



Custom Dynamics® F3 Brightsides™ Installation Instructions

We thank you for purchasing the Custom Dynamics® F3 Brightsides™! 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: SPY-F3-BRIGHTSIDE-R

Package Contents:

- Brightside™ LED's (Pair)
- SPY-TAIL-LT-HARNESS with Posi-Locks™ (2)
- TFC 1 Dual Converter (2)
- 22 Gauge 2 Conductor wire (10ft)
- 1/8" Shrink Tube (4)
- 1/4" Shrink Tube (2)
- 3M Adhesion Promoter (1)
- 4" Black Tie-Wraps (8)
- Tie Wrap Holder (4)

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.

Fits: 2015-2018 Can-Am Spyder® F3 and F3-S.

Installation can also be adapted to 2015-2018 F3-T and F3 Limited models.

Posi-Lock™ Connectors

EASY AS ① ② ③

① Strip wire 1/2"



② Insert



③ Hand tighten

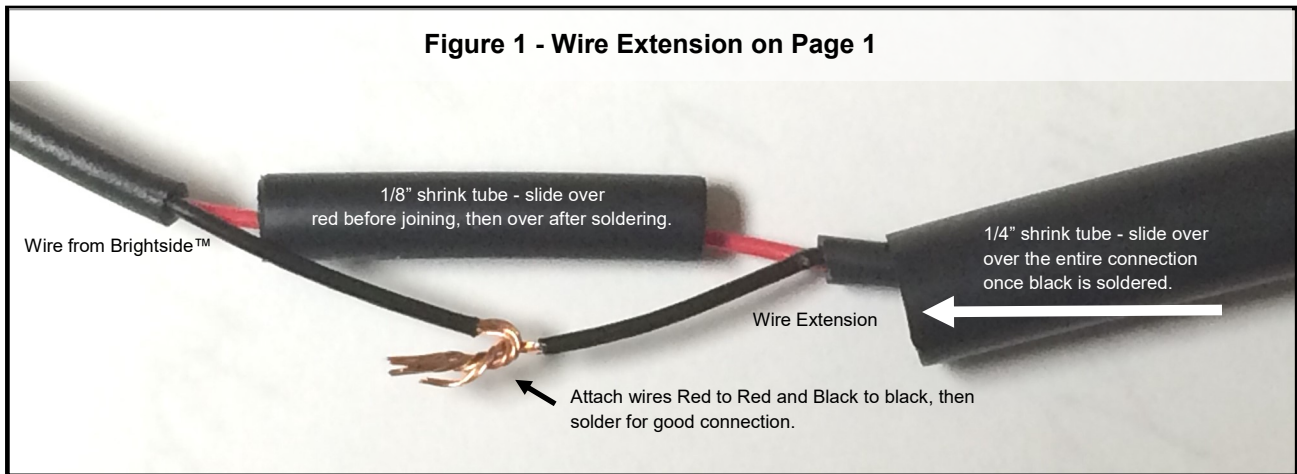


I. Pre-Installation - Wire Extension

1. Remove Items from the package and verify contents of the package from list above.
2. This product fits many Spyder® models, however, for the F3 application, the Brightsides™ wires must be lengthened. We have provided 22 gauge 2 conductor wire and shrink tubing for this. Cut the wire into (2) 5 foot sections for each Brightside™.
3. We will be using the 1/8" and 1/4" shrink tubing for this, strip the LED wire jacket and extension wire jacket back enough to be able to slide the 1/8" tubing over the red wire out of the way of soldering connections.
4. Slide a piece of 1/4" shrink tubing over the end of the extension wire and slide out of the way for now.
5. Slide a piece of the 1/8" shrink tubing over one end of the red wire, slide out of the way of wire end.
6. Twist the red wire of the LED together with the red wire of the extension. Apply solder to the connection.
7. Slide the 1/8" tubing down to cover the red wire soldered connection.
8. Use a heat gun to shrink the tubing down to insulate the connection.
9. Twist the black wire of the LED together with the black wire of the extension. Apply solder to the connection.
10. Slide the 1/4" shrink tubing over both connections.
11. Use heat gun to shrink the tubing down over the connections.
12. Repeat for the other Brightside™ LED unit.
13. Test your connections by applying 12V power to the ends of the extension wires, check that both LED units come on and that all LEDs are working.
14. Use the Diagram on page 2 for reference.

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

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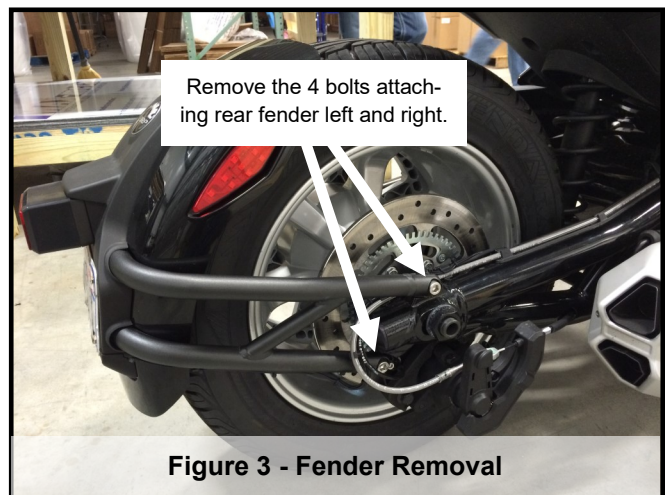


II. Pre-Installation - Parts Removal

1. Remove the lower right side panel and the Logo panel to allow access to the wiring and tag light connector. See service manual if unsure of this process.
2. Locate the 3 pin connector pictured in figure 2. It is a 3 pin connector with only 2 wires in it. The wire will be travelling to the rear fender. Unplug this connector. (See Figure 2)
3. Follow the tag light wire and remove it from the channel running along the swing arm, then unclip the wire from the brake line. Make sure the wire is free all the way to the fender assembly.

Note: Remember the route of the tag light wire, you will need to re-install the wiring the same way along with the Brightsides™ wires later.

4. Remove the rear fender assembly by removing the 4 bolts for the mounting bracket located 2 on each side. Refer to service manual if unsure of this step. (See Figure 3)
5. Once the fender is removed, remove the stock reflectors, by carefully prying or use fishing line to get behind the reflector to separate the tape from the fender.
6. Now that the reflectors are removed from the fender, clean up the surface, be sure all tape residue is gone.
7. Drill a small 3/16" hole in the center of the fender cut outs, fit test location with the LED unit for proper wire location.



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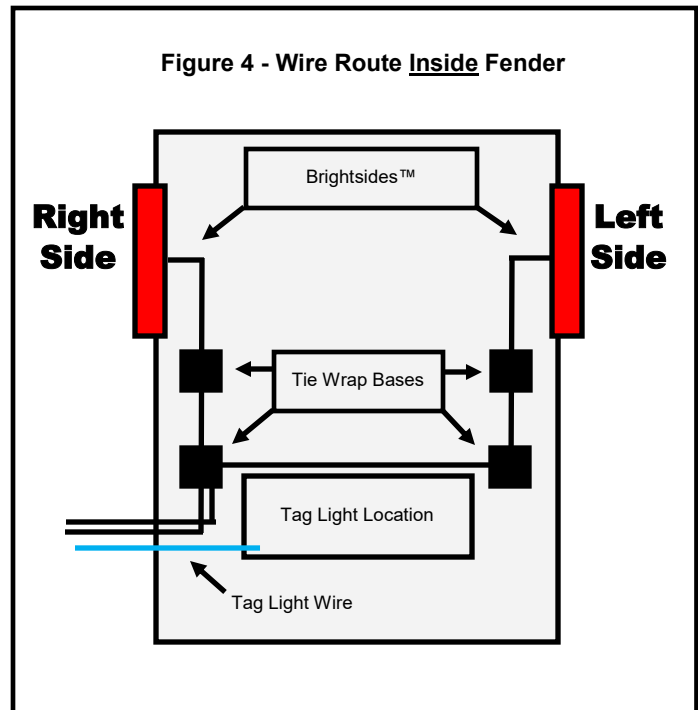
III. Installation - Mounting the Brightsides™

1. Using the provided 3M promoter ampule, apply promoter to both surfaces on the fender cutouts and allow to dry for 3-4 minutes.
2. Feed the wires through the holes that were drilled in the last section and pull through until Brightside is ready to mount to the fender.
3. Remove the red backing from the 3M tape and carefully apply to the fender, hold the wire from the inside of the fender to ensure the wire is all the way through.
4. Apply light pressure to ensure proper adhesion.

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IV. Installation - Routing of the Wiring

1. With Brightsides™ mounted to the fender, we now have to route the wires to the right side of the bike and up to the connection point. The first step is to dress the wires on the inside of the fender to protect them from the rear tire. Use the provided (4) tie wrap bases to attach the wire to the fender with the provided tie wraps. Be sure to clean the surface, then use the 3M promoter ampule on the surfaces where the bases will attach. Allow to dry 3-4 minutes.
2. Use the diagram in Figure 4 as a reference to mount and secure the wiring.
Note: The diagram view is looking at the inside of the fender, be sure that when completed, the wiring is exiting the fender on the RIGHT side of the bike, following the tag light wiring.
3. If the wiring is secured inside the fender, then it is time to re-attach the fender assembly to the bike. Take care to inspect the wires once the fender is installed, make sure nothing is coming in contact with the rear tire.



4. Now that the fender is back on the bike, we will route the 2 brightside™ wires and the tag light wire up the swing arm. Be sure the tag light clips back to the brake line same as before. Use provided tie-wraps to secure LED wires where needed.
5. Tuck all wiring into the channel running along the swing arm and back to the tag light connector.
6. Plug the tag light connector back into connector port it was removed from. (see Figure 2)

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V. Installation - Wiring in the Brightsides™

1. Remove the rider and passenger seats from the bike to allow access to the rear tail light wiring.
2. Route both Brightsides™ wires up to the tail light deck, secure with tie-wraps to frame where needed.
3. Locate the Left and right Tail light connectors, circled in the photo in figure 5.
4. Unplug the left and right tail light connectors and install the provided SPY-TAIL-LT-HARNESS connectors, plug male to female and female to male. The red Posi-Lock™ connectors are where the brightsides™ wires will attach to the bike.
5. Before the Brightsides™ can be connected to the harnesses, the dual converters must be installed on the red wires of the LEDs. Install the provided 1/8" shrink tubing over the single red end of the dual converter, slide out of the way to make room for connection.
6. Next, twist the red single wire end of the dual converter to the red wire of the Brightsides™. Solder this connection.
7. Slide the piece of 1/8" shrink tubing down over the soldered connection and use a heat gun to shrink down the tubing until connection is well insulated.
8. Make your connections to the harness, loosen the ends of the Posi-Lock™ connectors and insert the wires as follows: (See Figure 6).

- Black wire from LED's to Black Harness wire
- Orange wire from LEDs to Orange harness wire
- Red wire from LEDs to White harness wire

(For Instructions on using the Posi-Lock™ connectors, see diagram on page 1)

9. Repeat all steps for the other side LED, once finished, tie wrap any loose wires for a clean install. Make sure no wires will get pinched when the seat is installed.
10. Test function of Brightsides™, make sure they function the same as your tail lights, running light, full intensity brake light, and turn signal.
11. Re-install seats and side panels.

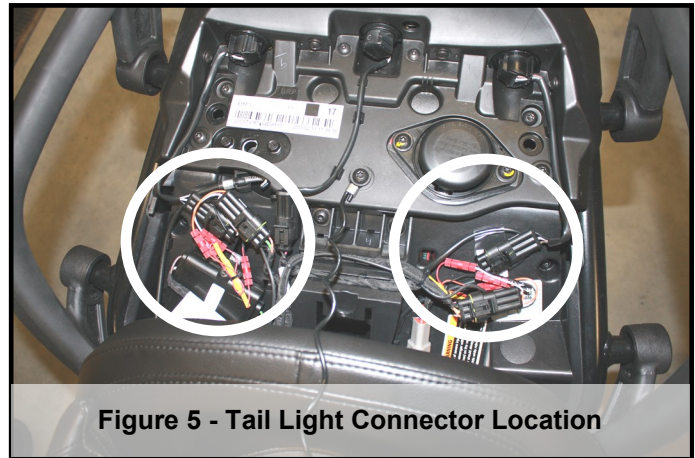
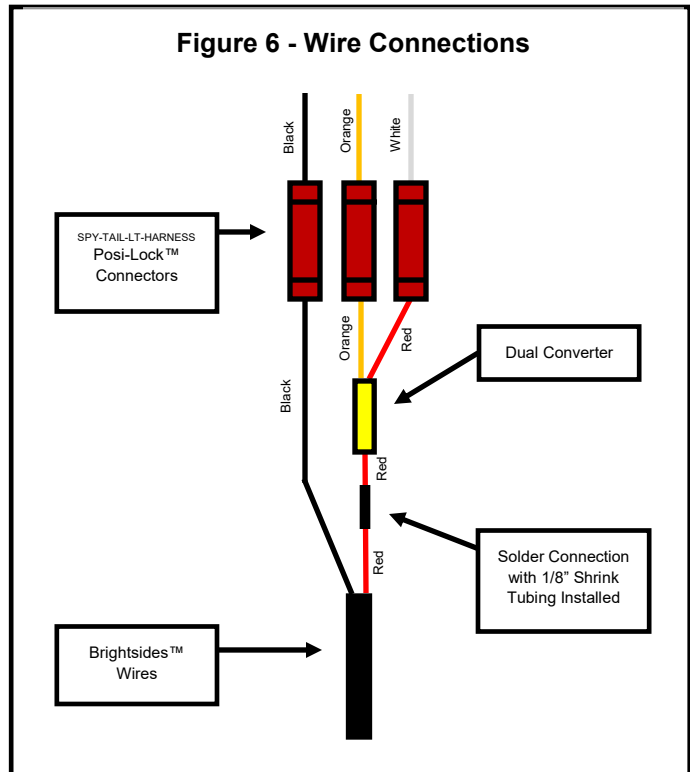


Figure 5 - Tail Light Connector Location



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