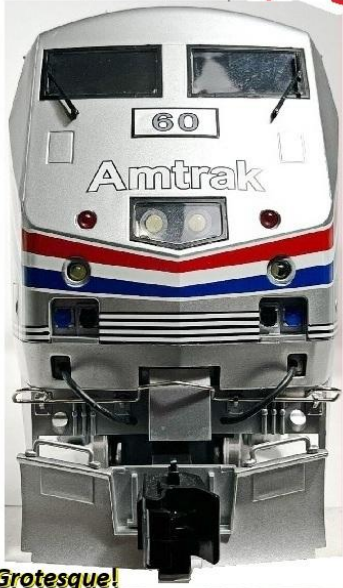
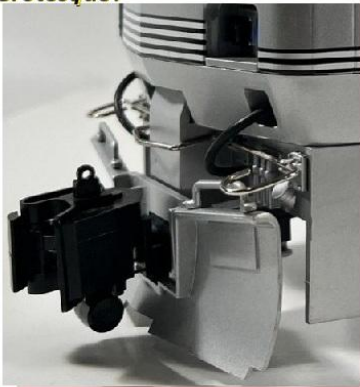


Install Guide LGB P42 and CamPac Boxes™ - by Ted Doskaris 5-30-2026

Factory truck mount coupler & plow



Grotesque!



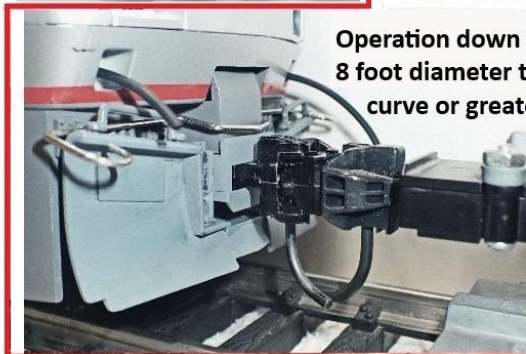
Body mount small foot print CamPac Box™ with Kadee "G" centerset coupler



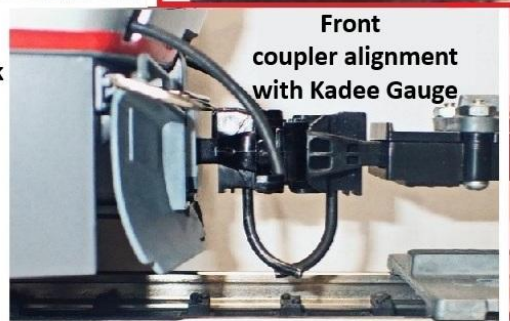
Plow also body mounted



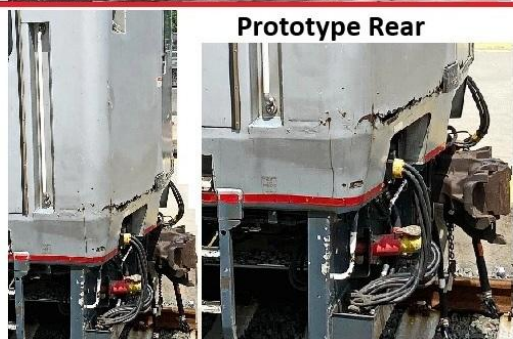
Prototype



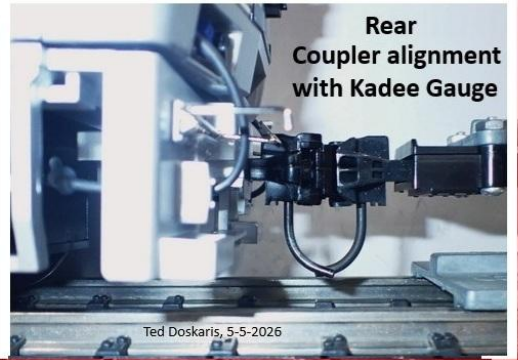
Operation down to 8 foot diameter track curve or greater



Front coupler alignment with Kadee Gauge



Prototype Rear



Rear Coupler alignment with Kadee Gauge

Ted Doskaris, 5-5-2026

Overview

- Instructions are provided as a guide for the installer of 3-D printed CamPac Boxes™ for the LGB brand "G" scale P42 Genesis Diesel locomotive.
- What is done to the front of the loco to body mount the CamPac box and front plow is more extensive compared to the rear. Once done, the P42 is to operate on 8 foot diameter track curves or greater.
- **Note:** Revisions / modifications made to the loco are irrevocable, which will affect the resale value to the possible detriment or benefit of the loco.
- The installer is to have access to tools and have adequate skills to make cuts and do finish work.
- Tools needed include Phillips type P1 screwdriver, razor saw, hand held narrow saw blade, sharp pointed scribe or razor knife to mark cut lines, medium & small size files, pin vise, electric drill, and drill bits #50, #43 & 1/8", used on LGB platform assemblies or chassis. (Measuring tools include machinist scale and optional caliper.)
- CamPac 3-D printed components include different front and rear coupler boxes and supplied screws.
- Not included: **The installer will need to supply a Kadee 907 kit** (1) of which only the springs, lids and couplers will be fitted into each CamPac Box.

Installation Steps:

Step 1 – Coupler Boxes Preparation

Install selected parts from a Kadee 907 Kit in the front, and then in the rear CamPac Box.

LGB P42 Genesis locomotive **FRONT** CamPac Box. fitted with centerset coupler, springs, lid from Kadee 907 kit

Warning: Do NOT use Kadee self threading screw to fasten lid on box which can cause a damaged box

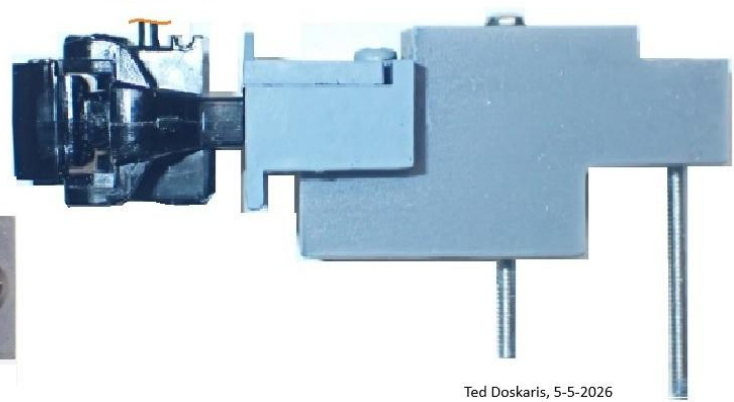
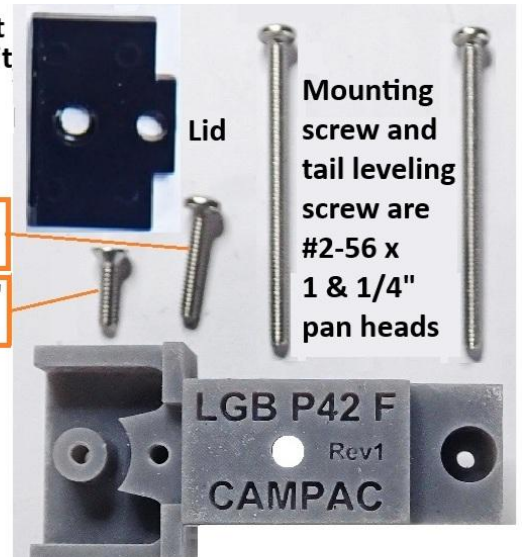
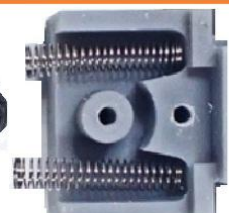
Rear lid #2-56 x 7/16" pan head screw

Front lid #2-56 x 5/16" flathead screw

Mounting screw and tail leveling screw are #2-56 x 1 & 1/4" pan heads



Assemble CamPac Box with Kadee centerset coupler, springs, and lid as illustrated



Ted Doskaris, 5-5-2026

LGB P42 Genesis locomotive **REAR** CamPac Box™ fitted with center set coupler, springs, and lid from Kadee 907 kit

Kadee 907
1 PAIR
SCALE
MAGNE-MATIC®
Made In the U.S.A.

Assemble CamPac Box with Kadee center set coupler, springs, and lid as illustrated

Mounting M2.5 x 12mm self thread pan head (2) screws

Tail leveling #2-56 x 1 & 1/4" pan head screw

Warning: Do NOT use Kadee self threading screw to fasten lid on box which can cause a damaged box

Front lid #2-56 x 5/16" flathead screw

Rear Lid #2-56 x 7/16" pan head screw

Lid
Centering Springs

Lid

LGB P42 R Rev 4 CAMPAC

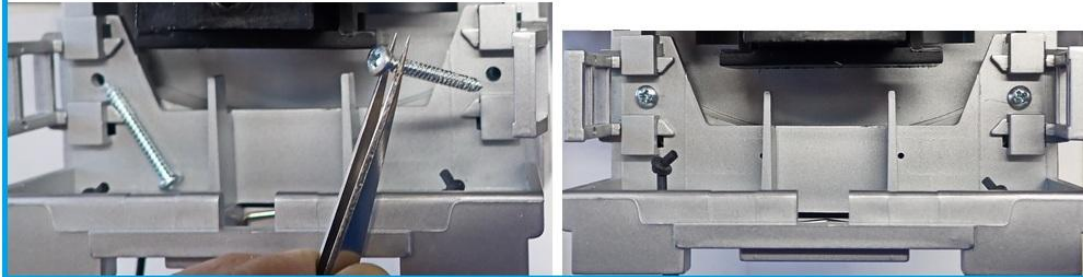
LGB P42 R Rev 4 CAMPAC

Lid

Lid

Ted Doskaris, 5-9-2026

Ancillary Rear Platform mount to chassis #4 x 1" self threading (2) screws



The visible areas of the CamPac boxes can be optionally painted to match the P42 livery.



Step 2 P42 Preparation

Step 2A - Loco Placement

Carefully place P42 on its back (underbody facing up) on a soft surface so that any delicate components (i.e. side mirrors) are not at risk of damage. Ensure it's braced so not to fall over. An example purpose made foam cradle is shown by Santa Clarita RR products, link <https://santaclaritarailroad.com>.



Place P42 on its back
Example foam cradle
by Santa Clarita
Railroad Products

Added foam at
end of cradle tilts
P42 to prevent loose screws from falling
within body



The trucks are to be temporarily unfastened from the chassis to facilitate removal of factory truck mount coupler tangs and couplers— described later.

It's advisable to tilt the P42 at an angle when working on it so loose screws won't fall within the car body.

This can be done as shown or place a spacer block under the end of the cradle.

Note: LGB cut levers are bulky and oversized. The REAR cut lever can interfere with coupler swing. It can be pulled-off and the center portion can be bent at an angle to mitigate this problem, and then reinstalled.

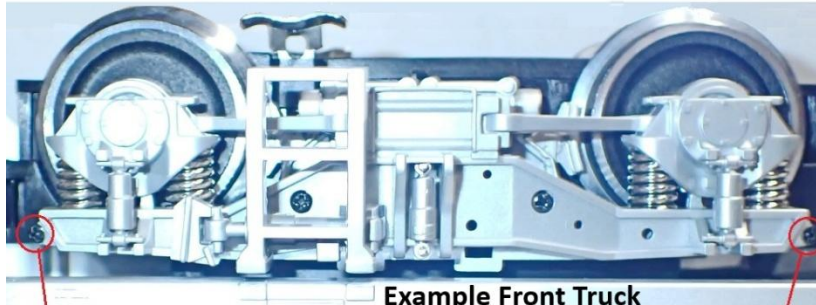


Sheet 4 of 14

Advisory: P42 metal cut levers "snaps" into or out of the 4 molded-in plastic clips on the face of front and rear platforms



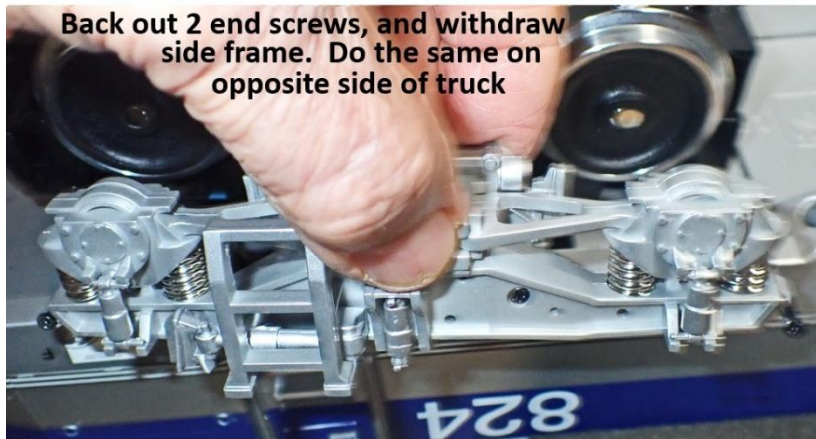
Step 2B
Remove P42 side frames from Trucks



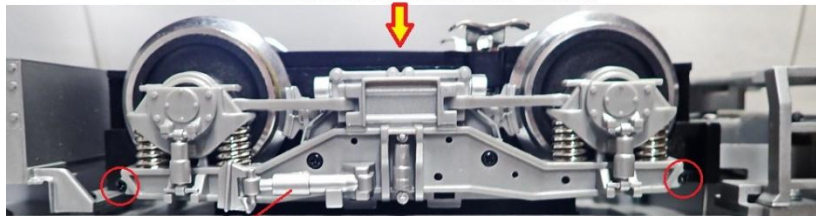
Example Front Truck



Back out 2 end screws, and withdraw side frame. Do the same on opposite side of truck



Do the same for the Rear Truck

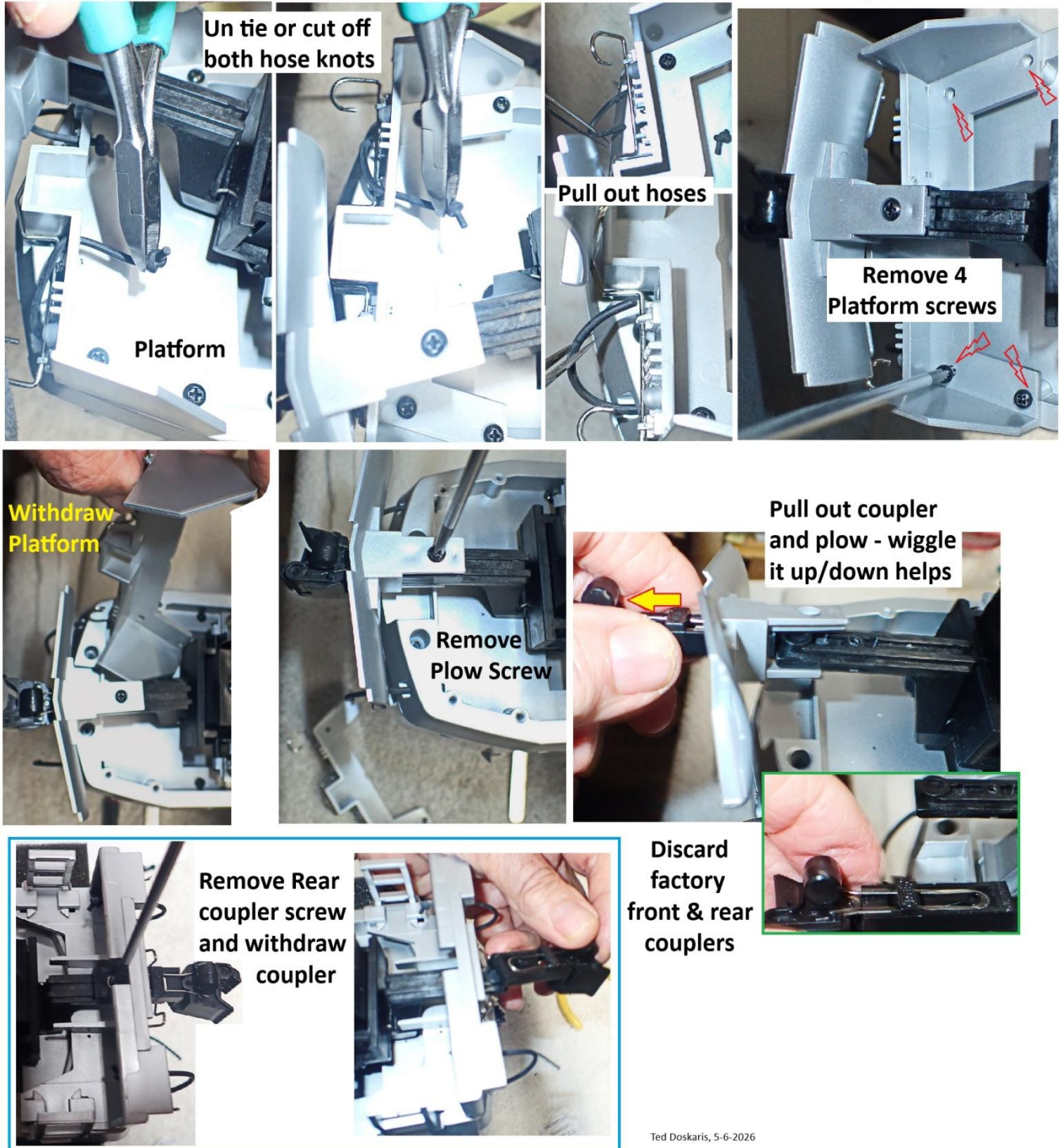


Note "Damper" orientation toward fuel tank
Sideframes can be installed with Damper facing wrong way



Step 2C Remove parts as illustrated below.

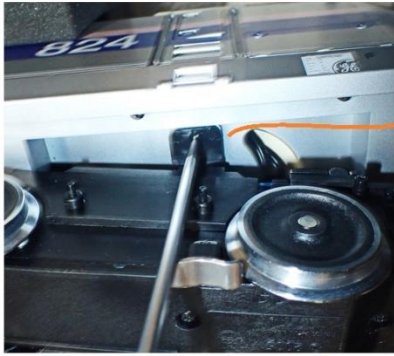
Process to Remove P42 Front Platform, Plow & Coupler AND Rear Coupler



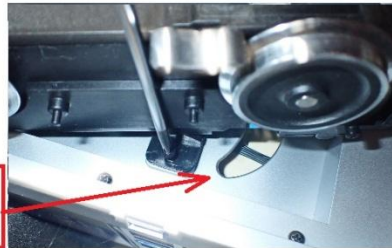
Ted Doskaris, 5-6-2026

Step 3 Temporarily unfasten trucks to remove factory coupler tangs

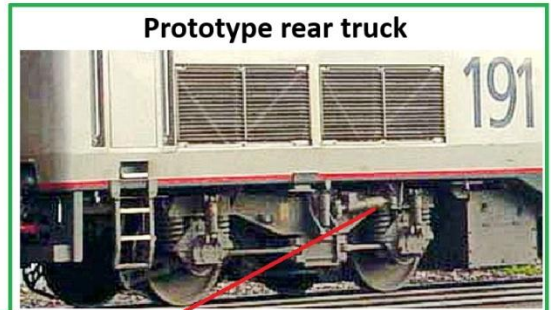
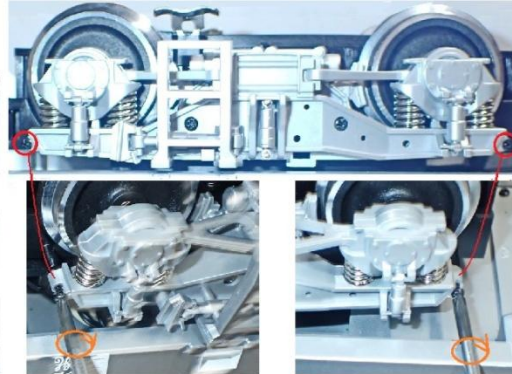
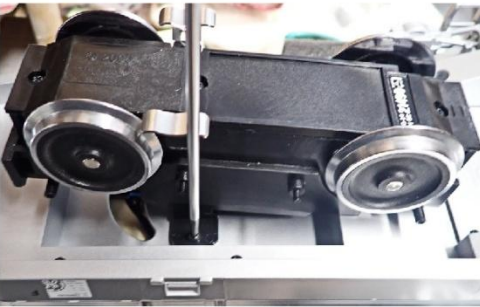
Having removed sideframes, unfasten trucks' metal bolster from chassis as illustrated
 Example shown is the front truck, but the rear truck is done the same way



Don't drop screws in chassis slot



Re-fasten trucks to chassis, and then re-attached the sideframes



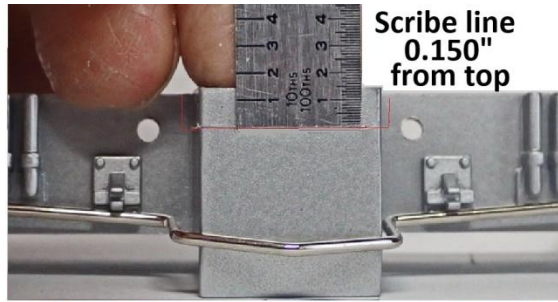
Prototype rear truck



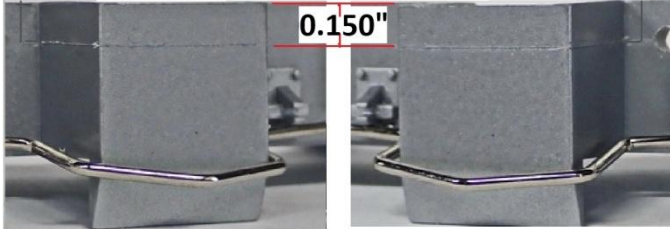
Step 4 Front Platform Modification

Perform P42 Front Platform modifications

Note: Metal cut lever can be left in place during modifications



Scribe line
0.150"
from top

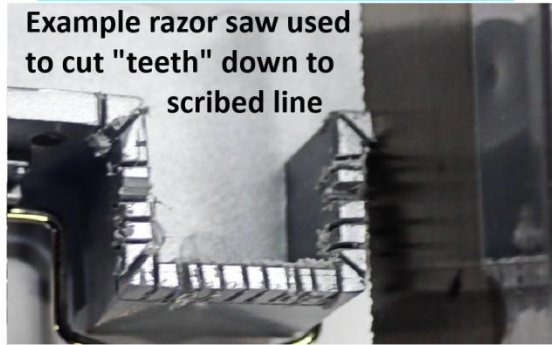


0.150"

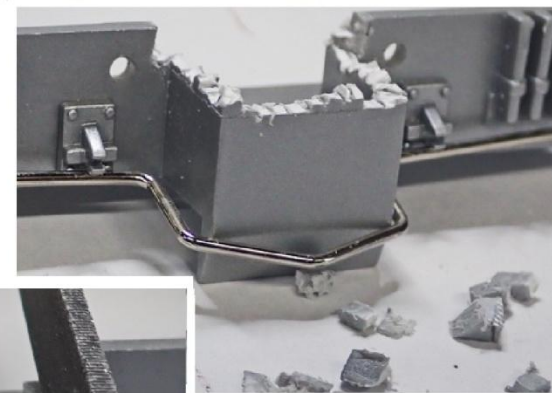
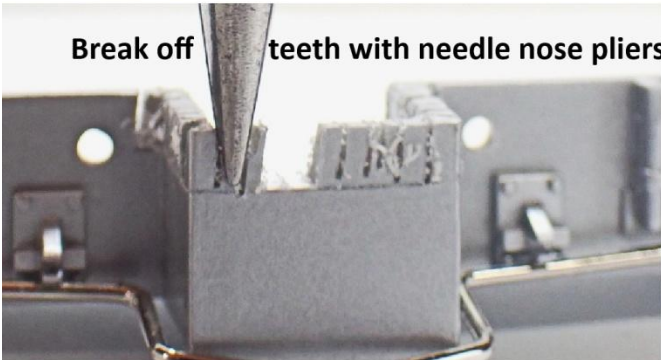


Top View
0.800" wide

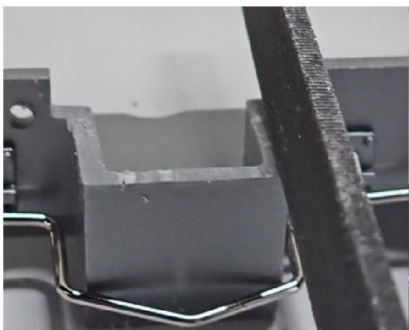
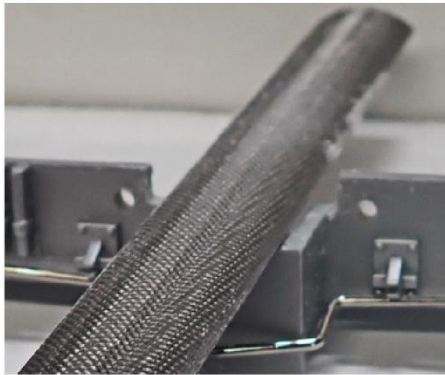
Example razor saw used to cut "teeth" down to scribed line



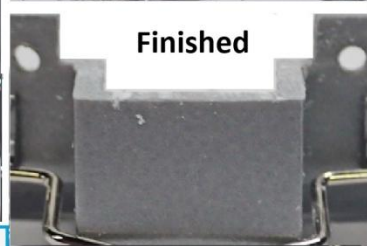
Break off teeth with needle nose pliers



File down to scribed lines, and square off corners

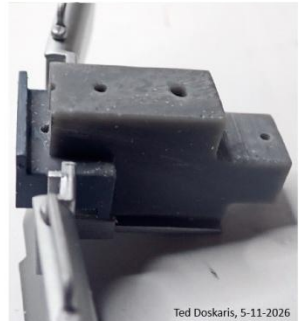
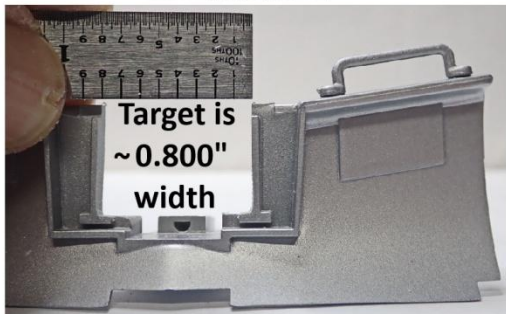
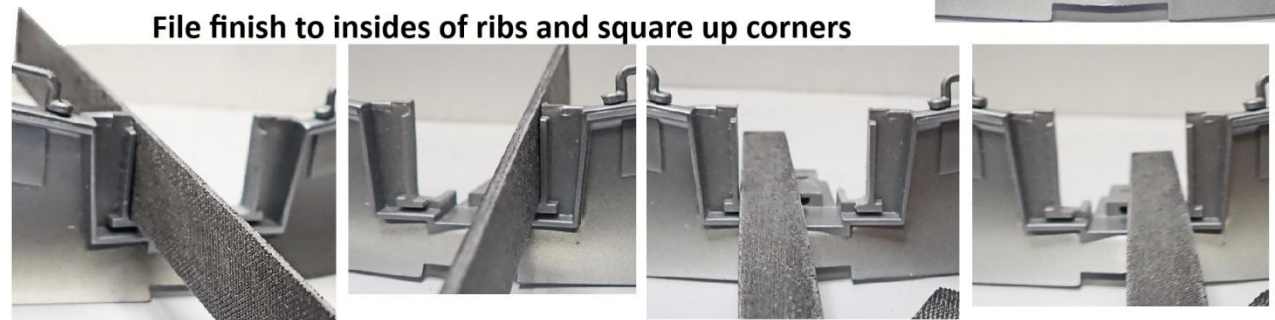
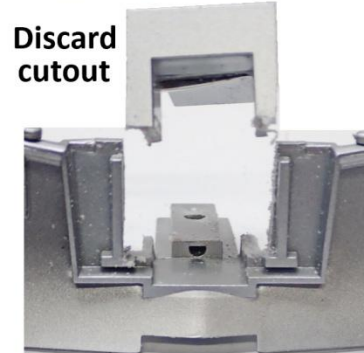
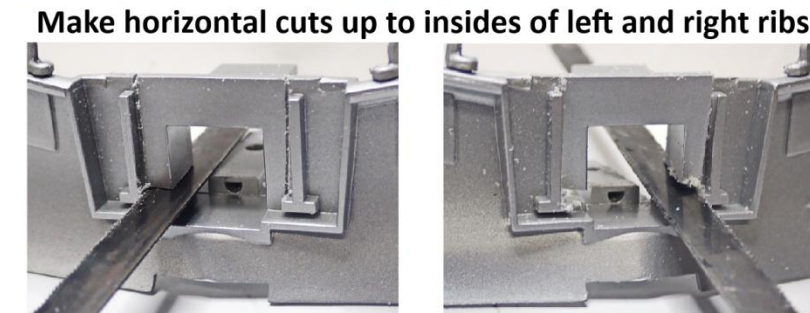
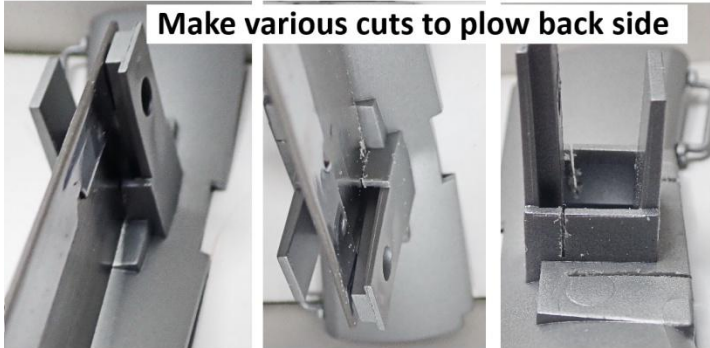
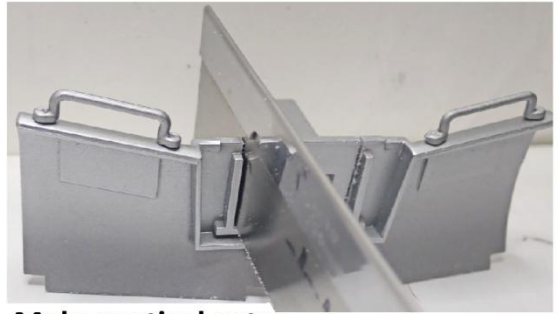
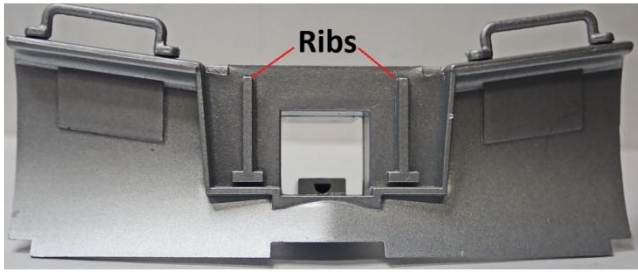


Finished



Confirm CamPac Box fits in the "Finished" opening - file opening as needed so it fits

Step 5 Front Plow Modification
Perform P42 Front Plow modifications as shown



Ted Doskaris, 5-11-2026

Step 6 Mount front CamPac Box on the P42



Step 7A Mount Rear Platform to Chassis

Process to Mount P42 Rear Platform

Because the P42 factory swinging platform is to be rigidly fastened to the chassis, it must be held down on the chassis, squarely in place, when holes are to be drilled



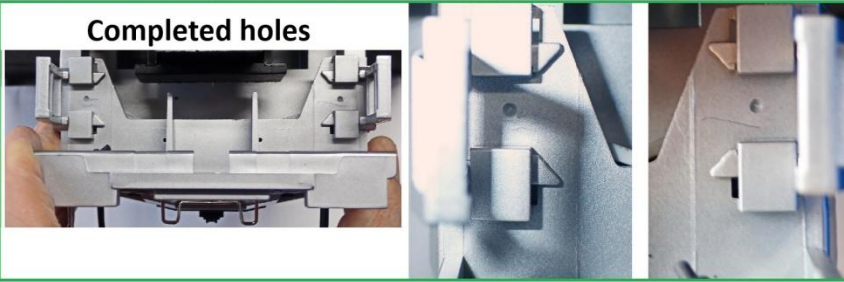
Using #43 bit, drill 2 holes thru the platform and chassis at the same time



Drill holes in this vicinity



Completed holes



Platform holes are to be drilled bigger with 1/8 inch bit. To prevent accidentally drilling into smaller chassis holes, slip in a piece of metal under platform holes



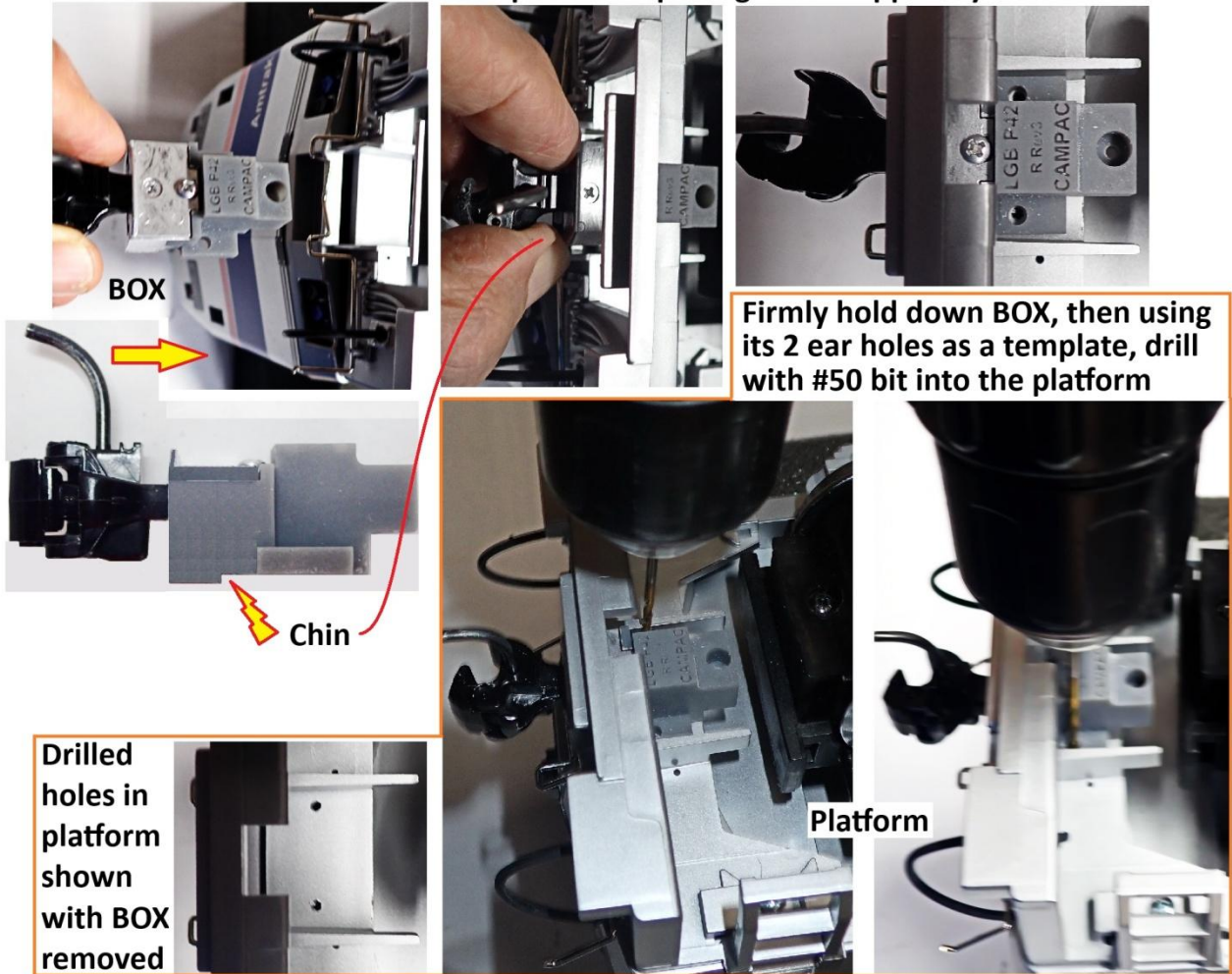
Now, only drill the 2 platform holes bigger with 1/8 inch bit

Fasten platform to chassis with #4 x 1 inch self threading screws

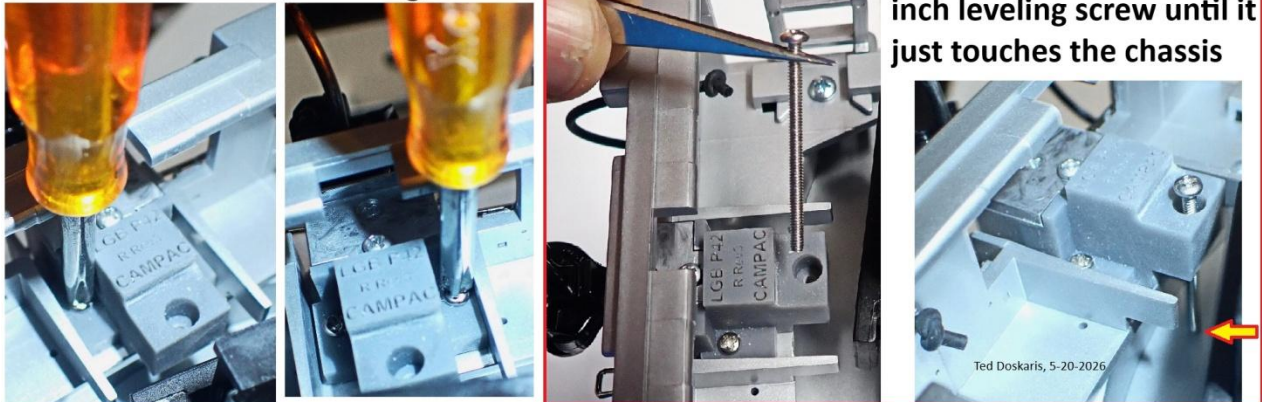


← Platform now rigidly fastened to chassis

Step 7B Mount CamPac Box on platform
Process to Mount Rear CamPac Box on P42 Rear Platform
Push CamPac Box down and into platform opening until stopped by its "chin"

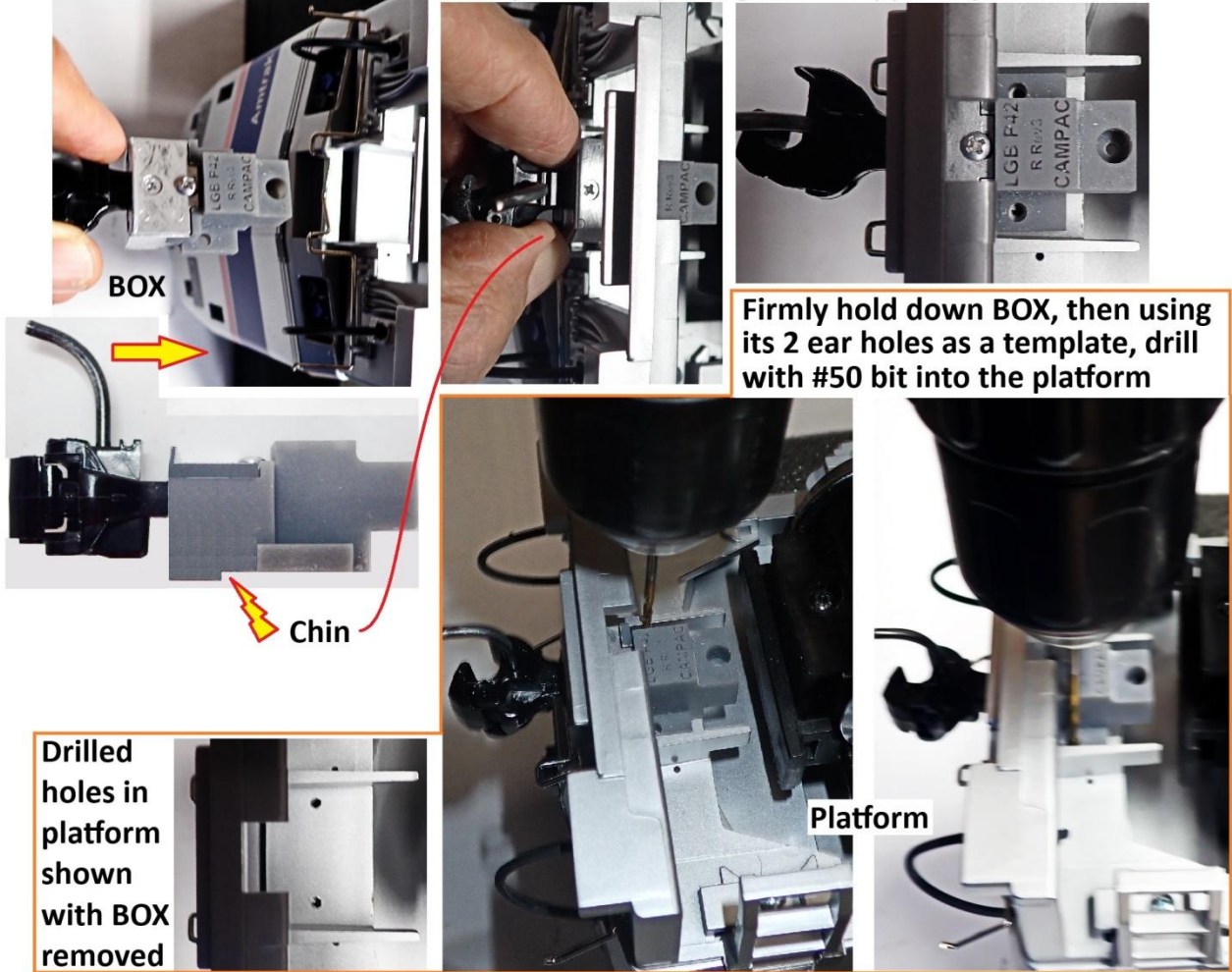


Fasten BOX on platform with M2.5 x 12mm self threading screws

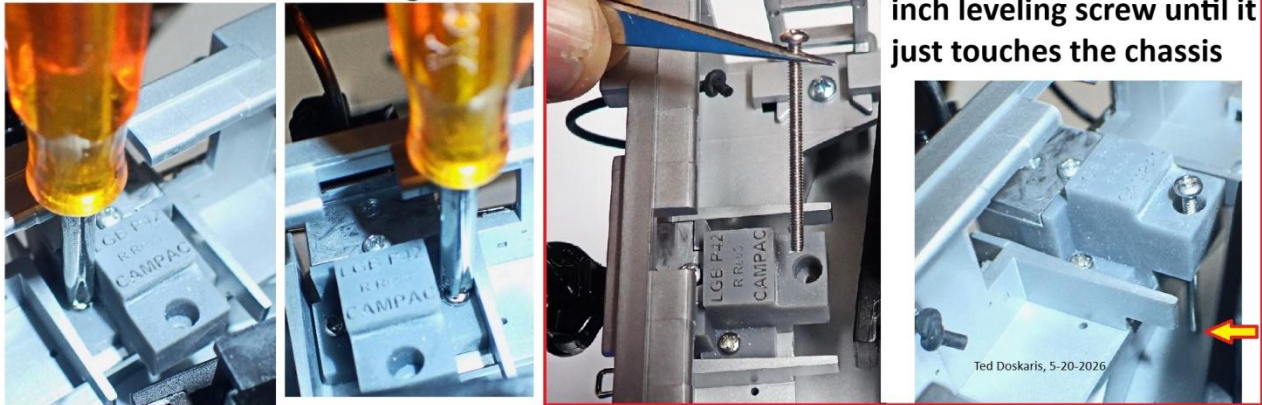


Step 7C Mount Rear CamPac Box on Platform

Process to Mount Rear CamPac Box on P42 Rear Platform
Push CamPac Box down and into platform opening until stopped by its "chin"



Fasten BOX on platform with M2.5 x 12mm self threading screws



Step8 Adjusting Couplers to Conform with Kadee 980 gauge

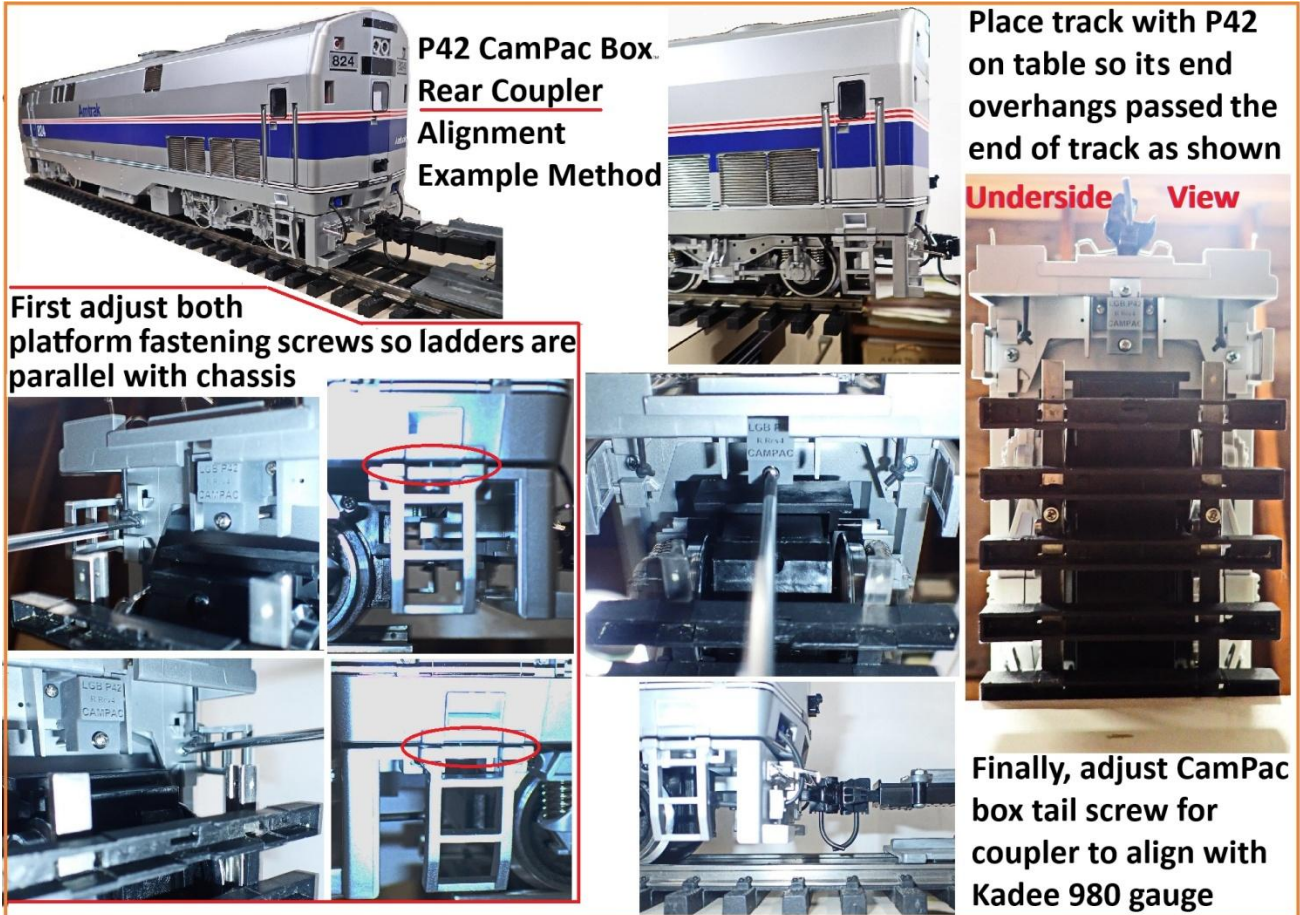
P42 CamPac Box. Rear Coupler Alignment Example Method

Place track with P42 on table so its end overhangs passed the end of track as shown

Underside View

First adjust both platform fastening screws so ladders are parallel with chassis

Finally, adjust CamPac box tail screw for coupler to align with Kadee 980 gauge



P42 CamPac Box. Front Coupler Alignment Example Method

Place track with P42 on table so its nose overhangs passed the end of track as shown

Underside View

BOX mount screw tightness can affect alignment, too

Finally, adjust CamPac box tail screw for coupler to align with Kadee 980 gauge



DONE!