



Custom Dynamics® 23 CVO LED Latch Lightz™ Installation Instructions

We thank you for purchasing the Custom Dynamics® 23 CVO LED Latch Lightz™. 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.

Part Numbers: CD-LATCH-23-R CD-LATCH-23-S

Package Contents:

- 23 CVO LED Latch Lightz™ (2)
- 23 CVO Bag Light MPR Harness (1)
- Quick Disconnect Harness (2)
- 4" Cable Ties (10)
- Cable Tie Holders (8)
- Foam Strips (2)
- Rubber Grommets (2)
- Drilling Template (1)
- JAE Connectors (2)

Fits: 2023-2024 Harley Davidson® CVO Street Glide (FLHXSE), CVO Road Glide (FLTRXSE), 2024 Street Glide (FLHX), Road Glide (FLTRX), and CVO Road Glide ST (FLTRXSTSE).



ATTENTION

Please read all information below before installation

Warning: Disconnect negative battery cable from battery; refer to owner's manual. Failure to do so may result in electrical shock, injury, or fire. Secure negative battery cable away from positive side of battery and all other positive voltage sources on vehicle.

Safety First: Always wear appropriate safety gear including safety glasses when performing any electrical work. It is highly recommended that safety glasses be worn throughout this installation process. Be sure vehicle is on level surface, secure and cool.

Important: This product is designed and intended for use as auxiliary lighting only. It is NOT intended to replace any original equipment lighting installed on the vehicle and should not be used for that purpose. This product must be wired so that it does not interfere with any original equipment lighting.

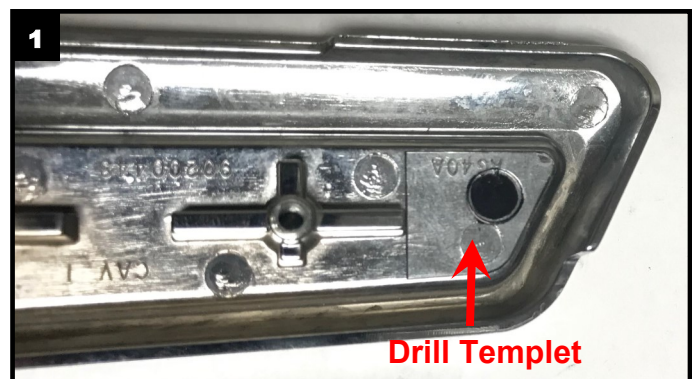
Important: Ambient install temperature must be 60 degrees F or higher. Allow 24 hours for tape to cure before washing or prolonged use of vehicle.

Note: The 23 CVO Bag Light MPR Harness must be plugged into the output (behind) brake strobe modules.

Note: The 23 CVO Bag light MPR Harness must be plugged into the input (in front) of any run/brake/turn module.

Installation:

1. Remove seat and disconnect negative battery cable from the battery.
2. Locate and unplug the lighting connector to the rear fender.
3. Install 23 CVO Bag Light MPR Harness, in-line, into the rear lighting harness and into the motorcycles main wiring harness.
4. Open saddlebag lid and remove any personal items from the saddlebag.
5. With the saddlebag open, disconnect the check strap from the lid of the saddlebag. Save the hardware for reassembly. The saddlebag lid will need to remain fully open to the outside of the saddlebag. Take protective measures so the saddlebag and/or lid are not damaged during the rest of the installation.
6. Remove the hinge cover from the hinge and locking mechanism.
7. With the hinge cover laying face down on a flat surface, place the hole templet on the back of the hinge cover and mark the hole location. Shown in **Figure 1**.
8. Carefully drill a 1/4" hole where you marked it in the previous step. Do not drill all the way through the reflector, you only want to drill through the hinge cover.
9. Use a small screwdriver and push the reflector out from the back side of the hinge cover where you drilled the hole. Shown in **Figure 2**.
10. With the reflector removed, enlarge the hole you drilled in step 8 to 3/8". Clean any debris and adhesive from the area where the reflector was removed.
11. Clean area with denatured alcohol, let dry 1-2 minutes.
12. Route wire from 23 CVO Latch Lightz™ through the hole you drilled in the hinge cover. Remove the protective red film from the back of the 23 CVO Latch Lightz™. Align the Latch Lightz™ in the reflector area and press into place. **Note: Do not apply too much pressure in the center of the 23 CVO Latch Lightz™. This can cause the lens to crack and will not be covered under warranty.**



Questions? Email: info@CustomDynamics.com or Call us at: 1 (800) 382-1388 M-TH 8:30AM-5:30PM / FR 9:30AM-5:30PM EST

Installation Instructions - Page 2

Installation Continued:

13. Reinstall the hinge cover on the saddlebag hinge.
14. Install the provided foam strip on the top outside lip of the saddlebag as shown in **Figure 3**.
15. Select location for the cable tie holders and clean with denatured alcohol, let dry. Remove paper backing on cable tie holders and press into place. Route wire from 23 CVO Latch Lightz™ over the foam strip and around to the front of the saddlebag towards the locking latch. Secure the wire to the inside of the saddlebag with provided cable ties to the cable tie holders to prevent wires from being cut, frayed, or pinched. Shown in **Figure 4**.
16. Remove saddlebags from the motorcycle. Place the saddlebags in a safe place to prevent damage.
17. Using a grease pencil, mark desired drill point for the Latch Lightz™ wire to exit the saddlebag. It is recommended the drill hole is located approximately 1" below the saddlebag latch as shown in **Figure 5**. Apply masking tape to the outside of the saddlebag at the marked drill point.
18. Using a 9/16 drill bit, drill a hole through the marked drill hole on each saddlebag. Drill from the outside of the saddlebag to the inside then remove masking tape. It is recommended to start with a smaller drill bit and work up to a 9/16 drill bit.
19. Install the provided rubber grommet into the hole you drilled in the previous step.
20. Route wire from each 23 CVO Latch Lightz™ through the rubber grommets and out the backside of the saddlebag.
21. Install the provided JAE connectors onto the pre-pinned wires from each 23 CVO Latch Lightz™ by pushing the pins into the connector ports shown in **Figure 6 & 7** (locking tab oriented at top of JAE connector). **Scan QR Code below for specific instructions on how to pin a JAE Connector.**

Dual Color Run/Brake/Turn Function:

- Port 1 = Red
- Port 2 = Yellow
- Port 3 = Black [-]
- Port 4 = Brown or Violet

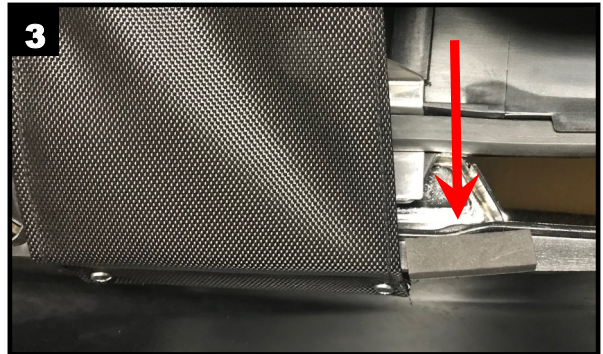
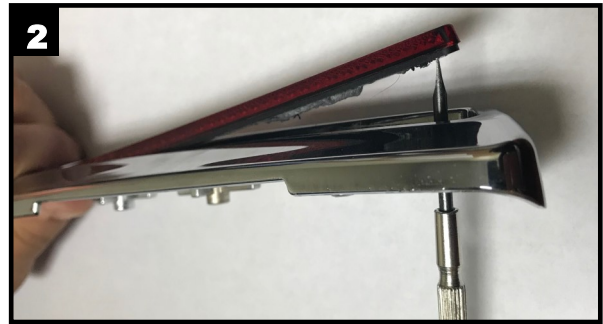


Red Dual Intensity Run/Brake Function:

- Port 1 = Open
- Port 2 = Yellow
- Port 3 = Black [-]
- Port 4 = Red

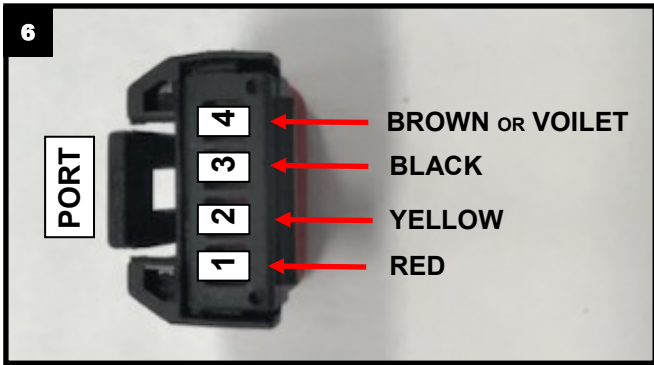
Note: Brown and Violet not used

22. Pins should snap in place and not pull back out of connector when installed correctly.
23. Reinstall saddlebags and plug in the male JAE connectors from each 23 CVO Latch Lightz™ to the female JAE connectors (black) of the quick disconnect harness.
24. Plug the quick disconnect harness into the 23 CVO Bag Light MPR Harness. Violet wire is left side, brown wire is right side.
25. Secure wires under the seat with cable ties to prevent wires from being cut, frayed, or pinched.
26. Reconnect battery negative cable and reinstall motorcycle seat and test operation of CVO Latch Lightz™ and rear lights. **Note: If you're experiencing a rapid flash on your turn signal dash indicator, you may need to sync the BCM (Body Control Module) and clear the trouble codes. To sync the BCM, perform the following steps: 1) Turn ignition on, but do not start the motorcycle. 2) Turn on 4 way hazards by pressing the hazard button on the controls. Count 10 flashes and deactivate. 3) Turn on 4 way hazards for another 10 flashes and deactivate. 4) Clear Diagnostic Trouble Codes (DTC's). 5) Turn ignition OFF then back ON. Turn on 4 way hazards. 6) Confirm if there are any Diagnostic Trouble Codes (DTC's). After performing the steps above, turn the ignition switch to the ON position and test for proper turn signal operation. The dash turn signal indicators should no longer be rapid flashing.**

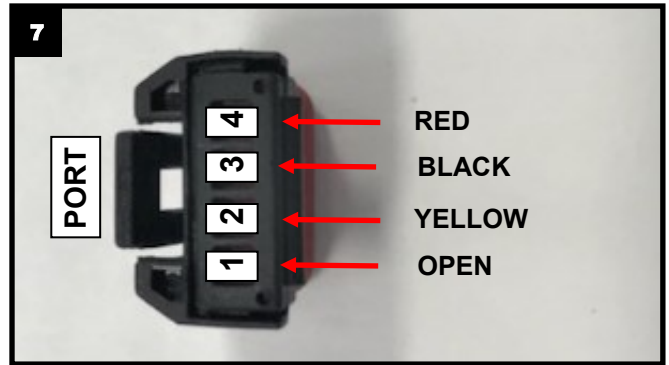


Installation Instructions - Page 3

Dual Color Run/Brake/Turn Function



Red Dual Intensity Run/Brake Function



Package Contents



23 CVO Bag Light MPR Harness



JAE Connectors



Drilling Template



Quick Disconnect Harness



23 CVO Latch Lightz



Cable Ties



LED Latch Lightz

Cable Tie Holders



Rubber Grommets



Foam Strips



Quick Disconnect Harness



23 CVO Latch Lightz