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*CURTMFG GOOSENECK Connect Fifth Wheel Gooseneck Pin Box User Manual*



# AFTERMARKET MANUAL

## GOOSENECK PIN BOX

### NOTICE BEFORE PURCHASE/INSTALLATION

Purchase verification required. See instructions below for pin weight measuring process.  
Returns will not be accepted once product has been installed.

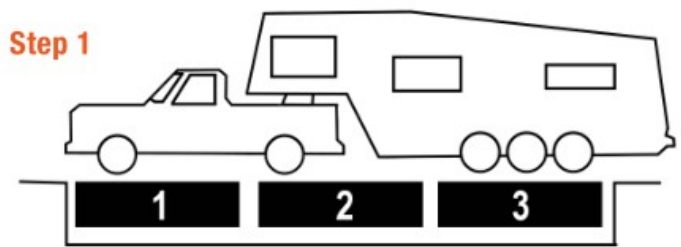
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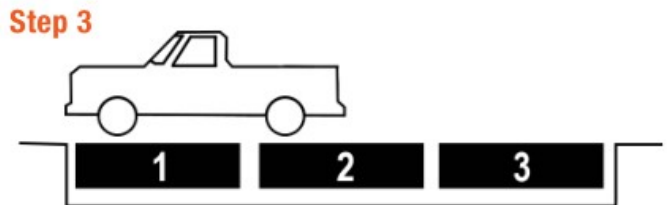
## **Purchase Verification**

The CURT® Helux “Gooseneck” Pin Box is offered in different pin weight ratings. To accurately order the Gooseneck that supports the weight of your 5th wheel, you will need to know the pin weight. The best way to attain the pin weight is to take your 5th wheel to a certified scale, i.e. CAT Scale.

For additional information, visit <https://catscale.com/how-to-weigh/>.



**Step 2: Scale #1 + Scale #2 = A**



**Step 4: Scale #1 + Scale #2 = B**

**Step 5: A - B = Pin Weight**

**Note:** Be sure your 5th wheel is fully loaded with everything you would normally have when travelling or camping including ATVs, golf cart, motorcycles, snowmobiles, etc.

1. Connect the 5th wheel to the tow vehicle and drive onto the scale; front axle on Scale 1, rear axle on Scale 2 and the trailer axles on Scale 3.
2. Note these weights and total the weights from #1 and #2.
3. Disconnect the 5th wheel and reweigh just the tow vehicle on scales #1 and #2.
4. Note these weights and total the weights from #1 and #2.
5. Subtract the weight total in step 4 from the weight total in step 2 to find the actual hitch weight.

Pin weight can also be approximated by multiplying the GVWR of the 5th wheel by 22% (0.22). This weight result will provide you with approximate pin weight to match with the chart below. Depending on actual trailer weight and load distribution, approximate weight could vary from actual weight. For best results, getting the actual weight is preferred.

## Weight Carrying Capacity – Curt Helux Gooseneck Pin Box Kits

Pin Weight Calculated, see Purchase Verification

Part Number	Pin Weight <sup>1</sup> (Loaded - lb.)	Min. Pin Weight <sup>2</sup>	Max. Pin Weight <sup>3</sup>
2024044575	1650 - 2144	1350	2350
2024044574	2145 - 2484	1550	2700
2024044576	2485 - 2984	1800	3200
2024044577	2955 - 3469	2200	3900
2024044578	3470 - 3964	2450	4300
2024044579	3965 - 5000	2800	5000

1. Optimal pin weight value range when choosing a Curt Helux Gooseneck Pin Box.
2. Unloaded – No cargo and empty fresh, black, and gray water tanks.
3. Loaded – Cargo loaded including toy hauler area, tanks travel-ready.

**Note:** The Gooseneck models are determined by the weight rating of the spring used between the upper and lower jaws.

## Product Photo



Fig. 1

## Level of Difficulty

### Moderate

Installation difficulty levels are based on time and effort involved and may vary depending on the installer level of expertise, condition of the vehicle, and proper tools and equipment.

## Tools Required

SAE socket set	SAE wrenches
Tape measure	Box-end wrench set
Safety glasses	Air compressor
Level	--

## ASSEMBLY

### Parts List

#	Qty	Description
1	1	Gooseneck assembly
2	10	Hex bolt, 5/8"-11 x 1 3/4", grade 5
3	10	Serrated-flange nut 5/8"-11, grade 5
4	2	Safety Chains
5	1	Cable Release

## SAFETY INSTRUCTIONS

Safety glasses should be worn at all times while installing this product.



### WARNING

Never exceed the vehicle manufacturer's recommended towing capacity.

### NOTICE

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

This installation requires: Two or three people to help support the weight of the pin box as it is being lifted.

To help prevent damage to the product or vehicle, refer to the torque requirements when securing hardware during the installation process.

### Product Registration and Warranty

CURT stands behind our products with industry-leading warranties.

To get copies of the product warranties, register your purchase or provide feedback, visit: [warranty.curtgroup.com/surveys](https://warranty.curtgroup.com/surveys)

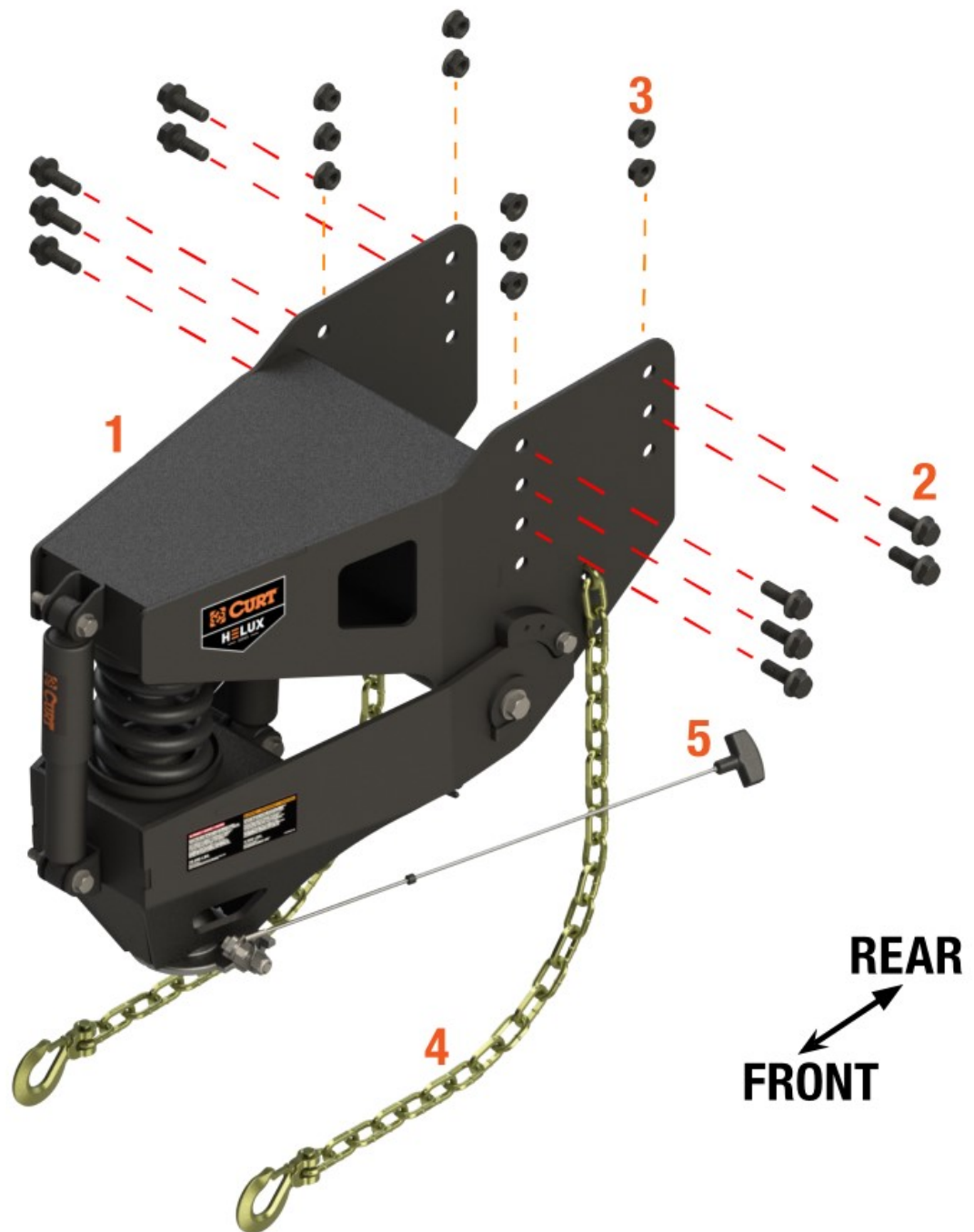


Fig. 2

## INSTALLATION



### WARNING

An unsupported pin box during product removal can result in death, serious personal injury, severe product and/or property damage. Properly support Gooseneck throughout installation.

### NOTICE

The pin box assembly weighs several hundred pounds. Installation and removal of pin boxes requires a minimum of two people. A forklift may be used to lift the Gooseneck into position.

The 5th wheel should always be towed while level. Adjustment of the Gooseneck mounting height, the tow vehicle height or suspension may be necessary to accomplish a level towing condition.

### Step 1

Level the trailer front-to-back using the landing gear.

Remove the fasteners securing the old pin box and carefully lower it from the mounting bracket and move it from the area.



### **WARNING**

Be sure to properly support pin box before removing mounting bolts.

### Step 2

Back the tow vehicle under the 5th wheel's upper deck.

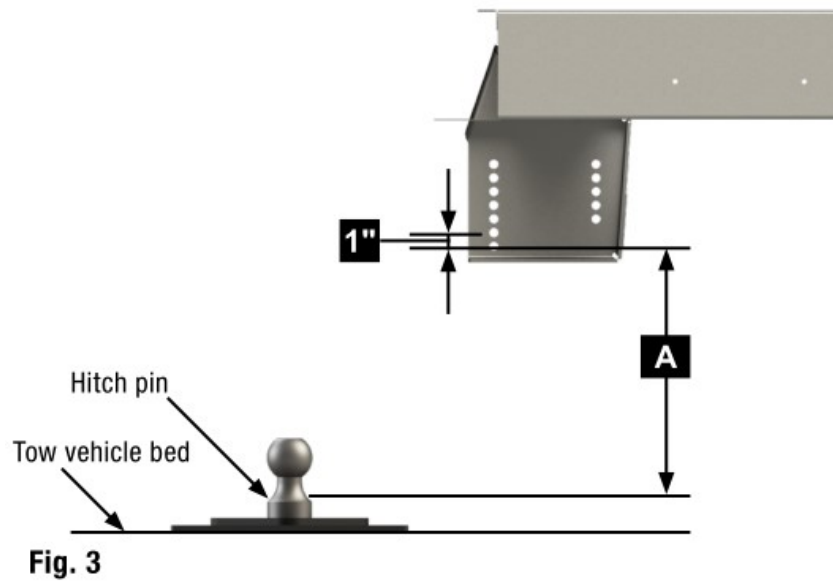
Measure from the collar of the hitch pin up to the first set of hole(s), on center, in the upper deck mounting brackets. Note the dimension (A).

Pull the tow vehicle away from the 5th wheel before installing the Gooseneck.

Lift the new Gooseneck and support it while positioning it at the appropriate height.

Mount the Gooseneck in the set of mounting holes that most closely keeps the 5th wheel level.

**Note:** The Gooseneck kit includes new mounting hardware. Do not reuse the mounting hardware from the previous pin box.

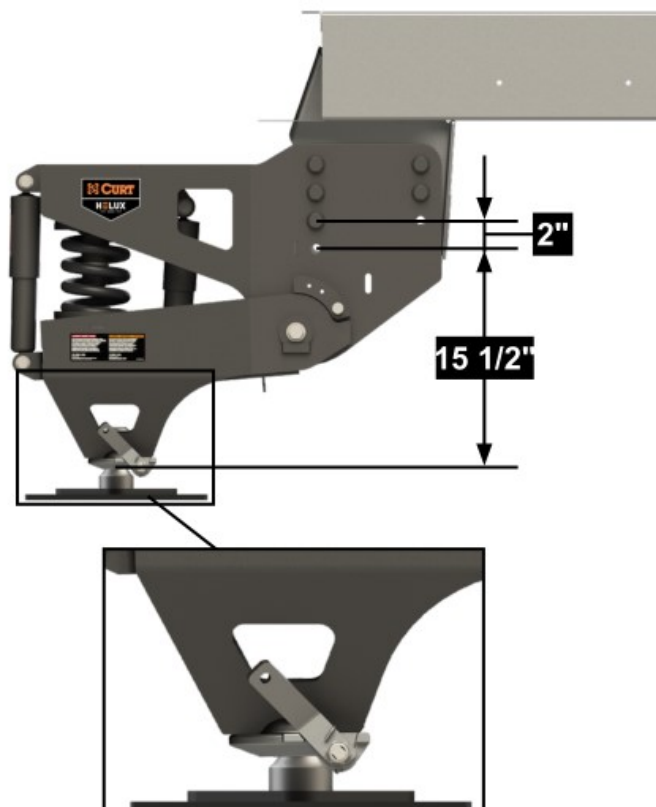


### Step 3

Once the Gooseneck is appropriately positioned, secure it with the supplied hardware kit.

Torque mounting bolts to 120 ft-lb $\pm$ 5 ft. lb.

Note: The CAUTION label provides instructions for the coupler lock.





# HITCHING



## WARNING

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

## NOTICE

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

### 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 Gooseneck 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

Measuring for Gooseneck clearance:

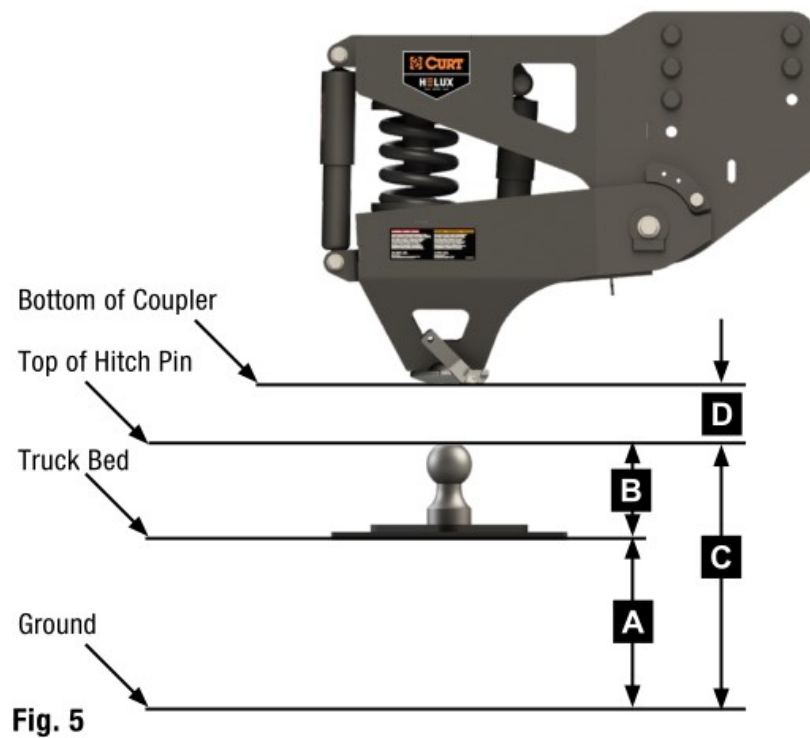
- A. With the tailgate down, measure from the ground to the bed of the tailgate.
- B. Measure from the truck bed to the top of the hitch pin.
- C. Add A and B together to find C.
- D. The measurement to the bottom of the coupler must be 2".



**WARNING** these instructions may result in the Gooseneck being too high and coming to rest on top of hitch pin or not completely inside Gooseneck receiver. This could result in the trailer separating from the hitch which may result in death or serious injury.



**WARNING** 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 and position the coupler directly over the hitch ball.

Lower the RV onto ball.

The coupler will automatically latch when lowered onto the ball.

**Note:** Be sure to connect the safety chains to the truck bed anchors.

### WARNING

Verify the hitch lock is in the locked position (Fig. 7). If the lock is in the unlocked position (Fig. 6), the procedure 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.

## UNHITCHING

### Step 1

Park the 5th Wheel into it's destination.

Chock the tires firmly, front and rear.

## Step 2

Disengage the Gooseneck coupler by pulling the cable release toward the rear, locking it into the cable stop.

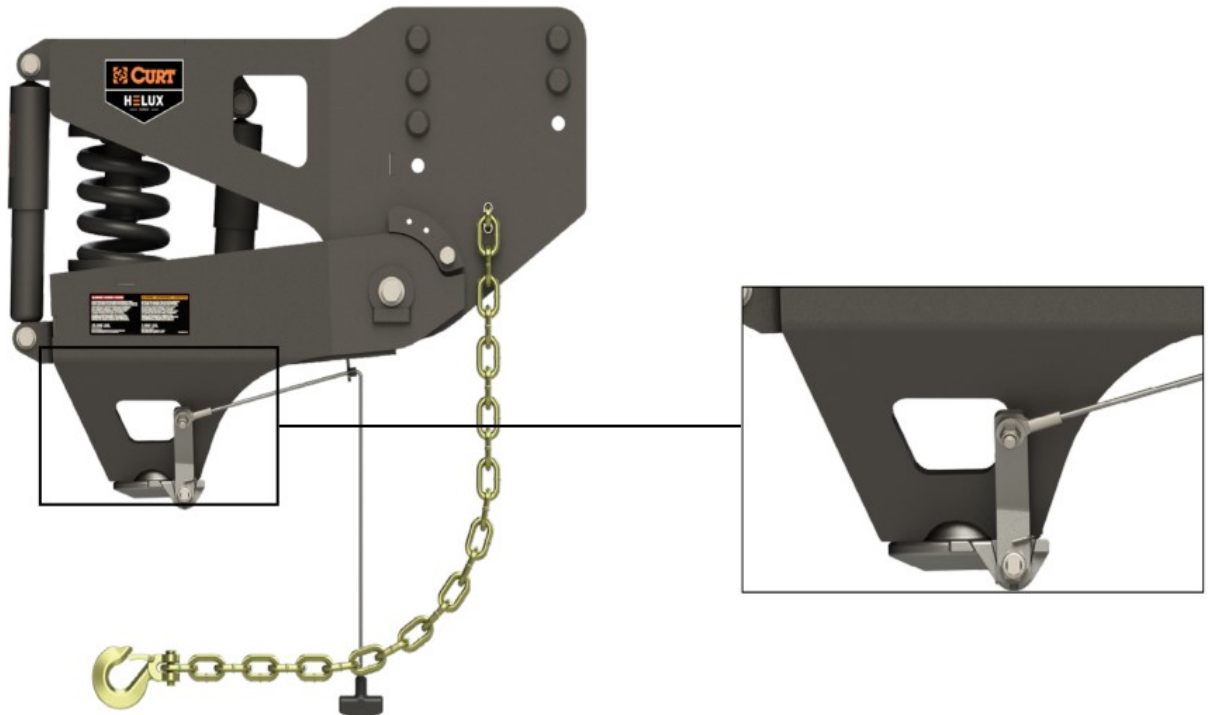


Fig. 6

## Step 3

Extend the landing gear to lift the front of the 5th Wheel until the Gooseneck clears the hitch pin.

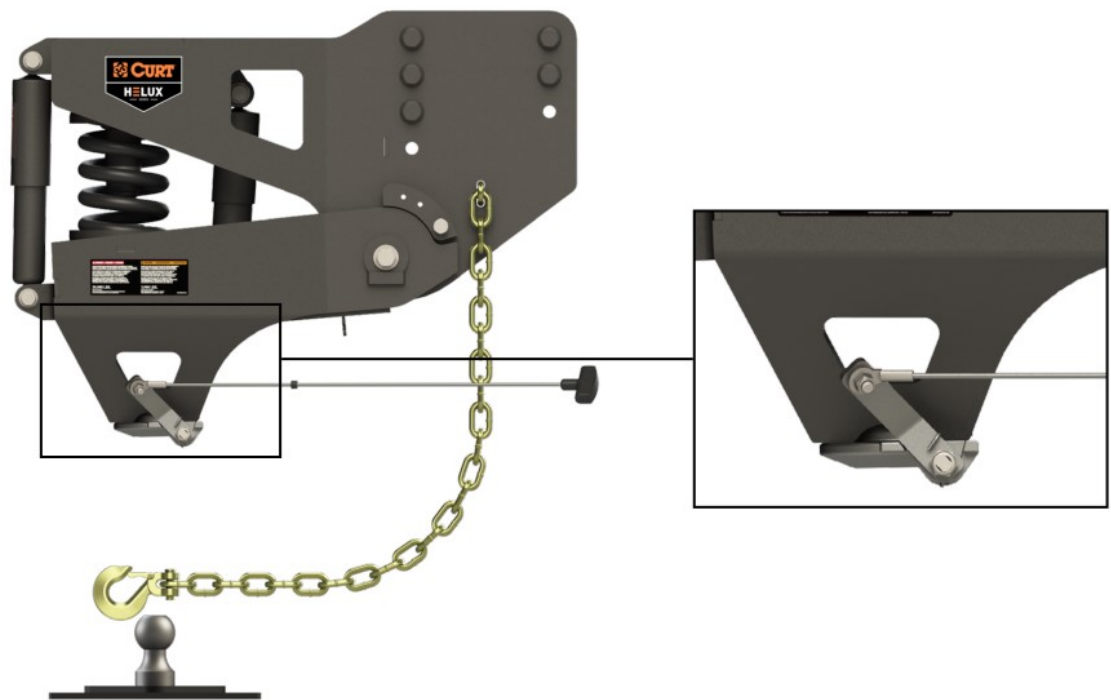


Fig. 7

## Step 4

Pull the tow vehicle clear of the 5th Wheel and level the RV.

## TROUBLESHOOTING & MAINTENANCE

What is happening	What should be done
Trailer not level	Adjust Gooseneck or hitch pin accordingly.
Excessive chucking in tow vehicle	Inspect Gooseneck coil spring for condition and any possible damage. Be sure cargo is balanced from side to side and front to back.
Excessive noise from Gooseneck area	Verify that the Gooseneck is securely attached to the 5th wheel. 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.
Gooseneck too far open (hitch plate tilted toward the cab of the truck when the trailer is unloaded).	Observe the Gooseneck and hitch pin area once the trailer is loaded. The Gooseneck will close down as the Unit is loaded to the proper pin weight.
The hitch ball could have excessive wear.	There is a grease zerk in the GN coupler. The coupler needs checked for grease and needs maintained.

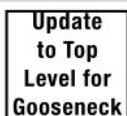
### Maintenance

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

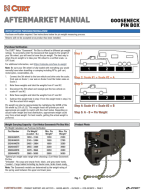
Be sure the trailer pulls in a level condition before traveling.

### For Service Manual, Replaceable Parts and Additional Troubleshooting

Scan the QR code:





# Documents / Resources

	<p><a href="#">CURTMFG GOOSENECK Connect Fifth Wheel Gooseneck Pin Box [pdf]</a></p> <p>User Manual</p> <p>2024044575, 2024044574, 2024044576, 2024044577, 2024044578, 2024044579, GOOSENECK Connect Fifth Wheel Gooseneck Pin Box, GOOSENECK, Connect Fifth Wheel Gooseneck Pin Box, Fifth Wheel Gooseneck Pin Box, Gooseneck Pin Box, Pin Box, Box</p>
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## References

- [User Manual](#)

 CURTMFG

 2024044574, 2024044575, 2024044576, 2024044577, 2024044578, 2024044579, box, Connect Fifth Wheel Gooseneck Pin Box, CURTMFG, Fifth Wheel Gooseneck Pin Box, Gooseneck, GOOSENECK Connect Fifth Wheel Gooseneck Pin Box, Gooseneck Pin Box, Pin Box

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