For Technical Support visit us at support.sunsetter.com,
e-mail contactus@sunsetter.com, or Call Toll Free 800-670-7071

EasyShade Solar Battery Charger

For Use With Solar-Powered EasyShades

(Manufactured June 3, 2024 - Present)

> ⚠ <u>**WARNING**</u>**! FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN PERSONAL INJURY!**
>
> **PLEASE READ THESE INSTRUCTIONS COMPLETELY BEFORE PERFORMING THIS PROCEDURE.**

Parts Supplied: External Solar Battery Charger
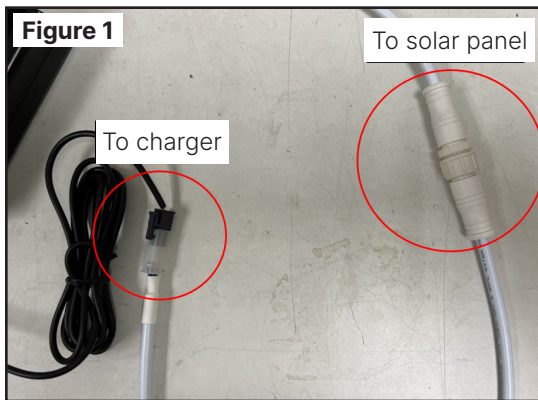
> <u>**CAUTION**</u>**: If rain or freezing temperatures are present, charging must be done indoors.**
>
> **If weather conditions allow, the Charger can be used while the solar panel/battery assembly is mounted to the EasyShade housing. An extension cord may be needed to reach the nearest electrical outlet.**
>
> **If the solar panel/battery assembly must be removed from the EasyShade housing for charging due to rain, freezing temperatures, or inability to reach the nearest electrical outlet, please see Appendix A for instructions on removing and re-installing the EasyShade and solar panel/battery assembly.**

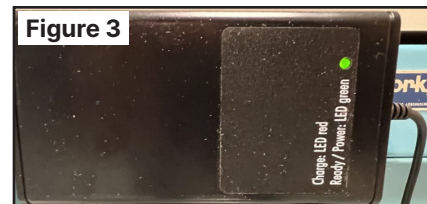**If removal of the EasyShade is not needed for charging, follow steps 1-4 below.**

1. Disconnect the solar panel cord from the motor cord and connect the charger cord to the solar panel cord (see **Figure 1**).

Figure 1
To solar panel
To charger

2. Plug the transformer into a wall outlet.

3. Red LED Status = Battery Charging

Figure 2

4. Green LED Status = Battery charging complete

Figure 3

<u>**CAUTION**</u>**: It is not recommended to use the Solar Battery Charger for longer than 3 hours at a time.**

Remove and Re-Install EasyShade and Solar Panel

Tools Needed:
- Helper
- Ladder
- 5/64" Allen Wrench
- 3mm Allen Wrench
- 4mm Allen Wrench
- Masking Tape
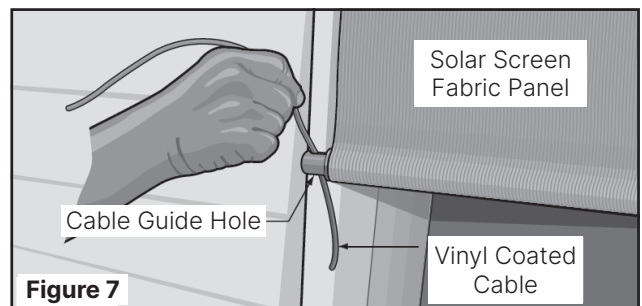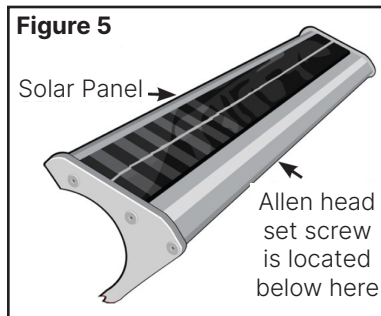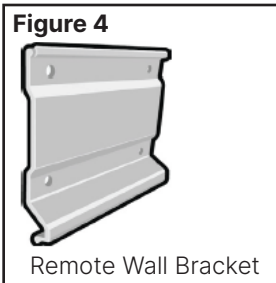- Flat Blade Screwdriver
- 7/16" Open-End Wrench

Parts Supplied:
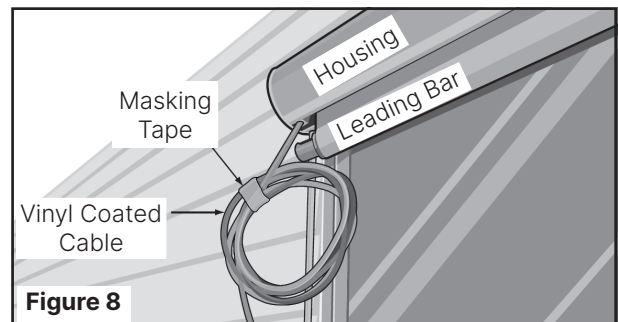- Replacement Solar Battery

Remove EasyShade and Solar Panel

1. Close your EasyShade completely, if possible

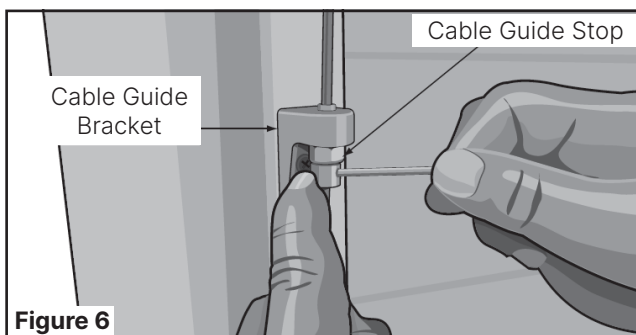2. Disconnect the power cord from the solar panel.

   Note: If a Remote Wall Bracket (see Figure 4) is used to mount the solar panel directly to the wall (see Figure 5) instead of mounting directly on the EasyShade housing, skip ahead to Appendix B.

Figure 4

Remote Wall Bracket

Figure 5

Solar Panel →

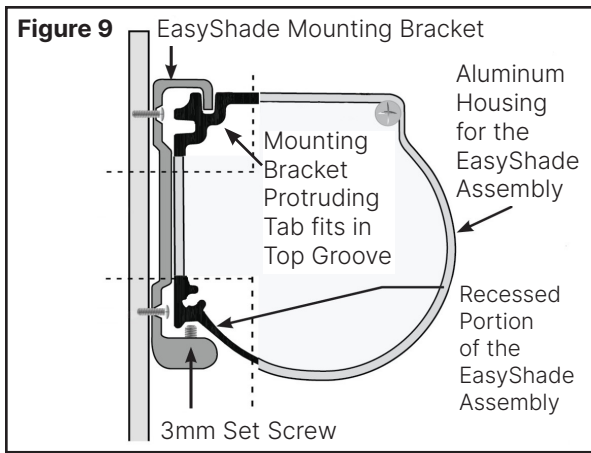Allen head set screw is located below here

3. Remove the cable guide stops from the bottom of the vinyl coated cables, on each side of the EasyShade, using a 5/64" Allen wrench (see **Figure 6**).

Cable Guide Stop

Cable Guide Bracket →

Figure 6

4. Pull the cables out of the cable guide holes on each end of the solar screen fabric panel (see **Figure 7**).

Solar Screen Fabric Panel

Cable Guide Hole

Vinyl Coated Cable

Figure 7

5. Coil the cables and secure with a piece of masking tape (see **Figure 8**).

Housing

Leading Bar

Masking Tape

Vinyl Coated Cable

Figure 8

Note: Step 6 requires access to the mounting brackets for removal of the EasyShade from the house. If the fabric panel can not be retracted out of the way, have a helper assist you in rolling the fabric panel around the bottom leading bar until the rolled up fabric and leading bar meet the housing, then secure it safely in place.
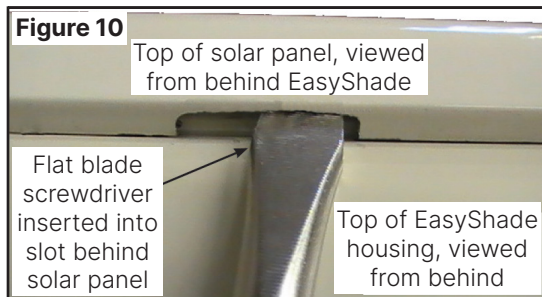
6. While your helper supports the EasyShade, loosen the 3mm Allen head set screws on each mounting bracket (see **Figure 9**). With the aid of your helper, carefully remove the EasyShade from mounting brackets and place it in your work area.
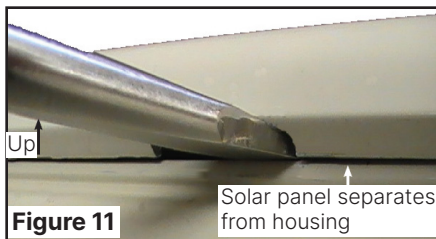
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Figure 9 EasyShade Mounting Bracket

Aluminum Housing for the EasyShade Assembly

Mounting Bracket Protruding Tab fits in Top Groove

Recessed Portion of the EasyShade Assembly

3mm Set Screw

7. Remove the 4mm Allen head set screw securing the solar panel to the EasyShade housing (see **Figure 5**).

> ⚠ **WARNING: HAVE A HELPER HOLD THE EASYSHADE STILL WHILE REMOVING THE SOLAR PANEL. FAILURE TO DO SO CAN RESULT IN DAMAGE TO THE EASYSHADE AND/OR PERSONAL INJURY.**

8. Insert a flat blade screwdriver into the slot behind the top of the solar panel, where it snaps onto the top of the EasyShade housing (see **Figure 10**).

Figure 10
Top of solar panel, viewed from behind EasyShade

Flat blade screwdriver inserted into slot behind solar panel

Top of EasyShade housing, viewed from behind

9. With the screwdriver inserted into the slot, pry the solar panel up and away from the EasyShade housing until the solar panel separates from the EasyShade housing (see **Figure 11**).

Up

Solar panel separates from housing

Figure 11

10. Use the Solar Battery Charger to charge the detached solar panel/battery assembly per **steps 1-4** on **page 1**.
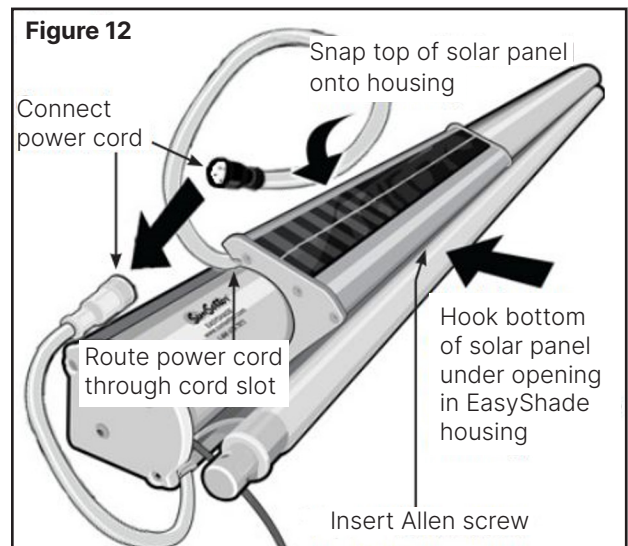
Re-Install EasyShade and Solar Panel

11. Reattach the solar panel to the EasyShade housing.

    a. Before attaching the solar panel to the housing, make sure the solar panel cord is tucked into the cord slot so that it does not interfere with attachment (see **Figure 12**).

    b. Hook the bottom edge of the solar panel under the front of the fabric panel opening of the EasyShade housing(see **Figure 12**).

    c. Press the top of the solar panel firmly over the top front edge of the housing until it snaps into place (see **Figure 12**).

12. Connect the motor power cord to the solar panel cord.
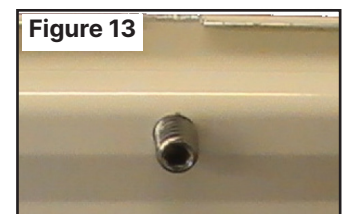
    Note: Connectors are keyed to ensure proper alignment of pins in cable connectors.

    Secure ends together using the screw locking mechanism on connectors.

Note: When positioning the solar panel on the housing, route the connected power cord behind the housing. Move the solar panel far enough away to remove slack in the power cord. The total length of the combined cord is about 4'. For narrow EasyShades, excess cord can be tucked behind the housing.

Figure 12
Snap top of solar panel onto housing

Connect power cord

Route power cord through cord slot

Hook bottom of solar panel under opening in EasyShade housing

Insert Allen screw

13. Secure the solar panel to the EasyShade housing by inserting and tightening the provided Allen set screw into the threaded opening under the bottom edge of the solar panel.
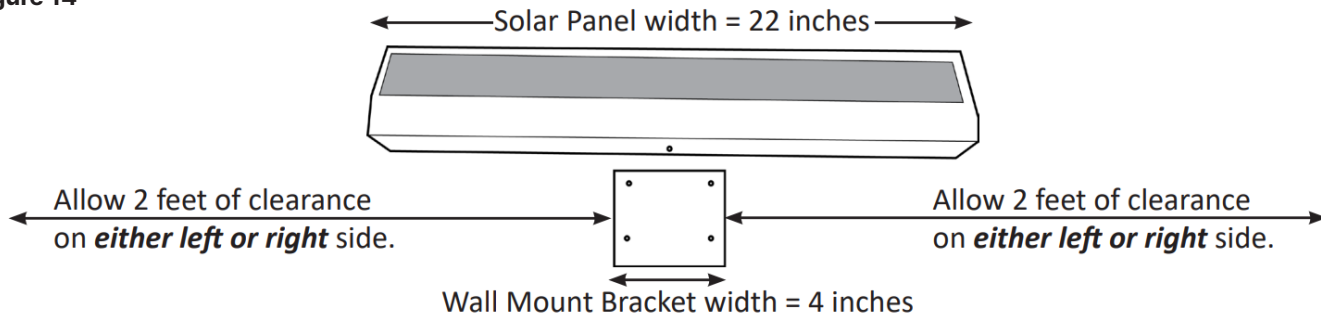
Figure 13

14. With your helper, lift the EasyShade up to the installed mounting brackets and insert the top groove of the EasyShade housing onto the mounting bracket protuding tab (see **Figure 9**).

15. While maintaining upward pressure to keep the top groove of the EasyShade on the tab of the mounting brackets, press the EasyShade toward the mounting brackets and be sure that the set screw is aligned in the recessed portion of the shade assembly (see **Figure 9**).

16. Tighten the set screw in each mounting bracket until the EasyShade is secure.

17. Uncoil the vinyl coated cables at each end of the EasyShade assembly. Allow the coiled cables to hang flat against the mounting surface.

18. Insert the cables through the cable guide holes at each end of the solar screen fabric panel (see **Figure 7**).

19. Place the lower end of one cable through the hole in the cable guide bracket, and from the bottom, slide a cable guide stop onto the cable and secure it in place using a 5/64" Allen wrench. Repeat for the other side (see **Figure 6**).

20. Ensure the cables are tight. Adjust tension using a 7/16" open-end wrench as follows. On each cable guide stop, tighten the cable by turning the 7/16" nut counter clockwise.

    NOTE: DO NOT OVER TIGHTEN THE CABLES.

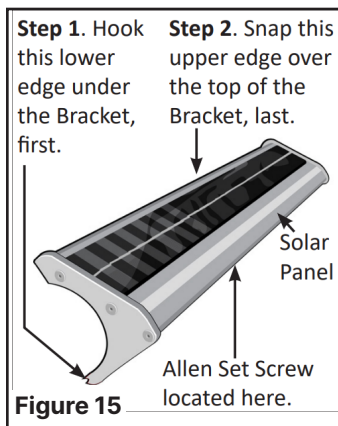21. Test for proper operation. Enjoy.

Figure 14

Solar Panel width = 22 inches

Allow 2 feet of clearance on *either left or right* side.

Allow 2 feet of clearance on *either left or right* side.

Wall Mount Bracket width = 4 inches

INSTALLATION OF SOLAR PANEL TO WALL MOUNT BRACKET

1. Center the solar panel in front of the mounting bracket.

2. Set the bottom of the solar panel against the house, so the Allen set screw (see **Figure 15**) points up toward the bottom of the mounting bracket.

Step 1. Hook this lower edge under the Bracket, first.

Step 2. Snap this upper edge over the top of the Bracket, last.

Solar Panel

Allen Set Screw located here.

Figure 15

3. Hook the lower edge of the solar panel under the lower edge of the mounting bracket (See step 1 in **Figure 15**).

4. Press the top of the solar panel over the top of the mounting bracket, so the top lip of the panel snaps onto the top groove of the bracket (see step 2 in **Figure 15**).

5. Tighten the Allen set screw, under the solar panel, ensuring the solar panel is secured to the bracket and will not slide either left or right.

REMOVAL OF SOLAR PANEL FROM WALL MOUNT BRACKET

1. Disconnect the power cord between the solar panel and the EasyShade motor.

2. Loosen the Allen set screw (see **Figure 15**) under the solar panel.

3. Carefully slide the solar panel to the left or right side, until it separates from the bracket.

<u>CAUTION</u>: **If the solar panel does not easily slide off the Wall Mount Bracket, nudge it gently. Do not use a hammer to bang the solar panel assembly, as permanent damage may occur.**

⚠ **WARNING: WHEN USING A LADDER OR ANY OTHER CLIMBING DEVICE, YOU MUST USE EXTRA CAUTION WHEN SLIDING THE PANEL OFF THE BRACKET.**

WE RECOMMEND TO POSITION THE CLIMBING DEVICE TO THE SIDE TOWARD WHICH YOU WILL BE REMOVING THE PANEL. IT IS HIGHLY RECOMMENDED TO HAVE A HELPER SECURE THE CLIMBING DEVICE. FAILURE TO DO SO COULD RESULT IN A FALL AND IN PERSONAL INJURY!