

No. 825

1. Please refer to the enclosed general instructions for assembly and operating information.
2. To permit standardization of your rolling stock and interchange of equipment in different model railroads, we recommend a mounting height of 1.062" (1 1/16") from top of rails up to center line of coupler.
3. To mount coupler gear box assembly at this height, Fig. 1 shows the distance from top of rail to the mounting surface of the underside of the car must be approximately 1.203" (1 13/64"). The J & M Model Pullman passenger car mounting surface is much higher, about 1 9/16". This bracket will make installation of the Kadee® No. 820 coupler possible on cars with high mounting surfaces, allowing use of existing screws on the underbody. Cars which measure slightly higher or lower can be modified as in No. 5 (next column) to permit use of this bracket.

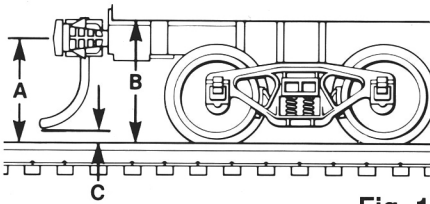


Fig. 1

- A: Railtop to coupler centerline = 1.062"
B: Railtop to car underbody = 1.203" (1 13/64")
C: Trip pin clearance = .125" (1/8")

4. Install coupler gear box assembly into bracket as shown in Fig. 2. Turn car over and look for obstacles which might prevent the gear box and bracket from laying flat and in position. It is important that the coupler be mounted directly on the carwidth centerline. The first step is to remove the old coupler and lay new bracket in position. Lay out the hole pattern on the bracket from the existing car underbody screws and drill clearance holes for these screws. (See Fig. 8 general instructions). A simple method of laying out the hole pattern is to coat the underside of the bracket with some dark finger nail polish. Lower the bracket into proper position on the screws and rotate slightly. This will scratch marks on the nail polish, showing the proper place to drill clearance holes. Center punch prior to drilling. If applicable, remove nuts from

existing screws, position bracket over screws and reinstall nuts to hold gear box in place. Bracket may be cut if obstructions exist and painted to better blend with underbody.

5. Once new coupler gear box assembly is secured, place car on track so you can check distance from top of rail to the center line of coupler. If coupler is too low, modify bracket as follows: Remove bracket and file smaller half of bracket by the amount coupler must be raised (Fig. 2). A shim of equal thickness must be

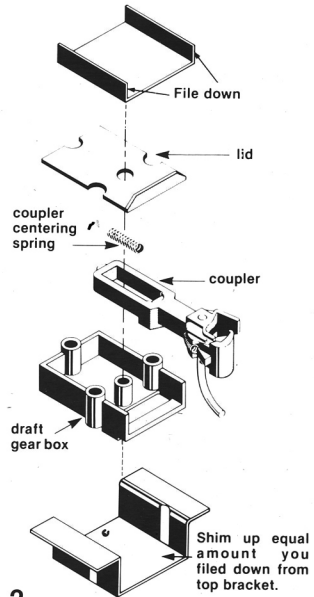


Fig. 2

placed under the gear box to hold it up properly. An alternative is to place washer shims between the truck bolster and the car body bolster. If the coupler is too high, a shim can be placed between the gear box and the underbody or, if possible, shims can be glued between the body bolster and the truck side frames (Fig. 3), which lowers the car.

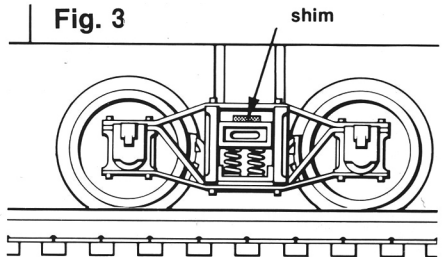


Fig. 3