# Custom Dynamics® Yamaha® Raider Rear LED Array Installation Instructions

We thank you for purchasing the Custom Dynamics® Yamaha® Raider Rear 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: RAIDREAR-LED-ARA

**Package Contents:**
- Raider Rear LED Array (1)
- Adhesive Primer (1)
- Posi-Tap™ Connector (5)
- Posi-Lock™ Connector (1)
- Heat Shrink Tubing (2)
- Dual Converter (1)

**Fits:** 2014 and earlier Yamaha Raider (Not Compatible on 2015 or Newer Models)

**Posi-Tap™ TAP CONNECTOR**

- TAPS WIRES WITHOUT CUTTING
- TOTAL WIRE INTEGRITY IS MAINTAINED
- INSTALLS IN SECONDS BY HAND
- NO CRIMPING OR TOOLS REQUIRED
- REUSABLE OR PERMANENT
- LESS RESISTANCE
- VIBRATION PROOF
- FULLY INSULATED

POWERS UP TO (4) LEADS AT ONCE!

**QUICK & EASY**
1. Insert Hot Wire
2. Tighten
3. Strip Leads
4. Insert & Tighten

NO CRIMPING
NO TOOLS NEEDED

**Note**: To install the LED Turn Signals, you must cut off the plastic assembly that holds the stock OEM turn signals, center reflector, and license plate mount. An alternate license plate mount will be needed.

**Note**: When removing stock turn signals and changing to LED's, you may experience a fast flash or signals that come on solid and do not flash at all. A Smart Signal Stabilizer™ (GEN2-SSUNV) or load equalizer will be needed to regulate the load on the turn signals so that they will flash at the proper rate. Contact us for details.

## Installation Instructions:

1. Trace a line on the black plastic where it meets the chrome bezel of the tail light with a pen.

2. There are four bolts that hold the plastic piece in place, please remove these four bolts from inside the fender.

3. Remove the chrome bezel for the tail light by removing the 2 Philips head screws, Remove the 2 plastic fasteners that are attached to the bezel and remove the chrome bezel.

4. After the bezel is gone, there will be 3 remaining Philips head bolts, remove these. The remainder of the tail light assembly can now be removed.

5. Cut along the trace line that you marked earlier on the black plastic and remove the lower part of the assembly.

6. Test fit the LED array onto the chrome bezel. Clean the surface of the chrome bezel with alcohol, apply the supplied Adhesive Primer. Allow to dry. Remove liner from 3M tape and carefully place LED array onto the chrome bezel.

## Wiring Instructions:

7. The Array is designed with 3 sections (Left/Center/Right). The left and right having amber LED's. The center has red LEDs.

8. Confirm the wiring in your harness, the Yamaha® 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.

   Blue -  Running Light Wire
   Yellow - Brake Light Wire
   Black  -  Ground Wire
   Brown - Left Turn signal Wire
   Dark Green  - Right Turn Signal Wire

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9.  Using a Posi-Lock™ connect the Red wire of the rear array to the single red of the (Y) Dual converter. The 2 wire side of the (Y) is Orange (Running) and Red (Brake).

10. Using the supplied Posi-tap™, connect the Orange (running) wire from the dual converter to the Blue (running) wire in your harness and the Red (brake) wire from the dual converter to the Yellow (brake) wire in your harness.

11. Connect the Black (ground) wire from the LED array to the Black (ground) wire in your harness with the Posi-Lock™ connector.

12. Connect the Left Yellow (Left Turn) wire to the Brown (Left Turn) wire in your harness with the Posi-Lock™ connector.

13. Connect the Right Yellow (Right Turn) wire to the Dark Green (Right Turn) wire in your harness with the Posi-Lock™ connector.

## Finish & Test

15. Reinstall the tail light and bezel. Reassemble the entire tail light assembly. Also double check to make sure there are no loose wires hanging down that might get caught on the tire, use tie wraps to secure any loose wires.

16. Test function of LED Array in all modes, Running, Brake, Left turn and Right Turn.

**Wiring Diagram**

Yellow = Right Turn

Red = Center Run/Brake

Posi-Tap™

Dark Green = Right Turn

**Wire Harness**

Blue to dual converter Orange Running

Posi-Tap™

Posi-Tap™

Dual Converter

Posi-Lock™

Yellow to dual converter Red Brake

Black = Ground

Brown = Left Turn

Posi-Tap™

Black = Ground

Yellow = Left Turn

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