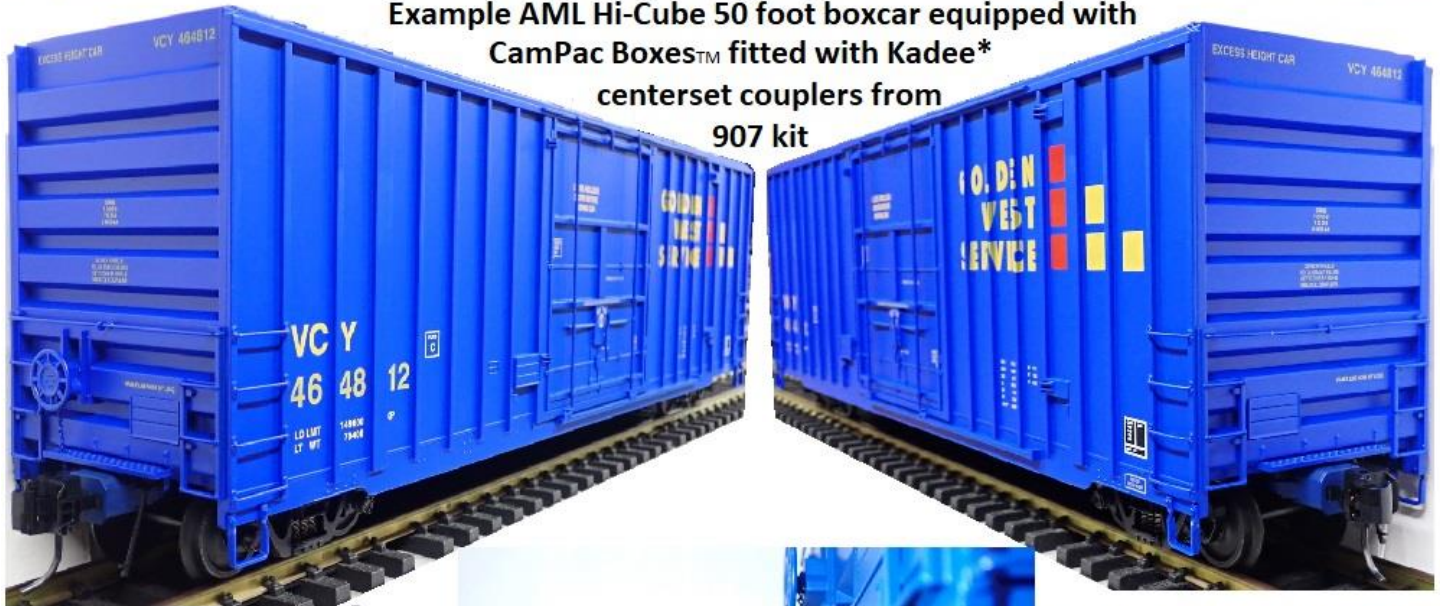


# AML Hi-Cube Boxcar CamPac Box™ Install Guide

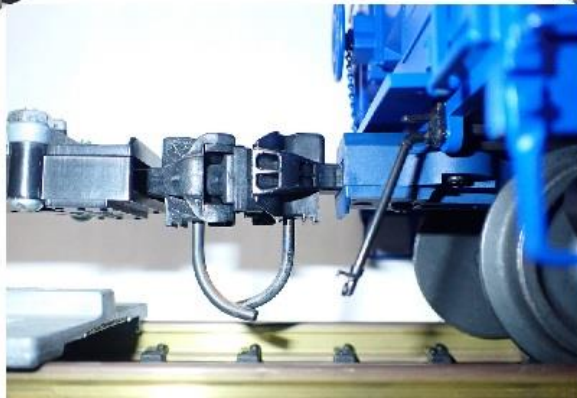
Ted Doskaris, 12-14-2023



Example AML Hi-Cube 50 foot boxcar equipped with CamPac Boxes™ fitted with Kadee\* centerset couplers from 907 kit



Example coupler alignment with Kadee 980 coupler height gauge

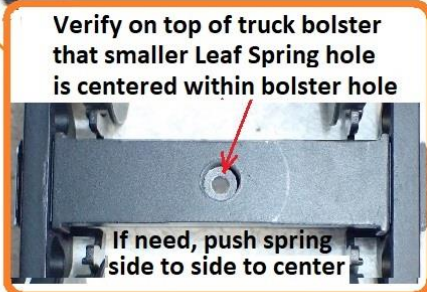
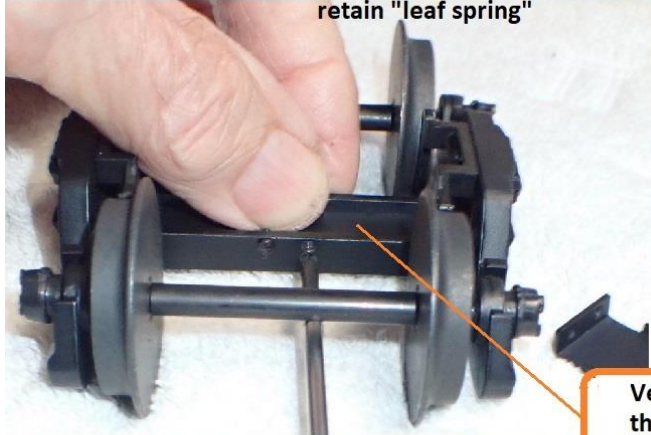
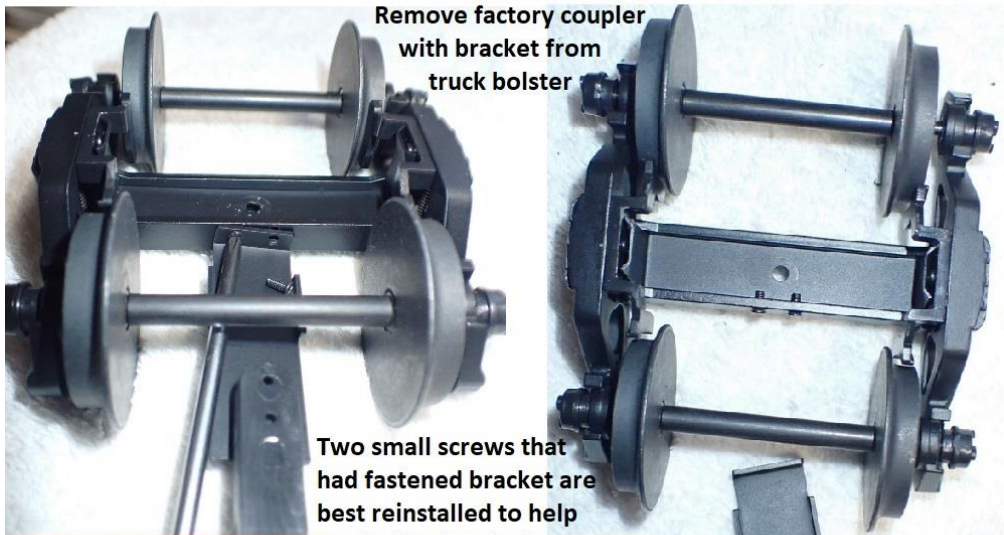


CamPac Boxes™ with Kadee couplers are intended for this car operation on 9 foot diameter or greater track curves - but may operate on 8 foot diameter curves depending on tolerances

\*Kadee is a registered trademark of Kadee Quality Products Co., White City, Oregon, USA.

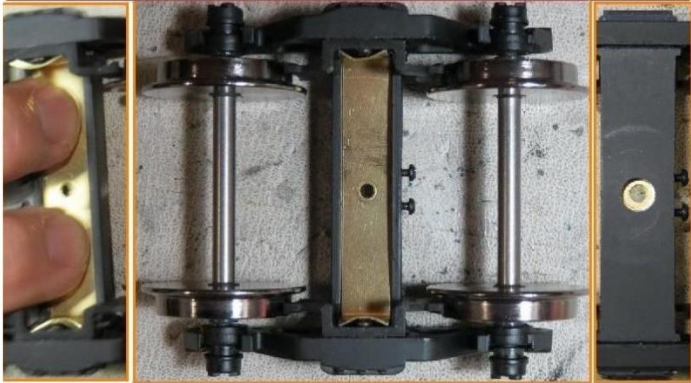
Ted Doskaris, 12-7-2023

Remove both trucks from the car, and then the coupler bracket from the trucks



Ted Doskaris, 12-11-2023

Older production run AML cars did not have the sideframe spreader leaf spring to remedy sideframe "pigeon toe" affect, resulting in drag on axles; however, these springs may be obtained via Colin Camarillo's website.



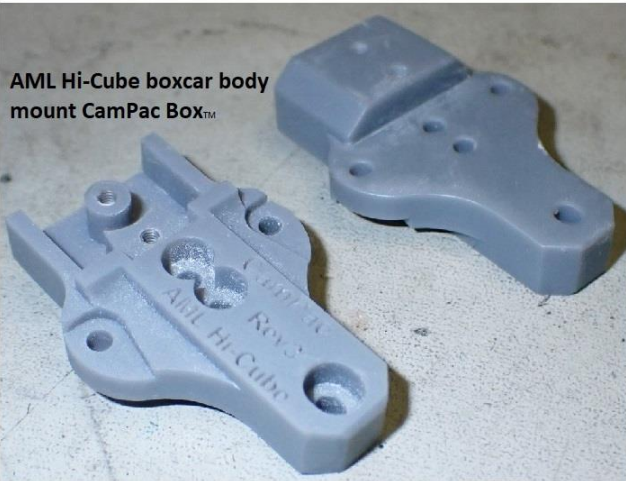
Ted Doskaris, 12-11-2023

Colin's web site is

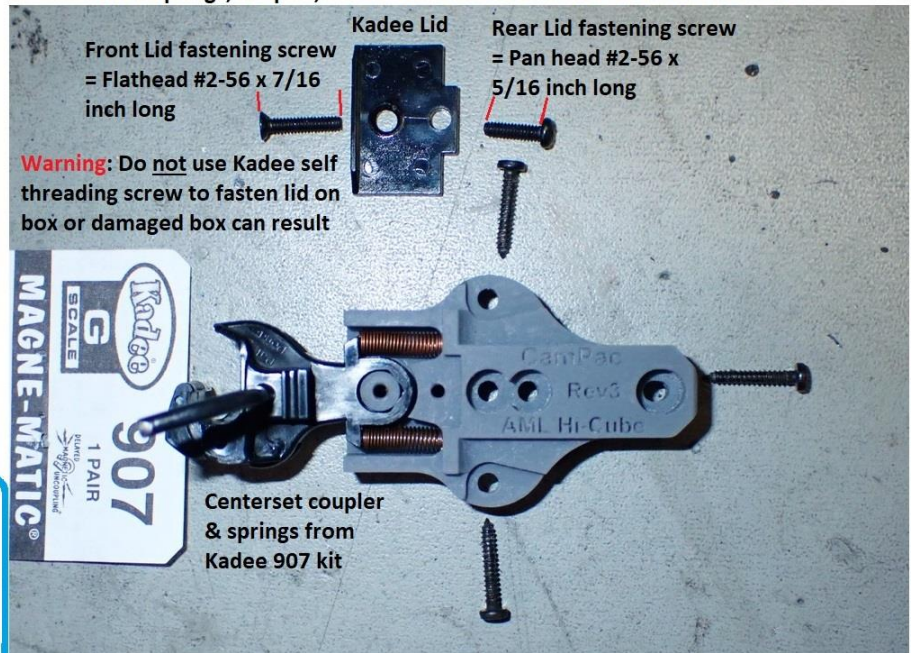
<https://www.camarillopacific.com/campacbox/>

**The Installer is to obtain the Kadee 907 kit**

Install springs, coupler, and lid from Kadee 907 kit into CamPac Boxes™



AML Hi-Cube boxcar body mount CamPac Box™



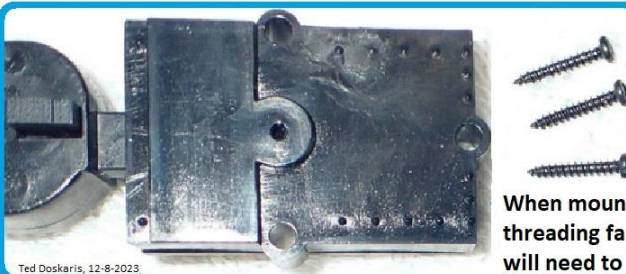
Front Lid fastening screw = Flathead #2-56 x 7/16 inch long

Kadee Lid

Rear Lid fastening screw = Pan head #2-56 x 5/16 inch long

**Warning:** Do not use Kadee self threading screw to fasten lid on box or damaged box can result

Centerset coupler & springs from Kadee 907 kit



Ted Doskaris, 12-8-2023

When mounting the CamPac box, use AML supplied optional body mount box metric M2 x 12mm self threading fastening screws included with the Hi-Cube boxcar. (**Advisory:** The car's mounting pad holes will need to be drilled (#51 tap bit, 0.067" dia.) completely thru so screws won't bottom out.)

Also needed and supplied is spacer washer to go under each box tail hole is #4 Flat Washer, OD 1/4", 0.032" Thick, Digi-Key Part Number 36-3348-ND <https://www.digikey.com/en/products/detail/keystone-electronics/3348/61906>

The assembled box can be painted, typically matching the car's body color



## Mounting Pad Preparation

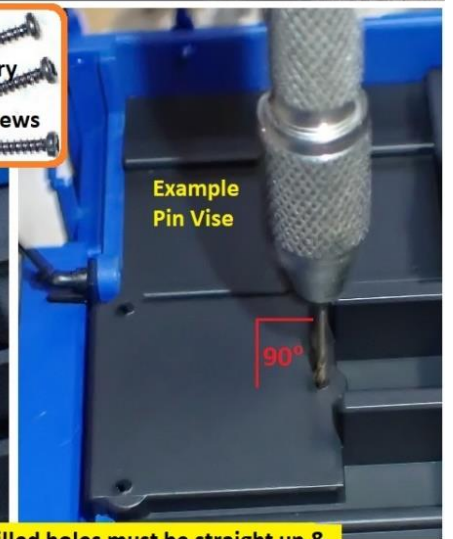
The AML car floor does not have its mounting pad holes completely drilled thru.

To utilize the longer factory screws to mount the CamPac box, the existing pad holds must be drilled thru using #51 drill bit.

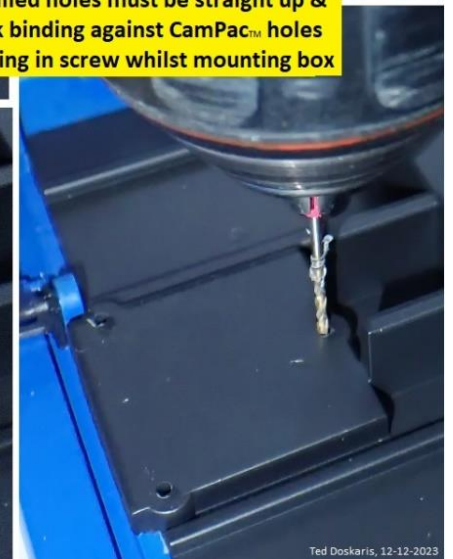
A pin vise or powered drill can be used for drilling, but **it's very important that either tool to be held vertical so the holes are straight up & down.**



The car's coupler box mounting pad holes will need to be drilled (#51 tap bit, 0.067" dia.) completely thru so screws won't bottom out. A pin vise or smaller power drill can be used.



**Advisory:** Drilled holes must be straight up & down, or risk binding against CamPac™ holes when threading in screw whilst mounting box



Ted Doskaris, 12-12-2023

**Mount the CamPac Box –  
same at both ends of car**

Because the car floor has an intrinsic tilt from the bolster to the end sill, a spacer is typically needed to level the Box so (after trucks remounted) it can align with the Kadee 980 coupler height gage.

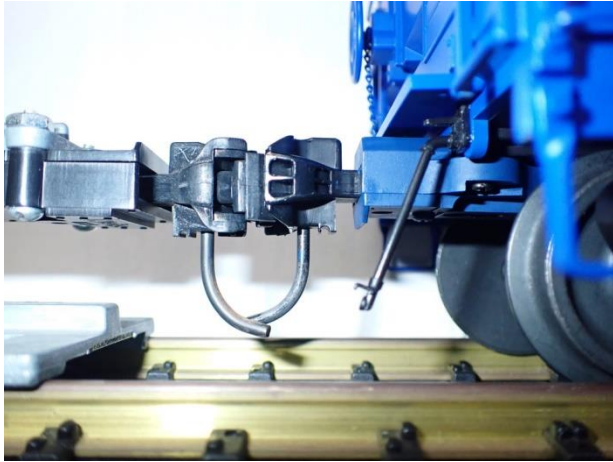


AML Hi-Cube boxcar CamPac Box™ Install



Example #4, 0.032  
inch thick Nylon  
spacer washer

Because of floor tilt common to Hi-Cube car, spacer needed under box tail to help level coupler



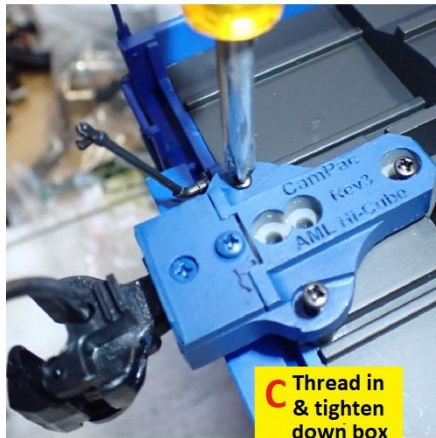
Follow the steps in the illustration.



**A** Place CamPac Box™ over floor pad holes



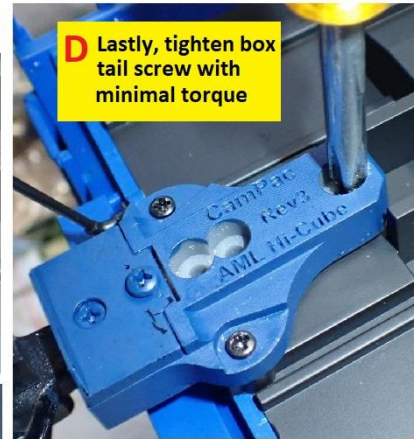
**B** First, part way thread in factory tail screw



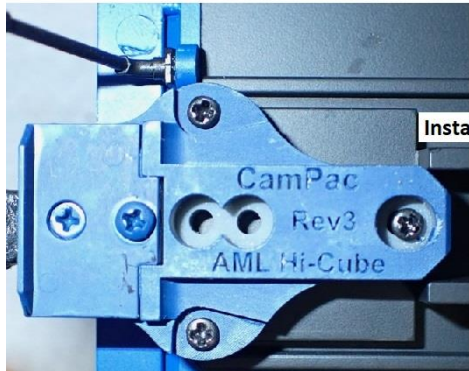
**C** Thread in & tighten down box ear screws



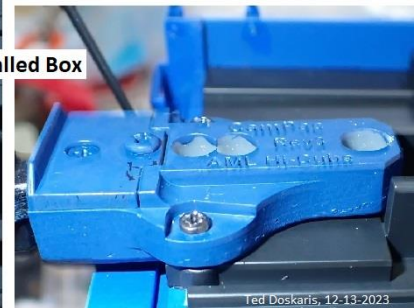
Ensure spacer washer is under tail hole



**D** Lastly, tighten box tail screw with minimal torque



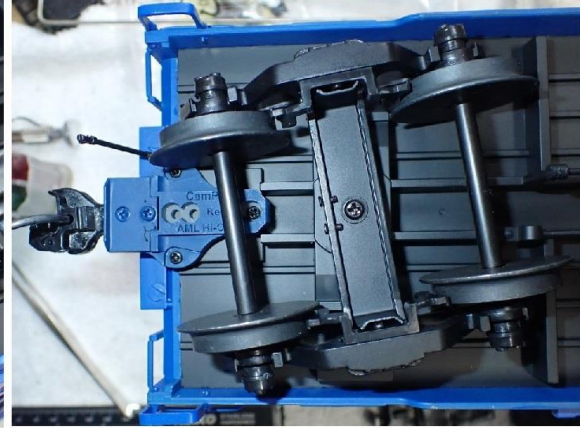
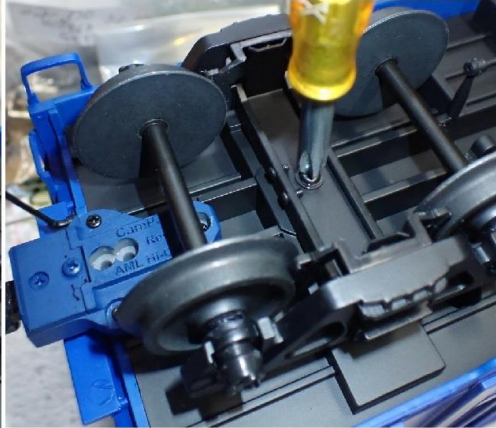
Installed Box



Ted Boskaris, 12-13-2023

## Re-Mount Trucks

Having removed truck mounted coupler & bracket subassembly, re-install truck on chassis floor bolster post with factory screw - same at both ends of car



Ted Doskaris, 12-14-2023

## Advisory:

### For car operation on 8 foot diameter curves

Owing to tolerances, if car exhibits wheel flange drag, the CamPac box ears can be trimmed for added clearance and box mounted with only 2 screws at inline holes. If so, using mounted box at ears on floor pad, it can be used as template to drill the front inline hole thru the mounting pad with #51 bit

AML Hi-Cube Boxcar



After inline hole drilled thru pad, remove box and trim off its ears

### Example cars on 8 foot diameter track



Ted Doskaris, 12-14-2023

**DONE!**