

USA TRAINS

NW-2 Diesel Locomotive

This locomotive can be converted to Kadee®couplers using one of two methods:

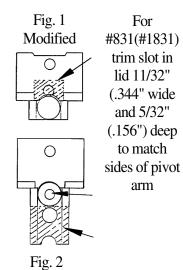
Option 1 (#787 packet) is for larger radius track and requires only drilling a hole in the gear box shank.

Option 2 is for smaller radius track and requires some cutting of the USA's pivot arm and the Kadee® gear box shank and

lid. Note: for G scale use #831 & #1 scale use #1831 for Option 2.

Please read thoroughly before proceeding.

For both options on the front and rear: Remove the original couplers. Loosen pivot arm mounting screw, disconnect spring from floor, and then remove the screw and pivot arm.



For #836 (#1836) Coupler mounting drill 1/8" (.125) hole centered in the boss clearance hole

For #831 (#1831) trim 7/16" (.438") off of #831 (#1831) gear box shank OPTION 2: Is for smaller (tight) radius track, even down to 1100, depending on the coupler mounting and length of car coupled to the locomotive. Trim 5/8" (.625") off the end of the original pivot arm (see FIG. 3).

Trim 7/16" (.4375") off the end of the shank of the #831 draft gear box (see FIG. 2). Cut a slot in the lid 11/32" (.344") wide and 5/32" (.156") deep to match the sides of the pivot arm (see FIG. 1). This also exposes the mounting hole.

For #831 (#1831) pivot mounting trim 5/8" (.625") U.S.A. pivot arm

off of end

Fig. 3

Assemble the #831 coupler. Check fit to the pivot arm matching the mounting holes. Trim and adjust until holes match and fit is even. Reinstall pivot arm to mounting block. Use a graphite lubricant (Kadee $^{\circ}$ #231) on mounting surfaces for best performance. Leave the original screw a little loose and hook the spring to the floor. Note: the centering action of the pivot arm performs better when the spring's hook is pointing up (see FIG. 4). Attach the coupler to the pivot arm with a #4 x 1/2" screw (see FIG. 4).



Hook on spring should point up

Fig. 4
Inverted coupler mounting with trimmed pivot arm

Check for correct coupler height, function, and clearance and make any adjustments necessary. If too high, loosen pivot arm screw slightly.