Thank you for purchasing our product. Please read this User's Manual before using the product. Change without Notice



AWT3000 Series 4" Grommet Mounted Radar USER MANUAL



Daily Maintenance

Safety Messages to Operators of Vehicles with 3rd Eye Radar

- 1. The 3rd Eye Radar system is intended as an Object Detection System and should not be relied upon as your first line of defense for the safe operation of the vehicle. It should be used in conjunction with established safety programs and procedures to augment the safe operation of the vehicle, ground personnel and adjacent property. Should the system become inoperative, it could jeopardize the safety or livees of those who depend on the system for safety.
- 2. Testing and inspection of the system in accordance with these instructions and record of the results should be listed on the daily maintenance report. The units on operating vehicles must be tested each day prior to the vehicle's operation. Results of this test must be recordeed in maintenance log.
- 3. People operating this equipoment must check for proper operation at the beginning of every shift or safety inspection period.
- 4. People's lives depend on the proper installation of this product in conformance with these instructions. It is necessary to read, understand and follow all instructions shipped with the product.
- 5. Failure to follow all safety precautions and instructions may result in property damage, serious injury or death.
- 6. The 3rd Eye Radar Object Detection system is intended for commercial use. Proper installation of a blind-spot aid requires a good understanding of truck electrical systems and procedures, along with proficiency in the installation.
- 7. Store these instructions in a safe place and refer to them when maintaining and/or reinstalling the product.

Testing and Maintenance

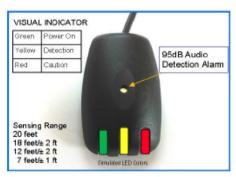
Note: A walk around test should be performed every day to verify proper function of the system and to familiarize the operator with the zone of detection.

More frequent inspections should be performed when:

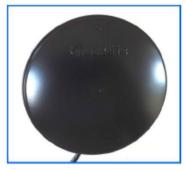
- The vehicle is operating in a particularly dirty or harsh environment.
- The operator has reason to suspect the system has been damaged.
- The test should be performed with two people, one who remains in the cab (the operator), and one who walks through the sensor field to the side of the vehicle (the assistant).
- 1. Clean the sensor face of any accumulation of dirt, mud, snow, ice or debris.
- 2. Visually inspect the attached wiring and cable and verify that they are properly secured, not chafing or dangling free where they could become snagged and damaged. Inspect the Radar Sensor and Operator Display Module and verify that they are securely attached to the vehicle.
- 3. Set the park brakes, start the vehicle, depress and hold the vehicle brake.
- 4. Verify the green "POWER" light is illuminated on the in-cab display.
- 5. The area to the rear of the vehicle should be clear of obstacles for a distance of 3 meters and if the display shows any indicator other than the green light.

3rd Eye MobileVision Radar Sensor and Monitor

DOCUMENT NUMBER:



Radar System - LED & Audible Monitor



Radar System -Sensor



LED & Audible Monitor (Interface Connector)



Radar Sensor (Interface Connector)

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Installation Instructions

Before You Start

Prior to installing the AWT Radar System take time to familiarize yourself with the installation instructions, theory of operation, and system components. Check the contents of the shipping package and verify the following items are included:

- 1 AWT3000-20 Radar Sensor
- 1 AWT123RD Display Unit
- 1 AWT32057/AWT32058 3rd Eye/Radar Adapter Set
- 1 AWT32089 25 foot Interconnect Cable

User Manual/Operating Instructions and drill template

- 1 AWT40700 Sensor Rubber Grommet
- 1 AWT40720 Sensor Steel Mounting Hardware
- 1 Bag 1/4" x 10-24 Bolts, Hex Locking Nuts, and Washers (4)
- 1 Display Mounting Kit: Velcro

Radar/Sensor Location

The AWT Radar sensor mounting location is integral to proper system operation. The sensor should be mounted in the middle of the largest blind spot area and roughly 30" (1M) +/- 12" (0.3M) above the ground. To determine the blind spot area for your particular vehicle, have somebody sit in the driver's seat in the normal driving position and have another person walk the side of the truck noting where the driver loses sight of the person walking around. The sensor face should be mounted perpendicular to the ground with the 4" diameter radar fixture "TOP" graphic in readable position. That is the proper orientation for the radar sensor. Select a location that will provide an unobstructed view of the target hazard area.

Installation

IMPORTANT!

Before the 3rd Eye Radar System is permanently installed on the vehicle, verify that the selected sensor mounted location provides a clear detection zone. Temporarily attach the sensor in the proposed mounting location, apply power to the system, and verify that nothing is being detected.

Radar Sensor Mounting

- 1. Select the appropriate sensor and bracket location.
- 2. Using the metal "L" bracket (AWT40720) use the holes as a template, scribe postion marks through the holes. Drill 1/4" (6mm) holes centered at the marks.
- 3. The correct sensor fixture mounting orientation is the "TOP" up and interface cable entering from the bottom.
- 4. A 1" diameter clearance hole is required for the sensor connector and the mating cable connector.

3rd Eye Radar Sensor Adapter or Cable Installation

The interconnect cable between the radar sensor and radar display may be integrated on either the BodyBuilder Cab Pre-Wire Harness or a 3rd Eye MobileVision Camera System cable. For either of these the installation is basically "plug-n-play" by using the appropriate adapters and radar extensions cables. Please refer to the following diagram that describes in detail the necessary adapters and cables required.

For questions call 866.804.2984

3rd Eye MobileVision Radar System

18-12-7 Feet Detection Zone Walk Test

Testing Instructions

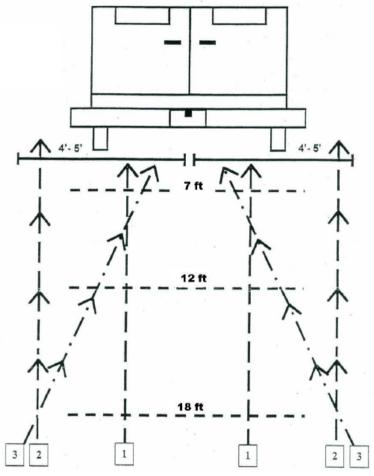
Now that the 3rd Eye MobileVision Radar installation is complete, follow all of the testing instructions listed below to ensure that the system is operating correctly. Do not use the Radar System until you have completed this testing process and have ascertained that the system is working correctly.

WARNING: USE CAUTION WHEN WORKING AROUND ANY BACKING VEHICLES

Step #1: One person should remain in the vehicle at all times. Set the parking brake. Turn the ignition switch on and place it in reverse. At this time, a green light will appear on the interior indicator to indicate that the unit has been activated in the proper manner. If the green light does not come on when the vehicle is placed in reverse, check the system to ensure that it is completely and correctly installed. It is possible if the green light does not come on that there is not enough voltage to the system. Check the battery with a voltage meter to ensure that there is at least 12 volts going to the system.

Step #2: Using a tape measure, mark off a distance of eighteen feet straight out from behind the vehicle. Ask a person to stand there. The vehicle should remain stationary while the person begins to walk toward it from behind. When the person reaches a distance of eighteen feet from the sensor, the interior indicator should turn to a flashing yellow/green light. When the person reaches a distance of twelve feet from the sensor, the interior indicator should turn to a flashing red /green light and sound a fast pulsating noise. When the person is within a distance of seven feet of the sensor, the interior indicator will show a solid red light and the noise should become continuous, warning the driver that an object is dangerously close to the vehicle.

How to Walk Test the AWT3000-20 Radar System (18-12-7)



Do all tests from both sides of the sensor. (1) First, find a spot that is one foot from the side of the sensor and 18 feet back and walk to the side of the sensor at a normal walking pace. You should hear 3 seperate tones at 18 feet, 12 feet and 7 feet. (2) Second, find a spot that is four to five feet outside the sensor and 18 feet back. Walk in a straight line to the outside of the bumper. You should hear two separate tones at 18 feet and 7 feet. (3) Finally, find the same spot that was 4 feet outside of the sensor and 18 feet to teh back (No.2). This time walk in a straight line directly toward the unit from that spot. You should receive the same 3 signals as the first test (NO 1) that you did at 18-7-5 feet.

System Connections

In the truck cab locate the transmission's reverse switch or the back up light circuit wire and connect the red wire from the switched power and ground harness for the radar system. Connect the blackwire of this harness to the vehicle ground.

AWT BODYBUILDER CABLE ASSEMBLY PART#'s ADAPTERS AND CABLES PICTORIAL

DOCUMENT NUMBER:

BCA110309



CAB ADAPTER # 29086



BB CAB PRE-WIRE CABLE



Cables - # AWT32089 - 25 ft # AWT30000 - 40 ft

Radar System Extension



BB EXTENSION CABLE #29089



3rd EYE #AWT030TT CAMERA CABLE



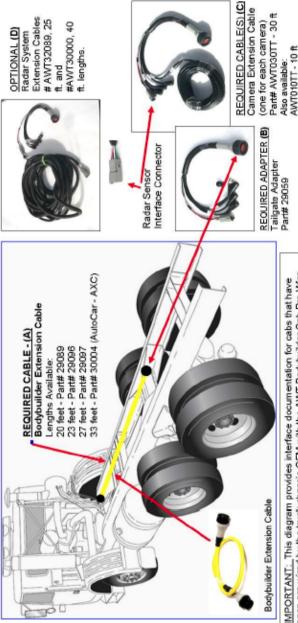
TAILGATE ADAPTER #29059

9940 West Sam Houston Parkway - Ste 330 Date: 11.04.09 Rev: 1 Cell: 574-575-0500 Alliance Wireless Technologies, Inc. Office 866-804-2984 Houston, TX 77099 Drawn by: Ron Silc

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Required Adapters and Cables w/ Part Numbers AWT BODYBUILDER CABLE ASSEMBLY

DOCUMENT NUMBER: BBRC 12.02.09.00

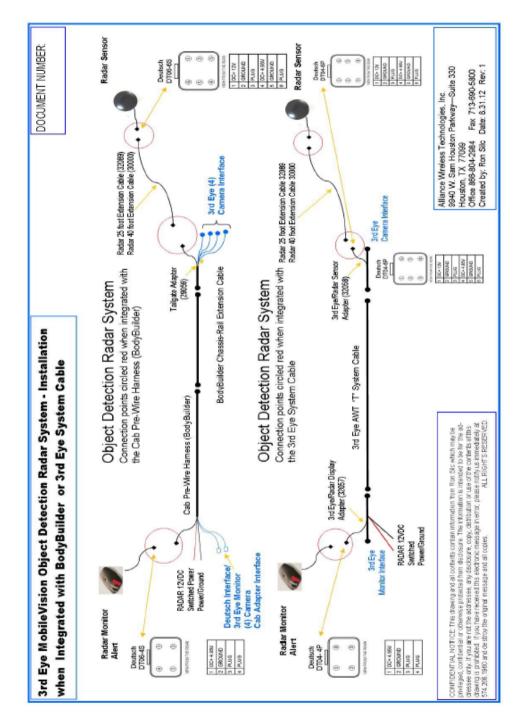


been pre-wired by the truck chassis OEM with the AWT Bodybuilder Cab Pre-Wire IMPORTANT: This diagram provides interface documentation for cabs that have Cable Hamess. Required Cables identified as A, B, C, D.

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AWT025TT - 25 ft. AWT042TT - 42 ft.



DOCUMENT NUMBER:

3rd Eye MobileVision Radar Sensor and Monitor Adapters





AWT123RD - Universal Radar Display





AWT3000-20 - 4" Round Radar Sensor

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