



OWNERS MANUAL

HELUX PIN BOX

⚠ WARNING

The "WARNING" symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual.

Failure to follow instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including voiding of the component warranty.

⚠ CAUTION

The "CAUTION" symbol above is a sign that a safety risk is involved and may cause personal injury and/or product or property damage if not safely adhered to and within the parameters set forth in this manual.

Always wear eye protection when performing service, maintenance or installation procedures. Other safety equipment to consider would be hearing protection, gloves and possibly a full face shield, depending on the nature of the task.

SAFETY INSTRUCTIONS

Read and understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage, including voiding of the LCI limited warranty.

Introduction

Curt leads the way with innovative 5th Wheel pin box technology. The new Helux Pin Box uses time-tested Curt Coil Spring technology to provide an unparalleled ride, reducing chucking and absorbing bumps. The shock absorber dampens oscillation and reduces bouncing.

Additional information about this product can be obtained from [lci1.com/support](https://support.lci1.com/support) or by downloading the free LippertNOW app in Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users. App Store® and iPad® are registered trademarks of Apple Inc. Google Play™ and Android™ are trademarks of Google Inc.

Information regarding the assembly and components of this product can be obtained from [https://support.lci1.com/curt-\(rv-products\)/](https://support.lci1.com/curt-(rv-products)/).

Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

Tow Rating Weights Specifications (max.) per Pin Box

Do not exceed:

- Tow vehicle weight rating; Helux Pin Box maximum rating (Fig. A)
- Gross trailer weight (trailer + full water tanks + cargo)
- Pin weight rating (Fig. B)

Trailer weight should be lowest of the tow rating weights to ensure safe towing.

Be sure pin box bolts and nuts are tightened and secure.

Make sure that the 5th wheel coupler located in the tow vehicle is mounted properly according to the instructions of the 5th wheel manufacturer.

In addition, make sure that it is in good working condition. A non-functional or poorly working coupler will affect pin box performance, resulting in an unsafe towing condition.

Make sure the 5th wheel connection is never located behind the center of the drive axle.

After all nuts and bolts have been tightened, attach trailer to tow vehicle.

⚠ DANGER | DANGER | PELIGRO

DO NOT EXCEED VEHICLE MANUFACTURER'S RECOMMENDED TOWING CAPACITY. THE CAPACITY OF THIS PRODUCT MUST BE EQUAL TO OR GREATER THAN THE GROSS VEHICLE WEIGHT RATING OF THE RV ON WHICH IT IS INSTALLED.

NE PAS DÉPASSER LA CAPACITÉ DE REMORQUAGE RECOMMANDÉE PAR LE FABRICANT DU VÉHICULE. LA CAPACITÉ DE CE PRODUIT DOIT ÊTRE ÉGALE OU SUPÉRIEURE AU POIDS NOMINAL BRUT DU VÉHICULE RÉCRÉATIF SUR LEQUEL IL EST INSTALLÉ.

NO EXCEDA LA CAPACIDAD DE REMOLQUE DE SU VEHICULO RECOMENDADA POR EL FABRICANTE. LA CAPACIDAD DE ESTE PRODUCTO DEBE SER IGUAL O MAYOR AL VALOR NOMINAL DEL PESO BRUTO DEL VEHICULO RECREATIVO EN EL QUE SE INSTALE.

24,000 LBS.

MAXIMUM CAPACITY
POIDS MAXIMUM DE LA CAPACITE DU PIVOT D'ATTELAGE DE REMORQUE
10 886,2 KG CAPACIDAD DE LA CAXA CONECTORA

Fig. A

⚠ WARNING | AVERTISSEMENT | ADVERTENCIA

DO NOT CUT, DRILL OR ALTER. DO NOT ADD OTHER COMPONENTS OR SYSTEMS TO THIS PRODUCT. INSPECT EACH COMPONENT AND ENSURE ALL FASTENERS ARE SECURE PRIOR TO TOWING.

NE PAS COUPER, PERCER OU MODIFIER. NE PAS AJOUTER D'AUTRES COMPOSANTS OU SYSTEMES A CE PRODUIT. INSPECTER CHAQUE COMPOSANT ET S'ASSURER QUE TOUTES LES FIXATIONS SONT BIEN FIXÉES AVANT LE REMORQUAGE.

NO CORTE, PERFORE NI ALTERE. NO AGREGUE OTROS COMPONENTES O SISTEMAS A ESTE PRODUCTO. INSPECCIONE LOS COMPONENTES, Y ASEGURESE DE QUE TODOS LOS SUJETADORES ESTEN SEGUROS ANTES DE REMOLCAR.

4,740 LBS.

MAXIMUM PIN WEIGHT
POIDS MAXIMUM DE L'ENGACHE 2 150,9 KG
PESO MAXIMO DEL ENGACHE 2 150,9 KG

Fig. B

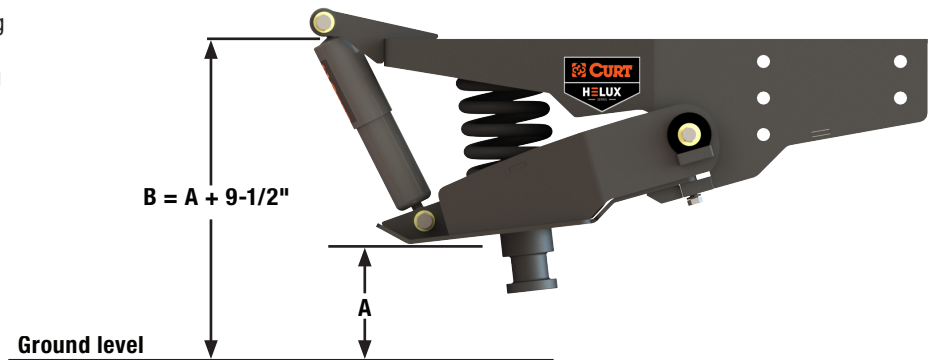
HITCHING & PULL TEST

Preparation

Note: The 5th Wheel should always be towed while level. Adjustment of the pin box mounting height, the tow vehicle height or suspension may be necessary to accomplish a level towing condition.

⚠ CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.



NOTICE

Note: Be sure to consult your hitch manufacturer's owner's manual for proper hitching procedure.

⚠ WARNING

Failure to follow these instructions may result in death or serious injury.

Step 1

Place chocks firmly against the front and rear of each trailer tire to prevent movement, either forward or backward. If necessary, lower the tow vehicle's tailgate to allow the pin box to clear.

Note: The clearance of the lowered tailgate to the trailer needs to be monitored during hookups, since some combinations of truck and trailer have little or no clearance.

Step 2

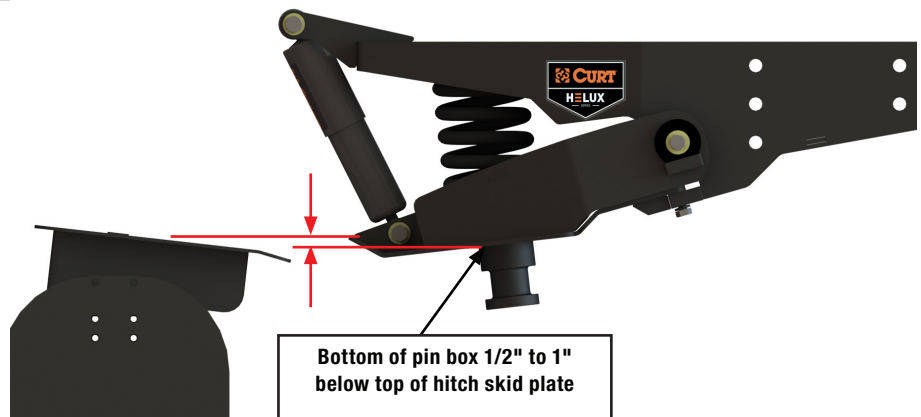
Using the trailer landing gear, adjust trailer height per the manufacturer's recommendation so the bottom of the trailer's pin box is 1/2" to 1" **below** the hitch skid plate.

⚠ WARNING

Failure to follow these instructions may result in the kingpin being too high and coming to rest on top of closed jaws or not completely inside the jaw. This could result in the trailer separating from the hitch which may result in death or serious injury.

⚠ WARNING

Do not attempt to hitch the trailer by using trailer jacks to lower the trailer and kingpin. This could result in the kingpin coming to rest on top of the skid plate instead of within the hitch opening, which may result in death or serious injury.



Step 3

Back the truck slowly toward the trailer until the truck's hitch contacts the bottom of the pin box and the kingpin slides into the receiver.

Note: During the hitching maneuver, the bottom of the trailer's pin box should come into contact with the hitch skid plate ramp.

Latch the 5th wheel hitch in closed position per the instructions of the 5th wheel hitch manufacturer.

⚠ WARNING

Failure to perform a pull test may result in severe property damage, serious personal injury or death. Failure to secure the tow vehicle and trailer from movement during procedure could result in severe property damage, serious personal injury or death.

Step 4

Securely chock the trailer tires. The trailer landing gear should be firmly on the ground to support the trailer, and the tow vehicle must be in park with the emergency brake engaged.

Note: Make sure tow vehicle and trailer are properly secured against movement during the procedure.

Step 5

Return to the cab of the tow vehicle, release the emergency brake and then apply the trailer brakes.

Step 6

Slowly pull the trailer forward with the tow vehicle.

If the tow vehicle is properly hitched, the wheel blocks and trailer brakes should keep the truck from moving forward.

If the trailer is not properly hitched, the trailer will separate from the hitch and the truck will move forward while leaving the trailer behind.

Note: If the trailer separates from the tow vehicle, repeat the hitching procedure.

Step 7

After successfully performing the Pull Test, fully raise the landing gear per manufacturer's recommendations.

Step 8

Check and inspect all electrical circuits for proper operation, including clearance lights, turn signals and stop lights.

Step 9

Remove and store all trailer wheel blocks.

TROUBLESHOOTING & MAINTENANCE

What is happening	What should be done
Trailer not level	Adjust pin box or hitch accordingly.
Excessive chucking in tow vehicle	Inspect pin box coil spring for condition and any possible damage. Be sure cargo is balanced from side to side and front to back.
Excessive noise from pin box area	Verify that the pin box is securely attached to the 5th wheel. If the king pin is excessively worn, the jaw plate will need to be replaced. Check the condition of the coil spring and replace if damaged or broken. Look for damage on shock or a disconnected shock. Reconnect or replace shock if needed. Hitch mechanisms can also cause noise. Verify that unwanted noise is not coming from the hitch. The hitch manufacturer can provide guidelines for this check.
Pin box too far open (hitch plate tilted toward the cab of the truck) when the trailer is unloaded	Observe the pin box and hitch plate once the trailer is loaded. The pin box will close down as the unit is loaded to the proper pin weight.

Maintenance

Always check pin box and its components for damage or any loose nuts and bolts.

Be sure the trailer pulls in a level condition before traveling.



For Service Manual, Replaceable Parts and Additional Troubleshooting

Scan the QR code:

