



## Custom Dynamics® Dynamic Load Isolator Installation Instructions

We thank you for purchasing the Custom Dynamics® Dynamic Load Isolator! 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.

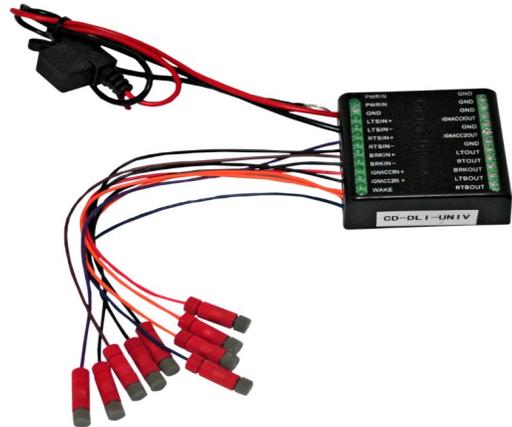
**Part Number: CD-DLI-UNV**

### Package Contents:

- Dynamic Load Isolator (DLI) (1)
- Posi-Tap™ Connector (9)

**Fits: Universal 12VDC**

**Compatible with any electrical accessory up to 10 Amps.  
30 Amp total maximum output capacity.**



### **Installation:**

1. Secure motorcycle on level surface.
2. Remove seat.
3. Locate bikes main harness going to rear lights.

**Note:** Use a 12 volt circuit tester for steps 4-10 to verify circuits.

**Note:** See page 2 for Posi-Tap® instructions.

4. Attach Blue wire from DLI to running light or switched power source in the bike's harness using a Posi-Tap™ connector.
5. Attach Orange wires from DLI to accessory power (if applicable) or a switched power source in the bike's wiring harness using a Posi-Tap™ connector.
6. Attach Black wires in harness from DLI to ground wire in bike's wiring harness using a Posi-Tap™ connector.
7. Attach Brown wire from DLI to right side rear directional wire in bike's wiring harness using a Posi-Tap™ connector.
8. Attach Purple wire from DLI to left side rear directional wire in bike's harness using a Posi-Tap™ connector.
9. Attach Red wire from DLI to the brake circuit wire of bike's harness using a Posi-Tap® connector.
10. Attach the single Red fusible wire of the DLI to the positive side of the battery using attached ring terminal.



## ATTENTION



Please read all Information below before Installation

**Warning:** Do not exceed 30 amp load. Doing so could cause the unit to overheat.

**Important:** Module must be secured after installation.

**Important:** Do not attempt to make changes to the input side of the DLI. Doing so will cause malfunction of unit.

**Note:** If a Brake Strobe unit is plugged in front (before) the DLI, both the bike's rear harness and any brake accessories attached on the output side of the DLI will have the brake strobe pattern. If the Brake Strobe unit is plugged in behind (after) the DLI, only the rear harness of the bike will have the brake strobe pattern.

**Note:** Run/Brake/Turn units must be plugged in behind (after) the DLI.

**Note:** Each wire port can accept multiple wires depending on the gauge of the wire.

**Note:** While some wiring examples are included, follow the directions included with each accessory you are adding to the DLI.

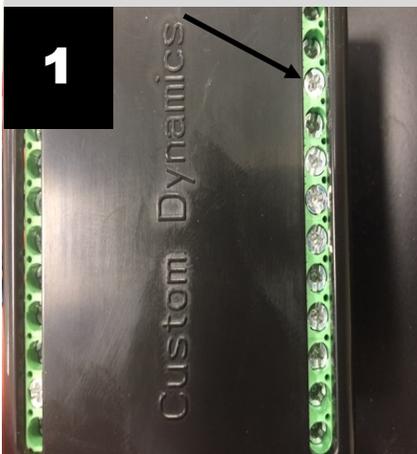
**Note:** Smart Signal Stabilizer™ or load equalizers must be installed in front of (before) the DLI.

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

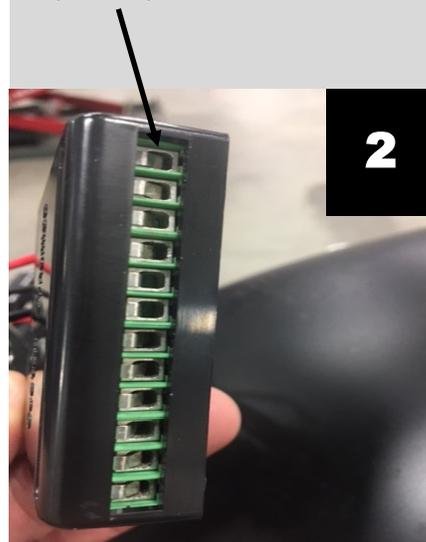
## Installation Instructions - Page 2

11. Attach the single Black wire of the DLI to the ground side of the battery using attached ring terminal.
12. Select the desired functions of the DLI (see diagram on page 3).
13. Use a small straight slot or Phillips screw driver in the output bank selected. Turn the screw counter-clockwise until the wire port is open (see picture 1 below).
14. Place the wire of the accessory in the wire port of the DLI and turn the screw clockwise until it is tight against the wire (see picture 2 below).
15. Check operation of all lighting before riding.
16. Locate a secure place to mount the DLI unit that will not interfere with the secure placement of the seat.
17. Reinstall seat.

Use a small straight slot screw driver in the output bank selected and turn the screw counter-clockwise until the wire port is open.



Output wire ports.



**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**

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### DLI Output Port Functions:

**GND:** Four Ground outputs.

**IGNACCOUT 1 & 2:** 12 volt switchable power sources that can be used for accessories or running light operation.

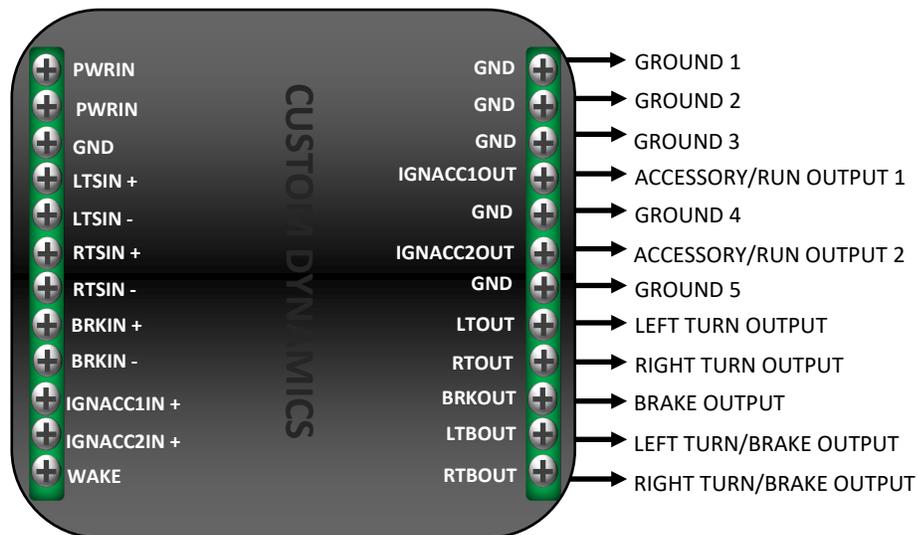
**LTOUT:** Output follow bike's rear turn signal circuit operation.

**RTOUT:** Output follow bike's rear turn signal circuit operation.

**BRKOUT:** Brake signal operation only.

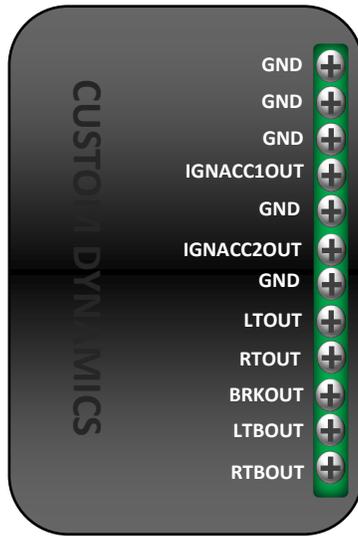
**LTBOUT:** Left turn signal and Brake operation with turn signal over riding the brake signal for the left side. The right side will still receive a brake signal.

**RTBOUT:** Right turn signal and brake operation with turn signal over riding the brake signal for the right side. The left side will still receive a brake signal.



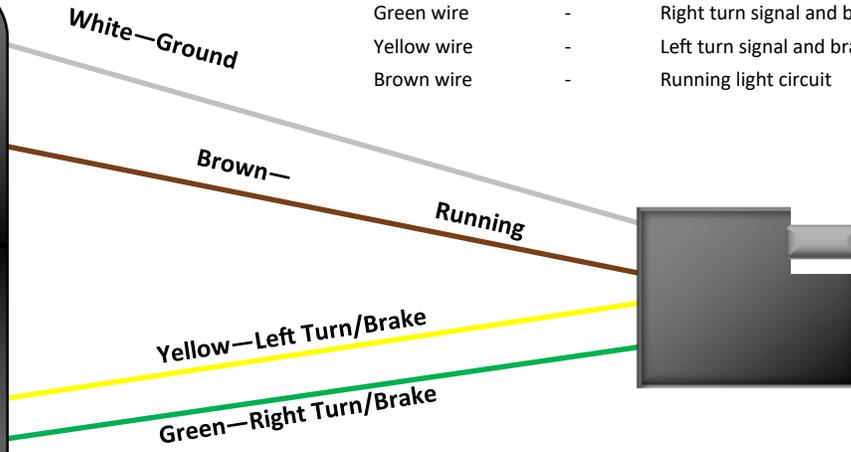
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## 4 Pin Trailer Harness



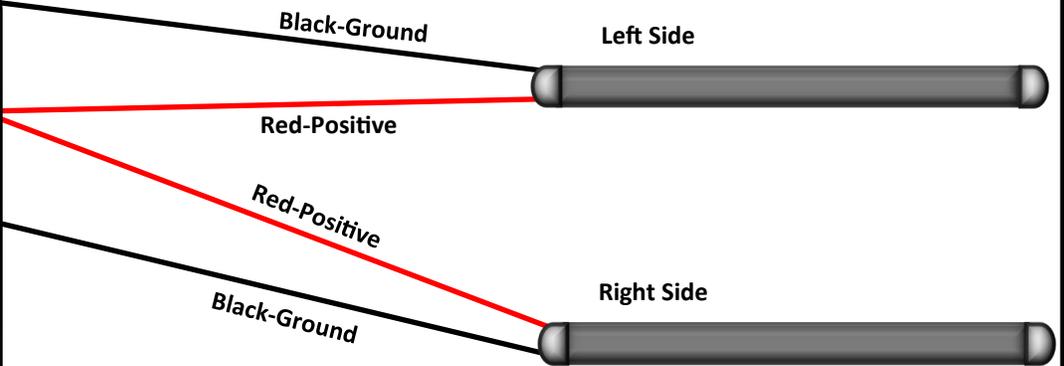
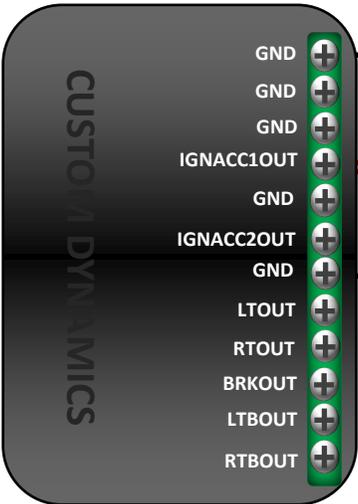
## 4 Pin Trailer Harness (optional):

- White wire - Ground
- Green wire - Right turn signal and brake signal
- Yellow wire - Left turn signal and brake signal
- Brown wire - Running light circuit

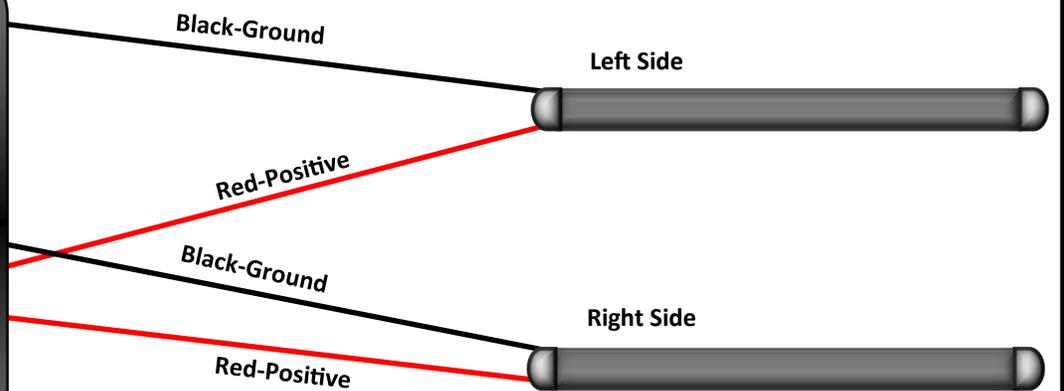
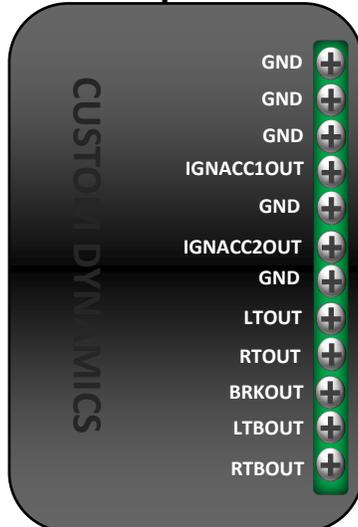


## Run Operation:

## Single Intensity LEDs



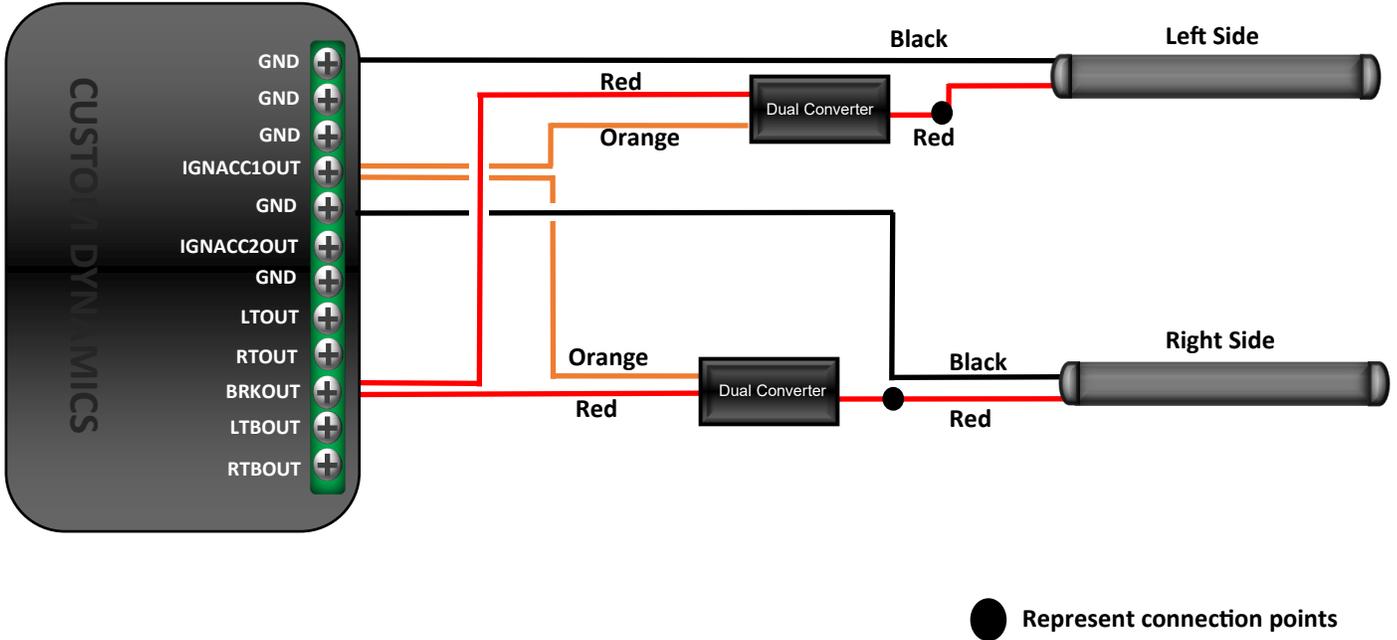
## Turn Operation:



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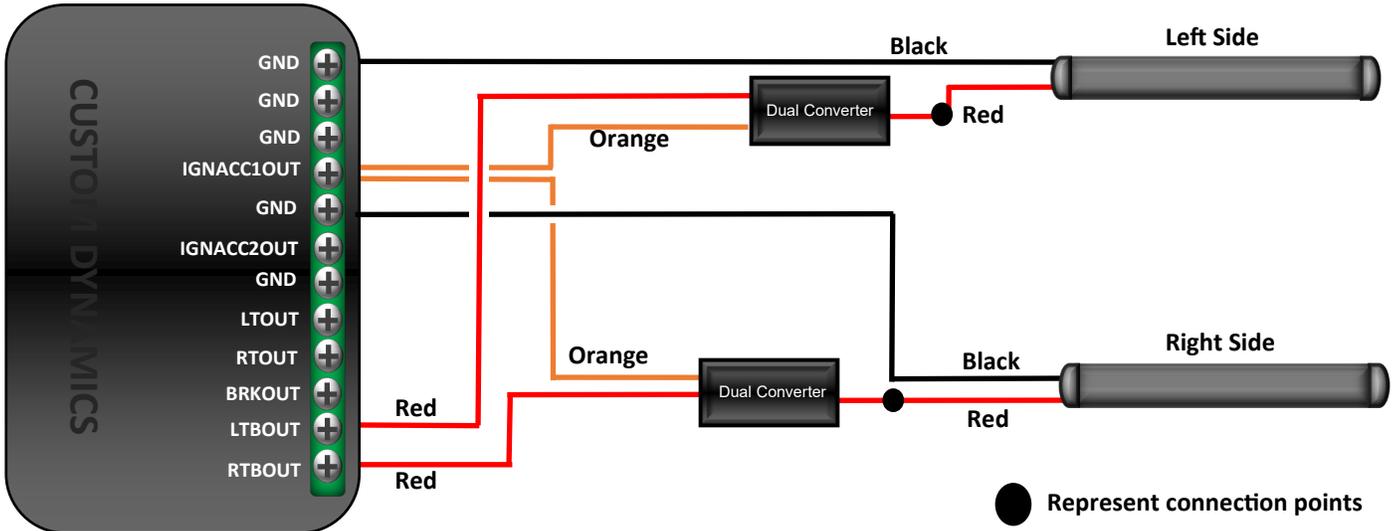
## Dual Intensity LEDs

### Run-Brake Operation:



## Dual Intensity LEDs

### Run-Brake-Turn Operation:



**Note:** While some wiring examples are included, follow the directions included with each accessory added to the Dynamic Load Isolator.