



USER INSTRUCTIONS

PLUG & PLAY HARNESS FOR BEAST DRIVING LIGHTS

TO SUIT MAZDA BT-50 3RD GEN
& ISUZU D-MAX 3RD GEN

The LightFORCE logo is displayed in a stylized, italicized black font. A solid yellow horizontal bar is positioned above the "Light" portion of the logo. The background of the bottom section of the page features faint, light gray line art of a vehicle's front end, including the hood and headlights.

LightFORCE®

DIY HARNESS INSTALLATION KIT CONTENTS

Part Number: LFDLHBEAST-MBT50

- 1 x Driving Light Harness
- 1 x Lightforce BT50 Patch Harness
- 1 x BEAST Smart Rocker Switch
- 1 x Smart Rocker Switch DC3 Adaptor
- 1 x M6x20 Bolt for relay mounting
- 2 x M6 Washer for relay mounting
- 1 x M6 Nylock nut for relay mounting
- 1 x Micro2 fuse tap
- 10 x Cable ties
- User instructions Via QR code

TOOLS AND CONSUMABLES REQUIRED

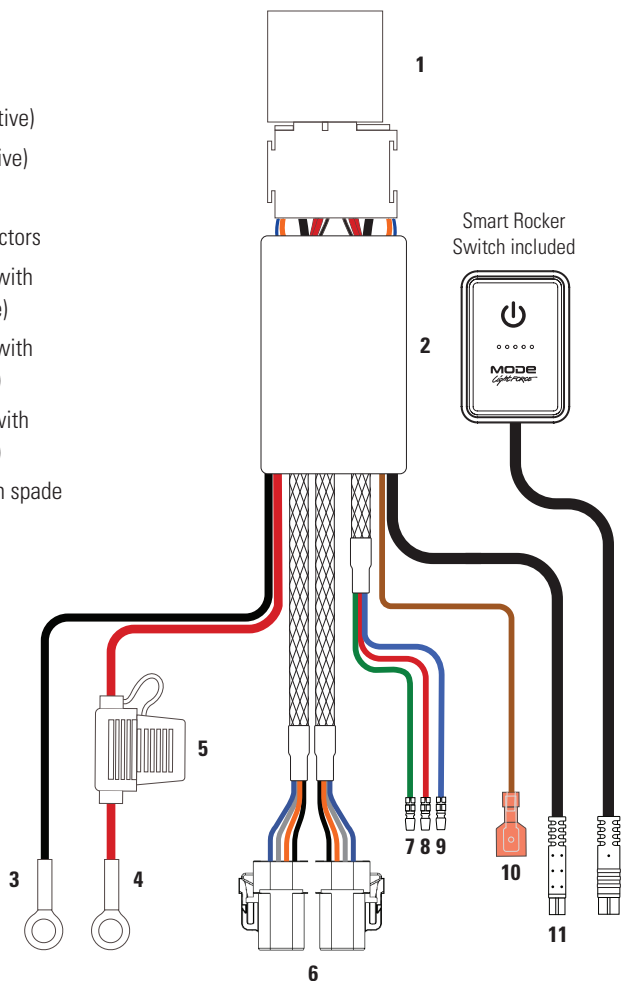
- 13mm & 17mm Sockets with ratchet
- 10mm & 12mm Spanners
- 4mm Allen Key
- Wire cutters
- Torch (recommended)
- Torque wrench (recommended)
- Needle nose pliers

PERSONAL SAFETY WARNING

High intensity light source. Do not look directly into the light during operation, eye injury may result.

Fig 1. Driving Light Harness

1. 40 amp relay
2. Insulated sleeved wires
3. Battery connector (negative)
4. Battery connector (positive)
5. 40 amp fuse
6. 4 pin driving light connectors
7. High beam pickup wire with bullet terminal (negative)
8. High beam pickup wire with bullet terminal (positive)
9. Low beam pickup wire with bullet terminal (positive)
10. Ignition pickup wire with spade terminal (positive)
11. Dashboard switch loom connector



STEP 1. MOUNT THE LIGHTS

1. Locate a suitable mounting position to install the driving lights.
2. Remove the nyloc nut and M10 washer from M10 x 35mm bolt attached to the bottom of mounting bracket.
3. Locate the bracket in a suitable position using the M10 x 35mm bolt. It is recommended that the base area of the mounting bracket is totally supported.
4. Align the light to preferred driving position.
5. Fit the washer and M10 nyloc nut, then tighten using a 17mm socket and ratchet to specified torque (35Nm). **Do not use rattle guns.**
6. Tighten 2 x M10 x 35 side bolts to recommended torque (35Nm).

STEP 2. WIRING HARNESS INSTALLATION

1. Remove the main ground wire from the negative battery terminal. **WARNING:** This may result in loss of radio security code and clock settings. Please consult your owner's manual before disconnecting.
2. Position the wiring harness as follows (Fig. 2):
 - A. Route the driving light connectors down towards the front grille cavity.
 - B. Mount the 40-amp relay (Fig. 3) to the vehicle on the left side of the radiator shroud as shown below. Fasten the relay in place with the supplied M6 hardware (Fig. 4) using 4mm Allen key and 13mm socket (Torque 6Nm). Ensure that the red (positive) and black (negative) ring terminals reach the appropriate battery terminals. Route the headlight patch by the rear of the passenger side headlamp, just below the relay mount.
 - C. Route the 8-pin loom to switch connector towards the firewall.
 - D. Place the power ring terminal by the positive terminal on the battery.
 - E. Place the ground ring terminal by the negative terminal on the battery.

(DO NOT CONNECT THE TERMINALS TO THE BATTERY AT THIS STAGE.)

Note: Ensure that cables do not touch the radiator or come in contact with any sharp edges.

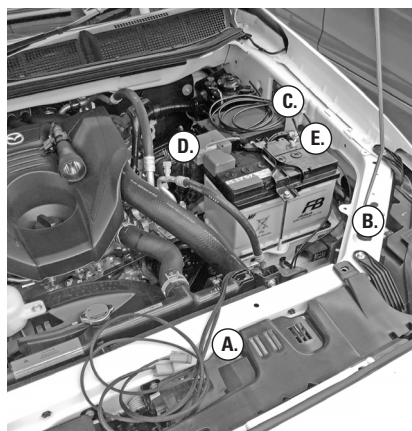
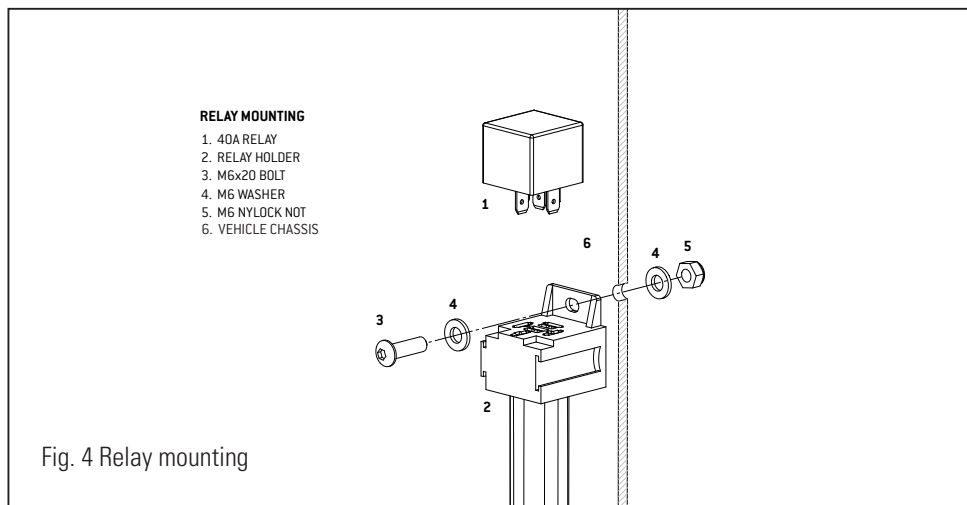


Fig. 2 Harness layout



Fig. 3 Relay mounting location



STEP 3. HIGH & LOW BEAM CONNECTION

Use the Lightforce dedicated patch harness (included) to connect to your vehicles high beam circuit. To install the Lightforce patch harness, remove the existing factory six pin connector from the back of the left hand side headlight. There is a locking tab that must be depressed before removing the connector (see Fig. 5).

Connect the corresponding connector from the Lightforce patch harness to the rear of the head light and the other end to the factory wiring harness as shown in Fig. 5. Connect the red, green and blue wires to the corresponding bullet terminals on the wiring harness (items 7, 8 and 9 on Fig. 1).

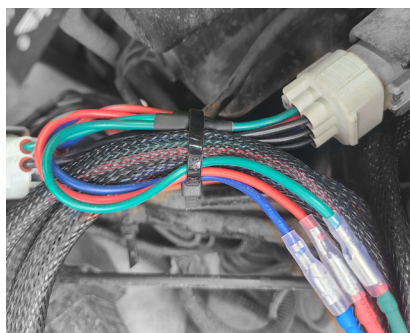


Fig. 5 Patch harness connection

STEP 4. ROUTE THE DASHBOARD SWITCH LOOM

1. Route the dashboard switch loom connector into the cabin of the vehicle (through the vehicle firewall) to the lower right hand side switch location.

Note: A torch will help you to see what you are doing. Ensure the wires are kept away from any heat sources.

2. Remove the switch blank from the desired location and feed the switch loom through this opening. (Fig. 6)

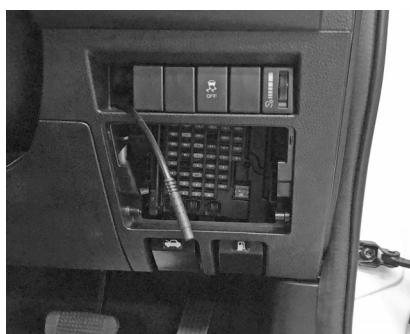


Fig. 6 Switch loom routing

STEP 5. SWITCH ASSEMBLY

This kit includes a smart rocker switch for controlling the lights. This switch is mounted inside the vehicle and allows the driver to activate the driving lights and also toggle the 3 modes; spot, flood and Beast. See step 10 for full operation instructions.

DC3 Interface Assembly (Fig. 7)

1. To assemble, route the switch wiring through the opening in the DC3 attachment then connect the Smart Rocker Switch to the supplied DC3 attachment.
2. Connect the dashboard switch loom connector on the driving light harness (through the switch opening as shown in step 4 (Fig. 6) to the Smart Rocker Switch loom (Fig. 8).
3. Evenly press the switch into the switch location until an audible click is heard to secure the switch. (Fig. 9)

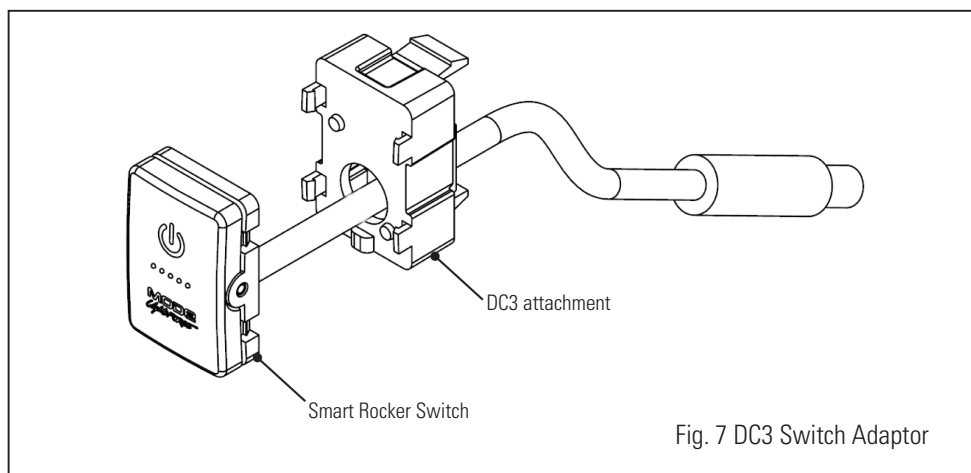


Fig. 8 Dash loom connection



Fig. 9 Switch installation

STEP 6. CONNECT TO IGNITION FOR POSITIONING LIGHTS

Using the supplied fuse tap, connect the brown wire (item 10, Fig. 1) to a suitable ignition source via the passenger footwell fuse box. Lightforce recommends selecting a non-critical source with a 10A or less fuse, see Fig. 10. Using needle nose pliers, crimp the brown ignition pickup wire to the crimp attached to the end of the fuse tap (Fig. 11).

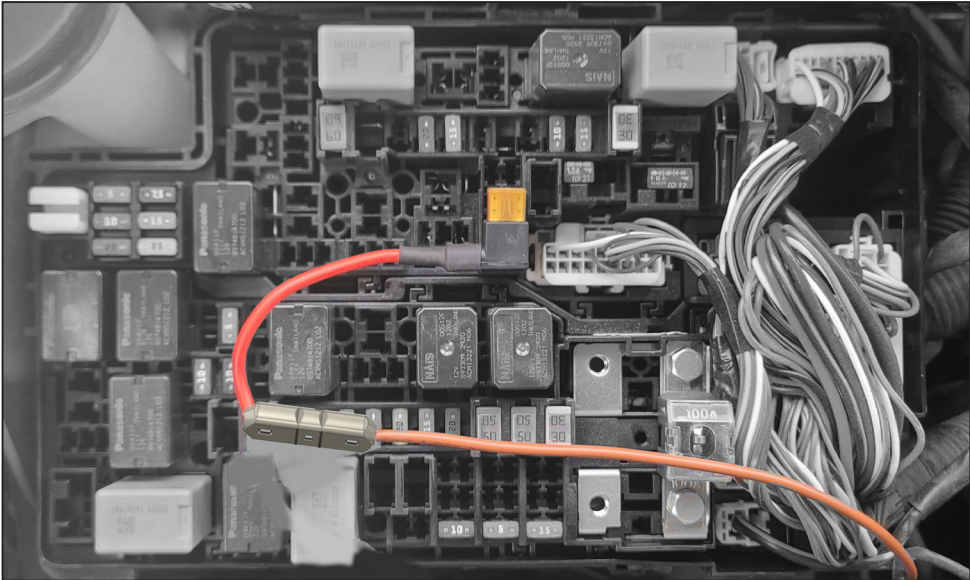


Fig. 10 BT50 Fuse box. Fuse tap installation

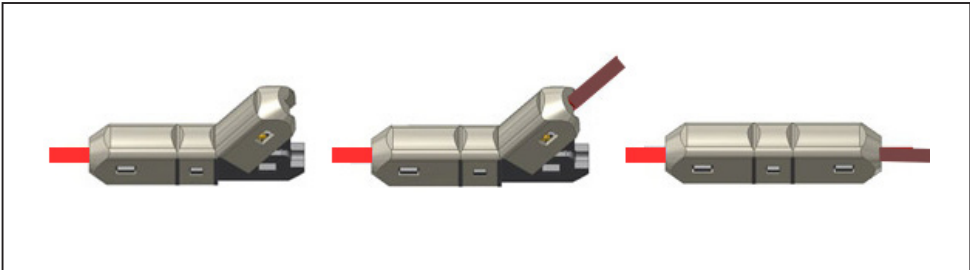


Fig. 11 Crimp process

NOTE If you do not wish to enable Daytime running light function (DRL), do not connect the brown wire to an ignition source. Insulate and secure this wire in a suitable location.

STEP 7. CONNECT TO THE DRIVING LIGHTS

- 1. Pass the 2x 4-pin driving light connectors (Fig 1 item 6) through into the front grille cavity. Pass one connector for each light through the opening in the front grille closest to the BEAST driving lights.
- 2. Insert the connector into the bulkhead on the rear of the light, ensuring an audible 'click' is heard to confirm the light is fully connected.
- 3. Secure all cables with the provided cable ties, ensure that cables do not touch the radiator or come in contact with any sharp edges.

STEP 8. CONNECT TO THE BATTERY

- 1. Connect the ring on the red wired battery connector to the positive battery terminal using a spanner
- 2. Connect the ring on the black wired battery connector to the negative battery terminal using a spanner.

STEP 9. SECURE CABLES

Use the supplied cable ties to secure all loose cables and remove excess with wire cutters.

STEP 10. HARNESS OPERATION

The smart rocker switch allows selection of the 3 modes available in the BEAST driving light.

The smart rocker switch has the following functionality (Fig. 12). The top button switches the lighting kit on/off. The bottom button is a mode select button that toggles between the 3 modes:

Mode select - Short press

A quick press of the mode button will toggle the BEAST lights between SPOT and FLOOD mode.

Mode select - Long press

A long press will activate BEAST mode.
Note: while in BEAST mode, a short press will return to SPOT mode.

Resync Process - Long press

Important: For BEAST driving light installations where more than one light is installed, it is possible for lights to be out of sync. To resync driving lights, long press the mode select button.

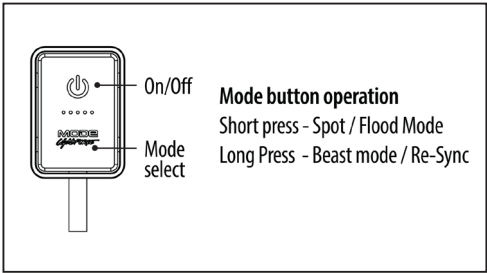


Fig. 12 Switch Operation

BEAST smart rocker switch specification	
Input voltage	10-16 V
Output current	0.3A (per output)

NOTES

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WARRANTY CONDITIONS FOR AUSTRALIA

“Lightforce” means Lightforce Australia Pty Ltd
ABN 54 069 439 774 Address: 11 Manton Street,
Hindmarsh, SA, 5007. Telephone: +61 8 8440 0888.
Email Address: sales@lightforce.com

“Lightforce Affiliates” means Lightforce, Lightforce related bodies corporate (within the meaning of the Corporations Act 2001), and their respective employees, officers, agents, and contractors.

“Warranty Period” means:

Lightforce products claimed for repair or replacement under the conditions of a defect in materials or workmanship within normal use and conditions, are valid for the time period of five (5) years from the date of purchase; except accessories, switches, made-to-order items, custom built items, brackets, fascia and harness, bulbs, batteries and mounts which is one (1) year from the original date of purchase specified on your sales receipt or invoice.

Only Lightforce products and parts which remain unaltered from their factory supplied design are eligible for warranty. Modifications made to the product, any collision or impact damage of any kind, product tampered in any manner, including poor installation will void warranty.

REPAIR OR REPLACEMENT OF A PRODUCT OR PARTS:

A replacement product or part is warranted for the balance of the period remaining on the original product contract. A warranty replacement/repair does not constitute a new warranty period of (5) years or (1) year whichever is the correct warranty period. Products and parts presented for repair or replacement may be replaced by products of the same type, or superseding designs.

Goods presented for repair may be replaced by refurbished goods of the same type rather than being repaired. Refurbished parts may be used to repair the goods.

MAKING A CLAIM:

Under this warranty and unless Lightforce otherwise agrees in writing, you bear the cost of claiming under this warranty, Lightforce will however, bear the reasonable cost of transporting the product to Lightforce and returning the product to you.

Lightforce must assess warranty claims before a claim can be granted unless otherwise arranged for and by Lightforce.

To make a claim you will need;

- The receipt of purchase or similar proof AND
- The product being claimed for AND
- Have registered the claim with Lightforce by;

Calling **1800 03 03 08** and speaking with a warranty support officer OR

By emailing **support@lightforce.com**

A support officer will raise a case number and provide you with any necessary labelling and freight paperwork to process the claim.

USE OF PERSONAL INFORMATION:

This warranty will not apply if you do not supply to us or to our Lightforce Affiliates information that we reasonably request to enable us to perform our obligations under this warranty. You have the right to access your personal contact information and request correction of any errors in it pursuant to the Privacy Act 1988 by contacting Lightforce.

STATUTORY RIGHTS:

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

LIMITATION OF LIABILITY:

1. Where permitted, or not prohibited, under any law, including under the Australian Consumer Law, Lightforce and Lightforce Affiliates' liability in respect of any defect in materials or workmanship or in respect of a product which is not otherwise of acceptable quality (within the meaning of the Australian Consumer Law), is limited at the option of Lightforce, to:
 - a. The replacement or repair of the product,
 - b. The payment of the cost of replacing or repairing the product; or
 - c. The payment of the cost of acquiring an equivalent product.
2. Accordingly, to the extent permitted or not prohibited under any law (including the Australian Consumer Law):
 - a. neither Lightforce nor any Lightforce Affiliates are liable under any circumstances (including in contract, negligence or other tort, or under any other legal doctrine) for third party claims against you for damages; special, incidental, punitive, indirect or consequential damages, including but not limited to lost profits, business revenue, goodwill or anticipated savings; and
 - b. in no case does the total liability of Lightforce, Lightforce Affiliates, or their respective suppliers, resellers or service providers to any person for damages from any cause (including in contract, negligence or other tort, or under any other legal doctrine), in connection with the supply of a product exceed the lesser of the actual direct damages of that person and the amount paid for the product by that person.

The foregoing limitations do not apply to damages for bodily injury (including death), damage to real property or damage to tangible personal property for which Lightforce is liable under any non-excludable law.



For warranty information and to register your product for warranty purposes, visit lightforce.com/warranty

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