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GUARDIAN ALERT™

Quick-Fit Hitch Direct Connect Hitch

ADVANCED REAR RADAR BACKUP SYSTEM

ESCORT Inc.
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West Chester OH 45069

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Congratulations

You've just purchased the most accurate and thorough reverse obstacle-detection system available—ESCORT Guardian Alert. With ESCORT's advanced, proven radar technology, Guardian Alert adds an unmatched dimension of safety to your vehicle by detecting obstacles in your path and warning of pending collisions when backing up.

Guardian Alert offers the following state-of-the-art performance and features:

- Proprietary three-dimensional technology provides the most comprehensive blind-zone coverage available, scanning and detecting people and obstacles from ground level up to 5 ft. vertically, across the width of your vehicle, and extending 9 ft. behind your vehicle.

- Active warning system provides both audio and visual alerts when an obstacle is detected, versus passive camera warning systems that require the driver to look in the monitor at all times.

- Unlike ultrasonic parking aids, Guardian Alert is unaffected by environmental/weather conditions, such as dirt, snow, rain, salt deposits, wind, and cold operating temperatures.

- Quick-Fit Hitch offers easy installation and convenient removal for towing.

- Direct-Connect Hitch offers equally effective installation via direct connection to the reverse-light wiring for vehicles without a standard power receptacle (professional installation recommended).

Be sure to read this Owner's Manual in detail to get the most out of your Guardian Alert's revolutionary performance and innovative features.

Please drive safely.

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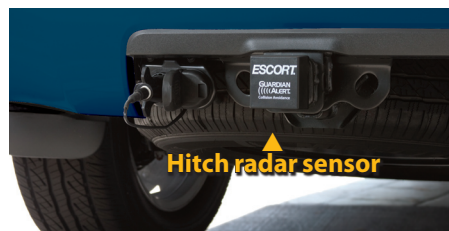
FCC Note: Modifications not expressly approved by the manufacturer could void the user's FCC granted authority to operate the equipment.

Understanding Guardian Alert

How Guardian Alert Works

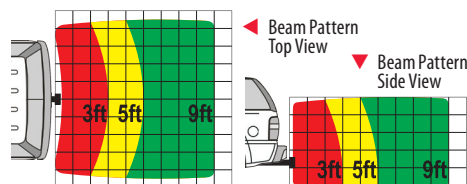
Using ESCORT's proprietary advanced radar technology, Guardian Alert essentially creates a three-dimensional cube of blind-zone coverage, scanning for objects while your vehicle is engaged in reverse. If an obstacle is detected within this cube of coverage while you are backing up, the system alerts you with both an audio and visual warning, preventing injuries and vehicle damage.

NOTE: Each time your vehicle is placed in reverse, Guardian Alert will complete a brief self test, beeping and flashing the alert light to indicate the unit is functioning properly.



Comprehensive Blind-Zone Coverage

All vehicles have unique rear blind zones of varying dimensions. Guardian Alert provides the most comprehensive blind-zone coverage available, scanning from the rear of your vehicle back 9 ft., across the width of your vehicle, and from ground level up to 5 ft. vertically.



All-Weather Performance

Guardian Alert's proprietary advanced radar (microwave) technology not only detects obstacles, preventing backovers and collisions, its performance is unaffected by environmental/weather conditions, such as dirt, snow, rain, salt deposits, wind and cold operating temperatures. Guardian Alert's system will function properly even if totally covered in snow, ice, or mud. Ultrasonic backing aids cannot match this maintenance-free performance.

No Nuisance Notifications

Guardian Alert runs on an operating principle of diminishing distance, which means it senses only the diminishing distance between your vehicle and any object. If the distance between your vehicle and an object does not decrease, a collision cannot occur. By following this operating principle, Guardian Alert is able to avoid nuisance notifications.

No Unnoticed Alerts

To ensure no alert goes unnoticed, the Driver Display comes standard with a 75-dB volume that cannot be adjusted. False alarms are infrequent; therefore, each alert requires your immediate attention. An optional 95-dB volume Driver Display (used mostly in commercial trucks) is also available.

No Interference

Guardian Alert's sensor is pulse modulated so that it will not set off radar detectors or interfere with similar devices. In fact, multiple sensors may be used on the same vehicle.

What's Included

- Hitch Radar Sensor
- Miniature Driver Display Module
- 7-Blade Connector (Quick-Fit only)
- Cable Set
- Velcro Stick Pad, Cable Ties and Alcohol Pad

Installing Guardian Alert

Quick-Fit Hitch Model

Guardian Alert is simple to install. The Quick-Fit Hitch slides directly into a standard 2-in. trailer hitch receiver, and Guardian Alert is powered by the standard seven-way receptacle next to your hitch receiver.

1. Depress the pins on the Guardian Alert sensor and slide it into the hitch receiver until the pins lock into place. Ensure the ESCORT Guardian Alert label is upright.

2. From beneath the rear of the vehicle, insert the provided seven-blade plug into the vehicle's seven-way electrical socket. Connect the four-pin connector to the sensor and the two-pin connector to the seven-blade plug.



3. Feed the 4-ft. Driver Display cable along the rear of the vehicle, up into the rear of the passenger compartment through a body plug or existing cable entry grommet. For vans and SUVs, run along the weather seal.

4. Connect the Driver Display cable to the Driver Display unit. If necessary, use the 12-ft. extension cable to position the Driver Display closer to the driver. Coil and firmly secure any spare Driver Display cable with the provided cable ties.

5. Mount the Driver Display where it will be both visible and audible to the driver (e.g., on the dashboard or positioned above the rear window in a way that it can be seen in the rearview mirror). Prepare the surface with the provided alcohol wipe and mount the Driver Display using the provided Velcro stick pad.

6. Check that the cables were not cut or chafed on installation.

7. Use the cable ties to secure all cables away from moving parts or hot areas.

8. Install the warning label in the driver's view where it will not be damaged.

9. Test the system to ensure the unit was installed properly. For details, see Guardian Alert Testing section of this manual.

Removing For Towing

1. Reach under the hitch receiver and disconnect the plug and socket.

2. Depress the pins on the sensor and slide the sensor out of the receiver.

3. Store the sensor in a safe place within the vehicle for re-installation as soon as towing is completed.

4. Verify that the connector and cable set do not hang to the ground when the sensor is removed for towing.

Re-Installing After Towing

1. Depress the pins on the sensor and slide the sensor into the receiver until the pins lock.

2. Reach under the hitch receiver and connect the plug and socket.

3. Test the system to ensure the unit was re-installed properly. For details, see the Guardian Alert Testing section of this manual.

Direct-Connect Hitch Model

For vehicles without a seven-way power receptacle, Guardian Alert offers a Direct-Connect Hitch option, where the system is wired directly to the reverse-light wiring. This installation is equally effective, since Guardian Alert only operates when a vehicle is in reverse.

NOTE: Professional installation is recommended to ensure the Direct-Connect Hitch is installed correctly. To find a service center capable of installation, consult your local yellow pages and look under "Automotive Accessories."

1. Depress the pins on the Guardian Alert sensor and slide into the hitch receiver until the pins lock into place. Ensure the ESCORT Guardian Alert label is upright.

2. From beneath the rear of the vehicle, connect the four-pin connector to the sensor and the two-wire end of the power cable to the reverse lamp wires.

3. Feed the 4-ft. Driver Display cable along the rear of the vehicle, up into the rear of the passenger compartment through a body plug or existing cable-entry grommet. For vans and SUVs, run along the weather seal.

4. Connect the Driver Display cable to the Driver Display unit. If necessary, use the 12-ft. extension cable to position the Driver Display closer to the driver. Coil and firmly secure any spare Driver Display cable with provided cable ties.

5. Mount the Driver Display where it will be both visible and audible to the driver (e.g., on the dashboard or positioned above the rear window in a way that it can be seen in the rearview mirror). Prepare the surface with the provided alcohol wipe and mount the Driver Display using the provided Velcro stick pad.

6. Check that the cables were not cut or chafed on installation.

7. Use the cable ties to secure all cables away from moving parts or hot areas.

8. Install the warning label in the driver's view where it will not be damaged.

9. Test the system to ensure the unit was installed properly. For details, see the Guardian Alert Testing section of this manual.

Removing For Towing

1. Reach under the hitch receiver and disconnect the plug and socket.

2. Depress the pins on the sensor and slide the sensor out of the receiver.

3. Store the sensor in a safe place within the vehicle for re-installation as soon as towing is completed.

4. Verify that the connector and cable set do not hang to the ground when the sensor is removed for towing.

Re-Installing After Towing

1. Depress the pins on the sensor and slide the sensor into the receiver until the pins lock.

2. Reach under the hitch receiver and connect the plug and socket.

3. Test the system to ensure the unit was re-installed properly. For details, see the Guardian Alert Testing section of this manual.

Testing Guardian Alert

Once installation is complete, follow all of the testing instructions listed below to ensure that the system is operating correctly. Do not use Guardian Alert until you have completed this testing process and have ascertained that the system is working properly.

WARNING! Always use caution when working around backing vehicles. One person should remain in the vehicle at all times.

1. Set the parking break.
2. Turn on the ignition and place the vehicle in reverse. At this time, a green light will appear on the Driver Display 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 also possible that there is not enough voltage to the system. Check the battery with a voltage meter to ensure at least 12 volts are going to the system.
3. Have someone else mark off a distance of 12 ft. straight out from behind the vehicle and have them stand in that spot.
4. Keep the vehicle stationary while the person begins to walk toward it from behind.
 - When the person reaches a distance of 9 ft. from the sensor, the Driver Display should turn to a flashing yellow/green light.
 - When the person reaches a distance of 5 ft. from the sensor, the Driver Display should turn to a flashing red/green light and sound a fast, pulsating alert.
 - When the person is within 3 ft. of the sensor, the Driver Display will show a solid red light and the audible alert will become continuous, warning the driver that an object is dangerously close to the vehicle.
5. Now have the person place an object, such as metal folding chair, 15 ft. behind the vehicle.

6. Release the parking brake and back toward the object at normal backing speed (3.5–5 mph). The Driver Display should react in the same manner described in Step 4, as the sensor comes within 9 ft., 5 ft., and 3 ft. of the object.

7. Place the vehicle in park and set the parking brake. If Guardian Alert responded as described in these instructions, the test was successful and the system is working properly.

NOTE: After making any adjustments during testing, return to Step 1 and repeat the entire test to ensure that the system is working properly.

Specifications

- Input Voltage: 12VDC Energized By Reverse Light
- Power Consumption: 0.6 Watts @12 Volts
- Transmitting Frequency: 10.525 Ghz
FCC and Industry Canada Approved
- Detection Pattern: 9ft, 5ft, 3ft; 8ft Wide
- Component Life:
99 Years Under Typical Operation Conditions
- Maintenance Free
- Single Doppler Radar Sensor
- Dual Driver Alarm, Audio and Visual
- Detection Pattern Sees To Ground Across
Entire Vehicle Width
- Detects Only When Objects Pose a Threat
For Collision
- Approvals and Certifications:
 - SAE J 1128 Low Tension Primary Cable
 - SAE J 1292 Automobile, Truck, Truck-Tractor,
Trailer and Motor Coach Wiring
 - SAE J 1211 Test Procedures
 - SAE J 994 Alarm - Backup - Electric Laboratory
Performance Testing

Warranty and Service

ESCORT One-Year Limited Warranty

What this warranty covers: ESCORT warrants your product against all defects in materials and workmanship.

For how long: One (1) year from the date of the original purchase.

What we will do: ESCORT, at our discretion, will either repair or replace your product free of charge.

What we will not do: ESCORT will not pay shipping charges that you incur for sending your product to us.

What you must do to maintain this warranty: Show original proof of purchase from an authorized ESCORT dealer.

Warranty exclusions: Warranty does not apply to your product under any of the following conditions: 1. The serial number has been removed or modified. 2. Your product has been subjected to misuse or damage (including water damage, physical abuse, and/or improper installation). 3. Your product has been modified in any way. 4. Your receipt or proof of purchase is from a non-authorized dealer or Internet auction site, including E-bay, U-bid, or other non-authorized resellers. 5. You are not the original purchaser of the product from an authorized dealer or did not receive it as a gift from the original purchaser of the product from an authorized dealer.

To obtain service: Contact ESCORT (800-543-1608) to obtain a Return Authorization Number. Properly pack your product and include: your name, complete return address, written description of the problem with your product, daytime telephone number, and a copy of the original purchase receipt. Label the outside of the package clearly with your Return Authorization Number. Ship the product prepaid (insured, for your protection) to: ESCORT Inc., 5440 West Chester Road, West Chester, OH 45069.

Out-of-warranty repairs:

For out-of-warranty repairs, include prepayment in the amount you were quoted by the ESCORT Customer Service Representative. If your Guardian Alert has been damaged, abused, or modified, the repair cost will be calculated on a parts-and-labor basis. If it exceeds the basic repair charge, you will be contacted with an estimate. If the additional payment is not received within 30 days (or if you notify us that you do not wish to have your Guardian Alert repaired at the price quoted), the unit will be returned without repair. Payment can be made by check, money order, or credit card.

LIMITATION OF WARRANTY: EXCEPT AS EXPRESSLY PROVIDED HEREIN, YOU ARE ACQUIRING THE PRODUCT "AS IS" AND "WHERE IS," WITHOUT REPRESENTATION OR WARRANTY. ESCORT SPECIFICALLY DISCLAIMS ANY REPRESENTATION OR WARRANTY, INCLUDING, BUT NOT LIMITED TO, THOSE CONCERNING THE MERCHANTABILITY AND SUITABILITY OF THE PRODUCT FOR A PARTICULAR PURPOSE. ESCORT SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, DAMAGES ARISING OUT OF THE USE, MISUSE, OR MOUNTING OF THE PRODUCT. The above limitations or exclusions shall be limited to the extent they violate the laws of any particular state. ESCORT is not responsible for products lost in shipment between the owner and our service center.

Other legal rights: This Warranty gives you specific rights. You may have other legal rights, which vary from state to state.