

USER INSTRUCTIONS

**TRIPLE SWITCHING HARNESS
FOR GENESIS AND VENOM LED
DRIVING LIGHTS.**



LightFORCE®

DIY HARNESS INSTALLATION KIT CONTENTS

- 1 x Driving light harness
- 1 x HB3 patch harness
- 1 x H4 patch harness
- 1 x Switch loom (dual switches)
- 1 x Screw for relay installation
- 2 x T-taps for wires (2 sizes)
- 4 x Spade terminals (2 sizes)
- 15 x Cable ties
- 1 x User instructions.

TOOLS AND CONSUMABLES REQUIRED

- Spanner
- Pointy nose pliers
- Wire cutters
- Phillips head driver bit
- Flashlight (recommended)
- Torque wrench (recommended).

TOOL REQUIRED FOR NON-STANDARD INSTALLATIONS

- Crimping tool.

PERSONAL SAFETY WARNING

WARNING: High intensity light source.

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

Visit lightforce.com/installations to view instructional videos.

NOTE: If you are using a different switch with dash illumination (not included), a Lightforce Switch Adaptor (not included, see Figure 9) will be required. Follow the instructions included with the Lightforce Switch Adaptor. The yellow dash illumination cable (item 10 in figure 1) will need to be wired to the dash light / park light.

Fig 1. Driving Light Harness

1. 40 Amp Relay
2. Driving light 4 pin connectors
3. Battery negative ring terminal
4. Battery positive ring terminal
5. Ignition pickup wire
6. Low beam pickup wire with bullet terminal (positive)
7. High beam pickup wire with bullet terminal (negative)
8. High beam pickup wire with bullet terminal (positive)
9. Dashboard switch loom connector
10. Dash illumination cable (fitment optional).

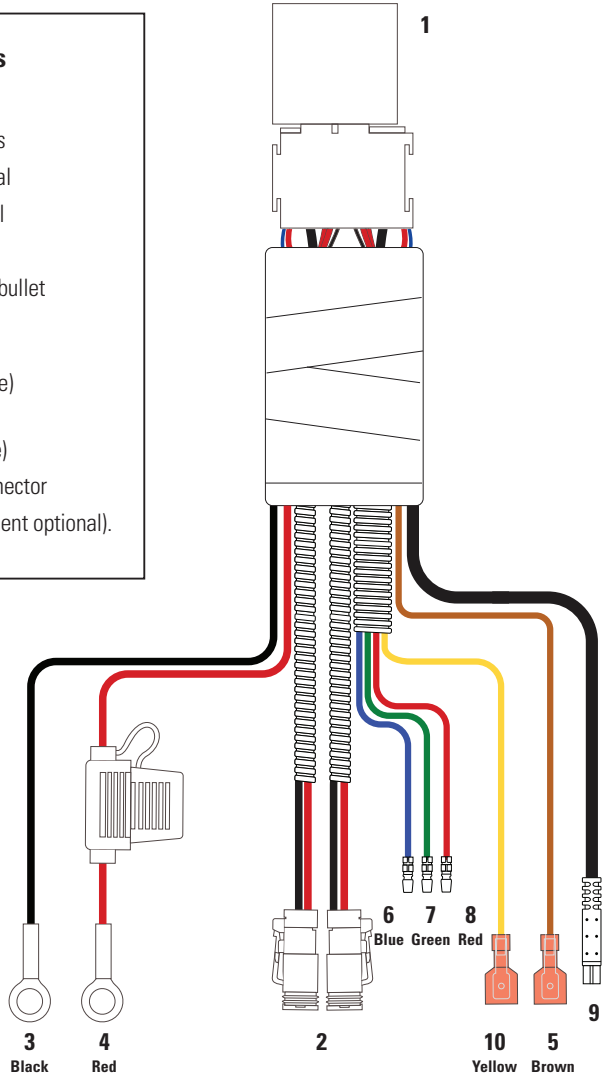


Fig 2. Screw for fixing relay



Fig 3. Connectors for non-standard installations.



T-taps for wires



Insulated male spade terminals

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).

WIRING HARNESS INSTALLATION

STEP 2. INSTALL THE RELAY AND CONNECT THE LIGHTS

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. Mount the 40 amp relay (see figure 1) in a suitable place within the engine bay, using the screw supplied (see figure 2) and your drill with a Phillips head driver bit. Ensure that the red (positive) and black (negative) ring terminals reach the appropriate battery terminals.
3. **DO NOT CONNECT TERMINALS TO THE BATTERY AT THIS STAGE.**
4. Route the insulated sleeved wires that run from the relay to the driving light connectors to each of your installed driving lights and connect the driving light connectors to the back of each light. Ensure that cables do not touch the radiator or come in contact with any sharp edges.

STEP 3. FULL INTENSITY MODE ONLY

1. Select the HB3 or H4 patch harness (refer to your vehicle's owner's manual and figures 4 and 5 below to determine which is correct) and connect it to a headlight connector on your vehicle. If your headlights are a type other than HB3 or H4, see item 3 below.
2. Connect the high beam pickup wires on the driving light harness to the patch harness, red to red, green to green.
3. **NOTE:** if you are installing into a vehicle with headlights that are NOT HB3 or H4, you will need to remove the bullet terminals on the red and green high beam pickup wires on the driving light harness (see figure 1) and crimp each wire into a blue insulated male spade terminal using a crimping tool. Then clamp the provided t-taps to the high beam positive and negative wires on one of the vehicle's headlights. Use the red or blue t-taps depending on the wire diameter. Finally, connect the blue insulated male spade terminals into the t-taps on the harness.

Fig 4. HB3 patch harness

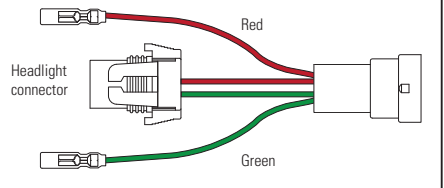
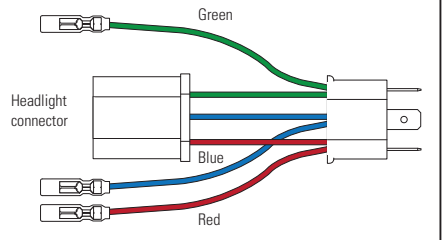


Fig 5. H4 patch harness

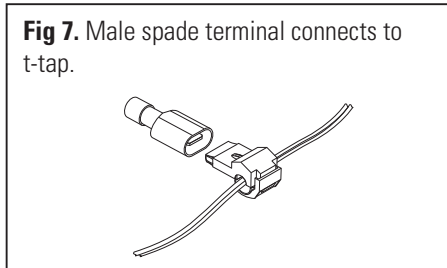
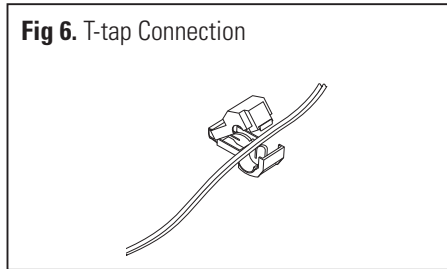


OPTIONAL STEP 3. CONNECT TO IGNITION WIRE FOR POSITIONING LIGHTS

You have the option to enable slight illumination of your LED Driving Lights in the daytime when the ignition is on. This step can be omitted if daytime positioning lights are not required.

1. Locate the ignition signal wire in your vehicle and connect to the spade terminal brown wire (item 5 in figure 1).

NOTE: Ensure the ignition voltage is over 10 volts.



OPTIONAL STEP 4. CONNECT TO LOW BEAM PICKUP FOR NIGHT TIME RUNNING LIGHTS

You also have the option to enable partial illumination of your LED Driving Lights at night when your headlights are switched on to low beam. This step can be omitted if night time running lights are not required.

For H4: Connect the blue wire (item 6 in figure 1), on the H4 patch harness to the blue wire on the main harness.

For HB3: Using a multi-meter or test light locate the low beam positive wire located on the back of the headlight and fit the supplied t-tap over the bow beam positive wire. (see figure 6 and figure 7)

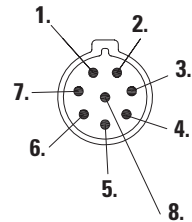
Two sizes of t-tap connectors are supplied in the kit, the purple one suits small gauge wires 0.5-1.0mm², the blue one is for heavy gauge wires 1.5-2.5mm².

For HB3 and all other configurations (excluding H4) cut off the existing bullet terminal on the end of the blue wire (item 6 in figure 1) on the main harness, strip 5mm of insulation off the end and crimp one of the supplied red insulated male spade terminals.

Connect the male spade terminal to the t-tap connector ensuring it is fully inserted.

Fig 8. 8 Pin connector wiring diagram (switches side)

1	Yellow	Dash Illumination (from park lights)
2	Black	Negative
3	Blue	Switch to Output - to relay trigger
4	Red	Switch 2 Input - from high beam positive
5	White	Switch 1 Output - driving lights
6	Green	Switch 1 Input - from vehicle ignition
7	Not Used	N/A
8	Not Used	N/A



STEP 5. INSTALL THE DASH SWITCHES

1. Find a suitable place on the dash to mount the dash switches.
2. Affix dash switches by removing the adhesive from the rear of the switches and attach to the desired location.
 - Switch 1 is for positioning lights
 - Switch 2 is for high beam.

STEP 6. CONNECT THE DASHBOARD SWITCH LOOM

1. Route the dashboard switch loom connector (on the driving light harness) carefully through the vehicle's firewall using pointy nose pliers to pull the cable through. A flashlight will help you to see what you are doing. Be careful to avoid crushing the connector. Ensure the wires are kept away from any heat sources
2. Connect the dashboard switch loom connector on the driving light harness (see item 1 in figure 1) to the dashboard switch loom (see figure 9). Note: The notch on the switch loom and wiring harness must be aligned.

If you are using a different switch with dash illumination (not included), connect the dash illumination cable (on the switch loom) to your switch, as directed by the user instructions for the switch.

If you are connecting the dashboard switch loom to a different Lightforce switch or switches, you can cut the wires on the dashboard switch loom and connect to the switch by referencing the wiring diagram in figure 8. Alternatively you can use the Lightforce Single Switch 8 Pin Harness Adaptor (SWADP5), sold separately, to attach the harness to a range of Lightforce dual switches.

STEP 7. 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.

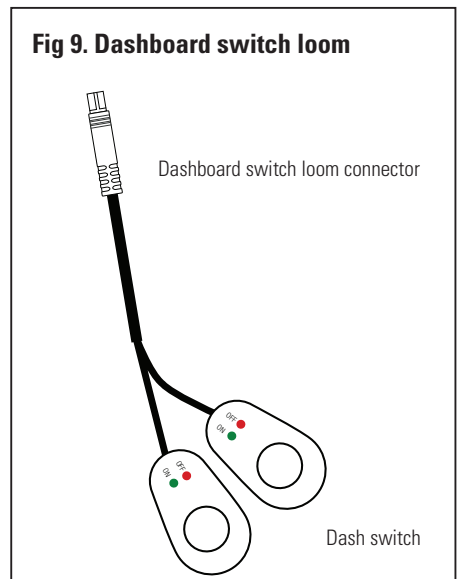
STEP 8. SECURE CABLES

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

STEP 9. TEST

1. With ignition on check the following functions:
 - The positioning light function is activating with the ignition switch, ensure the switch 1 is in the on position.
 - With vehicles low beam switch on, check that the positioning light function dim to become a night positioning light
 - With vehicles high beam switch, check that your spot lights only function when the high beam switch is on.

Fig 9. Dashboard switch loom



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

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