



Harley-Davidson V-Rod Rear LED Turn Signal Array Installation Instructions

We thank you for purchasing the Custom Dynamics® V-Rod Rear LED Turn Signal Array! Our products utilize the latest technology and high quality components to ensure you the most reliable service. We offer one of the best warranty programs in the industry and we back our products with excellent customer support, if you have questions before or during installation of this product please call Custom Dynamics® at 1(800) 382-1388.

Package Contents:

- V-Rod Rear LED Turn Signal Array
- Instructions

Suggested Tools:

Metric socket and/or combination wrenches, wire cutter/stripper, electrical tape, heat gun/, Loc-tite (medium strength)

Installation

Step 1

1. Lift up driver's seat and remove rear/passenger seat.
2. Disconnect the wiring harness from the bike's computer and remove it and the mounting bracket.
3. Lift the outer fender/skin and disconnect the rear turn signal/taillight/plate illumination harness connectors.
4. Set the outer fender/skin aside on a flat and smooth surface to protect the fender's finish.
5. Remove the rear tail assembly (AKA, "Dog's Ass"); THIS PART IS NO LONGER NEEDED! Set aside the four nuts/bolts, they're reused in mounting your new turn signal assembly.



IMPORTANT



Please read all information below before Installation

NOTE: Please read these instructions, in their entirety, BEFORE attempting installation. If you don't possess the proper tools, have enough time or are otherwise uncomfortable with installing it yourself, please get with you local dealer or mechanic who can help you. The installation time noted is for installing the rear turn signal assembly only, on a stock bike. Please note that additional time may be needed for bikes with accessories included but not limited to luggage racks, saddlebags, etc. You may also want to consider the following installations/modifications (not included, sold separately) while installing this rear turn signal assembly to save time...

Rear license plate adapter Kit
(V180P & V240P)

Load equalizer

Saddlebag mounting tab removal

Important: Installation of this rear turn signal assembly REQUIRES license plate relocation.

Important: Prior to installation it is recommended that you perform a pre-installation function check. To do so, use the bike's battery or another appropriate 12 volt power source. hold the positive red or yellow lead from the turn signal to the positive red lead of the battery and then place the negative black lead from the turn signal to the negative black lead of the battery. Do one side at a time and ensure that both sides light prior to installation.

Installation Instructions - Page 2

Step 2

- **For installation of our V-Rod 180mm rear turn signal:**

Place the turn signal assembly in place over the inner fender and line up the two mounting holes on each side with the corresponding holes in the inner fender. Re-using the mounting hardware from the stock tail assembly, place a small amount of Loc-Tite to the bolt and slowly tighten the stock nuts snugly in place. Bolt the outer fender/skin in place and check to make sure that the edge of the turn signal assembly lines up perfectly with the lip of the fender and readjust if necessary. **(CAUTION!!! Over-tightening the mounting bolts may damage your turn signal).**

- **For installation of our V-Rod 240mm rear turn signal:**

Install the enclosed u-shaped support bracket to the inside of the V-Rod rear fender frame tabs/arms. Please note that this kit includes 4 stainless steel button head bolts, which are used to attach the inner fender support bracket to the bikes rear fender frame tabs. Do not re-use the stock hardware. Install the button head screws from the inside of the support bracket facing out...**don't install the lock nuts until you have your MBW rear turn signal installed (see below).**

Install your MBW rear LED turn signal, with the ends of the turn signal placed on the outside of the V-Rod rear fender frame tabs/arms. The bikes frame tabs/arms should be sandwiched between the MBW u-shaped support bracket and the ends of the MBW rear LED turn signal. Install lock nuts to button head screws. **Be careful not to overtighten the hardware!** The nylock nuts will keep them firmly in place. If you over tighten the hardware you could permanently damage/crack the LED turn signal assembly, which is not serviceable and could require replacement.

Step 3

When wiring your rear turn signal assembly, you may choose to (1) remove the stock wiring harness connectors and hard wire it directly to the factory wiring harness or (2) remove the stock wiring harness connectors from the stock turn signals, wire them to the ends of the rear turn signal assembly and then plug it into the stock wire connectors. Please note that no soldering is necessary! Simply remove approximately ½ inch of wiring sheathing from each wire lead, slide the self adhesive shrink tube over one of the wires, twist the wires together, and place the shrink tube in place over the joined wires. Heat gently with a heat gun or hair dryer until it shrinks in place and the adhesive joins the two wire leads together. Allow it to cool before handling so the adhesive can solidify. Please note that if any wiring is exposed after the shrink wrap is in place it must be covered by a suitable material (electrical tape) to prevent it from grounding out and potentially causing damage to the turn signals and/or the bike's electrical system. Wire as follows:

Array right rear RED (or yellow) to stock wire BROWN

Array right rear BLACK to stock wire BLACK

Array left rear RED (or yellow) to stock wire PURPLE

Array left rear BLACK to stock wire BLACK

Secure wires appropriately to topside of the inner fender using electrical tape. Reinstall the outer fender/skin.

PRIOR TO RIDING YOUR BIKE, please test for the proper function of your turn signals and all lighting, headlight, tail light, brake light, etc.

Installation Instructions - Page 2

Questions? Call us at: 1 (800) 382-1388 M-TH 8:30AM-5:30PM / FR 9:30AM-5:30PM EST