

Assembly Instructions

EMD F-7 DUAL ROAD DIESEL

In O Gauge by All-Nation

Before starting construction of your F-7 unit, examine all castings and remove all flash. Be careful not to file tongues off top of side casting and groove on bottom of roof casting. All detail parts should be added before unit is assembled. A preliminary assembly is recommended to check the fit to the parts, end to sides, sides to roof, etc.

DETAILING

To the end (404) fit two grab irons (these are formed from .032 wire), then mount coupler using 2-56 screw. Then install wire forms for uncoupling (see detail drawing and instructions).

Cement fiber diaphragm (508) to striker plate (509). When dry cement assembly to the door frame with striker plate away from end. Permit the floor sill to come through inside of striker plate when diaphragm is compressed.

Fit door window glass into frame from the inside. (do not install till painting is finished).

Now take the sides (304-305). You have a choice of either one or two headlites. If you want only one, file off boss on nose door. If you want to use two, file out the membrane in nose door. NOTE if you want to use a MARS Lite both lites will have to be used, the top one for the MARS and the bottom for the headlite. If you want 45° number boards see drawing and instructions for their installation.

Fit hand rails (formed from wire in kit) in nose and sides. Then mount front coupler using 2-56 screw. Now mount the uncoupling wire forms on the nose as shown on the drawing. (For best results in Operating Automatic Couplers, solder drawbar handle wire form closed after it has been assembled and installed).

Fit all windows at this time. These are fitted from the back of the casting and not from the front as shown on the drawings. (Do not install till painting is finished).

Place horns in place, one facing forward and one back, and cement or swedge on the inside.

Grill can now be cut to fit A unit (it will not have to be cut for B unit). It fits between the front door and the rear of the unit. This should not be mounted until after the unit is painted.

The roof is now drilled if you want to put the train heating stacks on the rear of the unit. Mark off the roof as shown on drawing and drill with a 17/64" drill. Place the stacks in place and glue or swedge in place. Mount exhaust stacks in place. Mount roof lift rings and bend over on the inside. Fit plastic grill in opening in roof. (do not install till painting is finished).

ASSEMBLING

Assemble end and one side with 4-40 screws (C-1405). Do not draw up tight. Start the turnbuckles (222) into bosses in side. Set headlite lenses in place, flat side facing outside. Then start turnbuckles in other side. Draw sides together, using 1/4" open end wrench being careful not to deform the castings. The tongues and grooves must line up. If sides are bent out of shape, loosen and bend back into shape.

Now fasten other side to end with 4-40 screws.

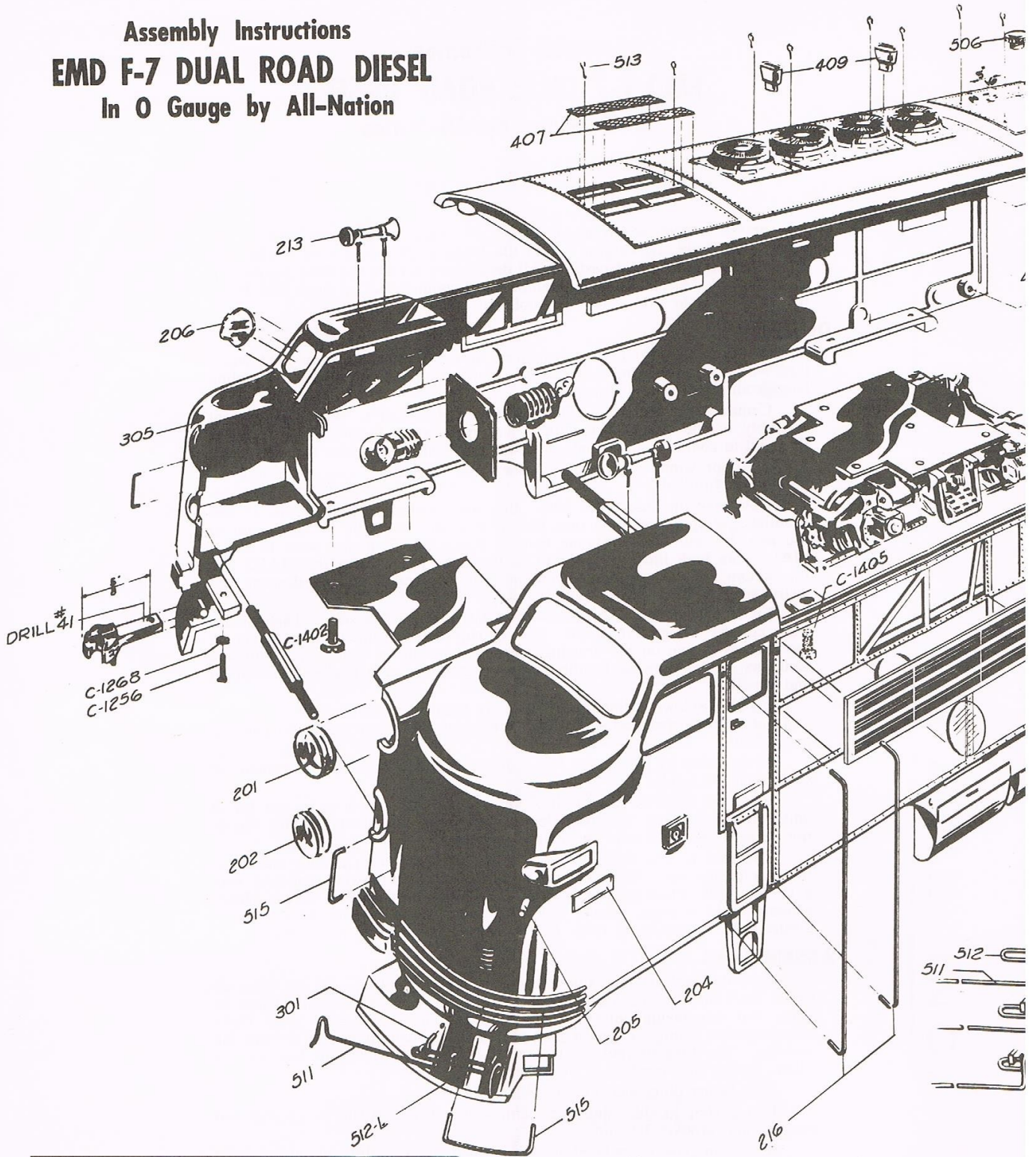
Fasten roof to sides and ends with 4-40 screws. Again be careful that tongues and grooves line up.

Body can now be painted to suit. When paint is dry, mount windows and roof grill using a clear cement. Mount the long metal grill with Goo. If instructions are followed grills will not come loose. If you wish you may want to drill and pin grills in place.

Lite assembly can now be placed in lite compartment and held in place with spring wire ring.

B unit is assembled the same as the A, but use two ends. The roof is attached in the same manner as the A.

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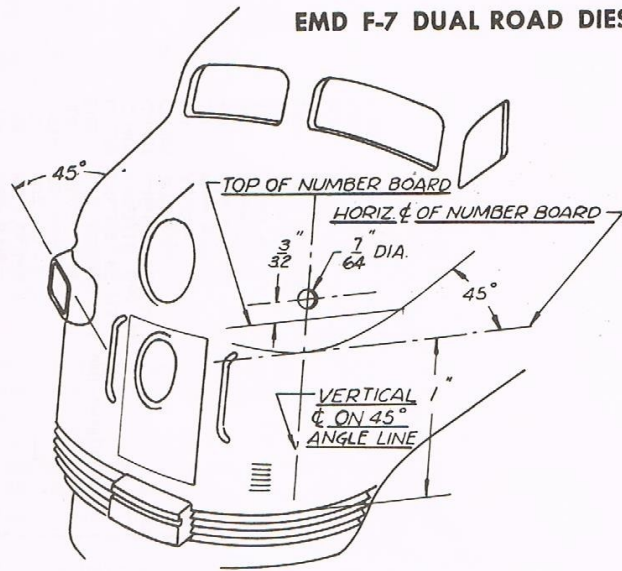
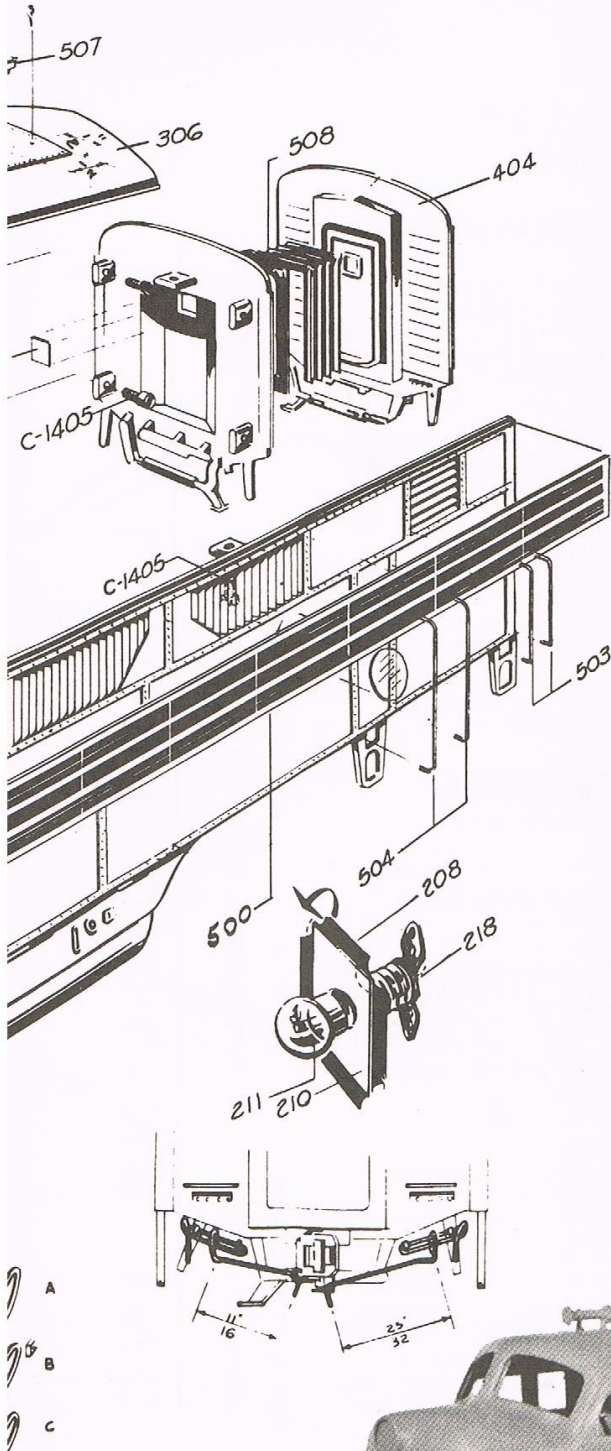


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ALL NATION LINE, INC
 Manufacturer and Distributor "O" Scale Model Railroads
 1020 BUSSE HIGHWAY • PARK RIDGE, ILL. 600

LOCATION OF 45° NUMBER
BOARDS ON THE
EMD F-7 DUAL ROAD DIESEL

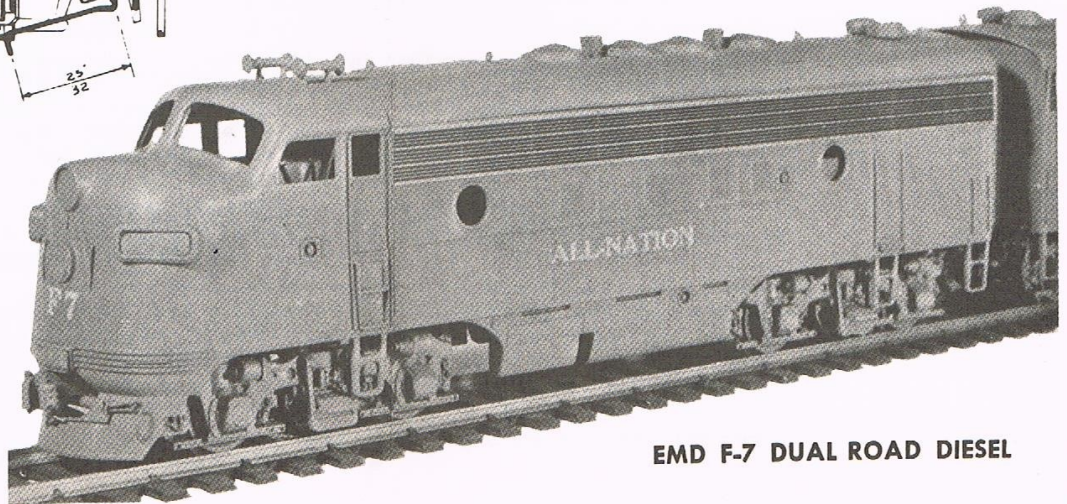


The location and installation of the 45° number boards is as follows:—First, file the flat or side type number board completely off with a wide, fairly fine file. This is done on both sides. Use a 45° angle to find the tangent point anywhere along the nose on the cylindrical section as in Sketch No. 1. By scraping the 45° angle protractor or template up and down the nose, it will leave a line along the 45° tangent point.

Along this centerline measure 1" up from the top anti-climber rails. This will be the horizontal centerline of the number board. Repeat process on the other side.

The simplest method of mounting these lights was found to be cementing them into place with household cement after removing the cast bosses on the inside of the number board casting. The rear indicator or jewel above the number board is located $\frac{3}{32}$ " above the top of the board. The hole itself should be about a scale 5" diameter, which would be about $\frac{7}{64}$ ".

To illuminate the number board itself, merely open up the nose after fitting the board and scribe the location of the opening on the nose. Fit the acetate "glass" carefully, then paint the inside black and use white number decals on the outside. Scratch the paint from behind the numbers so the light will illuminate them.



EMD F-7 DUAL ROAD DIESEL

ALL NATION LINE, INC.

MANUFACTURERS OF THE FAMOUS ALL-NATION "O" SCALE EQUIPMENT

1020 BUSSE HIGHWAY

PARK RIDGE, ILLINOIS 60068

PARTS LIST

	A	B	Price		A	B	Price
	unit	unit			unit	unit	
101A Side frame	4	4	1.20 ea.	513 Roof rings	10		4/.10
404 End	1	2	2.50 ea.	2482 SUB ASSEMBLY—Headlite	1		
1004 Bolster	2	2	.50 ea.	201 Large lense	1		.15 ea.
304-7 Right side A	1		9.50 ea.	202 Door lense	2		.10 pr.
305-7 Left side A	1		9.50 ea.	209 Paper insulator	1		.05 ea.
306-7 Roof A	1		7.50 ea.	210 Bulb mounting plate	1		.15 ea.
901-7 Roof B		1	7.50 ea.	220 Retaining ring	1		.05 ea.
902-7 Left side B		1	8.50 ea.	4016 Socket	1		.20 ea.
903-7 Right side B		1	8.50 ea.	4018 12 volt bulb	1		.25 ea.
400 Plastic grill	1	1	.65 ea.	2483 SUB ASSEMBLY—B unit small castings		1	
508 Diaphragm	1	2	.40 pr.	C-1256 2-56x3/8" Fil. Hd.		2	.25 dz.
509 Striker plate	1	2	.20 pr.	C-1402 4-40x3/16" Bind. Hd.		8	.25 dz.
1008 Floor plate	2	2	.25 ea.	C-1407 4-40x1/4" Fil. Hd.		14	.25 dz.
1908 Hook up wire	1		.06 ft.	C-1800 #3 washer		2	.15 dz.
1903 .032 wire	2	2	.03 ft.	409 Exhaust stack		2	.15 ea.
1903A .025 wire	1		.03 ft.	506 Steam intake		1	.15 ea.
500 Chrome grill	2	2	1.00 pr.	507 Steam exhaust		1	.15 ea.
2480 SUB ASSEMBLY—A unit small castings	1			2484 SUB ASSEMBLY—B unit wire forms		1	
C-1256 2-56x3/8" Fil. Hd.	2		.25 dz.	511 Bottom operating bar		4	.03 ea.
C-1402 4-40x3/16" Bind. Hd.	8		.25 dz.	512R Right handle		2	.03 ea.
C-1407 4-40x1/4" Fil. Hd.	9		.25 dz.	512L Left handle		2	.03 ea.
C-1800 #3 washer	2		.15 dz.	513 Roof rings		14	4/.10
213 Air horn	2		.25 ea.	2485 SUB ASSEMBLY—Truck parts	1	1	
222 Nose bolts	2		.50 pr.	C-1804 #5x.032 washer	2	2	.15 dz.
409 Exhaust stacks	2		.15 ea.	C-2032 Bolster clip	4	4	.15 ea.
506 Steam intake	1		.15 ea.	C-2036 C washer	2	2	.05 ea.
507 Steam exhaust	1		.15 ea.	103 End bar	4	4	.05 ea.
204 45 degree number board	2		.50 pr.	109 Tank ends	8	8	.10 ea.
2481 SUB ASSEMBLY—wire forms	1			1009 1/4" king pin	2	2	.15 pr.
301 Lift bar ring	4		.03 ea.	1013 Ball bearing	8	8	.15 ea.
511 Bottom operating bar	4		.03 ea.	3818 Operating couplers	2	2	.98 pr.
512R Right handle	2		.03 ea.				
512L Left handle	2		.03 ea.				