



## Custom Dynamics® LED Halo Headlight Trim Ring Installation Instructions

We thank you for purchasing the Custom Dynamics® LED Halo Headlight Trim Ring. 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 Number: CDTB-7TR-3B, CDTB-7TR-3C**

### Package Contents:

- LED Halo Headlight Trim Ring (1)
- ST-HARNESS (1)

\*Note: Black version will have 8/32 X 1 Screw

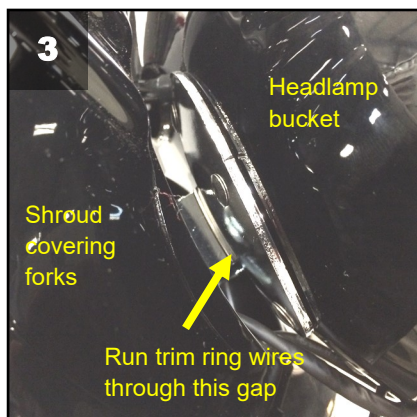
**Fits:** All 1993-2017 Softail® models with 7" Headlamp Bucket  
(DOES NOT FIT Freewheeler® or 2018 Softails®)



Please read all information below before installation

### Installation

1. Carefully remove all components from the packaging. Take care removing the harness as to not damage the wiring or pull any wires out of the connectors. Unravel the wire bundles on the trim ring. Keep in a safe place until ready to install.
2. Consult owners manual for replacing headlamp before beginning. Remove the stock headlamp trim ring from the bucket by removing the screw from the clip at the bottom. Store stock trim ring in a safe place for re-installation later if desired.
3. Route the trim ring wiring through the gap behind the bucket so that it passes behind the shroud and over to the frame. Do not secure yet. See reference photo below.



**Important:** 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.

**Safety First:** Make sure the bike is parked on a level surface and bike's mechanical components are cool to the touch. To prevent electrical shock, disconnect the negative battery terminal from the battery before beginning installation.

**Installation 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 to determine which side the trim ring wires will route to.

**Note:** If you purchased the chrome version of this product, keep the stock clip screw for re-installation later. If you purchased black version, use the black 8/32 screw that comes with, the stock screw will not be used.

**Note:** This product is designed and intended for use as auxiliary lighting on motorcycles only. This product is NOT intended to replace any original equipment lighting installed on the motorcycle and should not be used for that purpose. This product must be wired such that it does not interfere with any original equipment lighting.

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

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4. Prepare to mount the trim ring onto the bucket.

**Note:** The wire cutouts on the bottom of the unit next to the clip as shown in the diagram right. Route the wires into wire cut outs.

5. Mount the trim ring onto the bucket. See photo right. Make sure the clip is aligned to the lower right as shown in the "A" diagram right. Press on the trim ring and turn clockwise until the unit is flush against the bucket and the clip is aligned with the screw hole at the bottom as shown in the "B" diagram right.

6. Install the screw to secure the trim ring.

7. Pull any slack in the wiring through the shroud behind the bucket to prepare for the next steps.

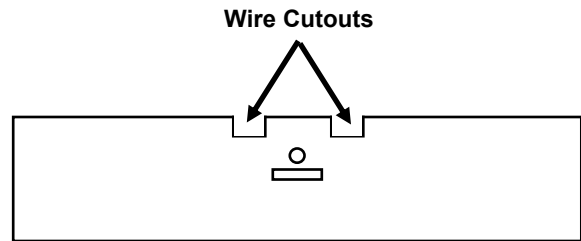
**Note:** It may be necessary to remove the gas tank. Turn the wheel to the right and see if you can locate the 8 pin harness connector under the rubber frame cover, see figure 9 below.

8. Follow the manufacturers instructions on removing the gas tank. For this installation, it is not necessary to remove the tank completely, just remove all of the hardware from the secure points, then disconnect the main & overflow fuel supply lines.

**Note:** Be aware that when removing the main fuel supply line, a small amount of gas may leak from the valve. Clean up any leaked gas appropriately.

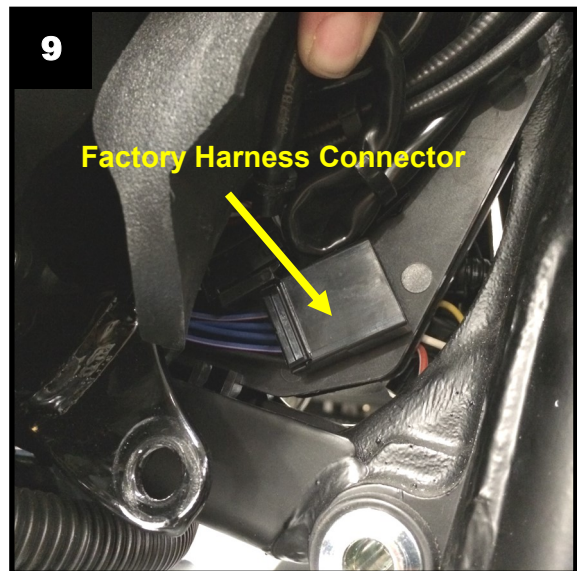
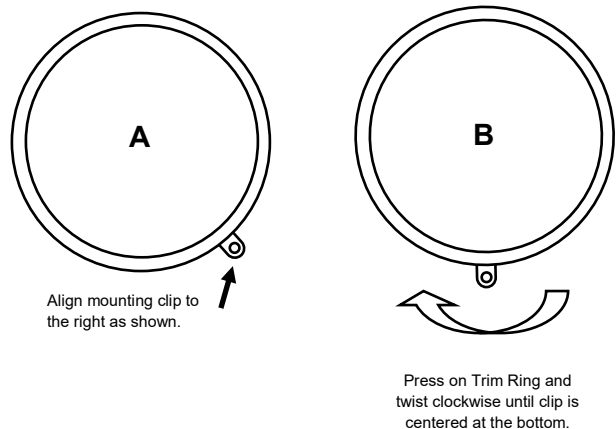
9. Now that the tank is free to move, slide the tank back along the frame approximately 6" to expose rubber frame cover. Pull the cover back to expose the 8 pin harness connector. (See connector pictured right). In the photo, the connector is located on the right side of the frame, depending on the year and model, it may be located on the left side.
10. Plug the ST-HARNESS provided in this kit into the factory harness plug. The space is tight in this area, you may need to flex the wires at an angle in order to get leverage to plug in. Make sure the connector clicks.
11. With the ST-HARNESS installed and the wires from the trim ring are run, we can now make our wiring connections. See next page for diagrams.

### Wire Route in the Cutouts



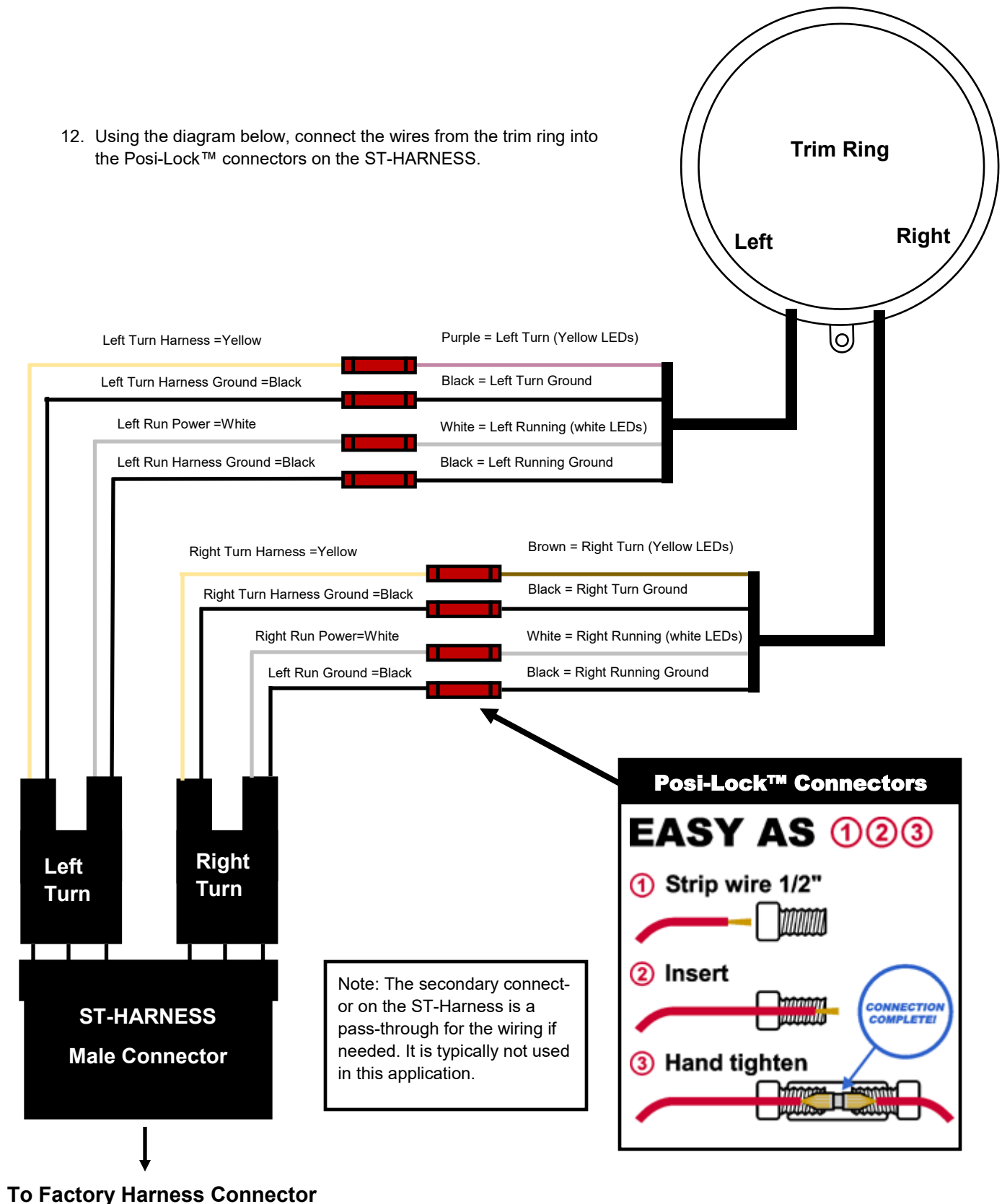
Bottom View of Trim Ring

### Trim Ring Installation Alignment



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12. Using the diagram below, connect the wires from the trim ring into the Posi-Lock™ connectors on the ST-HARNESS.

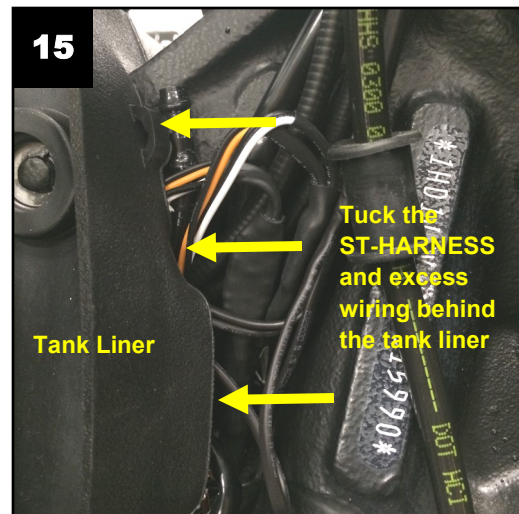
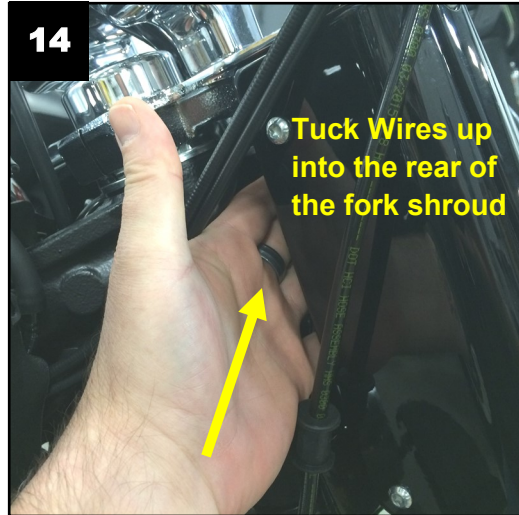


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- Once the connections have been completed, it is time to dress the wires. Start with providing enough slack to the trim ring wiring.

**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 shroud (see photo right). 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.
- Gather the ST-HARNESS and connections and neatly tuck in behind the Tank liner. Make sure no wires will get pinched or frayed when the tank is moved back into place. An example is shown in the photo bottom Right.
- Once the harness and wiring is secure, move the tank back to its normal position and secure back to the frame. Make sure to connect the main fuel line and over flow line back up.
- Connect negative battery terminal back to the bike.
- Test function of the new Trim Ring. In running mode, The white LEDs will be on around the entire ring. Test the left turn signal. The left half of 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. Try this with the Right Turn Signals as well.



Everything to Light Up Your Ride®

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