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## GW-V-USB-MAP-OUT



### USB Map Light Replacement Kit for Vanagon

Bring your Vanagon into the 21<sup>st</sup> century! This clever snap-in addition to your dashboard replaces the relatively-useless map light with a couple of new-fangled USB charging ports. One port nestles into the dash, and the other hides away in the glove box for discreet charging.

#### Tools Needed

- Phillips Screwdriver
- Pliers
- File (in some cases)
- Hairdryer or similar heating element

**DISCLAIMER:** *This kit has been designed for easy installation. However, it does involve alteration of a factory electronic circuit. 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 	Parts List 
(2) M3 x 10mm screws	(1) Nylon face plate (1) 12V USB converter (1) 1" of small heat shrink tube (1) 1" of large heat shrink tube

**Note:** The first step before working on the electrical system of your vehicle is to **DISCONNECT THE BATTERY**. If your van has more than one battery, **DISCONNECT ALL OF THEM** before proceeding. Remember to reconnect them once you've finished!

**1)** Fasten the nylon face plate to one of the USB ports with the included screws.



**2)** Locate the existing map light, and carefully remove it from the slot in the dashboard. It should come out easily by hand.

**3)** Unplug the wires from the back of the map light. Hold on to them so that they do not fall behind the dashboard. Fit the small heat shrink tube over the smaller male terminal, and the large heat shrink tube over the larger male terminal. Do not heat it until step 5.

**4)** Plug the male wire connectors from the USB converter into the female connectors that the map light was using. Ensure that the red wires are matched up. (Heat shrink is left out of this picture for clarity.)





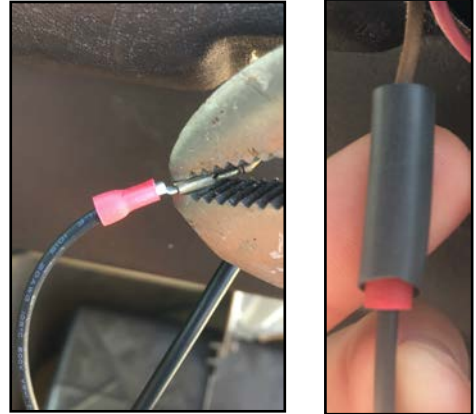
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- 5)** If either connection feels loose, gently crimp the female connector with pliers until it holds tight. Use a hairdryer or other safe heating element to heat activate the heat-shrink tube so that it completely covers the metal of each terminal. The picture (right) shows how the terminals should look before heating.



- 6)** Insert the USB converter box and the USB port that is not attached to the face plate through the slot in the dashboard. Everything except for the face plate and attached USB port should now be behind the dashboard.



- 7)** Insert one wing of the faceplate through the slot in the dashboard.



- 8)** Bend the face plate to fit the wing on the opposite side into the slot. It may take some force!





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- 9)** Once the wings of the face plate are inside the slot, give the face plate a few firm taps with the handle of your screwdriver so that it sits flush against the dashboard.
- Note: Due to factory variations in the size of the dashboard slot, the face plate may not sit perfectly flush with the dashboard. In such cases, we recommend filing down the inside vertical edges of the dashboard slot a millimeter or less—just enough to ease the installation.



- 10)** Retrieve the unattached USB port and place it in the glove box.

**That's It! Cheers to a job well done!**