



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-1B, CDTB-7TR-1C

Package Contents:

- LED Halo Headlight Trim Ring (1)
- Converter Harness (2)
- 8-32 x 1 Black or Polished Screw (1)

Fitment: 2014 and Newer FLHT/FLHX



⚠ ATTENTION ⚠

Please read all Information below before Installation

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.

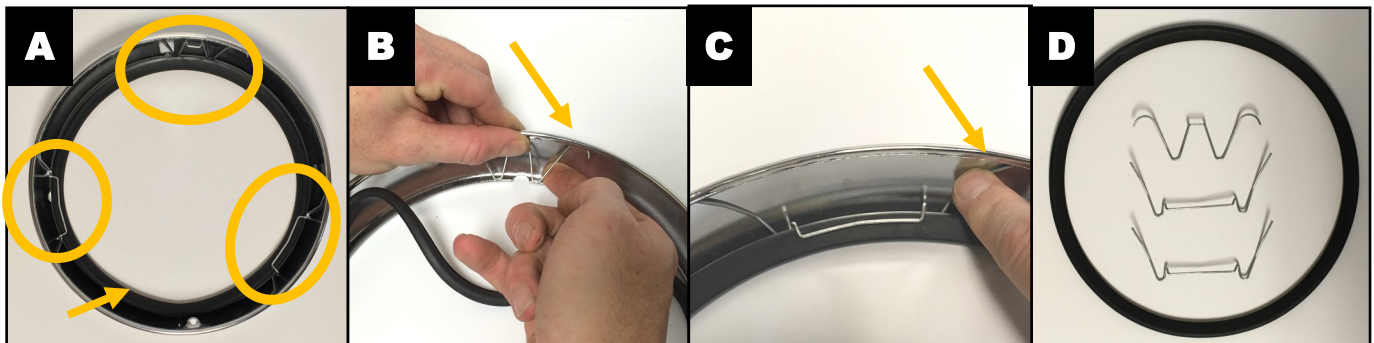
Note: You will have to remove the outer front fairing in order to complete this installation. Please refer to your manufacturer service manual if unsure of this procedure.

Care: Take special care in cleaning the Trim Ring, Never use abrasive polishes or cleaners as these may scratch the finish.

Notice: 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.

Installation: Trim Ring

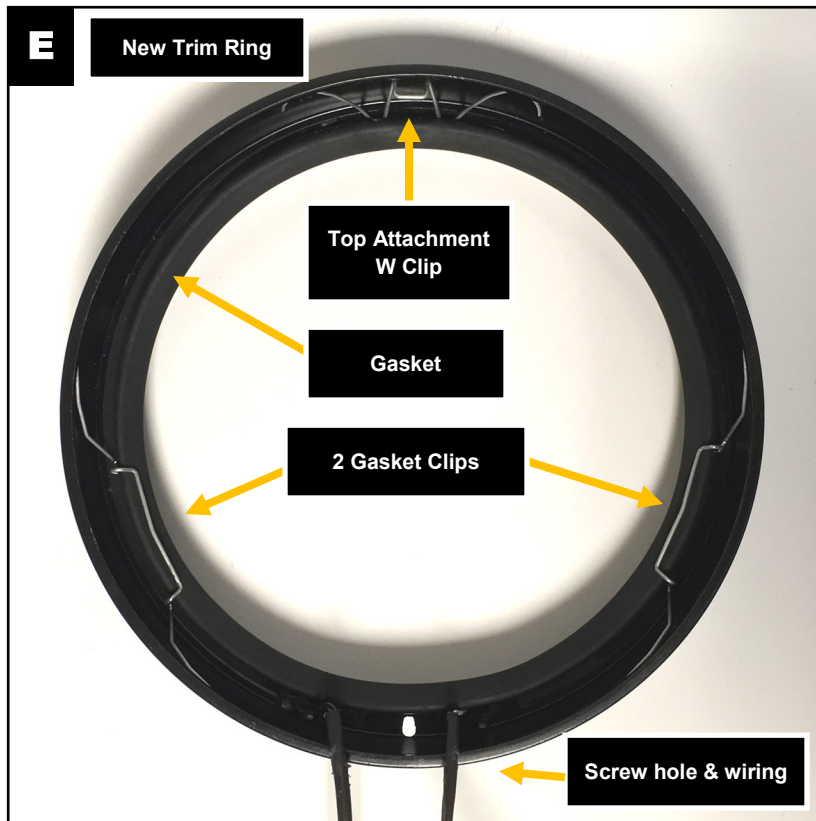
1. Carefully remove all components from the packaging. Take care removing the harness as to not damage the wiring or pull any wires out of the connectors. Un-ravel the wire bundles on the trim ring. Keep in a safe place until ready to install.
2. Consult owners manual for replacing headlamp before beginning. Remove the stock headlamp trim ring from the mounting Assembly.
3. Turn over stock trim ring and identify the top "W" attachment clip, the 2 gasket clips and the rubber gasket on the inside. See Figure A Below.
4. Remove the rubber gasket from the area around the top attachment clip, see figure B. Next, Place a finger at the top side W arm as shown in photos B & C. Pull downward and outward on the arm and the clip will come free. Repeat for all 3 clips.
5. Once the clips are removed, remove the rubber gasket and save pictured items in photo D for re-installation on the new Ring.



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

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Pre-Installation: Trim Ring Preparation (continued)



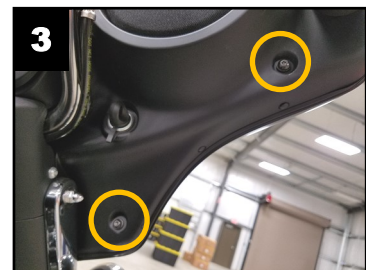
5. Set new trim ring on soft, clean surface to avoid harming the finish, face up with the screw hole pointing down to the bottom. Install the gasket around the raised metal edge of the ring.
6. Using photo E as a reference, first install the 2 gasket clips in the locations shown in the same manner they were removed.
7. With the 2 gasket clips holding the gasket in place, install the top attachment W clip, making sure that its position is exactly centered above the bottom screw hole as shown in photo E. The Trim ring is now ready for installation.

Installation: Trim Ring

Begin installation by removing the 3 top T27 Torx Bolts from the outer fairing. Remove the windshield and store in a safe place for reinstallation later.



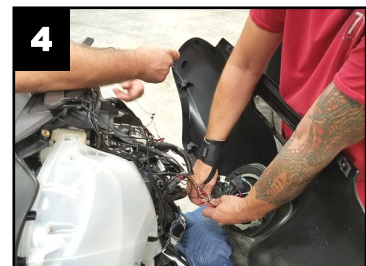
Remove the 2 T27 Torx bolts from the Right bottom side of the inner fairing as shown. Save for reinstallation later.



Remove the 2 T27 Torx bolts from the left bottom side of the inner fairing as shown. Save for reinstallation later.



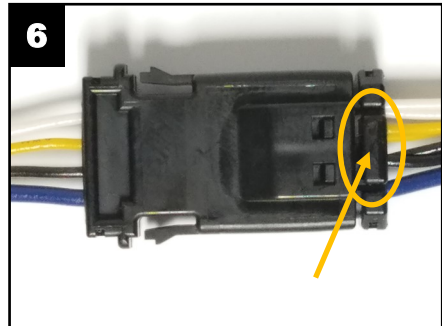
Pull the fairing away from the bike, then disconnect the H4 Connector from the headlamp. Lay on a protected flat surface for installation of the trim ring.



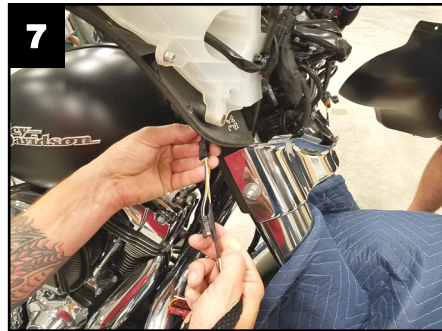
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Remove the 1/2" nuts that secure the turn signal housing to the fork. Store in a safe place for reinstallation later. Pull assembly away from the fork to reveal the black wiring connector.



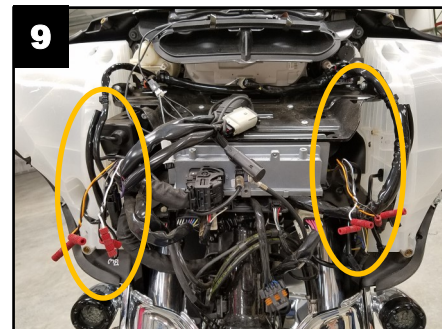
Unplug the connector by pushing in on the tab located on the male side of the connection, highlighted in the photo. Push the tab and pull apart both sides at the same time. Remove the turn signal assembly from the bike completely and store in a safe place for reinstallation shortly.



Using one of the provided Pass-through harness assemblies, plug the male end of the pass-through into the exposed female turn signal connector. Repeat steps 5, 6 and 7 on the Left side turn signal.



Push the Pass-through harness into the hole in the fork. Make sure that the Connector for the turn signal does not go into the hole. Plug the connector from the turn signal into the Pass-through harness, then reinstall the turn signal onto the fork frame and secure with the original nuts. Repeat for the other side.



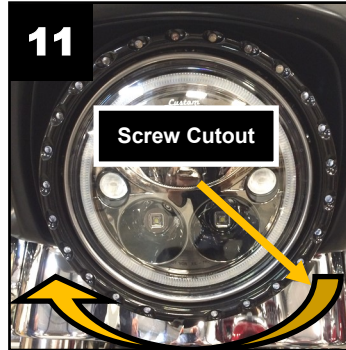
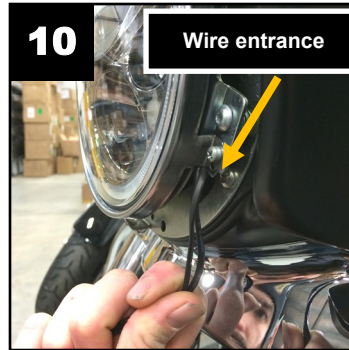
Now that the turn signals re secured, reach in through the front of the fairing and pull the Pass-through harnesses out of the fork tube areas and out the front of the fairing. Dress the harnesses so that they are at an optimal angle to receive the wiring from the windshield trim. Secure wiring as needed.

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Go to the fairing and take both sets of trim ring wires to feed them through the small opening between the headlamp and the frame as shown.

Grab the wires from the inside of the fairing and pull until there is no slack left on the outside. The wiring is now ready to connect to the provided Connector Harnesses.



Mount the Trim ring to the Headlight assembly. Align the Screw cutout to the right as shown in figure G, then push and turn the trim ring clockwise until the screw hole is aligned with the mounting arm at the bottom. You may need a flashlight to see inside to confirm alignment.

Once aligned, use the provided 8/32 X 1 screw to secure the trim ring to the fairing.

Installation: Wiring Connections

12. Prepare the red Posi-Connectors™ on each wire end by un-screwing the empty end of the connector about half way.
13. Notice the wire pairs on each Converter harness, there is a white paired with a black wire and a yellow wire is paired with a black wire. The black wires are the power wires corresponding grounds, they cannot be switched. See figure K for photo.
14. Examine the wires coming from the Trim Ring, the pair of wires with a PURPLE wire in it should go to the left turn converter harness. The wire pair of wires with a BROWN wire in it should go to the right turn converter harness:

Left Side Trim Ring Wire Pair Colors

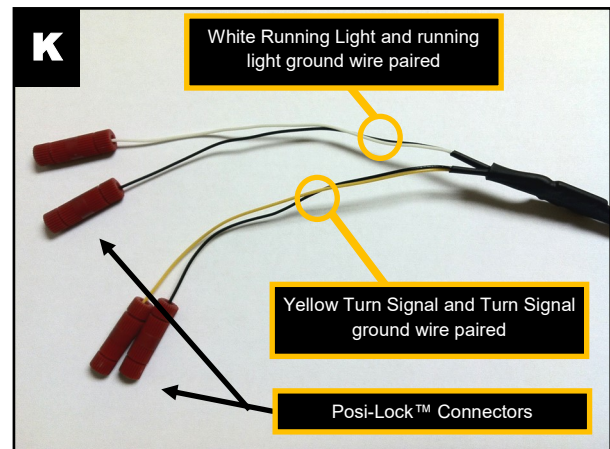
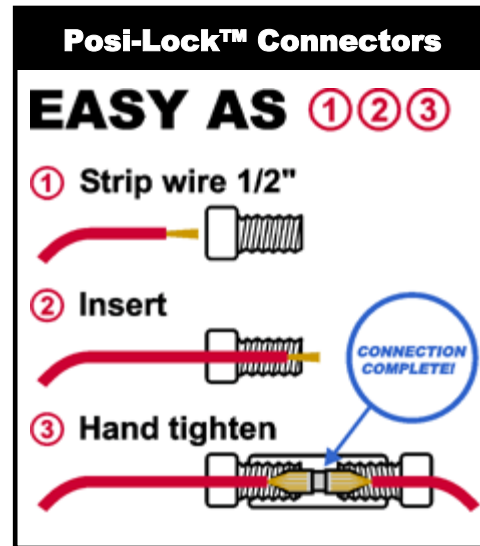
- White = Left side White LED Running Light
- Black = Left side Running Ground wire

- Purple = Left side Amber LED Turn Signal
- Black = Left Side Turn Signal Ground wire

Right Side Trim Ring Wire Pair Colors

- White = Right side White LED Running Light
- Black = Rightside Running Ground wire

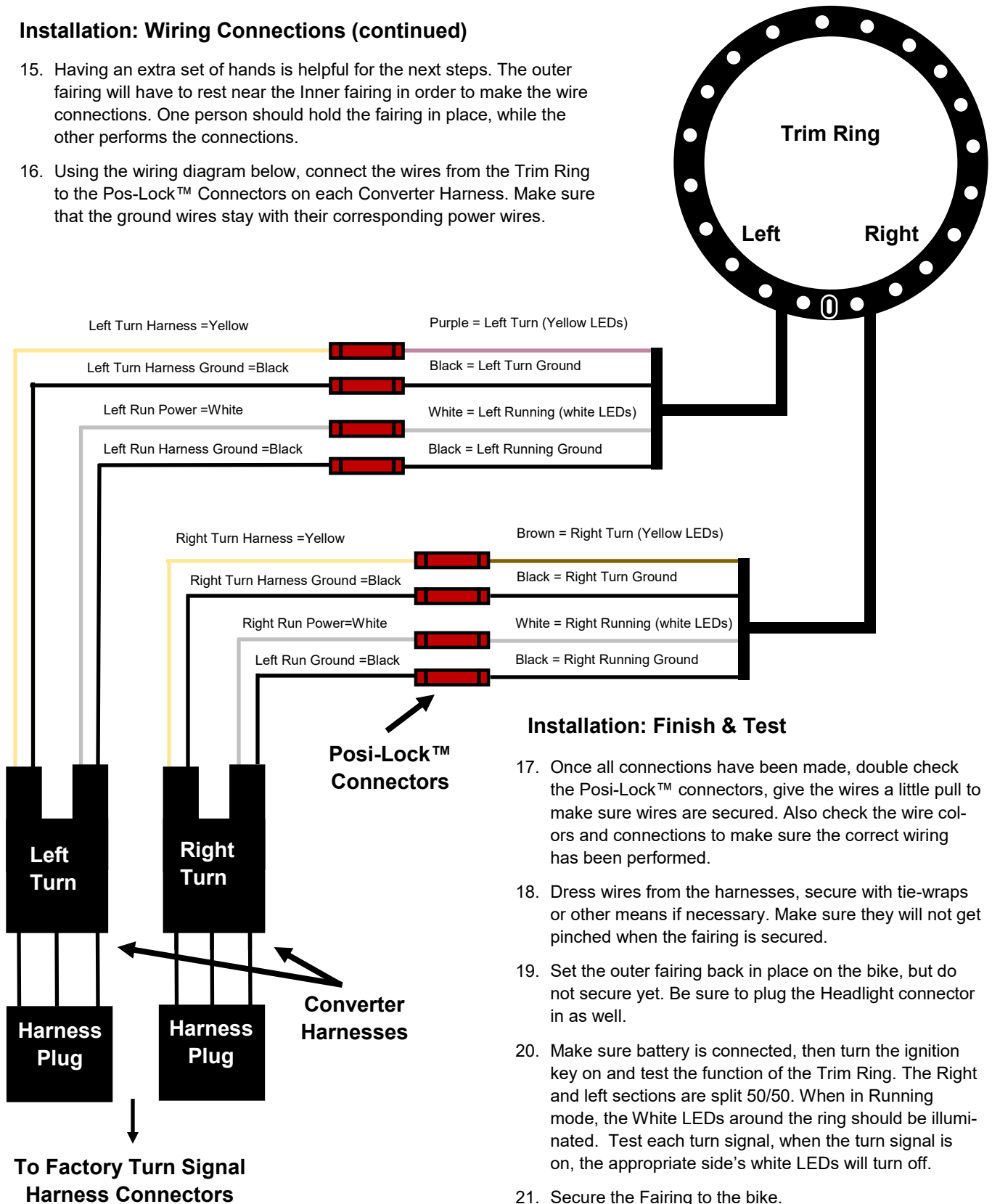
- Brown = Right side Amber LED Turn Signal
- Black = Right side Turn Signal Ground wire



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Installation: Wiring Connections (continued)

- Having an extra set of hands is helpful for the next steps. The outer fairing will have to rest near the Inner fairing in order to make the wire connections. One person should hold the fairing in place, while the other performs the connections.
- Using the wiring diagram below, connect the wires from the Trim Ring to the Posi-Lock™ Connectors on each Converter Harness. Make sure that the ground wires stay with their corresponding power wires.



Installation: Finish & Test

- Once all connections have been made, double check the Posi-Lock™ connectors, give the wires a little pull to make sure wires are secured. Also check the wire colors and connections to make sure the correct wiring has been performed.
- Dress wires from the harnesses, secure with tie-wraps or other means if necessary. Make sure they will not get pinched when the fairing is secured.
- Set the outer fairing back in place on the bike, but do not secure yet. Be sure to plug the Headlight connector in as well.
- Make sure battery is connected, then turn the ignition key on and test the function of the Trim Ring. The Right and left sections are split 50/50. When in Running mode, the White LEDs around the ring should be illuminated. Test each turn signal, when the turn signal is on, the appropriate side's white LEDs will turn off.
- Secure the Fairing to the bike.