

# LAZER

H I G H P E R F O R M A N C E L I G H T I N G



## DEFENDER 2020+ EXPEDITION ROOF RACK MOUNTING KIT

---

FITTING INSTRUCTIONS

## TECHNICAL SUPPORT

sales@lazerlamps.com  
+44 (0)1992 677374

### WHAT'S INCLUDED

- 2x Linear Side Mounting Bracket (LH/RH)
- 2x M8 Rivnuts
- 2x M8 Bolts

### ALSO REQUIRED

- 1x Linear-36
- 1x One-Lamp Harness

### DIFFICULTY LEVEL



### TOOLS REQUIRED



SOCKET SET



ALLEN KEY SET



SPANNER SET



RIVNUT GUN



DRILL BIT

SWITCH HOLE - 20MM  
BRACKET HOLE - 12MM  
CABLE TIE HOLE - 3MM



PLASTIC TRIM TOOL SET



CENTRE PUNCH TOOL



RULER



WIRE CUTTERS



WIRE STRIPPERS AND RATCHET CRIMPERS



CABLE TIES

**PRE-INSTALLATION CHECKS**

Ensure battery is disconnected.

**INSTALLATION**



**STEP 1**

Remove the rubber trim to reveal the T30 security bolts.

Remove these T30 bolts (x1 left-hand side and x1 right-hand side).



**STEP 2**

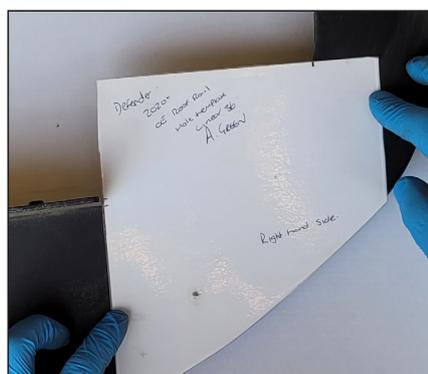
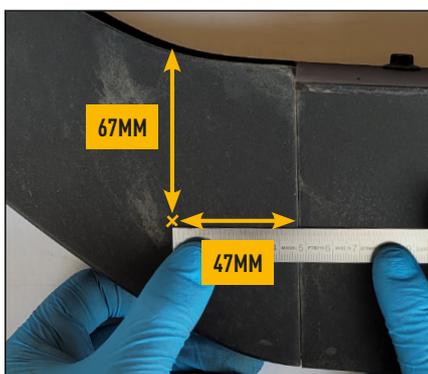
Slide the slat back to reveal the 8mm bolts.

Remove these 8mm bolts (x1 left-hand side and x1 right-hand side).



**STEP 3**

Slide the front of the rack off carefully.



**STEP 4**

Mark where to drill (both sides of the roof rack) using the measurements shown or, the paper templates that are supplied at the end of the instructions (please ensure Page Sizing / Scaling is set to Actual Size or 100% scale).

**INSTALLATION CONTINUED.**

**STEP 5**

Drill a 12mm hole where you have marked on both left and right sides of the roof rack.


**STEP 6**

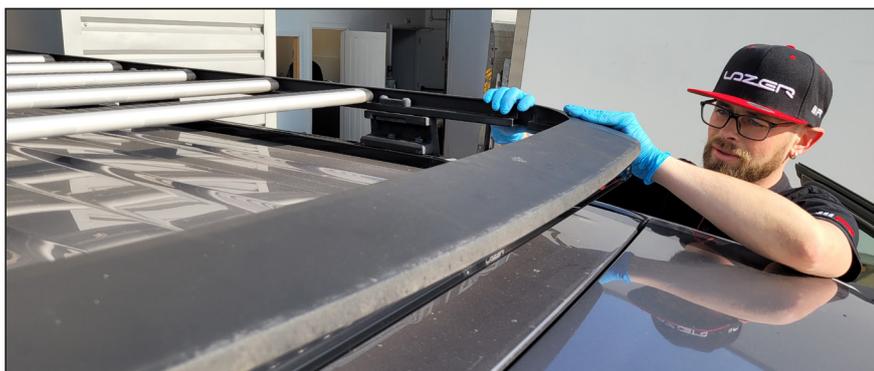
Install the supplied M8 rivnut into the drilled holes and tighten with a rivnut gun.


**STEP 7**

Assemble the linear side bracket and bolts as shown (Bolt, spring washer, washer) and install onto the roof rack.


**STEP 8**

Install the lamp onto the roof rack, using the security bolts included with the lamp.


**STEP 9**

Install the front of the roof rack back onto the car and bolt into place.

**INSTALLATION CONTINUED.**



**STEP 10**

Plug the 3m extension cable into the lamp and run the cable down to the vehicle roof.



**STEP 11**

Tidy the lamp plug by drilling a 3mm hole to cable tie the lamp plug.



**STEP 12**

Re-install the roof rack slat and run the cable in between the roof rail and the roof ditch.



**STEP 13**

Run the extension cable down to the engine bay by tucking the cable inside of the 'A' pillar trim.



**STEP 14**

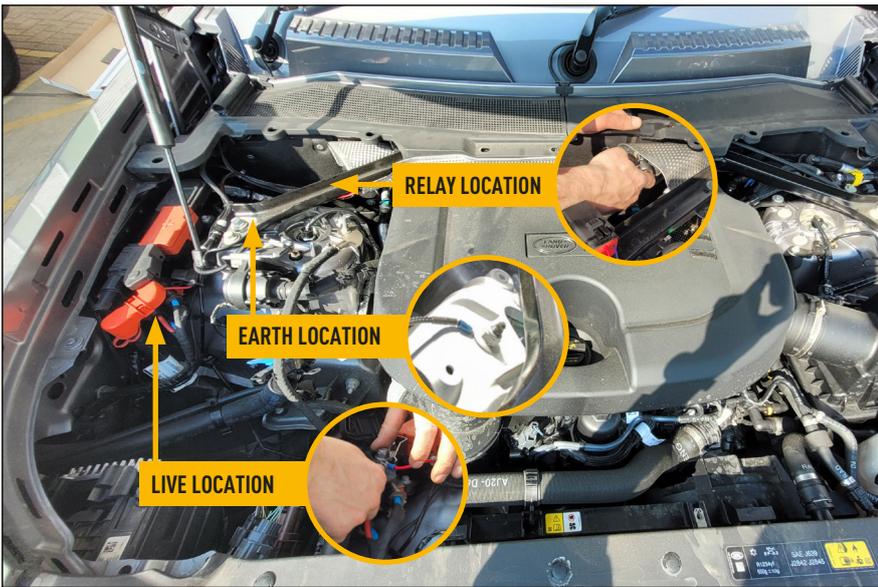
Remove all the screws holding the scuttle panel trim.

then, run extension cable across the scuttle.

**INSTALLATION CONTINUED.**

**STEP 15. LAZER WIRING KIT**

Mount the relay and connect the live and earth connections.



**STEP 15. WIRING WITH SWITCH**

Run the switch cable through the factory grommet.

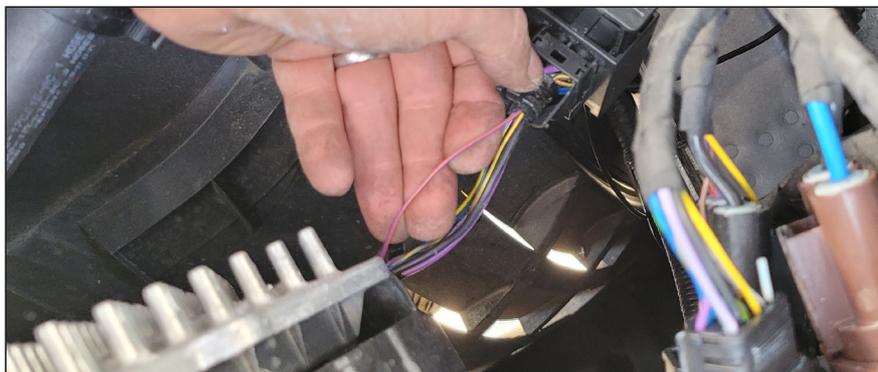
Drill a 20mm hole and install the switch.



**STEP 15. WIRING WITH SPLICE**

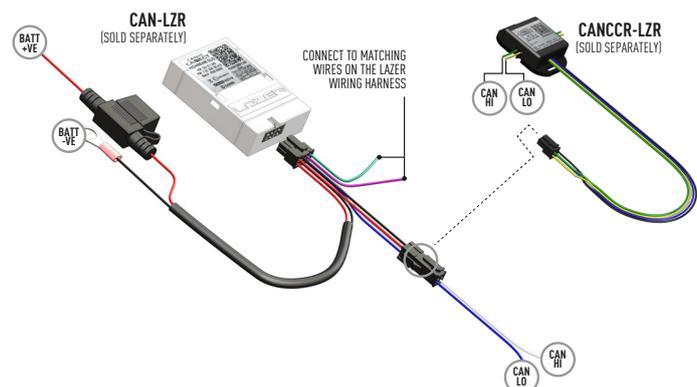
High beam trigger can be found on some models at the right hand side, headlight plug (Purple/Red wire).

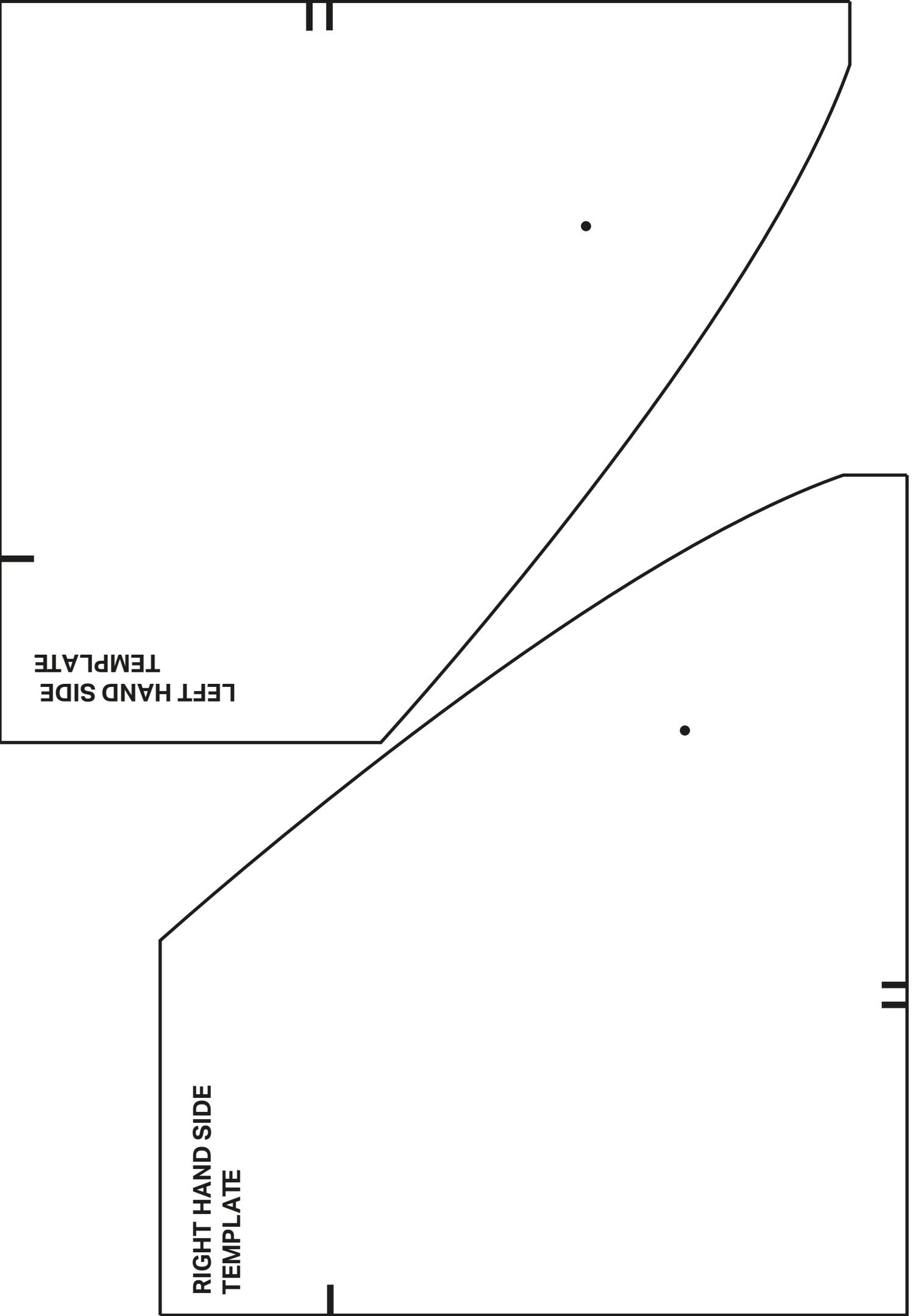
**Please test the wires for a 12V signal beforehand.**

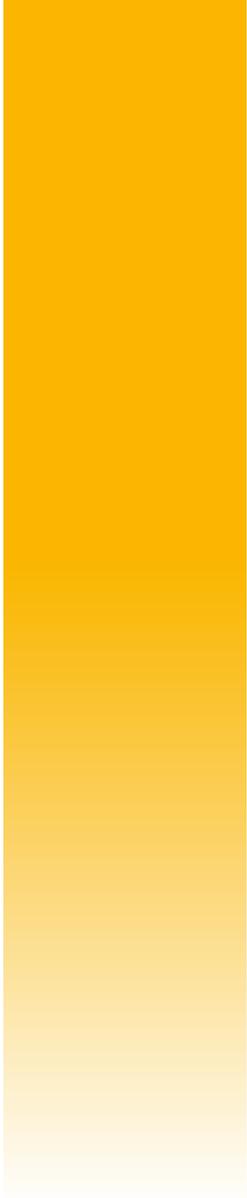


**CAN INFORMATION**

Where the vehicle has the LED Matrix headlight system as standard, it may not be possible to detect a 12V high beam signal. In these instances it will be necessary to complete the electrical installation using a Lazer CAN Interface. For vehicle specific CAN instructions, please download the "CANM8 Connect" App.







**LAZER**  
HIGH PERFORMANCE LIGHTING

[WWW.LAZERLAMPS.COM](http://WWW.LAZERLAMPS.COM)

+44 (0)1992 677374  
[sales@lazerlamps.com](mailto:sales@lazerlamps.com)

Lazer Lamps Ltd, Units 1&2 Harlow Mill Business Centre,  
Riverway, Harlow, Essex. CM20 2FD. United Kingdom



MADE IN THE UK



/LAZERLAMPS



/LAZERLAMPS