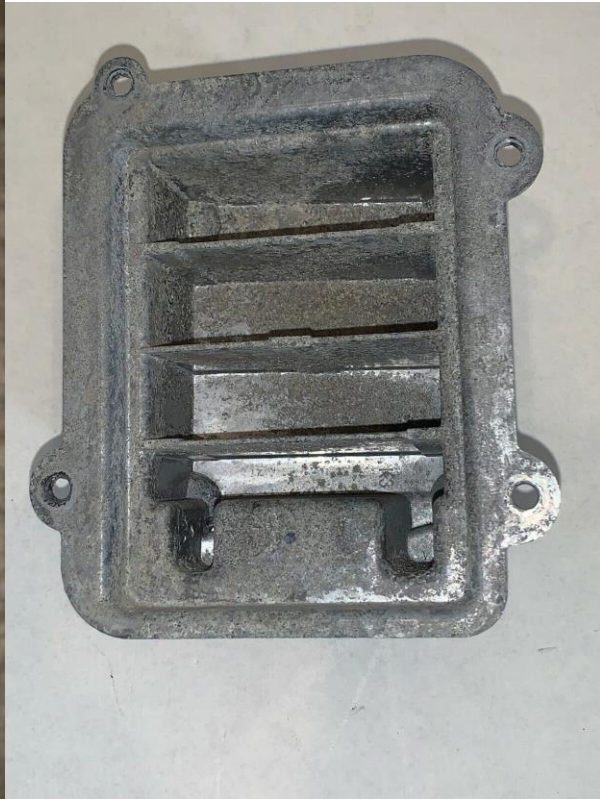


Adding Blind Spot Monitoring (BSM) on 2019 RAM 1500

1. LED Taillight housings with Blind Spot Modules present

- You can either buy factory blind spot taillights or add the sensor to your existing ones. If you are buying factory BSM taillights, you can skip down to the last two steps before section 2. Otherwise, these steps are needed to install sensors in a non-BSM taillight.
- Part Number: **68263397AC** You need 2 of these and will also need the aluminum brackets that these sensors mount to (they are different for each side). eBay is a great source for cheap parts.

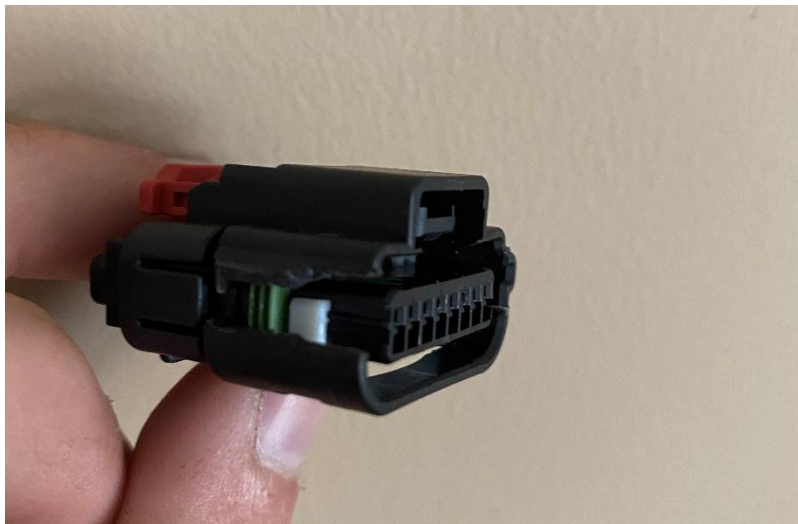


- You can Dremel out the hole for these sensors in each LED Light. You will see that the space is recessed for an easy cut. Be careful not to cut outside of this section.
- Next step is to remove the plastic connector in the housing. A small tool must be used to push a small plastic clip while rotating the connector counterclockwise. A picture of the small pin below: (This picture is taken from the back side. You will have to feel for the pin, you cannot see it)



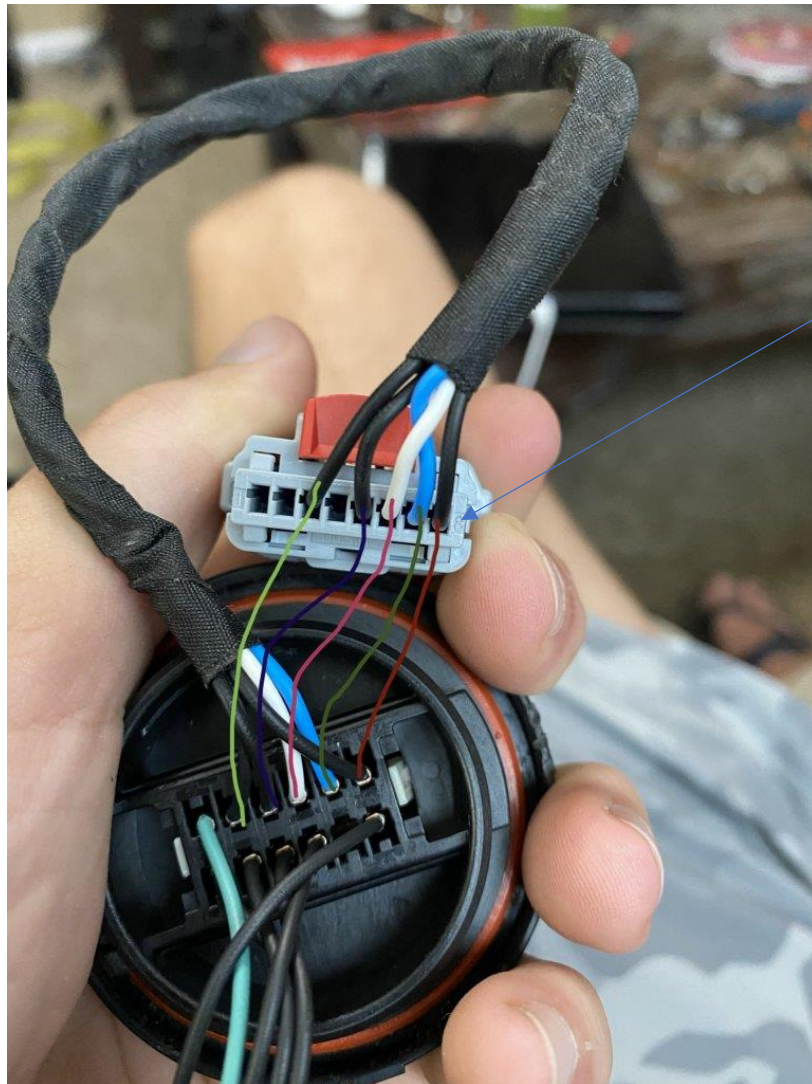
- You will need **2** of these: **31404-8210**. They are the connectors for the BSM Sensor. This will need to be slightly modified to work. (One side of the connector will need to be cut. you will see when you try to install it)
- This connector requires these pins to work: **306-SAIT-A03T-M064**. You need at least **10 total** for both lights, but I recommend ordering more in case you mess something up.

- As of this writing, I am not sure what the part no. is for the pins on the other side. They look like this (**10 of these are needed**):



- Image of the modified connector.

- The correct pin locations for these are below:



8

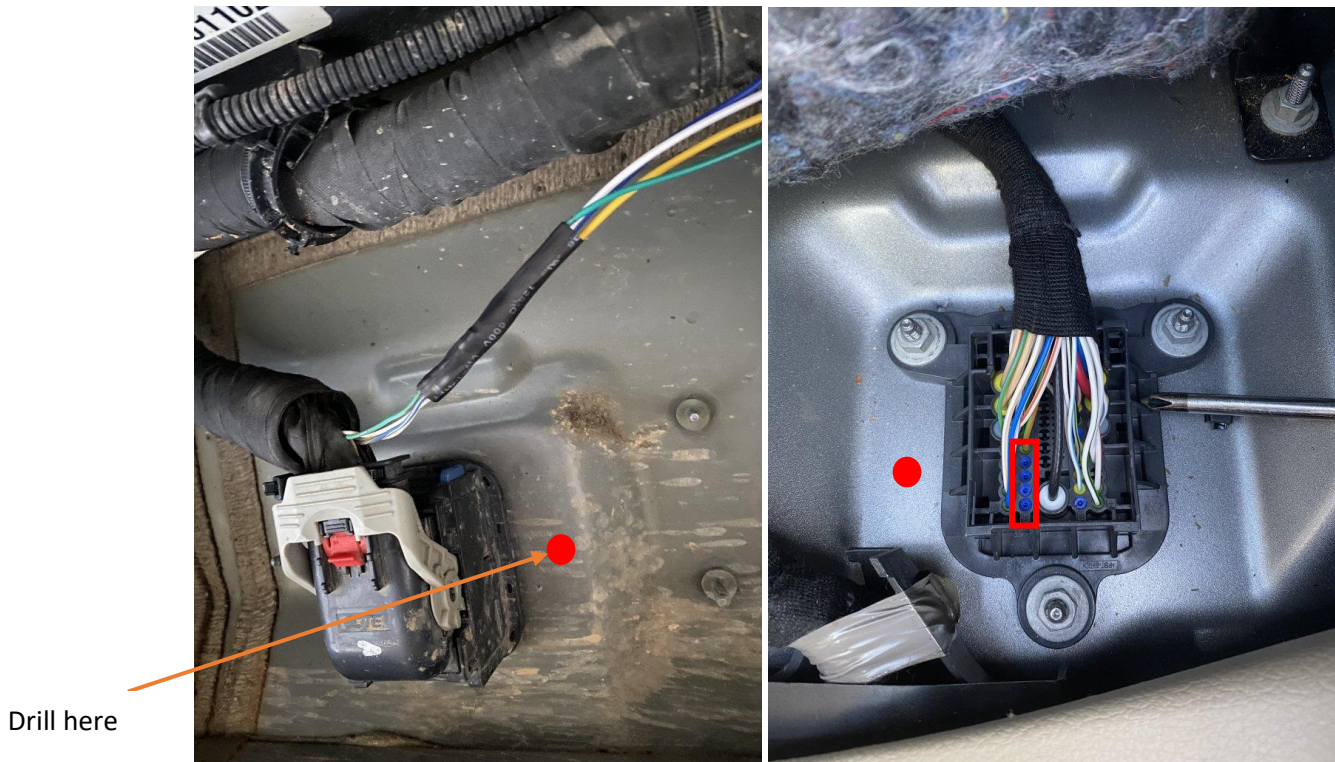


- Wire everything up and install the BSM Sensors. I recommend additional sealant around the brackets.
- Before installing the led lights back in the truck, the “jumper” harness is needed for each side to replace the stock one that doesn’t have the wiring. PN: **68357220AC** (driver) & **68357222AC** (passenger). You could also re-pin the existing plugs if you wanted to save a buck.
- Taillights can now be reinstalled.

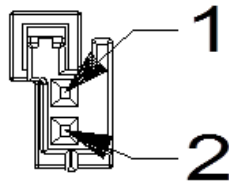
2. You will need to buy 2 of the connectors below and 4 pins to accommodate them. You will have to make a harness that goes from under the truck to the CAN IHS located to the left of where the drivers left foot would rest. Buy 2 of **5-2138650-1** and 4 receptacle tabs **5-963715-1** along with some twisted 22-gauge wire.



- If you climb under the truck below the driver seat, you will see this connector. The 4 wires at pin locations 39, 40, 41, and 42 will need to be cut and extended. The wire colors are Blue/White, White, Green/White, White. The pins are labeled on the connector if you look close enough. This connector is located directly beneath the driver's seat on the inside. You can see the missing pins below. (you can re-pin this plug, but it's double sealed. Cutting the wires is an easier process and I don't know the pin part numbers.)



- Extend these wires and drill a small hole through the floor and send them up into the cabin. Use a silicone sealant and seal the hole from the inside and outside.
- Extend these wires to the CAN IHS located to the left of the drivers left foot. The plastic trim piece will need to be removed to access it. You will see the CAN IHS. The wiring is as follows:
 - Pin 39 (Dark Blue / White) to CAN IHS 1 (+)
 - Pin 40 (White) to CAN IHS 2 (-)
 - Pin 41 (Dark Green / White) to CAN IHS 1 (+)
 - Pin 42 (White) to CAN IHS 2 (-)



- Once this wiring is done, plug the connectors into any open slot on the CAN IHS:



- Now you are ready to enable the following in alpha obd:
 - Cabin Net-LBSM Left Blind Spot Module – Enable
 - Cabin Net-RBSM Right Blind Spot Module – Enable
 - CustSetMenu 1-Blind Spot Alert CSM – Yes
 - Veh Config 7-Active Blind Spot Present – Yes
 - Car Configuration Change: Doors-Blindspot Mirror Present - Yes
- This will now enable blind spot detection. Until you replace the mirrors with the correct ones, you will only hear audio alerts when you turn your blinker on and there's someone in your blind spot.

