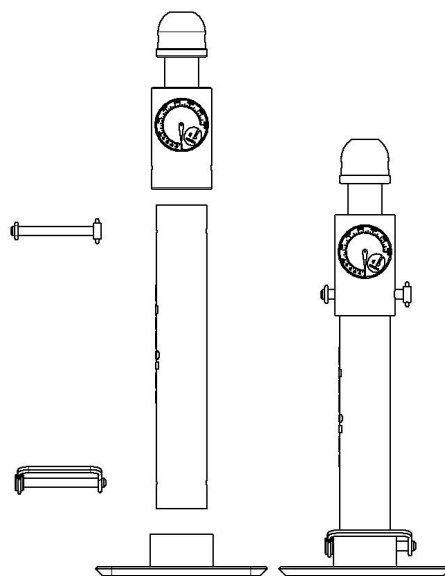


etrailer Tongue Weight Scale – Instructions

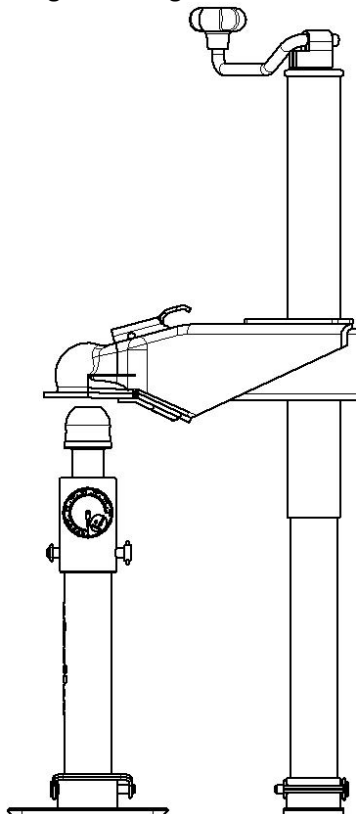
Thanks for your recent purchase of the etrailer tongue weight scale. Knowing the correct tongue weight of your trailer is critical for safe and controlled towing. Tongue weight should be taken once all cargo is loaded on your trailer. If the tongue weight does not match the intended range, 10-15% of total trailer weight, rearrangement of cargo may be required.

Assembly and Use – Trailer Coupler

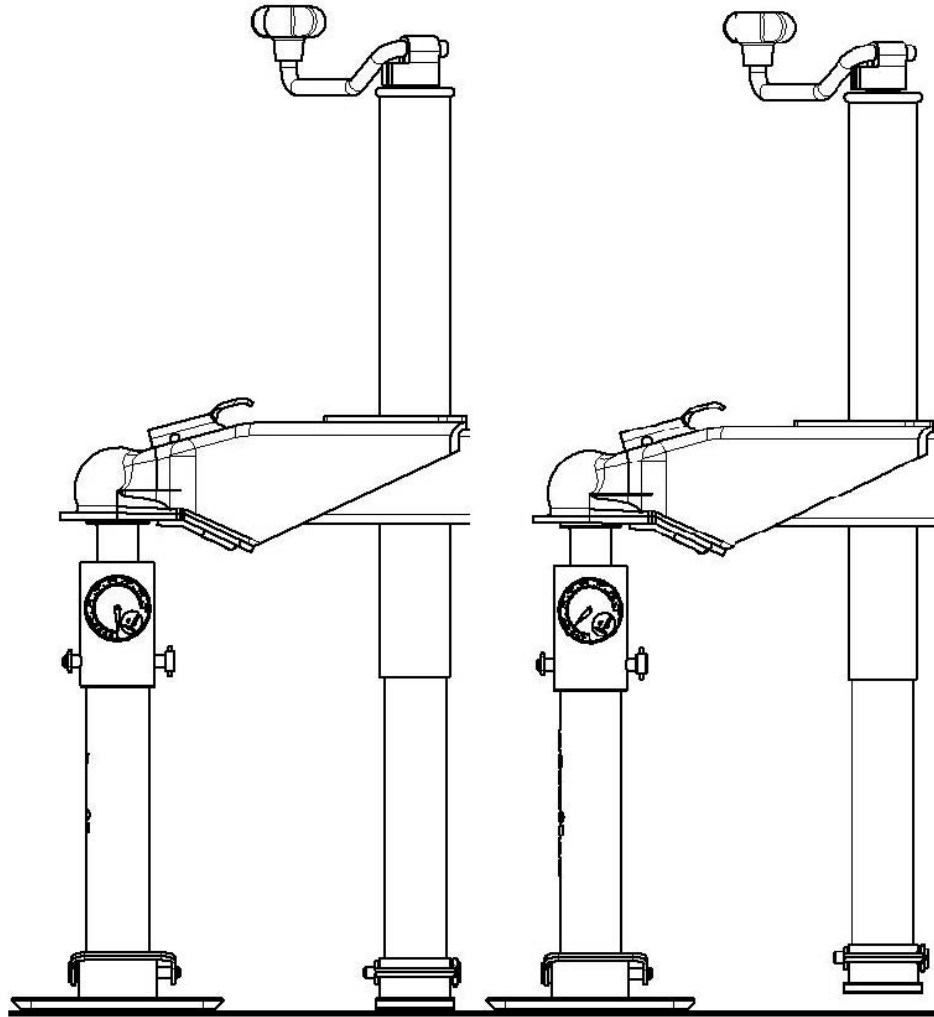
- 1) Remove the tongue weight scale from the package and inspect it. Ensure that no fluid has leaked out, and the gauge is not cracked or damaged.
- 2) Assemble the etrailer tongue weight scale, as shown below.



- 4) Once assembled, position the tongue weight scale directly below the trailer coupler. Ensure that the ground underneath the tongue weight scale is **stable**, and **level** and that the wheels of the trailer are **chocked** to prevent accidental movement of the trailer. If the trailer coupler is not directly over the tongue weight scale, inaccurate weight reading can occur.



- 5) Once the tongue weight scale is positioned under the trailer coupler, slowly lower the trailer coupler onto the tongue weight scale. Once the trailer coupler is completely supported by the tongue weight scale, continue to raise the trailer jack until the bottom of the jack is $\frac{1}{2}$ " above the ground.

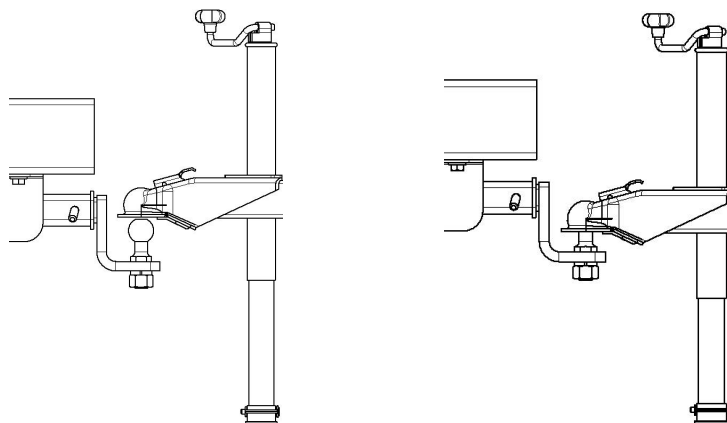


- 6) Record the tongue weight scale reading. This will be your trailer's tongue weight. Typical values to achieve optimal towing are between 10 – 15% of total trailer weight.

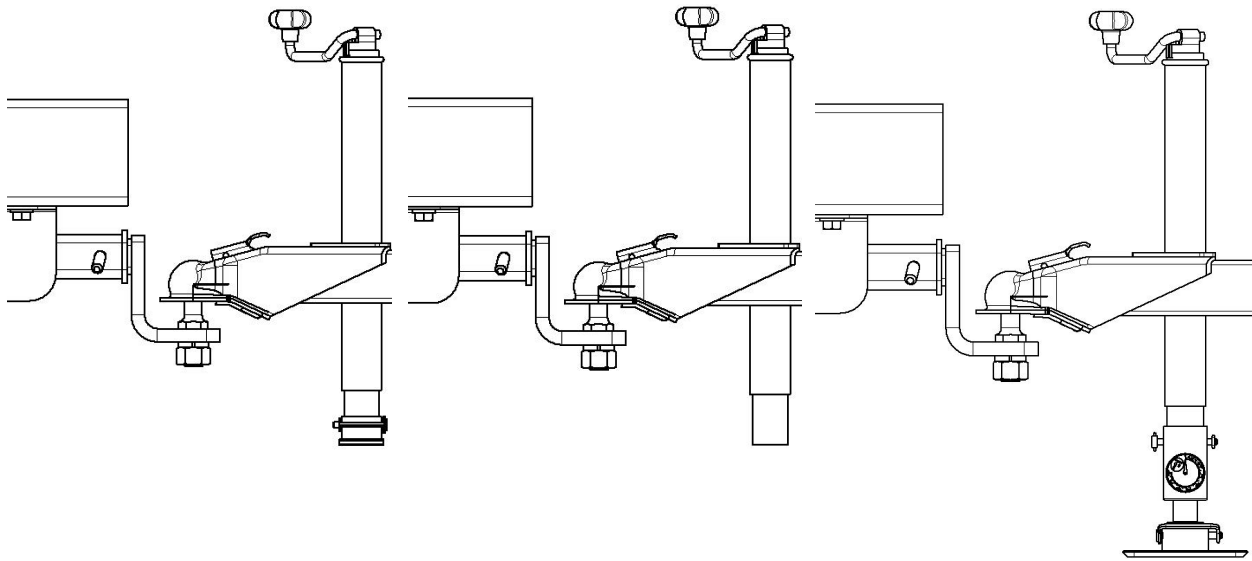
Assembly and Use - Trailer Jack

In addition to measuring the trailer's tongue weight at the coupler, the etrailer tongue weight scale can measure the trailer's tongue weight at the trailer jack as well. This is great for trailers with lunnette rings and pintles, as well as a quick check method when you're about to hit the road. A trailer jack with a 2" inner tube and removable foot plate is required for this functionality.

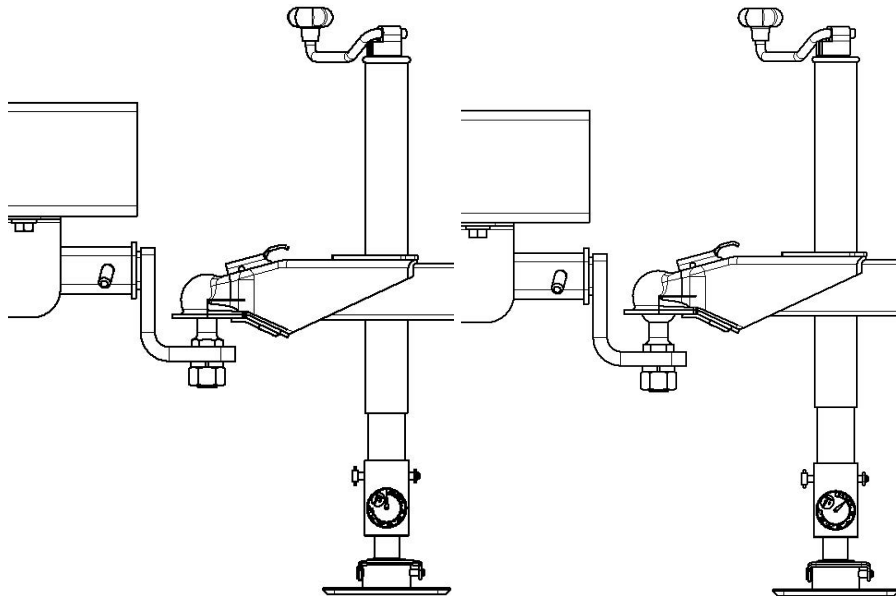
- 1) Align the vehicle's hitch ball with the trailer coupler, as shown below. Once the trailer coupler and hitch ball are aligned, chock the wheels of the trailer and slowly lower the trailer coupler onto the hitch ball until it is fully seated.



2) Once the tongue weight of the trailer is supported by the hitch ball, close the latch on the trailer coupler. Continue to retract the inner tube of the trailer jack until the pin hole for the removable foot plate is approximately 8" from the ground. At this point, with trailer coupler latched to the hitch ball, remove the existing removable foot plate and replace it with the scale and foot plate assembly from the tongue weight scale, as shown.



3) With the scale and foot plate assembly in place on the 2" inner tube of the trailer jack, extend the inner tube of the trailer jack until the foot plate attached to the scale assembly contacts the ground. At this point, unlatch the trailer coupler from the hitch ball. Once the trailer coupler is unlatched from the hitch ball, raise the trailer coupler until no weight is placed on the vehicles hitch ball. The tongue weight of the trailer will be supported by the trailer jack and tongue weight scale assembly. Record the tongue weight scale reading, this will be the tongue weight of your trailer. Typical values to achieve optimal towing are between 10 - 15% of total trailer weight.



NOTE:

- When taking tongue weight at trailer jack, ensure that trailer is level when connected to the ball mount.
- You may see slightly higher tongue weight readings when taking the measurement at the trailer jack vs. at the trailer coupler. If your trailer jack is within ~12" of the trailer coupler this should not have a significant effect. If you are seeing large variations between the measurements at the trailer coupler vs. trailer jack, verify that the trailer is level. If you are still seeing large variations or the distance between your coupler and trailer jack is more than 12", refer to the instructions on the next page.

If you experience large variations in the tongue weight readings at the trailer coupler vs. the trailer jack, follow the instructions below to find your trailer's trailer jack correction factor (F).

- 1) Measure the tongue weight at the trailer coupler using the method described in the Assembly and Use - Trailer Coupler section of this instruction sheet.
- 2) Measure the tongue weight at the trailer jack using the method described in the Assembly and Use - Trailer Jack section of this instruction sheet.
- 3) Once you have the tongue weights recorded for the trailer coupler and trailer jack, plug them into the formula below:

$$F = \frac{\text{Tongue weight @ coupler}}{\text{Tongue weight @ trailer jack}}$$

F will be your trailer jack correction factor. When measuring the tongue weight at the trailer jack from then on, multiply F times the tongue weight reading at the trailer jack and you will determine the equivalent tongue weight at your trailer coupler.

Example:

Tongue weight at trailer coupler = 850 lbs. Tongue weight at trailer jack = 1000 lbs.

$$F = \frac{\text{Tongue weight @ coupler}}{\text{Tongue weight @ trailer jack}} = \frac{850\text{lbs.}}{1000\text{ lbs.}} = .85$$

WARNING:

- The etrailer tongue weight scale is not intended as a trailer support device. Prolonged load on the tongue weight scale can cause inaccurate readings and lead to scale failure.
- Ensure that the ground is stable and level when using the tongue weight scale.
- Do not raise the trailer more than is necessary to record the tongue weight at either the trailer coupler or the trailer jack. Always ensure that a secondary support (i.e. trailer jack or hitch ball) are in close proximity to catch the trailer load should the tongue weight scale shift or fail during operation.
- Store the etrailer tongue weight scale in a secure place when not in use. Do not travel with the tongue weight scale attached to the trailer jack inner tube.