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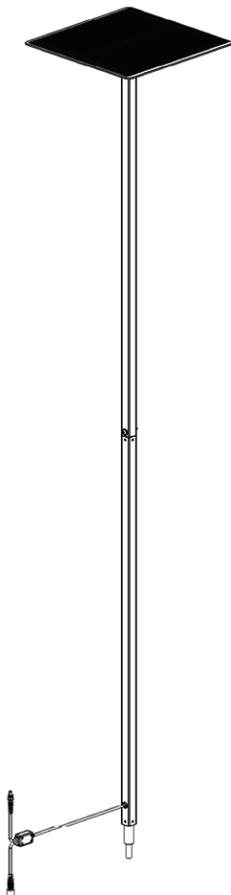
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24V Solar Charger

Instructions



PART #: F-044SCH
**(For use with Pro Pool, Ranger,
Ambassador & Pathfinder)**

MANDATORY
LEAVE THIS MANUAL WITH LIFT OWNER

Read and 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

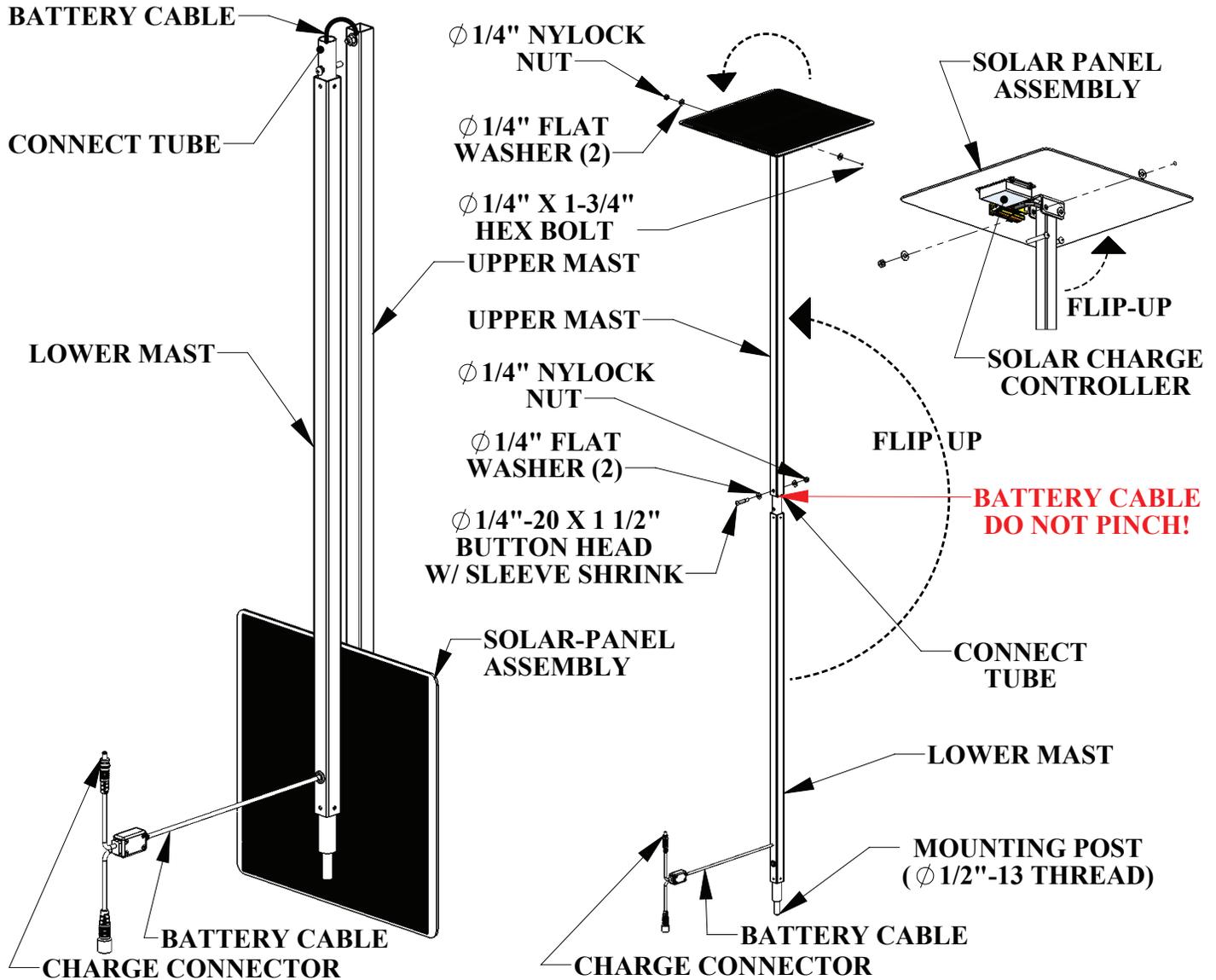
READ CAREFULLY

Check entire box and all packing materials for parts. Before beginning assembly, read the instructions and identify parts using the figures and parts listed in this document.

It is critical that all parts be carefully inspected prior to installation. If any damage occurred in transit, Aqua Creek Products, LLC must be notified within three days of receipt of unit.

Proper installation cannot be overstressed, as an improper installation voids Aqua Creek's warranty and may affect the safety of the user.

Unpacking and Assembly

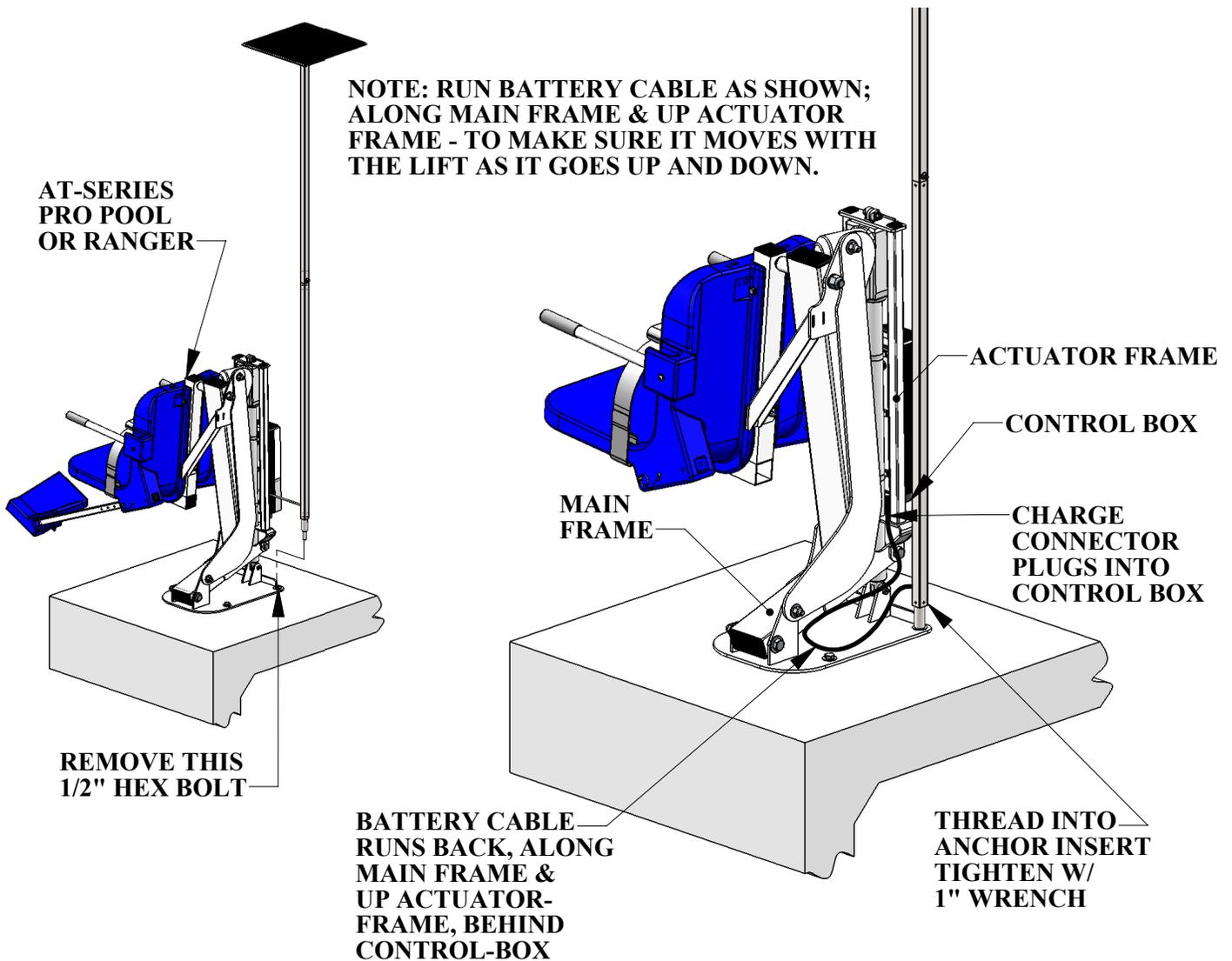


To assemble the Solar Charger you will need two (2) 7/16" wrenches or sockets and a 5/32" allen key.

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" button head 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.

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.

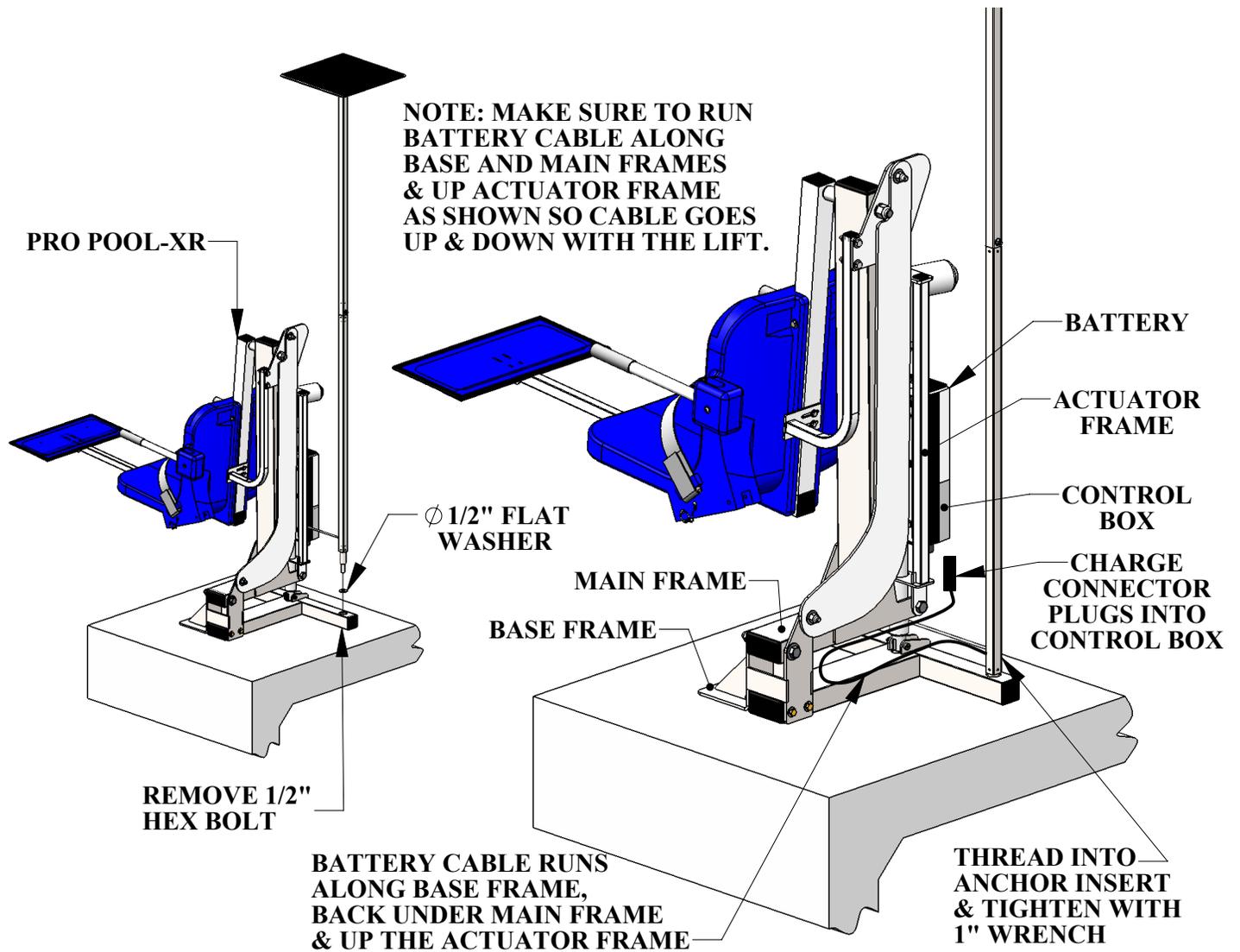
STEP 2: Place the 24V Solar Charger over the baseplate of the lift as shown.

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).

Pro Pool-XR Installation



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

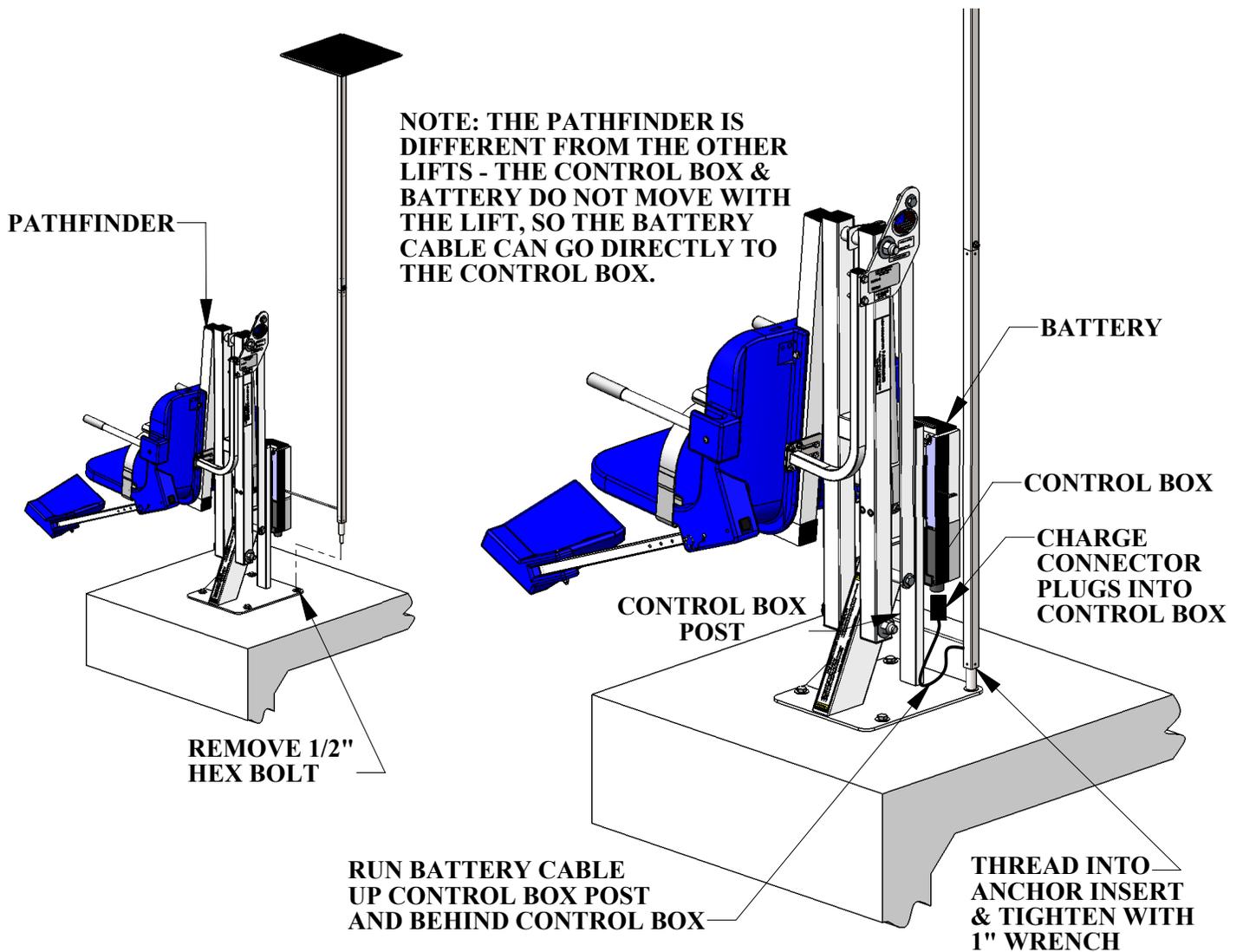
STEP 1: Remove the 1/2" hex bolt from the back anchor insert as shown above.

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).

Pathfinder Installation



To install the Solar Charger on a Pathfinder lift.

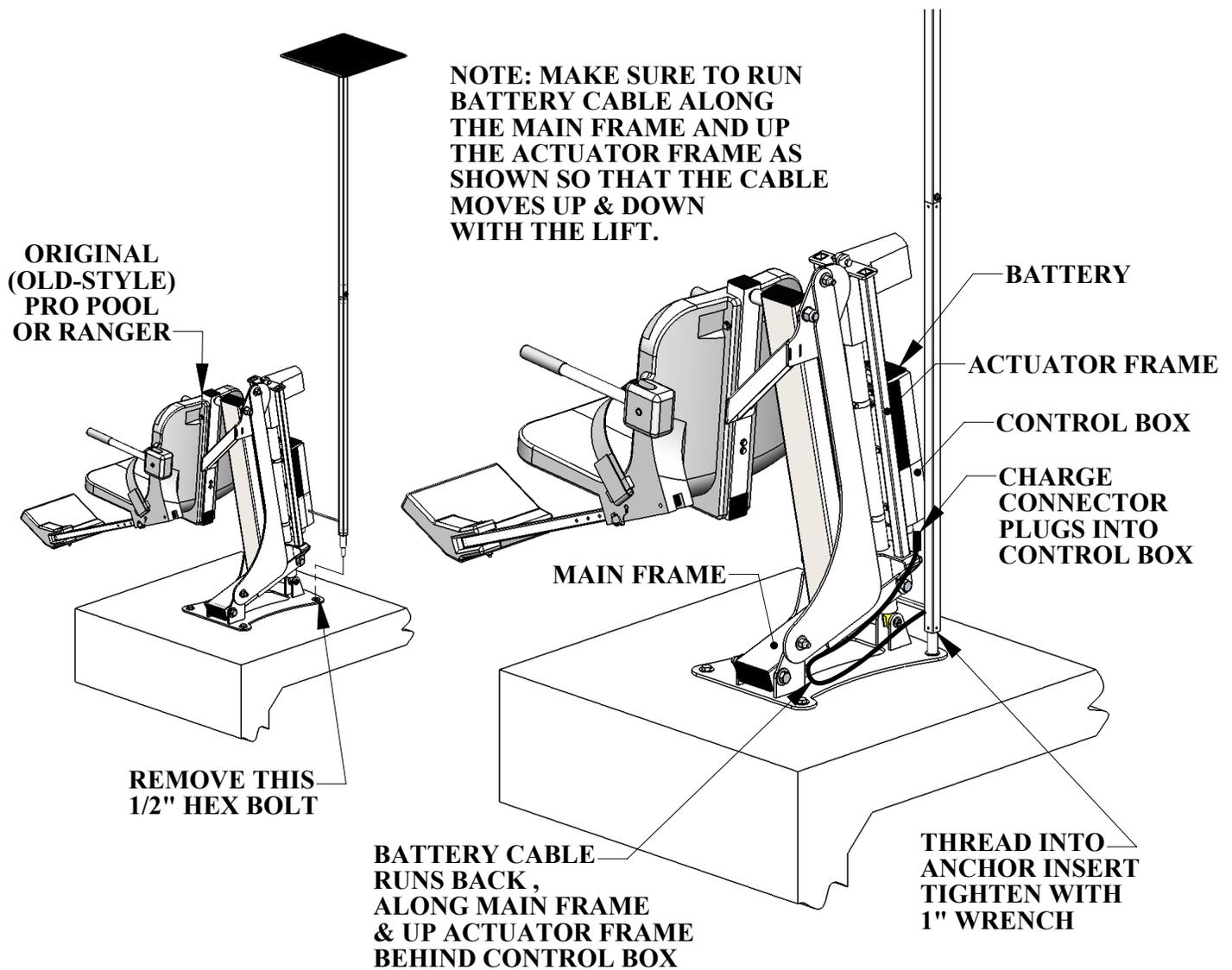
STEP 1: Remove the 1/2" hex bolt as shown above.

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).

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).

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".

NOTE: Removing the plastic disk voids the warranty of the control box! A new solar charger ready control box can be purchased, if you do not wish to void your control box warranty. Contact Aqua Creek for additional information.



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



Control Box Modification Instructions

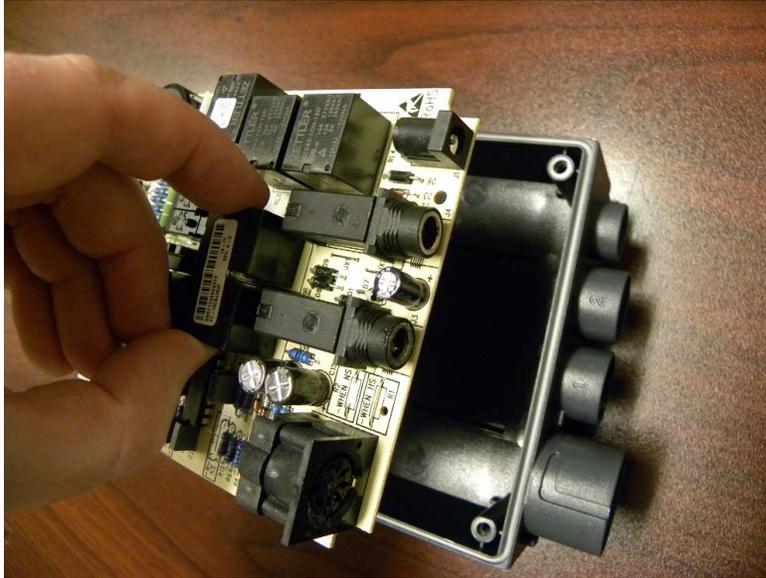


REMOVE THE COVER AND PLACE ON TABLE RIGHT-SIDE UP: NOTE POSITION OF EMERGENCY-SWITCH CAP



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

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**

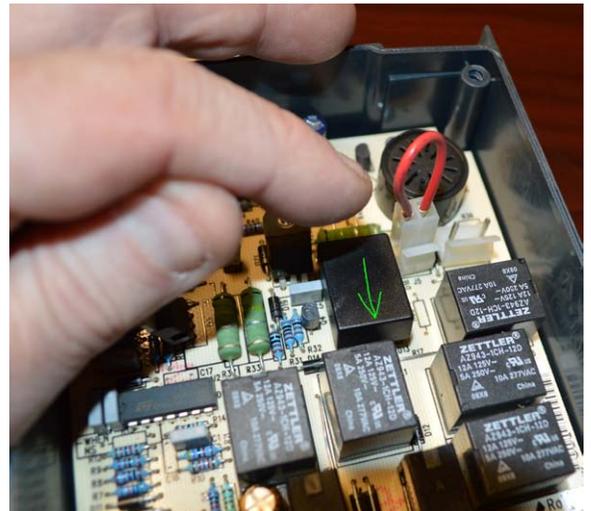
Control Box Modification Instructions



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

Control Box Modification Instructions



PUT COVER ON AND REINSTALL SCREWS



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

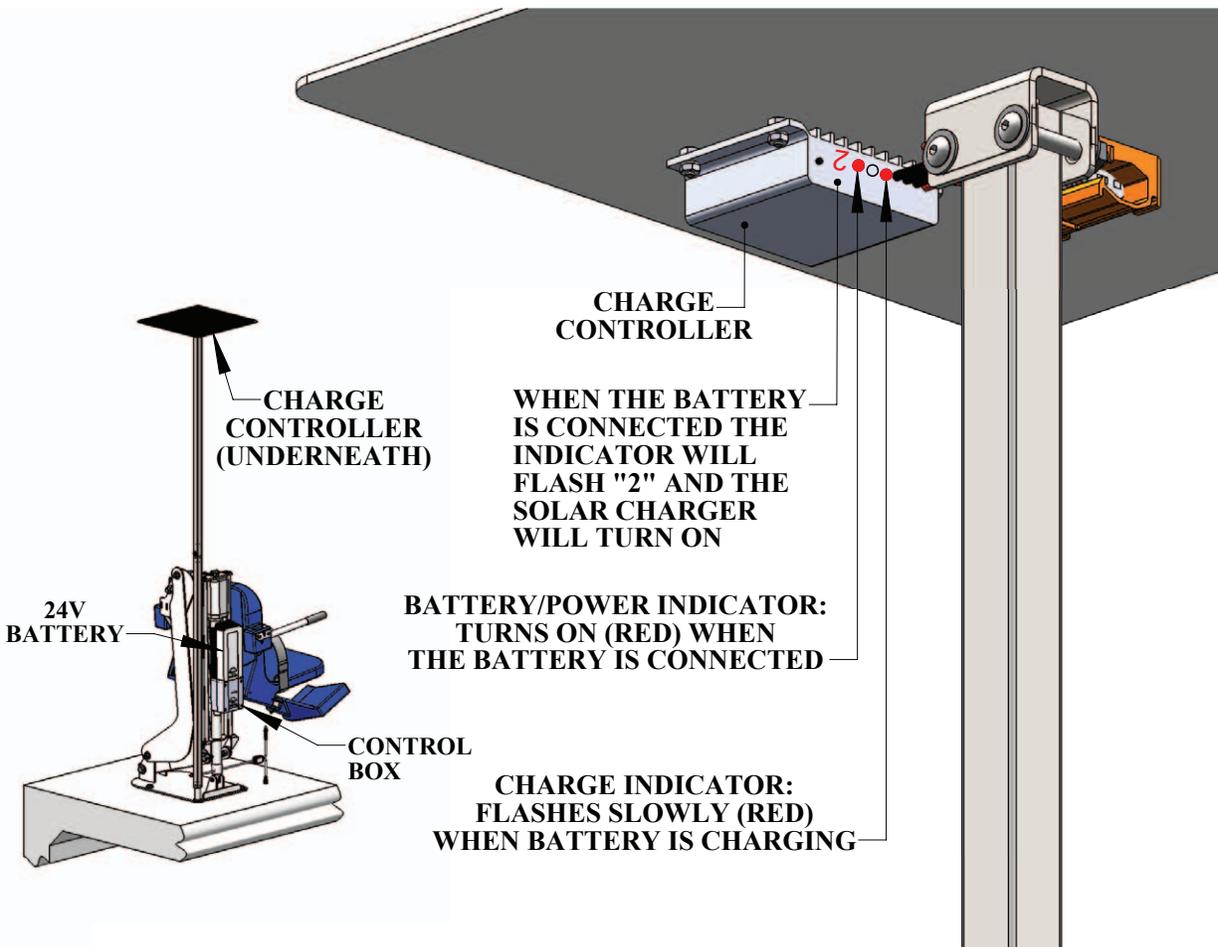
Installing the Charge Connector



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.

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.

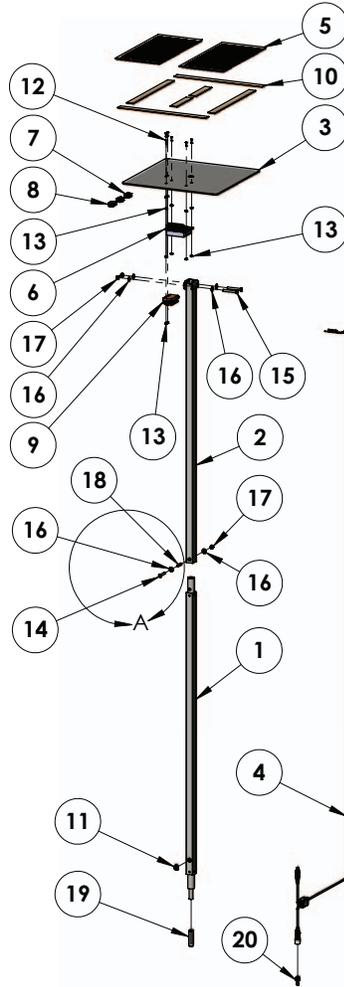
Battery Maintenance

1. Do NOT expose the battery to freezing temperatures.
2. Do NOT expose the battery to prolonged periods of extreme heat or severe cold temperatures.
3. Do NOT expose the battery to temperatures below 0 degrees Celsius (32 degrees F.)
4. Do NOT expose the battery to long periods of direct sunlight. Heat will shorten your battery life. Optimum operating temperature is below 20 degrees Celsius (68 degrees F.)
Aqua Creek recommends a battery cover be used with solar chargers since the battery is left on the lift at all times.
5. Never drop or bump the battery pack. This may result in loose or damaged internal connections, and may damage the battery terminals.
6. Keep battery terminals clean and free from dirt and corrosion to ensure good contact. The terminals may be cleaned using alcohol and a cotton swab. Clean off any corrosion or discoloration of the battery contacts with a Scotch-Brite™ pad and then apply dielectric grease (supplied with lift) as shown in the figure below.



Clean with alcohol and a cotton swab and apply dielectric grease to terminals

Solar Charger Parts List



ITEM #	QTY	PART #	DESCRIPTION
1	1	PSC-100-10	LOWER WELDMENT, PRO POOL SOLAR CHARGER
2	1	PSC-200-10	UPPER WELDMENT, PRO POOL SOLAR CHARGER
3	1	PSC-300-10	TOP WELDMENT, PRO POOL SOLAR CHARGER
4	1	VSCC2	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	1	222-500	CARRIER, HOUSING, FOR WAGO CONNECTORS
10	5FT	TAPE, MOUNTING DOUBLE SIDED	TAPE, DOUBLE SIDED MOUNTING TAPE, 1" WIDE, 20 LBS
11	1	GROMMET, 5/16 X 1/2	GROMMET, CHARGER, 5/16 ID X 1/2
12	6	BC 4 X 1/2	BOLT, 316 SS, #4-40 X 1/2" FH PHILLIPS
13	12	NN 4	NUT, 316 SS, NYLOCK, #4-40
14	1	BB 1/4 X 1-1/2	BOLT, 316 SS, 1/4-20 X 1 1/2 BHSCS
15	2	BB 1/4 X 2	BOLT, 316 SS, 1/4-20 X 2 BHSCS
16	6	WF 1/4	WASHER, FLAT, 1/4, 316 SS
17	3	NN 1/4	NUT, 316 SS, NYLOCK, 1/4"-20
18	1	SC SHRINK SLEEVE	1/4" ID HEAT SHRINK TUBING X 1" LONG
19	1	P-TPTR12	THREAD PROTECTOR, 1/2" OD X 2" INSIDE HEIGHT
20	1	00918174	LINAK DUMMY PLUG FOR DC PORT
21	1	450 DEGR	SILICON, BLISTER PACKET, 450 DEGREE
22	1	ANTI SIEZE, PACKET, .75	ANTI SIEZE, PACKET, 5 GRAMS

AQUA CREEK PRODUCTS, LLC LIMITED ONE (1) YEAR WARRANTY:
SOLAR CHARGING SYSTEMS
(ITEM #'s F-043SCH, F-044SCH, F-045SCH, F-046SCH, F-047SCH)

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, force majeure, act of nature, 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 by customer, 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 customer. All freight charges are the responsibility of the customer. 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.

This written limited warranty constitutes the final, complete and exclusive statement of warranty terms. No person or organization is authorized to make any other specific or implied warranties or representations on behalf of Aqua Creek.

THE WARRANTIES SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, WHICH ARE HEREBY DISCLAIMED AND EXCLUDED, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE.

THE SOLE AND EXCLUSIVE REMEDIES FOR BREACH OF ANY AND ALL WARRANTIES WITH RESPECT TO THE PRODUCTS SHALL BE LIMITED TO REPAIR OR REPLACEMENT AT AQUA CREEK'S DESIGNATED FACTORY LOCATION, OR DULY APPOINTED DISTRIBUTOR, OR IN PLACE AT AQUA CREEK'S OPTION. IN NO EVENT SHALL AQUA CREEK'S LIABILITY EXCEED THE ENTIRE AMOUNT PAID TO AQUA CREEK BY THE ORIGINAL PURCHASER FOR THE FAILED OR DEFECTIVE PRODUCT.

IN NO EVENT SHALL AQUA CREEK PRODUCTS, LLC BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, SPECIAL, INDIRECT, PUNITIVE OR EXEMPLARY DAMAGES OR LOST PROFITS FROM ANY BREACH OF THIS LIMITED WARRANTY OR OTHERWISE.

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