



USER INSTRUCTIONS

PLUG & PLAY HARNESS FOR BEAST DRIVING LIGHTS

TO SUIT TOYOTA HILUX WITH BI LED HEADLIGHTS
2020 TO CURRENT – SR5, RUGGED X, ROGUE &
GR SPORT



LightFORCE®

TOYOTA HILUX WITH Bi LED HARNESS INSTALLATION KIT CONTENTS

- 1 x Driving Light Harness
- 1 x Lightforce Hilux Patch Harness
- 1 x BEAST Smart Rocker Switch
- 1 x Smart Rocker Switch TY2 Adaptor
- 1 x M6x20 Bolt
- 2 x M6 Washer
- 1 x M6 Nylock nut
- 1 x Low profile mini fuse tap
- 10 x Cable ties
- User instructions Via QR code.

TOOLS AND CONSUMABLES REQUIRED

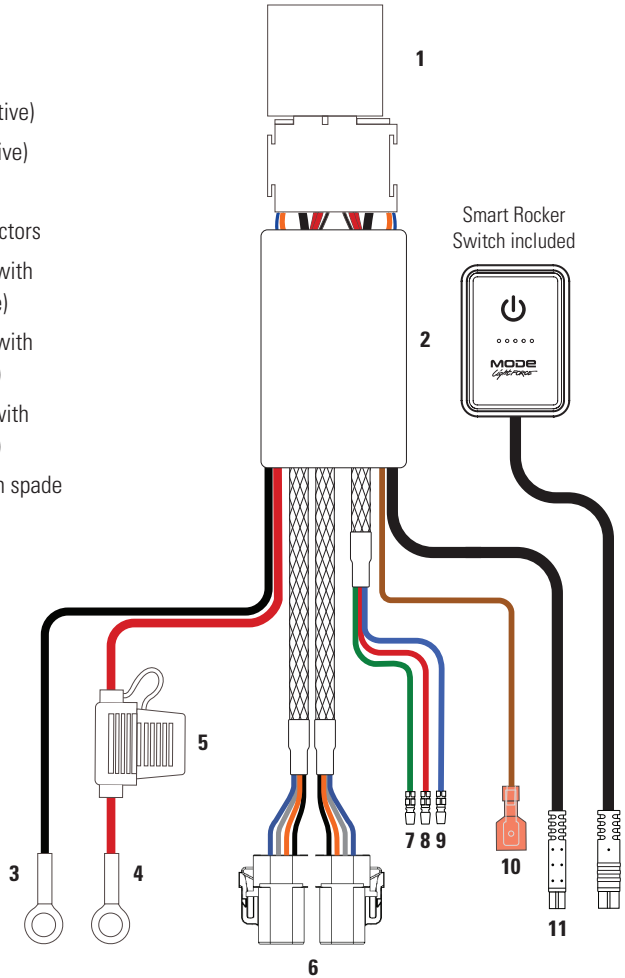
- 13mm & 17mm sockets with ratchet
- 10mm & 12mm spanners
- 4mm Allen Key
- Wire cutters
- Torch (recommended)
- Torque wrench (recommended)
- Needle nose pliers.

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

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.

Position the wiring harness as follows (Fig. 2):

1. Route the driving light connectors down towards the front grille cavity.
2. Position the 40-amp relay (Fig. 4) to the vehicle on the left side of the radiator shroud as shown below.
3. Route the headlight patch by the rear of the passenger side headlamp, just below the relay mount.
4. Place the power and ground ring terminal by the positive and negative terminals on the battery.
5. Route the 8-pin loom to switch connector towards the firewall.

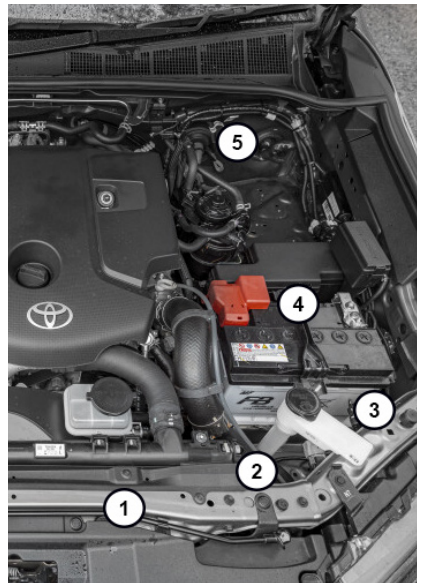


Fig. 2 Engine Bay

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.

STEP 3. RELAY MOUNTING

1. Remove the upper radiator cover by releasing the 8 clips circled in red (Fig. 3). To release the clips, apply pressure to the center until it depresses and then lift the outer edge.
2. Locate the 6mm hole on the passenger side of the radiator (Fig. 4).
3. Fasten the relay in place with the supplied M6 hardware (Fig. 5 & 6) using 4mm Allen key and 13mm socket.

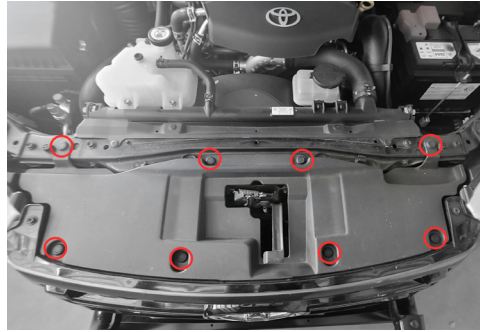


Fig. 3 Radiator Cover

Note: This is a good time to route 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. Secure all cables with the provided cable ties, ensure that cables do not touch the radiator or come in contact with any sharp edges.

4. Reinstall the upper radiator cover and insert the 8 clips as highlighted in red (Fig. 3).



Fig. 4 Relay Mounting Location

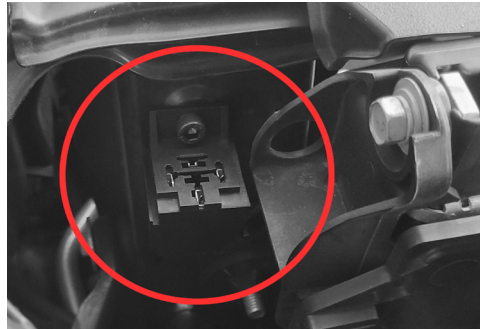
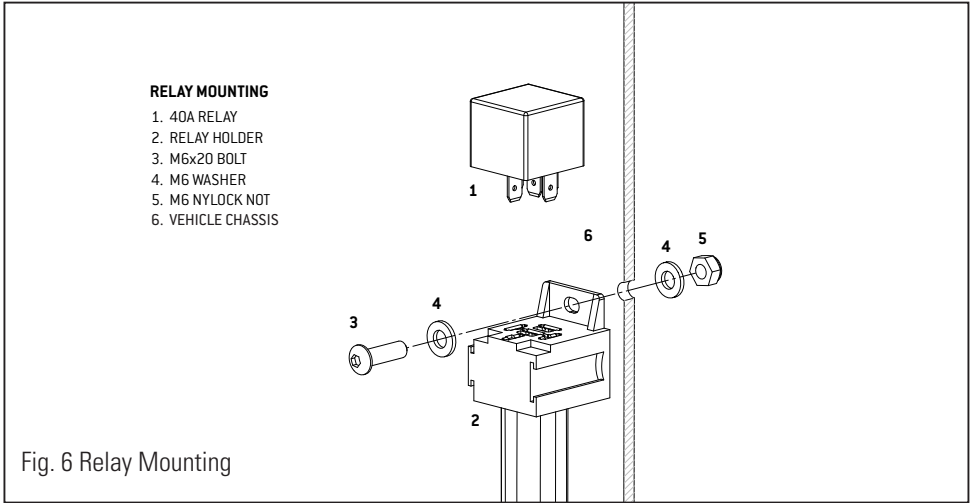


Fig. 5 Relay Mount Front



STEP 4. HIGH & LOW BEAM CONNECTION

Use the Lightforce dedicated patch harness (included) to connect to your vehicles high beam circuit.

Note: To gain access to the headlight connector, remove the windscreen washer filler neck by squeezing together the two tabs circled in figure 7.

To install the Lightforce Patch Harness, remove the existing factory headlight 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. 8 & 9 on the following page).

Connect the corresponding connector from the Lightforce dedicated patch harness to the headlight connector and the other end to the factory wiring harness as shown in Fig. 10. 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. 11).



Fig. 7 Windscreen washer filler neck

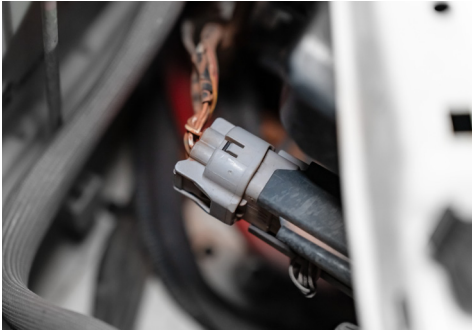


Fig. 8 Headlight Connector plugged in



Fig. 9 HB Connector

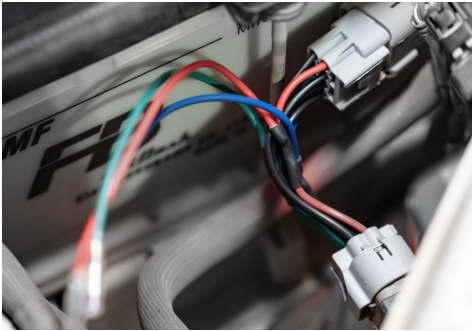


Fig. 10 Connect Patch Harness

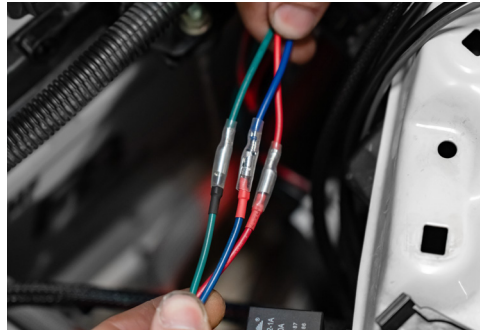


Fig. 11 Connect The Pickup Wires

STEP 5. ROUTE THE DASHBOARD SWITCH LOOM & IGNITION PICKUP WIRE

1. Route the dashboard switch loom connector and ignition pickup wire (Item 10 & 11 Fig. 1) into the cabin of the vehicle through the vehicle firewall, it is recommended to use the factory grommet (Fig. 12 on the following page).
2. Position the ignition pickup wire in the left side of the passenger footwell, this will be used in step 6.
3. Route the dashboard switch loom connector to the lower right hand side switch location. A torch will help you to see what you are doing. Ensure the wires are kept away from any heat sources or moving parts.
4. Remove the switch blank from the desired location and feed the switch loom through this opening (Fig. 13 on the following page).

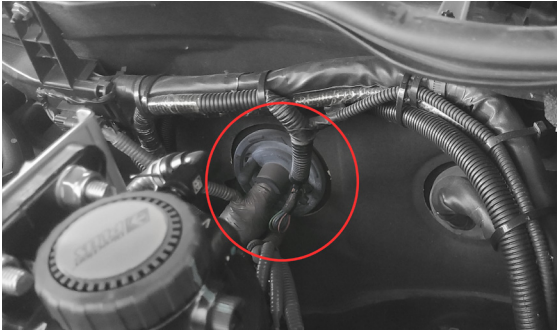


Fig. 12 Firewall passthrough



Fig. 13 Dash Passthrough

STEP 6. 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.

TY2 Interface Assembly

1. To assemble, route the switch wiring through the opening in the TY2 attachment then connect the Smart Rocker Switch to the supplied TY2 attachment (Fig. 14).
2. Connect the dashboard switch loom connector on the driving light harness (see item 11 in figure 1) to the Smart Rocker Switch loom and insert switch into the dashboard location (Fig. 15 & 16).

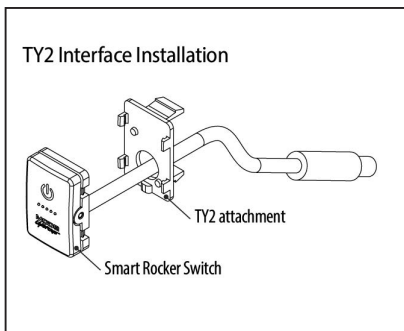


Fig. 14 TY2 Interface Installation



Fig. 15 Switch Icon

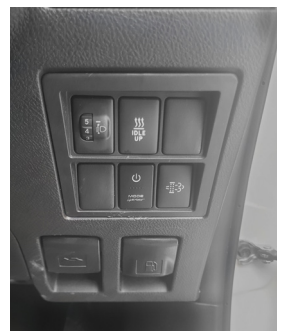


Fig. 16 Switch Installation

STEP 7. CONNECT TO IGNITION FOR POSITIONING LIGHTS

1. 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 such as no. 17 (Fig. 18). Using needle nose pliers, crimp the brown ignition pickup wire to the crimp attached to the end of the fuse tap (Fig. 19)
2. Access this fuse box by removing the trim piece below the glove box. Depress the 4 clips on the front edge of this panel and slide the panel away from the fire wall, set the trim piece aside. The passenger fuse box is located behind this trim panel on the left most side (Fig. 17). Remove the cover of the fuse box, this will not be refitted so it should be stored in a safe location such as the glovebox.

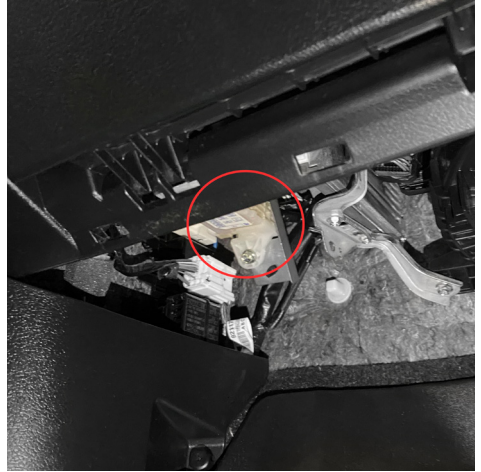


Fig. 17 Interior Fuse Box Location

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.

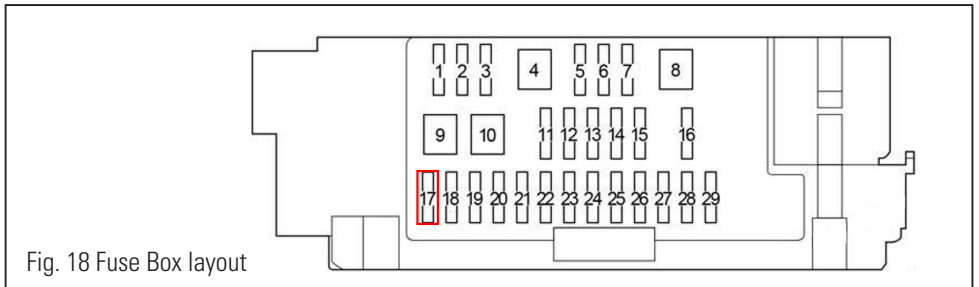


Fig. 18 Fuse Box layout

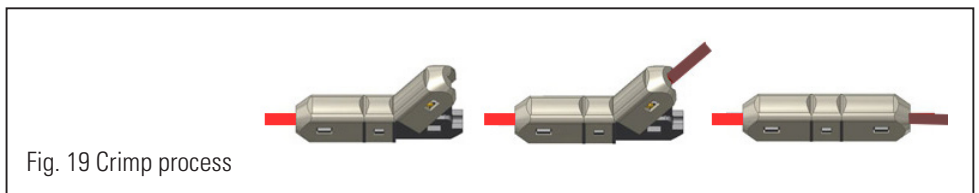


Fig. 19 Crimp process

STEP 8. CONNECT TO THE DRIVING LIGHTS

1. If not done in step 3.3, 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 9. 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 10. SECURE CABLES

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

STEP 11. 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. 20). 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.

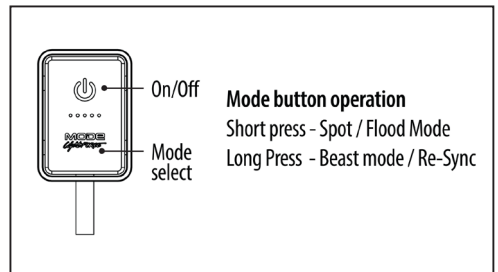


Fig. 20 Switch Operation

BEAST smart rocker switch specification

| | |
|-----------------------|-------------------|
| Input voltage | 10-16 V |
| Output current | 0.3A (per output) |

WARRANTY CONDITIONS FOR AUSTRALIA

“Lightforce” means Lightforce Australia Pty Ltd
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“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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