

USA Trains 4 Bay Cylindrical Hopper Car CamPac Box™ Install Guide

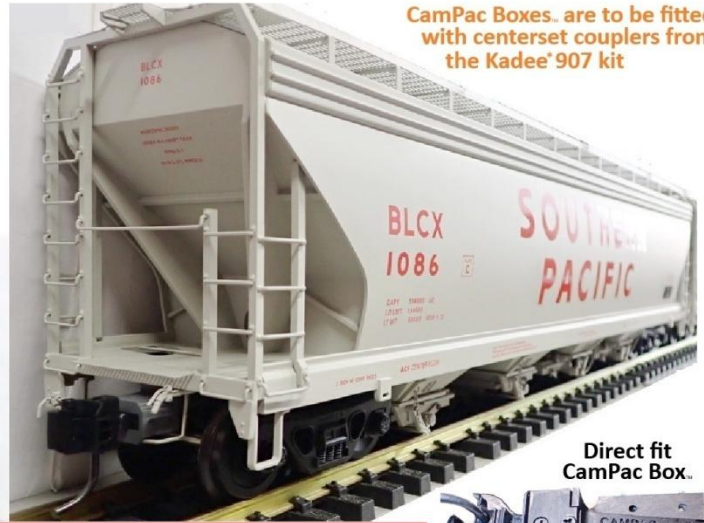
Ted Daskaris, 9-16-2025

Two types of CamPac Boxes are available for USA Trains 4 bay hopper car

The car can operate with both types down to 8 foot diameter track

Type 1 Direct Fit shown here on GWS & SP cars

CamPac Boxes are to be fitted with centerset couplers from the Kadee® 907 kit



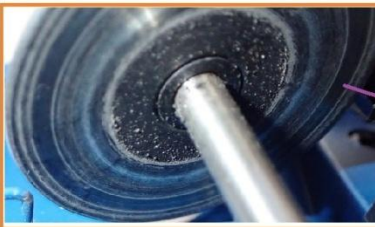
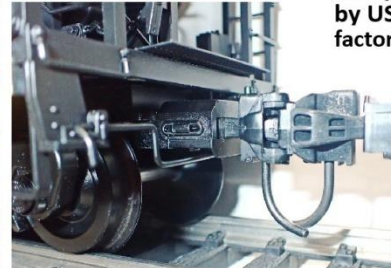
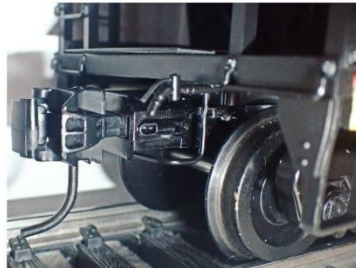
Direct fit CamPac Box.



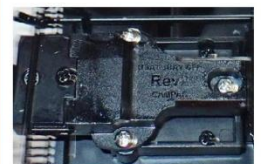
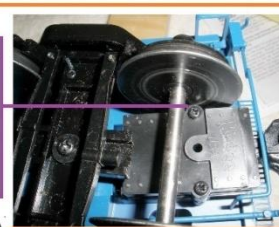
Type 2 CamPac Box to mount on factory Adapter/spacer shown here on KCS car



CamPac Box™ replacement for bulky Kadee® 906 box intended by USA Trains to mount on factory adapter / spacer

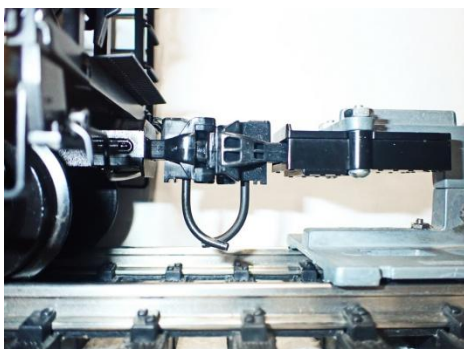


Example Kadee® 906 bulky coupler box where wheel backside shows circular rings because of rubbing on the box when car operating on 8 foot diameter track curves. Accordingly, car operation exhibits excessive drag.



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

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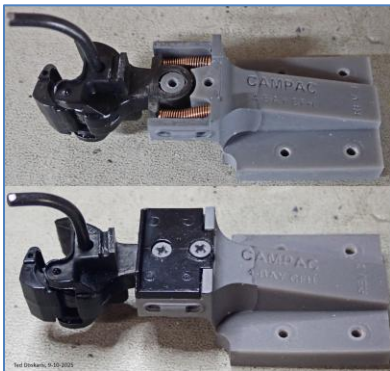
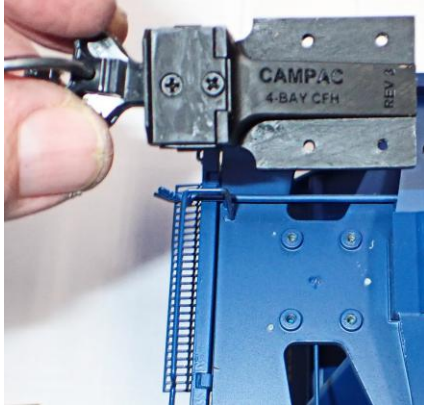


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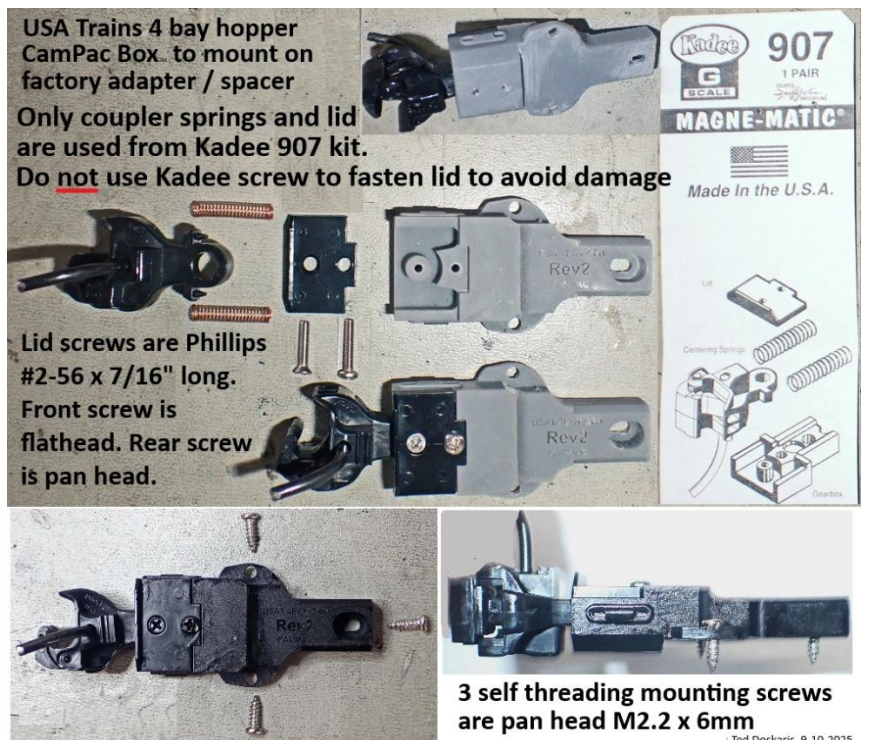
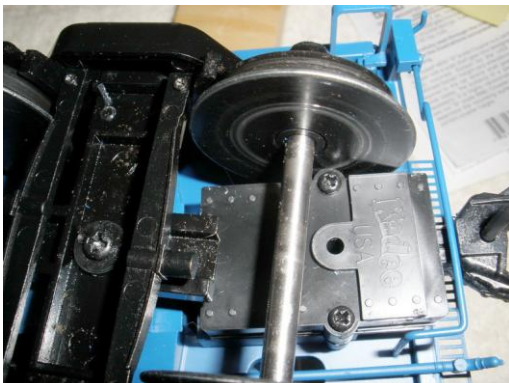
CamPac Kit Parts Include two versions:

Not included, the installer is to obtain the **Kadee 907 kit** and assemble the CamPac Boxes™ - Illustrated below.

Type 1 Direct Fit – no adapter/spacer used



Type 2 box is to mount on USA Trains adapter / spacer. Typically used when replacing the bulky Kadee 906 box



The CamPac box assembly can be painted to a desired color – example shown below.

Be sure to not let wet paint get into mouth of coupler box & mechanism or coupler may not freely swing.

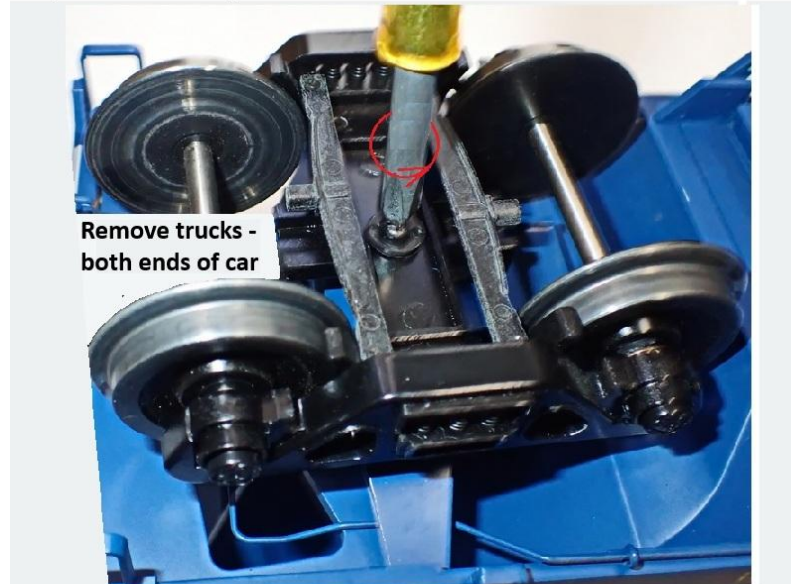
If this happens, the coupler can be swung to extreme to scrape away dry paint from coupler ears with a razor knife, then do the other side



Car Preparation

Preparation for Body Mount CamPac Boxes™ fitted with Kadee centersets

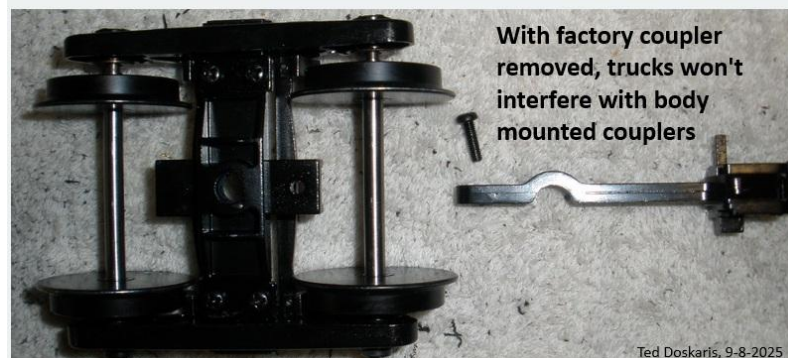
Save factory
truck mounting
screws and
washers



Remove trucks -
both ends of car



Remove factory
coupler from
trucks



With factory coupler
removed, trucks won't
interfere with body
mounted couplers

Ted Doskaris, 9-8-2025

Cut Lever Issues to resolve for USA Trains 4 Bay Hopper Car
 Body mount couplers need to use the factory optional cut levers to clear the coupler box

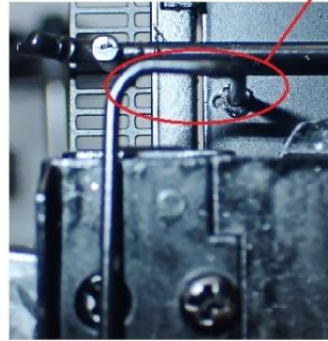
Cut Levers

This illustration identifies problem issues with cut levers and shows how to remove or replace them.

Caution: The little plastic eyelet is fragile
 The installation of the USAT optional cut levers is to be done later after the CamPac boxes are installed. –described on next sheet



Extract the shallow factory cut lever from this end first



Install optional cut lever in reverse order of removal



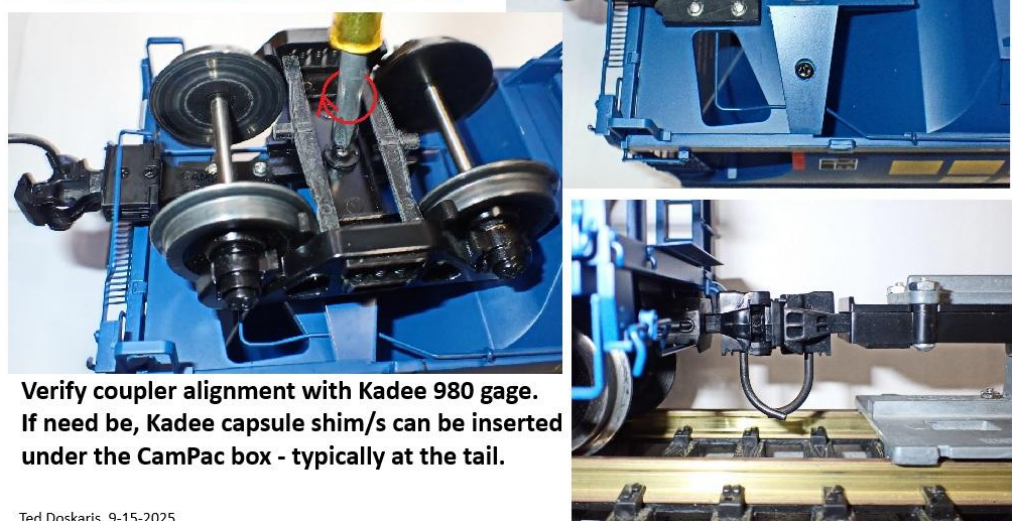
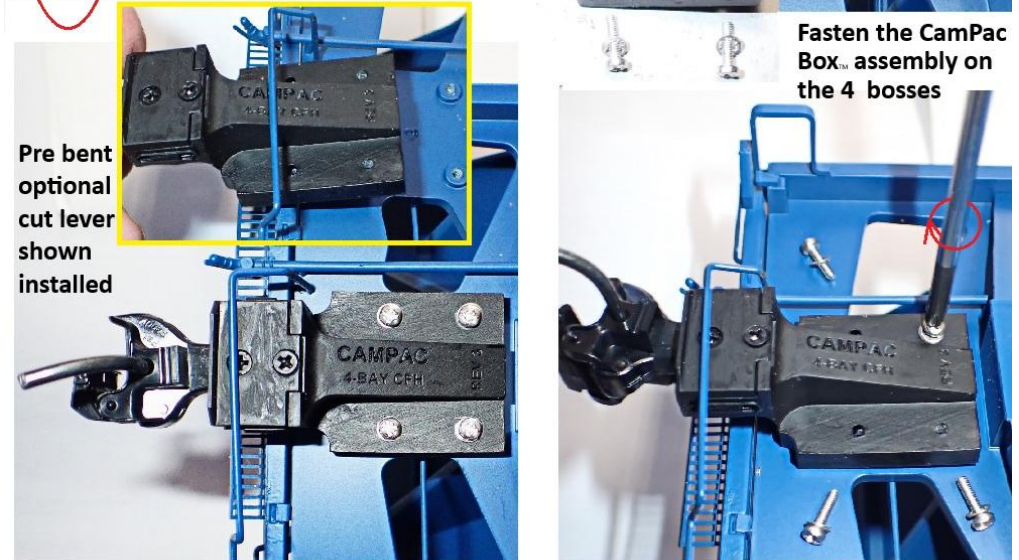
Bend cut lever as shown

Completed



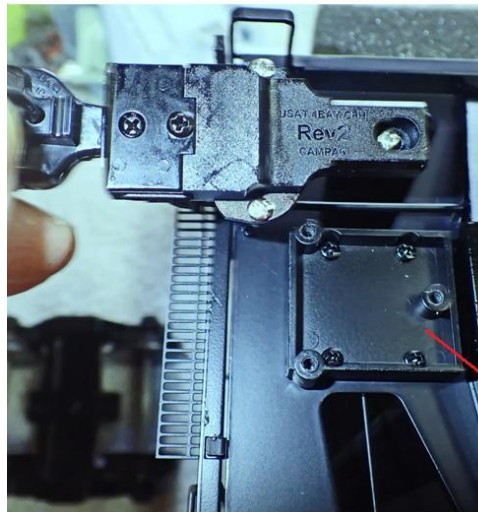
Install the type 1 Direct Fit CamPac Box™ on USA Trains 4 Bay Hopper Car
First, remove factory cut levers and adapter/spacer
- same both car ends

See prior sheet for
cut lever info.

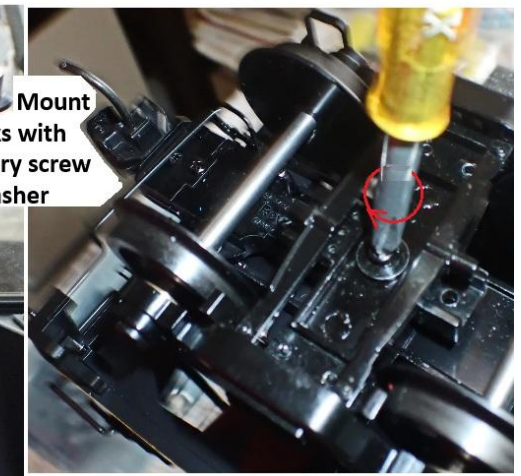
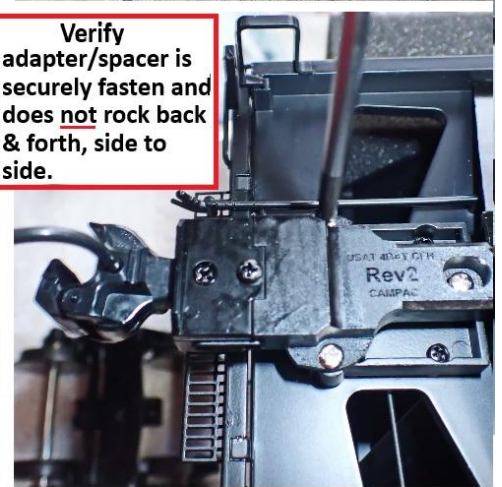


Install the type 2 CamPac Box[®] on the USAT 4 bay Hopper Car having adapter/spacer
- same both car ends

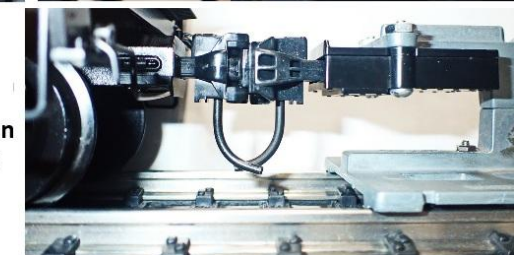
See sheet 4 for cut lever info



Verify adapter/spacer is securely fasten and does not rock back & forth, side to side.



Verify coupler alignment with the Kadee 980 gage.
If need be, typically a thin Nylon washer can be put in between the CamPac box tail and adapter/spacer on the screw.



!!!***DONE!!!***

Car operation is on 8 foot diameter track (shown below) or greater.
(On "S" bends, a straight track the distance of the longest car must be placed between opposite diverging paths.)

