

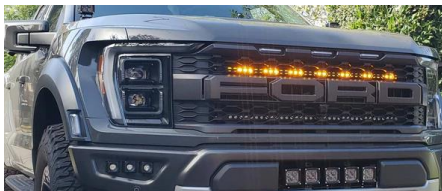


Thank you very much for purchasing from M&R. We strive to provide a great product that is made by truck enthusiasts for truck enthusiasts.

2021+Ford Raptor Gen 3 Single 40in Light Bar

INCLUDED

- (1) 40in Light Bar
- Mounting Brackets
- Mounting bolts



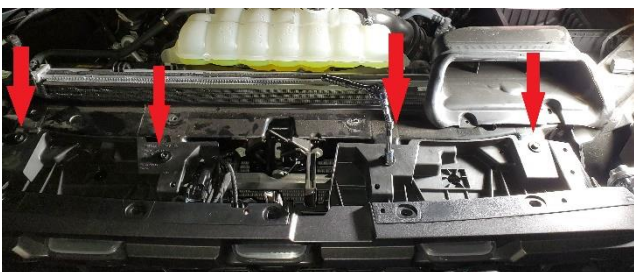
Step 1

Remove all the plastic push pins holding the plastic trim in the engine bay. **TIP** – use a trim pry tool



Step 2

Once the plastic trim is removed unscrew the 4 bolts that are on the top of the grill



Step 3

Remove the bumper panel which is between the grill and the bumper. **(Marked red)** It is held on clips. The easiest way to get it off is by starting on one end and separating the pins as you work your way to the other end. It is very helpful to remove 1-2 screws from the fender wells to get more space to pull.



Step 4

Remove the 2 bottom grill bolts on each side



Step 5

Unplug all the electrical plugs and windshield washer line (squeeze the collar) so that the grille can be removed. Once removed there are more push pins which need to be removed from the bottom of the grille.



*You choose where you want your light bar installed on top or below the FORD sign.



Step 6

Unscrew the following bolts to separate the 2 halves of the grill



Step 9

Now work backwards to put everything together



Step 7

The bottom of the grill also has a few metal clips that need to be unclipped



Step 10

Time for the wiring. The recipient of this kit is responsible for the ground connector and a 10-gauge crimp connector to reach the AUX switch wires. Ford has conveniently setup your truck with aux switches and the wire hook ups are already powered. This makes wiring a lot easier. Please check page 659 of your factory user manual for the steps necessary to connect AUX products to the switches. Ford states they are between the battery and the passenger fender but we had better luck removing the fender cover and doing the connections from the bottom of the wheel well.

Step 8

Install the lightbar with the brackets as pictured below. Use 2 M8 bolts.

Wiring Scheme for the lights

Red → power to the lightbars

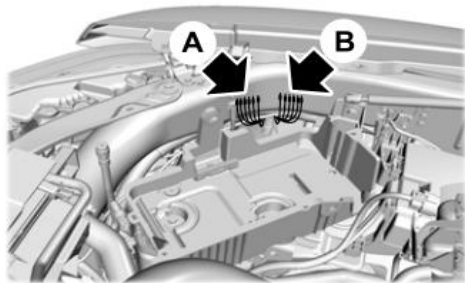
Black → ground to the lightbars

IDENTIFYING THE AUXILIARY SWITCH WIRING

The relays are coded as follows:

Power Distribution Box	Wire Color	Under-hood Pass Through	Wire Color	Passenger Footwell	Wire Size	Fuse
AUX 1	Violet/Green	AUX 1	Violet/Green	AUX 1	1.0 mm ²	10A
AUX 2	Green/Brown	AUX 2	Green/Brown	AUX 2	1.0 mm ²	15A
AUX 3	Green/Blue	AUX 3	Green/Blue	AUX 3	1.0 mm ²	15A
AUX 4	Brown	AUX 4	Brown	AUX 4	1.0 mm ²	10A
AUX 5	Blue/Orange	AUX 5	Blue/Orange	AUX 5	1.0 mm ²	5A
AUX 6	Yellow/Orange	AUX 6	Yellow/Orange	AUX 6	1.0 mm ²	5A

LOCATING THE AUXILIARY SWITCH WIRING



There are three sets of blunt-cut and sealed circuits. Two sets are under the hood and behind the battery tray, and one set is inside your vehicle at the passenger footwell.

The powered set (A) is taped behind the battery tray and has a red spot tape mark.

The second set (B) is also under the hood. It is taped behind the battery tray and has a white spot tape mark. This set routes to the interior passenger footwell.

Remove the battery and battery tray to access the underhood circuits.

ENJOY YOUR ADVENTURE!
&
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