INSTALLATION INSTRUCTIONS

PRODUCT:

Portable Live Sonar Shuttle

Please read carefully before installing. This instruction sheet is for the Zirkona Outdoors Portable Live Sonar Shuttle. For instructions on features, set-up, and operation of the graph or sonar module, please refer to the manual provided by the OEM Manufacturer.

If you need assistance or have questions, call Gamber-Johnson at 1-800-456-6868

TABLE OF CONTENTS

TOOLS REQUIRED:

- #2 Phillips Screwdriver
- 11/32” Wrench or Rachet
- 5/32” Hex Wrench/Allen Wrench
- 7/16” Wrench or Rachet
- 1/8” Hex Bit/Allen Wrench
- Wire/Terminal Crimper (14 AWG and 10 AWG compatble)
- Pliers


CARRY HANDLE
CABLE HOOK MOUNTING HOLES
LIVE SONAR MODULE (MOUNTED UPSIDE-DOWN ON BACK SIDE)
GIMBAL BRACKET MOUNTING PLATFORM
12VOLT SAE CHARGE PORT
ZIRKONA MOUNTING HOLE FOR PHONE OR CAMERA MOUNTS
MAIN POWER SWITCH
VOLTAGE METER
USB-A AND USB-C INPUTS
FRONT INSTRUMENT PANEL
ACCESSORY/OPTIONAL MOUNTING LOCATION FOR TRANSDUCER

ATTACHING BLACK BOX
(GARMIN® AND LOWRANCE® ONLY)

FIG. 1

TOOLS REQUIRED:

- #2 Phillips Screwdriver
- 11/32” Wrench or Rachet

STEP 1

Locate hardware bag p/n: 7120-1176 for installing sonar module box. (FIG. 1)

- Four (4) #8-32 x 1” Phillips Heads Machine Screws
- Four (4) #8-32 Nylok Nuts

FIG. 2

STEP 2

Locate the four (4) mounting hole locations on the shuttle. (FIG. 2)

- Blue is Garmin®
- Red is Lowrance®

STEP 3

First, insert #8-32” Phillips machine screws through the shuttle towards the graph. Thread on the #8-32 nylok nuts. Align the black box on the screw heads and tighten into place. (FIG. 3)

- Garmin® and Lowrance® Sonar Modules are mounted upside-down in order for the plugs to face-up and not drag on ground.
- Ensure the module is pushed up when hardware is tightened in order to fasten the module to the shuttle.

FIG. 3

ATTACHING CABLE HOOKS FOR TRANSDUCER CABLE

TOOLS REQUIRED:

- 5/32” hex key/allen wrench
- 7/16” wrench or rachet

FIG. 1

STEP 1

Locate hardware bag p/n: 7120-1176 for installing sonar module box. (FIG. 1)

- Four (4) 1/4-20” x 7/8” Socket Button Head Machine Screws
- Four (4) 1/4-20” Nylok Nuts

FIG. 2

STEP 2

Locate the four (4) mounting hole locations on the shuttle for cable hooks; circled in yellow. (FIG. 2)

STEP 3

Step 3: Align cable hooks on the graph side of the shuttle. Insert two (2) 1/4-20” x 7/8” socket button head machine screws towards the graph side from the module side, as pictured. Thread on 1/4-20” nylok nuts and tighten into place. (FIG. 3)

FIG. 3

FIG. 4

STEP 4

Connect the cables from your graph or sonar module as per their methods. (FIG. 4)

STEP 5

Route transducer cable on cable hooks as shown. (FIG. 5)

STEP 6

Place all cables except transducer cable inside battery compartment. Holes in shuttle provide an excellent spot to zip tie (not included) the cables to the shuttle to ensure cables don't put strain on connections.

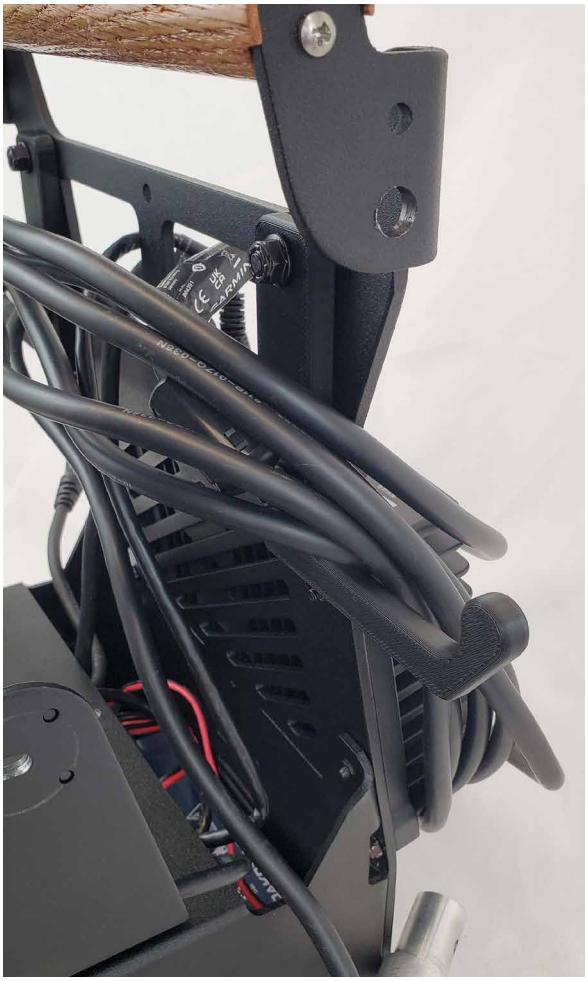


FIG. 5

ATTACHING GIMBAL BRACKET TO SHUTTLE

***OEM GIMBAL MUST BE USED. GIMBAL BRACKET NOT INCLUDED WITH SHUTTLE.**

TOOLS REQUIRED:

- 5/32” hex key/allen wrench
- 7/16” wrench or rachet

STEP 1

Locate hardware bag p/n: 7120-1176 for installing the OEM gimbal bracket. (FIG. 1)

- Four (4) 1/4-20” x 7/8” Socket Button Head Machine Screws
- Four (4) 1/4-20” Nylok Nuts
- Four (4) 1/4” Washers

FIG. 1

STEP 2

With the front instrument panel off the shuttle, locate the four (4) mounting holes.

Insert 1/4-20 x 7/8” button head screws with washer through top side of shuttle.

Inside the battery compartment, thread on the 1/4-20 nylok nuts.

Tighten into place. (FIG. 2)

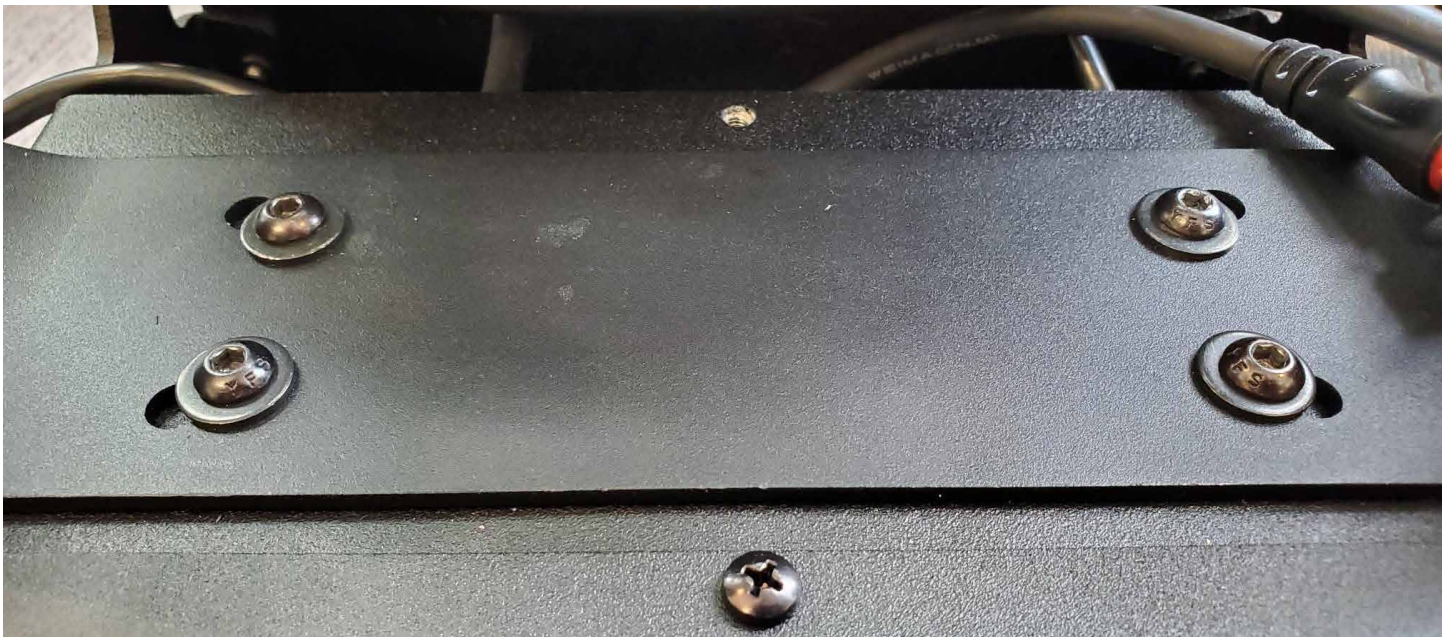
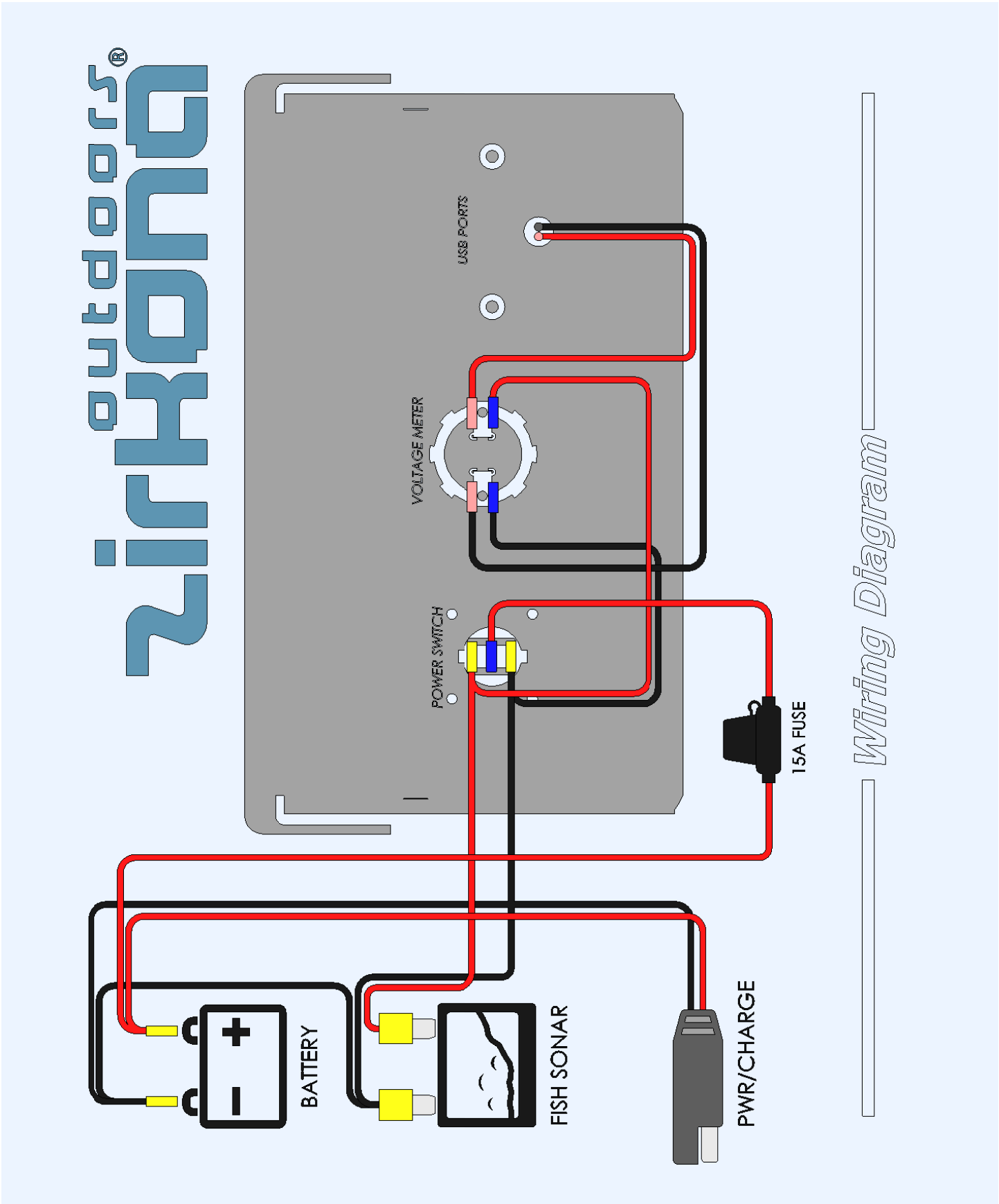


FIG. 2


zirkona outdoors
Wiring Diagram
USB PORTS
VOLTAGE METER
POWER SWITCH
15A FUSE
BATTERY
FISH SONAR
PWR/CHARGE

WIRING THE FRONT INSTRUMENT PANEL

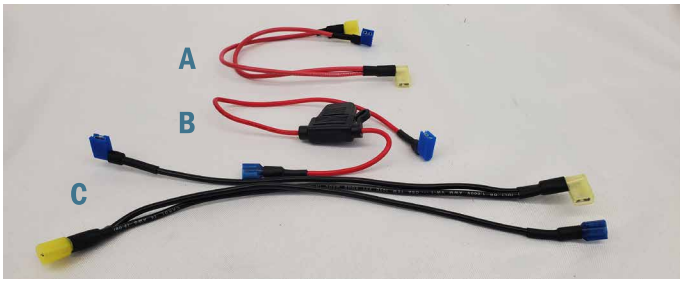
TOOLS REQUIRED:

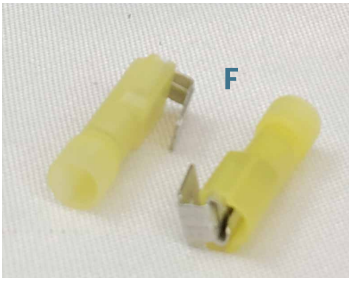
- 11/32” wrench or ratchet
- Wire Crimper (14 AWG and 10 AWG compatible)
- Pliers

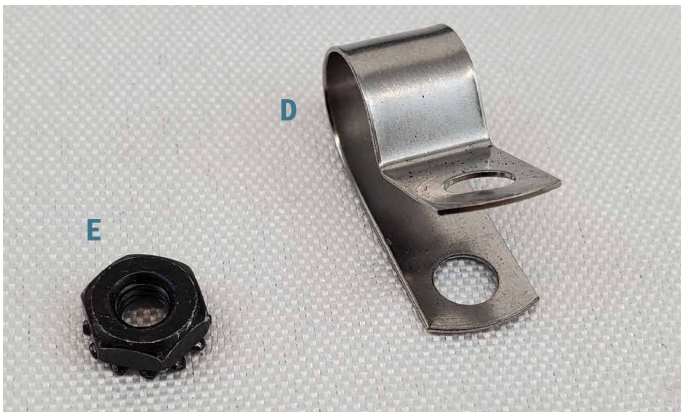
LOCATE THE FOLLOWING COMPONENTS:

- Wire Harness (**A** 1x Red, **B** 1x Black, and **C** 1x Fused) All wires are 14 AWG (gauge) EXCEPT USB Module wires, which have their own connectors
- 1x Cable Clamp **D**
- 1x Cable Clamp Nut **E**
- 2x Piggy Back Terminal Connectors for 10 gauge wire (Yellow) **F**
- 2x Parallel Splitters for Voltage Meter (Gold) **G**
- 1x Instrument Panel with USB’s, power switch, and volt-age meter **H**

NOTE: Colors of connectors may differ from what was received







STEP 1

Locate and attach parallel splitters to voltage meter. The installer may find it better to bend the parallel splitters as shown. (FIG. 1)

FIG. 1

STEP 2

Attach red wire from usb to the (+) side of voltage meter. Attach black wire from usb to the (-). (FIG. 2)

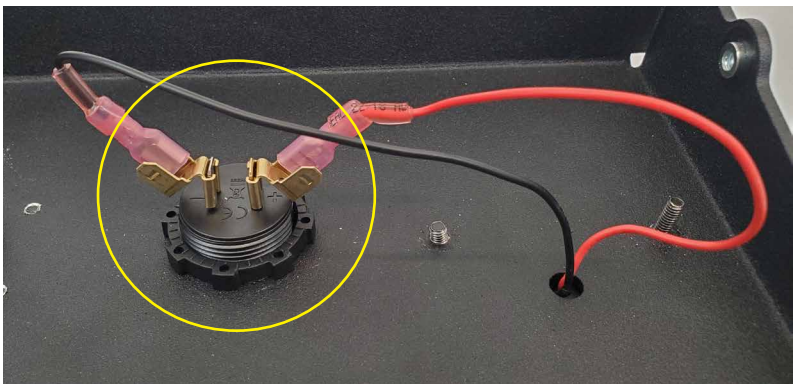


FIG. 2

STEP 3

Locate the black wire from the wire harness bag. Attach the yellow 90°connector to the top terminal on the power switch. (FIG. 3)

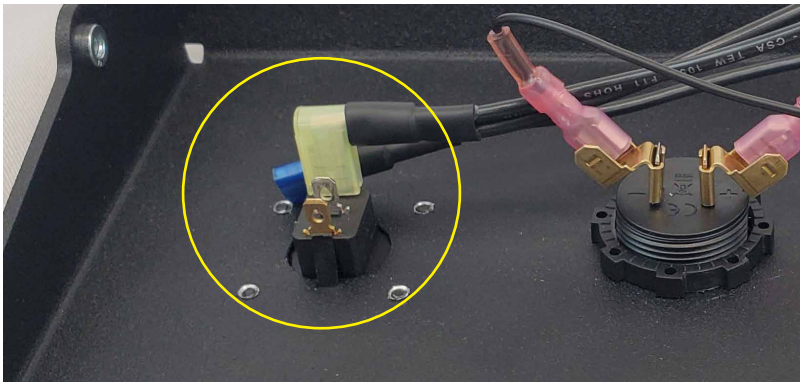


FIG. 3

STEP 4

Locate the blue 90° connector from the black wire and connect to (-) negative of voltage meter. (FIG. 4)

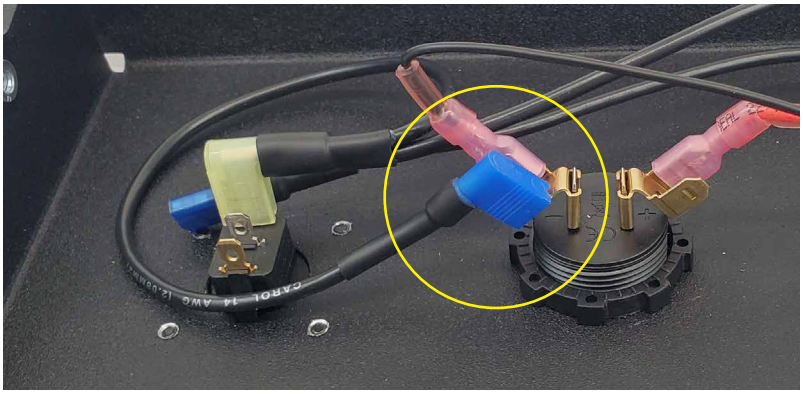


FIG. 4

STEP 5

Locate the yellow 90° connector from the red wire and connect to bottom of power switch. (FIG. 5)

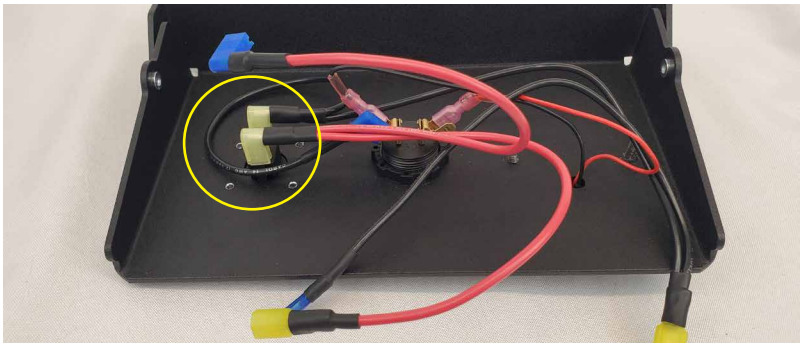


FIG. 5

STEP 6

Locate the blue 90° connector from the red FUSE wire and connect to middle of the power switch. Ensure fuse is connected inside fuse holder. (FIG. 6)

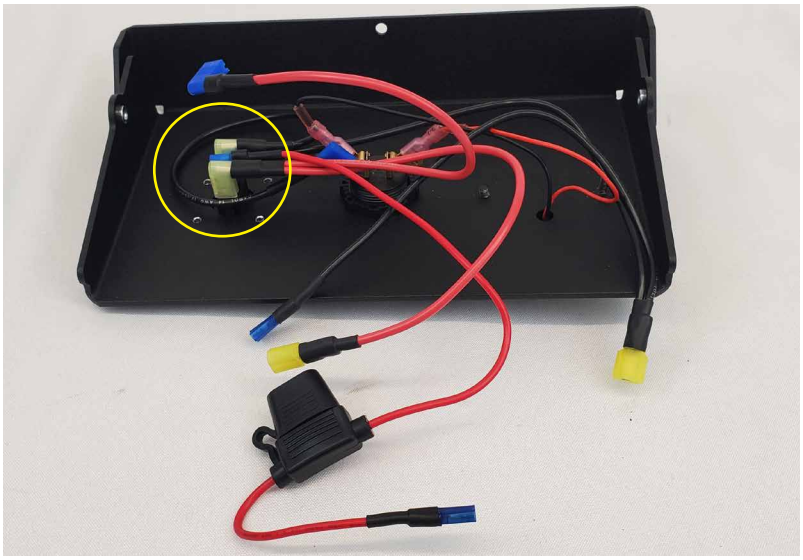


FIG. 6

STEP 7

Locate the blue 90° connector from the red wire and connect to (+) positive side of voltage meter. (FIG. 7)

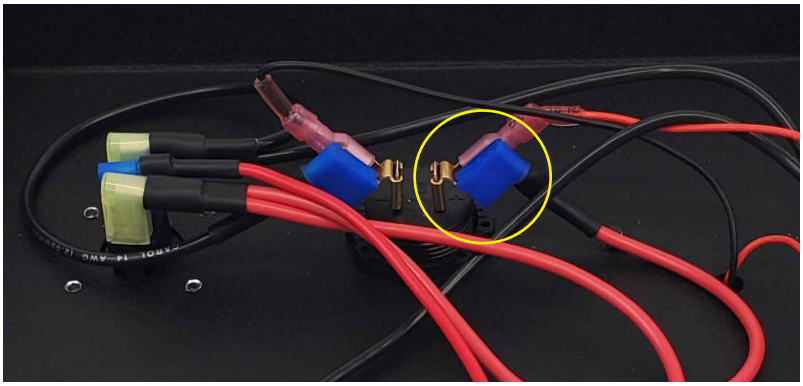


FIG. 7

STEP 8

Locate the cable loop and cable loop nut. (FIG. 8)

FIG. 8

STEP 9

Gather cables and wrap cable loop around cables. Position the cable loop over the longer threaded stud from the USB. Tighten down cable loop nut with 11/32” wrench or ratchet. (FIG. 9)

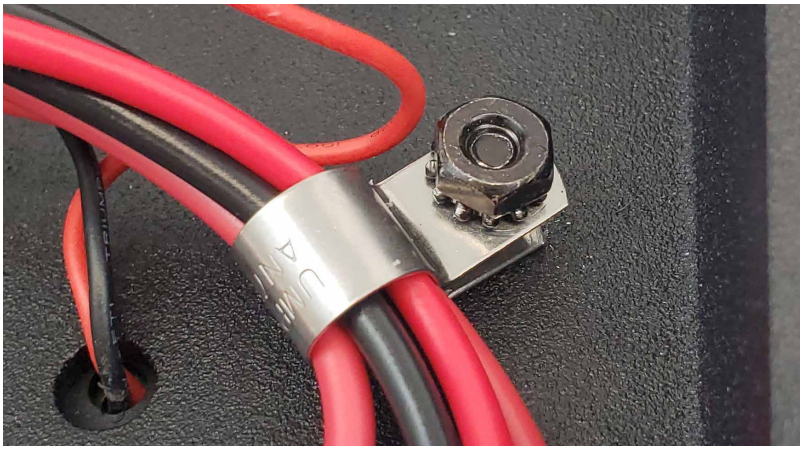
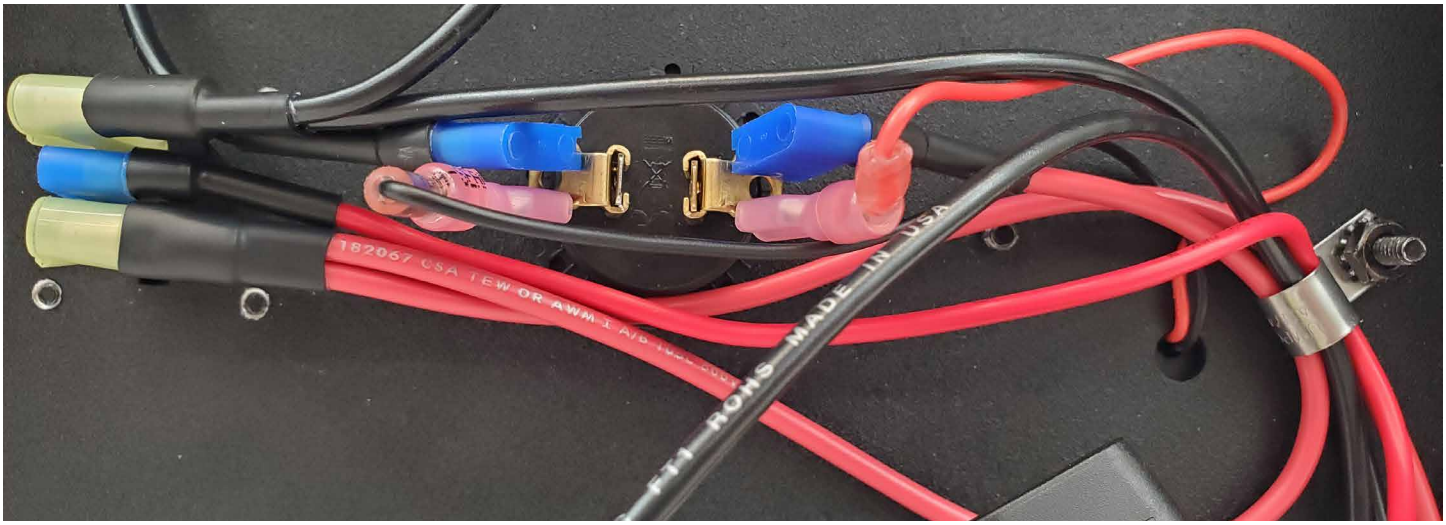


FIG. 9



Wire assembly attached to instrument panel.

CONNECTING FRONT INSTRUMENT PANEL WIRES TO BATTERY

TOOLS REQUIRED:

- Wire Crimper (14 AWG and 10 AWG compatible)
- Pliers

NOTE:

Not all batteries have the same terminals. Our shuttle includes terminal connectors for male spade connectors on batteries. If the battery has different terminals, customer will need to source appropriate connectors.

STEP 1

Place battery in shuttle or place on work table. (FIG. 1)

FIG. 1

STEP 2

Locate and attach piggyback connectors to 12V SAE 10 AWG wires. (Optional: Customer supplies appropriate size heat shrink before connecting piggy-back connectors.) (FIG. 2)

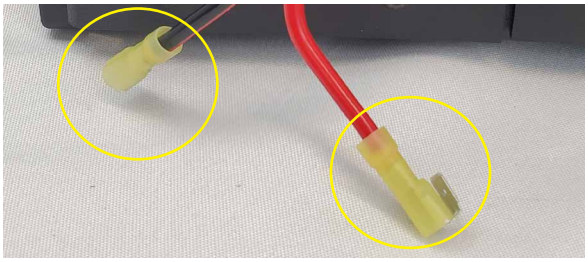


FIG. 2

STEP 3

Locate the red and back blue female connectors and attach to other ter-minal on piggyback terminal. Red (+) goes to Red (+) and Black (-) goes to Black (+). (FIG. 3)

FIG. 3

STEP 4

Starting with the Red (+) wire with the piggyback connector, attach the connector to the male spade on the positive (+) battery terminal. Once firmly attached, repeat the process for the negative (-) side. Locate the red and black wires with blue female connectors and attach to other terminal on piggyback terminal. Red (+) goes to Red (+) and Black (-) goes to Black (-). (FIG. 4)

FIG. 4

CONNECTING FRONT INSTRUMENT PANEL WIRES TO SONAR MODULE

TOOLS OPTIONAL:

- Wire Crimper (14 AWG and 10 AWG compatible)
- Pliers

HUMMINBIRD®:

Customer will need to supply appropriate terminal ends for Humminbird® MegaLIVE cable (PC 11, PC 12, PC 13)

LOWRANCE®:

Customers will only use the red and black from the power cable. The yellow and blue will need to be capped off ensure they don't short out the system. The yellow will not be used as the entire system is ran through one master power switch on the instrument panel.

LOWRANCE®:

Use the female connector leads for connecting to shuttle.

LOOPING IN BATTERY STRAP

***ONCE ALL WIRING AND CONNECTIONS ARE COMPLETED, THE BATTERY CAN BE STRAPPED IN.**

NOTES:

- Ensure wires are tucked out of the way of the path of the strap. This includes the instrument panel wires and cabling for graph and black box, if applicable.
- Battery strap is meant to tighten down over top of battery, not around battery, while the battery mat helps prevent the battery from moving left and right in the compartment.
- Battery Strap is meant to accommodate most batteries being installed in this compartment
- Functionality of strap pictured is the same for horizontal strap. Exception: Horizontal strap CAN NOT loop through front loop.

STEP 1

Locate the battery strap.

STEP 2

With the battery strap in this orientation, start looping the strap through the front loop. (**FIG. 1**).

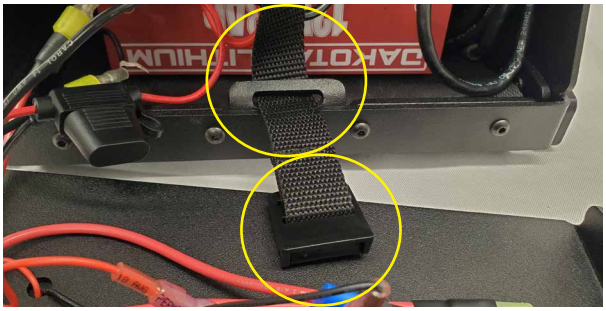


FIG. 1

STEP 3

Position the strap over the top of the battery and select the lowest appropriate slot in the back of the shuttle to feed the strap. (**FIG. 2**).

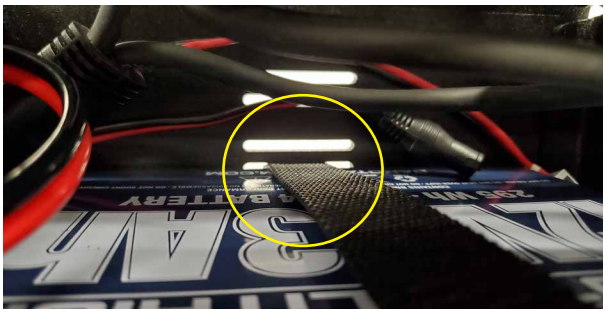


FIG. 2

STEP 4

Loop the strap through the next slot above the previous slot. (**FIG. 3**).

FIG. 3

STEP 5

Feed the strap through the buckle. (**FIG. 4**).

FIG. 4

STEP 6

Pull strap tight, position the buckle on top of battery, if possible. (**FIG. 5**).

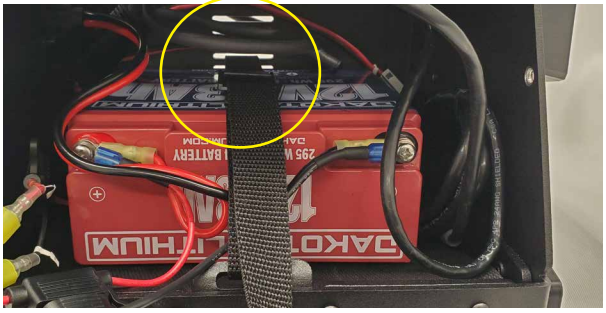


FIG. 5

STEP 7

Push back on buckle while pulling on strap. (**FIG. 6**).

FIG. 6

STEP 8

Flip the lever on the buckle down to lock the strap in. (**FIG. 7**).

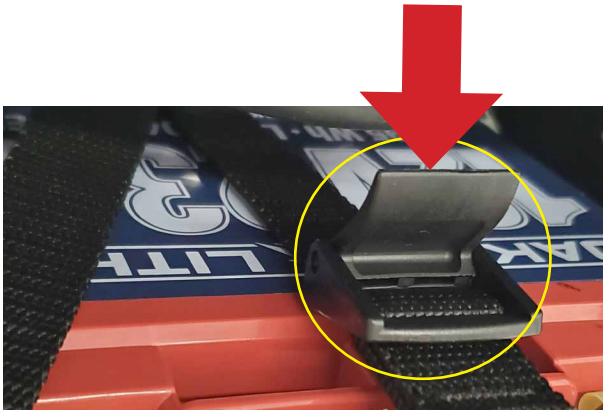


FIG. 7

RE-CONNECTING FRONT INSTRUMENT PANEL TO SHUTTLE

NOTE:

- Once everything is wired up and battery is strapped in, you can proceed with installing the front panel. Remember to have the graph removed from the gimbal bracket to help with installing the front panel.

STEP 1

Place panel into shuttle as shown. Ensure all wires are inside the shuttle and out of the way of the front panel to avoid pinched wires. (**FIG. 1**)

FIG. 1

STEP 2

Line up the holes of the front panel with the pem nuts located on the shuttle. (**FIG. 2**)

FIG. 2

STEP 3

Start threading in the screws without tightening. (**FIG. 3**)

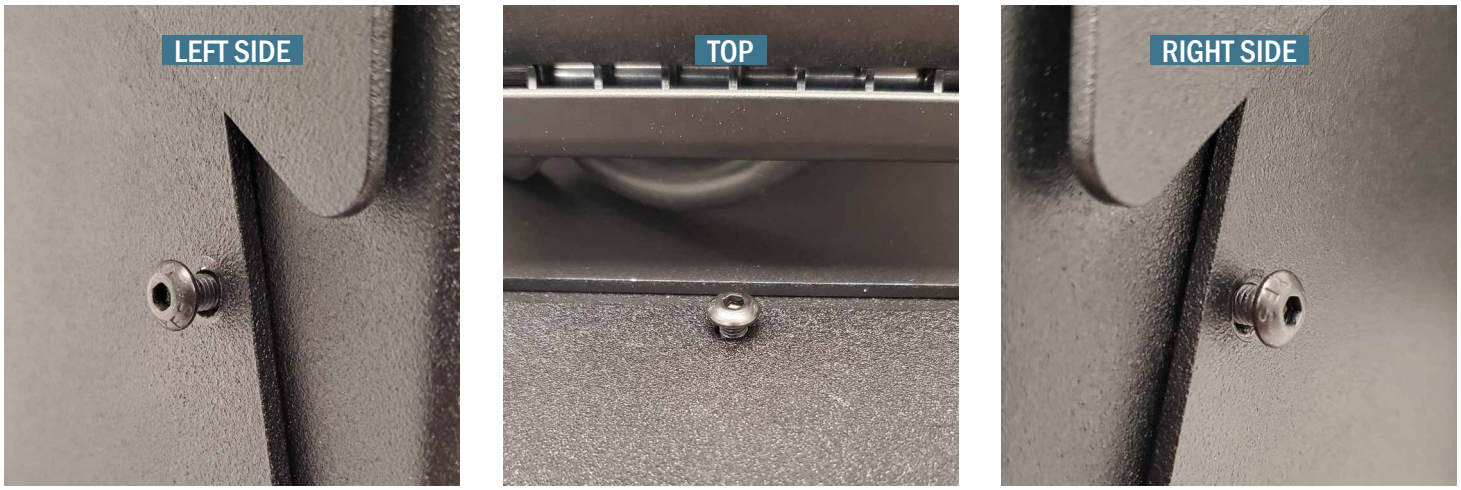


FIG. 3

STEP 4

Once all three (3) screws are started, finish tightening the screws into place. (**FIG. 4**)

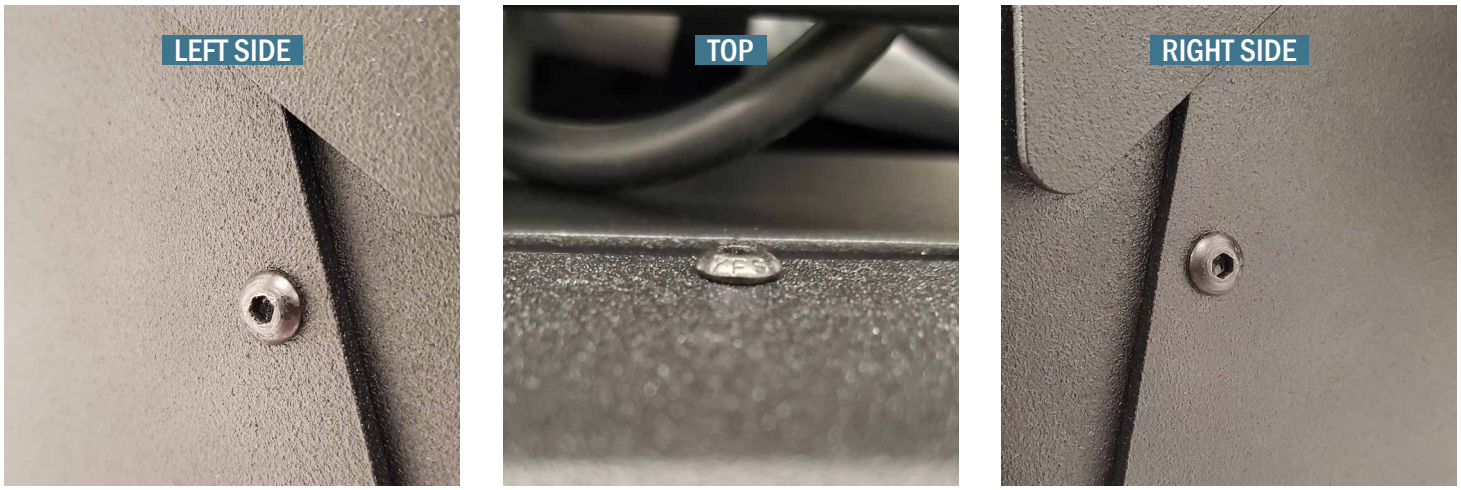


FIG. 4

Front panel is now installed.

TROUBLESHOOTING

ISSUE	SOLUTION
Screen/graph not turning on	• Check power switch • Check wiring to power switch • Check battery charge status • Check fuse, • Check all cables going from battery to black box, to graph • If above solutions don't work, contact your device manufacturer
Only showing voltage/Only showing battery percentage	• Tap (⏻) to toggle between the voltage output and battery remaining percentage. • Check fuse • Check wiring to voltage meter.
No power at USBs	• Check connections to USB's on back side of panel • Ensure battery level is adequate and charge if necessary • Check fuse • Check connections at battery voltage meter on front panel

TECHNICAL SPECIFICATIONS

Weight (Overall, as shipped) = 9 lbs. / 4.08 kg

Dimensions (Overall, as shipped):
12.77" Wide x 18.06" Tall x 9.80" Deep (32.44cm x 45.87cm x 24.89cm)

ACCESSORIES NOT INCLUDED

ZIRKONA GOPRO/ACTION CAMERA ATTACHMENT

Part numbers:
20040: GoPro Attachment
7110-1259: Medium 2down Joiner
20451: 3/8” Hex Base

Hardware Needed:
3/8” - 16 x 1-1/4” Hex Head Bolt, Nylok Nut, and washer

ZIRKONA PHONE CRADLE ATTACHMENT

Part numbers:
7110-1400: Phone Attachment
7110-1259: Medium 2down Joiner
20451: 3/8” Hex Base

Hardware Needed:
3/8” - 16 x 1-1/4” Hex Head Bolt, Nylok Nut, and washer

WANT TO BUILD YOUR OWN? Visit *Amazon.com/Zirkona_Outdoors* to see our full line of modular mounting solutions.

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