

Check body, TEST FIT THE ROOF, and remove any flash, especially along the top inside edge of the side. DO NOT cement roof at this time. The roof rests on the raised ends and DOES NOT go all the way in on the sides, just to the first stepped edge. This is an overhanging roof.

Using your drill set, completely drill the body holes through the sides and ends. This will enable you to position each part and cement from inside the body. A new hole is needed for the bell crank. The hole on the bottom of the brake end is incorrectly placed. Drill a new hole 1/16" further out on the bottom of the end using a #70 drill.

Carefully cut underframe and train line pipe from sprues. There are slots in the underframe for the train line. The train line must be put in before installing the underframe, as it will not be possible to add it once the underframe has been cemented. The underframe is installed with the group of three holes adjacent to the two holes in the floor.

Before adding the brake rigging, test fit the trucks with the screws provided. Test fitting the trucks now will condition the holes for easier assembly when the car is finished.

The coupler boxes in this kit are designed to accept the Kadee #802 coupler. The hole in the lid of the box may need to be enlarged for the box to be closed completely. The assembled box is cemented to the bottom of the car by the locating pin. If you prefer to use the box supplied with the Kadee couplers, you must drill the appropriate holes in the bottom of the car.

Installing the brake rigging is next. Carefully cut the air reservoir with two thin air lines, triple valve, branch pipe and dirt collector, and the brake cylinder/rodding assembly from the brake detail sprue. The brake cylinder/rodding assembly is one piece, so do not cut it apart. First cement the air reservoir into the two holes on the bottom of the car, with the two air lines laying across the underframe. Next, cement the branch pipe and dirt collector to the hole in the train line. You can now cement the brake cylinder/rodding assembly to the underframe using the locating pins. The triple valve is then cemented with the indented side towards the underframe, which gathers in the ends of the pipes from the previous installed parts.

Begin adding detail to the "A" end. Cement two drop grab irons to the lower part of the end. Then one regular grab to the lower right and one ladder to the left using the pins.

Begin the brake end by installing the retainer valve/air line. The line is very fragile, if there is breakage, we advise drilling a hole in the valve and using wire. Next attach the brake housing bracket to the end and the housing to the bracket. Now install the bell crank. The brake rod/chain is next, slipping the chain into the housing and cementing the forked end to the bell crank. Complete the end by adding the ladder, brake platform supports, platform, brake wheel, 2 drop grabs and regular grab.

Each side receives a ladder to the right, two grabs on the left, a door latch, door step, and corner steps.

Before installing the roof, weight should be added to the floor if desired. Apply cement to the inner edges of the body and install the roof. Cement the roof corner grabs, roof walk, and support brackets. To install the roof walk, completely cut off the large pegs on the underneath side. The roof walk has a ridge down the center that fits into the slots on the roof. This also keeps the length properly aligned. The support brackets have to be bent to fit in place with the horizontal bar mounted under the walk.

The ice hatches are next. For closed hatches, the inside plugs are not needed. For open hatches, cement the plugs to the under side of the hatches. Hatches can be placed at different heights using the notches on the supports.

The final parts to add are the placard boards, which you can check photos for placement. The air hoses can be installed if you are not using the Kadee metal pins. These are cemented to the holes in the bottom end of the floor.

Now mount the trucks, tightening the screws, but still allowing the trucks to rotate freely.

Your model should now be complete except for any added weathering or painting that you would like to do.

THANK YOU! We hope that you enjoy building this kit and will continue to have fun running or displaying it. If you find that a part is missing or defective, or if you should break a part, please contact your dealer or write for a replacement.