify choice.

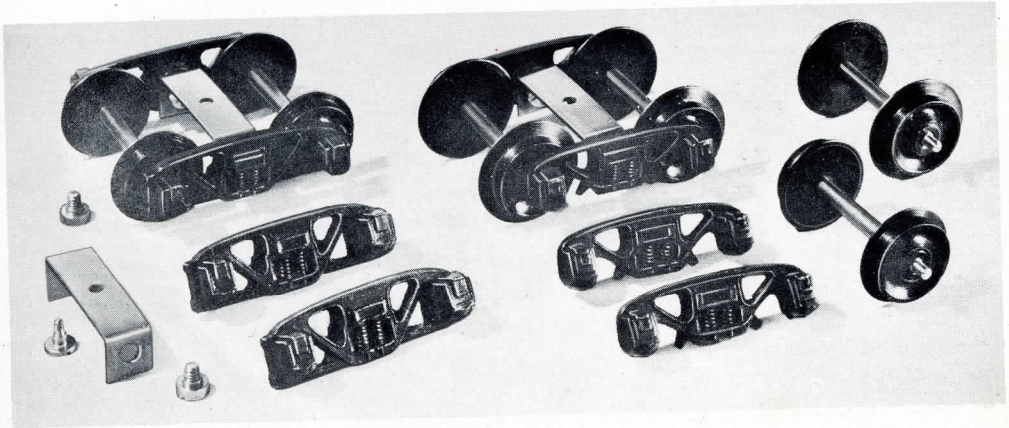
**Kit complete, less trucks—Catalog #3612.....\$4.50**

## Truck Kits for Caboose

#3802 Bettendorf, scale	.....	\$1.10
#3800 Andrews, scale	.....	1.10
#3803 Bettendorf, tinplate	.....	1.25
#3801 Andrews, tinplate	.....	1.25
#3805 Bettendorf, scale, double insulated	.....	1.25
#3804 Andrews, scale, double insulated	.....	1.25



# TRUCKS AND WHEELS



## WHEELS

33" Freight Wheel, uninsulated Catalog #1346	each	\$ .12
33" Freight Wheel, insulated Catalog #1347	each	.15
33" Freight Wheel, tinplate Catalog #1350	each	.13
36" Passenger Wheel, scale, unins. Catalog #1576	each	.13
36" Passenger Wheel, scale, insul. Catalog #1577	each	.16
40" Traction Wheel, uninsulated Catalog #2146	each	.15
40" Traction Wheel, insulated Catalog #2147	each	.17

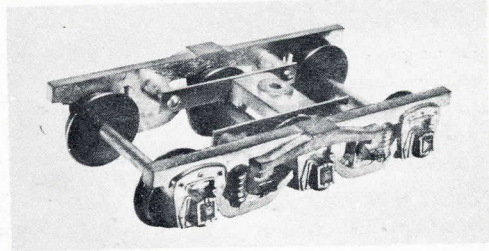
## WHEELS ON AXLES

33" Freight wheels on axle, tinplate Catalog #1536T		.35
33" Freight wheels on axle, scale Catalog #1536		.30
33" Pass. wheels on axle, scale, double insulated Catalog #1536E		.35
36" Pass. wheels on axle, scale Catalog #1635		.30
36" Pass. wheels on axle, tinplate Catalog #2152		.30
40" Traction wheels on axle, tinplate Catalog #2153		.25

## TRUCKS AND AXLES

Axle, pilot truck Catalog #1349	each	.10
Axle, standard, knurled, scale Catalog #4066	each	.10
Axle, standard, scale Catalog #1524	each	.10
Axle, tinplate Catalog #2148	each	.10
Truck side frames, Andrews, set of 4 Catalog #1533		.75
Truck side frames, Bettendorf, set of 4 Catalog #1534		.75
Truck side frames, Passenger, set of 4 Catalog #1519		1.95

Illustrated above are Andrews (left assembly) and Bettendorf (right assembly) truck side frames. The Andrews side frame is designed for heavy service — drop center flats, heavy capacity box and gondolas, tenders such as those used with Atlantic and Pacific engines, etc. The Bettendorf side frame is designed for normal freight service — reefers, box and automobile cars, stock cars, cabooses, etc. Truck kits include wheels on axles, side frames, bolster, truck bolster screw, bolster mounting screws. Each kit contains component parts for two trucks.



Truck kit, Andrews, scale Catalog #3800		\$ 1.10
Truck kit, Andrews, tinplate Catalog #3801		1.25
Truck kit, Andrews, scale, double ins. Catalog #3804		1.25
Truck kit, Bettendorf, scale Catalog #3802		1.10
Truck kit, Bettendorf, tinplate Catalog #3803		1.25
Truck kit, Bettendorf, scale, double ins. Catalog #3805		1.25
Passenger truck kit, 6-wheel, scale Catalog #3809		\$ 2.50
Passenger truck kit, 6-wheel, tinplate Catalog #3810		2.75

# COUPLERS - ADAPTERS

for TINPLATE OPERATION

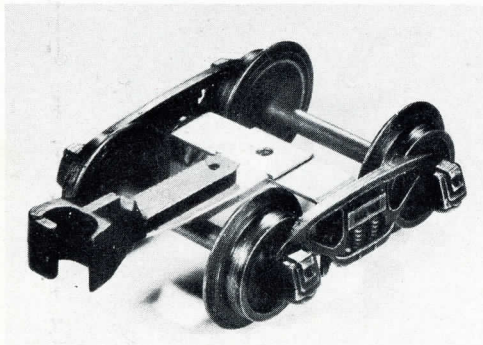


Illustration showing tinplate dummy coupler and bolster adapter mounted in position on scale truck fitted with tinplate wheels allowing operation with Lionel automatic couplers.

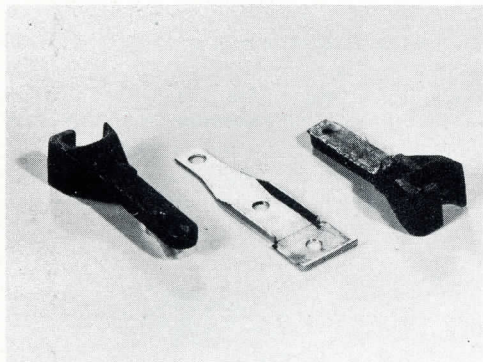


Illustration showing top and bottom of tinplate dummy coupler with bolster adapter before mounting.

GMC tinplate coupler and adapter assembly is designed to convert scale equipment to use with tinplate cars. It allows for differences in height-from-rail and has a special jaw opening to facilitate operation with tinplate automatic couplers. With this new coupler you are assured of necessary alignment to allow perfect coupling with Lionel equipment on straights or curves.

- GMC tinplate dummy couplers with adapters  
Catalog #3822—per pair .....\$ .30
- GMC tinplate dummy couplers less adapters  
Catalog #3820—per pair ..... .25
- GMC tinplate coupler bolster adapter  
Catalog #3821—per pair ..... .20

(Bolster adapters will work only with GMC Tinplate couplers.)

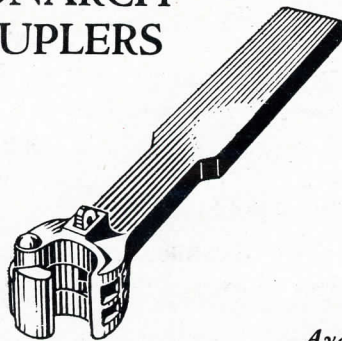
# M.R.M.A. Announces FALL SHOW

The Model Railroad Manufacturer's Association has announced plans for a Fall Show to be held in Philadelphia, October 30 through November 4. Manufacturers will have individual exhibits with skilled personnel on hand to answer any and all inquiries. In addition, amateur model builders will be at work in some booths building up kits. Several large layouts will be on display at the show including the new B & O HO gage pike, overall dimensions 18' x 36'; the Philadelphia Model Railroad Club's portable O gage layout, 20' x 40'; and the Model Railroad Manufacturer's HO co-operative layout, 64' long.

A feature of the show will be an information booth designed primarily for new recruits; any question pertaining to model railroading will be answered in detail. This show will be the first of its kind in the East since before World War II. Previous exhibits were highly popular and informative, but this show promises to outdo all previous work.

The show will be under the management of William S. Orkin, who produced and directed the original World Hobby Exposition in Chicago in 1948. Al Pittman is serving as Chairman of the Executive Committee.

## MONARCH COUPLERS



Available  
Through

**G.M.C. SALES & SERVICE**

Completely assembled. Operating spring latch keeps couplers locked until pins are pulled then jaws spring open!

### Couplers

- Top operated—automatic ..... pr. 98c
- Bottom operated—automatic ..... pr. 98c
- Ramp operated—automatic ..... pr. 98c
- Non-working type ..... pr. 25c

## Monarch Model Supplies

6888 N. Tonty Ave. Chicago 30, Ill.

# DIRECTORY OF "O GAGE" PRODUCTS

## STEAM LOCOMOTIVES

### 0-4-0 Switcher

Thomas

### 0-6-0 Switcher

Alexander  
Lobaugh

### 0-8-0 Switcher

Hines Lines

### 2-8-0 Consolidation

Hines Lines  
Thomas

### 2-8-2 Mikado

Hines Lines

### 2-8-4 Berkshire

Lobaugh

### 4-4-0 American

Alexander

### 4-4-2 Atlantic

General Models

### 4-6-0 Ten Wheeler

General Models

### 4-6-2 Pacific

Alexander  
General Models  
Hines Lines  
Lobaugh

### 4-8-2 Mountain

Blum  
General Models

### 2-6-6-4 Articulated

General Models

## TENDERS

Alexander  
Central Loco Works  
General Models  
Hines Lines  
Lobaugh  
Thomas

## DIESEL LOCOMOTIVES

### Alco

Central Loco Works

### EMC FT Freight

Wentzco

### E-7

Baldwin

### F-3

Baldwin  
General Models

### FM Switcher

Baldwin  
Central Loco Works

### EMC Switcher

General Models

## ELECTRIC LOCOMOTIVES

### Penn GG-1

Alexander  
Baldwin

### New Haven

Baldwin

## GAS-ELECTRIC LOCOMOTIVES

Walthers

## INTERURBANS

Walthers

## MULTIPLE UNITS

Walthers

## STREET CARS

General Models  
Pittman

## STEAM LOCOMOTIVE PARTS

### Boilers

Alexander  
Central Loco Works  
General Models  
Hines Lines  
Lobaugh  
Thomas

### Drivers, Baldwin

Central Loco Works  
Lobaugh

### Drivers, Box Pox

Alexander  
Athearn  
Central Loco Works  
Hines Lines  
Lobaugh

### Drivers, Spoked

Athearn  
Alexander  
Central Loco Works  
General Models  
Hines Lines  
Lobaugh  
Thomas

### Frames, Main

Alexander  
Central Loco Works  
General Models  
Hines Lines  
Lobaugh  
Thomas

### Miscellaneous Parts

Alexander  
Baldwin  
Central Loco Works  
General Models  
Hines Lines  
Lobaugh  
Thomas

### Trucks, Pilot & Trailing

General Models  
Hines Lines  
Lobaugh

## TENDER PARTS

Alexander  
Central Loco Works  
General Models  
Lobaugh  
Thomas

## DIESEL LOCOMOTIVE PARTS

Central Loco Works  
General Models (Atwater)  
Hines Lines  
Lobaugh  
Walthers  
Wentzco

## FREIGHT TRAIN CARS

### Automobile Cars

Alexander  
Athearn  
Walthers

# DIRECTORY OF "O GAGE" PRODUCTS (Continued)

## Box Cars, Steel

Athearn  
General Models  
Graceline  
Scale Model RR  
Walthers  
Westbrook

## Box Cars, Wood

Alexander  
General Models  
Model Master  
Stewart-Lundahl  
Walthers  
Westbrook

## Caboose

Graceline  
General Models  
Lobaugh  
Model Master  
Rail Craft  
Train Craft  
Walthers

## Flat Cars

General Models  
Graceline  
Rail Craft  
Walthers  
Westbrook

## Gondolas

Rail Craft  
Westbrook  
Walthers

## Hopper Cars

Rail Craft  
Scale Model RR  
Walthers

## Stock Cars

Amer. Model Toy Co.  
Walthers  
Westbrook

## Tank Cars

Lobaugh  
Thomas

## Reefers, Wood

Athearn  
General Models  
Lobaugh  
Scale Model RR  
Stewart-Lundahl  
Walthers  
Westbrook

## FREIGHT CAR PARTS

### Miscellaneous Parts

Alexander  
Amer. Model Toy Co.  
Athearn  
General Models  
Graceline  
Lobaugh  
Model Master  
Monarch  
Rail Craft  
Selley  
Thomas  
Walthers  
Westbrook

### Sides, Box Car

Athearn  
General Models  
Westbrook

### Sides, Flat Car

Westbrook

### Sides, Gondola

Westbrook

### Sides, Reefer

General Models  
Westbrook

### Trucks

Athearn  
Auel  
General Models  
Graceline  
Hines Lines  
International  
Lobaugh  
Scale Craft  
Thomas  
Walthers

### Wheels

General Models  
Lobaugh  
Selley

## PASSENGER TRAIN CARS

### Baggage Cars

Central Lines  
J C Models  
Walthers

### Baggage Cars, Open End

Central Lines

Great Western  
Walthers

### Baggage Coaches

J C Models  
Walthers

### Baggage Coaches, Open End

Central Lines  
Great Western  
Rail Chief  
Walthers

### Baggage-Mail Cars

Central Lines  
J C Models  
Walthers

### Baggage-Smoker Cars

Alexander

### Club-Baggage Cars

Alexander

### Coaches

Central Lines  
J C Models  
Walthers

### Coaches, Open End

Central Lines  
Great Western  
Rail Chief  
Walthers

### Diners

Central Lines  
J C Models  
Walthers

### Observation Cars

Alexander  
Central Lines  
J C Models  
Walthers

### Postal Cars

J C Models  
Walthers

### Pullman Cars

Alexander  
Central Lines  
J C Models  
Walthers

### Reefers, Express

Walthers

# DIRECTORY OF "O GAGE" PRODUCTS (Continued)

## PASSENGER TRAIN CARS, STREAMLINE

### Astradome

Kasiner

### Baggage

Central Lines

### Baggage-Club

Walthers

### Baggage-Coach

Kasiner

### Baggage-Dormitory

Central Lines

### Bedroom

Walthers

### Coach

Central Lines  
Kasiner  
Walthers

### Coffee Shop

Walthers

### Diner

Central Lines  
Kasiner  
Walthers

### Duplex

Central Lines  
Kasiner

### Kitchen Unit

Walthers

### Lounge-Cafe

Central Lines

### Lounge-Observation

Central Lines

### Observation

Kasiner  
Walthers

### Postal

Walthers

### Postal-Baggage

Central Lines

## Roomette

Central Lines  
Kasiner  
Walthers

## Sleeper

Central Lines  
Kasiner  
Walthers

## Tavern

Walthers

## Tavern-Observation

Central Lines

## PASSENGER CAR PARTS

### Trucks, 4 wheel

General Models  
Graceline  
Hines Lines  
Lobaugh  
Walthers

### Trucks, 6 wheel

General Models  
Graceline  
Hines Lines  
Lobaugh  
Walthers

### Trucks, Streamline

General Models  
Graceline  
Hines Lines  
Lobaugh  
Walthers

### Wheels

General Models  
Lobaugh  
Selley  
Walthers

## P O W E R

### MOTORS

#### DC (12v)

General Models  
Pittman

#### AC-DC (12-18v)

General Models  
International  
Kendrick & Davis  
Lobaugh  
Pittman  
Thomas

## POWER TRUCKS

### Diesel

Central Loco Works  
General Models  
Walthers  
Wentzco

### Electric Locomotive

Walthers

### Gas-Electric Locomotive

Walthers

### Powered Cars

Fixen  
Miniature Eng. & Equip. Co.  
Pittman  
Walthers

## PANTOGRAPH & CATENARY PARTS

Alexander  
Baldwin  
Columbus Railway  
International  
Pittman  
Wagner  
Walthers

## TRANSMISSION & CONTROL

### Ammeters, AC

General Electric

### Ammeters, DC

General Electric  
Gem Models  
Opad Green  
Pittman  
Scintilla

### Condensers

Opad Green  
Power Conserv. Corp.  
Scintilla

### Control Units

Pittman  
Scintilla  
Motomarine

### Converters

Model Rectifier  
Scintilla

# DIRECTORY OF "O GAGE" PRODUCTS (Continued)

## Circuit Breakers

Ajax  
Model RR Controls  
Pittman  
Walthers

## Fixed Resistors

Walthers

## Panels

Model RR Controls  
Pittman

## Power Packs

Gem Models  
Opad Green  
Scintilla  
Universal

## Pilot Lights

Model RR Controls  
Pittman

## Relays

Walthers

## Reversing Equipment

Mallory  
Walthers

## Rheostats

Hardwick  
Ohmite  
Pittman  
Scintilla  
Ward Leonard

## Selenium Rectifiers

Model Rectifier  
Opad Green  
Scintilla

## Tungar Tube Rectifier

General Electric

## Transformers

General Electric  
Model Rectifier  
Opad Green  
Scintilla  
Umpco

## Switches

Model RR Controls  
Walthers

## Voltmeters, AC

General Electric

## Voltmeters, DC

Gem Models  
General Electric  
Opad Green  
Pittman  
Scintilla

## TRACK & EQUIPMENT, SCALE

### Ballast

Model Hobbies  
Rail Chief  
Sportco

### Ballast Cement

Midlin  
Sportco

### Bumpers

Selley  
Walthers

### Crossings

Trackmaster

### Crossovers, Assembled

Tru-Scale

### Crossovers, Kits

Trackmaster

### Rail Connectors

Atlas  
Lobaugh  
Trackmaster  
Walthers

### Rail

Ajax  
General Models  
Lobaugh  
Trackmaster  
Walthers  
Westbrook

### Roadbed

Tru-Scale

### Spikes

General Models  
Lobaugh  
Model Master  
Rail Chief  
Trackmaster

### Switches, Assembled

#3 Trackmaster  
#4 Trackmaster  
Westbrook  
#6 Matco

Trackmaster  
Tru-Scale  
Walthers  
Westbrook

### Switches, Kits

#4 Trackmaster  
#6 Atlas

### Ties, Clothboard

Walthers

### Ties, Wood

Lobaugh  
Model Hobbies  
Trackmaster  
Walthers

### Tie Strip

Walthers

### Track

Gargraves  
Walthers

### Track Gauge

Model Engineering Works  
Trackmaster  
Walthers  
Westbrook

### Track Layer

Rail Chief

### Wyes, Assembled

Trackmaster

### Wyes, Kits

Trackmaster

## TRACK & EQUIPMENT, TINPLATE

### Crossings, Assembled

Bob Peare Eng. Works  
Trackmaster

### Crossovers, Kits

Bob Peare Eng. Works  
Trackmaster

### Track

Gargraves  
American Flyer  
Lionel  
Marx

### Switch, Assembled

#5 Gargraves

# DIRECTORY OF "O GAGE" PRODUCTS (Continued)

## Switch, Kit

#4 Trackmaster  
48" Bob Peare  
Scissors—60" Bob Peare

## Switches, Wye, Kits

Bob Peare  
Trackmaster

## SWITCH CONTROLS

### Electric

Diamond Mountain  
Modelectric Products  
Pioneer  
Walthers  
Webber  
Windsor

### Manual

Douglas  
Model Die Casting  
Model Eng. Works  
Trackmaster  
Westbrook

## SIGNALS, OPERATING

### Semaphore

Hawk  
International  
Walthers

### Target

Pioneer  
Walthers

### Dwarf Color Light

Alexander  
International  
Walthers

### Multi-Indication

Walthers

## Position Light

Alexander

## SIGNALS, DUMMY

Selley  
Walthers

## STRUCTURES

### Billboards

Rail Chief  
Starline

### Bridges, Trestles

Bessey  
Chester  
Raffington  
Selley  
Starline

### Community Bldgs.

Skyline

### Industrial Bldgs.

Majestic  
Rail Chief  
Skyline  
Starline  
Tru-Scale

### Misc. Farm & Station

Authenticast  
Dinky Toys  
Model RR Equip.  
Skyline  
Walthers

### Residences

Skyline  
Tower Craft  
Yank

### Stations

Skyline  
Towncraft

## Water Towers

Majestic  
Rail Chief  
Skyline

## ACCESSORIES, PAINTED

### People

Authenticast  
Tru Craft  
Walthers  
Weston

### Animals

Rail Chief  
Walthers

### Markers

Dinky Toys  
Wight

## ACCESSORIES, UNPAINTED

### Automobile Kits Miniature Truck Co.

### Foliage

General Models  
Hollywood  
Majestic  
Walthers

### People, Station Detail, etc.

Selley

### Right of Way Signs

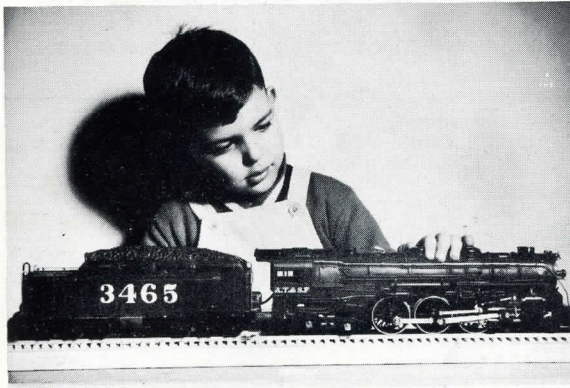
Selley  
Super Scale

## DECALCOMANIA TRANSFERS

Champion  
Walthers

## ALPHABETICAL PARTS AND PRICE LIST (Continued from page 15)

Part Name	Cat. No.	Price	Part Name	Cat. No.	Price
Weight, Lead, Auxiliary, F-3	4101	each \$ 2.50	Whistle	1125	each .08
Weight, Lead, Basic, F-3	4100	each 2.50	Wire, Hook-up, #20 x 5"	1907	foot .06
Wheel, 33", Scale, Uninsulated	1346	each .12	Wire, Hook-up, #20 x 6"	1905A	foot .06
Wheel, 33", Scale, Insulated	1347	each .15	Wire, Hook-up, #20 x 10"	1905	foot .06
Wheel, 33", Tinplate	1350	each .13	Wire, Hook-up, #20 x 14"	1905B	foot .06
Wheel, 36", Scale, Uninsulated	1576	each .13	Wire, Hook-up, #20 x 15"	1908	foot .06
Wheel, 36", Scale, Insulated	1577	each .16	Wire, .032 x 5"	1903C	foot .03
Wheel, 40", Scale, Uninsulated	2146	each .15	Wire, .032 x 6 3/8"	1903G	foot .03
Wheel, 40", Scale, Insulated	2157	each .17	Wire, .032 x 10"	1903D	foot .03
Wheels on Axle, 33", Scale, Assembled	1536	set .30	Wire, .032 x 13"	1903E	foot .03
Wheels on Axle, 33", Scale, Both Wheels Insul., Assbld.	1536E	set .35	Wire, .032 x 14"	1903A	foot .03
Wheels on Axle, 33", Tinplate, Assembled	1535T	set .30	Wire, .032 x 15"	1903F	foot .03
Wheels on Axle, 36", Scale, Assembled	1635	set .30	Wire, .032 x 60" (5')	1692	foot .03
Wheels on Axle, 36", Tinplate, Assembled	2152	set .30	Wire, .062 x 11 1/2"	1904	foot .04
Wheels on Axle, 40", Scale, Assembled	4024	set .35	Worm Assembly, Atlantic - Pacific and Ten Wheeler	1696	each 1.00
Wheels on Axle, 40", Tinplate, Assembled	2153	set .25	Worm, Atlantic - Pacific and Ten Wheeler	1639	each .75
			Worm, Power Transmission	4051	each .50
			Worm, 4 Tooth, 40 Pitch	1735	each .75
			Worm Gear, 30 Tooth, 40 Pitch	1736	each .75
			Yoke, Truck, Trailing, Atlantic	2117	each .35
			Yoke, Truck, Trailing, Pacific	2117P	each .35

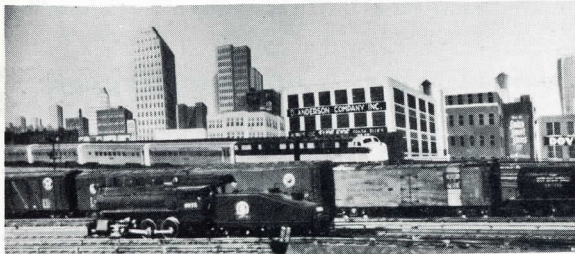
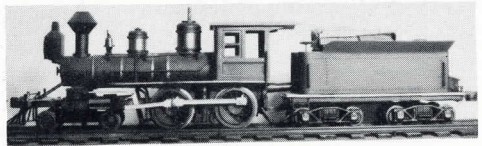


# ALONG THE *G.M.C.* "MAIN LINE"



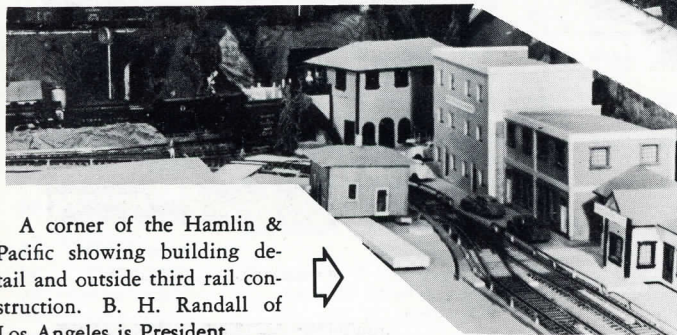
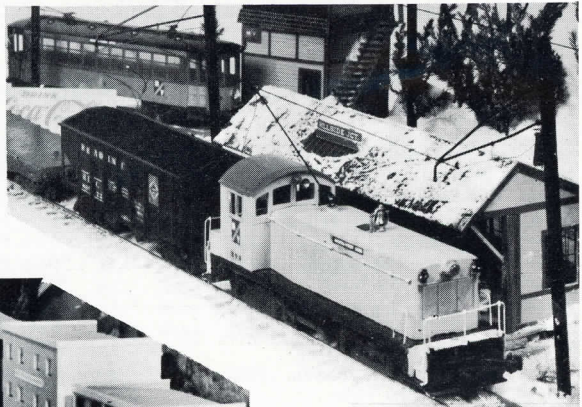
Six-year-old Georgie Laskar of Albuquerque, New Mexico, with his Lionel "Hudson." Georgie has a complete layout in tinplate, and dad tells us that he's a first-rate engineer.

Dr. Case Kowal of Chicago sends in this shot of his 1/4" scale 4-4-0 "American." An old timer that operates on 2 rail.



The LeClear St. yards of the Lake Shore & Michigan Southern. Spartan Limited (Powered by Atwater-GMC) just leaving station. Jack De Camp of East Lansing, Michigan, at throttle.

The Mason-Vixen lines of Holland, Michigan, utilizes a GMC Diesel Switcher which has been "electrified." Layout is part of a public display at hobby show. R. K. Mason is brass hat on this line.

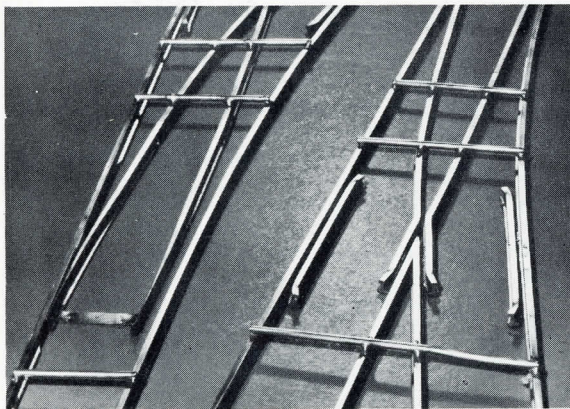


A corner of the Hamlin & Pacific showing building detail and outside third rail construction. B. H. Randall of Los Angeles is President.

Readers are urged to send in photos of their layouts and equipment. Model railroaders are interested in the other fellow's layouts, rolling stock and locomotives.



# SWITCHES FOR SCALE AND TINPLATE



Scale switches made up of .172 NMRA brass rail, held in position by brass straps soldered to tops of rails to facilitate mounting on any surface or tie pattern. Straps hold rails to correct gage and are removed with soldering iron or pliers after switch is spiked down. Available in 4's, 6's, 8's, Wyes and Stubbys. Many Stubbys in a yard add to realism and operating characteristics of any layout. Stubbys are smaller than a No. 4 switch, but have a 48" radius to handle the "Big Jobs."

## MATCO Scale Switches

Stubbys	
Catalog #2097 R or L	\$1.95
No. 4 Switch	
Catalog #2098 R or L	2.25
No. 4 Wye	
Catalog #2098 Y	2.25
No. 6 Switch R	
Catalog #2100	2.30
No. 6 Switch L	
Catalog #2101	2.30
No. 6 Wye	
Catalog #2100 Y	2.50
No. 8 Switch	
Catalog #2099 R or L	2.75
No. 8 Wye	
Catalog #2099 Y	2.75
No. 6 Switch Points	
Catalog #2122, Set	1.00
No. 6 Frog Assembly	
Catalog #2123, Set	1.00

BRASS RAIL, .172 NMRA,  
3 ft. lengths, 6 $\frac{1}{2}$  foot,  
Catalog #2170 ..... Per 100 ft. \$5.50

SPIKES, blue steel, square,  
serrated and oxidized,  
Catalog #2206 ..... Per ounce .50

Available Through

**G.M.C. SALES & SERVICE**

## Bob Peare

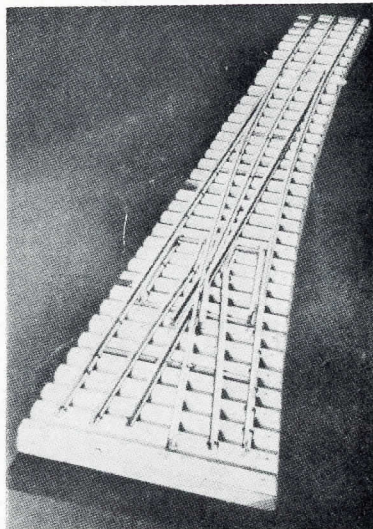
### INSIDE THIRD RAIL SWITCH

Engineered to match Lionel or Gargraves track. Switches come in kit form and include ties, fishplates, rail, spikes, template and instructions. Switches have 48" radius which permits greater speed without tipping.

48" Radius Switch, R or L	\$ 4.50
48" Radius Wye	4.50
Single Crossover kit, 4" track centers	9.75
Scissors Switch kit, 60" radius	19.50

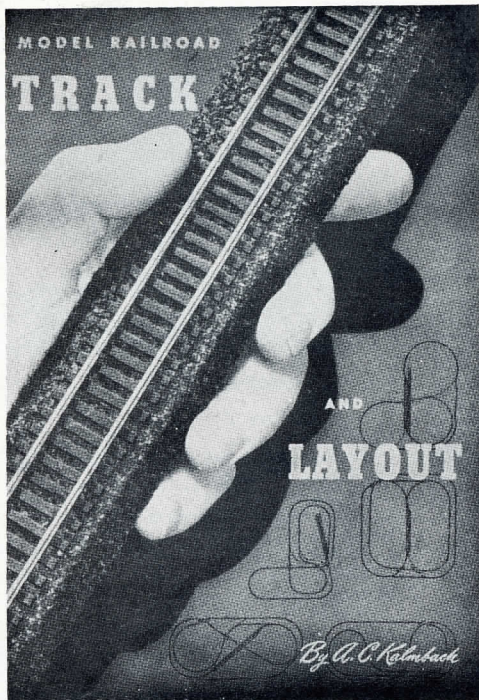
### BUILT UP CROSSINGS

90 degree crossing	\$6.00
45 degree crossing	6.50
60 degree crossing	7.00
30 degree crossing	8.50



AVAILABLE THROUGH

**G.M.C. SALES & SERVICE**



## MODEL RAILROAD TRACK AND LAYOUT

by A. C. KALMBACH

Acclaimed "The Leading Reference Book On Planning and Constructing Model Railroad Layouts," this book well deserves its praise. It is a practical guide, designed to make the planning of track work a comparatively easy task. Based on the valuable experience of the author and other men who have successfully taken the "kinks" out of their layouts, this book will save you costly errors. It enables you to incorporate originality and individualism in your layout and yet maintain the essentials of good model railroading.

The contents include planning layout; yards, terminals and junctions; use of prototype layouts as applied to models; wiring of three- and two-rail systems; track, benchwork and switches; many practical layout plans; informal tips and shortcuts. 104 pages, 33 photographs and 142 drawings. Heavy paper cover printed in four colors. Special binding to allow book to lay flat for easy reference while doing benchwork.

Postpaid .....\$2.00

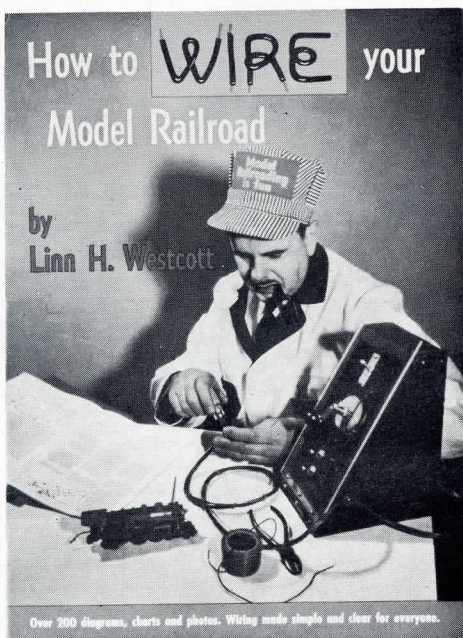
## HOW TO WIRE YOUR MODEL RAILROAD

by LINN H. WESTCOTT

The foreword of this book explains why it was written. Actually written twice, the first draft proved to be too advanced, assumed too much electrical knowledge on the part of the average model railroader. The second draft, the one offered here, was written from scratch and directed to the railroader, not the electrician. Easily read, the model railroader can digest as little or as much information as he wishes, returning to various chapters when he feels he is in need of further information.

Breaking down the table of contents, the reader will find complete, yet not confusing knowledge of realistic control; what is needed to operate; power sources; speed control; direction control; wire; track wiring; turnouts; wyes; how to find turning tracks; crossings and fancy trackworks; feeders and installation; locomotive wiring; switch machines; trouble shooting, multiple control; terms and symbols. 60 pages, 10 photographs, 187 drawings. Heavy paper cover printed in 4 colors. Schematic wiring diagrams in two colors.

Postpaid .....\$1.75



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Through

**G.M.C. SALES & SERVICE**

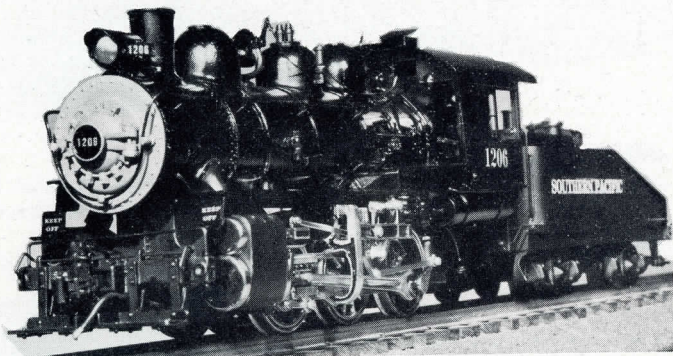
# LOBAUGH'S 0-6-0 SWITCHER!

ACCURATELY REPRODUCED IN "O" GAGE  
FROM SOUTHERN PACIFIC DRAWINGS

COMPLETE KIT  
WITH  
SLOPE BACK OR  
VANDERBILT  
TENDER

**\$67<sup>50</sup>**

FOB San Francisco

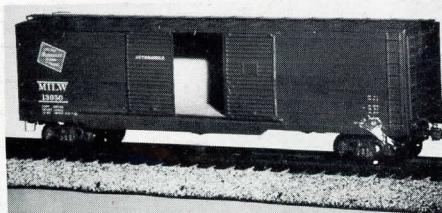


The LOBAUGH 0-6-0 switcher is the ideal locomotive for yard service. It is small, yet powerful. Will take a 30" radius, saving considerable space on curves and making small layouts a possibility in "O" gage.

All machining operations are complete so that the locomotive may be built with the hand tools as are usually found in the basement workshop. Where detail is missing on other model locomotives LOBAUGH has it. Lost wax process is used in the German silver and yellow brass castings

where fine, super-detailing of parts is needed. The bell is full working, with tiny clappers; smoke-box front opens on hinges; headlights are hollow, with illuminated number boards; cylinder block has all details; simplex injectors and power reverse are complete to the last detail. 57" drivers, fully sprung for maximum traction, are cast iron with steel tires on insulated side; balance of material is made from sheet brass or screw machine parts. Pittman AC or DC #94 motor is optional. Standard SP decals are supplied.

## NEW AND DIFFERENT !!!



40' Box car kit ..... **\$8.75**

50' Auto car kit ..... **9.75**

## THE MILWAUKEE BOX AND AUTO with RIBBED SIDES

Add variety to your freight train with the new MILWAUKEE box or auto car with ribbed sides. All metal; built over a wooden box for stability. Has sliding doors. Fully sprung trucks, with bronze side frames for this car only.

*Designed by Model Railroaders for Model Railroaders.*

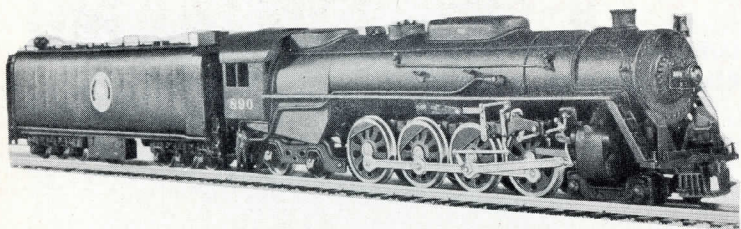
We are now working on two more locomotives and several more cars, but because approximately 50% of the production of our plant is devoted to war work, we do not know when they will be ready. We feel, while model railroading is the greatest hobby in the world, defense of our country comes first.

## ROLLIN J. LOBAUGH

*Standard of the World in O Gage*

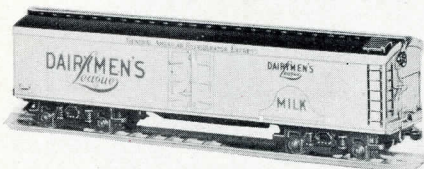
566 S. VAN NESS AVE.  
SAN FRANCISCO, CAL.

# SCALE-CRAFT O GAGE



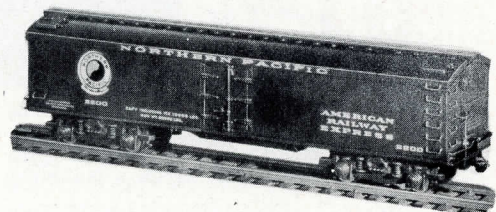
Available on October 1, the new Scale-Craft 4-8-4 will feature sprung drivers, Baker or Walschart valve gear and Laird or Alligator cross-heads. Tender designed for ready use of oil or coal

as fuel. Powered by K & D Universal motor. Soldered superstructure included.



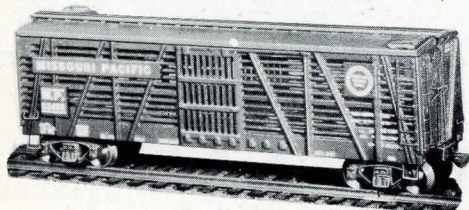
Milk Tank Car used essentially as a passenger train unit. Lading carried in two large glass-lined tanks with refrigerator unit between them, eliminating need of ice hatches. Rides on 4 wheel passenger trucks and carries signal hose. Choice of decals.

**OP-113—Milk Tank Car Kit ..... \$7.95**



Express Refrigerator Car used for rushing perishables to destination at passenger train speeds. Design features accurately machined wooden roofs, sides, ends, floors and metal doors. Working buffer at each end of car. 4-wheel roller bearing passenger trucks. Choice of decals.

**OP-112—Passenger Express Refrigerator Car Kit ..... \$7.95**



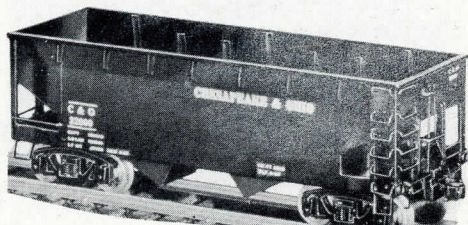
Stock Car for carrying livestock to the packing centers of the nation. Cast aluminum sides and ends. Wood roofs and floors. Die-cast underframe and stamped metal hardware. Choice of decals.

**OF-135—Stock Car Kit ..... \$6.50**

50 Ton Hopper Car for coal, ore, gravel and other granular lading of great weight. Underframe, two sides and two ends are aluminum castings. Usual hardware included. Available in either plain or offset (illus.) sides. Black or red paint. Choice of decals.

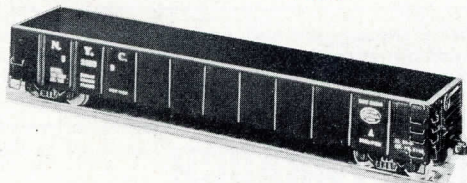
**OF-134—50 Ton Hopper Car Kit, Plain Side ..... \$6.50**

**OF-137—50 Ton Hopper Car Kit, Offset Side ..... 6.50**



70 Ton Gondola, a 50 footer for carrying coal, gravel and scrap metal. Also used for commodities too large for any type box or house car. Aluminum castings. Red or black paint. Choice of decals.

**OF-136—70 Ton Gondola Car Kit,**



*Paint, Decalcomanias and Trucks Are Included in All Scale-Craft Kits*

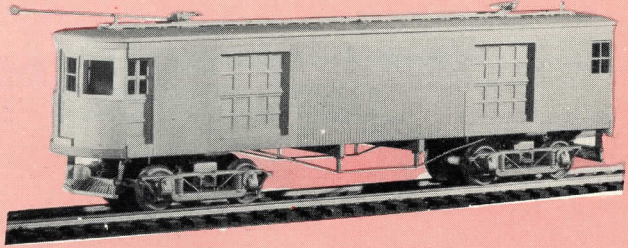
## SCALE-CRAFT & COMPANY

ROUND LAKE, ILLINOIS

Ask the old timers -  
they'll all tell you

# PITTMAN

is the line you  
can depend on!



Pittman's Freight Motor Body Kit No. 510-1

*trolleys*

for realism — for detail  
for small space — for FUN

Here are the reasons why so many model railroaders, new and old, are switching to O gauge trolleys and the Pittman line.

O gauge trolley layouts are realistic. In a small space — less than that needed for O gauge steam — you can have a complete layout with true-to-life operation.

O gauge trolley layouts are low cost. Pittman kits are priced to fit your budget, and yet give a lifetime of service.

O gauge trolley layouts are authentic. Every Pittman item is fully detailed, and looks and acts like the real thing.

O gauge trolley layouts are easy to set up and keep in operation. The Pittman name is your assurance of trouble-free performance.

Whether it's scale, semi-scale, or toy operation, Pittman has a complete line for you: passenger and freight kits, Erect-a-Wire (the amazing new system of trolley poles and overhead wire), power and trail-

ing trucks, trolley poles, trolley frogs, and a long list of electrical accessories.

Look at O gauge traction, and look at Pittman for the best in it!

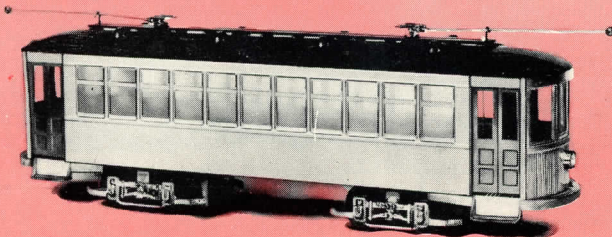
### HERE'S THE COMPLETE PITTMAN TROLLEY LINE

No. 510-1—Freight Motor Body Kit.....	\$ 7.95
No. 510-2—Trucks (less motor), 8-wheel drive	10.25
No. AC510 or DC 510—7-pole motor for above	6.75
No. AC209 or DC 209—Power Truck and Trailer, 4-wheel drive .....	11.95
No. 501-1—Trolley Body Kit .....	5.95
No. AC207—Trolley Truck and Trailer (for toy track) .....	9.95
No. AC208—Trolley Truck (for scale track)....	11.95
No. DC203—Trolley Truck and Trailer (under-floor, scale) .....	14.95
No. DC204—Trolley Truck and Trailer (under-floor, scale) .....	14.95
No. 75-26—Full-Working Trolley Pole .....	.75
No. 20-129—Trolley Frogs (for scale use only) pkg. of 2 .....	.15
No. 75-31—Erect-a-Wire (single arm pole)....	.35
No. 75-32—Erect-a-wire (double arm pole)....	.45
No. 20-136—Extra Hanger Clips for Erect-a-wire (pkg. of 6) .....	.50
No. 050—Erect-a-Wire (brass) (pkg. of 10—3' lengths) .....	.75

ASK YOUR DEALER—  
HE KNOWS ABOUT

# PITTMAN

Electrical Developments Co.  
Distributor Sales Division  
123 W. Main St., Kutztown, Pa.

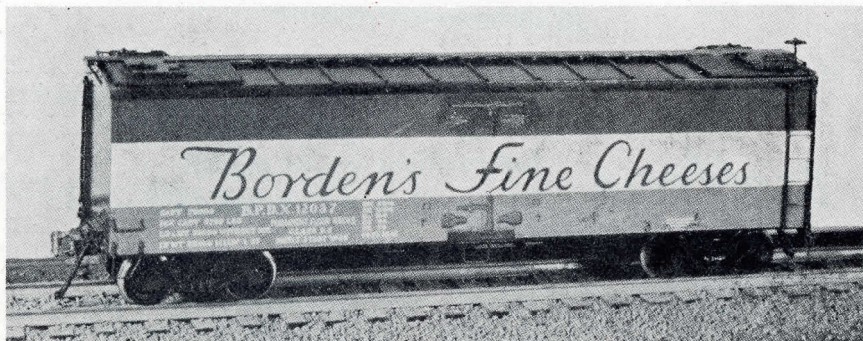


Pittman's Trolley Body Kit No. 501-1

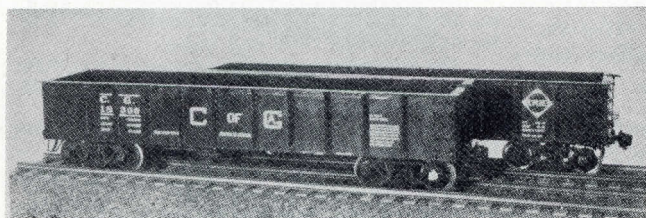
# WESTBROOK

Standard Of Quality In O Gage Since 1934

## TINPLATE CAR KITS



COMPLETE tinplate car kit—designed right—built right—authentic in every detail. Nothing else to buy. Tinplate trucks and dummy knuckle couplings that match Lionel equipment included. 50-Ton Steel Box Cars; Automobile Car; Wood Sheathed Cars; Refrigerator Cars. Variety of road markings \$395 available. Priced at only

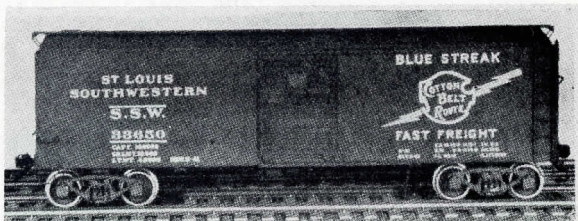


Complete gondola car kits available in six great road names, include tinplate trucks and dummy knuckle couplings to match Lionel.

Only \$345

Accurate, detailed body boxcar kits include pair of finished car sides and car ends, painted, lettered and scored. Milled roof of seasoned basswood—floor and ends also seasoned basswood. False sides 1/8" seasoned basswood. Grooved wooden roofwalk. Material for all appointments. Pins, nails, etc. 60 different road names. Less trucks and couplers

\$150



## WESTBROOK CAR CO.

P. O. Box 286, Clifton, N. J.

Subsidiary of Bob Peare Engineering Corp.

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Ordering by mail is fast, economical, dependable, and SIMPLE. There are a few simple steps which you should follow to ensure receipt of desired merchandise. These steps are:

1. Please print or write the name and address plainly.
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4. Make checks, postal notes, bank drafts and money orders out for the correct amount. (If you live in Illinois, add 2% for sales tax. If your order is for less than \$5.00, add 10% to cover postage.)

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Upon filling of an order for you, enclose another order blank so that you may conveniently re-order in the future.

We will pay postage and insurance charges on all shipments of \$5.00 or more with the exception of brass rail. Brass rail, will be shipped to you, C.O.D. for shipping charges.

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Where we are out of stock, we will notify you, and advise you of shipping date. If this date is not satisfactory, your money will be refunded.

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## GENERAL MODELS CORPORATION WEST CHICAGO ILLINOIS

DATE: SEPTEMBER 7 1950

Please print or write name and address plainly

Please do not write anything in this Space

Name JOHN J. DOE  
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Street Address 123 MAIN ST.

City ANYTOWN Zone 4 State ILL

IF YOU HAVE MOVED since receipt of your catalogue, service bulletin or your last order, please give your old address here:

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Catalog Number	How Many	NAME OF THE ITEM	Specify Uses		PRICE Each	TOTAL Add This Column
			Scale or T/Inplate	AC or DC		
3632	1	B&O "SENTINEL" Box CAR KIT	SCALE		3.95	3.95
3621	2	UNION PACIFIC BOX CAR KITS	SCALE		3.50	7.00
3800	3	ANDREWS FR. TRUCK KITS	SCALE		1.10	3.30
2100	1	#6 SWITCH - RIGHT	SCALE		2.30	2.30
5020	1	#6 TRU-SCALE SWITCH BLOCK	SCALE		1.20	1.20
2206	103	RAIL SPIKES	SCALE		03 .50	.50

Enclosed please find POSTAL MONEY ORDER  
(Type of money order)  
to cover the items listed above. Please ship these to me as instructed above.

Total amount of order 18.25  
Amount for TAX (Ill.) .37  
Total Amount Enclosed 18.62

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Instituted for the convenience of customers, these plans are just two more of the many ways in which GMC is attempting to give the best of service. Recognizing the fact that, on occasion, ready funds are not available to purchase items which are needed, GMC makes available the following services.

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The GMC Lay Away Plan has been operating on an informal basis with individual customers at their specific request. Due to the large number of requests processed, it has been necessary to standardize the procedure. Under the Lay Away Plan you may purchase any and all merchandise sold by GMC Sales & Service without incurring any carrying or service charges. When ordering, state that you wish to purchase the item or items on the Lay Away Plan, pay any amount down that you wish, and advise us as to when the balance will be paid. Upon full payment of the balance, your merchandise will be shipped to you.

In the event that you change your mind and decide against completing your purchase, simply notify us and your money will be refunded, less 10% of the amount paid, which is retained by us and applied against the cost of carrying your account.

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The GMC Time Payment Plan is designed to aid you in making purchases of higher priced items without causing any undue hardships on your budget. It is set up in such a manner so as not to penalize you in any way, but at the same time to partially absorb some of the costs of setting

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For this reason, it is necessary to adjust the prices of merchandise purchased on the Time Payment Plan by the addition of a small carrying charge. This is the type of operation employed by the larger mail order firms. Most of our readers are no doubt familiar with this type of merchandising.

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All new order blanks from General Models contain time payment information and a conditional sales contract on the reverse side. Simply fill out the requested information, sign your name, enclose the specified down payment and, upon approval of our credit department, the merchandise will be shipped to you. All current Time Payment purchases are handled on an amount-down basis and the balance in three monthly payments. Throughout the Catalog Section of this month's O-GAGER you will find the Time Payment terms for each item on the same page.

## GROUP PURCHASES UNDER TIME PAYMENT

In addition to items for which specific down payments and monthly payments are set up, as shown later in this article, provision has been



made to allow purchases of miscellaneous items, called "Group Purchases." For example: You may wish to purchase some box cars, reefers, road bed, switches, rail or any other of the items sold by GMC Sales & Service. By grouping them into one purchase of \$20.00 or more, the GMC Time Payment Plan may be used. Those items which are available on the Plan are listed below with the down payment and the three equal monthly payments:—

Item	Down Payment	Monthly Payment
Articulated Locomotive .....	\$50.00	\$27.50
B & O Ten Wheeler .....	17.00	9.35
Atlantic Locomotive .....	17.80	9.80
Pacific Locomotive .....	22.00	12.10
Mountain Locomotive .....	29.00	15.95
F-3 A Dummy .....	10.30	6.35
F-3 A 4 wheels powered .....	15.20	8.35
F-3 B Dummy .....	9.40	5.50
F-3 B 4 wheels powered .....	14.70	8.10
F-3 B 8 wheels powered .....	17.80	9.80
Diesel Switcher, 4-wheels powered	9.40	5.20
Diesel Switcher, 8-wheels powered	12.00	6.60
Diesel Switcher Train Set .....	19.80	10.90
F-3 A Train Set .....	23.80	13.10
Ten Wheeler Train Sets .....	26.00	14.30
\$20.00 Group Purchase .....	8.00	4.40
\$25.00 Group Purchase .....	10.00	5.50
\$30.00 Group Purchase .....	12.00	6.60
\$35.00 Group Purchase .....	14.00	7.70

In figuring payments for Group Purchase in amounts other than those shown, merely take the next smaller group amount (shown above) under the total of your purchase; add to the specified down payment for this amount the difference between your TOTAL purchase and the group amount. The three equal monthly payments will remain the same. For example: Your total purchase amounts to \$27.70. The next lower Group Purchase is \$25.00. Subtracting the Group Pur-

chase (\$25) from your total purchase (\$27.70) leaves \$2.70. This amount is added to the specified down payment of \$10.00 for \$25.00 Group Purchases, making your down payment \$12.70. The monthly payments will be \$5.50.

In the same manner, the list can be used in any combination to figure Group Purchases of more than \$35.00. Example: Your purchase amounts to \$48.75. By adding together the \$20 and \$25 Group Purchases you have \$45.00, leaving a difference of \$3.75 from your total purchase. This \$3.75 is added to the combined down payments for the \$20 and \$25 Group Purchases (\$10 and \$14) making a total down payment of \$27.75 and three monthly payments of \$8.50 each.

### HOW TO ORDER BY MAIL

It's not difficult to order by mail. Keep this handy check list for reference when sending in your orders:—

- Print name plainly. Show full address and postal zone.
- Order by name of item and Catalog Number.
- Return address on envelope.
- Check, postal note or money order for correct amount. If you live in Illinois, add 2% for Sales Tax. If your order is for less than \$5.00 add 10% to cover postage.
- Specify AC-DC or DC on order.
- Specify Scale or Tinline on order.

Follow these few simple rules and your order will be expedited.

**NOTE: GENERAL MODELS  
PRICES AS QUOTED IN  
THIS CATALOG ARE  
SUBJECT TO CHANGE  
WITHOUT NOTICE**

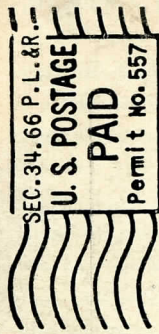
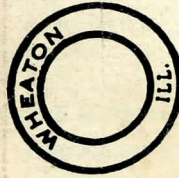
# GENERAL MODELS CORPORATION



*"Transportation in Miniature"*

P.O. BOX 66

WHEATON, ILLINOIS



## BASIC FOLIAGE MATERIAL KIT

Illustrated above is the GMC Basic Foliage Material Kit. The generous supply of famous Norwegian Lichen, Lycopodium and miniature flowers will add tremendously to the realistic effect on your model layout. Use the materials to make trees, bushes, cactus, small plants, underbrush and other foliage. Also makes excellent decorations for centerpiece and mantelpiece. Assorted shades of green, brown and natural moss.

POSTMASTER—If addressee has moved and new address is known, notify sender on Form 3547 postage for which is guaranteed.

Third Class Matter  
Postmaster: This parcel may be opened for postal inspection if necessary. RETURN POSTAGE GUARANTEED

CATALOG #5100 — **\$1.25**