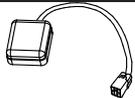
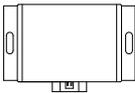
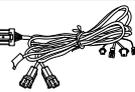
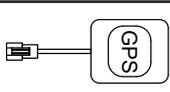
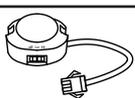
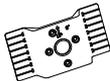


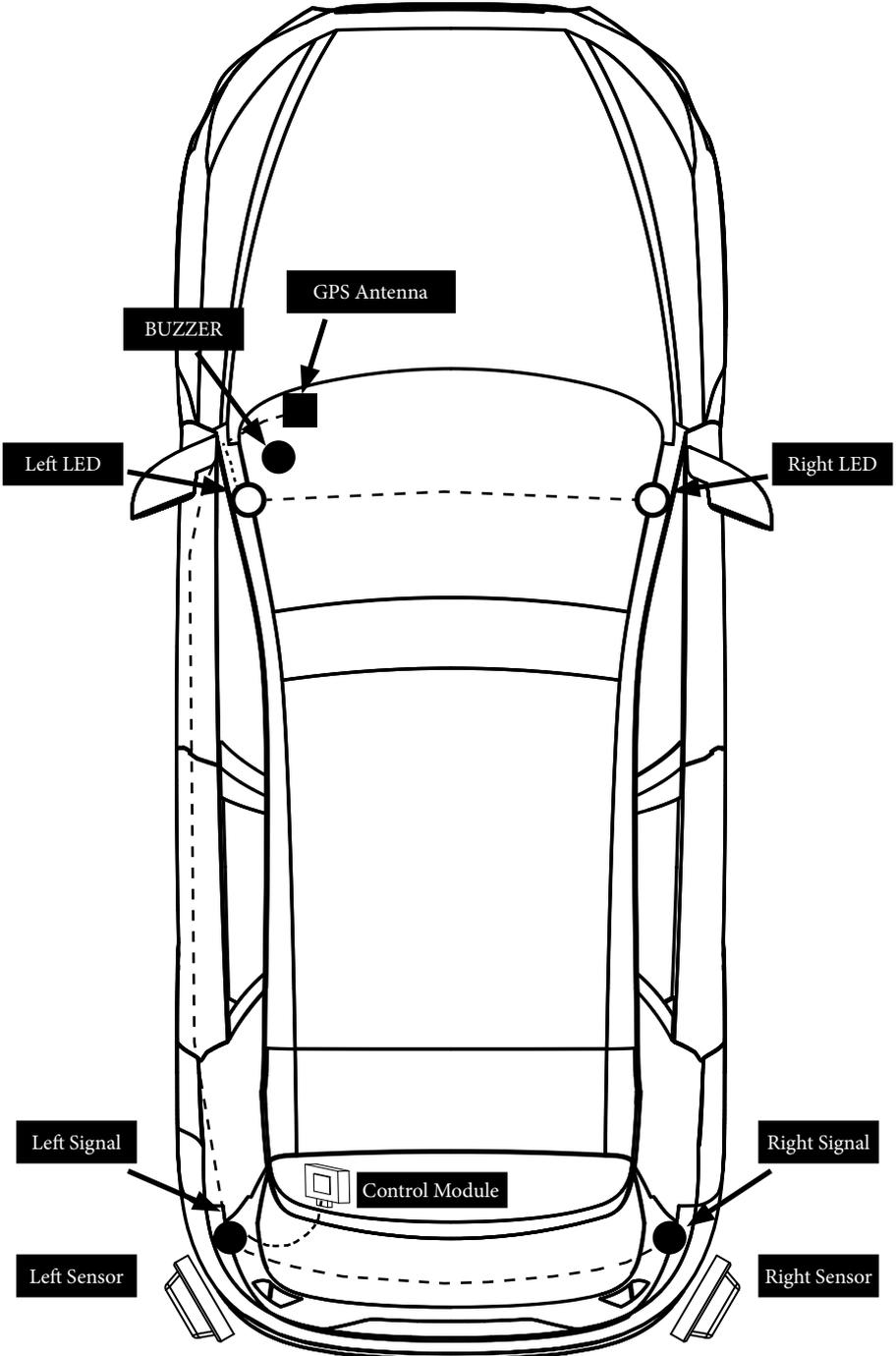


Installation Guide

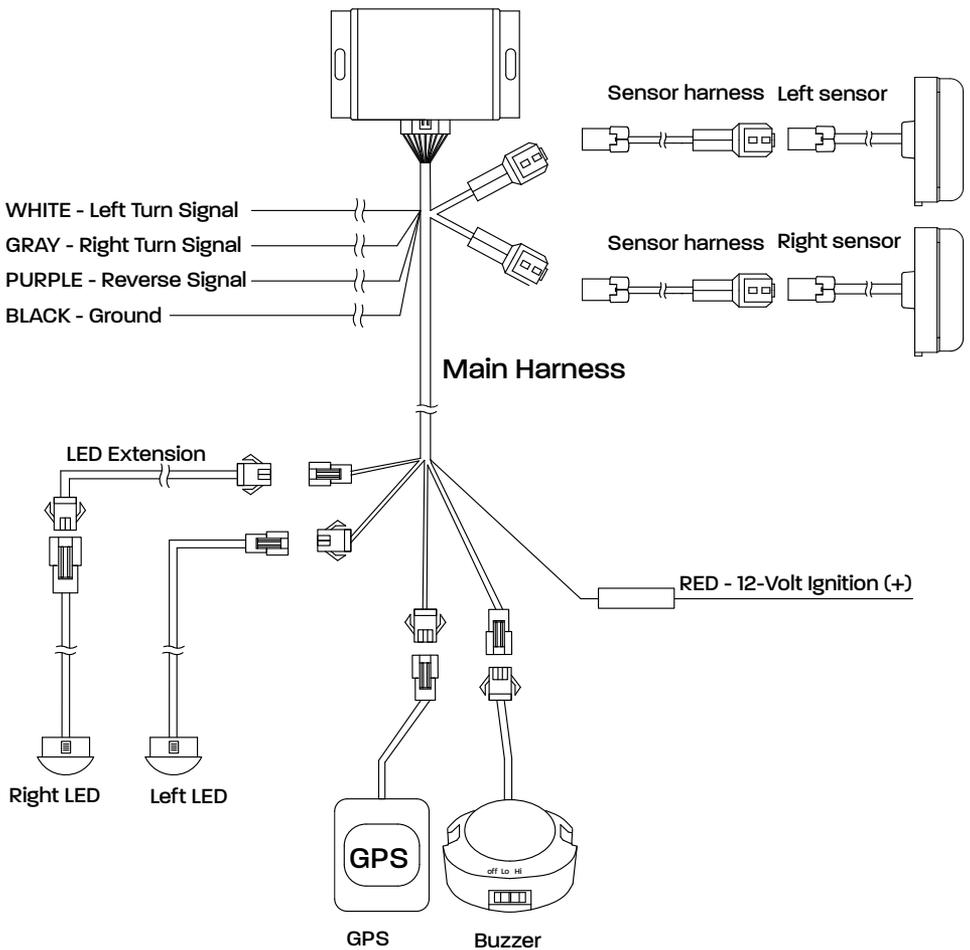
Blind Spot Detection / ADVBSD30

Kit Contents

NO.	Item	QTY.	Image
1	BSD Sensor	2	 A small rectangular sensor with a cable and a connector.
2	Control Module	1	 A rectangular module with a handle on the left and a connector on the right.
3	Main Harness	1	 A bundle of wires with various connectors.
4	Sensor Harness	2	 A bundle of wires with connectors.
5	GPS Antenna	1	 A cable with a connector and a rectangular antenna labeled 'GPS'.
6	LED Indicator	2	 A cable with a connector and a small LED indicator.
7	LED Extension	1	 A cable with connectors at both ends.
8	Buzzer	1	 A circular buzzer with a cable and a connector.
9	Metal Mounting Bracket	2	 A long, thin metal bracket with a connector.
10	Plastic Mounting Bracket	8	 A small plastic bracket with a connector.
11	Sensor Alignment Tool	1	 A long, thin tool with a handle and a pointed end.
12	Installation Hardware Kit	1	 A small package containing hardware.
11	Install / Owner's Guides	2	 A rectangular guide or manual.



Harness Layout



Installation Tools and Tips

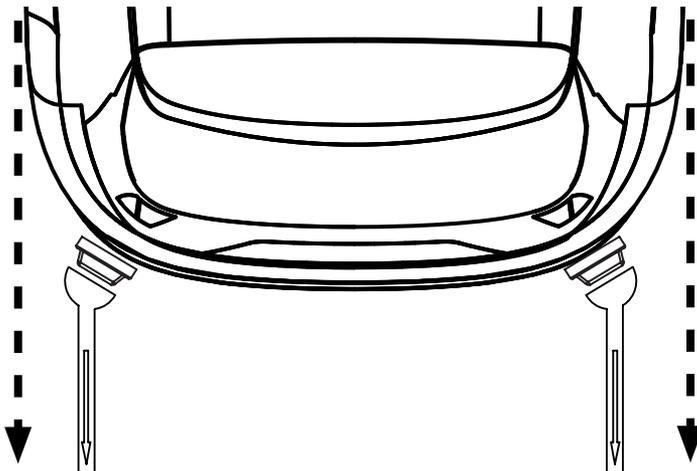
- Drill
- Painters Tape
- Plastic pry bars
- Philips/Flathead screwdrivers
- Surface cleaner (i.e. rubbing alcohol)
- Sockets and wrenches
- Zip ties
- Rag

1. Disconnect vehicle battery to prevent damage.
2. To avoid drilling holes, look for and use 'grommets' for bumper access.
3. Angle sensor more toward the back of vehicle than the front or side.
4. Please do not pull on the wires to remove the connectors.
5. Be sure connectors are properly secured and "Click" when inserted.
6. Please use the supplied cable ties to fasten harness while installing – make sure to keep taught and conserve slack.

BSD Sensor Installation

1 A. Bumper Mount Installation

1. The BSD sensors will be installed to both inner corners of the rear bumper cover.
2. Using a ruler, locate an installation area 20 to 40 inches from the ground and mark height line with painters tape.
3. The BSD sensor will be installed at a 30° angle.
4. Use the included alignment tool to locate the proper angle and installation area. The alignment tool should be parallel to the vehicle's body line. Use the image below as a guide to find the ideal mounting location.
5. Make note of the vertical Angle of the vehicle's bumper. The sensor should be mounted +/- 3° perpendicular to the road.
6. Locate the pair of mount brackets (0°, 10°, -10°, 20°) that will provide the correct vertical mounting angle.
7. Remove the vehicle's bumper.



Installation

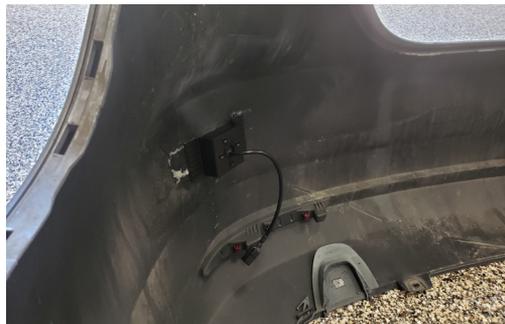
1 B. Install Right BSD Sensor

1. Clean installation surface on the opposite side of your tape mark, and let the surface dry.
2. Attach Right BSD sensor to plastic surface mount bracket using the supplied screws. This bracket will also set the vehicle angle discussed in steps 5-6 of Section 1 A.
3. Install Right BSD sensor with "UP" arrow pointing in the up direction.
4. Connect BSD Harness to Right BSD sensor.
5. Connect BSD Harness to Main Harness.



1 C. Install Left BSD Sensor

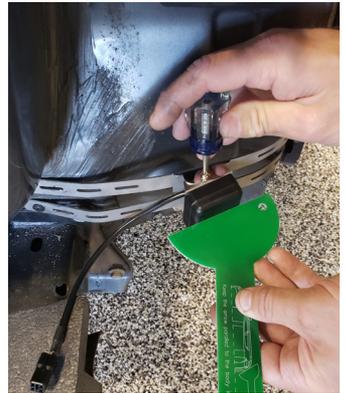
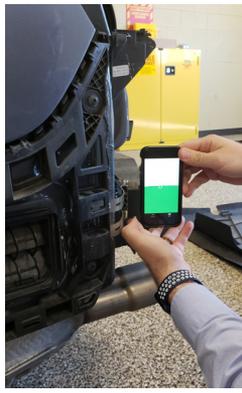
1. Clean installation surface on the opposite side of your tape mark, and let the surface dry.
2. Attach Left BSD sensor to plastic surface mount bracket using the supplied screws. This bracket will also set the vehicle angle discussed in steps 5-6 of Section 1 A.
3. Install LEFT BSD sensor with "UP" arrow pointing in the up direction.
4. Connect BSD Harness to Left BSD sensor.
5. Connect BSD Harness to Main Harness.



2 A. Body Mount Installation

1. The BSD sensors can be installed to both corners of vehicle body behind the plastic bumper cover. The kit includes 2 metal mounting brackets to secure the BSD sensor to the vehicle.
2. Remove the Vehicle's plastic bumper cover.
3. Using a ruler, locate an installation area 20 to 40 inches from the ground and mark height line with painters tape or a marker.
4. The BSD sensor will be installed at a 30° angle.
5. Secure the metal mounting bracket to the vehicle. Use the included alignment tool as a guide to find the proper mounting angle. The alignment tool should be parallel to the vehicle's side body line. Use the image below as a guide to find the ideal mounting location.
6. Use the supplied screws to mount the BSD Sensor to the metal mounting bracket.
7. After mounting the sensor to the bracket, Check the BSD sensor angle again. Use the Fine adjustment bracket to ensure the sensor is properly positioned.
8. Repeat steps 3-7 on the opposite side.

Note: The BSD sensors should be mounted perpendicular to the road +/- 3°



Control Box Installation

3 A. Control Box Installation

1. Find accessible location to mount the control box. This location will need to be accessed to complete installation.
2. Securely mount the control box using screws or 2 sided adhesive tape.
3. Connect BSD Main Harness to Control Box.
4. Route BSD sensor harnesses to the BSD sensor locations.

Installation

3 B. Connect Right Turn Signal Wire

1. Access right brake light assembly.
2. Locate and test the factory right turn signal trigger wire.
3. Connect the BSD's GRAY Right Turn Signal wire to the vehicle's right turn signal trigger wire.

3 C. Connect Left Turn Signal Wire

1. Access Left right brake light assembly.
2. Locate and test the factory left turn signal trigger wire.
3. Connect BSD's WHITE Left Turn Signal wire to the vehicle's left turn signal trigger wire.

3 D. Connect Reverse Trigger Wire

1. Locate and access the reverse light assembly.
2. Locate and test the factory reverse trigger wire.
3. Connect the BSD's PURPLE Reverse Signal wire to the vehicle's reverse trigger wire.

3 E. Connect Ground (-) Wire

1. Locate suitable location for the BSD Ground (-) wire. Always check both sides of the vehicle's body before drilling to prevent damage to the vehicle.
2. Use a self tapping screw to secure the Ground (-) wire to the vehicle chassis.

3 F. Route Main Harness to Front of Vehicle

1. Use interior trim panels to route wires to the Driver's side front of vehicle.
2. Route to area with 12-Volt (+) Accessory access.
3. Locate a suitable 12-Volt (+) Accessory wire in the vehicle.
4. Connect the BSD's RED 12-Volt (+) Accessory to the vehicle's 12-Volt Accessory wire.

LED, GPS, & Buzzer Installation

4 A. Left LED Installation

1. Locate a suitable location for the Left LED indicator.
2. Drill a 5/8 inch hole the vehicle's trim panel and mount the Left LED indicator. Always Check both sides of the trim panel before drilling to prevent damage to the vehicle.
3. Route the LED harness to the main harness and make a secure connection.

4 B. Right LED Installation

1. Locate a suitable location for the Right LED indicator.
2. Drill a 5/8 inch hole in the vehicle's trim panel and mount the Right LED indicator. Always Check both sides of the trim panel before drilling to prevent damage to the vehicle.
3. Using the LED Extension harness, route the LED harness to the main harness and make a secure connection.

4 C. Buzzer Installation

1. Locate a suitable location for the Buzzer. This location should be accessible to the driver to make volume adjustments.
2. Use the supplied 2 sided adhesive tape to secure the buzzer to the vehicle's trim panel.
3. Route the Buzzer harness to the main harness and make a secure connection.

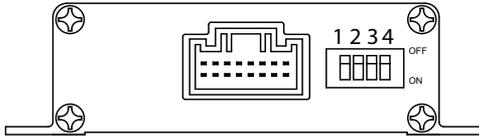
4 D. GPS Installation

1. Locate a suitable location for the GPS Antenna. This location should have an unobstructed path to the sky. Any metal between the GPS Antenna and the satellites will cause GPS connection problems.
2. Use the supplied 2 sided adhesive tape to secure the GPS Antenna to the vehicle's trim panel.
3. Route the GPS Antenna harness to the main harness and make a secure connection.

Configuration And Testing

5 A. Dip Switch Setting

The control Module has 4 dip switch settings that should be reviewed before testing.



No.	Switch status	Definition	Note
1	Off	Buzzer Duration 5 Seconds	Default
	On	Buzzer Duration 2 Seconds	
2	Off	NA	Default
	On	NA	
3	Off	GPS Control OFF	Default
	On	GPS Control On @ 15 m/h	
4	Off	BSD warning area is 30ft	Default
	On	BSD warning area is 15ft	

Dip Switch Description

1. Buzzer Duration

OFF - Buzzer will sound for 2 seconds when a vehicle is detected in the blind spot detection area when the turn signal is activated.

ON - Buzzer will sound for 5 seconds when a vehicle is detected in the blind spot detection area when the turn signal is activated.

2. N/A

3. GPS Control

OFF - GPS Antenna will not control activation of the BSD system. The system will be functional anytime the vehicle is powered ON.

ON - GPS Antenna will activate or deactivate the BSD system at 15 m/h.

4. Warning Area I

OFF - Warning Area I detection area will be 30 feet.

ON - Warning Area I detection area will be 15 feet.

After reassembling the vehicle the system should be tested on the road in highway and surface street conditions. This system is capable of detecting a vehicle traveling in both directions, Passing and Overtaking.

Note: If using the GPS Speed control, the vehicle will need to be traveling above 15 m/h for the system to be active.

5 B. Right Sensor Testing

Vehicle Passing

Drive the vehicle above 15 m/h. When a vehicle approaches from behind on the right side of your vehicle, the right LED indicator should illuminate. While the Right LED is illuminated, activate the vehicle's Right turn signal. The system should begin to flash the LED and sound the buzzer for 2 or 5 seconds.

Vehicle Overtaking

Drive the vehicle above 15 m/h. When your vehicle approaches and overtakes another vehicle on the right side, the Right LED indicator should illuminate. While the Right LED is illuminated, activate the vehicle's Right turn signal. The system should begin to flash the LED and sound the buzzer for 2 or 5 seconds.

5 C. Left Sensor Testing

Vehicle Passing

Drive the vehicle above 15 m/h. When a vehicle approaches from behind on the left side of your vehicle, the Left LED indicator should illuminate. While the Left LED is illuminated, activate the vehicle's Left turn signal. The system should begin to flash the LED and sound the buzzer for 2 or 5 seconds.

Vehicle Overtaking

Drive the vehicle above 15 m/h. When your vehicle approaches and overtakes another vehicle on the left side, the Left LED indicator should illuminate. While the Left LED is illuminated, activate the vehicle's Left turn signal. The system should begin to flash the LED and sound the buzzer for 2 or 5 seconds.

5 D. Rear Cross Traffic Testing

Park the vehicle in a heavily traveled parking lot. With your foot securely on the brake, shift the vehicle into reverse gear. When a vehicle enters the detection area from the Left or Right, the system will flash the LED indicators and sound the buzzer for 2 or 5 seconds.

Note: The approaching vehicle must be traveling above 5 m/h. This system will not detect any vehicle traveling below 5 m/h.

**For customer or technical support please call Voxx Support:
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