



Equalizer
SENTINEL™
SETTING DEVICE

**ASSEMBLY
INSTRUCTIONS
& USER GUIDE**

SSD2021

SSD2022

SSDKIT

Equalizer.
SENTINEL™
 SETTING DEVICE

**SENTINEL™ WITH BENT EXTENSION ARM
 SSD2022**



**SENTINEL™ WITH STRAIGHT RV ARM
 SSD2021**



*The Sentinel™ with the straight RV arm for flush mount applications does not require an extend/retract function (G) unlike the Sentinel™ with the bent extension arm.

COMPONENTS

- A** REMOTE
- B** BOOM ARM
- C** BASE ARM
- D** POWER BOX
- E** CUP ASSEMBLY
- F** ACTUATOR #1
- G** ACTUATOR #2* (For SSD2022 only)
- H** POWERPUMPS™
- I** BATTERY (Charger Included)
- J** BASE & LEGS
- K** ACTUATOR #3
- L** ACTUATOR #4
- M** COUNTERWEIGHTS
USE CAUTION: HEAVY

If you misplace any of these items, please contact us immediately.



Equalizer® is not responsible for damages made to glass, property, or persons while using the Sentinel™.



TWO PERSON ASSEMBLY RECOMMENDED



ASSEMBLY INSTRUCTIONS FOR SENTINEL™



Remove parts from shipping crate in the order directed. Lock wheels on base (J) to provide stability.



Take the base arm (C) with bracket facing out and place it into the opening on the base and legs (J). Tighten bolt to secure.



Using two people, lift boom arm (B) and align with top of base arm (C). Secure clevis pin.



Attach actuator #1 (F) to the bracket on base arm (C) and secure clevis pin. Slowly lower boom arm (B) until it rests in the air on its own, making sure that it is supported by actuator #1 (F).



Slide battery (I) into power box (D). Plug in receiver to the battery in the 24V In/Out outlet.



Connect receiver cord with quick connector on the side of boom arm (B) and turn on battery. Turn on remote using switch on the back. Use the remote to adjust boom arm to a level position.



Attach cup assembly (E) to boom arm (B) by sliding metal into the opening and secure clevis pin located on actuator #4 (L).



Carefully add counterweights (M), by lifting each counterweight and placing into bracket on the backside of the base arm (C).



Insert PowerPumps™ (H) into suction cups. For PowerPumps™ instructions: see troubleshooting page.

MAXIMUM SAFE WORKING LOAD OF 100 LBS (45 KG)**USER INSTRUCTIONS FOR****SENTINEL™ WITH BENT EXTENSION ARM****COUNTERWEIGHT REQUIRED
TO ENSURE STABILITY**

**FOR GLASS RANGING FROM 50-100 LBS (22-45 KG)
COUNTERWEIGHTS ARE REQUIRED.**

If you are not sure of the exact weight of the glass you are lifting, use both counterweights to ensure adequate support. Not using provided counterweight will void warranty.

**USEFUL TIPS**

- Use proper vehicle protection during use.
- Be sure both PowerPumps™ are on at all times when lifting or setting glass and turn off when not in use to save battery power.

REMOVING YOUR WINDSHIELD

When the glass is ready to be lifted, power on your Sentinel™ and center the Sentinel™ guiding the legs under the front of the vehicle. Make sure to press the **set button** so that the cups are fully extended out before attaching the cups to the glass.

Using the **raise/lower and tilt up/down buttons** on the remote, position the cup assembly in the middle of the glass and press cups with powered on PowerPumps™ to the glass until they are flush. Make sure they are drawn down completely and have a secure seal.

Lift the glass using the **lift button** and then **raise button** on the remote until you have enough clearance to guide the Sentinel™ and windshield out and away from the vehicle. Place glass on windshield stand by tilting glass down and then lowering boom arm with **lower button**.

SETTING YOUR WINDSHIELD

Performing a dry set is recommended so that the user is accustomed to the placement before the final set is performed.

Power on your Sentinel™. When the glass is ready to be set onto the pinchweld, guide the Sentinel™ into a good position to pick up the glass from your windshield stand. Make sure to press the **lift button** so that the cups are retracted in.

Position the cup assembly in the middle of the glass by using the **lower and tilt up/down buttons** and press cups with powered on PowerPumps™ to the glass until they are flush. Make sure they are drawn down completely and have a secure seal.

Next, lift glass using the **raise button**. Then, center the Sentinel™ guiding the legs under the front of the vehicle. If you need more reach over the hood, use the **extend button**. *Note: Only extend out as far as necessary for the set of the glass.*

Use the **lower and tilt up/down buttons** on the remote, to position the glass to be set.

Align the glass 1-2 inches (2.5-5.1 cm) above the pinchweld. When you are ready to set, use the **set button** to push the glass into place while you are helping guide the glass with your hands or additional vacuum cups to ensure correct alignment.

MAXIMUM SAFE WORKING LOAD OF 150 LBS (68 KG)**USER INSTRUCTIONS FOR
SENTINEL™ WITH STRAIGHT RV ARM****COUNTERWEIGHT REQUIRED
TO ENSURE STABILITY**

**FOR GLASS RANGING FROM 50-150 LBS (22-68 KG)
COUNTERWEIGHTS ARE REQUIRED.**

If you are not sure of the exact weight of the glass you are lifting, use both counterweights to ensure adequate support. Not using provided counterweight will void warranty.

**USEFUL TIPS**

- Use proper vehicle protection during use.
- Be sure both PowerPumps™ are on at all times when lifting or setting glass and turn off when not in use to save battery power.
- Depending on the size of the glass, additional windshield stands may be needed to support it.

REMOVING YOUR WINDSHIELD

Securing your Sentinel™ to the glass before performing the cut out of the glass is recommended so that you can immediately remove the windshield once it is ready.

Power on your Sentinel™ and position it in front of the vehicle. Using the **raise/lower and tilt up/down buttons** on the remote, center the cup assembly in the middle of the glass and press cups with powered on PowerPumps™ to the glass until they are flush. Make sure they are drawn down completely and have a secure seal.

Remove the glass by guiding the Sentinel™ away from the vehicle. Place glass on windshield stand by tilting glass down and then lowering boom arm with **lower button**.

SETTING YOUR WINDSHIELD

Performing a dry set is recommended so that the user is accustomed to the action before the final set is performed.

Power on your Sentinel™. When the glass is ready to be set onto the pinchweld, guide the Sentinel™ into a good position to pick up the glass from your windshield stand. Make sure to press the **lift button** so that the cups are retracted in.

Position the cup assembly in the middle of the glass by using the **lower and tilt up/down buttons** and press cups with powered on PowerPumps™ to the glass until they are flush. Make sure they are drawn down completely and have a secure seal.

Next, slowly lift using the **raise button** to the height needed. Begin to maneuver the Sentinel™ and guide it until it is centered in front of the vehicle. Once you are in place, lock wheels to secure.

Now using the **tilt up/down buttons** on the remote, position the glass to be set.

Align the glass 1-2 inches (2.5-5.1 cm) above the pinchweld. When you are ready to set, use the **set button** to push the glass into place while you are helping guide the glass with your hands or additional vacuum cups to ensure correct alignment.

TROUBLESHOOTING



Battery Life Indicator

	Slow pulsing green when in use
	Rapidly flashing red indicates battery is low
	Slow pulsing red while charging

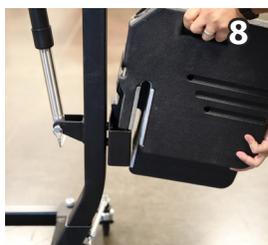
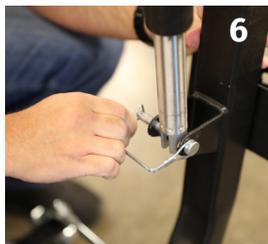
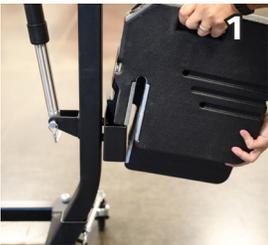


POWERPUMP™ INFORMATION

- 5 hours of constant run time.
- Recharge using Sentinel™ battery USB port.
- Do not drain battery completely.

PowerPump™ Battery Life Indicator

- Pulsing green when in use
- Alternating red and green pulses when battery is low
- Rapid pulse of red when battery is VERY low
- While charging, light will pulse red.
- Light will shut off when fully charged.



HOW TO SWAP SENTINEL™ ARMS:

1. Remove counterweights before swapping the arms.
2. Press the raise button on the remote until you have raised boom arm up to level position. Then disconnect receiver cord from quick connector on the side of boom arm (B).
3. While one person holds up the boom arm (B), unlock and remove clevis pin from the bottom bracket of actuator #1 (F) where it is attached to the base arm (C).
4. Unlock and remove clevis pin where the boom arm (B) and base arm (C) connect. Using two people, lift boom arm (B) and carefully set aside.
5. Using two people, lift the boom arm (B) you want to use and align where the boom arm (B) and base arm (C) connect and secure with clevis pin.
6. Attach actuator #1 (F) to the bottom bracket on base arm (C) and secure clevis pin. Slowly lower boom arm (B) until it rests on its own, making sure that it is supported by actuator #1 (F).
7. Connect receiver cord with quick connector on the side of boom arm (B).
8. Add counterweights before performing next installation or removal.

WARRANTY INFORMATION



WARRANTY TERM

Equalizer® Sentinel™ is warranted for ONE year to be free of factory defects from the date of purchase.

WHAT IS COVERED?

Equalizer® warrants this product is free from defects in materials and workmanship when used for the purpose intended, under normal conditions, and provided it receives the proper care and maintenance as described in the User Guide section. This warranty is good only for authentic, original, legitimate tools manufactured by Equalizer® and sold through Authorized Distributors or from Equalizer® directly. These terms cover the following items for one year from purchase date: remote, power supply, actuators, and PowerPumps™.

WHAT IS NOT COVERED?

- Warranty does not apply to abuse, misuse, normal wear and tear, or to accessories.
- Damage caused where repairs have been made or attempted by unauthorized persons.
- Damage caused by maximum safe working load capacity being exceeded.

WARRANTY CLAIMS

Equalizer® will repair or replace, at our discretion, any defective part. Our goal is for tools to be repaired and sent back the same day they are received.

Equalizer® reserves the right to refuse repair, at our expense, any tool which has not been properly maintained as specified in the User Guide and Warranty Section.

To send in your tool for repair, contact Equalizer® to receive a RMA number and instructions.

Please send part(s) to:

Equalizer®

Attention: Repair Department/ RMA# _____

2611 Oakmont Drive Round Rock, TX 78665 USA

If you have any questions about your tool call us at 512.388.7715, or email sales@equalizer.com

Scan to Request an RMA for Tool Repair



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