



17+ Raptor SRL Behind Grille Installation Instructions

Step 1:

Remove the 2 forward facing bolts on the inner side of the wheel well, then gently pull the lower side of the fender flare out. There are 2 yellow clips. You may want to use a very small screw driver or a pic to release the tabs on the clips. Once clear of the holes, let it hang off to the side. Make sure the clips are out of the holes or the tension will pull them right back in.



Step 2:

Remove the push pin from the top of the trim panel around the headlights and the radiator cover panel



Step 3:

Gently pull on the outer side of the panel near the wheel well to release it from its clips. Work from the outside in. Once the trim panel is removed, make sure all the plastic clips are in place on it. Sometimes they fall off.



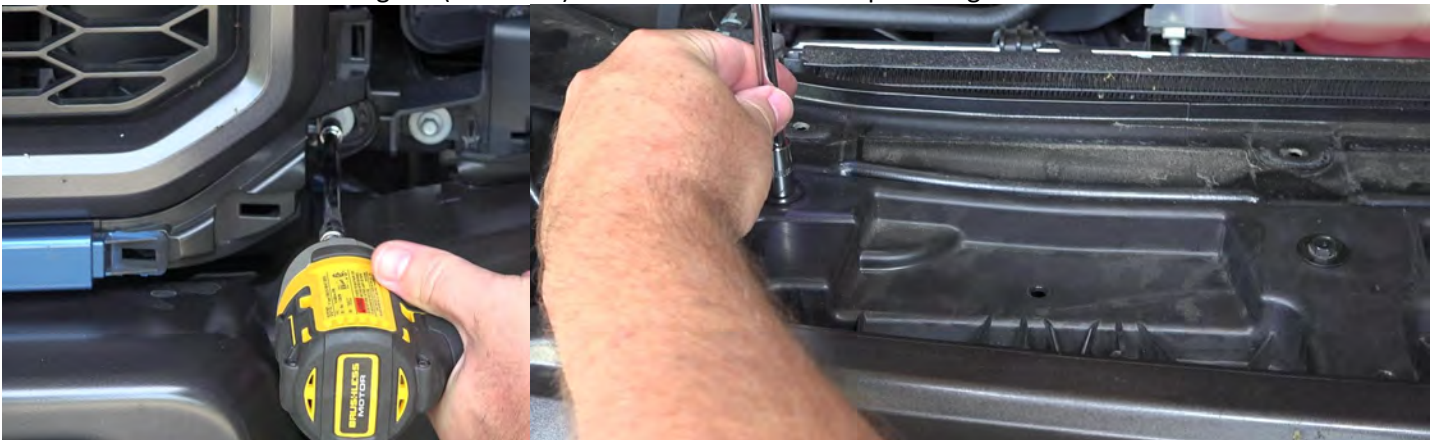
Step 4:

Remove the Push pins along the side of the Grille holding the rubber splash guard. There are 3 pins on each side



Step 5:

Remove the lower bolts on the grille (Each side) and then the 4 on the top of the grille



Step 6:

Unplug all the connectors from the top of the grille carefully and lift the retainer clips holding the cords to the grille.



Step 7:

Gently LIFT UP on the grille and remove it. Then lay it on a flat surface with a blanket or padding to avoid scratches.



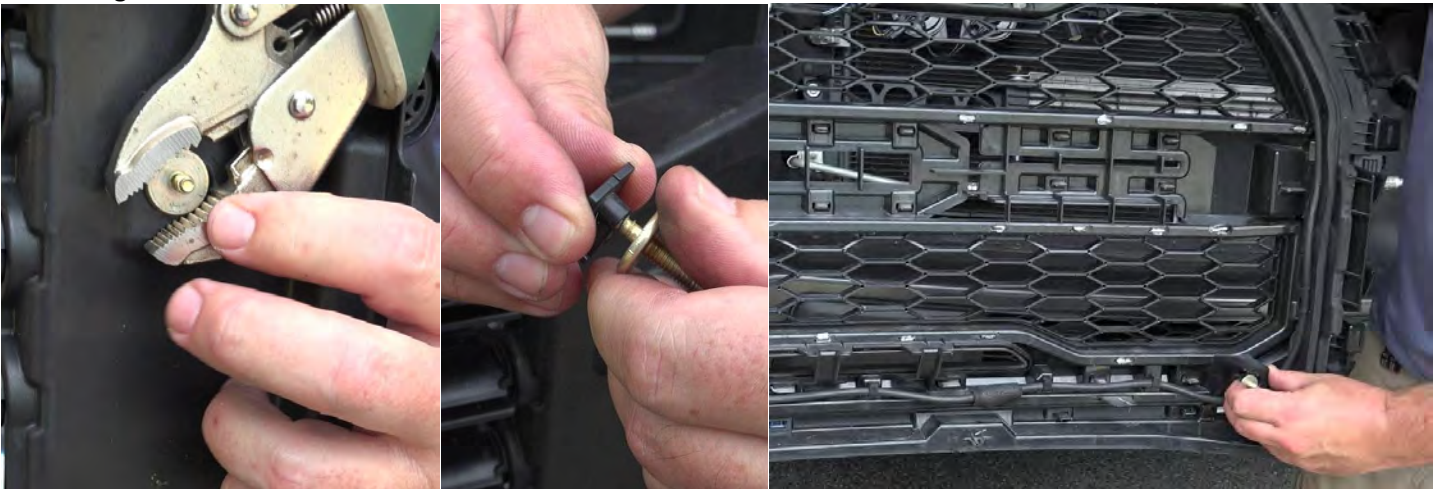
Step 8:

Remove 4 outside Nuts, One small 8mm bolt in the middle, and 3 wing nuts on the plastic studs on the bottom of the backside of the grille. Then, remove the 4 plastic push pins on the top side. Then Separate the front and back Grille



Step 9:

In most cases, the gold colored stud will remain on the back grille, unthreaded from its plastic clip mount and with the nut still on it. If so, GENTLY take a pair of vice grips and hold the OUTSIDE EDGE as in the pic on the one side and remove the nut with a wrench. (DO NOT CLAMP THE THREADS) After, screw the stud back into the plastic clip and snap it back in the front grille slot.

**Step 10:**

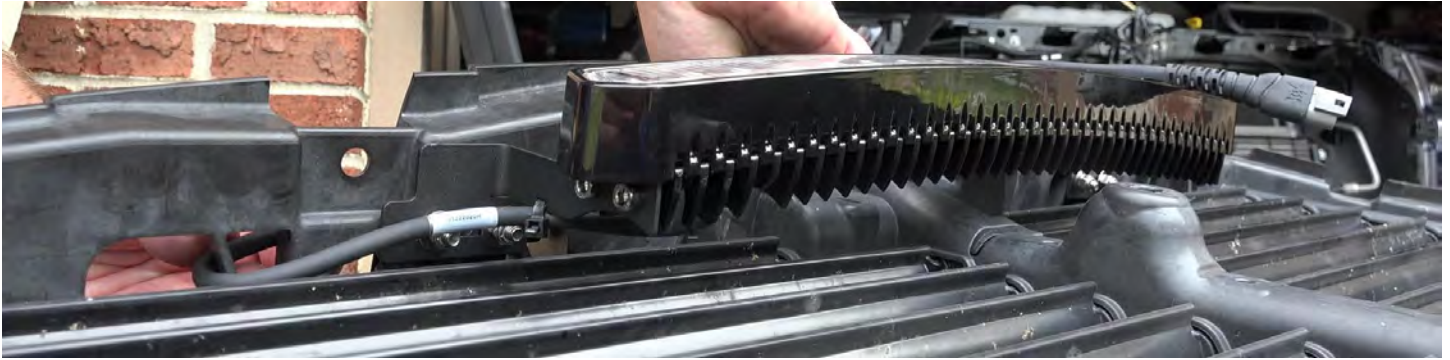
Assemble the Brackets to the bar. Insert the threaded insert into each end, place each brackets on each end and use the 2 screws in each end. The BENDS will go toward the center of the grille.

Then, insert the top Plates on each side with the arrow FORWARD, and insert the carriage bolts through them and nuts and washers to sandwich the brackets to the grille. Take notice to center the bar, and space the bolts apart for stability. NOTE: The Power cord will go on the PASSENGER SIDE, because the switch wires are located there.



Step 11:

Notice the power cable. Be sure to pull it up and flat and secure it away from the shutters by attaching it to the brackets through the slot with a zip tie. Then, run the plug and cord through the largest hole on that side and zip tie it again there at the top of the grille.

**Step 12:**

Reassemble the Grille in the same way it was taken apart. Insert it back into the truck. Install all the bolts (4 top, 2 Bottom) From there, before proceeding further to reinstall everything, see the next step.

Step 13:

Take the cable from the light, or the custom harness supplied, and run it through behind the passenger headlight and plug the light and harness into each other. Then pull them all the way through into the engine bay.

Push the cable into the groove as pictured and reinstall the top panel over the grille with the push pins. Then reinstall the push pins and side rubber splash guard. Then, Snap the headlight panels back on and install flares and small bolts.

**Step 14:**

Last, make your connections. See the RAPTOR SUPPLEMENT in your owners manual for wire color and switch location. (There is a chart on the next page that will list most 17-20 Colors. If yours don't match, see your manual) The red wire will go to the switch wire of your choice. This powers the main white light. The white wire powers the amber backlight. It can either be connected to another switch wire or our backlight wire kit (Visit SPVparts.com for details) The Harnesses now come with HEAT SHRINK Bullet Connectors that can be unplugged and plugged back in.

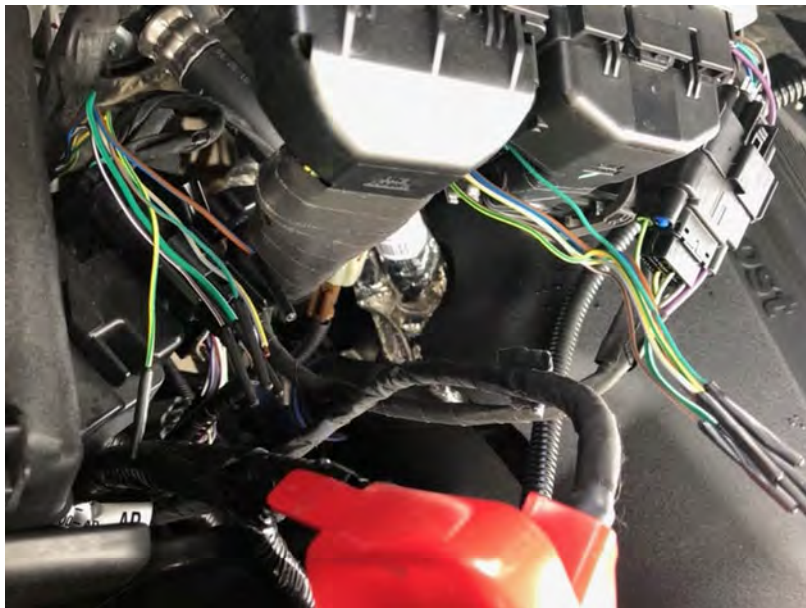


IMPORTANT WIRING DIRECTIONS

It is extremely important to check which light you have and how many amps it draws. Switches 1-2 are 15 amps. Switches 3-4 are 10 amps. Switches 5-6 are 5 amps. You can ONLY connect the wire direct to a switch that has more amps allowed than the light uses. For example. The SRL 20" light bar uses 9 amps. So it can be connected directly to Switches 1 or 2 preferably. 3-4 if 1-2 is taken, though it is on the edge. You could blow a fuse if used a long period of time on 3-4. Any light that will draw MORE than the switch will require to be passed through a relay. (There is a relay harness included with your light bar.) The relay allows you to connect a red power and a black ground leads to your battery directly. You then connect a trigger wire to your switch wires on the firewall. That wire color is usually BLUE. It may have a spade connector on it and it should also be grouped with a red and black wire with a spade connector on those. They do NOT get used. Only the blue trigger wire. The red and black are to POWER a little aftermarket rocker switch. Your switches on the Raptor are powered already. They just can't power more than 15 amps. It is important to either cap off, or securely seal or tape those red and black wires because they do have power.

Now, you may run into some issues. And get stuck because you pulled out a set of wires that have no power. Ford installed 2 sets of wires. One set is powered by the switches. The other set is a PASS THROUGH set. There is no power. These are just a jumper set that are run into the passenger side fuse panel area on the floorboard in case you wanted to connect something interior wise to a switch. If that were the case, you would connect the two of the same color together.

If you grab the wrong group of wires and don't have power to your lights, don't fret. Just find the second set. All will be good. See picture below showing BOTH sets and how close they are to each other. GENERALLY, the powered set is toward the fender, or higher up. HOWEVER there have been SEVERAL cases that they are reversed. So.... Pick a set and hopefully you get it right the first time... GOOD LUCK! Crimp your Red wire to your preferred switch (Right)



2018 ½ - 2020

The relays are coded as follows:

| Power Distribution Box | Wire Color | Under-hood Pass Through | Wire Color | Passenger Footwell | Wire Size | Fuse |
|------------------------|--------------|-------------------------|--------------|--------------------|----------------------|------|
| AUX 1 | Green/White | AUX 1 | Green/White | AUX 1 | 1.0 mm ² | 15A |
| AUX 2 | Brown/Blue | AUX 2 | Brown/Blue | AUX 2 | 1.0 mm ² | 15A |
| AUX 3 | Gray/Yellow | AUX 3 | Gray/Yellow | AUX 3 | 0.50 mm ² | 10A |
| AUX 4 | Green/Brown | AUX 4 | Green/Brown | AUX 4 | 0.50 mm ² | 10A |
| AUX 5 | Brown/White | AUX 5 | Brown/White | AUX 5 | 0.35 mm ² | 5A |
| AUX 6 | Green/Orange | AUX 6 | Green/Orange | AUX 6 | 0.35 mm ² | 5A |

2017-2018 ½

The relays are coded as follows:

| Switch | Circuit number | Wire color | Fuse |
|--------|----------------|---------------|------|
| AUX 1 | CBB47A | Green/Blue | 15A |
| AUX 2 | CBB48A | Gray/Yellow | 15A |
| AUX 3 | CBB94 | Violet/Orange | 10A |
| AUX 4 | CBB96 | Brown/Blue | 10A |
| AUX 5 | CBB98A | Gray/Orange | 5A |
| AUX 6 | CBBA0B | Yellow/Violet | 5A |

SPV Parts is not responsible for issues that arise from consumer installations. Warranties on the lights are provided by Rigid Industries which in most cases are a limited lifetime. Refer to Rigid for warranty details on their lights.

There is a FULL install video: (QR Code to Right or Address Below)

<https://youtu.be/TPyWuOstK1c>

