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NASG Inc.

SUPER SCALE MODELS CORPORATION

A.A.R. Standard Box Cars

50'-6" STEEL SHEATHED

PARTS LIST

<u>PART NO.</u>	<u>QUANTITY</u>	<u>DESCRIPTION</u>
<u>(SECTION 4203B)</u>		
4000	2	Car end (corrugated metal)
4001	2	Car end (wood)
4042	1	Car roof (wood)
4043	2	Car sides (wood) (4 pieces)
4044	1	Car floor (wood)
4005	2	Side door
4033	1	Roof walk
4009	15	Roof ribs
4034	1	Center sill (3 pieces)
****	2	Car sides (metal)
<u>(SECTION 4203A)</u>		
4006	4	Door slider
4035	2	Roof end platform
4016	4	Ladder
4017	1	Brake wheel (2 pieces)
4019	1	Brake platform (2 pieces)
4020	4	Destination board
4021	4	Roof walk support
4022	8	Grab iron
4023	2	Wire for roof hand holds and brake rod
4027	4	Car steps
<u>(SECTION 4203C)</u>		
4011	2	Underframe cross brace
4012	1	Brake cylinder
4013	1	Brake reservoir
4014	1	Brake valve
4015	2	Coupler pocket and body holster
4018	1	Brake housing
<u>(SECTION 4203D)</u>		
4024	25	#20 wire brads
4025	50	#24 escutcheon pins
4026	2	#4 steel wood screws
<u>(SPECIAL)</u>		
4028	1	**Paint
4029	1	**Paint

* * Not included in standard kits with regular R. R. colored sides, such as Tuscan red and aluminum.

**** Determined by sides selected. See catalog sheet #M5 for parts numbers.

NOTE: Due to varying preference, couplers and trucks have been omitted from these kits. See our catalog for a selection or use others of your choice.

NOTE: In many cases, a printed instruction sheet of a similar type of car has been included. This sheet is for YOUR GUIDANCE ONLY and does not obligate us to include all of the parts and pieces shown thereon. Refer to the list of parts shown below which cover each car type.....

PARTS INCLUDED HEREWITH: 1 pr. CAR SIDES, either plain or lettered; 1 pair CORRUGATED METAL CAR ENDS; 1 WOOD FLOOR; 2 spacer WOOD END BLOCKS; 2 spacer WOOD ROOF STRIPS; 1 CAR ROOF (embossed metal or wood with separate ribs); 2 or 4 SIDE DOORS (box-auto only); 1 ROOF WALK (1 or more pieces); 2 ROOF PLATFORMS (box-auto only); 4 ICE HATCHES (reefer only); 4 LADDERS; 1 BRAKE WHEEL; 1 BRAKE PLATFORM; 4 DESTINATION BOARDS; 3 GRAB IRONS; 4 CAR STEPS; 1 pc. WIRE for handholds and brake rod; 25 ESCUTCHEON or BANK PINS; 2 BODY BOLSTERS (alternate: coupler pockets); TRUCKS (if included in list price).

ASSEMBLY:

WOOD FRAME UNDERBODY

Wood frame is completely covered, in most cars, and appearance is only of secondary value. Cement the wood end spacer blocks to the floor even with the floor ends, grooves at the sides pointing towards the center. Wood spacer strips are cemented at the top, even with the outside edges, hollow space in the middle. (Wood roofed cars omit the roof spacer strips using the roof instead).

MOUNT SMALL PARTS

Clean the flash (extra metal) from all castings. Examine and file smooth all burrs from the stamped metal pieces. Now, mount and fasten all small parts, such as ladders, door sliders, platforms, ice hatches, roof walk, etc., in place using a drop of cement to each joint. If mounting holes are too small or new ones are needed, place the piece to be pierced on a wood block and use a small drill held in a pin vise to make a new hole or enlarge the old one. Alternate method: use a sharp ice pick, tapping lightly on the piece placed on a wood block.

MOUNT CAR SIDES

Cement car sides in place, after small parts are firmly fixed. Box and auto car sides should have the tops of the slots (indentations) at the bottom just even with the underside of the wood floor. Reefer car sides are just even with the underside of the floor. There will be a small gap between the top of the car side and the top of the wood frame but the roof (metal) will cover that.

MOUNT CAR ROOF

Mount metal car roof, after removing any visible curvature which may be found by holding in both hands and applying light pressure. Be very careful in this operation. Use cement to hold in place.

MOUNT CAR ENDS

Cement car ends in place, filing out a small notch, if required, at the point where the roof and ends meet.

UNDERFLOOR AND TRUCKS

Mount underfloor parts, as desired. Assemble trucks and mount. Trucks have a separate assembly sheet.

PAINTING

Clean car with carbon tetrachloride. Paint with a good grade of model paint, using manufacturers recommendations. Car ends and roofs are usually colored tuscan red. Underfloor and trucks are black.

HOLES APPEARING IN PARTS WHICH ARE NOT USED MAY BE IGNORED OR FILLED WITH METAL PUTTY BEFORE PAINTING, AS DESIRED.....

A sincere effort has been made to bring you one of the finest car kits ever produced in any gauge. For best results, read the instruction procedure carefully. DO NOT HURRY construction. Allow sufficient time for each operation, particularly for cemented fastenings to dry.

1. WOOD BODY ASSEMBLY. Use quick drying airplane cement. Fasten wood parts together, making sure all parts are square with each other before allowing to dry. Note that the wood sides are in four separate pieces, eliminating the job of cutting the side door openings. By referring to the section drawing, it will be seen that the metal sides (when installed later) will stick up about 1/64" above the wood sides. This is proper.

2. ROOF ACCESSORY ASSEMBLY. Install the 11 metal roof ribs. Spacing for each rib should be taken from the full size roof plan, which may be used as a template. Before installation, each roof rib should be bent to the roof contour, the ends of each to be turned down and fastened in place with an escutcheon pin. Roof walk and roof end platforms should be fastened in place with cement or drill #66 holes for use of escutcheon pins.

3. UNDERFRAME AND UNDERFLOOR ACCESSORIES. Install center sill with escutcheon pins. Place cross braces in slots provided and fasten with escutcheon pins. Install coupler pockets and underframe brake equipment as shown in the small size drawing.

4. CAR ENDS (METAL). Place metal end against the wood body and notice the overlap at each side. It may be necessary to lightly sand the wood sides of the car to provide an overlap, on each side, the same thickness of the metal car sides, which slip under the metal ends. Cement ends in place, making sure overlap is equal on each car side. Install all equipment shown on the drawing for the car ends. Braking equipment is only used on one end of each car. Ladder, grab irons and destination board are duplicated on both ends. SEE NOTE ON FASTENING PARTS IN PLACE.

5. FIRST PAINTING OPERATION. Before proceeding further, we recommend that all parts which require painting including parts not yet assembled, be covered with at least two coats. Roof, ends and car sides are Tuscan red and the balance of the car (underframe and underside) is black. SEE NOTE ON CAR PAINTING.

6. METAL SIDE INSTALLATION. Spring each side lightly and slip under the previously fastened metal car ends. Top of the metal side will stick up slightly over the wood side. Fasten in place with escutcheon pins, angling each pin slightly away from the edge to avoid splitting of the wood. Attach door slider, doors, ladders and other hardware which still remains in the manner shown.

7. FINAL PAINTING OPERATION. This final step is the most important of all. Touch up the heads of all escutcheon pins in the metal sides and any other areas not previously covered or which have become worn from handling. Although this may be omitted, we recommend that a final overall coat of clear dull lacquer be SPRAYED over the entire finished car, to help withstand wear and tear and handling during operation.

HINTS ON FASTENING PARTS IN PLACE. There are three ways to fasten parts in place:

1. Cement (quick drying acetate or plastic)
2. Escutcheon pins through drilled holes.
3. Solder.

Method #1 is the least durable, #2 is very satisfactory and #3 is the best for durability if it can be handled by the modeler. (Do not attempt to solder to the pre-painted metal sides as heat will blister the lettering). Most parts in this kit have holes already drilled for escutcheon pins. Use the #2 method and if additional holes are required for undrilled parts, refer to the note on the drawing for handling of this operation.

CLEANING CAR BEFORE PAINTING. All metal parts must be cleaned before painting to allow the paint to obtain a firm bond. Refer to the paint manufacturers' specifications, usually shown on the paint container.

PAINTING RECOMMENDATIONS. We recommend Stewart Lundahl 410M Tuscan red as a matching color for the pre-painted car sides. Please note that due to variations in manufacture it is impossible to hold paint or printed color to the same absolute shade. In addition, surface light reflection (sheen) will distort color perception by the eye, even though the colors may match in shade. If a color variation is apparent, lighten or darken the paint from the container as follows: TO LIGHTEN, add a small amount (about a thimbleful) of 410M Caboose red to a full jar of Tuscan red or more as required. TO DARKEN, add a small amount of black, as required by experimentation.

DO NOT ALLOW LACQUER THINNER OR CAR PAINT TO SPLASH ON THE PREPAINTED SIDES, as the body chemical of those compounds are solvents for the metal lettered finish. If spotting does occur, allow area to dry and then touch up with 410M Tuscan red, using a very thin mixture and applying with light, quick brush strokes.