



# INSTALLATION GUIDE

22+/**FORD RAPTOR**

## ADAPTIVE CRUISE CONTROL BRACKET



### PREPARATION

**We recommend reading through the installation instructions in whole before performing the work.**

- Disconnect the negative battery terminal. Park the vehicle on level ground and set the emergency brake.
- When button head bolts are being used, install the supplied washer on the nut side. Then, hold the bolt stationary and only turn the nut to tighten. Do not turn the bolt to tighten hardware assembly, unless otherwise noted.
- Anti-seize is recommended for all fasteners.



#### SKILL LEVEL

-Easy/Intermediate

**\*\*This installation requires 2 people for best results\*\***



#### TIME REQUIRED

- 1.5 hours for OEM Removal/Bumper Install

**\*\*Labor Rates are based on a vehicle with no pre-existing damage. Wiring labor is based on a standard wiring procedure with light switches installed in an easily accessible location. Custom light triggering or switch mounting location will result in a greater labor charge.\*\***



#### INCLUDED IN KIT

- 8- Nylon Lock Nuts (1/4-20")
- 2- Button Head Bolts (1/4-20 X 1")
- 5- Button Head Bolts (1/4-20 X 3/4")
- 8- Flat Washer (1/4")
- 2- Button Head Bolt (3/8-16 X 1")
- 2- Nylon Lock Nuts (3/8-16")
- 2- Flat Washers (3/8")



#### TOOLS REQUIRED

- (Sockets) 7/16, 9/16, 8mm, 10mm, 13mm, 21mm
- (Box end wrenches) 7/16, 9/16, 8mm, 10mm, 13mm, 21mm
- (Allen wrenches) 5/32, 7/32
- (Drill Bits) 1/4, 3/8
- Fastener remover or flathead screwdriver
- Drill
- Ratchet

## PHANTOM FRONT BUMPER

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### STEP 1

Remove the 6x bolts to release the OEM skid plate using a (13mm socket).

## REMOVAL





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### STEP 2

Remove the skid plate spacer.

## REMOVAL



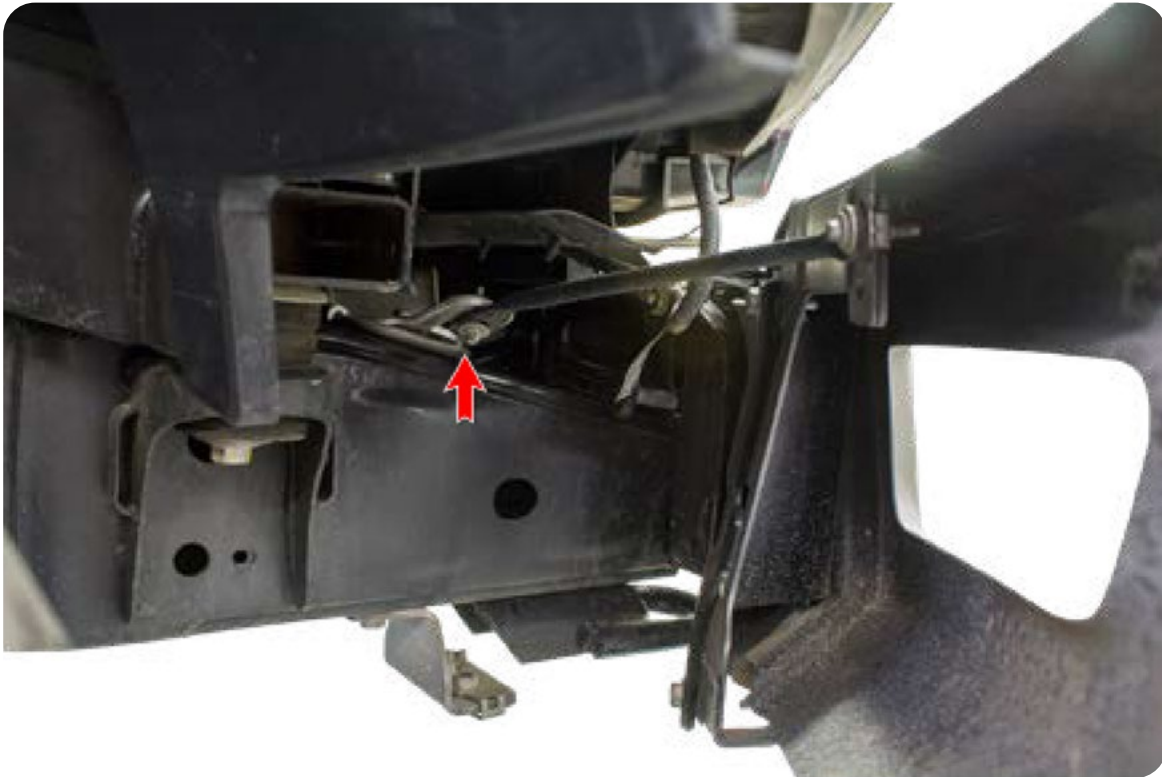
## ADAPTIVE CRUISE CONTROL BRACKET

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### □ STEP 3

Remove the support brackets holding the bumper to the frame horns using a (8mm socket). (Repeat on other side)

## REMOVAL



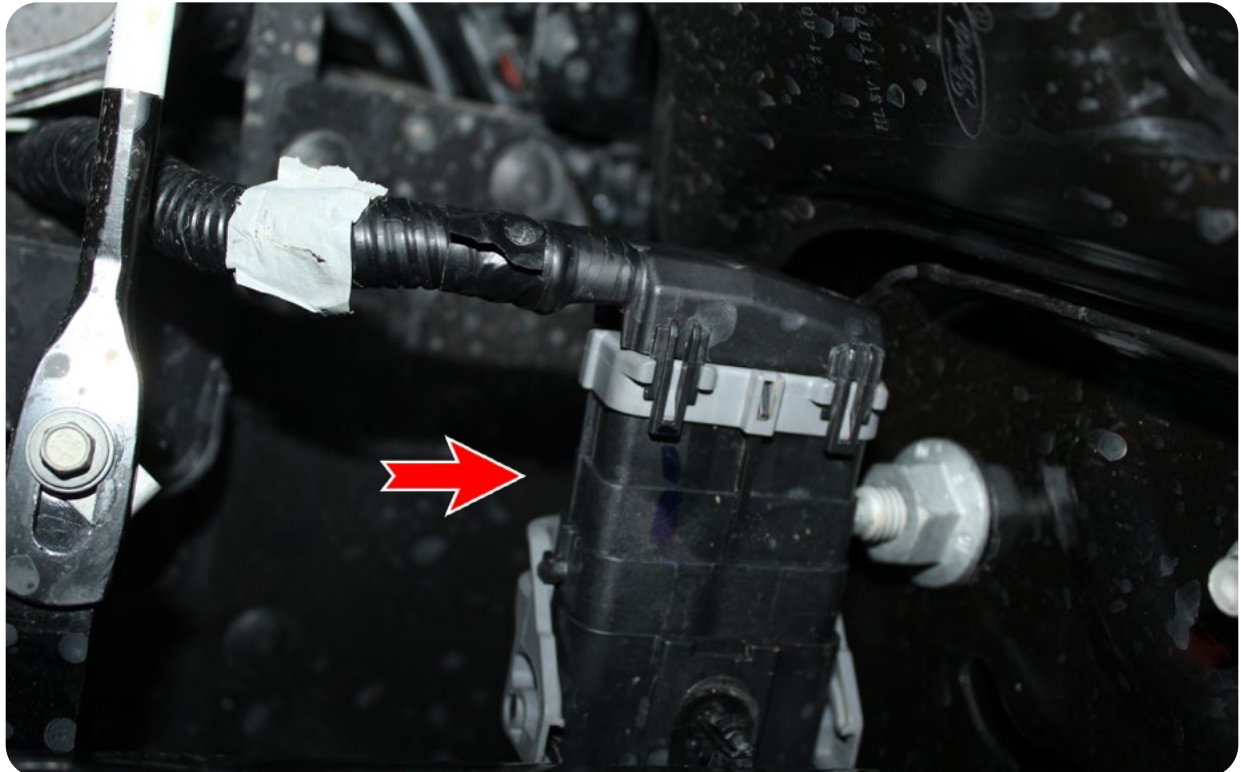
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### STEP 4

Unplug the main wiring harness plug in located on the passenger side by pulling the gray tab back as shown below.

## REMOVAL



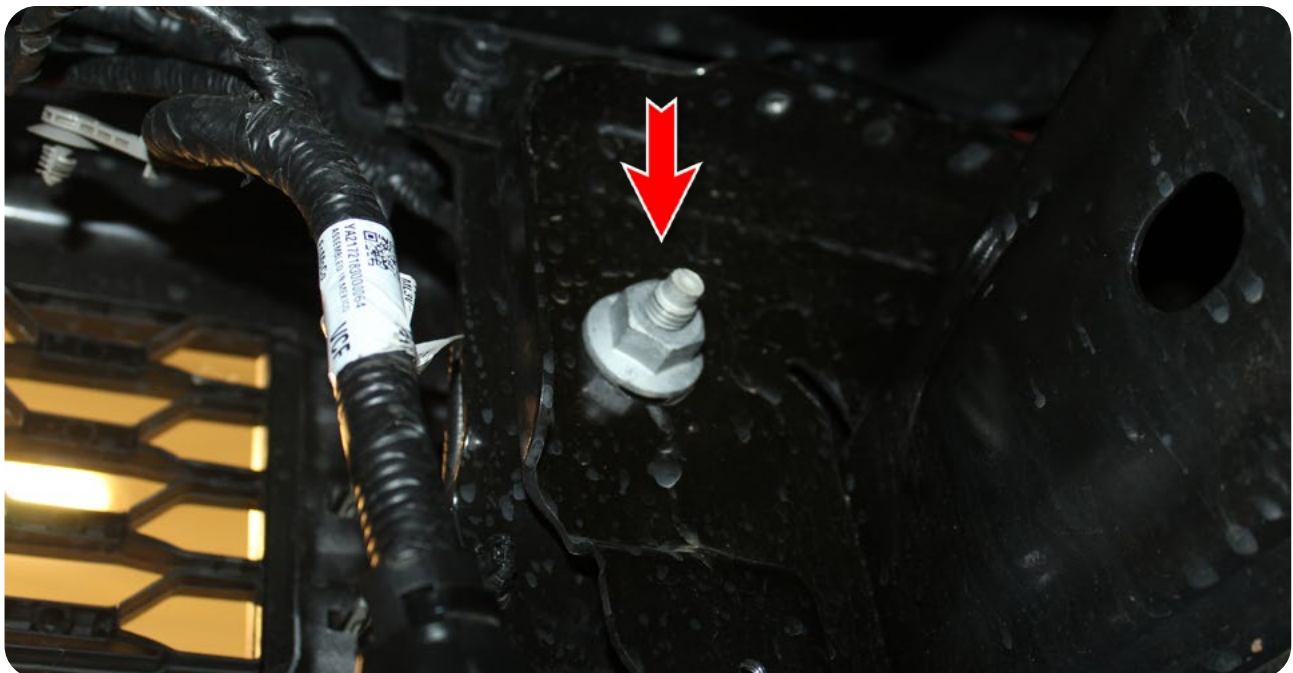
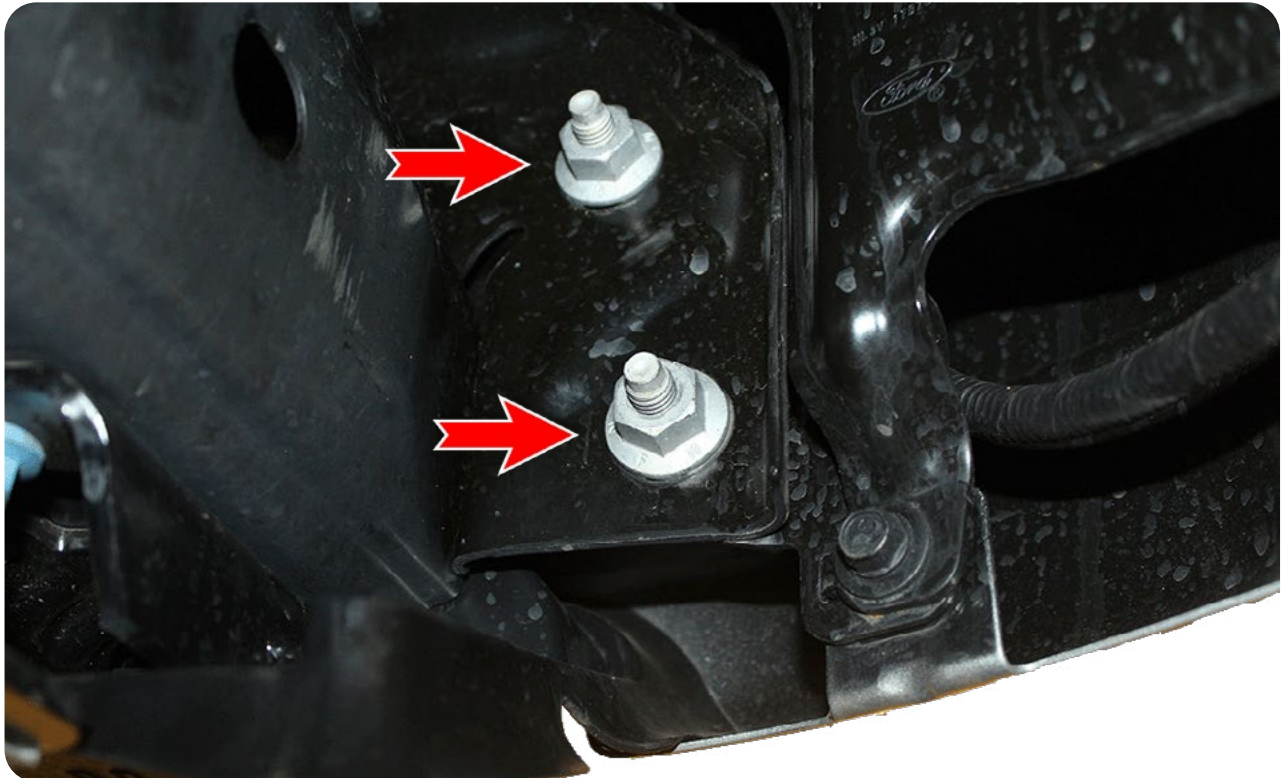
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### STEP 5

Remove the mounting bolts located on the frame horn using a (21mm Socket). (Repeat on other side)

## REMOVAL



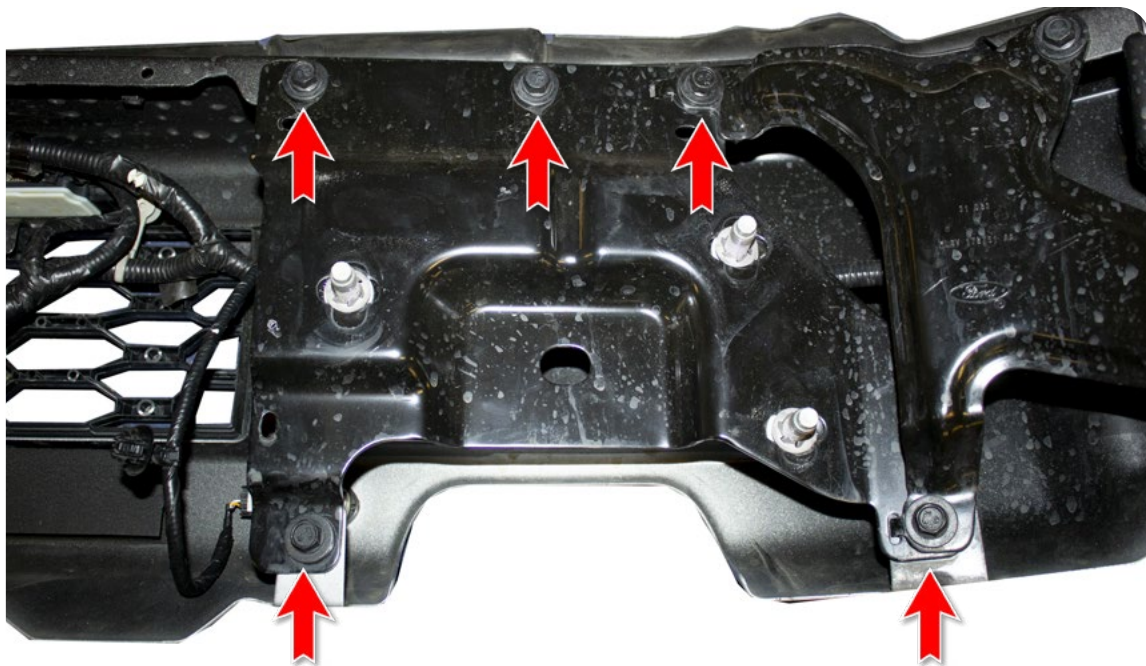
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### STEP 6

Using a (10mm socket), remove the covers to expose the wire harness.

## REMOVAL



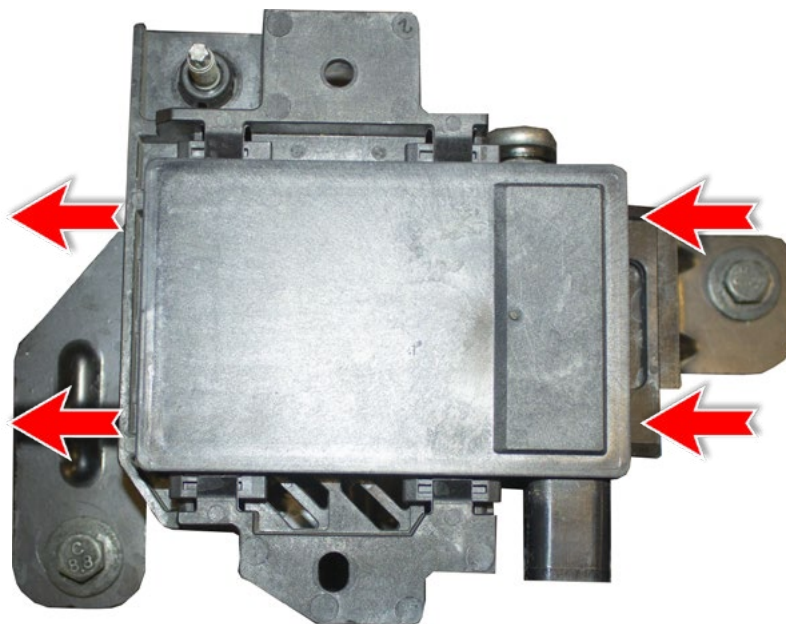
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### □ STEP 7

Remove the pin from the adaptive cruise control bracket and slide the module down to remove.

## REMOVAL





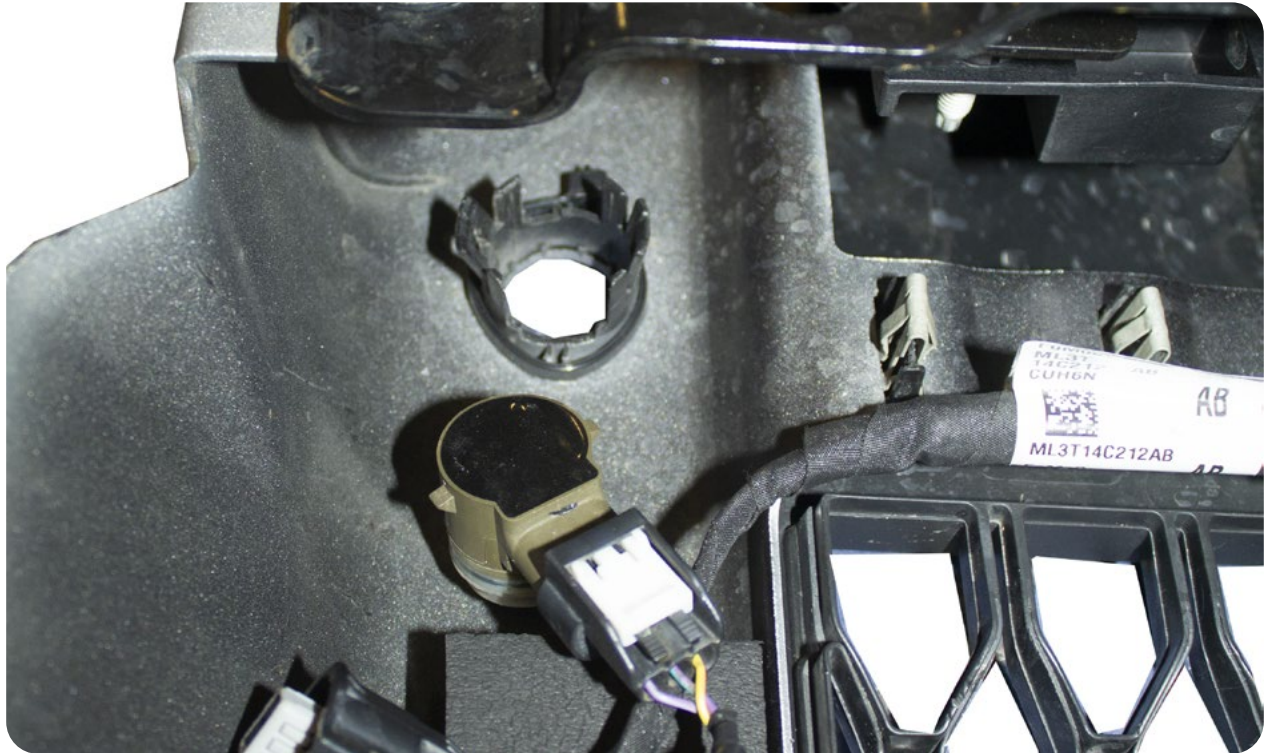
## ADAPTIVE CRUISE CONTROL BRACKET

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### STEP 8

Remove all four parking sensors and bezels from the stock bumper and remove wire harness.

## REMOVAL



**Spread these two tabs to release the sensor from its mounting ring.**



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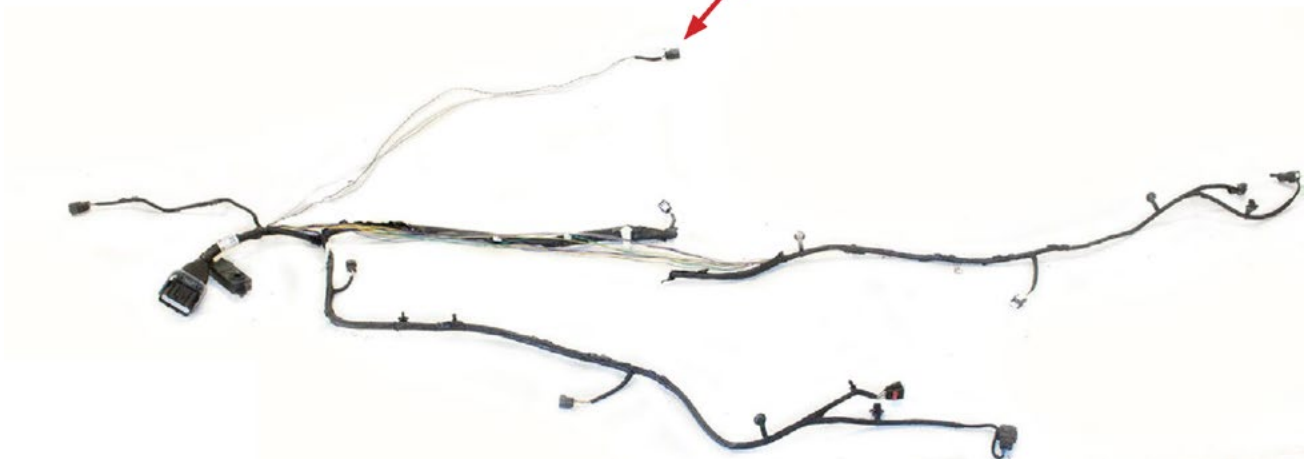
### STEP 9

Find the section of the wire harness that goes to the adaptive cruise control bracket. Remove the wire loom from this point all the way back to the main connector so you can separate the adaptive cruise wires from the rest of the harness. Once you have all the wires separated re-loom the exposed wire.

## REMOVAL



Strip back the wire loom starting at this connector and ending at the main harness connector so it looks like below when you are complete.



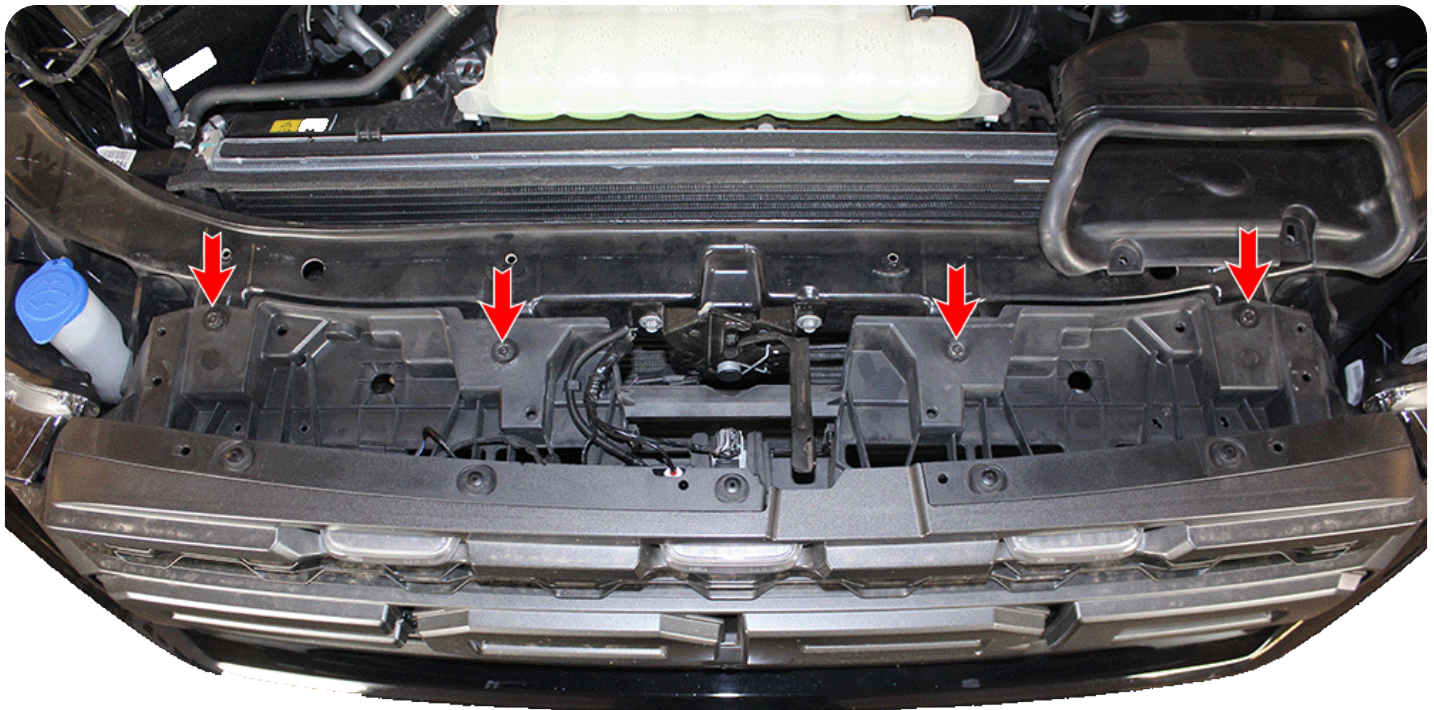
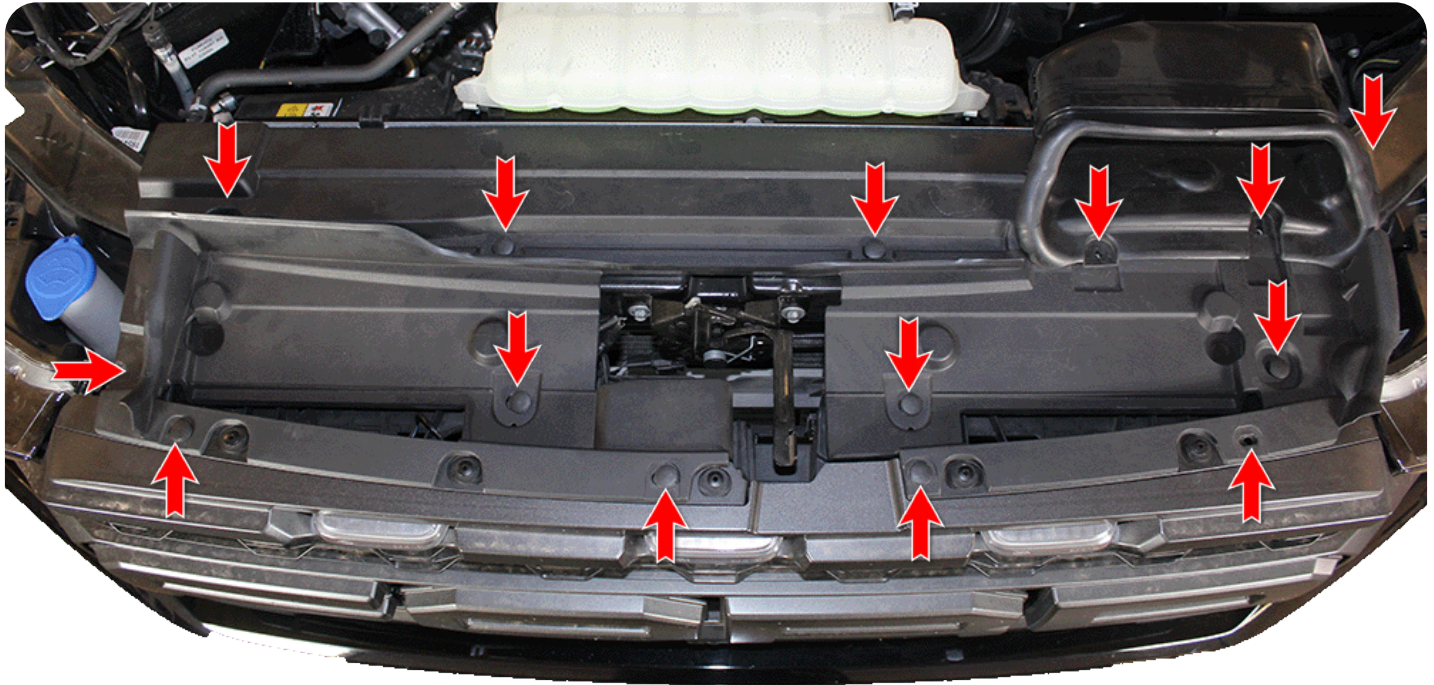
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### STEP 10

Using a (fastener remover/flathead) remove the pushpins holding the cover on top of the grill. Next use a (10mm) to remove the bolts holding the grill.

## REMOVAL





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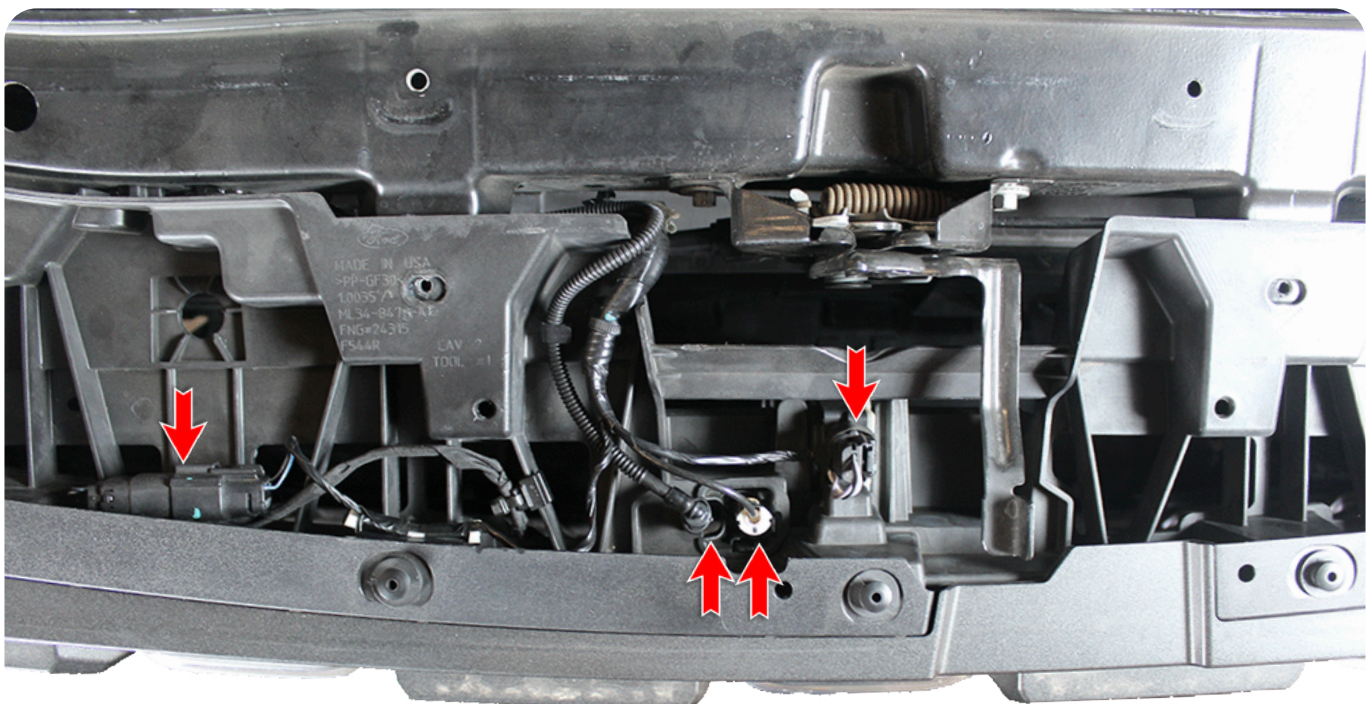
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### STEP 11

Unplug all four plug-ins on top of the grill.

## REMOVAL



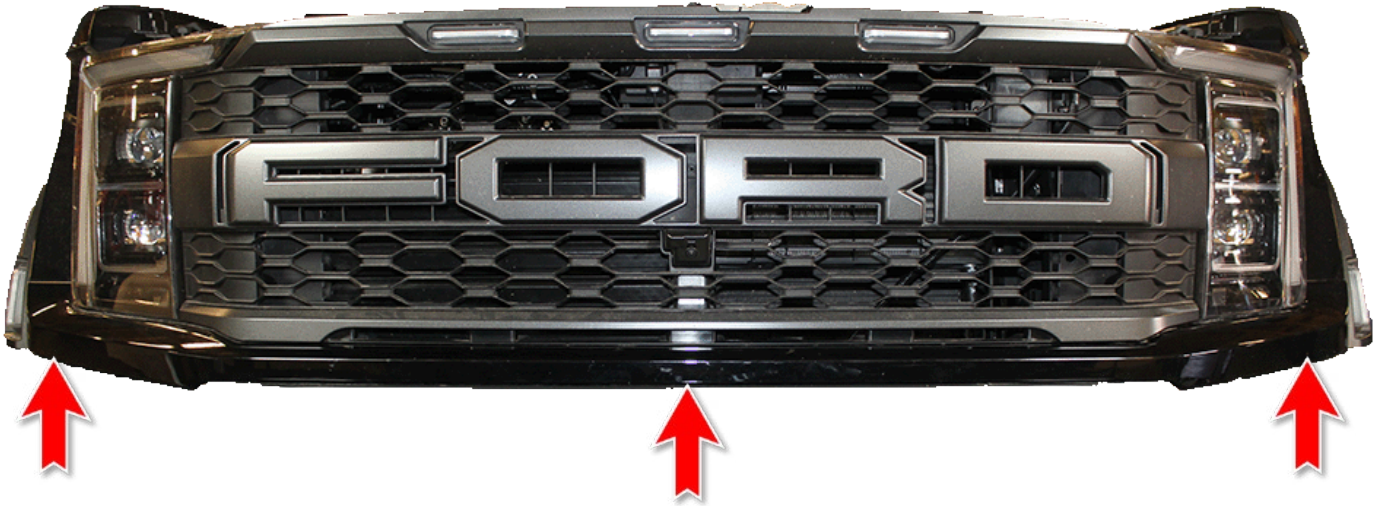
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### □ STEP 12

Remove the valence located on the bottom of the grill. Pull the outside trim outwards and pull the valence off on each side.

## REMOVAL



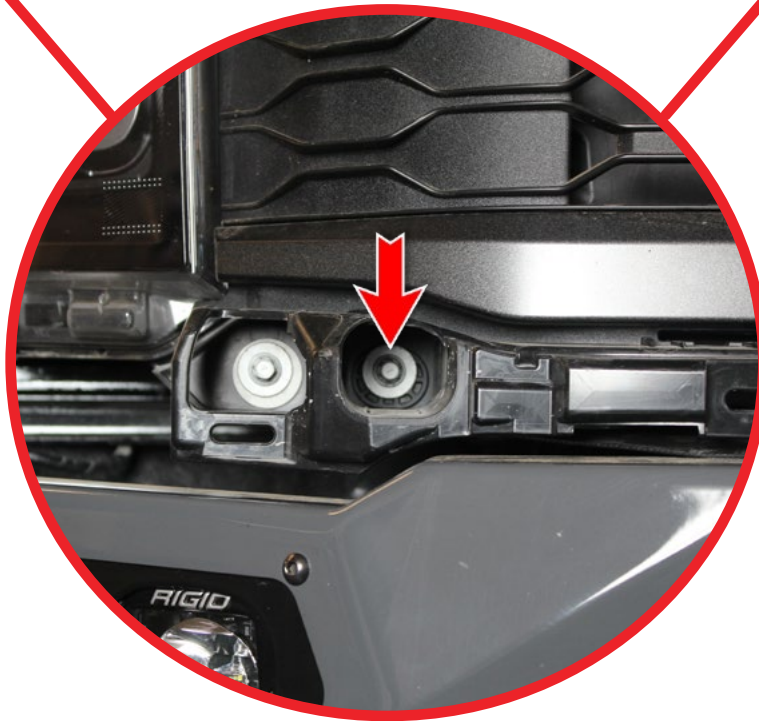
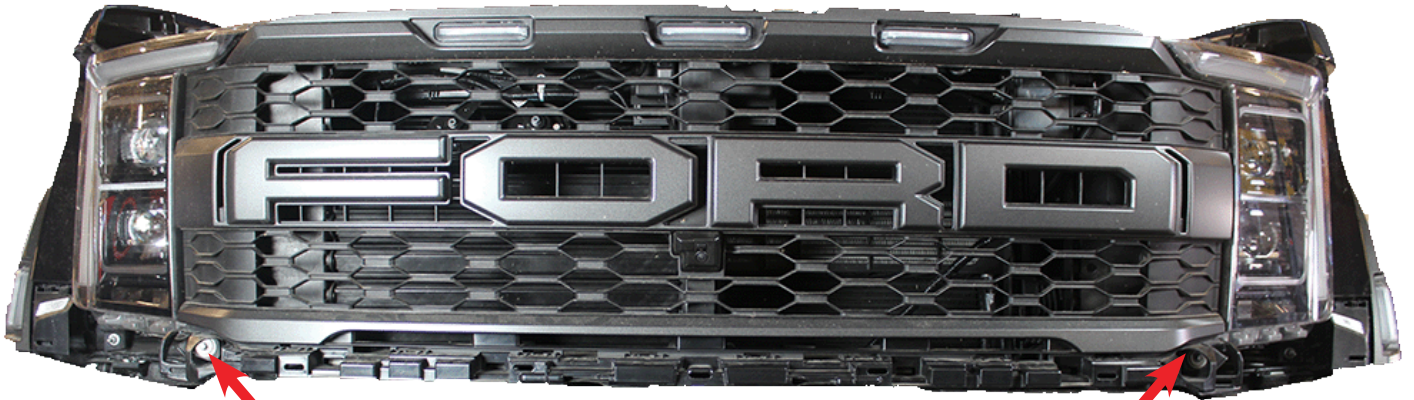
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### □ STEP 13

Remove the bolts holding the grill from the bottom using a (8mm). You can now remove the grill.

## REMOVAL



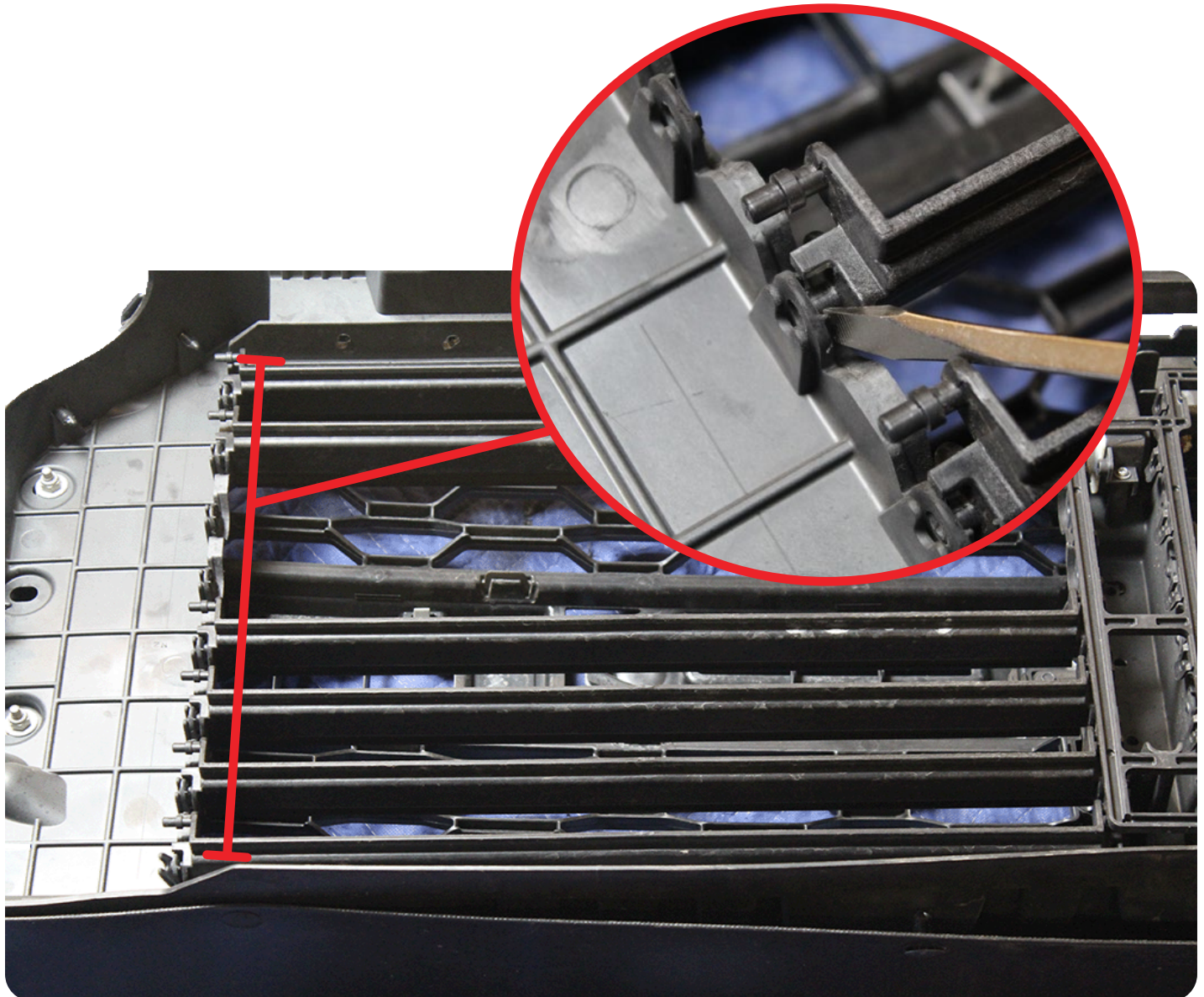
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### STEP 14

Using a (flathead) remove all the shutters on the driver side of the grill.

## REMOVAL



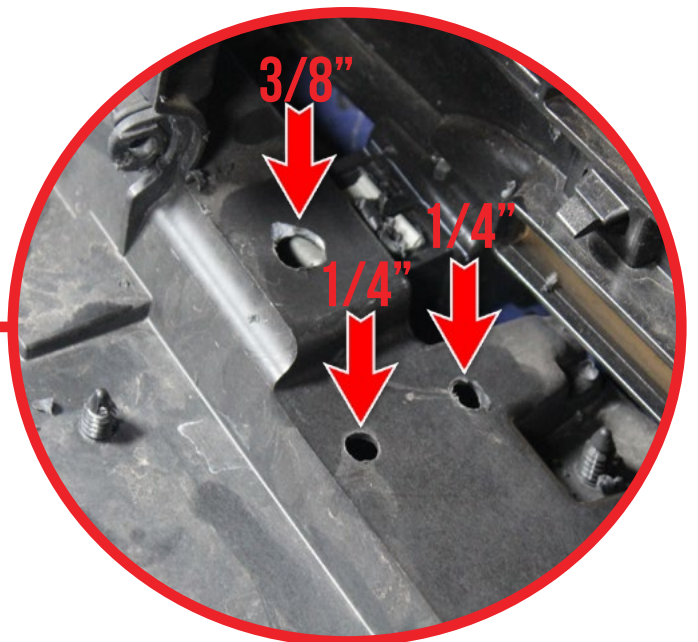
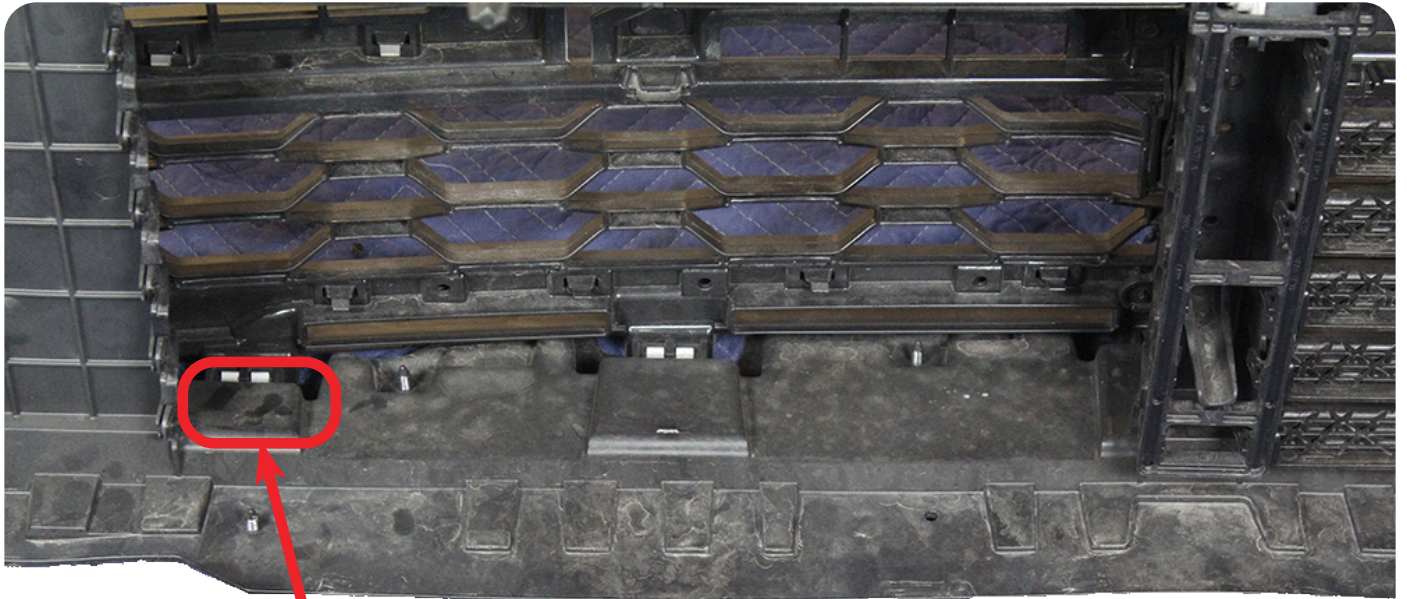
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### STEP 15

Place the mounting bracket on the bottom left corner. Mark and drill using a (1/4" and 3/8" drill bit).

## INSTALLATION







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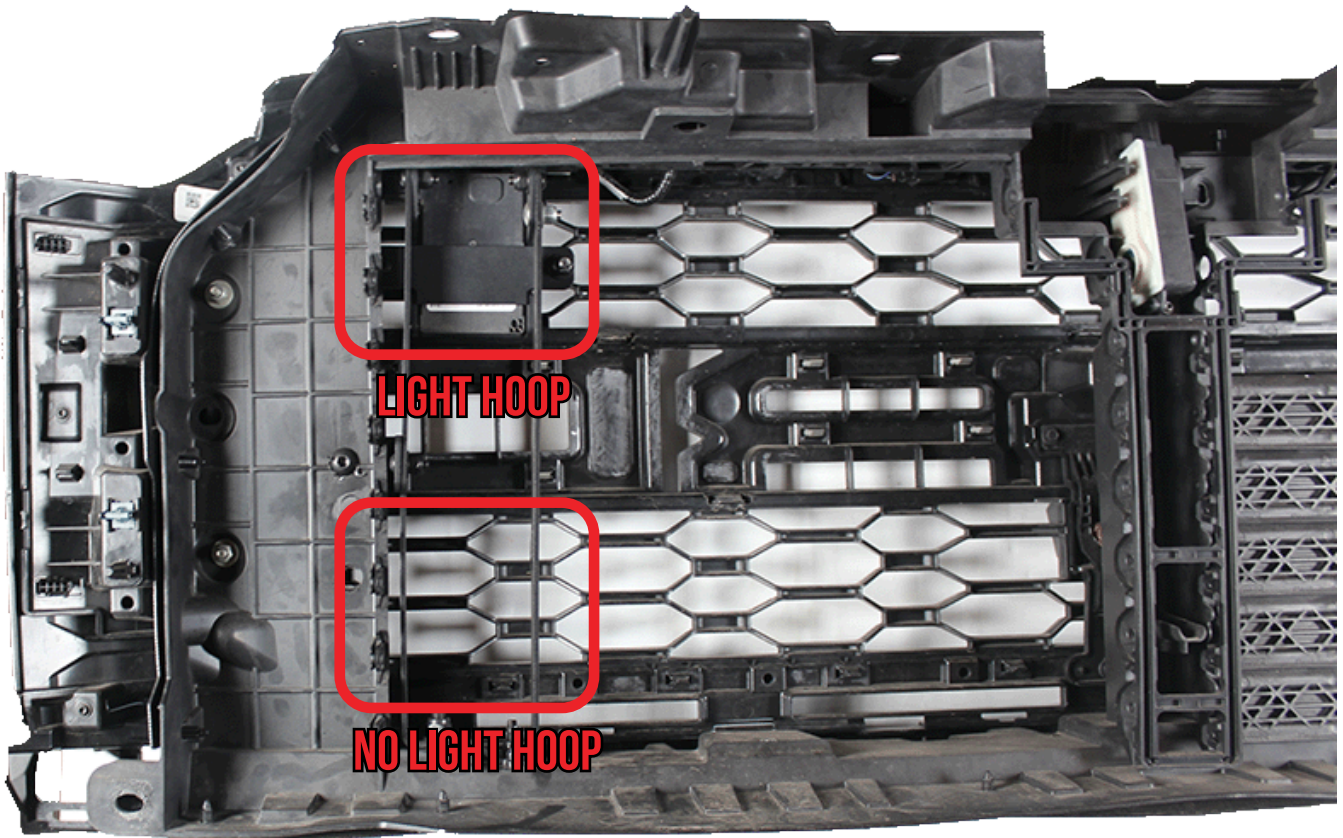
## ADAPTIVE CRUISE CONTROL BRACKET

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### STEP 16

If you have a light hoop mount your ACC on top of the bracket. If not use the bottom.

## INSTALLATION



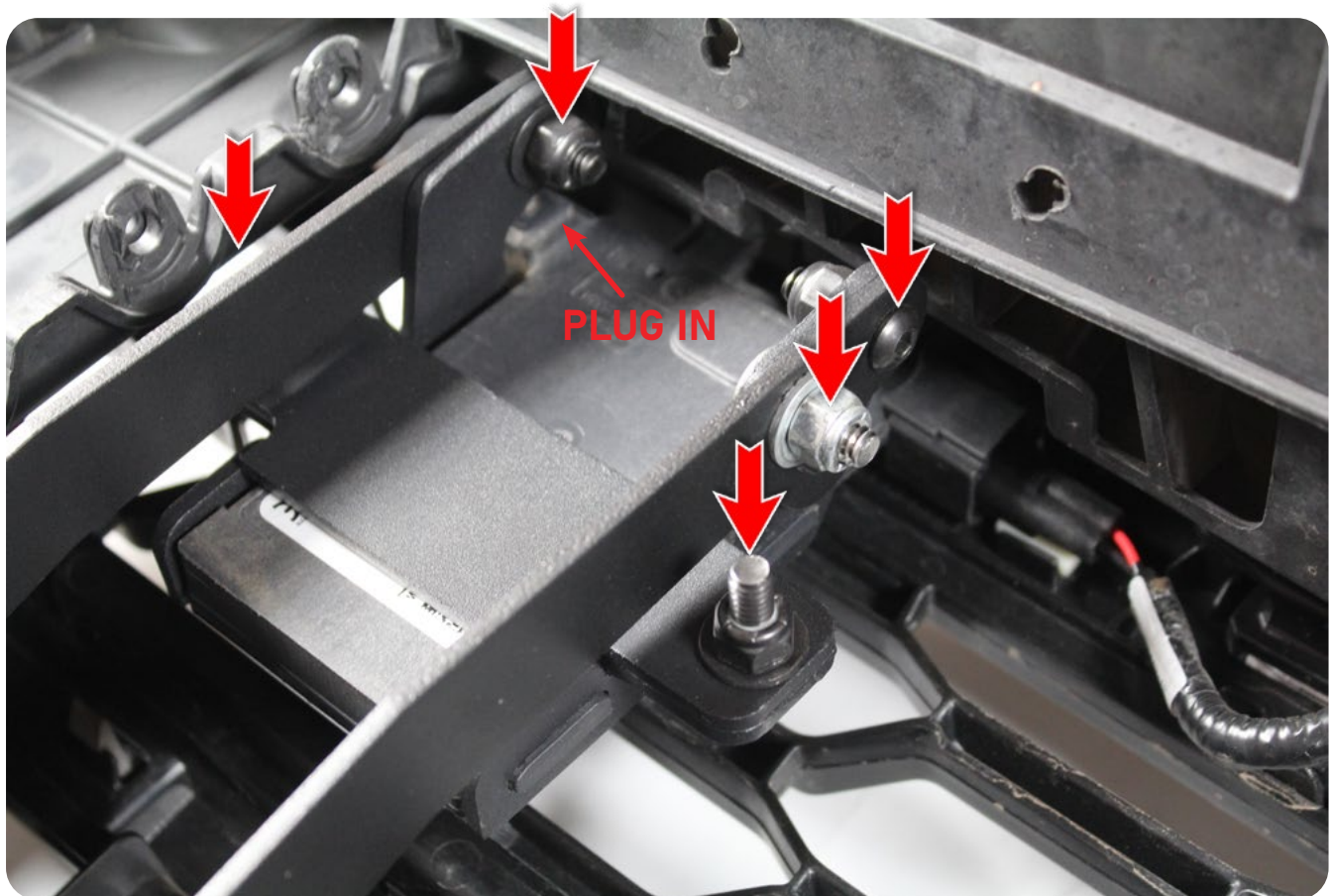
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### STEP 17

Mount your ACC module to the bracket with your provided 1/4-20 X 3/4" button head bolts, nylon lock nuts, and washers using a (5/32 allen) and (7/16 wrench). And install the 1/4-20 carriage bolt, nylon lock nut and washer using a (7/16 wrench). (Ensure plug in is facing the driver side, not passenger)

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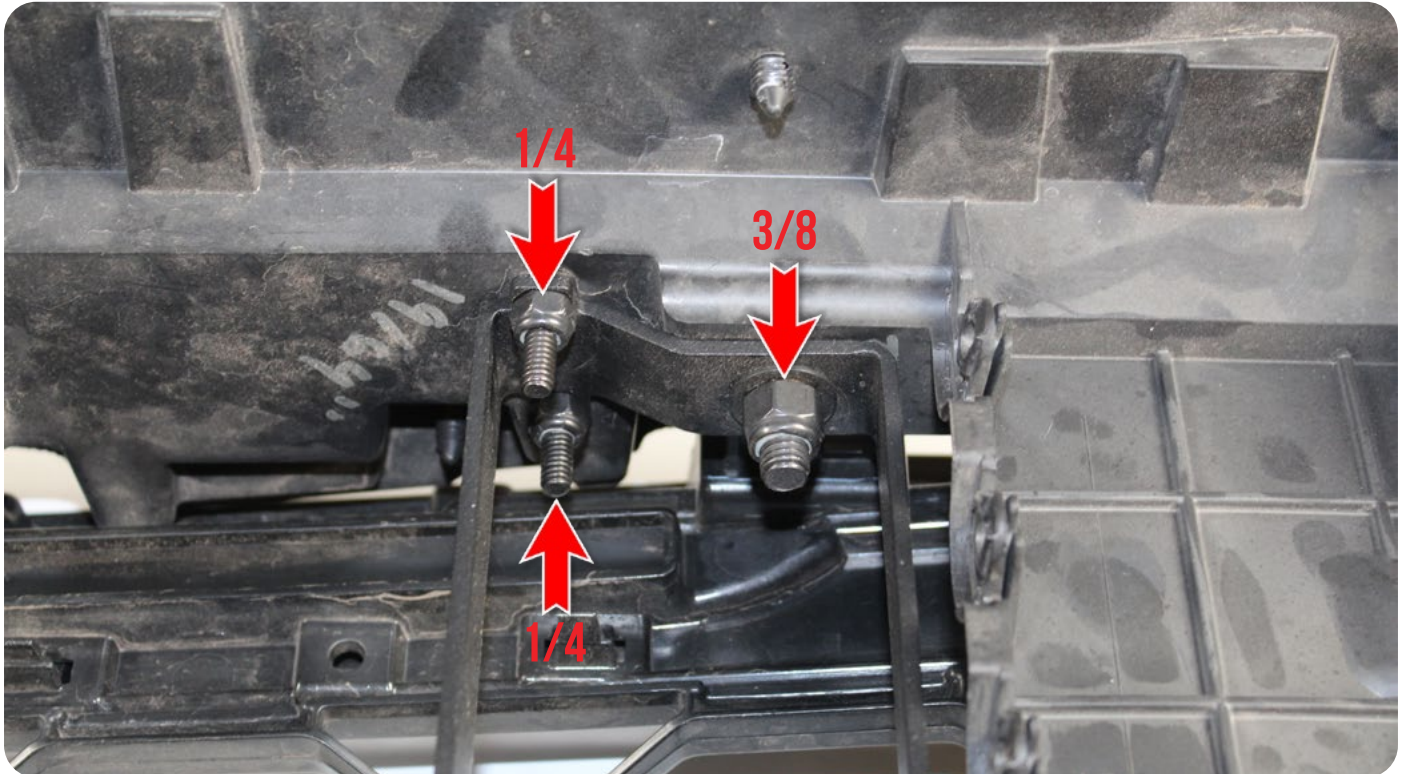
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### STEP 18

Install the mounting bracket with the provided 1/4-20 X 1" button head bolts, nylon lock nuts, and washers using a (5/32 allen) and (7/16 wrench). And the provided 3/8-16 X 3/4" button head bolt, nylon lock nut, and washer using a (7/32 allen wrench) and (9/16 wrench).

## INSTALLATION



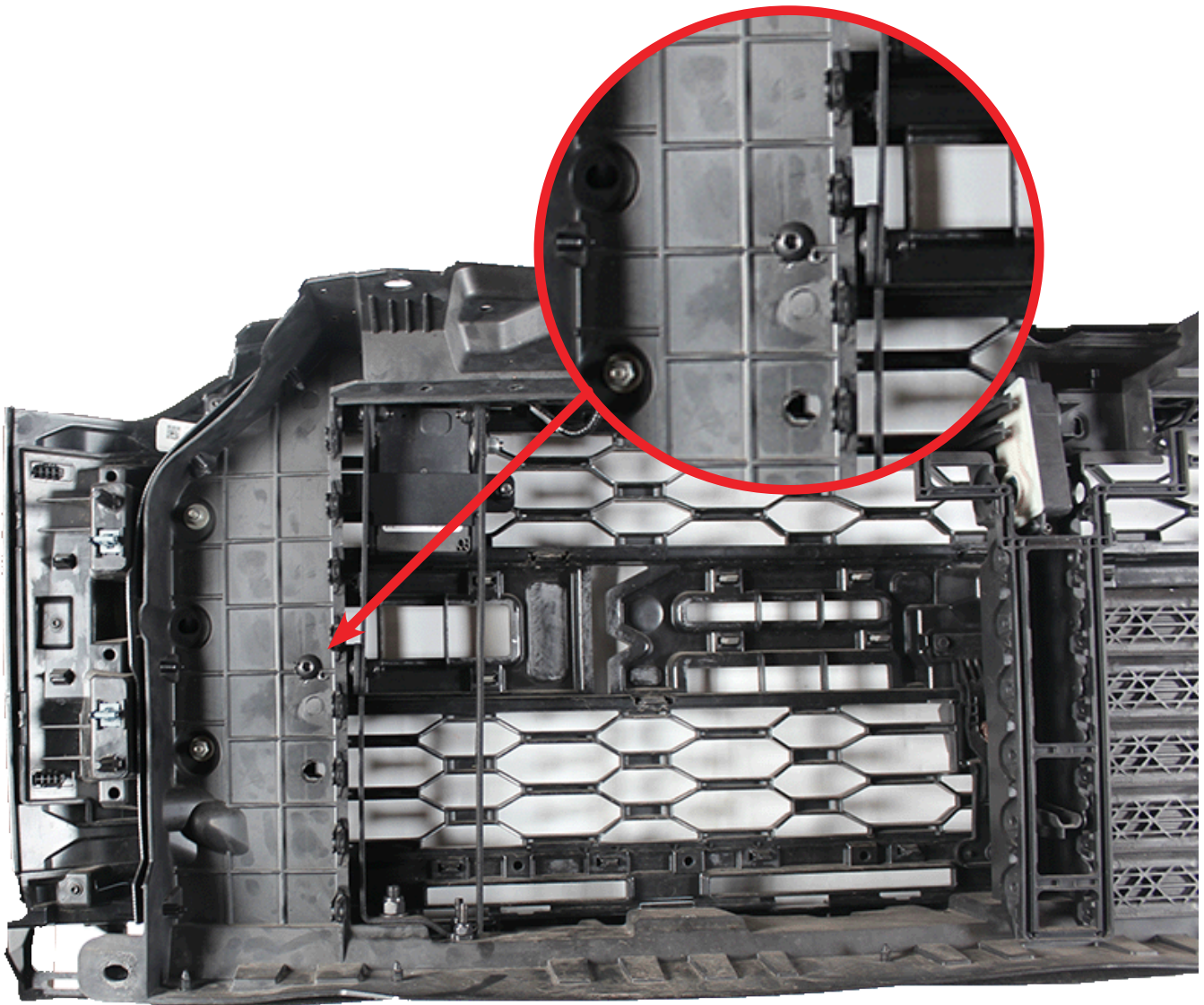
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### STEP 19

Using your (3/8 drill bit), drill a hole for your support bracket. Install your support bracket with the provided 1/4-20 X 3/4" button head bolt, nylon lock nut, and washer using a (5/32 allen) and (7/16 wrench). And the provided 3/8-16 X 3/4" button head bolt, washer, nylon lock nut with a (7/32 allen wrench) and (9/16 wrench).

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# FINAL

### STEP 20

Stand back and enjoy your new Adaptive Cruise Control Bracket.

Check and re-tighten, if needed, all mounting bolts after 100 miles and periodically thereafter.



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