

REARSIGHT CAMERA SYSTEM

250-8199 Installation Instructions

Parts Identification	Page 1
Vehicle Preparation	Page 1
System Layout	Page 2
Installation	Page 2
Troubleshooting	Page 3

Parts Identification

Contents	Quantity
Camera W \ LPB Bracket	1
Power Cable & S-Video to RCA Adaptor	1
Mounting Screws \ Hdwr Pack	1
Hinge Bracket	1
Tab Bracket	1
5m Audio / Video RCA Cable	1
Manual	1

Vehicle Preparation

Before beginning your installation, familiarize yourself with the installation instructions and the RearSight camera system components.

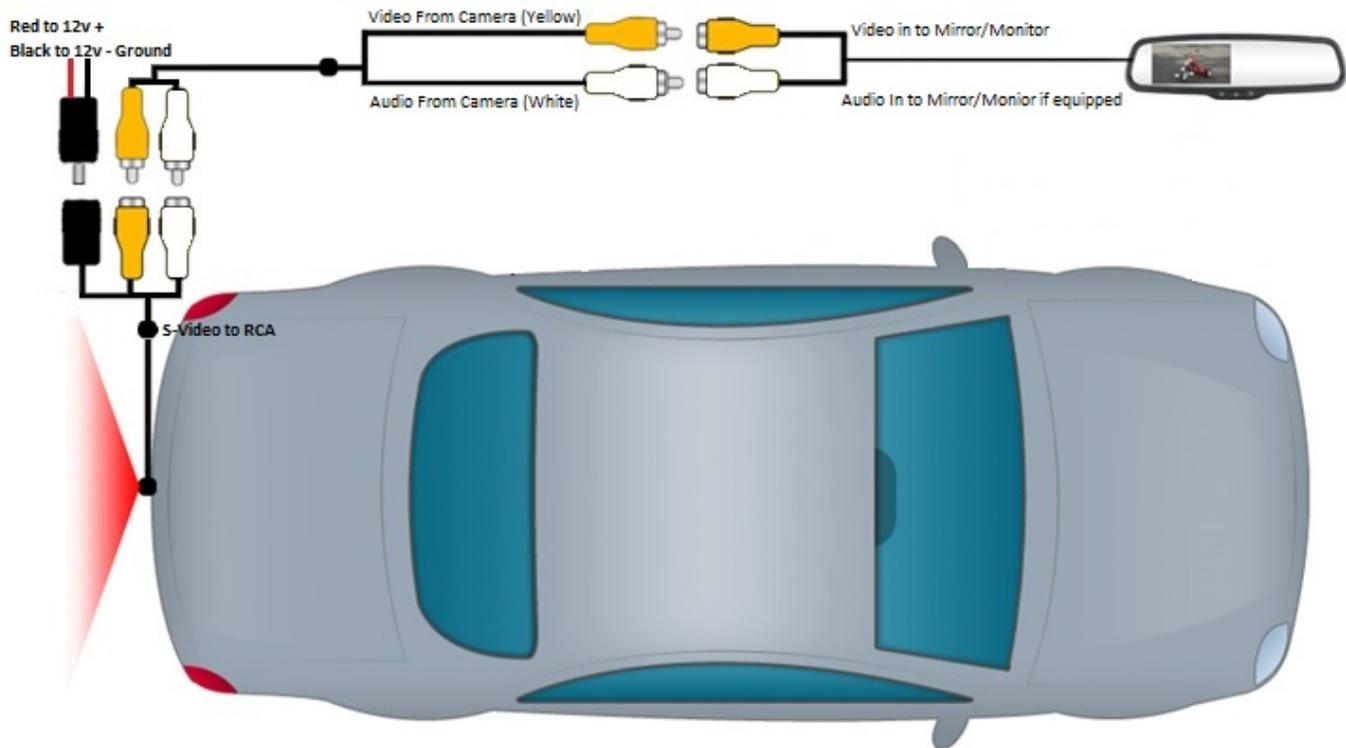
To ensure your safety, **(A)** apply the emergency brake and **(B)** read this entire manual before beginning.



CAUTION: It is advisable to disconnect the negative battery cable for 3 minutes before beginning installation, to avoid unintended air bag deployment. Note and record any anti-theft radio codes prior to disconnecting.

Date: 6/23/2016

System Layout



Installation

1. Remove the rear license plate.
2. Examine the vehicle to determine the best way to run the power wires to the reverse lights and the extension cable through the car.
3. The Camera can be mounted above or below the plate. (For surface mounting with the included bracket, see the next section.) Determine the mounting location that best suits your needs. Be sure to verify that your installation plan complies with local laws and requirements. Most states require that the state name, registration stickers, and license number are not obstructed in any way.
4. Place the camera bracket behind the license plate and line up the holes. Fasten the camera mounting bracket and the license plate to the vehicle using the anti-theft screws provided. After installation of screws with the tool provided, place the tool in the glove compartment or other safe place for future use.

NOTE: If you decide to mount the camera at the bottom of the license plate, you must first remove the screw that holds the camera to the bracket and flip the camera over so the picture will not be displayed upside down.

5. Route the camera wiring into the vehicle. The wire can be run through an existing grommet, behind a tail lamp, under the trunk molding, or if necessary, through a 5/8-inch hole drilled near the vehicle's rear license plate. **When choosing a wiring path, make sure the cable will not be damaged or pinched, as this may cause a short circuit that is not covered by the warranty.** If drilling a hole, perform the following steps:
 - a) Acquire a 5/8-inch drill bit, rust preventive, all of which can be purchased at a hardware store.
 - b) Check behind the intended drilling location before drilling to verify that no wires or mechanisms can interfere with or be damaged during drilling.
 - c) Check for interference with license plate lights and the hatch release switch and/or mechanism.
 - d) Drill a 5/8-inch hole at the selected location.
 - e) Coat the edge of the hole with rust preventative.
 - f) Route the camera cable through the grommet and then through the hole.
 - g) Insert the grommet in the hole to keep water from entering the vehicle.

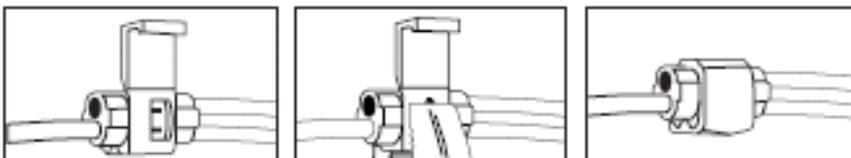
Surface Mounting Instructions

1. Find a suitable location on the vehicle where the bracket will not interfere with any equipment or doors, or block the line of sight. Verify that the planned mounting location is accessible from behind and that you have access to route the wiring inside the vehicle. Be sure that the mounting screws will not hit any wires or equipment inside the vehicle.
2. Attach the surface mounting bracket to the vehicle with the hardware included.
3. Route the camera wiring into the vehicle. The wire can be run through an existing grommet, behind a tail lamp, under the trunk molding, or if necessary, through a 5/8-inch hole drilled near the vehicle's rear license plate.
When choosing a wiring path, make sure the cable will not be damaged or pinched, as this may cause a short circuit that is not covered by the warranty. If drilling a hole, perform the following steps:
 - a. Acquire a 5/8-inch drill bit, rust preventive, and a 5/8-inch rubber grommet, all of which can be purchased at a hardware store.
 - b. Check behind the intended drilling location before drilling to verify that no wires or mechanisms can interfere with or be damaged during drilling.
 - c. Check for interference with license plate lights and the hatch release switch and/or mechanism.
 - d. Drill a 5/8-inch hole at the selected location.
 - e. Coat the edge of the hole with rust preventative.
 - f. Route the camera cable through the grommet and then through the hole.
 - g. Insert the grommet in the hole to keep water from entering the vehicle.
4. Remove the camera from the license plate bracket and attach it to the surface mount bracket on the vehicle.

Obtaining Reverse Power

NOTE: If your vehicle has LED type backup lights you may be required to use a relay to power the camera as the vehicle circuit may not support the camera power. Connection to a low current circuit can cause a bad picture, no picture, or even a vehicle service lamp coming on. If you connect the camera to a ACC source directly you will need to Cycle the ACC on and off in the programming instructions in order to enter the configuration mode

1. Locate the reverse lamp in the tail light assembly.
2. Using the tap connector supplied, perform the following steps:
 - a. Place the un-stripped positive lead from the tail lamp in the run channel, which runs completely through the connector.
 - b. Insert the un-stripped red power wire from the camera completely into the other channel in the connector.
 - c. Make the connection between the wires by crimping down the metal connector with a pair of pliers, making sure the metal is flush with the plastic insulator.
 - d. Close the top plastic hinged cover until latched.
3. Attach the black wire to the ground (negative).
4. Repeat the above steps for the red wire.



Connecting the Video Signal

NOTE: If used with a Rostra HD or Commercial monitor the camera power and signal will be provided through a single cable to the monitor (supplied with the monitor).

Reverse/Normal Image Adjustment

The camera comes standard with a reversed image, designed for mounting at the rear of the vehicle. If you need to change to a forward or normal image view, clip the blue jumper wire loop on the wiring cable (labeled "Mirror Selection" below) to change the camera image to normal. Secure the clipped wires with electrical tape. To change back to reverse image view, reconnect the blue wires and secure with electrical tape.

Camera Parking Line Setup

The 250-8199 Camera has 9 selections of Parking Line Styles and the ability to shut off the Parking Grid Lines. Once the camera is installed completely and working you can select the parking line style.

Engage the parking brake and vehicle brake, cycle the vehicle in and out of reverse 5 times. On the 5th time keep in reverse and the display will show the first set of parking lines. The camera will cycle through 9 sets including a "no lines" option, when you see the lines you want to use take the vehicle out of reverse gear. Your selection will be saved. To change again repeat the above instructions. Remember: If you powered the camera from a ACC source (constant power with ignition on) you must cycle the power ON/OFF 5 times to enter this mode.

Troubleshooting

No Image to Mirror/Monitor	No Video	No Reverse Override
Verify 12-volts to Camera red wire. Verify Power to Monitor.	Verify extension harness connection to camera.	Check connectivity of green reverse wire at Mirror/Monitor.
Verify ground < 10 Ohms resistance.	Verify harnesses are mated correctly at camera.	Verify extension harness connection to camera.
Verify secure connection to camera extension harness.	Verify 12-volts and ground connection at camera.	