Custom Dynamics® Indian® Dynamic Load Isolator Installation Instructions

We thank you for purchasing the Custom Dynamics® Indian® 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.
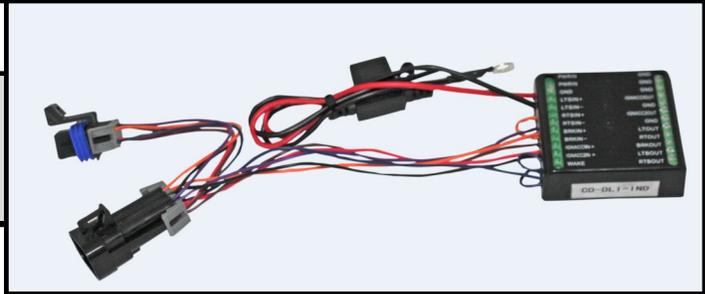
Part Number: CD-DLI-CHAL

Package Contents:

- Dynamic Load Isolator (DLI) (1)

Fits: 2020-2021 Indian® Challenger, Challenger Dark Horse & Challenger Limited models.

COMPATIBLE WITH ANY ELECTRICAL ACCESSORY UP TO 10 AMPS.

45 AMP TOTAL MAXIMUM OUTPUT CAPACITY

⚠ ATTENTION ⚠

Please read all Information below before Installation

Warning: **Do not exceed 45 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 Dynamic Load Isolator. 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 Dynamic Load Isolator.

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 Dynamic Load Isolator.

Installation:

1. Secure motorcycle on level surface.

2. Remove seat.

3. Disconnect negative [-] battery cable from the battery.

4. Locate and unplug the lighting connector to the rear fender under the seat (see Picture 1 on Page 2).

5. Plug the DLI™ module, in-line, into the rear lighting harness plug and the bike's main wiring harness plug.

6. Refer to typical output wiring configuration diagrams on Page 3 and 4 that best fits your application.

7. To connect the wires to the Dynamic Load Isolator, use a small straight slot or Phillips screw driver to turn the output bank screw counter-clockwise until the wire port is fully open (see Picture 2 on page 2).

8. Place the wire of the accessory in the wire port of the Dynamic Load Isolator and turn the screw clockwise until it is tight against the wire.

9. Once all of the output connections have been made, connect the single Red fusible wire of the Dynamic Load Isolator to the positive battery post.

10. Attach the single Black wire of the Dynamic Load Isolator to the ground side of the battery.

11. Connect the battery's negative battery cable along with the single Black wire of the Dynamic Load Isolator to the negative [-] of the battery.

12. Locate a secure place for the Dynamic Load Isolator unit that will not interfere with the secure placement of the seat.

13. Reinstall seat.

14. Check operation of all lighting before riding.

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

05/2021

Dynamic Load Isolator 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: Left turn/brake signal operation.

RTOUT: Right turn/brake signal 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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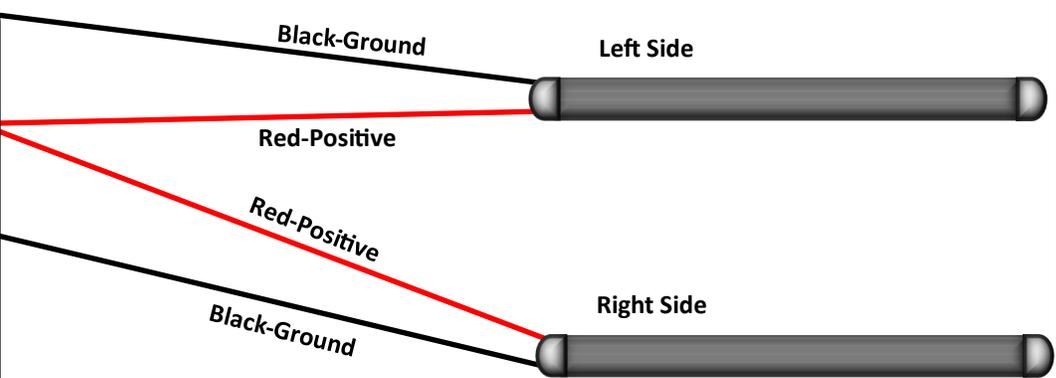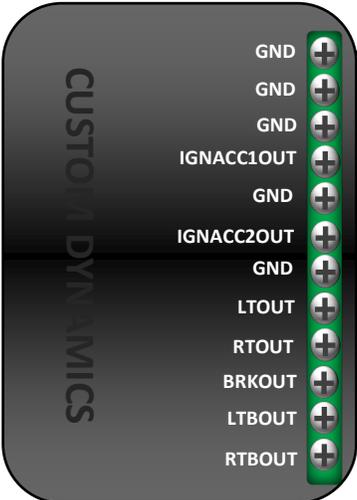
4 Pin Trailer Harness

4 Pin Trailer Harness (optional):

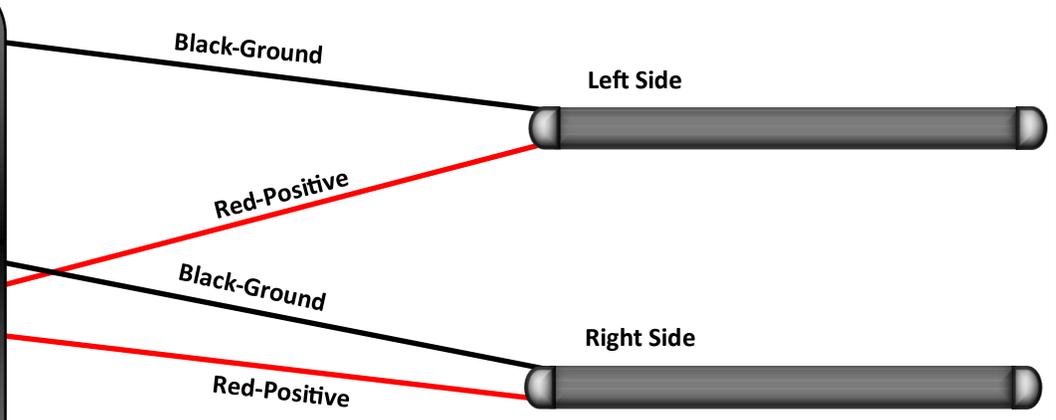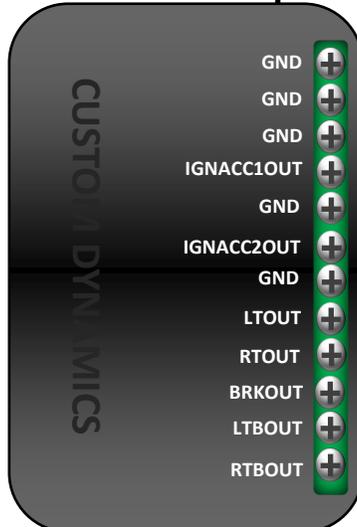|		
White wire	-	Ground
Green wire	-	Right turn signal and brake signal
Yellow wire	-	Left turn signal and brake signal
Brown wire	-	Running light circuit

CUSTOM DYNAMICS

GND
GND
GND
IGNACC1OUT
GND
IGNACC2OUT
GND
LTOUT
RTOUT
BRKOUT
LTBOUT
RTBOUT

White—Ground
Brown—Running
Yellow—Left Turn/Brake
Green—Right Turn/Brake

Run Operation: Single Intensity LEDs

CUSTOM DYNAMICS

GND
GND
GND
IGNACC1OUT
GND
IGNACC2OUT
GND
LTOUT
RTOUT
BRKOUT
LTBOUT
RTBOUT

Black-Ground
Left Side
Red-Positive
Red-Positive
Right Side
Black-Ground

Turn/Brake Operation:

CUSTOM DYNAMICS

GND
GND
GND
IGNACC1OUT
GND
IGNACC2OUT
GND
LTOUT
RTOUT
BRKOUT
LTBOUT
RTBOUT

Black-Ground
Left Side
Red-Positive
Black-Ground
Red-Positive
Right Side

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Dual Intensity LEDs

Run-Brake Operation:

GND
GND
GND
IGNACC1OUT
GND
IGNACC2OUT
GND
LTOUT
RTOUT
BRKOUT
LTBOUT
RTBOUT

Black — Left Side

Red

Orange — Dual Converter — Red

Orange — Right Side

Red — Dual Converter — Black — Red

Dual Converter Orange Positive—Running Light
Red Positive—Brake
Black-Ground

● **Represent connection points**
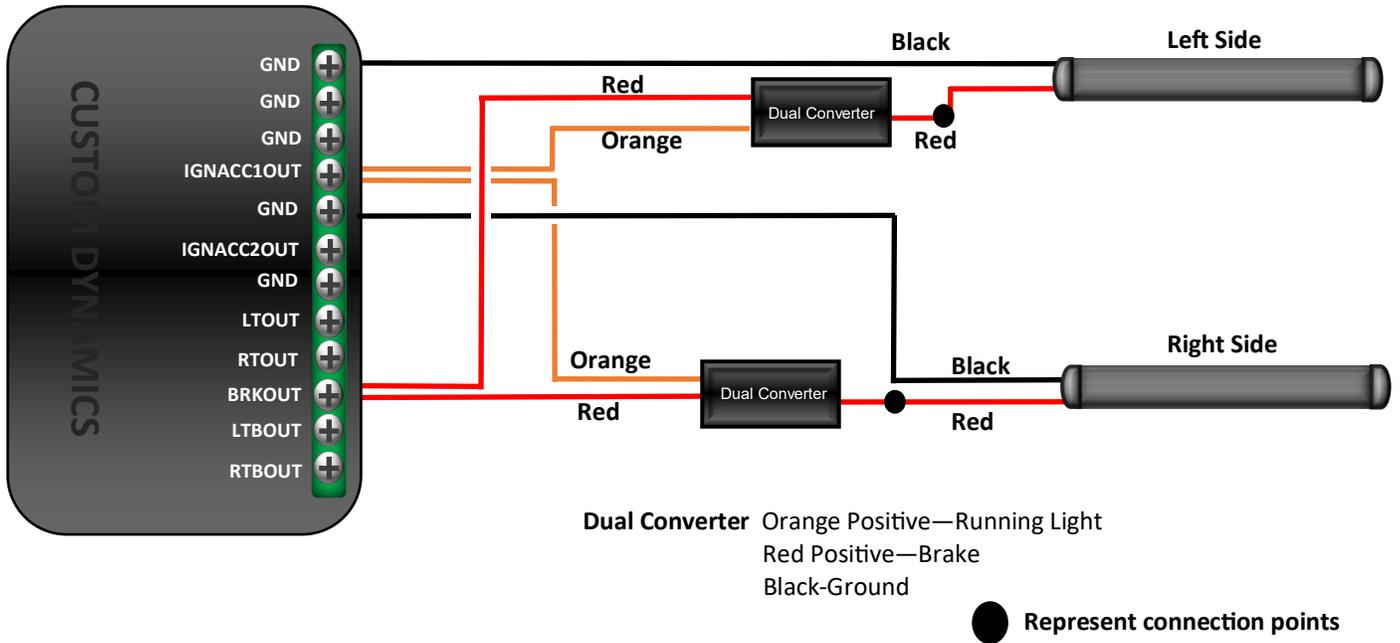
Dual Intensity LEDs

Run-Brake-Turn Operation:

GND
GND
GND
IGNACC1OUT
GND
IGNACC2OUT
GND
LTOUT
RTOUT
BRKOUT
LTBOUT
RTBOUT

Black — Left Side

Orange — Dual Converter — Red

Orange — Right Side

Red — Black

Red — Dual Converter — Red

Red

Dual Converter Orange Positive—Running Light
Red Positive—Brake
Black-Ground
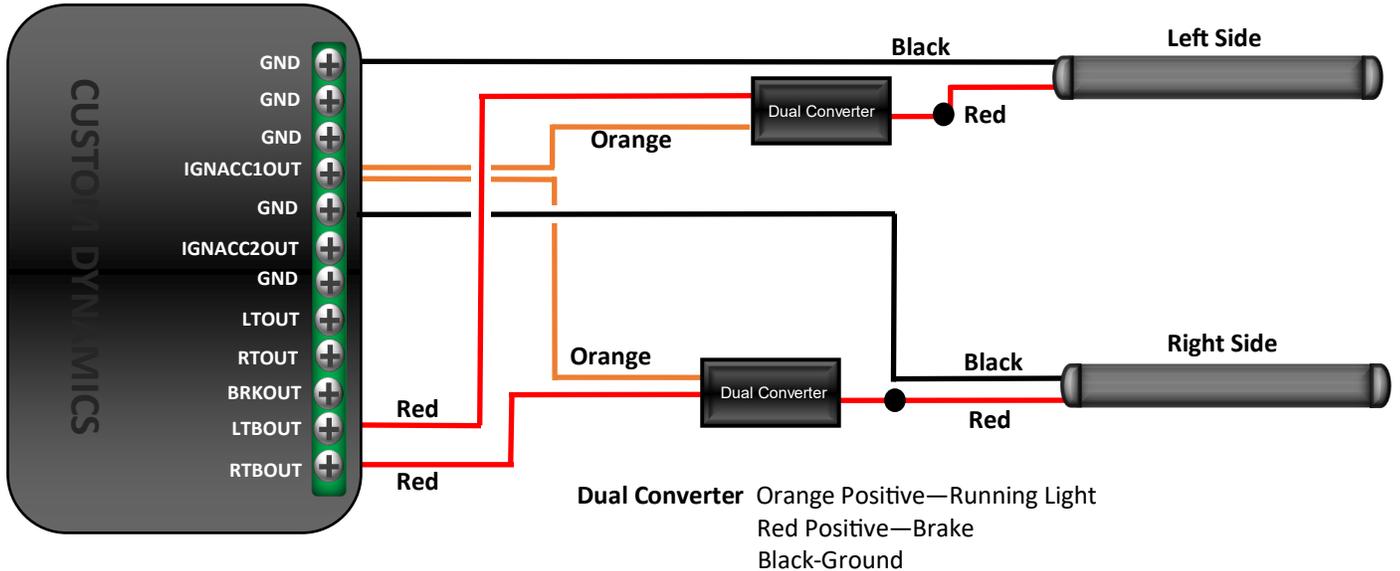
Note: While some wiring examples are included, follow
the wiring directions included with each accessory added
to the Dynamic Load Isolator.

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