

**cub**

## OPERATION GUIDE

**RV BLIND SPOT DETECTION SYSTEM: FOR TOWABLES**  
**CHIMR**

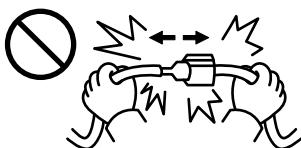
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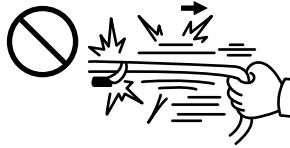
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# 1. WARNING

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 OPERATION 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.



Do not pull the connectors with excessive force.



Do not pull the harness with excessive force.

## FCC STATEMENT:

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS:

- (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND
- (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

NOTE: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS B DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE IN A RESIDENTIAL INSTALLATION.

THIS EQUIPMENT GENERATES, USES AND CAN RADIATE RADIO FREQUENCY ENERGY AND, IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTIONS, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. HOWEVER, THERE IS NO GUARANTEE THAT INTERFERENCE WILL NOT OCCUR IN A PARTICULAR INSTALLATION.

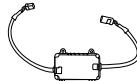
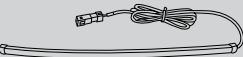
IF THIS EQUIPMENT DOES CAUSE HARMFUL INTERFERENCE TO RADIO OR TELEVISION RECEPTION, WHICH CAN BE DETERMINED BY TURNING THE EQUIPMENT OFF AND ON, THE USER IS ENCOURAGED TO TRY TO CORRECT THE INTERFERENCE BY ONE OR MORE OF THE FOLLOWING MEASURES:

- REORIENT OR RELOCATE THE RECEIVING ANTENNA.
- INCREASE THE SEPARATION BETWEEN THE EQUIPMENT AND RECEIVER.
- CONNECT THE EQUIPMENT INTO AN OUTLET ON A CIRCUIT DIFFERENT FROM THAT TO WHICH THE RECEIVER IS CONNECTED.
- CONSULT THE DEALER OR AN EXPERIENCED RADIO/TV TECHNICIAN FOR HELP.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

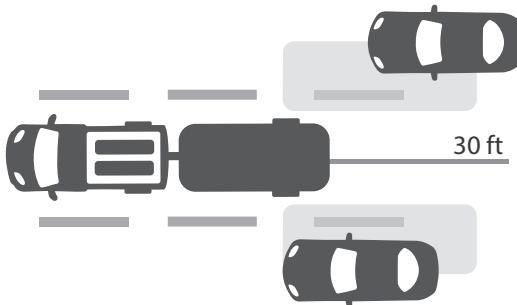
- THIS EQUIPMENT COMPLIES WITH FCC RADIATION EXPOSURE LIMITS SET FORTH FOR AN UNCONTROLLED ENVIRONMENT. THIS EQUIPMENT SHOULD BE INSTALLED AND OPERATED WITH A MINIMUM DISTANCE OF 20 CM BETWEEN THE RADIATOR AND A HUMAN BODY.

## 2. SYSTEM CONTENTS

No.	ITEM	Qt'y	PICTURE
1	Radar Holder	1	
2	Radar	1	
3	Radar Mounting Gasket	1	
4	Control Unit	1	
5	Manual Set/Accessories	1	
<b>FOR SELECT KITS</b>			
6	Trailer Harness Set	1	
7	Indicators	2	

### 3. INTRODUCTION

The RV Blind Spot Detection System is designed to aid in detecting vehicles that may have entered the vehicle blind spot zone, which is represented by the vehicles in the diagram below. The detection area is on both sides of your trailer, extending rearward from the trailer to approximately 30 feet beyond the trailer. The system is designed to alert you of vehicles, which will not allow for a safe lane change.



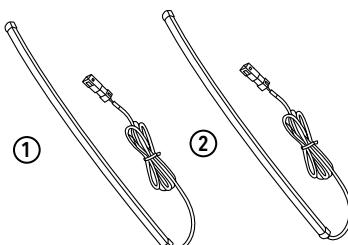
### 4. SYSTEM SPECIFICATIONS

No.	ITEM	SPECIFICATIONS
1	Operating Temperature	-20°C ~ +60°C
2	Storage Temperature	-20°C ~ +60°C
3	Environmental Protection Level	Radar + Holder : IP69K
4	Input Voltage Range	10.5V ~ 16V
5	Current Consumption	Max. 800mA ± 5% @12V
6	Alarm Level	Level I : LED On (Constant) Level II : LED Flash
7	Specifications	ISO 17387/ISO 16750
8	Radiation Regulations	FCC

## 5. OPERATION

### Indicators

- ① Left Side Blind Spot Indicator
- ② Right Side Blind Spot Indicator



### System Power

1. The system will automatically activate when the trailer is connected. The warning indicator lamps ① ② illuminate for 3 seconds during startup.
2. The system will automatically power off and deactivate after 2 hours of no activity. The indicators ① ② will flash twice.

### System Activation

1. Connect trailer to tow vehicle along with all safety equipment and electrical connections.
2. Indicator lamps ① ② will illuminate for 3 seconds to confirm activation and run self-diagnostics.
3. If there are errors, the system will illuminate the indicator lamps ① ② to indicate a problem. Please use the TROUBLESHOOTING section for more help.
4. The Blind Spot Detection System will begin alerts when you begin driving forward above approximately 12mph.

### Blind Spot Indicator Lamps

1. The left indicator ① will illuminate when a vehicle is in your left blind spot while driving. This indicator will flash when your left turn signal is activated while there is a vehicle in the left blind spot.
2. The right indicator ② will illuminate when a vehicle is in your right blind spot while driving. This indicator will flash when your right turn signal is activated while there is a vehicle in the right blind spot.

## 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	INDICATOR
Radar System Error	Solid Illumination
Sleep Mode	2 Flashes
System Initialization	3 Second Solid

## 7. TROUBLESHOOTING

ISSUE	SYMPTOM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Power On Self-test	The system does not respond after connecting the trailer and the indicator does not light up	Incorrect connection or control unit failure	Confirm that the wiring, fuse, and controller are connected
		Damaged indicator	Contact your dealer
		Disconnected indicator	Verify connection
		Sleep Mode	Step on the foot brake to activate trailer lights
Functions	No Level 1 BSD alert	Vehicle speed is less than 12 mph	Normal operation
		Improper radar height	Correct installation location
		Radar is blocked	Provide a clear field of view from the radar to the road
	No Level 2 BSD alert	Turn signal leads not connected	Confirm turn signal leads are connected

**Cub**

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