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## Eurovan Camper Dual Battery Conversion Kit

1993-2003 Eurovan Campers

This kit allows you to run two sealed lead acid batteries or two of our LiFePO4 batteries in the stock house battery location on your Eurovan Camper. These batteries can be used in any oreintation without spilling out battery acid (althoung we do not recommend mounting them completely upsidedown).

#### Tools Needed

- 10mm Socket
- 10mm Wrench (a ratcheting wrench is ideal if you have one)
- Adjustable wrench
- Light cleaner, rubber gloves, eye protection and rags
- Drill
- ¼" Drill Bit

**NOTE:** The factory battery charger in a EVC is not capable of charging our LiFePO4 batteries. Please visit our <u>webpage</u> for more charging information.

DISCLAIMER: This kit has been designed for easy installation. The installation of this kit is not within everyone's ability. Read through these instructions carefully and decide if installing it is for you. If not, please take your vehicle to an automotive electrician. Wiring errors can be troublesome and hazardous.

## Hardware List

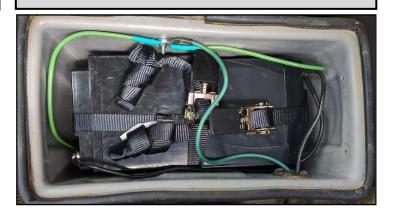


- (2) Endless ratchet strap
- (2) Ground cable
- (1) Power cable
- (3) Washers
- (1) M6x25mm Bolt
- (1) M6 Nut

#### Not Included:

- (2) Batteries of your choosing
- (1) Electrical Tape

## Completed Install Photo



#### REMOVE THE OLD HOUSE BATTERY:

- 1) Using a 10mm wrench or socket, disconnect the negative terminal of the starting battery (the one under the hood). Secure the cable away from the battery.
- 2) Remove the ground cable on the house battery (located in the rear passenger wheel well). This will be a green cable on the negative (-) end of the battery. Remove the black cable from the positive (+) end of the battery. Secure these cables so they are not in the way.
- 3) Unstrap and remove the old battery. Caution: Use proper lifting technique to avoid injury, these batteries can weigh over 50lbs. Take your old battery to a local auto parts store or scrap yard to turn an old battery into beer money.





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#### INSTALL THE NEW BATTERIES:

- 1) At this point we recommend giving the battery box a quick clean. Equip some eye protection and rubber gloves to avoid skin contact with corrosive substances. Be sure to clean around the brackets as these are particularly susceptible to corrosion.
- 2) Lay the first strap from the front to the back of the van. Orient the strap so that the ratchet handle will be accessible on top of the battery. Lay the second strap from the passenger to the driver side of the van using the same strap orientation as described above. Keep the strap flat and thread it through the factory tiedowns as shown in the photo:

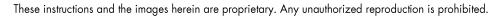


3) Tape one end of the ground cable to insulate it. Attach the ground cables to the negative terminals of the batteries. Orient each cable so that it runs towards the positive terminal on the battery as shown below:





- 4) Drill a hole for the ground pin on the driver side of the battery box approximately in line with the indentation location as shown above.
- Install the first battery with both terminals facing the front of the van and the negative terminal of the battery towards the bottom of the battery box. Install the next battery with the terminals facing the rear of the van and the negative terminal closest the bottom of the battery box.
- 6) Connect the black, factory battery cable and the supplied black cable to the positive terminal of the front battery as pictured:



# GOWESTY

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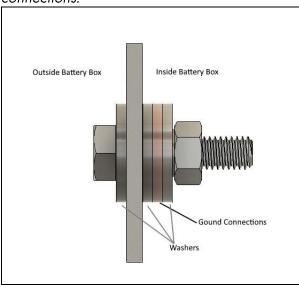
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7) Connect the other end of the supplied black cable to the positive terminal on the rearmost battery.

**Note**: this is a good place to install an aftermarket solar controller or inverter positive connections.

- 8) Run the straps under the cables so that they contact the battery directly and tighten them.
- 9) Install the supplied M6 ground bolt from the outside of the battery box using the included washers as shown below. Connect the green factory ground cable and both supplied ground cables on the ground bolt and tighten them.

**Note:** this is a good place to install aftermarket solar controller or inverter negative connections.



10) Reconnect the starter battery ground.

You're Done! Catch some coulombs and enjoy your new batteries.