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TRAILER GATE LIFT ASSIST

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TRAILER GATE LIFT ASSIST

Structure Diagram



5807



5806

NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:



CustomerService@vevor.com

This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

INSTRUCTIONS

Thank you very much for choosing this trailer gate lift assist. Please read all of the instructions before using it. The information will help you achieve the best possible results.



Warning-To reduce the risk of injury, the user must read the instructions manual carefully.

Model and Parameters

Model	5807	5806
Weight of maximum tailgate or ramp	360 pounds	180 pounds
Height of tailgate or ramp	4 ft to 6 ft	4 ft to 6 ft
The height of the side rails above the trailer bed	10 to 24 inches	10 to 24 inches
Length	72 inches	72 inches
Installation site	Bilateral	Unilateral



Caution:

Always ensure that the tailgate is secured and locked in an upright position. This product is not intended to replace this important safety measure. Please note that this product does not make the tailgate weight-bearing, and it is essential that the opened tailgate always rests on firm ground. Never attempt to raise or lower the tailgate while anyone or anything is underneath it. Additionally, it is crucial to keep your hands away from all openings, rollers, or cables when using this product to avoid injury.



CAUTION

As there are many different sizes, weights, and designs of trailers and tailgates available in the market, some minor adjustments may be necessary to ensure that the Lift is functioning correctly. It is crucial to

exercise extreme caution during and after the initial installation of the Lift to ensure that it is working properly. Before installing, adjusting, or working on the Lift, always secure and lock your tailgate in the upright position. Check to ensure that there is not too much or too little lifting power on your tailgate. Never apply excessive force to raise or lower the tailgate; it should move with minimal effort in both directions. Always ensure that the rollers are turning freely and that the cable is in good condition and travels in the grooved portion of the rollers as it operates.

Tools required when assembly

➤ Measuring Tape	➤ 1/2-inch Metal Drill Bit	➤ Marker and Punch
➤ 2 Adjustable Wrenches	➤ Heavy Duty Power Drill	➤ Needle Nose Pliers

COMPONENTS

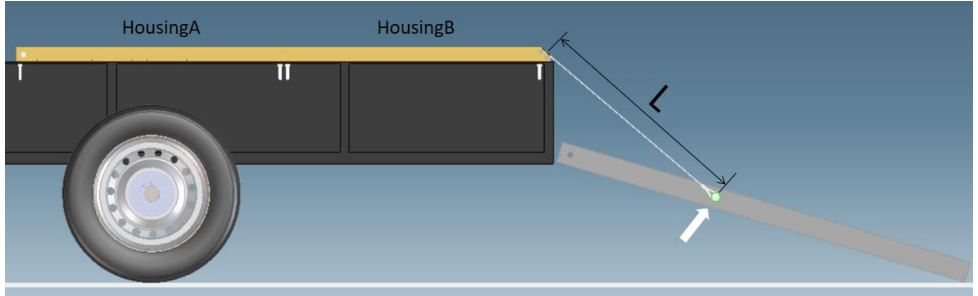




- ①2PCS× housing A
- ②2PCS× housing B
- ③2PCS× spring/cable assembly
- ④8PCS× 5/16 inches × 3 inches mounting Bolts (M8 × 75 mm)
- ⑤8PCS× 5/16-inch flat washer (M8)
- ⑥8PCS× 5/16-inch flanged lock nut
- ⑦2PCS× pin A
- ⑧2PCS× locking ring A
- ⑨4PCS× roller
- ⑩4PCS× pin B
- ⑪8PCS× 1/4-inch flat washer (M6)
- ⑫4PCS× locking Ring B
- ⑬2PCS× S hook (purpose for determination of the Bolts ⑭ position)
- ⑭2PCS× 1/2 inch × 5 1/2 inches gate attachment bolt Bolts (M12 × 140mm)
- ⑮4PCS× 1/2-inch flanged lock nut (M12)
- ⑯8PCS× 1/2-inch flat washer (M12)

Important Note:

If the top of your trailer's side rail is made of round tubing larger than 2 inches in diameter, you will need longer mounting bolts before beginning the installation process. Alternatively, you can spot-weld the Lift on the side rails instead of using mounting bolts. When mounting the Lift, ensure that your housings are straight, level, and flush to ensure proper installation.



Assembly and Use

STEP 1. INSTALLING THE HOUSING A AND THE HOUSING B

1) Mark the hole positions of bolts before installing bolts.

Place and align housing A & housing B on top of the trailer's side rail. Notice the direction of the housing in Figure 1-0.



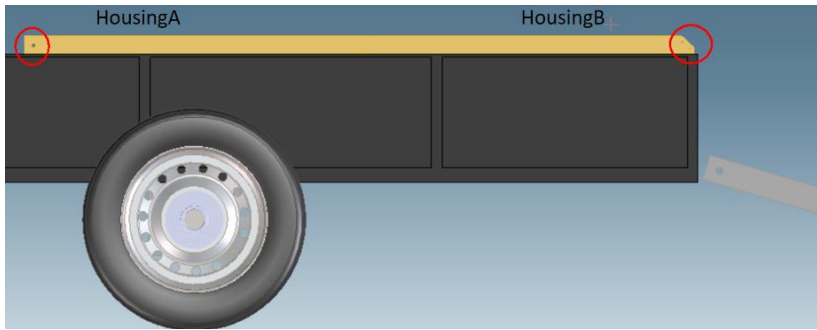


FIG. 1-0

That the housings are straight and level on the rail and flush against each other; Mark the center of housing B's mounting holes, as FIG1-1 and FIG1-2. In most cases, $L1 \approx 1/4$ inch as FIG1-3.

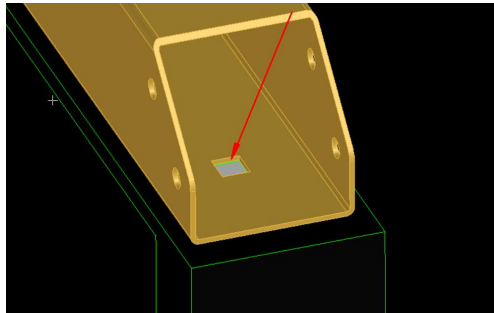


FIG. 1-1

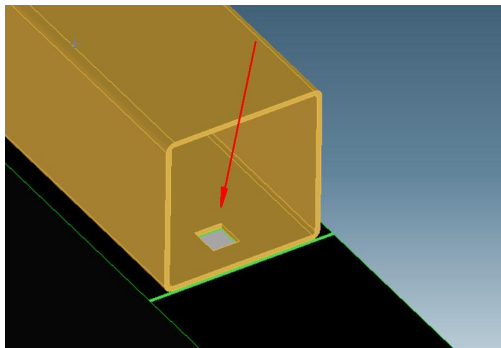


FIG. 1-2

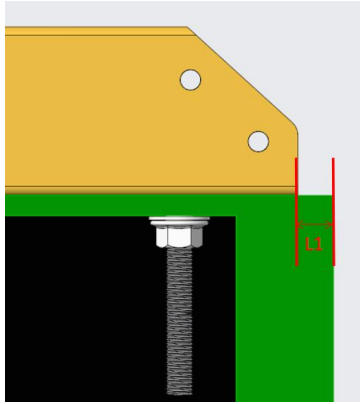


FIG. 1-3

Remove housing B from the side rail without disturbing the placement of housing A. Mark the center of housing A's mounting holes, as shown in FIG1-4 and FIG1-5

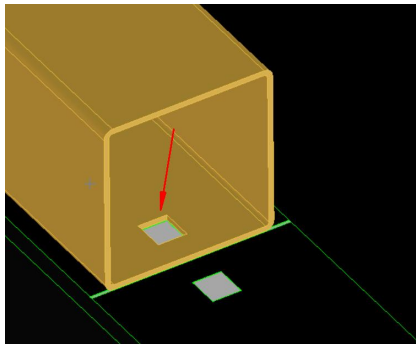


FIG. 1-4

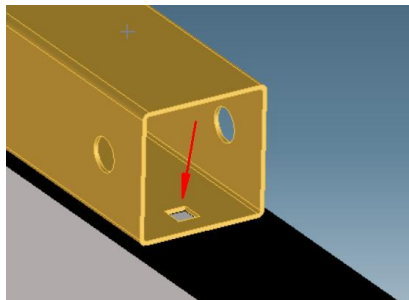


FIG. 1-5

2) Mark the center of housing A&B's mounting holes. Drill 1/2-inch holes (which are oversized) down through the side rail where you made your marks.



WARNING! $L1 \approx 1/4$ inch, If you must install $L1$ greater than $1/4$ inch, you must make sure that cables cannot rub against the end of side rails when lowering the tailgate all the way down to the ground. ($0 < L2$), Avoid fray and eventually break.

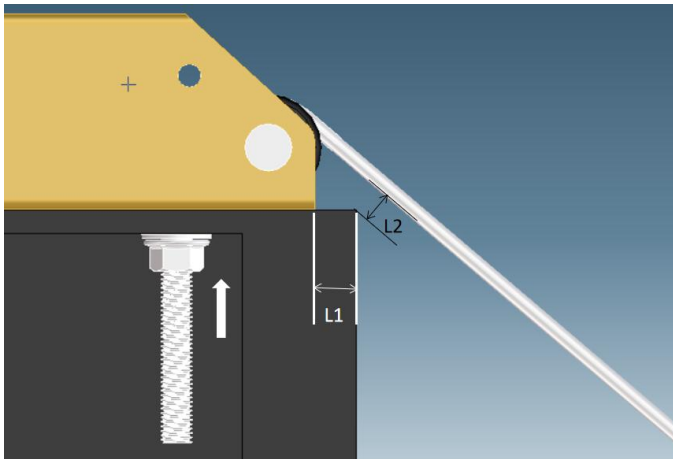
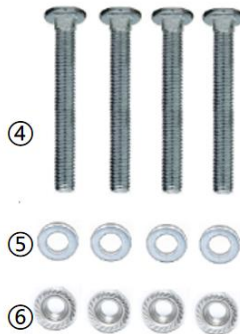


FIG. 1-6

3) Install housing A and B.



To install, insert the bolts through the mounting holes located at the ends of housings A and B, where they come together. Then, place the housings back on the rail while guiding the bolts through the appropriate 1/2-inch holes that you have drilled into the side rail. It is crucial to ensure that the mounting bolts are seated all the way down into their square holes and remain seated when connecting and tightening to the side rail. The oversized 1/2-inch holes that you drilled will allow you to do this. Failure to follow this step may cause the springs to catch on the bolts, preventing the tailgate from going all the way to the ground and causing damage to the springs.

4) Make sure that housings A & B are straight, even, and tight against each other.

STEP 2. INSTALLING THE SPRING/CABLE ASSEMBLIES:

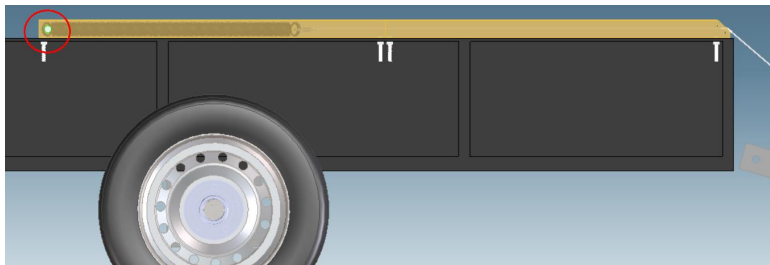


FIG.2-0



1) Slide a spring/cable assembly into housings A & B. The pin A ⑦ passes through the springs loop (two springs loop) and housings A, as

shown in FIG.2-1 and FIG.2-2. Be sure you run the pin through the looped ends of both the inner and outer springs.

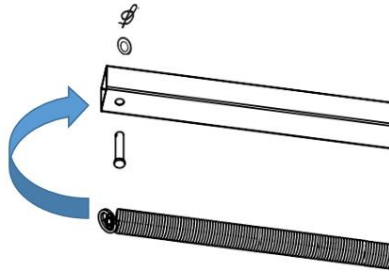


FIG. 2-1

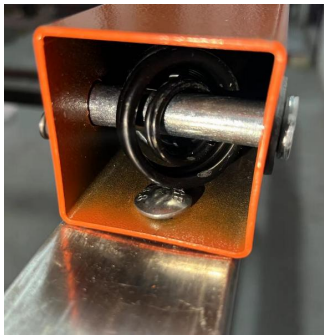


FIG. 2-2

1) Install locking ring A ⑧ as FIG. 2-3.

#1 The locking ring through the hole of the pin and then a gentle rocking motion from Step 1 to Step 2 of as FIG. 2-4.



FIG. 2-3

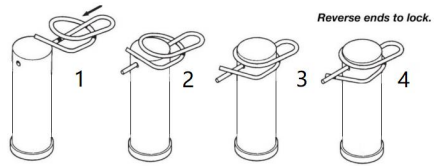


FIG. 2-4

STEP 3. INSTALLING THE ROLLERS



1) Install the roller as FIG. 3-1 and FIG. 3-2.

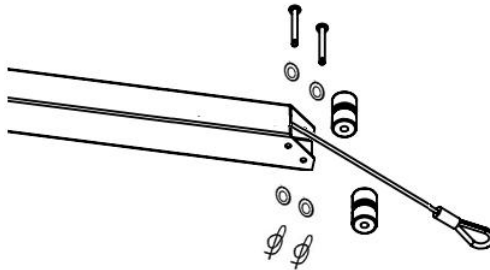


FIG. 3-1



FIG. 3-2




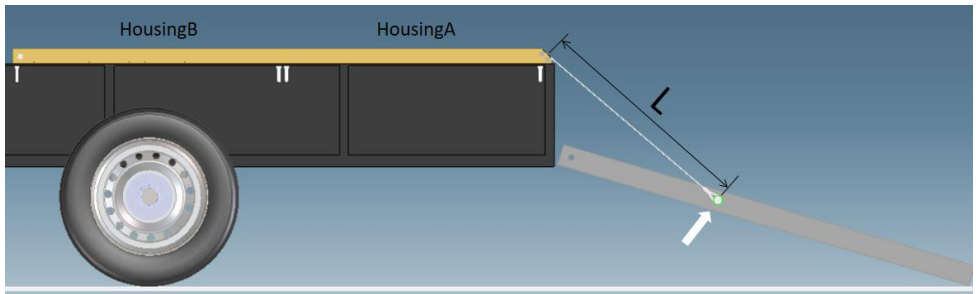
FIG. 3-3

Make sure the roller is spinning freely and smoothly. If not, please check it carefully if any bends in the tube, burrs, or rough spots.

STEP 4 . Repeat the other above steps and assembly the other side of the Trailer Gate Lift Assist.

STEP 5. ATTACHING THE CABLES TO THE TRAILER'S TAILGATE

 **IMPORTANT:** When the cable was attached to the tailgate, if your tailgate won't go down, NEVER FORCE ! Don't use violence at the tailgate in either direction !



1)First, the tailgate is placed on the ground, and measure the approximate position of the hook on the tailgate. In most cases, L is between 20 inches and 35 inches.



Warning! The greater the L, the greater the force. The spring or cables will probably be broken when $L > 37$ inches.

2) Secure and lock your tailgate in the upright position.

3) Attach an S-Hook to the looped end of each cable. Raise cables just enough to take the slack out of each and (using the S-Hooks) attach each of them to the mesh on both sides of the tailgate, doing so as close to the outer side support angles/tube as possible. As Fig 5-1. (S-Hooks are for installation purposes only, NOT for permanent use!)



Fig 5-1

4) To ensure the proper functioning of the Lift, slowly lower the tailgate halfway down to the ground to check if the springs are moving freely. The tailgate should balance out in this position and move up and down with minimal effort. If this is not the case, return the tailgate to the upright position, secure it there, and make adjustments A or B.

A. If there is not enough lifting power on the tailgate, raise the attachment points using the S-Hooks on both sides of the tailgate while keeping both attachment points at the same height. This will help balance the tailgate at almost any position and allow it to move up and down with minimal effort.

B. If there is too much lifting power on the tailgate, and it will not go completely down or stay completely down, please refer to TROUBLESHOOTING #2. This involves using a marker or puncher to make a mark on the tailgate side support tube/angle at the same height as the opening in the cable loop, as shown in X of Fig 5-2.

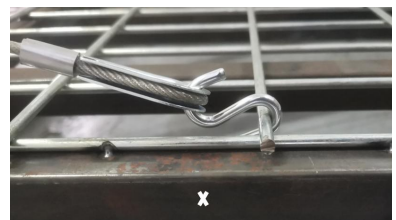


FIG. 5-2

5) Drill a through 1/2-inch hole at X.

6) Slide the cable thimble onto the gate attachment bolt . as **FIG. 5-3**.

Note: The cable is as straight as possible when pulling, then tighten the nuts.



FIG. 5-3

7) Repeat the two steps above on the other side.

Troubleshooting Instruction:

1) If a roller is not spinning freely:

Check the housing and cable are straight. Check the housing for deformation.

2) If there is too much lifting power on your tailgate.

A. Use S-Hooks to test different cable attachment positions and lifting power and adjust the value of L.

B. Reduce the small inner springs in the spring/cable assembly. Using only large outer springs, reattach both cables to the tailgate. **IMPORTANT:** Never only hook up small inner springs by themselves.

Maintenance

1) Check the cable for breakage, and replace the spring/cable assemblies if breakage.

2) Ensure all bolts and hardware are tight, secure, and sound.

3) Dust out the cable and roller regularly.

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