



INSTALLATION GUIDE

RV BLIND SPOT DETECTION SYSTEM: FOR TOWABLES

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1. WARNING

1. THE RV BLIND SPOT DETECTION SYSTEM DOES NOT REPLACE ANY FUNCTIONS DRIVERS SHALL ORDINARILY PERFORM IN DRIVING A MOTOR VEHICLE, NOR DOES IT DECREASE THE NEED FOR DRIVERS TO STAY VIGILANT AND ALERT IN ALL DRIVING CONDITIONS, TO OBEY ALL THE SAFE DRIVING STANDARDS, PRACTICES, TRAFFIC RULES AND REGULATIONS.
2. CUB DOES NOT GUARANTEE 100% ACCURACY IN THE DETECTION OF VEHICLES OR PEDESTRIANS, AND THEREFORE DOES NOT GUARANTEE THE PERFORMANCE OF ANY RELATED AUDIO OR VISUAL WARNING SIGNALS. FURTHERMORE, ROAD, WEATHER AND OTHER CONDITIONS MAY ADVERSELY AFFECT THE VEHICLE'S BLIND SPOT DETECTION SYSTEM RECOGNITION AND RESPONSE CAPABILITIES.
3. CAREFULLY READ THIS INSTALLATION GUIDE AND ITS IMPORTANT SAFETY INSTRUCTIONS AND WARNINGS PRIOR TO INSTALLING OR USING THE RV BSD SYSTEM.
4. IT IS RECOMMENDED THAT THE INSTALLATION BE CARRIED OUT BY QUALIFIED PERSONNEL.



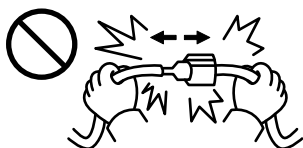
Wear proper protective gear



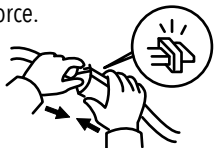
Deburr edges and use grommets



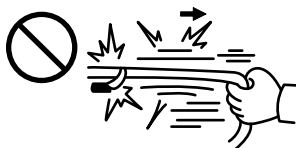
Use appropriate torque to fasten



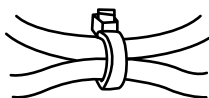
Do not pull the connectors with excessive force.



Fasten all connectors and terminals securely.

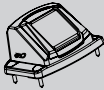
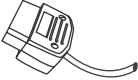


Do not pull the harness with excessive force.



Stress relieve harnesses and secure properly.

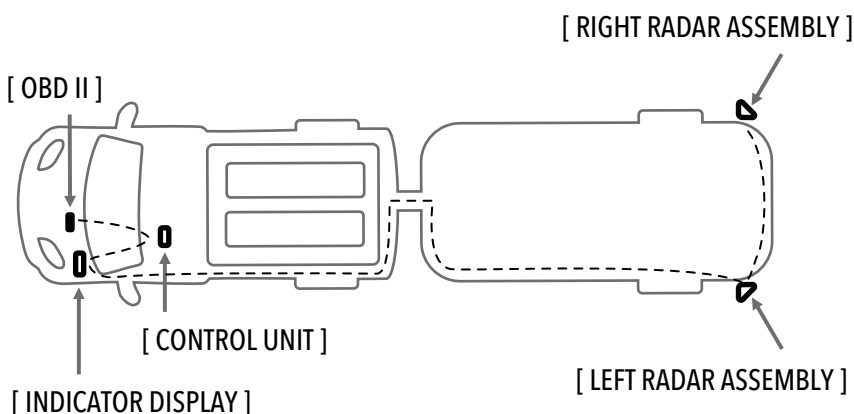
2. SYSTEM CONTENTS

No.	ITEM	Qt'y	PICTURE
1	Right RV Radar	1	
2	Left RV Radar	1	
3	Radar Mounting Gasket	2	
4	Control Unit	1	
5	Indicator Display	1	
6	Trailer Harness Set	1	
7	Tow Vehicle Harness Set	1	
8	OBD II Cable	1	
9	Manual Set/Accessories	1	

3. SYSTEM SPECIFICATIONS

No.	ITEM	SPECIFICATIONS
1	Operating Temperature	-40°C ~ +80°C
2	Storage Temperature	-40°C ~ +85°C
3	Environmental Protection Level	Radar : IP67
4	Input Voltage Range	9V - 16V
5	Current Consumption	Max. 800mA ± 5% @12V
6	Alarm Level	Level I : LED On (Constant) Level II : LED Flash+Buzzer On
7	Specifications	ISO 17387/ISO 16750
8	Radiation Regulations	FCC / NCC

4. SYSTEM LAYOUT



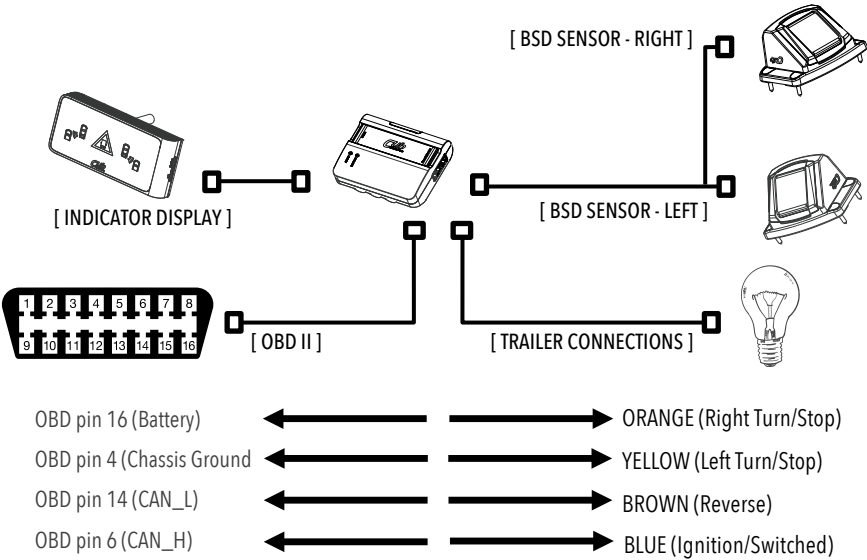
5. INSTALLATION

5.1 TOOLS REQUIRED

Painter's Tape	Philips & Flathead Screwdrivers	Sockets & Wrenches
Plastic Pry Bars	Surface Cleaner (i.e. rubbing alcohol)	Rags
Tape Measure	Level	Pliers & Cutters
Electric Drill	Torque Wrench	

- 1. Look for and use grommets for vehicle access to avoid drilling holes.
- 2. Ensure all harnesses are fully connected and locked in.
- 3. Use cable ties to fasten harness while installing.

5.2 SYSTEM BLOCK



5. INSTALLATION

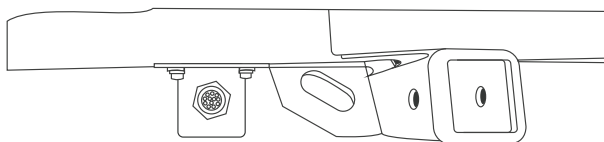
5.3 TRAILER INSTALLATION

1. The BSD sensors will be installed to sides of the trailer.
2. Locate an installation area between 29 - 41 inches from the ground and mark height line with painter's tape.
3. Locate the radar within 8 inches from the rear of the trailer that is parallel to lane markings.
4. Level the sensor to be parallel to the ground.
5. You may have to remove panels and covers to install the sensors.
6. Use the Radar Mounting Gasket as a template to pre-drill the installation holes.
7. Use qualified hardware to affix the sensor.
8. Connect harnesses and electrical connections.
9. Secure all harnesses using cable ties.

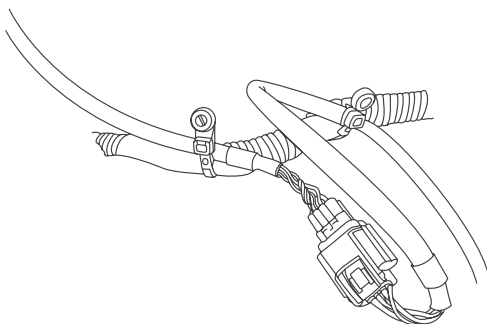
5. INSTALLATION

5.4 TOW VEHICLE INSTALLATION

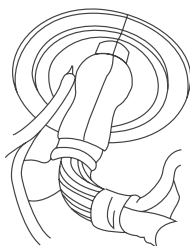
1. Locate a suitable location for the Blind Spot System Quick Disconnect Connector and Bracket. Affix it to the vehicle using qualified hardware.



2. Route harness assembly from the hitch connector to your engine bay grommet to pass the harness into the cabin. Secure the harness away from heat sources and moving parts. Affix it to the vehicle using cable ties.

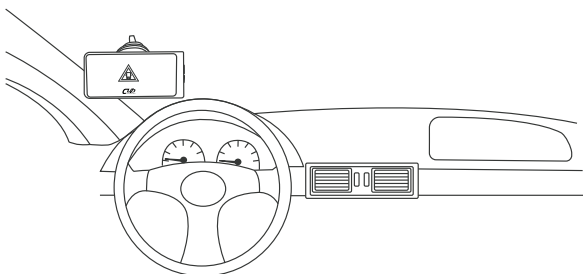


3. Pass the harness through the grommet ensuring the harness and connector do not become damaged. Route the harness to the desired location which the Control Unit will be installed.

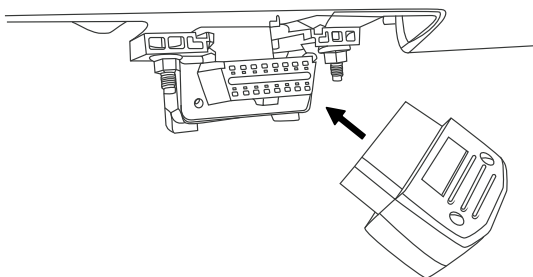


5. INSTALLATION

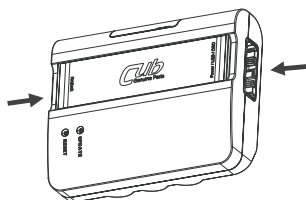
4. Select a location for the indicator to be installed. Affix the indicator to the desired location.



5. Locate the OBD-II connector and connect the adapter to the socket. Route the harness to the desired location for the Control Unit to be installed.



6. Connect IGN lead to a switched power source (i.e. cigarette lighter, radio accessory power, ignition switch).
7. Connect all the connections then route the harness to the Control Unit and affix the unit in a safe location in the vehicle (i.e. under the dashboard, under the seat, inside the console). Connect the harness connectors to the Control Unit.



6. ERROR DIAGNOSTICS

It is possible that the Blind Spot Detection System will trigger an alert even though there is no vehicle in the blind spot zone. The Blind Spot Detection System can detect objects such as: construction barrels, guard rails, lamp posts, etc. Occasional false alerts are normal.

STATUS	SOUND
Controller HMI CAN TX Failed	Do Re Mi
Radar System Error - Master	Do Re Mi
Sleep Mode	1 second beep, stop .5 second & 1 second beep
System Initialization	3 second beep

7. TROUBLESHOOTING

ISSUE	SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Power On Self-test	The system does not respond after starting the engine	Incorrect connection or control unit failure	Confirm that the IGN, wiring, fuse, and controller are connected.
	The indicator does not light up	Damaged indicator	Contact your dealer
		Disconnected indicator	Verify connection
	The buzzer makes no sound	Damaged buzzer	Contact your dealer
		Disconnected buzzer	Verify connection
	The power switch does not work	Damaged power switch	Contact your dealer
		Disconnected power switch	Verify connection, press and hold the switch for 2 seconds.
System Operation	[Do Re Mi] alarm	Radar disconnection or no OBD connection	Abnormal power supply, wiring, or radar, please contact your dealer.
	Did not enter sleep mode after 5 minutes of IGN off	IGN lead connected to constant power	Change the IGN to a switched power source connection location
Functions	No Level 1 BSD alert	Vehicle speed is less than 12 mph	Normal operation
		Bad connection from OBDII	The vehicle is not compatible. Please contact the dealer.
			Press the RESET button on the control unit after starting the engine. Check the system again after the reboot is completed.
	No Level 2 BSD alert	Turn signal leads not connected	Confirm turn signal leads are connected
	No RCTA alert	Reverse lead not connected	Confirm that the reverse lead is connected

