



## Custom Dynamics® TruFLEX® M109 LED Array Installation Instructions

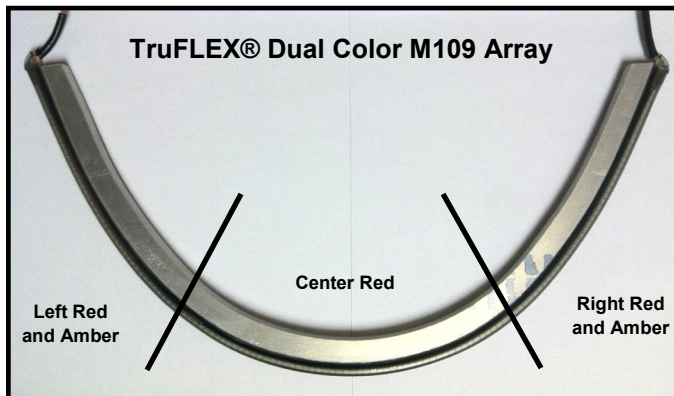
We thank you for purchasing the Custom Dynamics® TruFLEX® M109 LED Array! Our products utilize the latest technology and high quality components to ensure you the most reliable service. We offer one of the best warranty programs in the industry and we back our products with excellent customer support, if you have questions before or during installation of this product please call Custom Dynamics® at 1(800) 382-1388.

Part Number: M109-REAR-TFARRAY

### Package Contents:

- TruFLEX® LED Array (1)
- Adhesive Primer (1)
- Posi-Lock™ Connectors (6)
- Posi-Tap™ Connectors (2)
- Dual Converter TFC5 (1)

Fits: 2006-2015 Suzuki® M109/M90



### Preparing the Fender

1. Remove rear fender outer cover and rear inner fender assembly from bike. (See Figure 1)
2. Mark rear inner fender for cutting along line shown in white. (See Figure 2)
3. To ease cutting of inner fender, remove plate light from inner fender. (See Figure 3)

When using any LED turn signals on a M109 we recommend changing the flasher to our Non Load Dependent EDFR flasher for proper flash rate. Contact us for details.



Figure 1

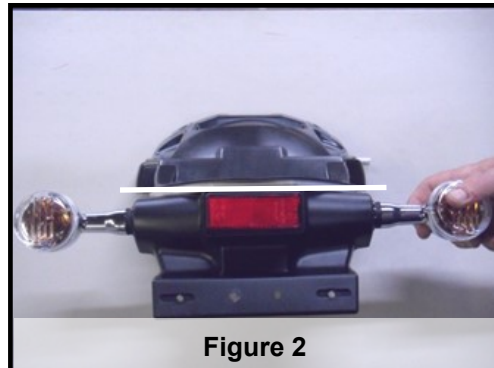


Figure 2

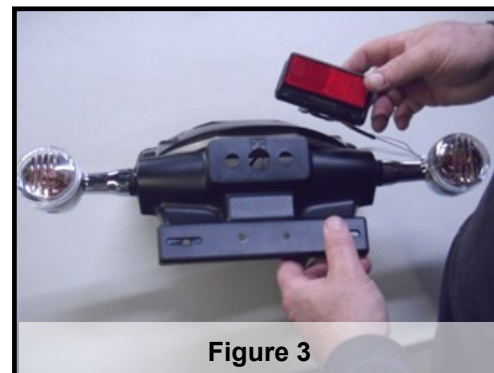
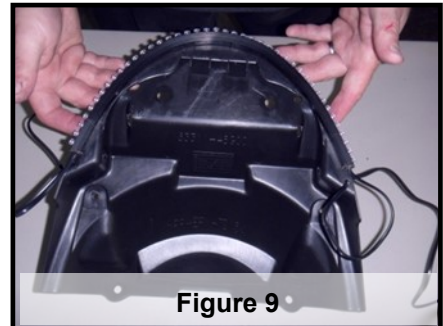
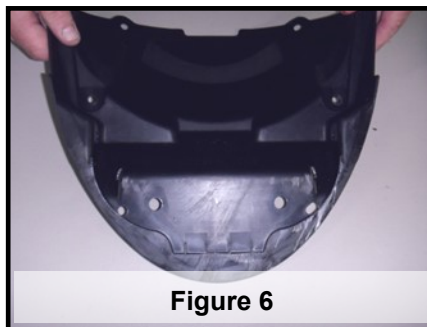
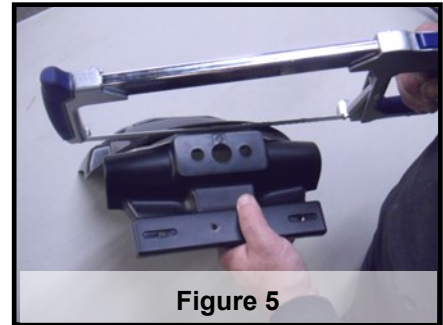
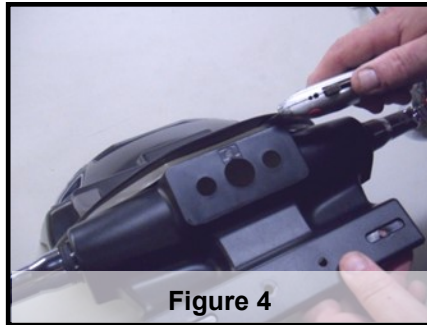


Figure 3

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

## Installation Instructions - Page 2

- Using a razor cutter, hacksaw or cutting device of your choice, cut inner fender along this line. (See Figures 4 & 5)
- Clean cut line until smooth and flat as shown. (See Figure 6)
- Lay Turn Signal onto underside of inner fender noting location where wires from Turn Signal end. Using a 3/16 drill bit drill holes in inner fender for wires to pass through. (See Figure 7)
- Using enclosed adhesive primer from kit, wipe down area where turn signal is to sit with the adhesive primer. Allow promoter to dry 1 minute. (See Figure 8)
- Remove backing from tape on Turn Signal and carefully install Turn Signal onto inner fender being sure to center Turn Signal onto inner fender. Press Turn Signal firmly into place once centered. (See Figure 9)
- Run wires from Turn Signal through holes drilled in step 6 (See Figure 9)
- Reinstall inner fender on to bike.



### Wiring Instructions

- The Array is designed with 3 red sections (Left/Center/Right) with the left and right sections having both red and amber LED's.
- Confirm the wiring in your harness, the M109 color code should be the colors listed here, if not, use a test light to confirm all functions of running light, brake light, left turn and right turn.

Brown - Running Light Wire  
White with black stripe - Brake Light Wire  
Black with white stripe - Ground Wire  
Solid Black - Left Turn signal Wire  
Light Green - Right Turn Signal Wire

### Posi-Lock™ Instructions

**EASY AS** ① ② ③

① Strip wire 1/2"



② Insert



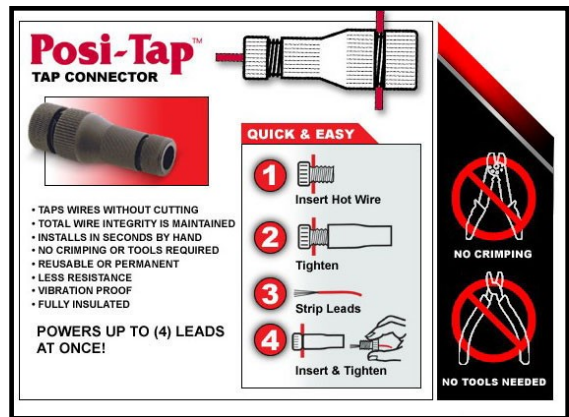
③ Hand tighten



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

## Installation Instructions - Page 3

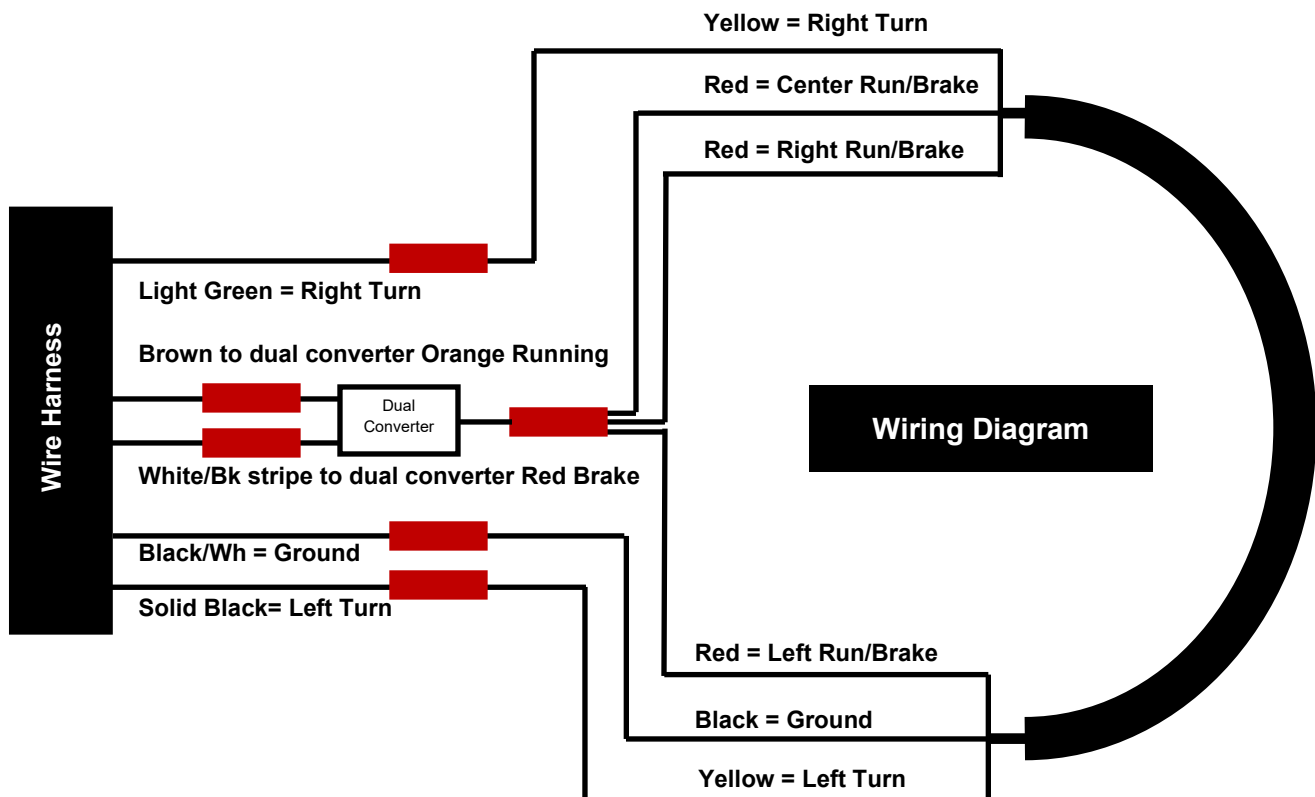
13. Using the supplied Posi-Lock™ connectors, start by wiring all 3 RED wires from the LED array together.
14. On the input side of the Posi-lock™ with these wires you will attach the single red of the (Y) Dual converter. The 2 wire side of the (Y) is Orange (Running) and Red (Brake).
15. Using the supplied Posi-taps™, connect the Orange (running) wire from the dual converter to the Brown (running) wire in your harness and the Red (brake) wire from the dual converter to the White with a black stripe (brake) wire in your harness.
16. Connect the Black (ground) wire from the LED array to the Black with a white stripe (ground) wire in your harness with the Posi-Lock™ connector.
17. Connect the Left Yellow (Left Turn) wire to the Solid Black (Left Turn) wire in your harness with the Posi-Lock™ connector.
18. Connect the Right Yellow (Right Turn) wire to the Light Green (Right Turn) wire in your harness with the Posi-Lock™ connector.
19. Test function of LED Array in all modes, Running, Brake, Left turn and Right Turn.



### Wiring options:

**NOTE:** If you want only turn signal function, do not connect the red wires of the array or the dual converter. Cap off wires to prevent shorting.

**NOTE:** If you only want running and brake function, do not connect the yellow wires of the array. Cap off wires to prevent shorting.



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