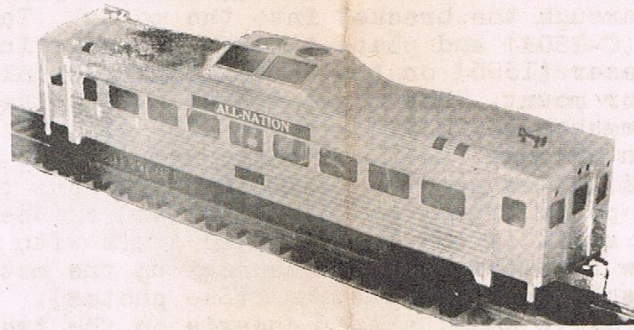


# BUDD RAIL DIESEL CAR (RDC)

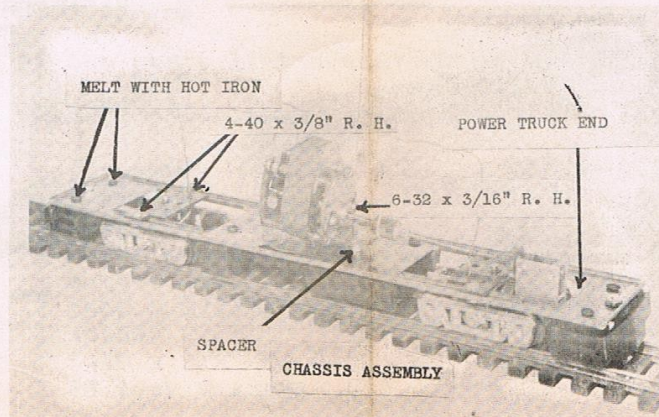
IN "O" GAUGE FOR SCALE OPERATION



Before starting on this kit read over the instruction sheet. Then check off the parts on the parts list. Clean any flash from the castings. You are now ready to start on the car.

1. TRUCKS. These are assembled by placing the lugs on the back of the side frames (2208), through the holes in the bolster (2209) and locking them in place with hairpin type key (C-2039). Before locking second side frame in place, put the wheels into the truck by placing the axles into the holes in the frames. If power truck is used it is placed in the truck at this time.

2. UNDERFRAME. You will notice that the holes in the metal floor are not the same. The one with the round end is for the power truck, (if used), the other is for the trailer truck. First place the floor plate (4067) in place on the floor (2202) with 4-40 x 3/8" screws (C-1405) and nuts (C-1400). Now take the underbody details (2203-5-7) and place them on the floor. Those that have lugs on them can be fastened to the floor by melting the end of the lug, where it comes through the floor, and flattening it to form a rivet. This can be done with a hot screw driver or soldering iron. The tanks (2204) are attached with 4-40 x 1/4" Bind. Hd. screws (C-1403) and nuts (C-1400). If you are going to use couplers, do not mount the pilot (2206). (If used, pilot is mounted the same way as the tanks). Couplers are mounted with the special screw (2124). First tap the coupler shank 2-56, then place screw through the floor, place washer (C-2037) on screw, then thread screw into the coupler (1592). This will complete the underframe.

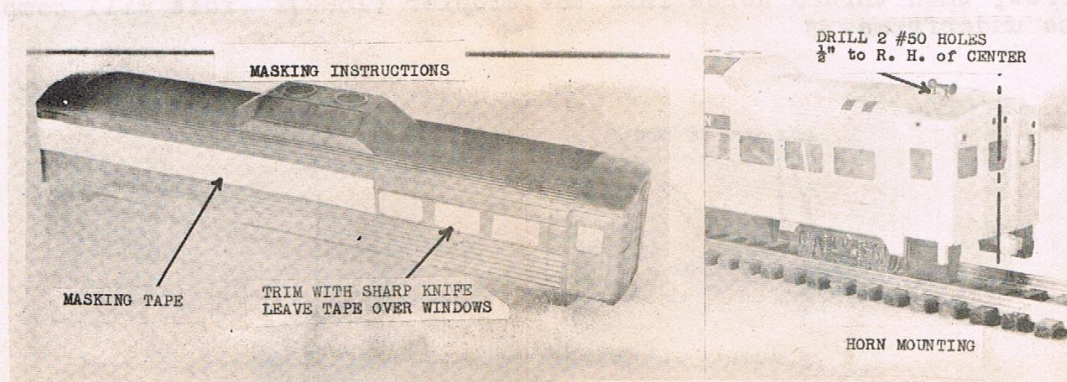




3. MOTOR AND TRUCKS. The motor (5/8" single shaft DC or AC DC) is fastened to the motor mount bracket (1566) with 6-32 x 3/16" R. H. screws (C-1601). Place a #6 lock washer (C-2038) on the screw, then place the screw through the bracket into the motor. Take the 5-40 x 5/8" R. H. screw (C-1504) and place through the hole in the floor, then place the spacer (1595) on the screw, into the hole in the bottom of the motor mount. Now mount the trucks to the floor plates. First place a #8 washer (C-2037) over the king pin on the bolster. Then place the pin through the floor plate and lock it in place with 'C' washer (C-2036). Now put the flexible shaft into the square hole in the top of the power truck, and the other end on the motor shaft. Lock the flexible shaft (4055) to the motor shaft with the cotter pin (C-2002). Now take the wire and connect up the motor. For DC run a wire from each truck to a brush. (See photos). You are now ready to test the drive unit. Place chassis on the track and apply power. DON'T FORGET TO OIL THE MOTOR AND DRIVE UNIT. We have more motors and drive units returned to us for this reason than any other.

4. BODY. The only thing that has to be done to the body is to drill two #50 holes (as shown in the photos) in each end for the air horn (213). Now take masking tape and lay a strip over the windows. Press the tape tightly down and then trim around the edge of the window (see photo), then strip the excess tape from the body, leaving the windows covered. Now give the body a coat of black paint. Note: If you use a lacquer, it must be sprayed. After black has dried, give the body a coat of silver paint. When this has dried, you may remove the tape from the windows. If you wish the passenger outline strip can be cemented to the inside of the car body in line with the windows. Now mount the horns and put on your decals.

5. FINAL ASSEMBLY. Take the body and place the floor into it. To fasten them together use the #4 x 1/4" R. H. self tapping screws (C-2040). These are placed through the holes in the floor and into the holes in the bosses on the inside of the body. This will finish your R.D.C. car. You may want to add more detail, such as handrails, head lights, markers, etc. You will find that the plastic body is very easy to drill and very easy to cement, so that you may add parts with ease.

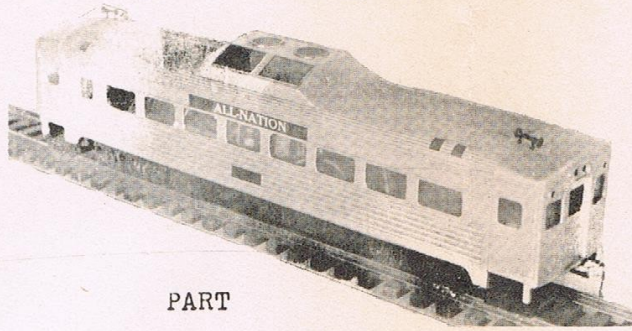




## PARTS LIST

**BUDD RAIL DIESEL CAR (RDC)**

IN "O" GAUGE FOR SCALE OPERATION



PART	PART NUMBER
1 body	2201
1 metal floor	2202
2 motors	2205
1 box	2207
1 sub assembly	2505
4 steps	2203
2 tanks	2204
2 pilots	2206
2 couplers	1592
4 #4x $\frac{1}{4}$ " R.H. self tapping screws	C-2040
2 coupler screws	2124
2 #8 washers	C-2037
2 air horns	213
4 4-40 x $\frac{1}{4}$ " Bind. Hd.	C-1403
4 4-40 nuts	C-1400
1 sub assembly	2506
4 side frames	2208
2 bolsters	2209
2 floor plates	4067
4 hair pin clips	2210
4 4-40 nuts	C-1400
4 4-40 x $\frac{3}{8}$ " R. H.	C-1405
2 #8 washers	C-2037
2 'C' washers	C-2036
4 33" wheels	1536

## POWERED CAR

All of the parts listed above plus the following:

1 R.D.C. power truck complete	1446
1 power truck - (small and large end) —	2212
1 sub assembly	2507
1 flexible shaft	4055
1 motor mount	1566
1 cotter pin	C-2002
2 6-32 x $\frac{3}{16}$ " R. H.	C-1601
1 spacer	1595
1 5-40 x $\frac{5}{8}$ " R. H.	C-1504
3 #6 lock washers	C-2038
1 instruction sheet	