
Vroom Engineering & Manufacturing

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Vroom Ramplift

Installation

The following instructions assume that you have already selected the appropriate Ramplift for your trailer and ramps. By following these steps carefully you should be able to install, adjust, and begin using your Ramplifts that same day. We recommend that you read through all of the steps carefully before beginning the installation.

Step 1: Weld the Ramplift to the trailer

- (a) First thing to do is make sure that the back face of the trailer where the ramplifts will be welded is at a 90 degree angle to the trailer bed, if the back face of the trailer is at another angle the ramplift side brackets will need to be modified to get the desired 90 degrees to the bed. It is very important for both ramplifts (when facing the back end of the trailer) to have the Adjusting wrench flats on the right hand side and the Up lock pin on the left hand side.
- (b) Position the ramplifts on the back face of the trailer and support the assemblies there. The side brackets are designed to fit inside a 6 and 8 inch channel, but it is not necessary that your trailer is equipped with a channel.
- (c) Be sure that both side brackets are at a 90 degree angle to the trailer. There should be a $\frac{3}{16}$ gap between the left side bracket extension and the stop welded to the ramplift tube. This is done to ensure that the ramplift stop is hitting the max amount of $\frac{1}{2}$ inch stop plate. Tack the brackets on the trailer and be sure that the $\frac{3}{4}$ inch detent pin fits loosely and slides in and out of the holes. You may need to tap on the pin slightly now and then to ensure the pin is centered. It is important that the pin slides through the hole easily. Once the RamLift is properly positioned it can then be welded to the trailer.

Step 2: Weld the ramp to the Ramplift assembly

Loosen the two clamping bolts and rotate the tube as necessary so the 4 inch channel will fit against your ramp end. The width of your ramp may be greater or smaller than the width of your Ramplift tube. Center the ramp to the channel iron on the RampLift and skip weld the top surface. Lift the ramp up and skip weld the bottom of the ramp.

Step 3: Checking the ramp legs

If your ramp already has supporting legs check (a) foot position, and (b) leg length.

- (a) When the ramp is down, the feet should not be behind the Hinge point centerline. They should rest as far forward as possible (at least as far forward as the hinge point centerline), if the feet are behind the centerline then the ramp will fly up dangerously as soon as the trailer is loaded. Change the position of the leg if necessary to position the feet properly.
- (b) After the Ramplift is installed, the ramp's supporting feet should be at least 1.5 inches above the ground when the ramp is down. This is done to avoid dragging the foot when you lift the ramp upright.

Step 4: Adjust RampLift Spring Tension.

This step is to be done by trial and error. Your goal is to have the end of the ramp resting very lightly on the ground and require minimum lifting force to raise it.

To adjust the tension in the torsion spring, place the Ramp in the vertical position and push the up lock pin in. Loosen the two clamping bolts on the side brackets and add tension to the spring by turning up on the wrench flat (clockwise) roughly $\frac{3}{4}$ of a turn and tighten the clamping bolts. Pull the Up lock pin out and test the ramp to see if the desired tension has been reached.

If the ramp is adjusted correctly, the ramp will rest lightly on the ground. If the ramps stays above the ground or sits heavy on the ground then the spring must be re-adjusted.