



Phone/Device Charger Installation Guide

Thank you for purchasing your V-Links Phone/Device Charger for your golf cart! Although the installation of the charging socket and hardware is quick and easy, it is recommended that it be performed by a qualified technician with wiring and systems experience for the specific make and model of the cart receiving this accessory. Prerequisite understanding includes general knowledge of electrical systems, use of wires and connectors, and proper use of required tools.

Parts List:

- 1 Dual USB Charge Socket
- Socket Securing Nut
- 1 DC Voltage Converter Module with adhesive backing strip, in-line fuse and fuse holder with attached connectors
- 2 T-Tap Connectors
- 1 Ring Terminal

Minimum tools required (Some makes or models may require Additional hand tools):

- 1-1/8 or 1-3/16" Diameter hole saw or Paddle Bit and Electric Drill
- Pliers
- Volt Meter (or continuity tester to check connections along the way)
- Socket Kit/Screw Drivers (depending on location, removal of a body component might be necessary)
- Wrench to Disconnect Battery Cable
- Cable Ties or Small Twist Ties
- Wire Stripper and Crimping Tool (if alternate methods of installation are chosen).

BE CAREFUL AROUND THOSE BATTERIES! DO NOT PLACE TOOLS OR ANY PARTS ON THE BATTERIES. MAKE CERTAIN THAT THE COMPONENTS ARE WIRED WITH THE CORRECT POLARITY (+,-) – THIS IS CRITICAL AS INCORRECT WIRING OF THE COMPONENTS WILL DAMAGE THEM PERMANENTLY.

CAUTION: Before you begin the installation process, make certain that the cart is on a level surface with the parking brake on. Disable the battery bank by disconnecting a primary battery cable. Refer to the owner’s manual for additional details.

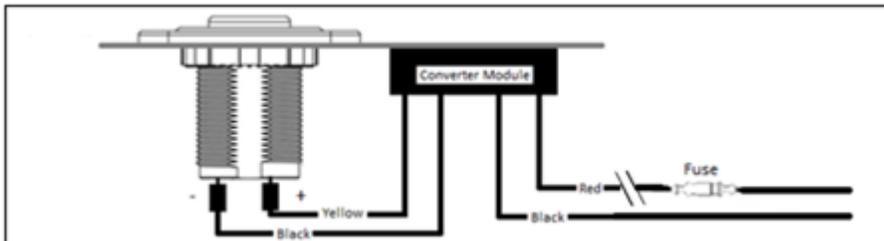
STEP 1: Select a location for mounting the dual USB charging socket. The recommended location is the front of the seat riser, or a dash location.

Locate a suitable location clear from the main charging port, the direction selector, or any other accessories. Inspect the location to ensure the charging socket and accompanying converter module can be mounted clear of other critical components.

If the charger socket and converter module are mounted at another location, additional wire lengths may be required. 18 gauge automotive-grade wire is recommended.

STEP 2: Gently drill/cut a 1-1/8" or 1-3/16" hole through the location selected. Remove any burrs or slivers of plastic around the hole to ensure a flush and professional installation of the charger socket. Insert the socket and situate the USB cover so that it folds over from the top. The rubber ring of the cover is critical as it acts as the water-resistant gasket protecting the USB ports. Spin the plastic nut on the back to secure the socket. Do not over-tighten. The rectangular finishing plate is optional as it provides only an aesthetic function.

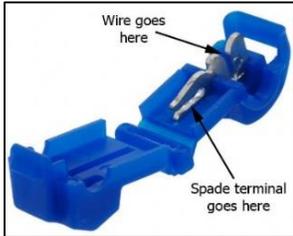
STEP 3: Find an area near the charger socket to mount the converter module. Ensure the location is clean and void of any grease or dirt. Peel back the skin on the double-back tape and firmly adhere the module to a surface near the socket. Mount it so that the yellow and black wires can reach the socket terminals. If the selected location is a greater distance than the wires can accommodate, additional wire lengths may be required. Slide female spade terminals on to the male spade terminals on the charger socket. Attach "black" to the negative (-) side and "yellow" to the positive (+) side.



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STEP 4: Locate the wire from the key switch within the battery compartment that supplies voltage when the key switch is in the “ON” position. See schematic for your cart model and year if necessary. Reconnect the battery bank and use a voltmeter to ensure you have located the correct wire. This is a “hot wire” when the key is turned to the on position. The voltmeter should register your carts voltage, 48, 36, or 12 volts (gas powered) depending on your cart.

Once the wire is located, connect the T-Tap Connector (provided) to the wire by laying in the slot (indicated by “Wire goes here”) below. Close the T-Tap connector and gently depress it with a pliers until it locks shut.

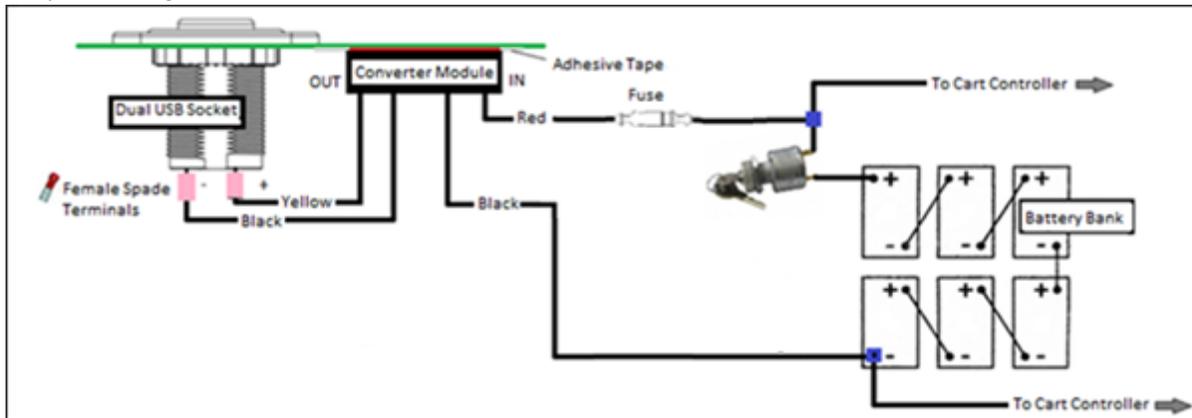


Slide the male spade terminal at the end of the fused (red) wire into the T-Tap Connector (indicated by “Spade terminal goes here”) above AFTER the Connector has been snapped shut.

STEP 5: Locate a wire that connects to the final negative of the battery bank. Splice into this wire with a T-Tap connector, and slide the spade terminal of the negative (black) wire of the input side of the converter into the connector. An alternative method would be to run this wire to the battery bank and connect to the final negative wire of the battery bank with a ring terminal (included). If this process is used, simply cut off the spade terminal, strip the wire, and crimp the ring terminal in place.

Re-connect the main battery cables, and switch the cart out of Towing Mode (if applicable). Coil up the sagging wire lengths and use cable or twist ties to “tidy up” the installation.

STEP 6: Check your work! Turn the key to the “ON” position. Open the protective cover on the dual USB Socket. The LED should be illuminated. If it is not illuminated, repeat the “CAUTION” step in the beginning of this guide, and check all connections. Below is the basic diagram of the completed wiring for reference:



TROUBLESHOOTING: If the USB port is not illuminated and/or providing a 5 volt charge:

- Check the inline fuse by unscrewing the two parts. Pull fuse and check for continuity.
- Make sure the key is in the “ON” position
- Inspect the wires and connectors and ensure everything is secure.
- With a volt meter, ensure that there is 12 volts present on the “OUT” side of the converter module (between the converter module and the dual USB socket).
- T-Tap connector – with a voltmeter check for voltage between the splice and the negative side of the full battery bank. 36 or 48 volts should be present (based on battery condition – voltage based on make/model of cart). 12 volts should be present for a gas powered cart). If the connector has failed replace the connector or cut and splice wires and cover with electrical tape and/or a wire nut.
- Check female disconnects on the USB socket – ensure they are tightly secured. Check to ensure that the polarity is correct. The back of the socket will show the + and the – terminals. Yellow must be connected to + and black to the – side.
- Check main cable connections on the battery bank. Ensure that batteries are charged.
- If problems persist, contact V-Links for technical support.