Aqua Creek Products
The Total Solution for Pool and Spa Access

24V Solar Charger Instructions

active forever
IMPROVING OUTCOMES. IMPROVING LIVES.

PART #: F-044SCH

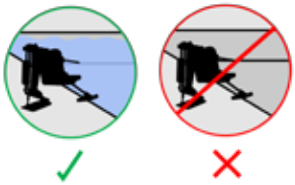
(For use with Pro Pool, Ranger, Pro Pool-XR & Pathfinder)

MANDATORY – LEAVE THIS MANUAL WITH LIFT OWNER

Read & follow all instructions
Lift safety can only be ensured if the lift is installed and operated according to these instructions

NEVER permit children to play on or around the lift
Do not allow children to use the lift without adult supervision

NEVER apply direct water pressure to the electronics



NEVER use the lift with a dry pool

For safety reasons, NEVER swim alone

9889 Garrymore Ln
Missoula, MT 59808
888-687-3552 | +1-406-549-0769
aquacreek.com

SAVE a copy of these instructions

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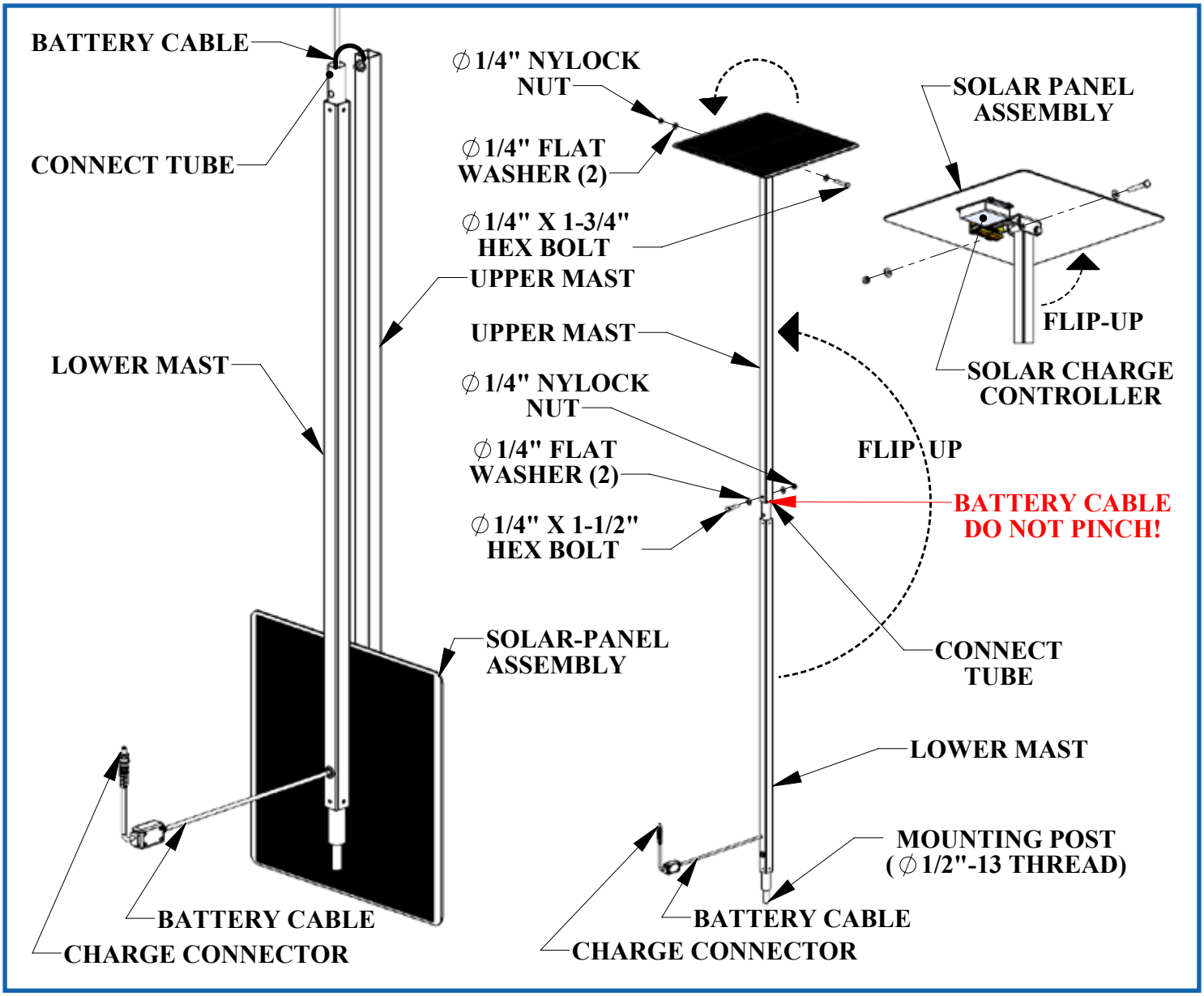
Revised 5/1/15

Unpacking and Assembly



To assemble the Solar Charger you will need two (2) 7/16" wrenches or sockets.

The 24V Solar-Charger comes fully wired, in two halves for shipping. To assemble the charger remove it from the shipping box and connect the UPPER MAST to the LOWER MAST by flipping the UPPER MAST up and sliding the CONNECT TUBE inside the UPPER MAST and aligning the holes as shown above. Pull the BATTERY CABLE and the CHARGE CONNECTOR through the tube as you slide the TOP ASSEMBLY down. DO NOT PINCH THE BATTERY CABLE! Install the supplied 1/4" x 1 1/2" hex bolt, the flat washers and Nylock-nut as shown. Tighten until snug.

Next, flip-up the SOLAR PANEL ASSEMBLY until it is flat-horizontal, and install the 1/4" x 1 3/4" hex bolt and flat washer underneath as shown. Install the 2nd flat washer and the Nylock nut on the opposite side, and tighten until snug. The Solar Charger is now ready to install on your pool lift.

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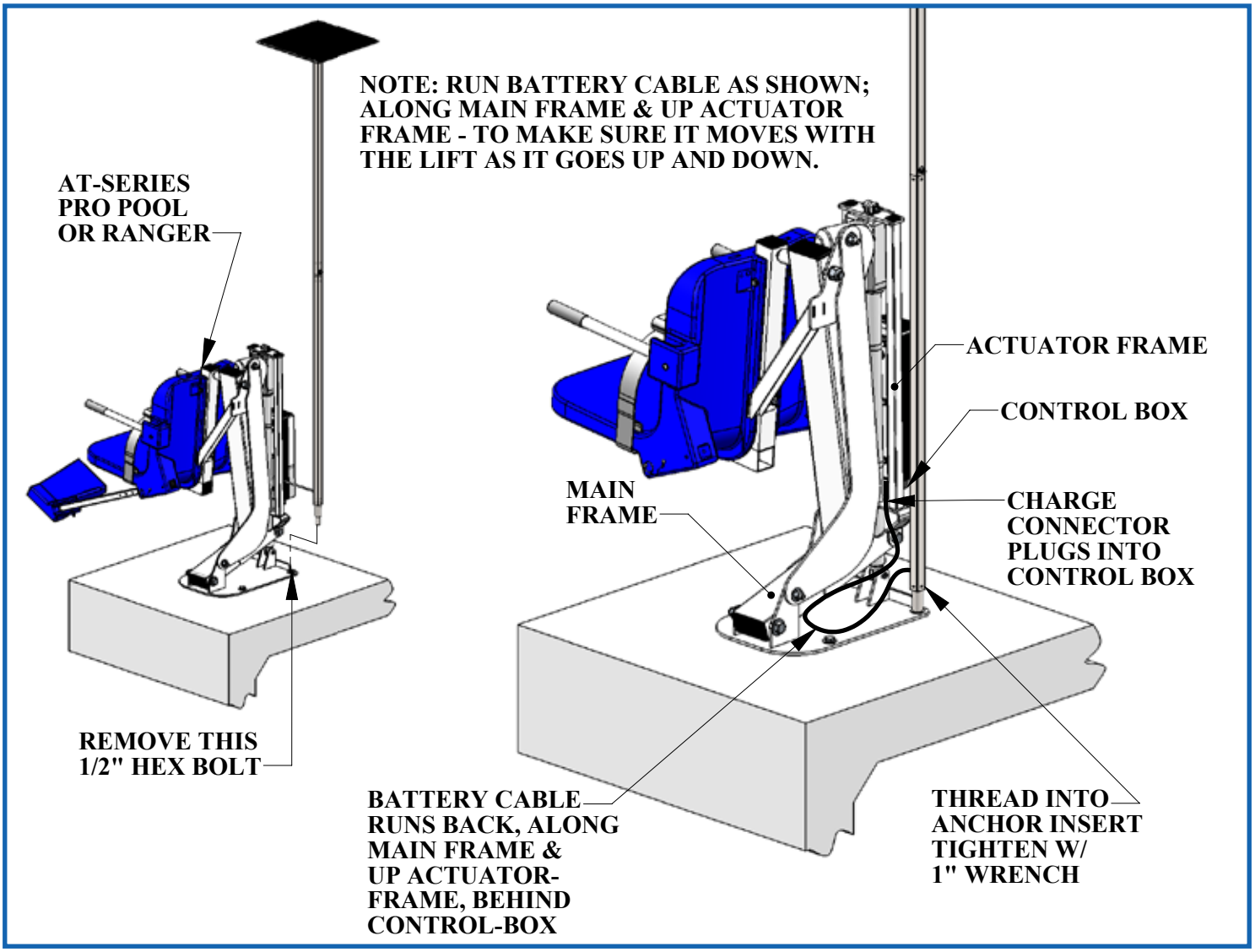
Pro Pool & Ranger Installation



To install the Solar Charger on a Pro Pool-AT or Ranger-AT lift;

STEP 1: Remove the 1/2" hex bolt from the baseplate as shown above.
STEP 2: Place the 24V Solar Charger over the baseplate of the lift as shown.
STEP 3: Align the mounting stud with the baseplate & anchor insert. Thread the mounting stud into the anchor insert and tighten. Use a 1" wrench to make sure it is snug.
STEP 4: Run the BATTERY CABLE under the MAIN FRAME TUBE as shown. It will run to the CONTROL BOX, and the CONNECTOR will plug into the control box.
(See INSTALLING THE CHARGE CONNECTOR).

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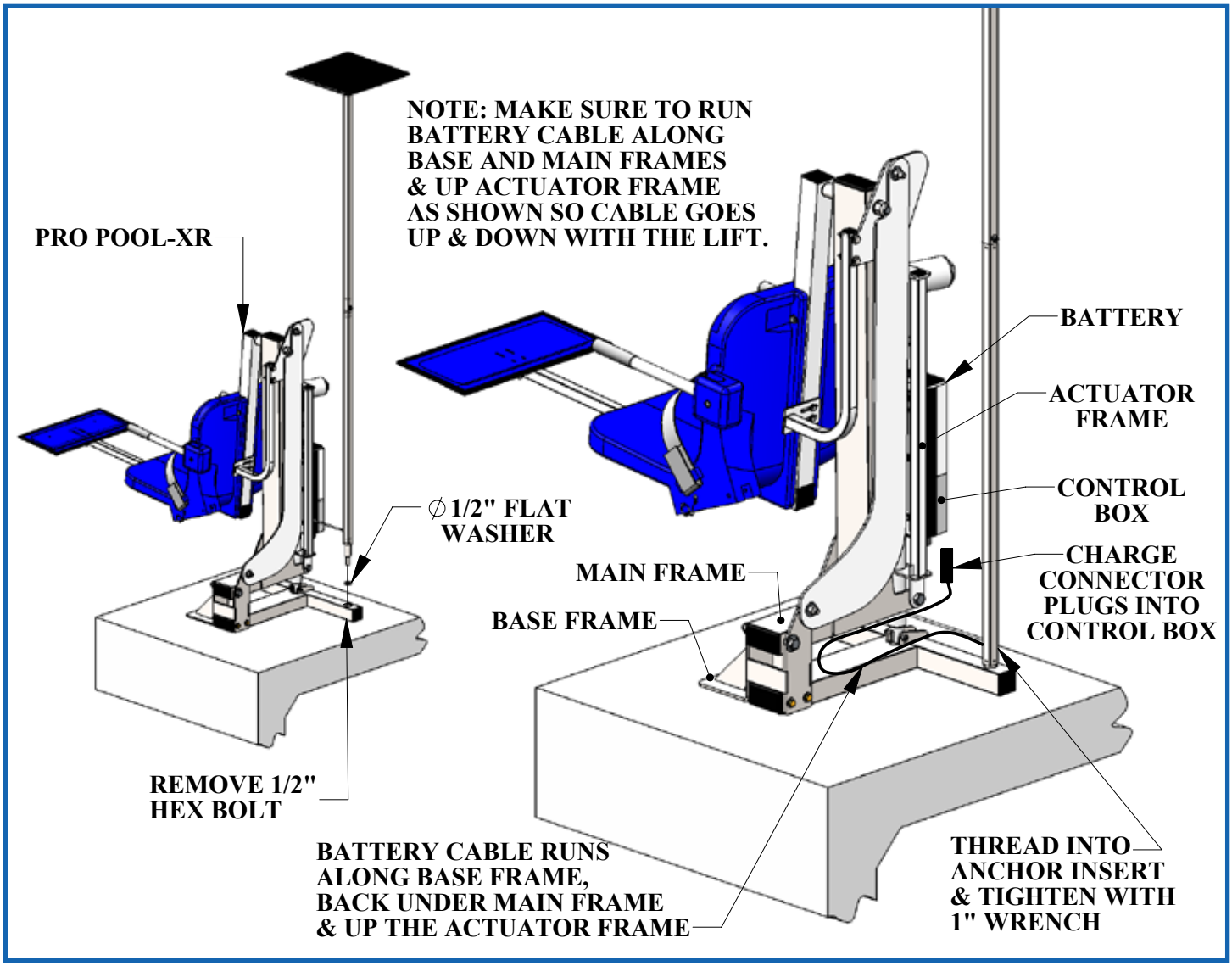
Pro Pool-XR Installation



To install the Solar Charger on a Pro Pool-XR lift;

STEP 1: Remove the 1/2" hex bolt from the back anchor insert as shown above.
STEP 2: Place the 24V Solar Charger over the base frame where the bolt was removed.
STEP 3: Align the mounting stud with the base frame & anchor insert. Thread the mounting stud into the anchor insert and tighten. Use a 1" wrench to make sure it is snug.
STEP 4: Run the BATTERY CABLE along the base frame, back under the main frame, and up the actuator frame as shown. The battery cable runs behind the CONTROL BOX, and the CONNECTOR will plug into the control box (see INSTALLING THE CHARGE CONNECTOR).

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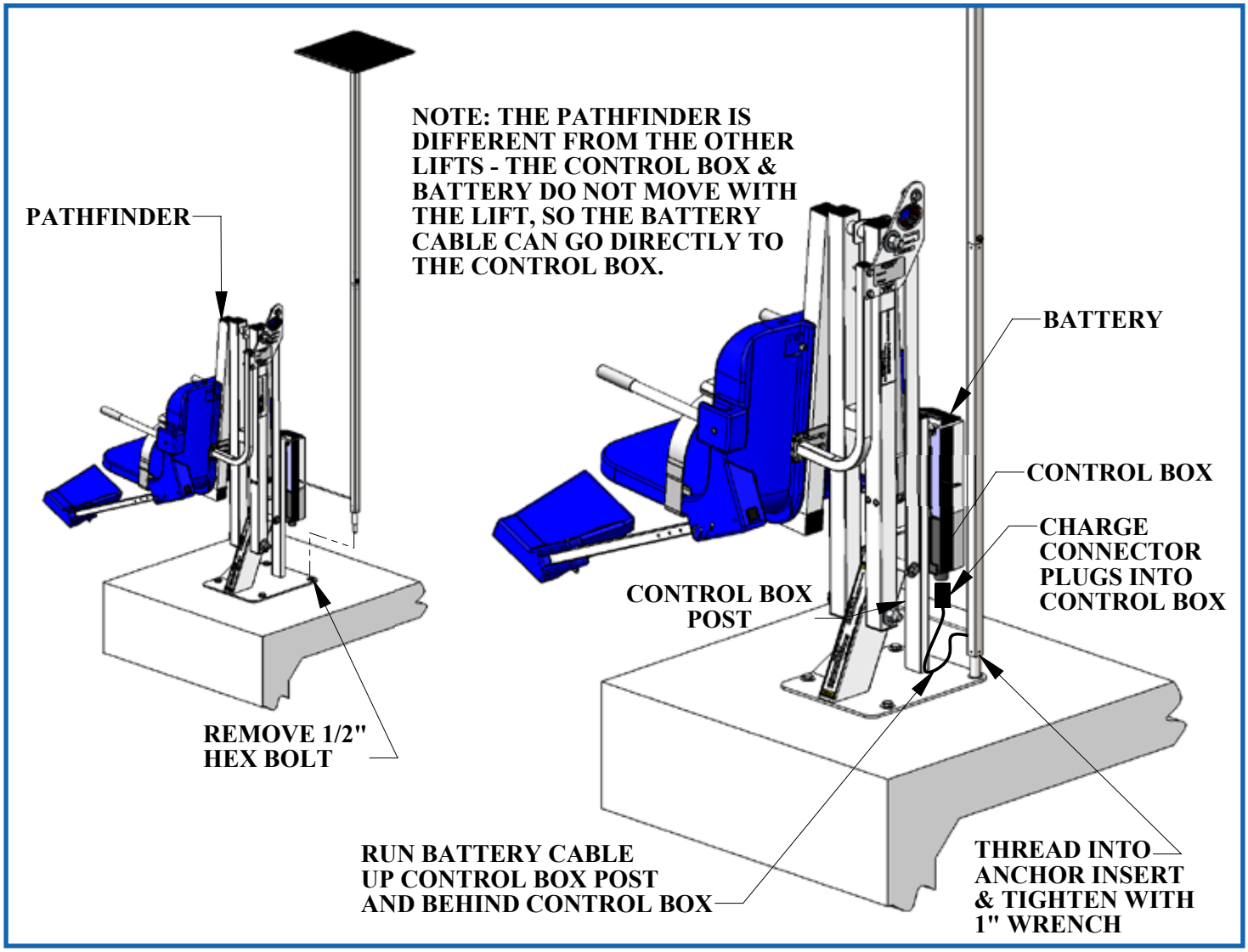
Pathfinder Installation



To install the Solar Charger on a Pathfinder lift.

STEP 1: Remove the 1/2" hex bolt as shown above.
STEP 2: Place the Solar Charger over the baseplate as shown.
STEP 3: Align the mounting stud with the baseplate & anchor insert. Thread the mounting stud into the anchor insert and tighten. Use a 1" wrench to make sure it is snug.
STEP 4: Run the BATTERY CABLE up the CONTROL BOX POST behind the control box. The CONNECTOR will plug into the control box (see INSTALLING THE CHARGE CONTROLLER).

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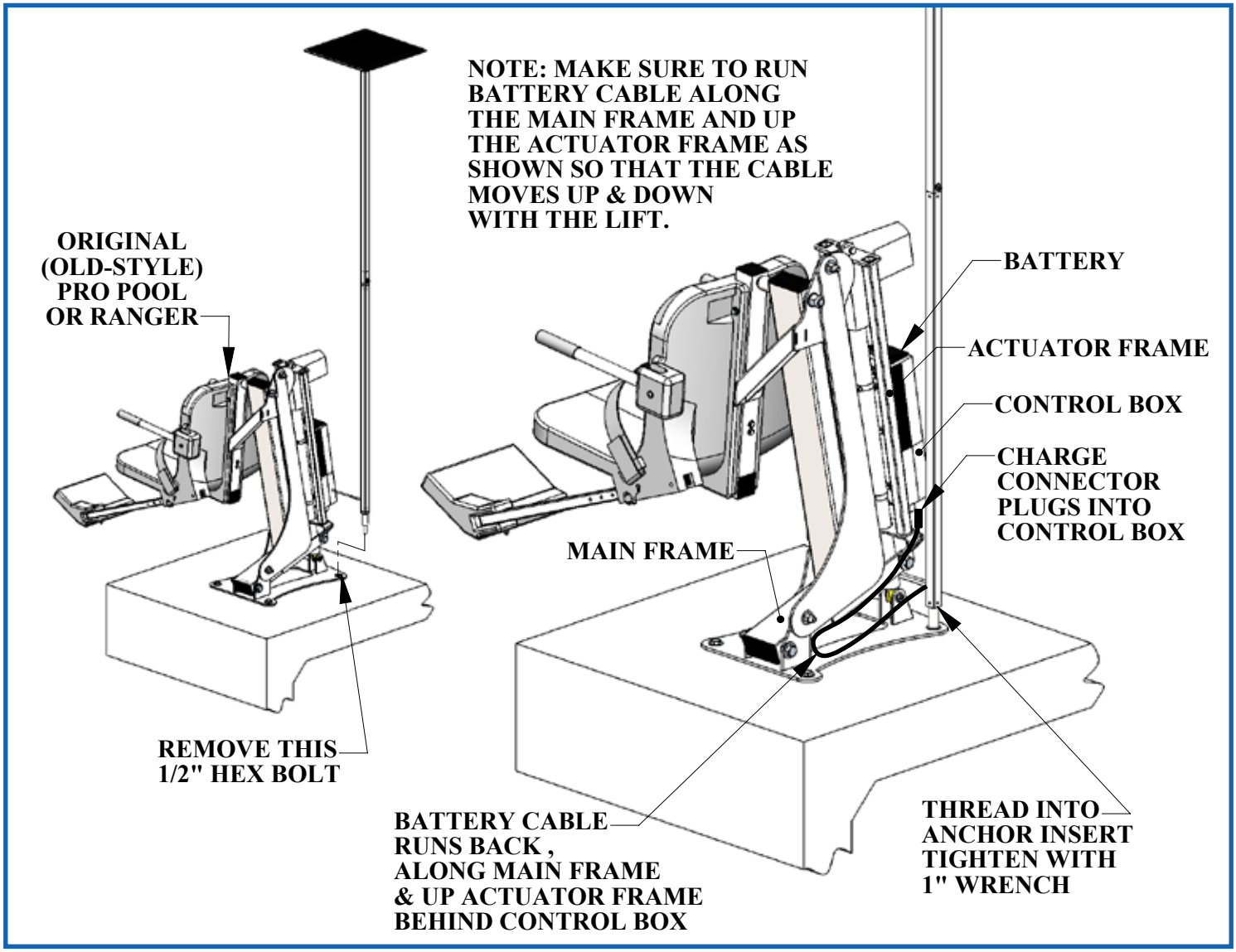
Original Pro Pool & Ranger Installation



Installing the Solar Charger on an original-style Pro Pool/Ranger Lift;

STEP 1: Remove the 1/2" hex bolt from the baseplate as shown above.
STEP 2: Place the 24V Solar Charger over the baseplate of the lift as shown.
STEP 3: Align the mounting stud with the baseplate & anchor insert. Thread the mounting stud into the anchor insert and tighten. Use a 1" wrench to make sure it is snug.
STEP 4: Run the BATTERY CABLE under the MAIN FRAME TUBE as shown. It will run to the CONTROL BOX, and the CONNECTOR will plug into the control box.
(See INSTALLING THE CHARGE CONNECTOR).

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Control Box Modification Instructions

Check to make sure the far right plug in does not have a plastic disk at the top of the hole. If it has a plastic disk, follow the instructions on how to remove it. If the hole is clear, skip to "Installing The Charge Connector".

**TO OPEN THE CONTROL BOX
USE A TORX T20 DRIVER**

**"TORX" T20 DRIVER FOR
OPENING CONTROL-BOX**

REMOVE THE FOUR (4) SCREWS FROM THE TOP OF THE CONTROL BOX: LEAVE SCREWS IN HOLES

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Control Box Modification Instructions

REMOVE THE COVER AND PLACE ON TABLE RIGHT-SIDE UP: NOTE POSITION OF EMERGENCY-SWITCH CAP

USE A "TORX" T10 DRIVER TO REMOVE THE THREE (3) SCREWS FROM THE CONTROL BOARD

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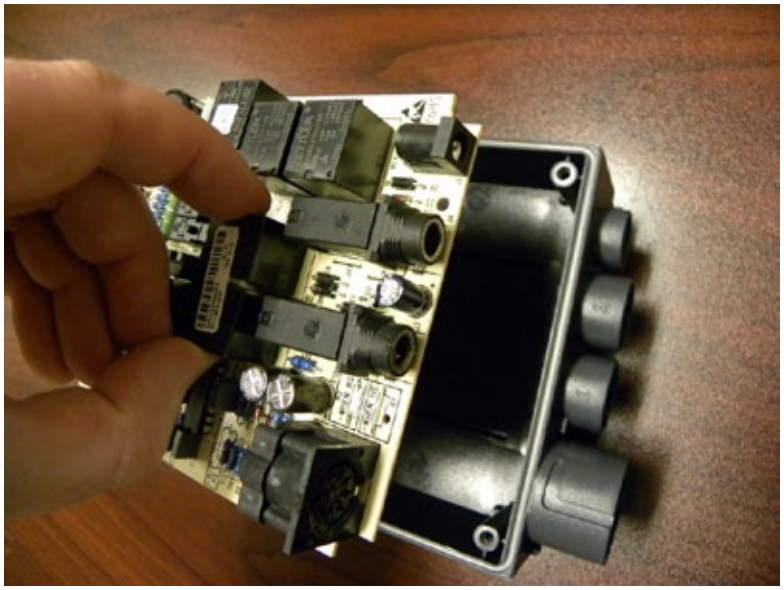
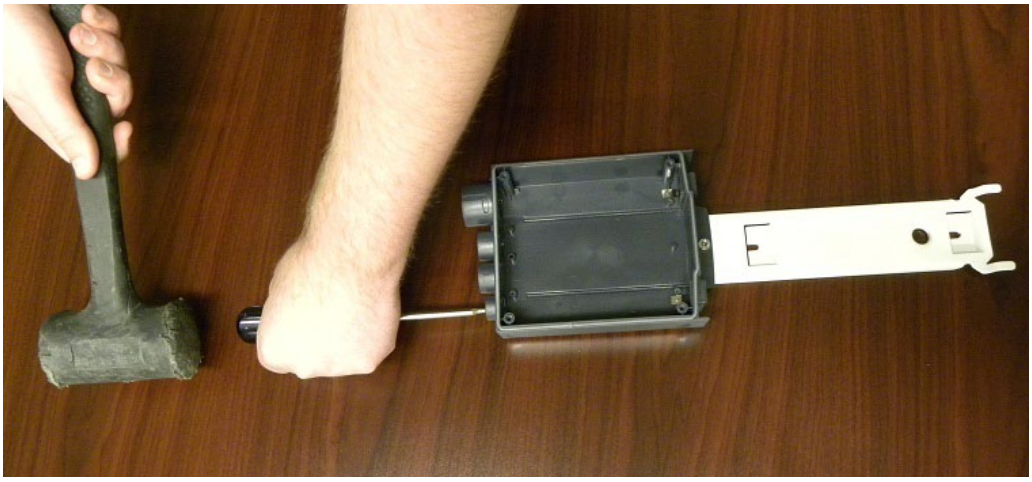
Control Box Modification Instructions



REMOVE THE CONTROL BOARD FROM THE CONTROL BOX



USE SCREWDRIVER, AND MALLET IF NECESSARY, TO PUNCH-OUT AND REMOVE PLASTIC-DISC ON 24V INPUT/OUTPUT PORT

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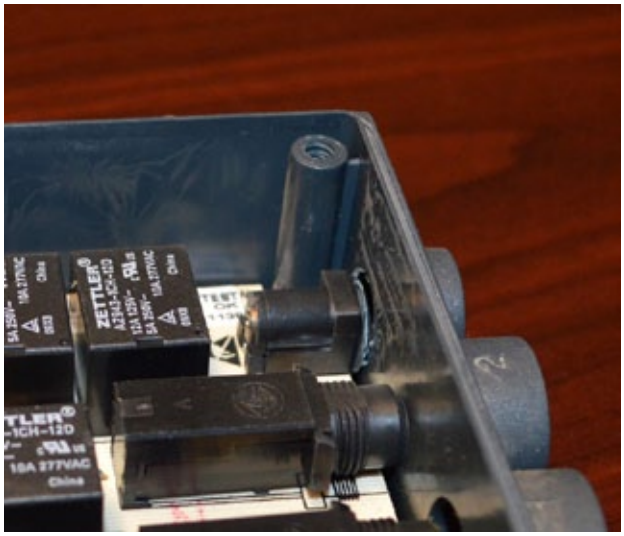
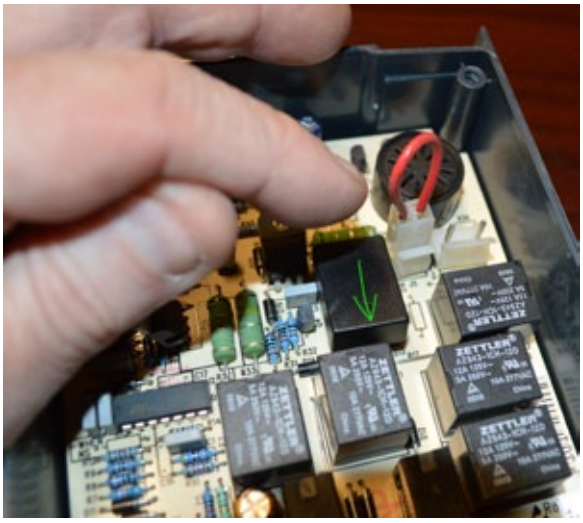
Control Box Modification Instructions



PLACE THE CONTROL BOARD BACK IN PLACE INSIDE THE CONTROL BOX

RETURN THE THREE (3) SCREWS TO SECURE THE CONTROL BOARD BACK IN PLACE



REPLACE THE EMERGENCY-SWITCH CAP WITH "ARROW" POINTING DOWN AS SHOWN

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Control Box Modification Instructions

PUT COVER ON AND REINSTALL SCREWS

TEST EMERGENCY-SWITCH WITH DRIVER, LISTEN FOR "CLICK"

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Installing the Charge Connector

STEP 5: Run the BATTERY CABLE behind the control box as shown, and plug the BATTERY CONNECTOR into the control box.

NOTE: The BATTERY CABLE must be run along the main frame as shown so it follows the lift as it goes down into the water. Run the lift up and down to make sure the cable has been installed properly.

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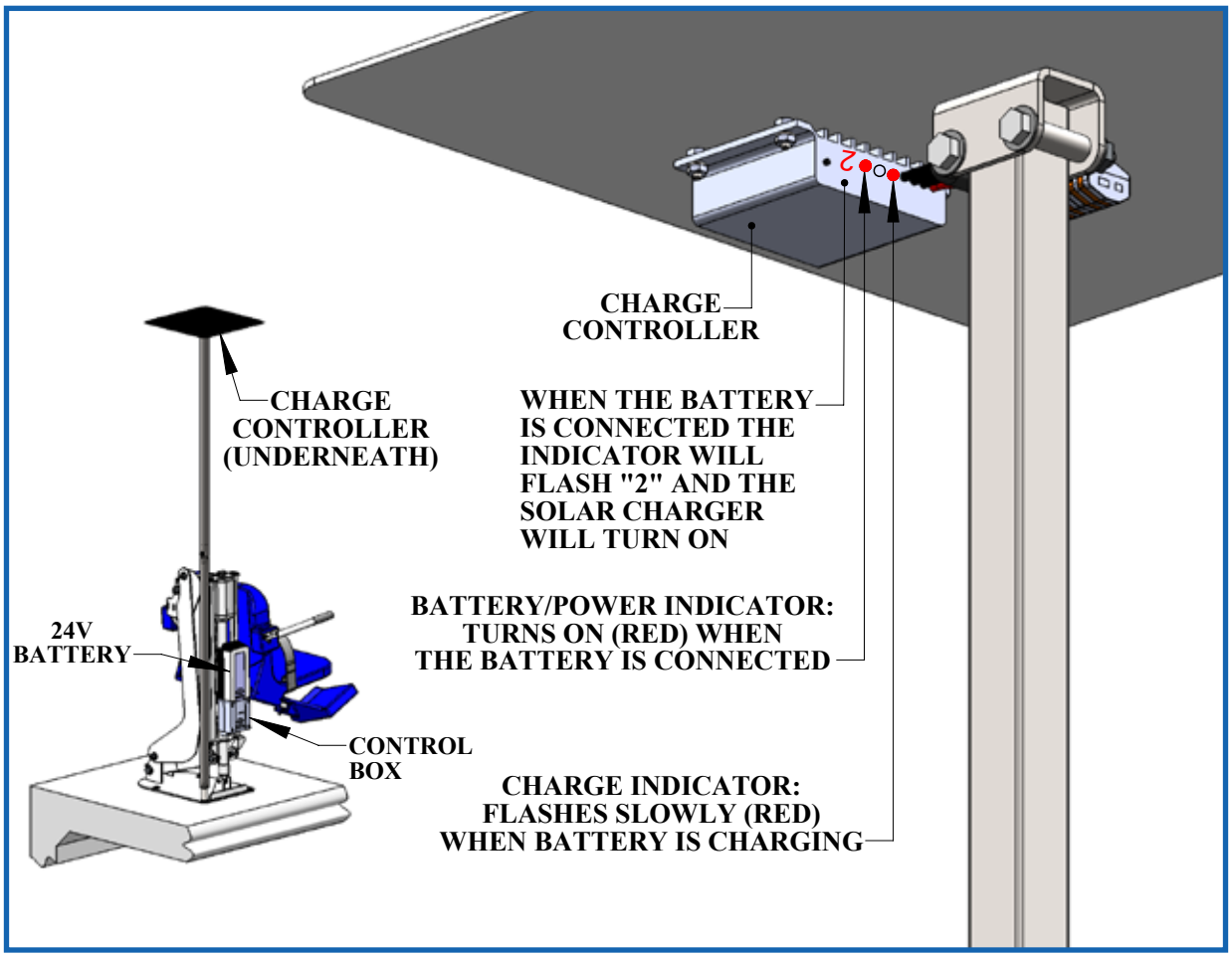
Solar Charger Operation



Once the BATTERY CONNECTOR has been installed, and a battery is installed onto the lift the 24V Solar Charger will turn on and start trickle-charging the battery. Without the battery installed the 24V Solar Charger will be off, and will remain off until a battery is installed.

When a 24V battery is installed onto the lift the LED INDICATOR will flash "2" to show that a 24V battery has been detected and the charger is operational.

The Solar-Panel power indicator will light up (red) when the Solar Charger has been properly attached to the battery. The charger will work even on cloudy days, but not as efficiently.

When the battery is installed and there is sufficient sunlight, the CHARGE INDICATOR will flash (red) slowly, indicating the battery is being charged. When the controller detects the battery is fully charged the flashing will stop. Under most conditions the CHARGE INDICATOR light will be flashing whenever a battery has been installed.

The 24V Solar Charger will continue to charge the battery, even as the lift is being used. So once the 24V Solar Charger has been installed it will function without any need for adjustment. The user should check the indicators periodically to make sure it is working.

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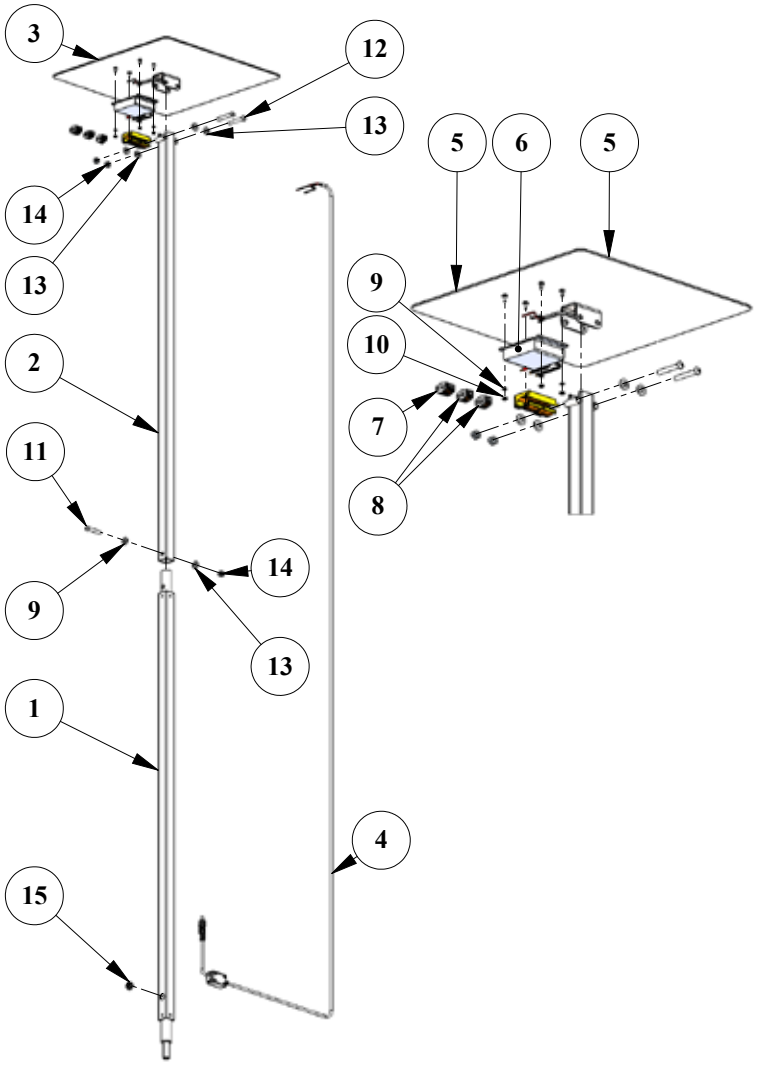
Solar Charger Parts List



ITEM #	QTY	PART #	DESCRIPTION
1	1	PSC-100-00	LOWER MAST ASSEMBLY, PP SOLAR CHARGER
2	1	PSC-200-00	UPPER MAST ASSEMBLY, PP SOLAR CHARGER
3	1	PSC-300-00	TOP PLATE ASSEMBLY, PP SOLAR CHARGER
4	1	VSCC1	CABLE, SOLAR CHARGER CABLE, VITO
5	2	P-WSME-0040	SOLAR PANEL, 4 WATT MOBILE
6	1	P-LCSC-A1	CONTROLLER, 12/24V SOLAR, 10A, IP68 RATING
7	2	222-412	CONNECTOR, WAGO, 2 LEVER
8	1	222-413	CONNECTOR, WAGO, 3 LEVER
9	4	FLAT WASHER, #4 SS	WASHER, FLAT, #4, 316 SS
10	4	NYLOCK, #4-40 316 SS	NUT, 316 SS, NYLOCK, #4-40
11	1	BOLT, 1/4-20 X 1 1/2 BHSCS	BOLT, 316 SS, 1/4-20 X 1 1/2 BHSCS
12	2	BOLT, 1/4-20 X 1 3/4 BHSCS	BOLT, 316 SS, 1/4-20 X 1 3/4 BHSCS
13	6	FLAT WASHER, 1/4 SS	WASHER, FLAT, 1/4, 316 SS
14	3	NYLOCK, 1/4-20 SS	NUT, 316 SS, NYLOCK, 1/4”-20
15	1	GROMMET, 5/16 X 1/2	GROMMET, CHARGER, 5/16 ID X 1/2

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Revised: 5/1/2015

AQUA CREEK PRODUCTS, LLC LIMITED ONE (1) YEAR WARRANTY: SOLAR CHARGING SYSTEMS (ITEM #'s F-043SCH, F-044SCH, F-045SCH)

Aqua Creek Products, LLC (a.k.a. Aqua Creek) warrants to the original end user purchaser that products manufactured by Aqua Creek, when properly installed in accordance with assembly and installation instructions and properly used and maintained, shall be free from defects in material and workmanship for a period of one (1) year from the date of original purchase, provided that Aqua Creek receives prompt notice in writing of any defect or failure and satisfactory proof thereof, with the following exceptions:

Exceptions:

- All electrical components shall be warranted for a period of ninety (90) days from the date of original purchase.
- This warranty specifically excludes reimbursement for labor to remove, repair, or install the product and any freight charges.
- This warranty does not cover any damages due to accident, misuse, abuse, negligence or failure to properly maintain any products, or normal wear and tear from day to day operations.
- In the event that any products are altered, repaired, or improperly installed by anyone without the prior written approval by Aqua Creek, all warranties are void.

To initiate a warranty claim, the owner of an Aqua Creek product must provide the place of purchase, in writing, with a full description of the product, its serial number, the dates of purchase and installation, and the exact nature of the defect. Within thirty (30) days after receipt of a written warranty claim by Aqua Creek, and barring any unforeseen delays, the place of purchase will be notified of Aqua Creek's decision regarding the claim. All warranty calculations are from date of original purchase at manufacturer's suggested retail price. Non-payment for product to Aqua Creek may void warranty.

If requested by Aqua Creek, any defective product must be returned, freight prepaid, to Aqua Creek's designated factory location or duly appointed distributor for inspection and/or repair. Aqua Creek will, at its option, repair or replace the failed or defective item, and deliver the repaired product or replacement to the seller of the product, freight prepaid to the destination provided for in the original order. Products returned to Aqua Creek for which Aqua Creek provides replacement under this limited warranty shall become the property of Aqua Creek.

A new warranty period shall NOT be established for the repaired or replaced products. Such products shall remain under warranty only for the remainder of the original warranty period on the original products purchased.

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Aqua Creek Products, LLC
9889 Garrymore Lane
Missoula, MT 59808
(888) 687-3552 – (406) 549-0769
www.aquacreek.com

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