

**Radar Blind Spot Brackets for  
2015-Current Toyota Camry  
(Part # RDBS-1410)**

**\*\*\*REQUIRES RDBS-1400 UNIVERSAL RADAR BLIND SPOT SYSTEM\*\*\***

**Please read thoroughly before starting installation  
and check that kit contents are complete.**

**Items Included in the Kit:**

Driver side radar mounting bracket  
Passenger side radar mounting bracket  
8 ¾-inch stainless steel Phillips screws  
4 1-inch stainless steel Phillips screws  
16 Nyloc stainless steel nuts  
16 5mm stainless steel washers  
8 self-tapping ¼-inch drive screws  
Paper template for Driver and passenger side  
1 Rustec rust inhibitor

**Tools & Supplies Required:**

¼-inch and ½-inch drill bit  
¾-inch bi-metal hole saw  
¼ inch, 7mm, 8mm and 10mm sockets  
Power drill  
Deburring tool or round file  
Multi-meter or computer safe test light  
Zip ties and electrical tape  
Plastic trim removal tool  
Protractor (for measuring angles)

**Smart phone app: iHandy Level or Bubble level**



**Safety Precautions:**

- Work in a well-ventilated area that is clear of obstructions.
- Secure vehicle with tire chucks in both front and rear of tires.
- Turn vehicle accessories OFF and ensure ignition key is in OFF position.
- Wear safety goggles and snug fitting clothes.
- Use tools only for their intended purpose and which are in good repair.
- Only perform this task if confidence, skill, and physical ability permit.

**NOTE: We strive to provide accurate and up-to-date installation instructions.  
For the latest full color instructions please visit [www.brandmotion.com](http://www.brandmotion.com)**

**SECTION 1: REMOVE REAR BUMPER FASCIA**

1. Starting at the rear wheel wells and moving backwards, remove any screws or bolts holding on fascia.







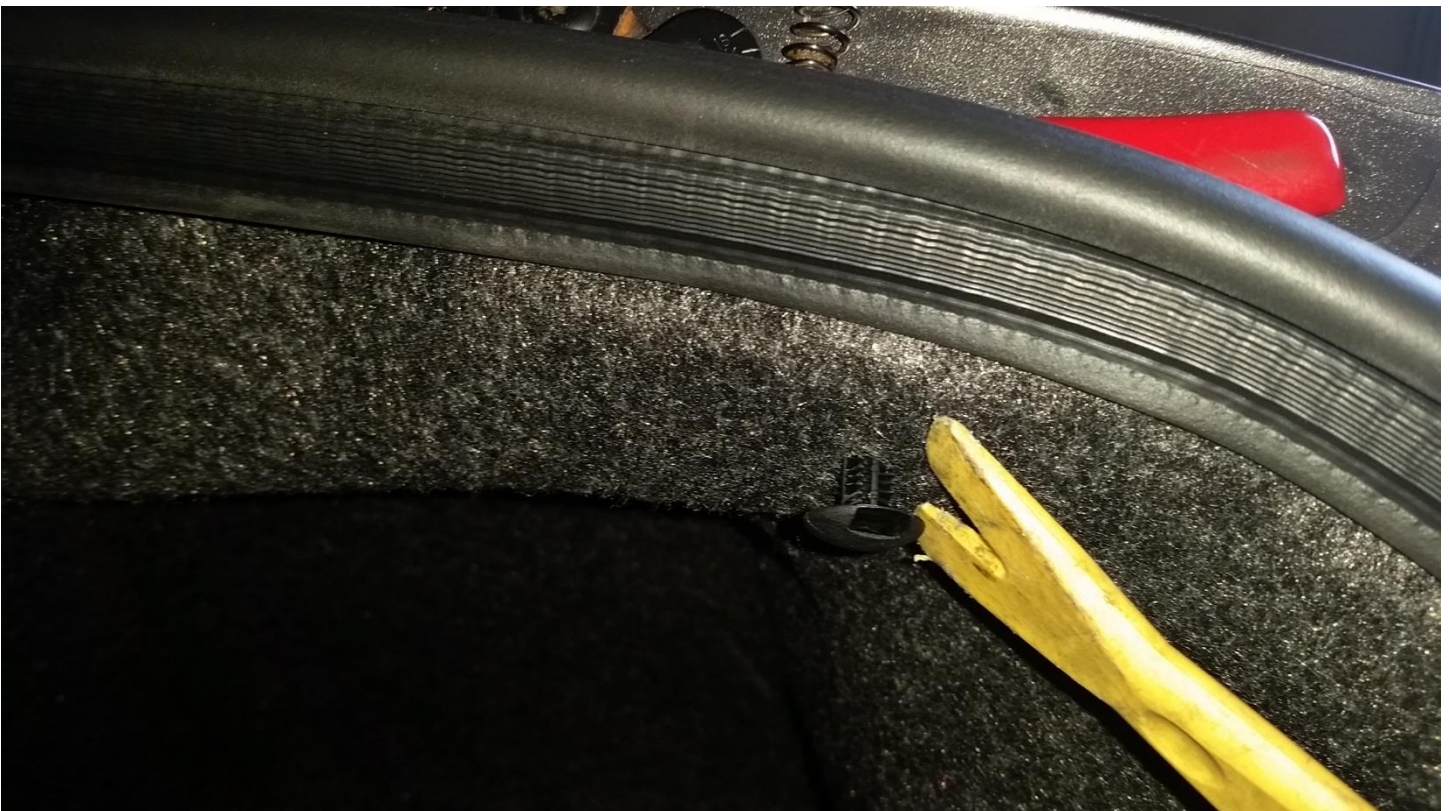
2. This step will require assistance. One person should hold the bumper fascia, while the other removes the fascia from the vehicle body. On the driver's side of the upper bumper fascia, use a plastic pry tool and begin to unsnap the fascia from the body working from the wheel well toward the rear of the vehicle. Repeat removing bumper fascia from passenger side.



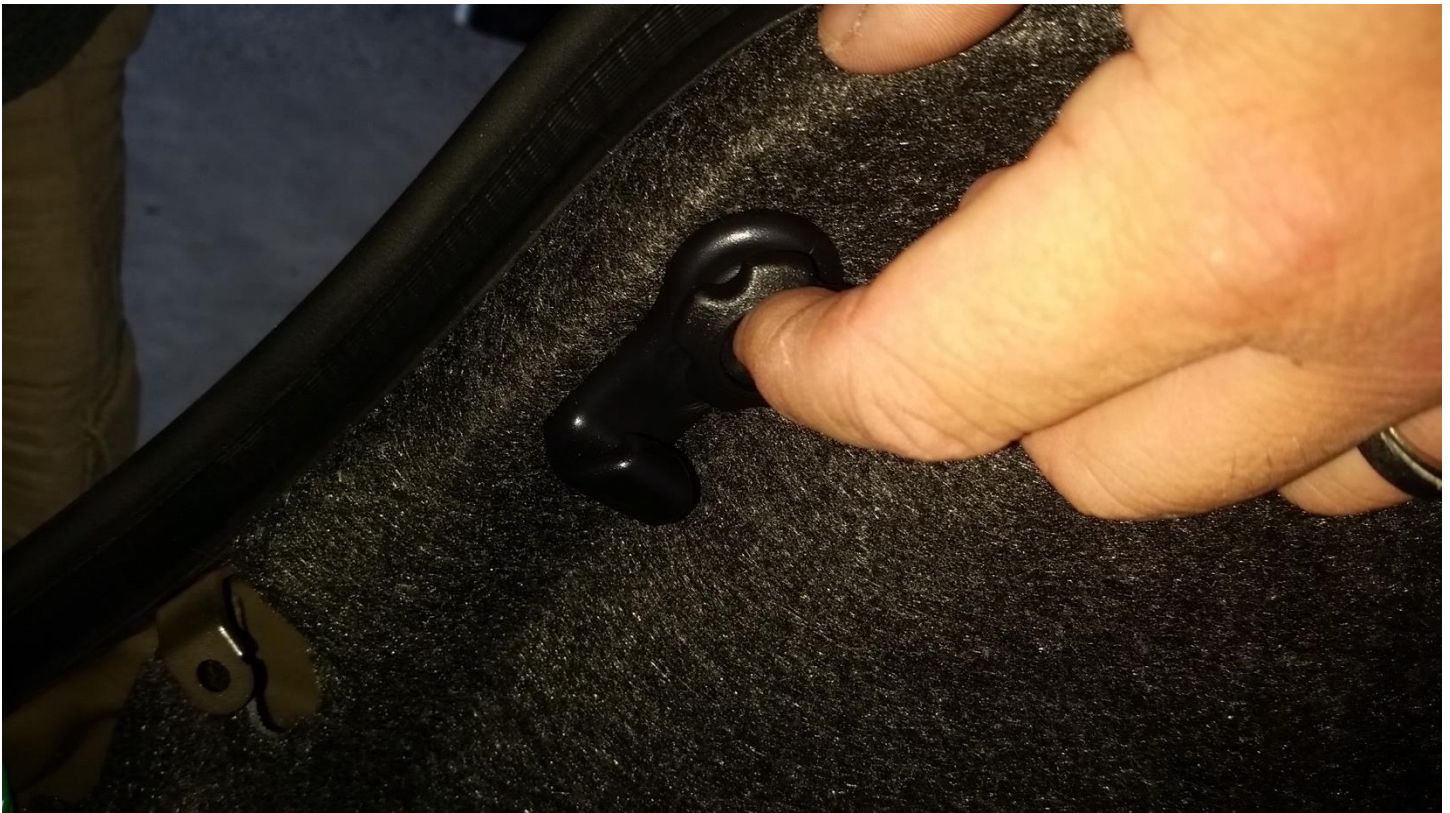




3. Lift the bumper fascia off the bumper (checking for any wiring or harnesses that may need to be disconnected) and set aside in a safe place.
4. Remove the interior carpet from the inside of the trunk and floor.













**SECTION 2: ATTACH BRACKETS and SENSORS**

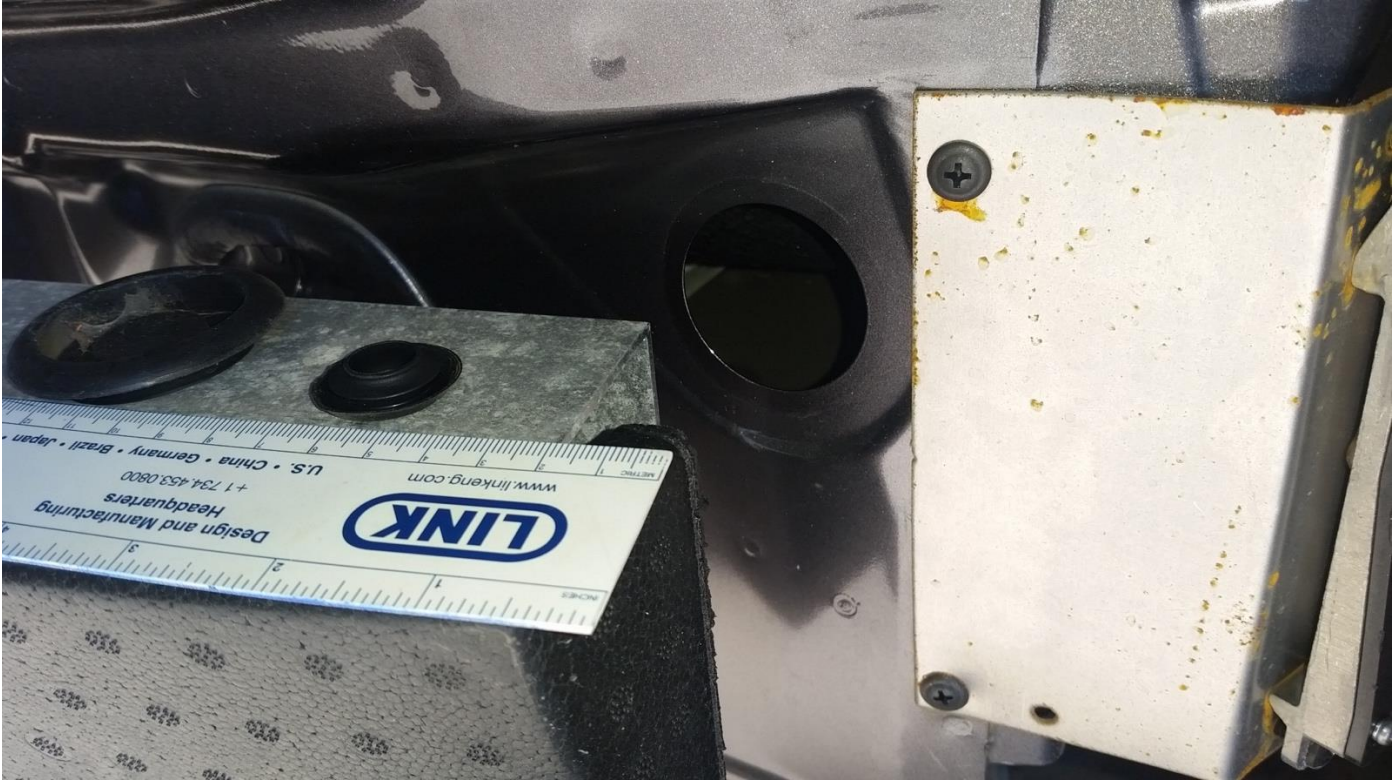
1. Cut the (2) BSD bracket templates out and use them to line up the outer screw holes.
2. Working on the passenger's side, remove the grommet behind the end of the bumper and use to make and hold the BSD bracket template.





## INSTALLATION INSTRUCTIONS

3. After bracket is test-fitted and screw holes are marked, insert the 4 Phillips screws from the backside and attaching them with the 10mm Nyloc nuts from the front. Screw threads will extend past the nuts.
4. Use a protractor or smart phone app to check the angle for the radars is **57°** from the back of the vehicle. The elevation angle from top to bottom should be **1° to 2.5°**.
5. Attach assembled bracket to vehicle using supplied self-tapping screws.



Bottom legs may not mount to any thing on certain models.



## INSTALLATION INSTRUCTIONS

6. Mount radar sensor on the four studs with the connector pointing down (MASTER radar sensor mounts to driver's side, SLAVE mounts to passenger side). Secure sensor to studs with 4 additional Nyloc nuts.
7. Repeat steps 1-5 on the driver side of vehicle.
8. Remove the grommet on the driver's side on the vehicle and insert the new grommet into the opening. (If the factory grommet is larger then the new grommet then cut a small hole in the factory grommet to insert the new grommet.)

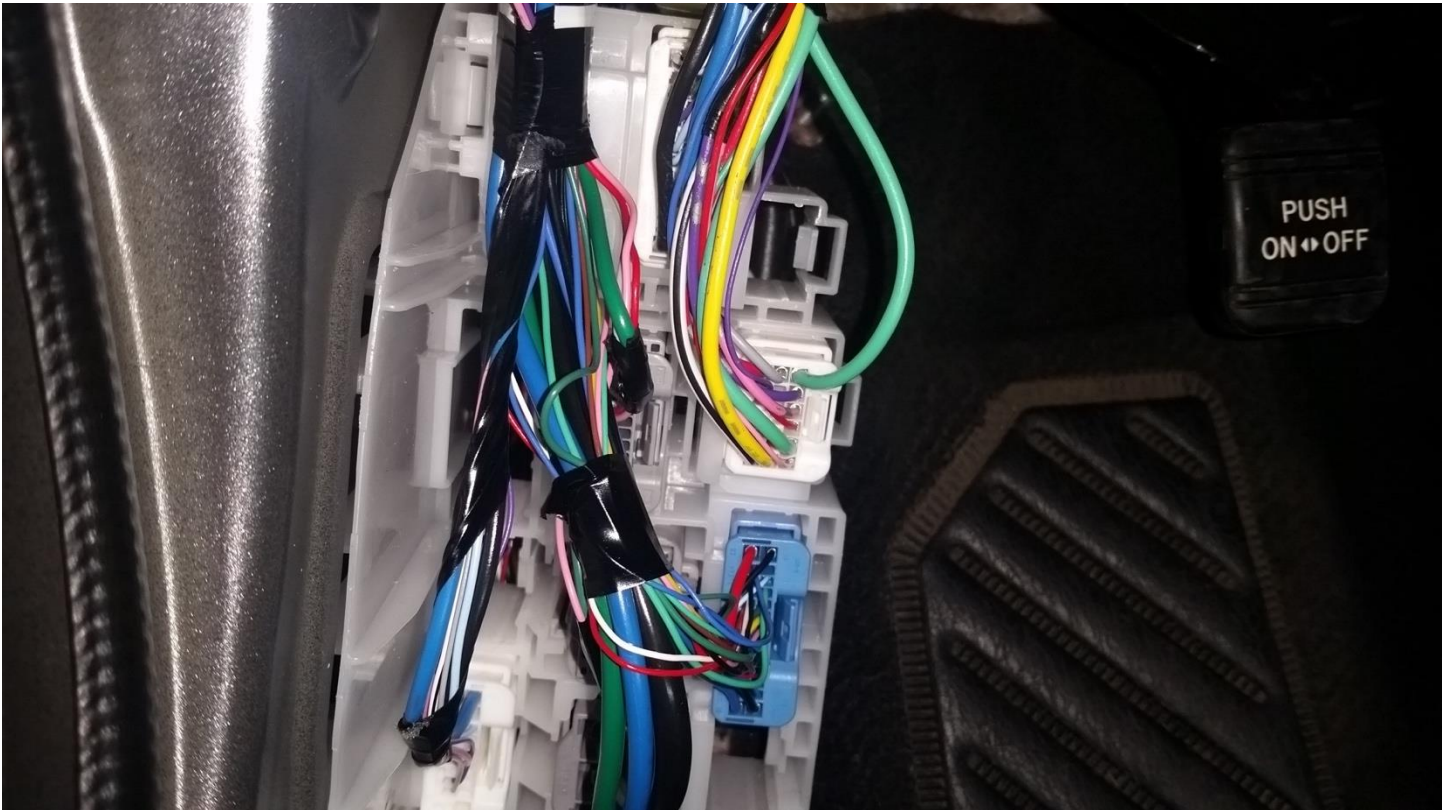


9. Pull interior harness back up through the hole to reseal grommet.
10. Connect shortest length wired connector to MASTER radar module. Route the GREEN wire and the longer wired connector over to the passenger side.
11. Secure the wire running across the back of the vehicle with zip ties.



**SECTION 3: INTERIOR WIRING HARNESS**

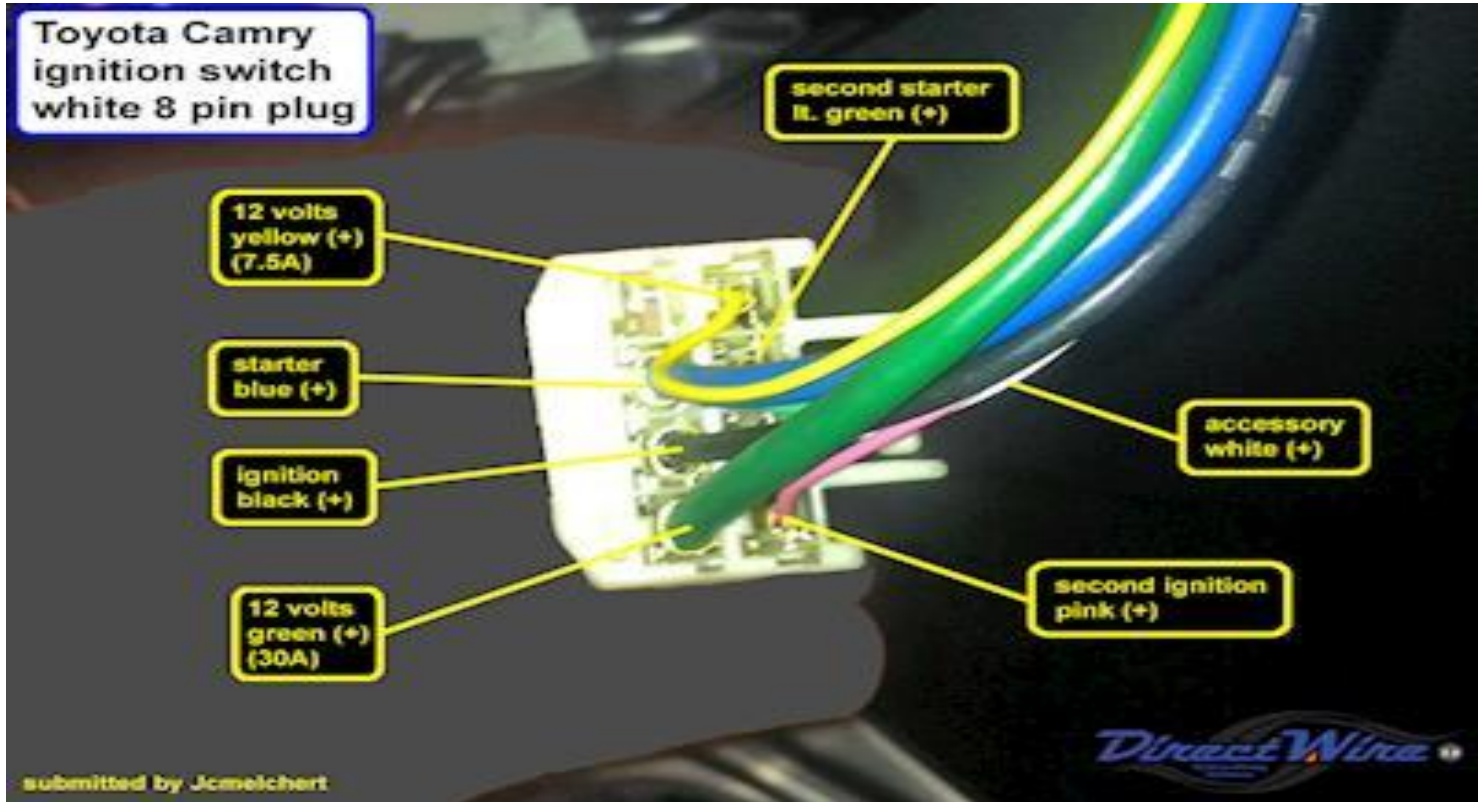
1. Inside the vehicle, remove the sill panels from the front and rear driver's side doors.
2. Remove driver's side kick panel and under dash cover.
3. Route the interior harness from the rear storage area to the front driver-side kick panel.



4. Splice the GREEN wire from chassis harness to the GREEN wire at the DASH FUSE BOX. White 36 pin plug, pin 19. This should be the RIGHT turn signal. Test the wire with a multimeter to confirm it is the RIGHT turn signal positive wire.
5. Splice the YELLOW wire from chassis harness to the YELLOW wire at the DASH FUSE BOX. White 36 pin plug, pin 22. This should be the LEFT turn signal. Test the wire with a multimeter to confirm it is the LEFT turn signal positive wire.
6. Splice the WHITE wire from chassis harness to the PINK wire at the DASH FUSE BOX. White 36 pin plug, pin 7. This should be the REVERSE lights. Test the wire with a multimeter to confirm it is the REVERSE lights positive wire.
7. Splice the BROWN wire from chassis harness to the PINK wire at the DASH FUSE BOX. White 36 pin plug pin 5. This should be the positive PARKING LIGHTS. Test the wire with a multimeter to confirm it is the PARKING LIGHTS positive wire.



8. Splice the RED wire from the interior harness to the WHITE wire at the IGNITION SWITCH. White 8 pin plug, pin 2. Use the supplied fuse holder and 3A fuse, and splice into the RED wire approximately 3 inches from the previous spliced connection.



9. Attach the black plastic-coated wire with the ringlet from the interior harness to a good, clean ground in the vehicle.

#### **SECTION 4: INSTALL HMI (warning lights) and BUZZER**

1. Plug in HMI (human-machine interface) harness to interior harness. The short wire with connector goes to the driver's side and the longer wire goes to the passenger side.
2. Remove both driver and passenger A-pillar covers from vehicle.





3. Find a visible location low on the A-pillars covers to mount HMI.
4. Mark the location on both A-pillar covers and using a ½-inch drill bit, carefully drill through each A-pillar.



5. Insert HMI into drilled hole and secure from the back side of A-pillar cover using retaining washer.



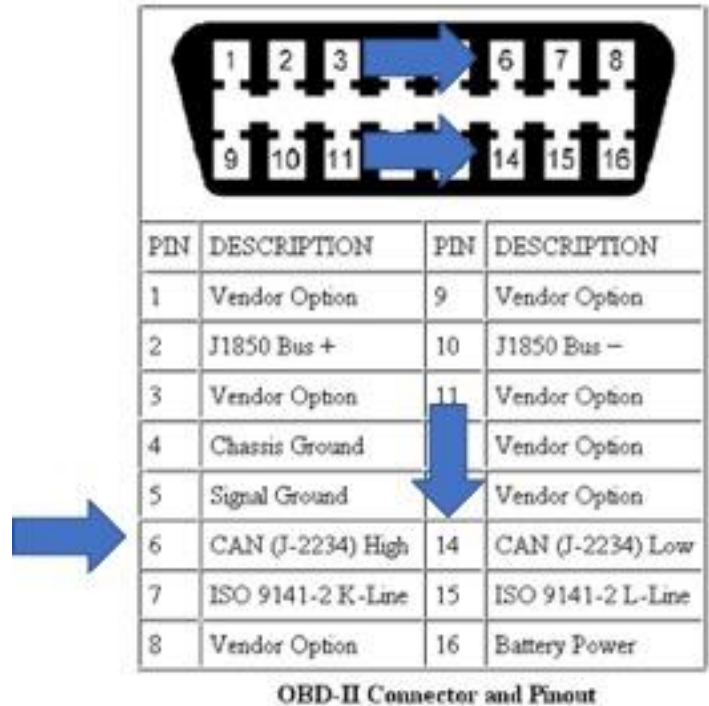


6. Plug in HMI to HMI harness and re-attach A-pillar covers to appropriate sides, taking care not to pinch HMI harness wires.
7. Plug the buzzer into the interior harness. Find a flat surface to mount the buzzer to and remove backing of double-sided tape to attach to preferred location. (The more hidden the location is, the lower the buzzer volume will be.)

## INSTALLATION INSTRUCTIONS

### SECTION 5: INSTALL ECU INTO VEHICLE

1. Plug the interior harness into the ECU.
2. Determine best mounting position for ECU.
3. Mount the ECU.
4. Attach BLUE CAN HI wire from the ECU to pin location 6 on the vehicle's OBDII connector and attach the BROWN CAN LO wire from the ECU to pin location 14 on the vehicle's OBDII connector.

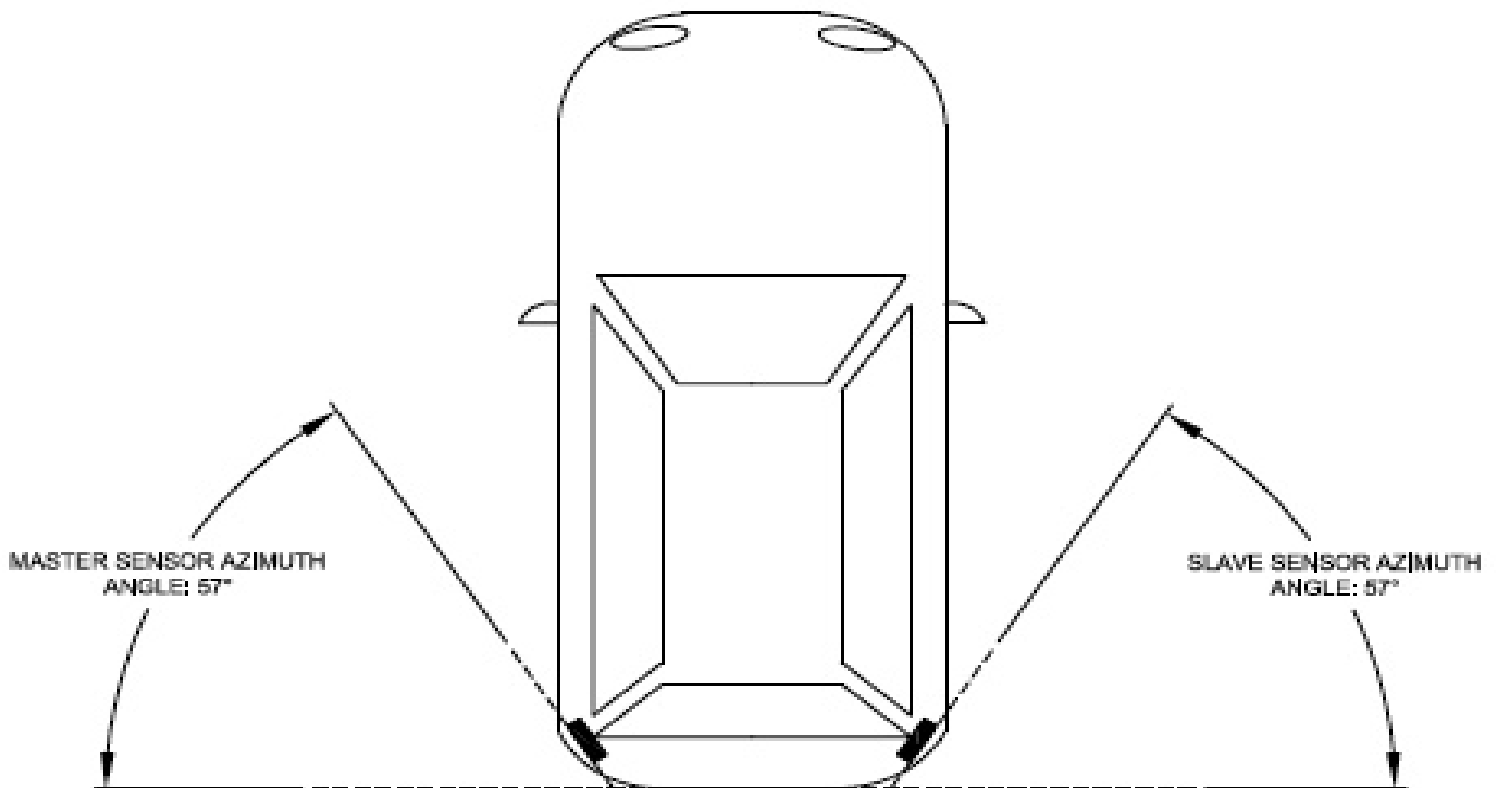
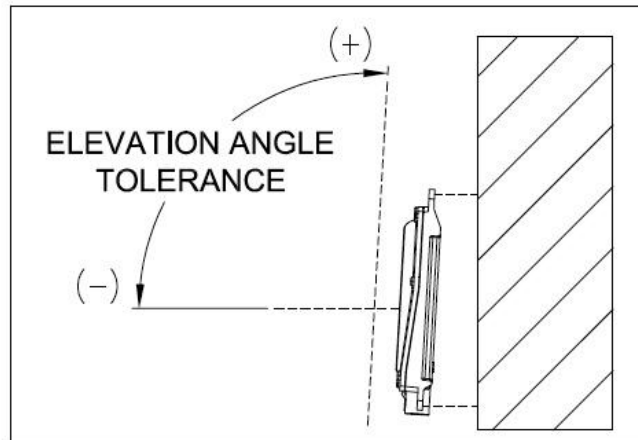
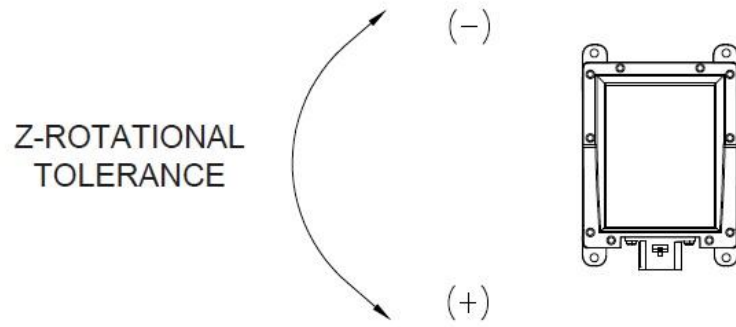


### SECTION 6: REASSEMBLE VEHICLE

1. Before reassembling vehicle and reattaching bumper fascia, it is highly recommended to test the blind spot system to make sure it is functioning properly (detecting objects behind or approaching from the sides while the vehicle is in reverse and at speeds above 20 MPH). If detection fails, it may be necessary to shim radar modules 1 degree up or down using included washer shims or longer 1-inch screw studs.
2. Use ***Smart phone app: iHandy Level or Bubble level*** to test angles.
3. Reassemble vehicle, following steps in reverse order. Test the blind spot system again to ensure proper functioning of the radar units under the rear bumper fascia.

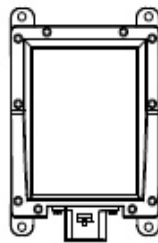
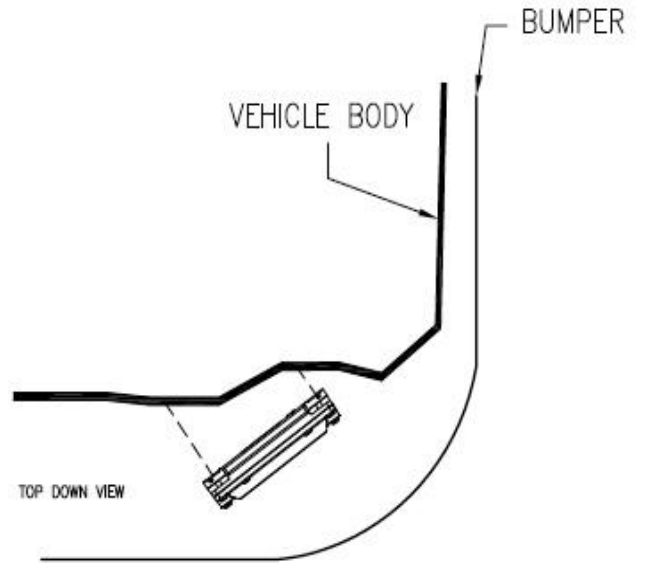
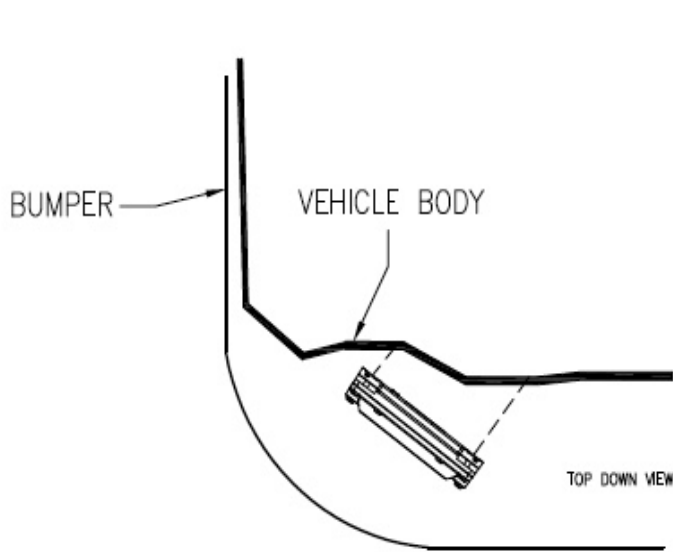


# INSTALLATION INSTRUCTIONS



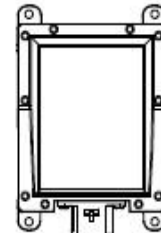
DETAIL MASTER SENSOR

DETAIL SLAVE SENSOR



FRONT VIEW

MASTER SENSOR CONNECTOR FACING DOWN:  
VIEW FROM REAR OF VEHICLE



FRONT VIEW

SLAVE SENSOR CONNECTOR FACING DOWN:  
VIEW FROM REAR OF VEHICLE

BSD Sensor Position Parameters	Ideal Value	Tolerance	
		(-)	(+)
Z Rotational (in degrees)	0	-3	+3
Azimuth Angle (in degrees)	57	-2.5	+2.5
Elevation Angle (in degrees)	1	-0.5	+2.5



