

# 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+ SENTINEL 9" MOUNTING KIT

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FITTING INSTRUCTIONS

## TECHNICAL SUPPORT

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## WHAT'S INCLUDED

- 2x Defender 2020+ - Sentinel Mounting Bracket (LH/RH)

## DIFFICULTY LEVEL



## TOOLS REQUIRED



SOCKET SET  
& EXTENSION



ALLEN KEY  
SET



SPANNER  
SET



RIVET  
GUN



DRILL BIT  
SWITCH HOLE - 20MM  
RIVET HOLE - 5MM  
STAY BAR - 3MM



PLASTIC TRIM  
TOOL SET



RULER



WIRE  
CUTTERS



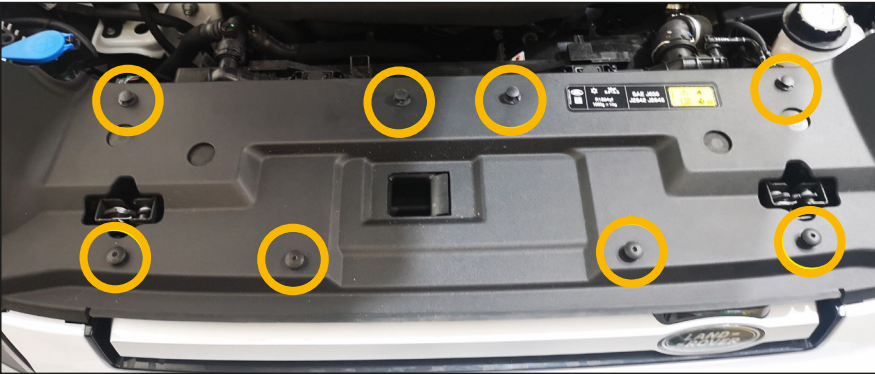
WIRE STRIPPERS  
AND RATCHET CRIMPERS



## PRE-INSTALLATION CHECKS

Ensure battery is disconnected.

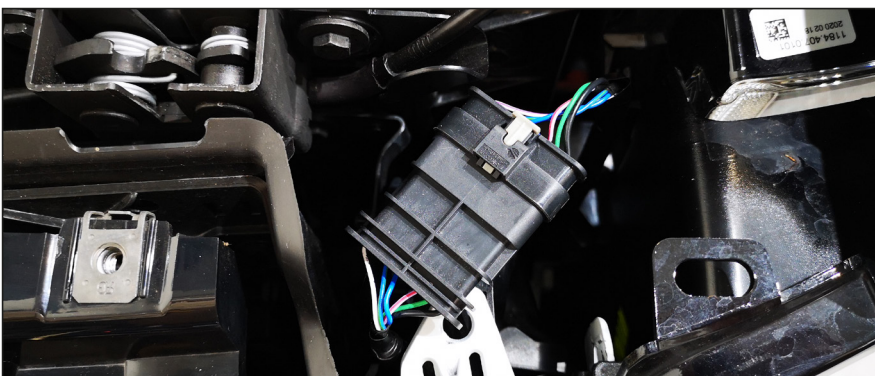
## INSTALLATION



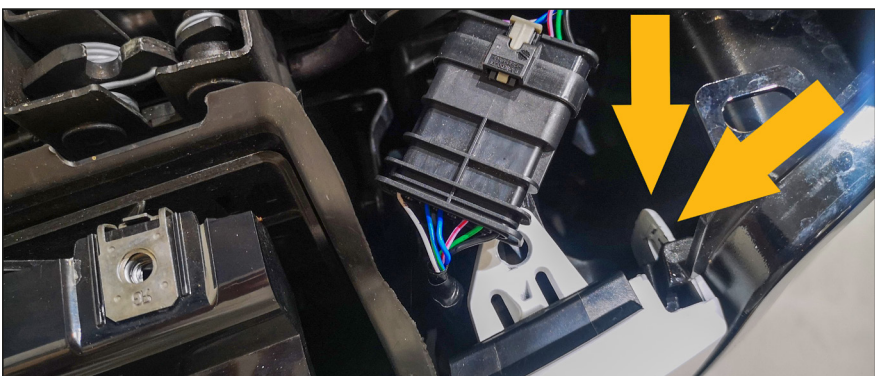
**STEP 1**  
Remove 4 trim clips and 4 screws from slam panel cover.



**STEP 2**  
Remove slam panel cover to access front grille.



**STEP 3**  
Unplug the radar sensor (do not turn ignition on while this is unplugged).



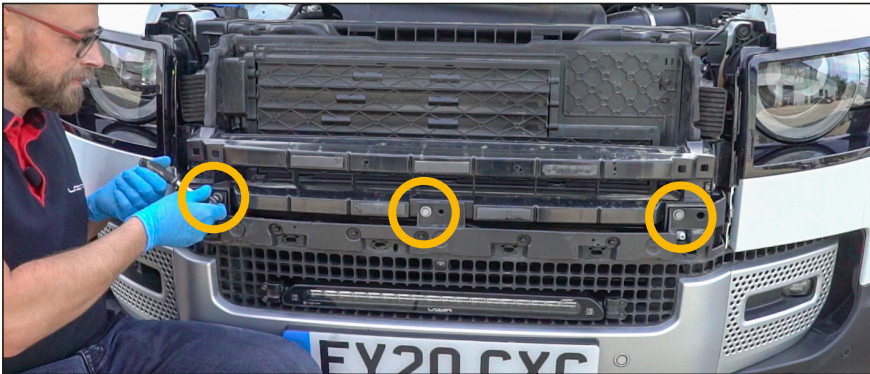
**STEP 4**  
Locate and undo the 4x latches that hold in the top of the grille. 2x at the top and 2x at the bottom.



**INSTALLATION CONTINUED.**

**STEP 5**

Loosen the front grille surround with a plastic trim tool and remove the grille.


**STEP 6**

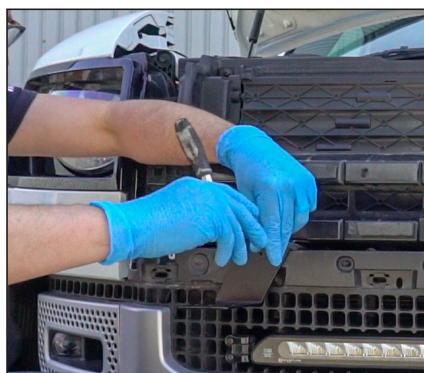
Remove the 3x 10mm bolts shown to get access to the hidden bolts behind.


**STEP 7**

Locate the hidden bolts (2 each side of the vehicle and remove (you will need to use an extension tool).


**STEP 8**

Position the mounting brackets in place by aligning the holes in the bracket with where you have just removed the bolts.


**STEP 9**

Secure the brackets to the vehicle using the included washers and bolts as shown.



**INSTALLATION CONTINUED.**

**STEP 10**

Drill a 5mm hole where shown on the each bracket for the supplied rivets.

Please note: There is a factory wiring loom running very close to this area, please be extra careful when drilling.

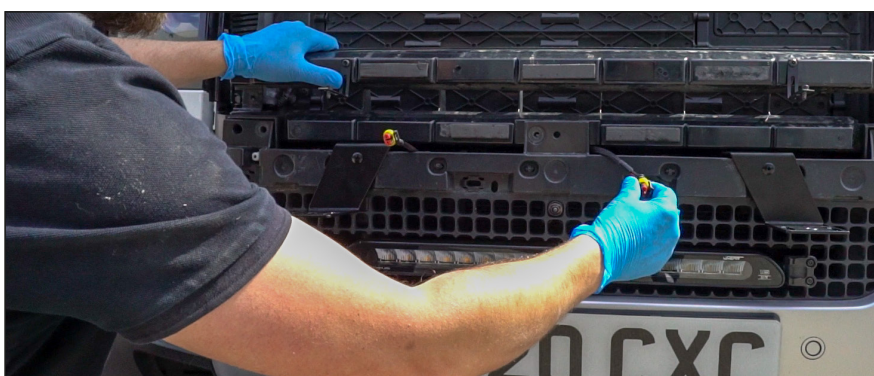

**STEP 11**

Using the supplied rivets, secure the bracket.


**STEP 12**

Mark 100mm from the side of the trim, and drill a 3mm hole and install the stay bar kit (each side/lamp)

NOTE: The stay bar will need to be cut down to 155mm and bent at 50mm to a right angle.


**STEP 13**

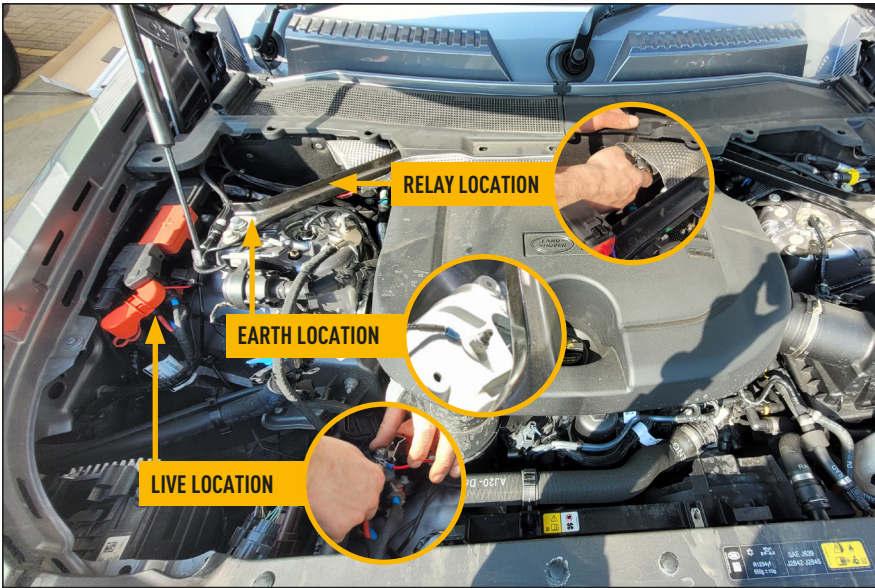
Before you re-fit the vehicle grille, we recommend you prepare the wiring, running the lamp connectors through the front grille ready to plug into the lamps once fitted.



**INSTALLATION CONTINUED.**

**STEP 14. LAZER WIRING KIT**

Mount the relay and connect the live and earth connections.



**STEP 14. WIRING WITH SWITCH**

Run the switch cable through the factory grommet.

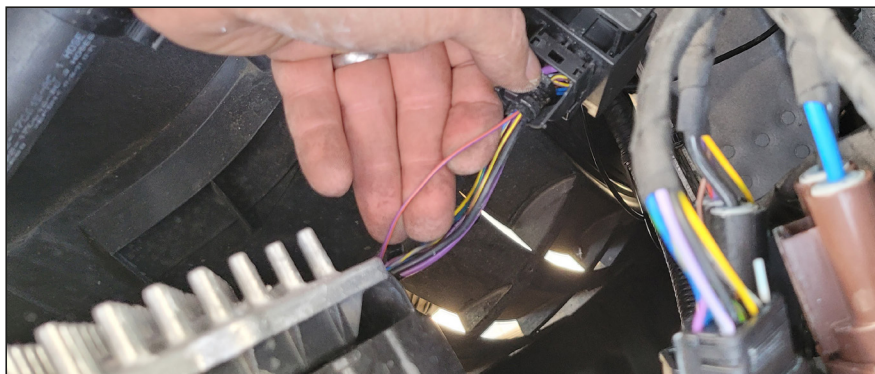
Drill a 20mm hole and install the switch.



**STEP 14. WIRING WITH SPLICE**

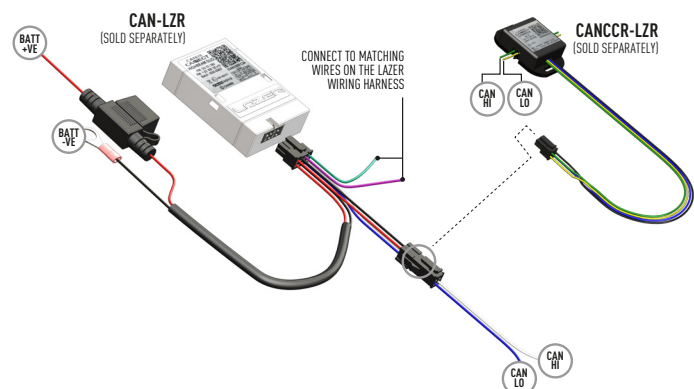
High beam trigger can be found on some models at the right hand side, headlight plug (Purple/Red wire).

**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.





**INSTALLATION CONTINUED.**



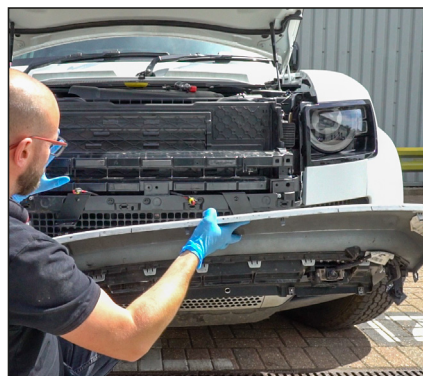
**STEP 15**

Remove 2x of the grille clips at the bottom of the grille, as shown.



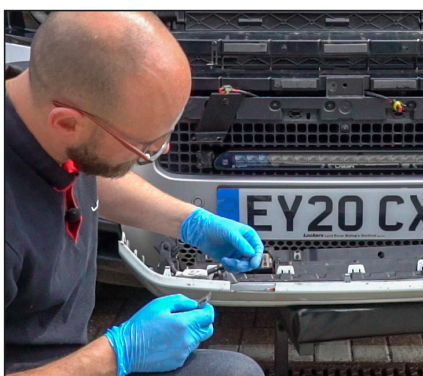
**STEP 16**

Temporarily Re-fit the grille to be able to mark where to trim the grille.



**STEP 17**

Mark where the brackets come into contact with the grille.



**STEP 18**

Trim down the grille where you have marked to allow the grille to fit back onto the vehicle.



**STEP 19**

Re-fit the grille.



**INSTALLATION CONTINUED.**

**STEP 20**

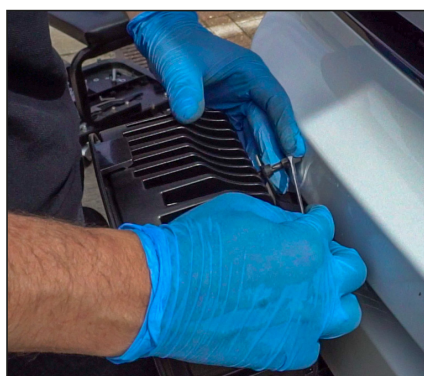
Remove the bracket from the Sentinel lamp.


**STEP 21**

Loosely fit the lamp bracket to the mounting brackets using the M8 Nyloc nuts and M8x20 bolts.


**STEP 22**

Bend the Stay bar up, to a right angle to be able to secure it to the Sentinel lamp.


**STEP 23**

Mount the lights to the bracket and secure the stay bar to the lamp using a 1/4" spanner and T25 Torx (due to tight working space, please take extra care as to not damage the front grille surround).

Once lamps and stay bar is in place, ensure all other bolts are secure and tight.


**STEP 24**

Plug-in lights and test all lights are working.





**LAZER**  
HIGH PERFORMANCE LIGHTING

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