Instruction Manual

Backup Camera System with Bluetooth for Ford Trucks

Note: Camera may be different based on item configuration
NOTE!

Please read all of the installation instructions carefully before installing the product. Improper installation will void manufacturer’s warranty.

Congratulations on purchasing a Rear View Backup Camera System!

With this manual you will be able to properly install and operate the unit.

The Backup Camera System is intended to be installed as a supplement aid to your standard rear view mirror that already exists in your vehicle. The Backup Camera System should not be used as a substitute for the standard rear view mirror or for any other mirror that exists in your vehicle.

In some jurisdictions, it is unlawful for a person to drive a motor vehicle equipped with a TV viewer or screen located forward of the back of the driver’s seat or in any location that is visible, directly or indirectly, to the driver while operating the vehicle.

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Introduction

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Before Beginning Installation

Before beginning installation, please read all of the installation instructions carefully. Improper installation will void the manufacturer’s warranty.

Installation Guide

The Backup Camera System is intended to be installed as a supplement aid to your standard rear view mirror that already exists in your vehicle. It should not be used as a substitute for the standard rear view mirror or for any other mirror that exists in your vehicle.

Installation and Wire

Before installation, make sure your vehicle’s power supply is compatible with your Backup Camera System. This will ensure that the system will function properly.

Monitor Specifications

The Backup Camera System includes a high-definition monitor that displays the rear view of your vehicle. The monitor has a built-in speaker and is easy to install and operate.

How To Wire + Splicing

The Backup Camera System comes with all the necessary wiring and splicing supplies. Follow the instructions provided in this manual to ensure a proper installation.

Camera Specification

The Backup Camera System includes a high-quality camera that provides a clear and wide-angle view of the rear of your vehicle. The camera is easy to install and operate.

Camera Highlights

The Backup Camera System includes a high-quality camera that provides a clear and wide-angle view of the rear of your vehicle. The camera is easy to install and operate.

Bluetooth Connection

The Backup Camera System includes a built-in Bluetooth connection that allows you to control the monitor using your smartphone or other Bluetooth-enabled device.

Monitor Brightness

The Backup Camera System includes a built-in brightness adjustment feature that allows you to adjust the monitor’s brightness to your liking.

Troubleshooting

If you encounter any issues while installing or operating your Backup Camera System, please refer to this troubleshooting section for assistance.

Warranty & Disclaimer

The Backup Camera System comes with a manufacturer’s warranty. Please refer to the warranty documentation included with your product for more information.

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**NOTE:**

Please read all of the installation instructions carefully before installing the product. Improper installation will void the manufacturer’s warranty.
Please read the entire manual and follow the instructions and warnings carefully. Failure to do so can cause serious damage and/or injury, including loss of life. Be sure to obey all applicable local traffic and motor vehicle regulations as it pertains to this product. Improper installation will void manufacturer’s warranty.

**SAFETY INFORMATION**

**USAGE:**

- The Rear View Camera System is designed to help the driver safely detect people and/or objects helping to avoid damage or injury. However, you the driver, must use it properly. Use of this system is not a substitute for safe, proper or legal driving.

- Never back up while looking at the monitor alone. You should always check behind and around the vehicle when backing up, in the same way as you would if the vehicle did not have the Rear View Camera System. If you back up while looking only at the monitor, you may cause damage or injury. Always back up slowly.

- The Rear View Camera System is not intended for use during extensive back-up maneuvers or backing into cross traffic or pedestrian walkways.

- Please, always remember, the area displayed by the Rear View Camera System is limited. It does not display the entire panorama that is behind you.

**INSTALLATION:**

- Electric shock or product malfunction may occur if this product is installed incorrectly.

- Use this product within the voltage range specified. Failure to do so can cause electronic shock or product malfunction.

- Take special care when cleaning the monitor.

- Make sure to firmly affix the product before use.

- If smoke or a burning smell is detected, disconnect the system immediately.

- Where the power cable may touch a metal case, cover the cable with friction tape. A short circuit or disconnected wire may cause a fire.

- While installing the Rear View System be careful with the wire positioning in order to avoid wire damage.

- The Rear View System should only be used when the vehicle is in reverse.

- Do not watch movies or operate the monitor while driving; as it may cause an accident.

- Do not install the monitor where it may obstruct drivers view or obstruct an air bag device.

- Dropping the unit may cause possible mechanical failure.
If you have questions about this product, contact:

Rear View Safety
1797 Atlantic Avenue
Brooklyn, NY 11233
Tel: 1.800.764.1028

IN NO EVENT SHALL SELLER OR MANUFACTURER BE LIABLE FOR ANY DIRECT OR CONSEQUENTIAL DAMAGES OF ANY NATURE, OR LOSSES OR EXPENSES RESULTING FROM ANY DEFECTIVE PRODUCT OR THE USE OF ANY PRODUCT.

Before drilling please check that no cable or wiring is on the other side of the wall. Please clamp all wires securely to reduce the possibility of them being damaged while vehicle is in use. Keep all cables away from hot or moving parts and electrical noisy components.

We recommend doing a benchmark test before installation to insure that all components are working properly.

Step 1: Choose the monitor and camera locations.

Step 2: Install all cables in vehicle, when necessary a 0.8 (20mm) hole should be drilled for passing camera cable through vehicles walls. Install split grommets where applicable.

Step 3: Once all cables and wiring have been properly routed, perform a system function test by temporarily connecting the system. If the system seems to not be operating properly see troubleshooting (page 21).
Replacement Monitor
The mirror monitor replaces the existing car mirror. Carefully remove the mirror off the “pin”. Slide the replacement mirror on to the pin and secure it with the screw provided (already in the screw hole). Different cars have different brackets. Depending on your vehicle make and manufacturer, there are many methods to remove the original rear-view mirror, however, please don’t force the mirror off the bracket. The manufacturer will not be responsible for damage caused to your car by wrong installation of the mirror. Figure 1.1

Camera & Cable
Be sure to position the cable properly. The aviation camera cable uses aircraft grade connectors which means the camera cable can be exposed to all weather elements. Do not run the cable over sharp edges, do not kink the cable and keep away from HOT and rotating parts. Fasten all cables and secure all excess cable. Connect camera to the camera extension cable which runs inside the vehicle. Figure 1.2

Wiring
After connecting the camera to the “camera cable” the camera should be plugged into AV2 input. Connect the RED 12V power wire to an ignition power source and the BLACK 12V ground wire to a chassis ground. The GREEN wire is the REVERSE trigger wire. Connect this wire to the vehicle’s backup light circuit to activate the rear-view image whenever the vehicle shifts into reverse. To connect a second camera, connect it to AV1 input. It can be turned on by pressing the power button on the monitor. Figure 2.1

Precautions for use of Mirror Monitor

I. The Mirror Monitor is made of glass. Do not subject it to a mechanical shock by dropping it from a high place, etc.
II. Do not apply excessive force to the monitor surface or the adjoining areas since this may cause the color tone to vary.
III. Clean with a soft dry cloth and/or Windex only.
IV. Do not attempt to disassemble the mirror monitor.

Safety
• Before drilling, be sure no cable or wire is on the other side.
• Feed as much cable as possible into vehicle & clamp securely. This reduces the possibility of cable being hooked or snagged.
FIGURE 1.1

FIGURE 1.2

installatin and wire
**About Our Monitor**

**SPECIFICATIONS:**

- **Screen Size:** 4.3”
- **Display Screen:** TFT-LCD
- **Display Resolution:** 400(H)x272(V)
- **Aspect Ratio:** 16:9
- **Color Depth:** 16.7M dithering
- **Pixel Pitch (mm):** 0.219x0.219
- **Power Consumption:** 8W
- **Working Voltage:** DC 9V-32V
- **Video Input:** NTFS/PAL Video input
- **Signal System:** PAL/Auto/NTSC

**FIGURE 2.1**

1. RED- Power (+)
2. YELLOW- Video
3. GREEN- Mirror / Normal Imaging
4. WHITE- Audio
5. BLACK- Ground (-)
**CAMERA HIGHLIGHTS**

- Replaces tailgate handle
- 170° all-encompassing viewing angle
- OEM design - factory like install
  - Excellent night vision
- IP67 rating - completely protected against all weather elements

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**CAMERA SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Consumption MAX</td>
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<tr>
<td>Sensor</td>
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<td>Full Color Video Out: 1.0Vp-p 17 (ohm) Load</td>
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<td>Working Voltage</td>
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<td>DC9-16V</td>
<td>Full Color</td>
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<tr>
<td>Waterproof</td>
<td>IP67</td>
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<td>Can be turned on/off</td>
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<tr>
<td>Image</td>
<td>Mirror</td>
</tr>
<tr>
<td>Overall Dimensions</td>
<td>4” (H) x 7.95” (L) x 0.25” (D)</td>
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</table>
Start Up
The first time you use the rear view mirror, Bluetooth will automatically turn on when the car is started. Wait for 1 minute to connect your phone with the mirror. During this first minute, the mirror will search for the last paired phone.

Connecting To A New Phone
Once a minute has passed after the system turns on, connect your mobile phone or other device to the rear view mirror.

Manual Bluetooth Connection
If your phone is not connected to the rear view mirror and the screen is off, long press the center button to manually reconnect Bluetooth.

Successfully Connected
After the password has been set, a Bluetooth icon will appear on the monitor. This indicates a successful connection. After 5 seconds, the monitor will automatically shut off and the Bluetooth system will enter a standby mode.
Backup Camera Display And Manual Brightness Adjustment

After installation, place the vehicle in reverse and the backup camera image will automatically display on the monitor. Once this image is displayed, you can manually adjust the monitors’ brightness by pressing the center button. The brightness can be adjusted from 10 to 100. The OSD menu will disappear after 5 seconds of inactivity.

Auto Brightness Adjustment

Your system will automatically adjust monitor brightness based on ambient light. The monitor will be comfortably visible in both bright sunshine and the darkness of night.

No Image On Screen

- Do a hard reset, unplug all cables and power cables, leave out for 1 minute, and re-connect them
- Check to ensure that the connection to the camera is tight
- Verify camera cable is plugged into port labeled Backup Camera
- Verify that the green positive trigger on power harness is set to power 12v+
- Verify camera is on correct camera input
- Verify cable is connected to monitor
- Verify camera is connected to cable
- Connect known working camera and cable to monitor
- Verify green trigger is receiving power
ONE YEAR WARRANTY

REAR VIEW SAFETY, INC. WARRANTS THIS PRODUCT AGAINST MATERIAL DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF PURCHASE. WE RESERVE THE RIGHT TO REPAIR OR REPLACE ANY SUCH DEFECTIVE UNIT AT OUR SOLE DISCRETION. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR A DEFECT IN THE SYSTEM AS A RESULT OF MISUSE, IMPROPER INSTALLATION, DAMAGE OR MISHANDLING OF THE ELECTRONIC COMPONENTS. REAR VIEW SAFETY, INC. IS NOT RESPONSIBLE FOR CONSEQUENTIAL DAMAGES OF ANY KIND. THIS WARRANTY IS VOID IF: DEFECTS IN MATERIALS OR WORKMANSHIP OR DAMAGES RESULT FROM REPAIRS OR ALTERATIONS WHICH HAVE BEEN MADE OR ATTEMPTED BY OTHERS OR THE UNAUTHORIZED USE OF NONCONFORMING PARTS; THE DAMAGE IS DUE TO NORMAL WEAR AND TEAR, THIS DAMAGE IS DUE TO ABUSE, IMPROPER MAINTENANCE, NEGLECT OR ACCIDENT; OR THE DAMAGE IS DUE TO USE OF THE REAR VIEW SAFETY, INC. SYSTEM AFTER PARTIAL FAILURE OR USE WITH IMPROPER ACCESSORIES.

WARRANTY PERFORMANCE

DURING THE ABOVE WARRANTY PERIOD, SHOULD YOUR REAR VIEW SAFETY PRODUCT EXHIBIT A DEFECT IN MATERIAL OR WORKMANSHIP, SUCH DEFECT WILL BE REPAIRED WHEN THE COMPLETE REAR VIEW SAFETY, INC. PRODUCT IS RETURNED, POSTAGE PREPAID AND INSURED, TO REAR VIEW SAFETY, INC. OTHER THAN THE POSTAGE AND INSURANCE REQUIREMENT, NO CHARGE WILL BE MADE FOR REPAIRS COVERED BY THIS WARRANTY.

WARRANTY DISCLAIMERS

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DISCLAIMER

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If you have any questions about this product, contact:

Rear View Safety, Inc.
1797 Atlantic Avenue
Brooklyn, NY 11233
800.764.1028

IT’S OUR GUARANTEE.