Custom Dynamics® Dynamic Strips Turn Signals
Installation Instructions

We thank you for purchasing the Custom Dynamics® Dynamic Strips Turn Signals. 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-DS-ST-B
CD-DS-ST-C
CD-DS-ST-CC

Package Contents:
- Dynamic Strips Turn Signals (pair)
- ST Harness L/R (1)
- 5/16”-24 X 3/4” Screws (4)

Fitment: Plug and Play fitment for Harley-Davidson Softail Fatboy, Deluxe, Heritage & Slim

ATTENTION

Please read all Information below before Installation

Warning: Disconnect negative battery cable from battery; refer to owner’s manual. Failure do to 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.

Note: The location of the factory harness plug may vary from model to model and year to year. It will be located under the gas tank on either the left or the right side of the frame support. Consult model year owners manual to determine where factory plug is located.

Note: Installation of this product requires partial removal of the gas tank. See owners manual or detailed service manual for instructions on this procedure. If you are not comfortable performing this task yourself, have this product installed by a qualified Harley-Davidson mechanic or dealer.

Questions? Call us at: 1 (800) 382-1388  M-TH 8:30AM-5:30PM / FR 9:30AM-5:30PM EST
3 Identify the LEFT side ST-HARNESS connections labeled with a sticker marked "L", they need to be routed over to the left side of the bike. There is a small hole at the base of the frame that the harness will run through. Pull the rubber cover back and insert each red connector one at a time through the hole, be sure to pull any slack available from the other side. You may also remove the label.

4 The wires exiting the ST-HARNESS are paired with shrink tube coverings. Take the Yellow and black paired wires and twist them together as shown in the photo. Pair the White and black wires in the same manner. Repeat for the Right side connections on the ST-HARNESS.

5 Push the main part of the ST-HARNESS in behind the rubber frame cover, leaving the output side of the harness visible from the outside.

6 Route the ST-HARNESS output wires in behind the brake and clutch lines on the frame to ensure they won’t interfere with them. Re-install the gas tank to the frame by following the instructions in the detailed manufacturer service manual. The Harness part of the installation is complete, we now have our connections for the Dynamic Strips.
Take steps to protect the headlamp before working in this area. We have covered ours with a soft microfiber cloth.

There are 5 components that make up the cover: the front plate, side rails left/right and rear plates left/right. Remove the 3 screws (per side) that secure the fork cover assemblies. Note the screw locations in the photos A & B. The front plate in photo A will remain fixed on the bike, while the rear plates L/R highlighted in photo B will be removed. Note that only the top screw in the rear plate needs to be removed. Take care with these parts as they are painted and can chip or scratch easily. Stage removed pieces so they can be drilled.

Using a 1/4" drill bit, drill the side rails using the punch mark made in step 8. Repeat for the other side.

Next, mount side rails back in place and use as a reference to mark and punch the left and right rear covers. Use a center punch to mark the location before drilling. Remove both side rails and rear covers, then drill each rear cover.

Remount the left and right rear covers back in place and use as a reference to mark and punch each side of the front cover. Use a center punch to mark the location before drilling. Do not Drill the front cover yet, there are special instructions on the next page.
Note that there is a gap between the front plate and the fork. Using the side rail, turn it over so that the back side is facing outward (the side you don’t see when installed), then insert it in behind the front cover at the drill site. This will protect the fork from being punctured by the drill bit. Drill the holes with the same 1⁄4” drill bit.

Now that the drilling is complete, we must make sure that there are no sharp rough edges on all parts of the cover that could cut the wires from the Dynamic Strips. Using a de-burring tool like the one pictured, or a small circular metal file, ream the holes to remove any debris.

Pair the right side strip with the right side rail, insert the wire through the rail. Make sure that the rail is oriented with the curve facing outward (as if mounted on the bike) toward the strip. Remove the red backing from the 3M tape, then align the screw holes by line of sight. Once properly aligned, press into place. Repeat for the other side.
Install the rear cover back to the bike. Insert the wires from the Dynamic Strip into the holes in the covers. Pull wire slack though the other side. Repeat this for the other side. Route the wires to the ST-HARNESS connectors.

Using the included mounting screws, secure the Dynamic Strip to the bike. Keep an eye on the strips as they are tightened, over torquing can cause the them to bow. Do not over tighten, see detailed service manual for torque specs. Repeat for the other side.
Use the wiring diagram for connecting the Dynamic Strips wires to the ST-HARNESS. You can wrap the red connectors with electrical tape or they may be covered with heat shrink tubing, though neither is mandatory.

Note: The secondary connector on the ST-Harness is a pass-through for the wiring if needed. It is typically not used in this application.

**Posi-Lock™ Connectors**

**EASY AS ① ② ③**

① Strip wire 1/2”

② Insert

③ Hand tighten

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Test function of the Dynamic Strips. In running mode, the white LEDs will be on. Test the left turn signal. The white LEDs will turn off and begin flashing in amber LEDs. Disable left turn and the Amber LEDs will turn off and engage the White LEDs. Perform this with the Right Turn Signals as well.

Note: This is a very important step. Do not skip.

Grab both sets of wires with the closed end of your fingers and push them into the back of the fork cover as shown in the photo. This should give about 5-6 inches of slack in the wires to allow the handlebars to turn freely. If you desire, tie wraps may be used to keep the wires in place.