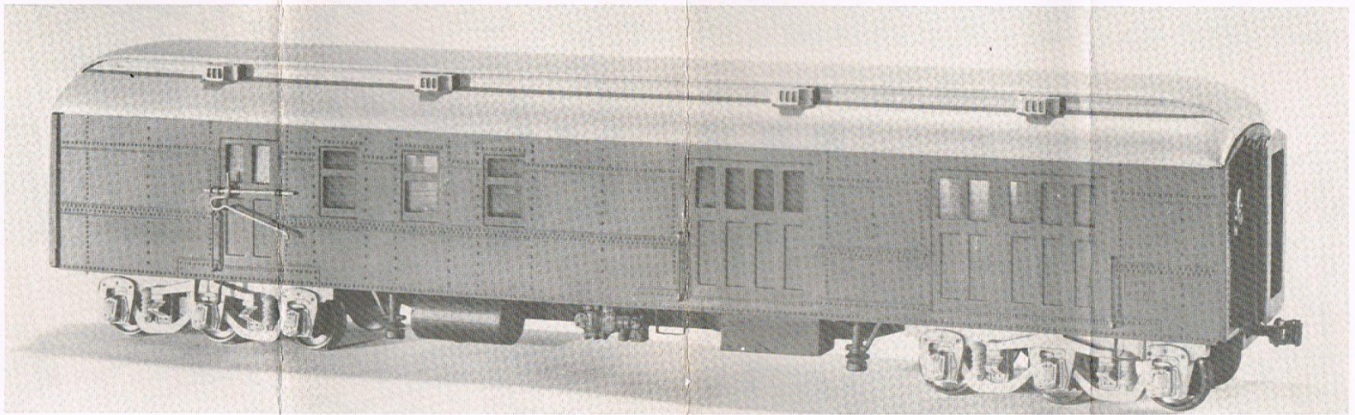


# ALL-NATION LINE

## 'O' GAUGE PASSENGER CAR KITS



### INSTRUCTIONS FOR ALL NATION'S MAIL BAGGAGE AND BAGGAGE CAR KITS

Please read the following instructions thoroughly before starting construction to familiarize yourself with the procedure. The result will be beautiful car even for the beginner. The construction of the car is such that the roof is removable, which will allow you to super-detail the interior. The required tools are: razor saw, small screw driver, long nose pliers, shears, file, sand paper and we recommend Super Cement & Walthers Goo. Clean all flash off the castings before starting construction.

#### FLOOR

For baggage and baggage mail cars take floor #5042 and draw line down center of floor bottom along the entire length. Take a square or T square, making sure that one end edge is square to the side edge of floor, and trim if necessary. Measure car sides as marked "A" on drawing. Take same measurement from end of the floor and mark, then subtract 1/16" as this will allow the sides to fit into the slot on the metal ends #5032. Take square or T square and draw this line across floor and cut off. Now we proceed with marking for the wood blocks #5039. See Figure #1 for placement of these blocks. Measure "B" on the metal sides, then mark lines across the top of the floors. Now measure 4 7/8" from each end and drill a hole with #20 drill for screw #C-1808 used to fasten down roof.

blocks to floor #5042 as shown in drawing using brads from bottom of floor for sturdier construction. Make sure it is square to floor. Cut brace strip #5049 to the exact length of floor. Cement in place to end blocks #5039 as per drawing. Set aside and let dry thoroughly. When cement has set, trim floor #5042 and brace #5049 for clearance of baggage and mail doors and steps #3060 as shown in Figure #3, "C" being the measured width of doors.

#### SIDES

If you are planning interior detailing, we suggest you use Stratmore or Bristle board paper for inside wall. Lay side on same and outline windows. Cut windows out with Xacto knife or any sharp knife and trim the width so that it will fit in between floor #5042 and brace strip #5049 so the windows line up with metal side windows. This is then painted to your desire and Gooed in AFTER body is painted and window glass #5050 has been Gooed in. There are interior details such as seats, wash basins, etc. available by W. K. Walther and Wagner. (See listing in our catalog).

#### UNDERBODY

Sand all wood parts before cementing. Bevel main underframe #5043 as shown in Figure #4. Cement down center line making sure that the underframe is centered from each end of the floor. For cross brace #5044 measure "D" from underframe #5043 to edge of floor #5042 as shown in Figure #4. With this measurement cut four pieces and bevel as shown. Cement them in places as shown in Figure #5. Cement tanks #5045 and #5046, boxes #5047 and #5048, AB brake sets #1698A, as shown in Figure #5. Drill #48 hole for steam traps #5034 and cement them in place as shown in Figure #5.

#### METAL ENDS

Clean out slots shown in Figure #6 by deepening with razor saw and file away any of the lugs on the back side of end so that it will not interfere with floor #5042 and brace strip #5049. Be sure not to go too deep. Goo metal ends #5032 to floor and brace strip and fasten with screw #C-1801 as shown in drawing making sure bottom edge of end is flush with bottom of floor. You may have to file the sides of the end to narrow them so they will not be wider than the roof. Now attach brake wheel and housing to both ends of car.

#### ROOF

Cut roof to length of body and allow 1/16" overhang over ends #5032. Measure for the end blocks and cut away the strip on the underside of roof as shown in drawing. File top of metal ends #5032 to fit under side of roof snugly. Form the roof ends to the same shape as shaded portions shown in Figure #7. Do this with wood rasp, file and sandpaper working slowly and carefully so as not to leave deep marks. Trim clerestory overhang as shown in Figure #8, using 1/16" square strip. Shape and cement in place to form continuation of the clerestory. Sand roof carefully with fine sandpaper and apply two or more coats of wood sealer (All-Nation) allowing to dry thoroughly and sanding after each coat for a smooth finish. File the ventilator casting #5033 with a bevel rear edge as shown in Figure #9. Cement into the side of the clerestory as shown in drawing. Drill a 1/8" hole 5" from each end of roof about 1/8" deep for the screw #C-1808 used in fastening to body.

#### HANDRAILS

Temporarily lay car side on body and if it does not lay flat, trim the edges just a fraction of an inch until it does. Mark for handrails as shown in Figure #1 with Xs and Figure #12. Drill holes with a #72 drill. Form handrails from .025 brass wire as in drawing. Also use the same wire to make rain gutters on roof as shown on mail baggage see Figure #10 for making of mail bag catcher using .032 wire and form with long nose pliers as per drawing. Drill a #72 hole on each side of door and put in #301 eyelets to hold catcher. Suggest you solder same to eyelets. The other side is followed the same way. Now put finished bag catcher aside and we will put this on after side is attached. Sides are now ready to be attached to body. Goo the edges of floor #5042, end blocks #5039 and brace strip #5049 and lay side to mark area touching Goo. Now remove and put layer of Goo on the marked area, and another layer on the wood as mentioned. Let set for about 5 to 10 minutes. Then press on side making sure that the top edge of metal car side is flush with the top edge of brace strip #5049. Attach handrails in holes previously drilled.

#### FINISHING TOUCHES

File coupler bracket on the bottom of the metal end #5032 about 1/16" as shown in shaded area of Figure #11. This will make the coupler the specified coupler height. For additional exterior detailing we have sketches on the back of these instructions for the individual who wants something a little different. Suggest that you paint the body and roof before proceeding any further. We recommend spray painting with All-Nation Lacquers. Most railroads usually painted their card Pullman Green or Coach Green sides and ends, with black underbody and black or dark grey roof. Now add your windows by Gooing the same way as was done with the sides so as not to smear the windows. Fasten coupler #1591 with a washer #C-2028 in between coupler and floor with screw #229-A. Diaphragms #508 and plates #509 are now attached to metal ends #5030 with Goo. Be careful when fastening diaphragms so as not to interfere with couplers on mail baggage car and mail bag catcher (painted black). Fasten down the roof with screw #C-1801. Attach trucks (either All-Nation new ACF 4 wheel or 6 wheel passenger trucks). You should now have a car to be admired on any layout.

BEFORE STARTING CONSTRUCTION R

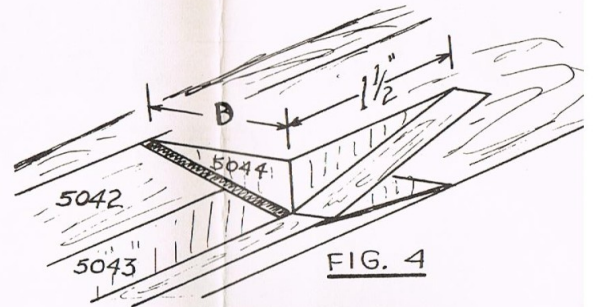
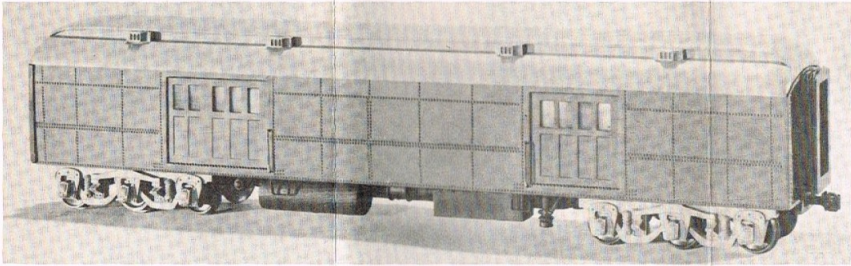


FIG. 4

# ALL-NATION LINE

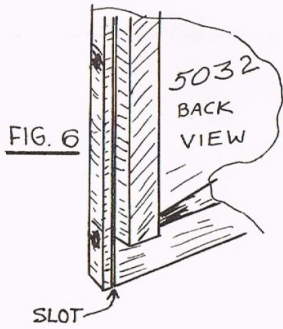


FIG. 6

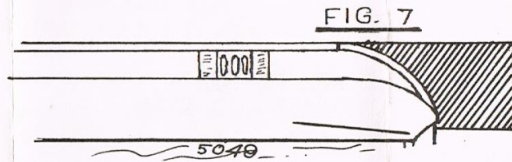


FIG. 7

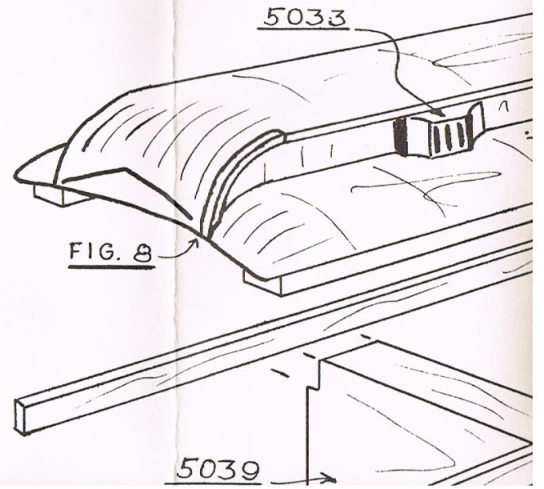


FIG. 8

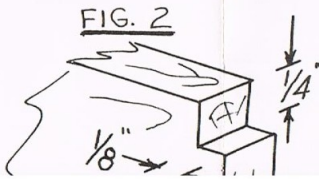
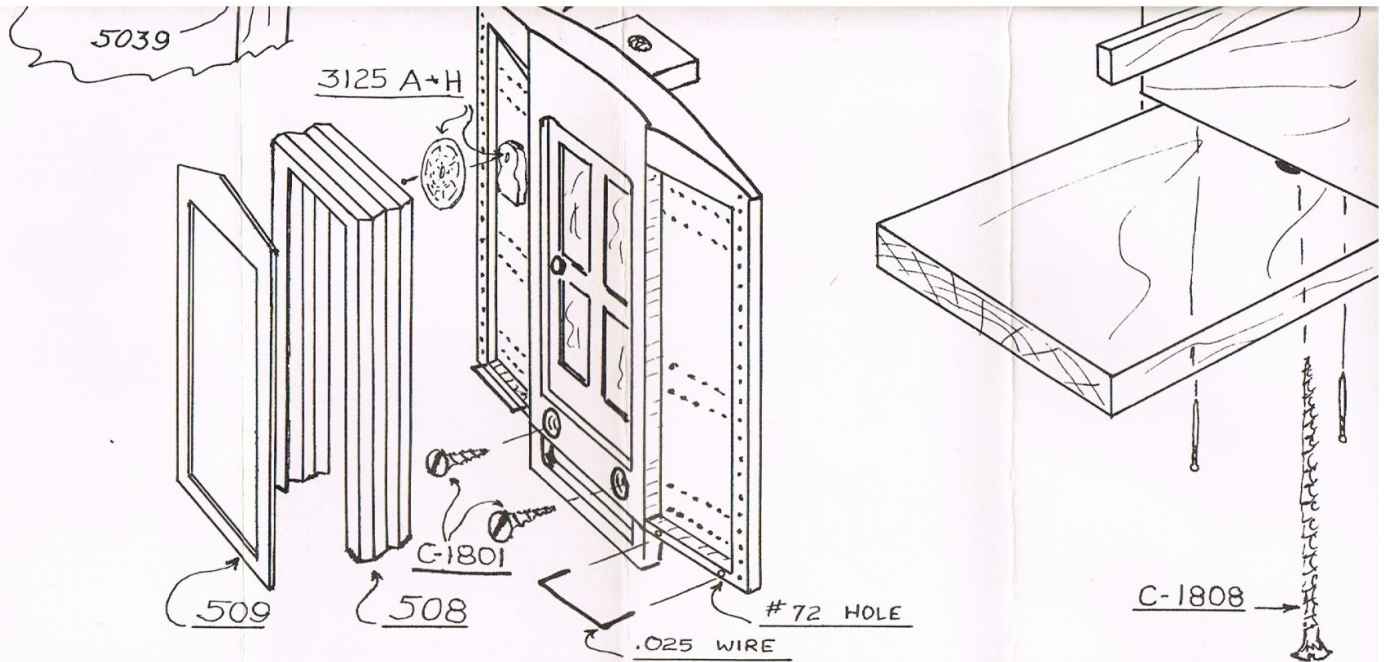


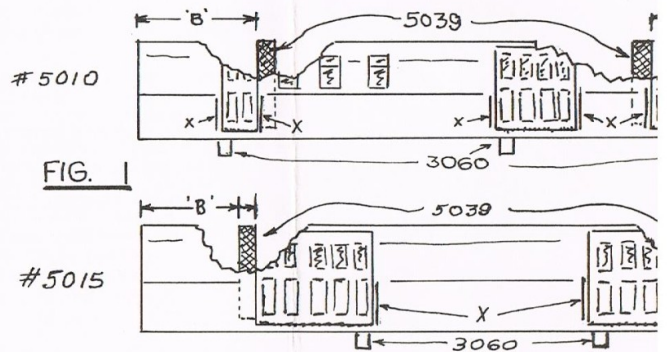
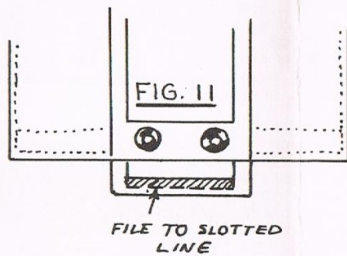
FIG. 2

5032

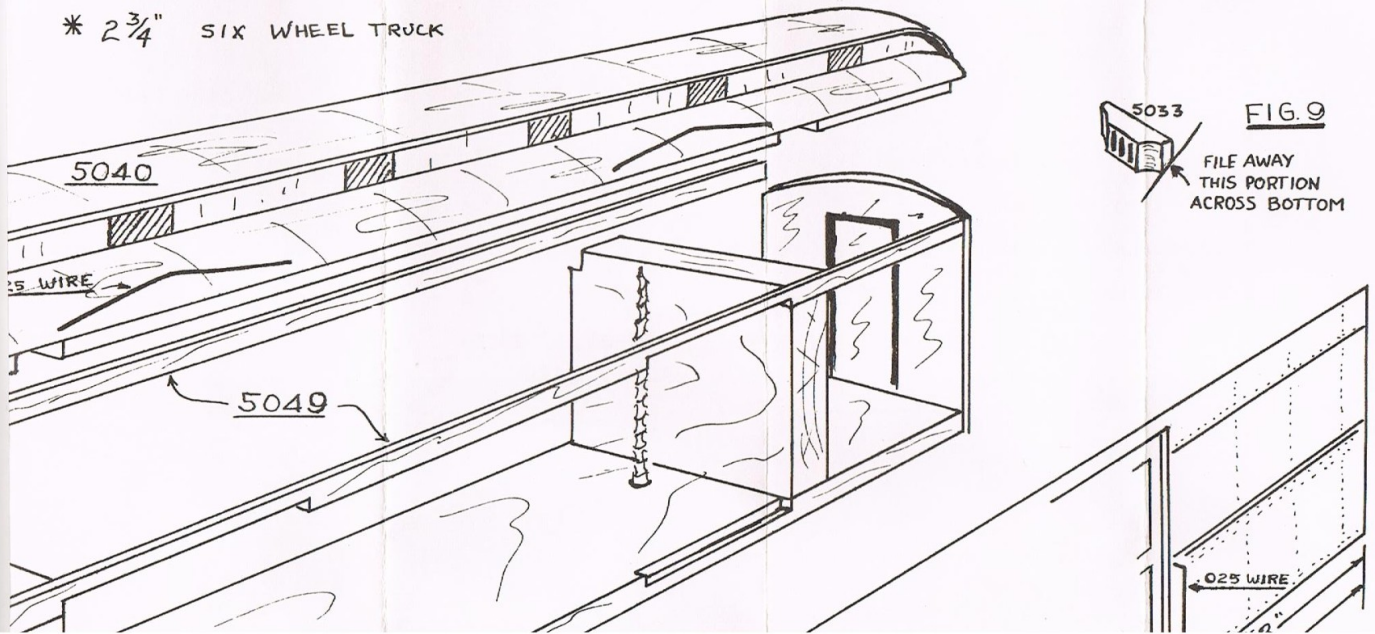
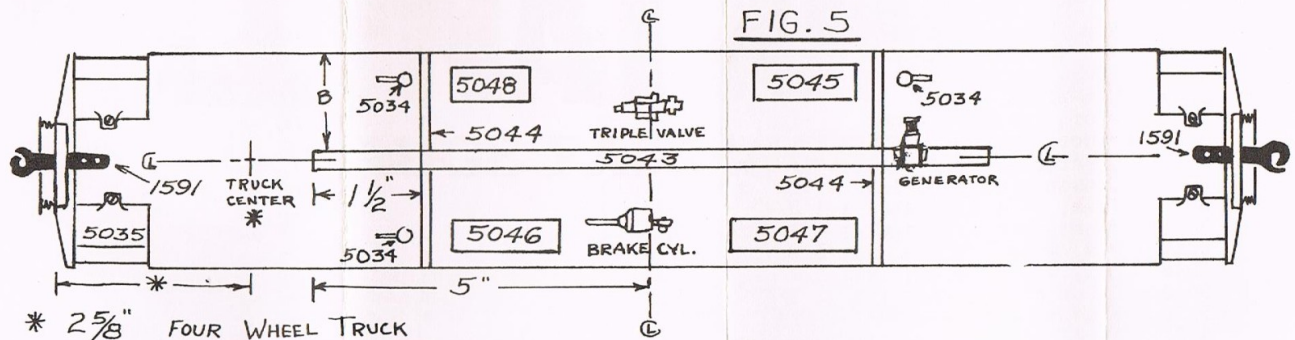
5039



INSTRUCTIONS FOR  
 #5010 MAIL BAGGAGE  
 #5015 BAGGAGE



# READ INSTRUCTIONS THOROUGHLY



5010 BAGGAGE MAIL

5015 BAGGAGE

12-30-58

"A"

"B"

#72 HOLE

.025 WIRE

3060

FIG. 3

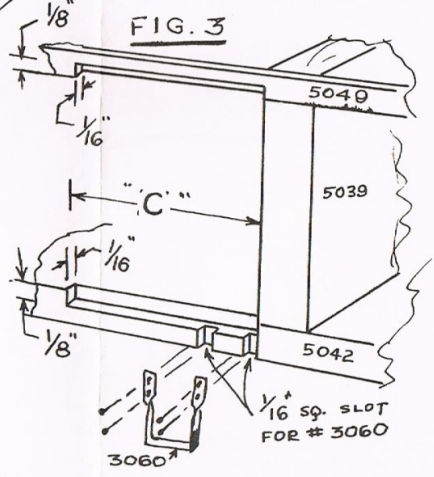


FIG. 12

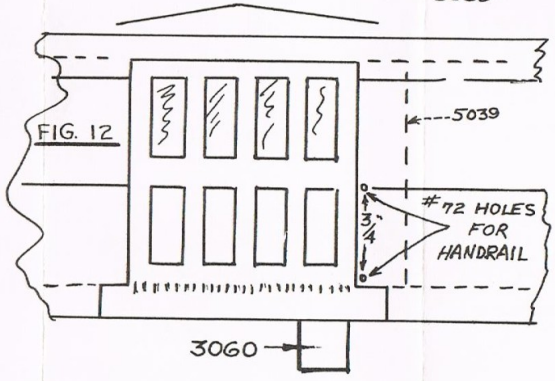
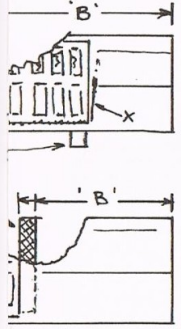
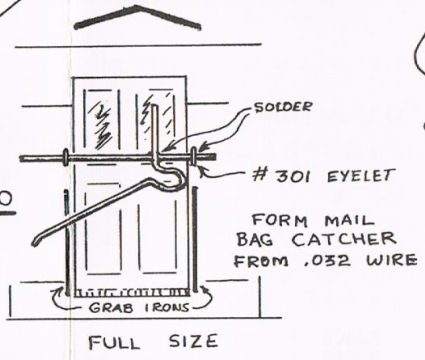


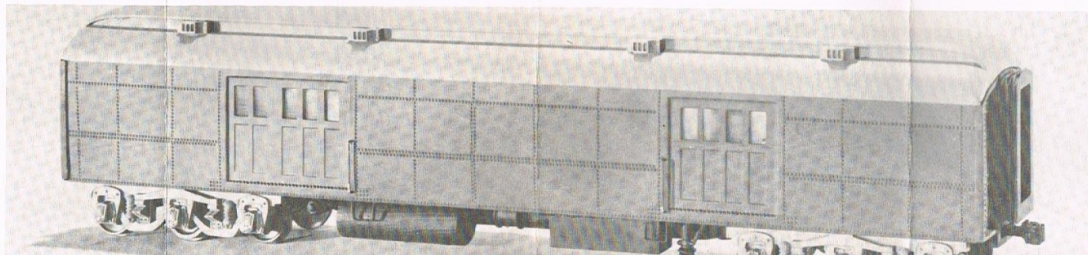
FIG. 10

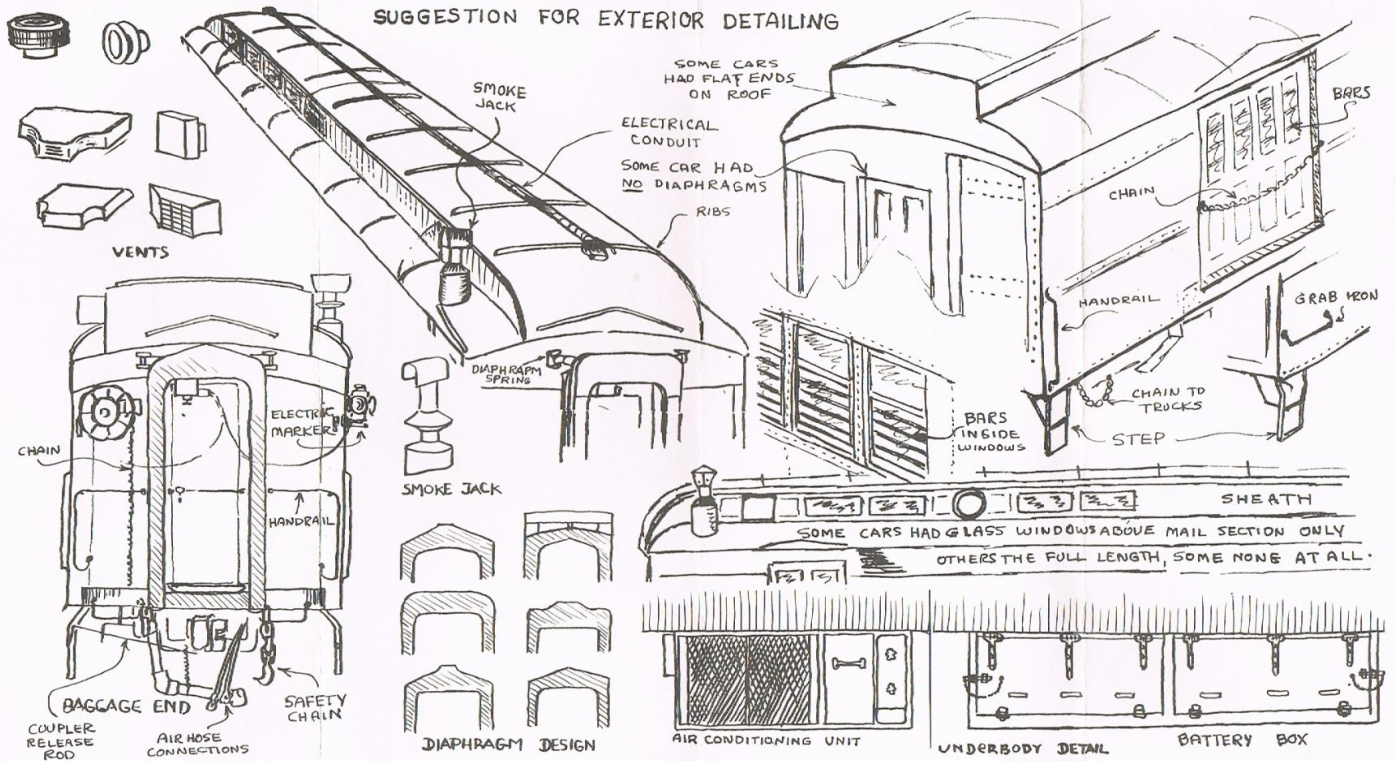


PARTS LIST

NUMBER	DESCRIPTION	#5010 BAGGAGE MAIL CAR	#5015 BAGGAGE CAR	PRICE
5032	End, baggage metal	2	2	\$1.00 pr.
5033	Ventilators, metal	8	8	.75 dz.
5034	Steam traps, metal	3	3	.10 ea.
5039	End block, wood	2	2	.15 ea.
5040	Roof, monitor, wood	1	1	1.00 ea.
5042	Floor, wood	1	1	.40 ea.
5043	Underframe wood 7/32" x 1/2" x 10"	1	1	.10 ea.
5044	Crossbrace, wood 1/8" x 1/2" x 6"	1	1	.05 ea.
5045	Tank, wood 5/8" dia. x 1 3/4"	1	1	.06 ea.
5046	Tank, wood 5/8" dia. x 1 1/4"	1	1	.08 ea.
5047	Box, wood 1/2" sq. x 1 3/4"	1	1	.09 ea.
5048	Box, wood 1/2" sq. x 1 1/4"	1	1	.08 ea.
5049	Brace strip, wood 1/8" x 1/4" x 20"	2	2	.07 ea.
5050	Window, Cello. .030 x 1 1/4" x 20"	1	1	.45 pr.
3151	Wire brads	12	12	.25 oz.
3060	Step, metal	6	4	.15 pr.
1698A	AB brake set, pass.	1	1	.25 set
3125A	AB brake wheel	2	2	.15 ea.
3125H	AB brake wheel housing	2	2	.10 ea.
1591	Coupler, nylon	2	2	.35 pr.
510	Diaphragm	1	1	.60 pr.
R-25	.025 brass wire 24"	1	1	.16 ea.
R-32	.032 brass wire 12"	1	1	.09 ea.
301	Eyelets	4	0	.05 ea.
229A	Wood screw #0x5/8" Rd. Hd.	2	2	.20 dz.
C-1801	Wood screw #2x3/4" Fl. Hd.	4	4	.15 dz.
C-1808	Wood screw #8x2 1/2" Rd. Hd.	2	2	.04 ea.
C-2018	Esc. pins #22x 1/4"	30	24	.50 oz.
C-2028	Washer, #5 x 1/4" x .062	2	2	.15 dz.

Price of pr. sides      \$2.95      \$2.95



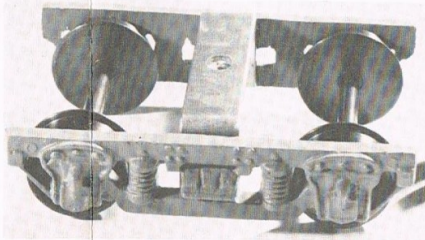


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A Bronze sandcasting with unbelievable sharp detail and includes our NEW 36" steel wheels

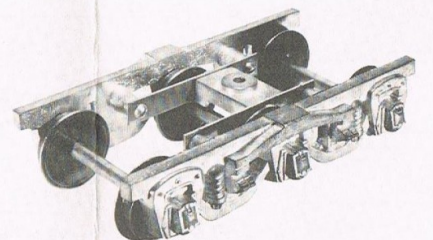


- #3814 Passenger truck kit 4-wheel scale \$3.50
- #3815 Passenger truck kit 4-wheel tinplate 3.50

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- #3809 Passenger truck kit 6-wheel scale \$2.75
- #3810 Passenger truck kit 6-wheel tinplate 3.00