

OnTarget

Towing Tool by Equal-i-zer®



User's Manual

The OnTarget™ Towing Tool by Equal-i-zer is the simplest way to check your weight distribution. Using laser measuring, the OnTarget takes three simple measurements at the front wheel well and calculates the percentage of weight distribution.

Part Number	Model
95-01-4323	SW-50C

Thank you for purchasing the OnTarget Towing Tool by Equal-i-zer, making it even easier to get the highest performance from your Equal-i-zer hitch. This tool helps you check your hitch setup, and make the adjustments needed to provide a safer, more enjoyable tow for you and your loved ones.

Warning




⚠ Failure to follow all safety warnings may result in severe injury or death.

- **Always** load the trailer correctly. Follow the trailer and tow vehicle manufacturers' recommendations for placement and quantity of cargo.
- **Always** turn the OnTarget off when not in use or left unattended.
- **Keep** the OnTarget out of the reach of children.
- **Never** attempt to view the laser beam through optical tools such as telescopes as serious eye injury may result.
- **Never** operate the laser in explosive environments, i.e., in the presence of gases or flammable liquids.
- **Never** place the OnTarget in a manner that may cause someone to unintentionally stare into the laser beam. Serious eye injury may result.
- **Never** project the laser beam directly into the eyes of others.
- **Never** set up the OnTarget at eye level or operate the tool near a reflective surface as the laser beam could be projected into your eyes or into the eyes of others.
- **Never** stare directly at the laser beam.
- **Never** transfer your hitch to a different tow vehicle or trailer without adjusting the hitch for proper setup and weight distribution.
- **Read**, understand, and follow all safety warnings, setup, use, and maintenance instructions of the trailer, tow vehicle, and hitch equipment before installing the hitch or towing your trailer.
- **Remove** the batteries when storing the tool for an extended time (more than 3 months) to avoid damage to the OnTarget should the batteries deteriorate.
- **The operator** is responsible for making necessary adjustments to the hitch to optimize weight distribution and sway control. Verify that the hitch is adjusted correctly after loading the trailer and tow vehicle for each trip. The weight distribution setup and towing performance should be evaluated by the operator and adjusted when necessary.
- The warning label affixed to the back of the OnTarget should not be removed.
- Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Instructions

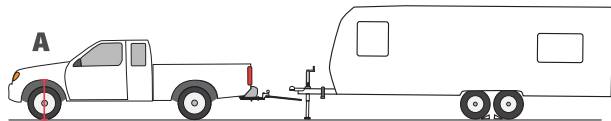
Preparation

Park the tow vehicle and trailer on flat, level ground and uncouple the trailer from the tow vehicle, without pulling forward.


Turn on the OnTarget by pressing the  button. The default setting is Weight Distribution Mode. (If you have exited Weight Distribution Mode and would like to return, hold **MODE**  for three seconds and  will flash).

Place the included target reflector on the ground, lined up with the center of the tire and wheel well.

Measurement A: Trailer Uncoupled From Tow Vehicle

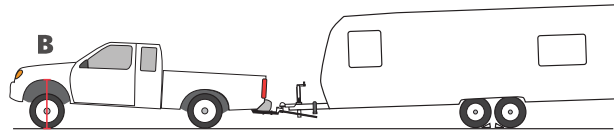


Place the OnTarget at the centerline of the driver side front wheel well, with the screen facing you. Ensure that the laser hits the center of the target reflector.


Press the  button to take measurement “A”. Unless turned off, the OnTarget will beep when the measurement has been recorded. If measurements are taken in different places, the results will be incorrect.

If you need to retake any measurement again, hit **CLEAR**  and press  again.

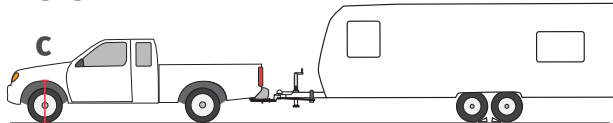
Measurement B: Trailer Coupled to Tow Vehicle



Couple the trailer and tow vehicle together with the full tongue weight on the hitch.

Perform the second measurement in the same place as the first measurement, and press  to take measurement “B”. If measurements are taken in different places, the results will be incorrect.

Measurement C: Weight Distribution Engaged



Engage the weight distribution by placing the spring arms on the L-brackets.

Perform the final measurement in the same place as the first two measurements, and press **READ** to record measurement “C”. If measurements are taken in different places, the results will be incorrect.

After taking all three measurements, the OnTarget will calculate, as a percentage, the current weight distribution achieved.

After Measuring

Refer to your tow vehicle manufacturer’s recommended weight distribution amount. If not specified, we recommend between 50-100%.






If you are not within that range, adjust your hitch accordingly then test drive your setup. If you need more or less weight distribution, make adjustments and measure again. Repeat this step as needed.

Memory Function






Hold the **SAVE BUTTON**  for a few seconds to save a snapshot of current measurement values.

This works for all measuring functions (area, volume, etc).

Reading or deleting saved measurements

1. Press  to view saved measurements.
2. To scroll, press the .
3. Press **CLEAR**  to delete a measurement set.
4. Hold **CLEAR**  to delete all measurement sets.
5. When storage is full, the screen will display **FULL**.
6. Press  to exit.


Tips

Info Message	Cause	Solution
Err	Out of distance measurement range	Use the device within the range
Err1	Signal is too weak	Choose a stronger reflection surface
Err2	Signal is too strong	Choose a weaker reflection surface
Err3	Low battery voltage	Change the batteries
Err4	The device is overheating or too cold	Use the device in the specified temperature range
Err5	Pythagoras measuring error	Ensure hypotenuse is bigger
Err6	Angle sensor error	Depot repair
Changing functions		Press  button
Enter Weight Distribution Mode		Hold  button until  flashes in the upper left corner
Loss of measurement memory	Device shutting off	Use the memory save feature or press  to wake the device
Wrong unit of measurement		Press UNIT 

Other Measuring Capabilities

The OnTarget can perform other helpful trailer measurements, such as: distance (depth of campsite), area and volume (to assist in cargo loading), and can also help level your trailer once you reach your campsite.



Leveling the trailer using the OnTarget:

1. Place the OnTarget on a smooth, flat surface inside the trailer or trailer frame.
2. Use the digital level readout (\angle ) on the screen to level the trailer.
3. The digital level readout is available in any mode.





Level the trailer for towing:

1. Place the OnTarget at the front and back of the trailer frame.
2. Ensure that the numbers are close to the same or equal.






Distance measuring:

1. Press  until (line with a dot on the end) shows on the screen.
2. Aim the OnTarget at the object.
3. Press  to take the measurement.
4. The distance will be displayed.

To measure Area:

1. Press  until  shows on the screen.
2. One side of the rectangle will blink.
3. Press  once to measure the length.
4. Press  again to measure the width.
5. The area is calculated and displayed.

To measure Volume:

1. Press  until  shows on the screen.
2. Press  once to measure the length.
3. Press  again to measure the width.
4. Press  again to measure the height.
5. The volume is calculated and displayed.

Maintenance

The OnTarget should not be stored in high temperatures or a strong humidity environment for long periods of time. Take out the batteries and place the OnTarget in the carrying sleeve and store it in a cool and dry place. To install the batteries, remove the battery cover and position the batteries lined up with the corresponding charge.

Use a wet soft cloth to clean dust, but harsh chemicals should never be used for maintenance. Laser output window and its focus lens can be

maintained according to maintenance procedures for an optical device. There are no serviceable internal parts, and the laser should never be opened. Opening the laser may void your warranty.

Specifications

Power Supply: 3 Alkaline Batteries AAA

Measuring Range: .16-164ft (.05-50m)

Measuring Units: m/in/ft

Dust and Splash Proof: IP54

Operating Temperature: 32°F ~ 104°F (0°C ~ 40°C)

Automatic Shutdown: Yes, after 60 minutes

Measurement Precision: +/- 2mm

Max Output <1mW $\lambda=635nm$

Limited Two-Year Warranty

Limited Two-Year Warranty: Progress Mfg. Inc. warrants the OnTarget™ Towing Tool against latent defects in materials and workmanship under normal use and service, ordinary wear and tear is excepted, to the original owner for a period of two years from the first date of purchase at retail up to the value of its original purchase price. Other conditions apply. For complete warranty details and to submit a warranty claim visit: equalizerhitch.com/warranty-registration or call Equal-i-zer Customer Support at 800-478-5578.

OnTarget

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For a complete list of all measuring capabilities, please visit equalizerhitch.com/ontarget.



$P \leq 1\text{mW}$ $\lambda = 635\text{nm}$
BATTERY : 3 x 1.5V AAA
CLASS II LASER PRODUCT



SW-50c

To reduce the risk of injury, user must read and understand instruction manual.



MADE IN CHINA

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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