USING THE HEIGHT GAUGE

A note of CAUTION, the gauge is not insulated and "only" should be used on a non powered track or track with the electrical power completely switched off.

1. CAR MOUNTING SURFACE HEIGHT GAUGE:

#1-Scale - For body mounting centerset shank couplers the distance required from the top of the rail to the car underbody is 1.203"

G-Scale - For body mounting centerset shank couplers the distance required from the top of the rail to the car underbody is 1.300"

Set the height gauge on track and roll car with our a coupler up to the gauge (Fig.6). The car underbody should just clear the top of the gauge. If underbody is too high, add shim(s) of appropriate thickness between coupler gear box and the mounting surface to lower the coupler.

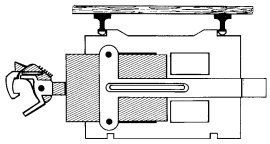
If to low, add shim(s) between truck and body bolster or cut out a space in the mounting surface for the coupler gear box to raise the coupler.

2. COUPLER HEIGHT: Place the gauge on the track making sure the slots on the bottom are down over the rails and the gauge is level. Roll a car or locomotive up to the gauge, the coupler centerline heights should match exactly. For the most consistent and dependable performance the couplers should be at the same height.

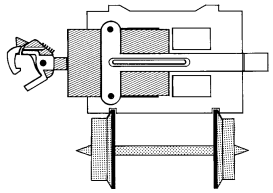
3. TRACK WITH GAUGE: To use, place gauge between rails (Fig. 8). This is helpful when laying your own rails.

4. WHEEL WIDTH GAUGE: Roll wheel sets through slots on side of gauge (Fig. 9). Wheels should pass through freely. If wheels hit on outside of slots they are to wide. If wheels hit on the inside of slots they are too narrow. Correct by twisting wheel(s) in or out on axle, or replace wheel pair.

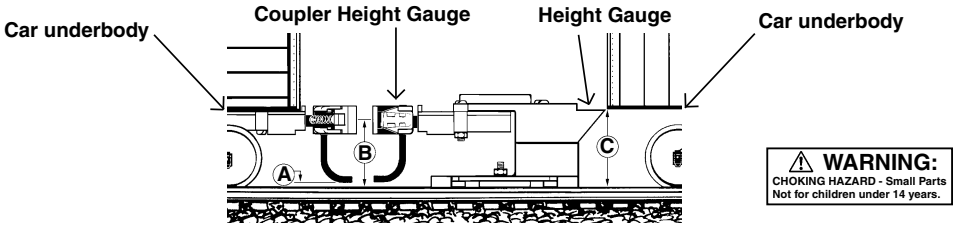
5. UNCOUPLER MOUNTING JIG: When mounting Kadee's® #842 uncoupler it is important that it be the proper height and centered between the rails. Attach the uncoupler to the plate under the height and centered between the four locators (Fig.4). After cutting out a section of the track ties to the proper depth the height gauge with the uncoupler can be placed on the track to check clearance. If glue is applied to the ties the height gauge will hold the uncoupler in the proper position while the glue is drying.



Track Width Gauge



Wheel Gauge



(A) Trip pin clearance always .125" (1/8").
(B) Railtop to coupler centerline always (#1 Scale 1.0625" (1 1/16")) (G Scale 1.125" (1 1/8")).
(C) Railtop to mounting surface always (#1 Scale 1.203" (1 13/64")) (G Scale 1.300" about (1 19/64").

⚠ WARNING:
CHOKING HAZARD - Small Parts
Not for children under 14 years.

MAGNE-MATIC®

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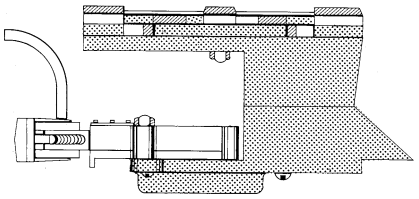

829, 880, 980, 1929 Ins.

G & #1 SCALE COUPLER HEIGHT GAUGE ASSEMBLY INSTRUCTIONS

This packet should include: 1 each 2-piece height gauge, 1 each metal plate, 1 each coupler, 1 each draft gear box, 1 each draft gear box lid, 1 each centering spring, 1 each 4-40 x 1" screw, 1 each 2-56 x 7/16" screw, and 1 each 2-56 nut.

The #829 & #1929 also includes 2 each 2-56 x 1/2" screws and 2 each 2-56 nuts.

The #880 & #980 also includes 2 each 4-40 x 5/8" screws and 2 each 4-40 nuts.

ASSEMBLY

IMPORTANT: Before assembling coupler height gauge, remove any burrs or flash (if any) from all parts.

To assemble the coupler follow the illustrations in these instructions. Add a "puff" of our #231 Greasem into the draft gear box. Make sure the coupler flexes back and forth freely.

TIP: Hold coupler and draft gear box together and install centering spring into slot using tweezers or a small screwdriver between the end coils.

Attach draft gear box snugly using the 2 2-56 x 1/2" screws and nuts supplied for the #829/#1929 or the 2 4-40 x 5/8" screws and nuts supplied for the #880/#980.

Align & secure the metal plate to the bottom of the height gauge, use the 2-56 x 7/16" screw and nut.

Attach the two halves of the height gauge using the 4-40 x 1" screw.