

This installation requires two people.

Required tools:

- Electric drill
- 1/4" drill bit
- 5/32 Allen wrench
- 7/16 box end wrench
- Digital Voltmeter
- 9/16" or 1/2" box end wrench (depends on battery terminal bolt size.)

Installation of wiring harness:

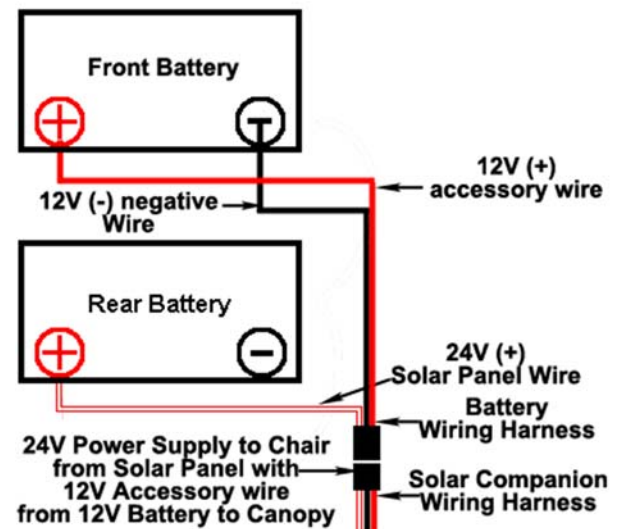
Access the batteries of the mobility device the Solar Companion will be installed on. Using digital voltmeter measure between positive and negative terminals on opposite batteries to determine which pair will supply 24 volts.

Disconnect battery wiring harness from solar companion at plug.

Connect the accessory wire marked "12V" to the positive terminal of the battery that was determined to be the 12V Battery or **Front Battery**.

Connect the solar panel wire marked "24V positive" to the positive terminal that was determined to be the 24V Battery or **Rear Battery**.

Attach the wire marked "negative" to the negative terminal that was determined to be the "12V" **Battery or Front Battery**.

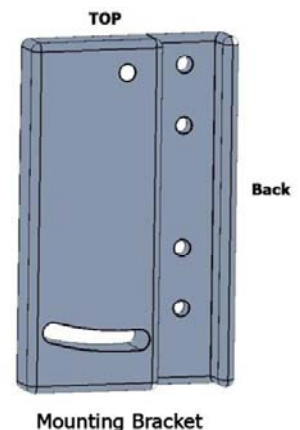


Route wire safely and securely. Reinstall all battery enclosure components.

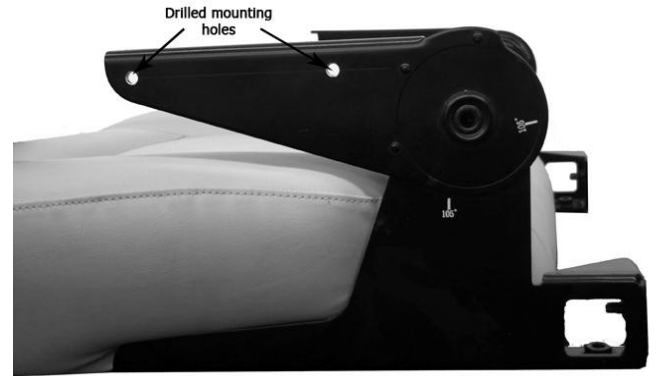
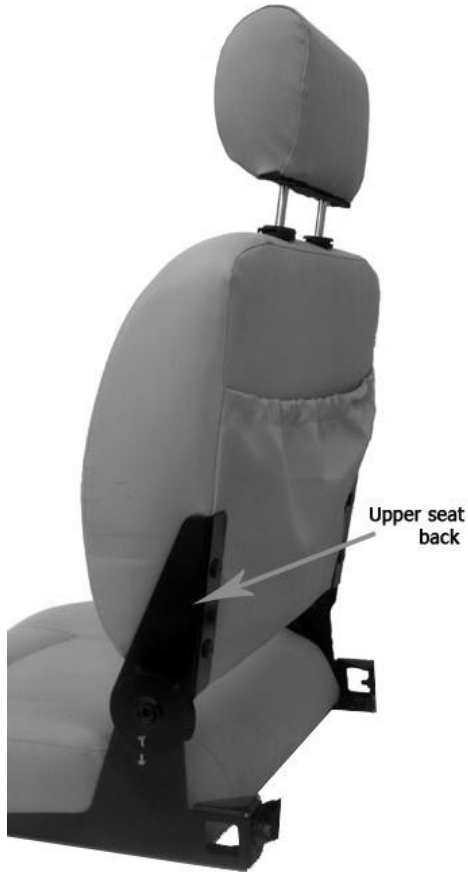
Determining the best mounting system:

For scooters and power chairs that have a pedestal mount we highly recommend the use of our separate pedestal mounting system. See below for pedestal mounting system.

For standard power chairs we recommend the supplied mounting brackets to be located on the upper portion of the seat backs hinge plate. In most cases the seat back will need to be removed from these plates to facilitate installation.



If no existing holes line up with mounting bracket holes the technician will need drill mounting holes in the seat backs hinge plate. Care needs to be taken that drilled mounting holes are even on both sides of the chair.

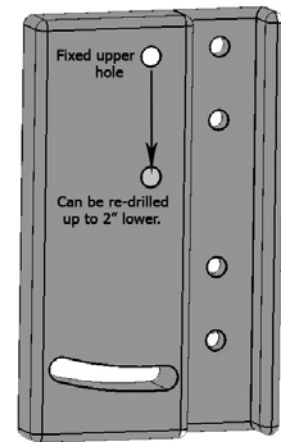


If the hinge plate is determined to be too short the upper fixed hole in the supplied mounting brackets can be lowered up to 2" to either fit an existing hole or a newly drilled hole. **If new holes are drilled, take great care to make both mounts identical.**

Using the supplied 1/4" 20 x 1 1/4" button head Allen screws and 1/4 20 bolts mount the left and right side brackets to the chair.

Bracket should be mounted with the fixed hole towards the top, crescent slot at the bottom. The channel for the Solar Companion should be toward the rear of the chair.

The bolt should not be tightened down all the way at this time. The brackets still need to pivot to adjust the angle of the installed Solar Companion.



Solar Companion mounting holes.

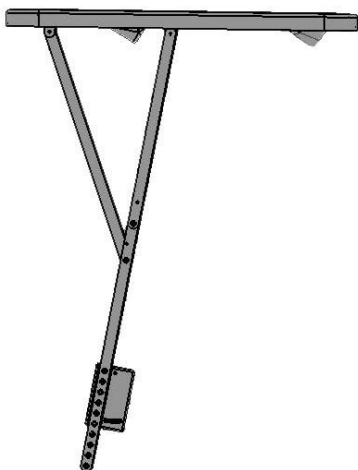
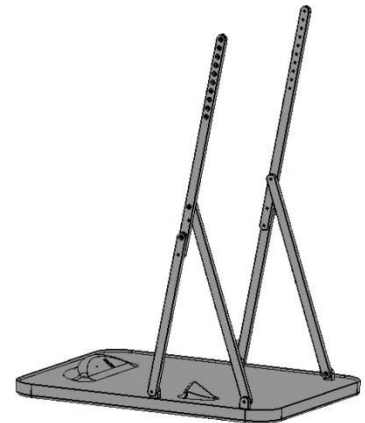
Mounting Bracket

Mounting the Solar Companion:

After mounting brackets are installed place solar companion on a smooth flat surface free of obstructions with the solar panel down. **Care needs to be taken to not damage the solar panel.**

Straighten legs and install safety pins in locked position.

(2) people are required for the installation of the solar companion into the mounting brackets. Position the solar companion in the groove in the brackets and use the supplied 1 1/4" counter sunk screw and nut



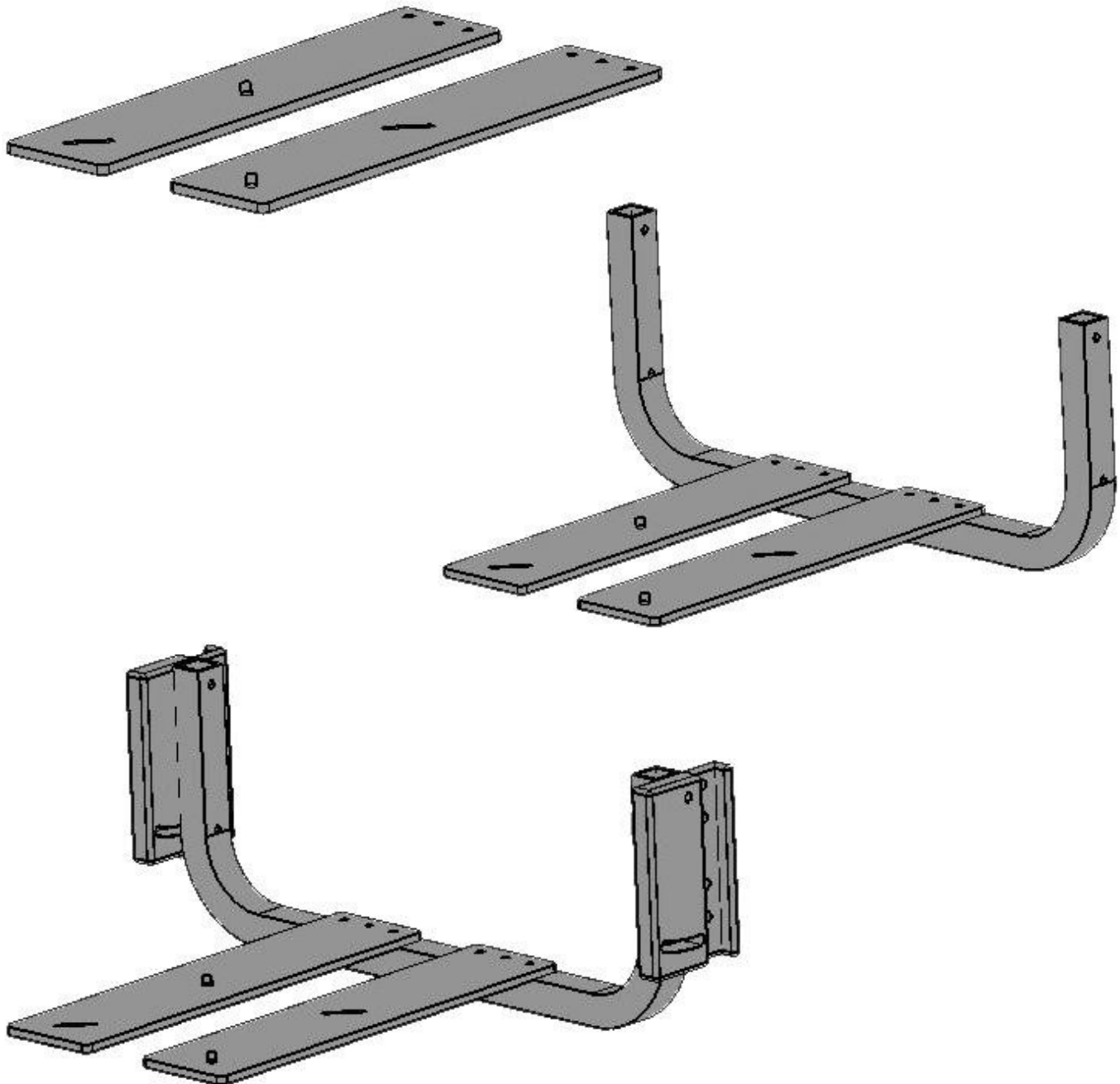
After bolted to brackets tilt the SC so that the canopy is level and tighten mounting bolts starting with the bottom bolts first.

After this is complete your solar companion should not tilt when pushed if so please tighten mounting bracket bolt more.

With the Solar Companion securely installed, connect the wiring harness from the Solar Companion to the installed wiring harness on the mobility device.

Pedestal seat mounting bracket:

Using the (6) supplied 1 1/4 button head allen head screws, attach plates to U mount making sure slots in plates form an X shape (see below) leaving bolts slightly loose until seat is mounted. Install Solar Companion mounting plates to U mount with solid hole to the top, and the crescent slot at the bottom. The channel for Solar Companion should be toward the rear of the chair. Tighten six bolts left loose earlier. The X shaped slots should conform to the seat mounting bolt pattern. The pedestal seat mount is designed to mount between the seat and seat base.



Illustrated Parts Diagrams

SOLAS COMPANION

Solar Companion Parts List

Part #	Part Description	Quantity
1	70 Watt Solar Panel with 27 volt Controller	1
2	Yellow Canopy Top	1
3	Black Canopy Frame	1
4	Black Under Panel	1
5	Yellow Arm Long-R	1
6	Yellow Arm Short-R	1
7	Black Mount Leg-R	1
8	Universal Mount R	1
9	Universal Mount L	1
10	Black Mount Leg-L	1
11	Yellow Arm Short-L	1
12	Yellow Arm Long-L	1
13	R- Review Mirror	1
14	L- Review Mirror	1
15	Strobe Controller	1
16	12 V Power Port	1
17	¼-20 1 ½" Socket Screws	8
18	¼-20 1 ¼" Socket Screws	4
19	¼-20 Nylock Nuts	12
20	¼" Nylon Flat Washer	8
21	¼" Flat Washer	12
22	Black Pop Rivets	37
23	LED Light 1 Red, 1 White, 2 Amber	4
24	Toggle Switch for LED's	1
25	Lock Pins	2

