Your GPS device comes with a wireless reversing Camera. When the rear gear is engaged, the image from the camera will be displayed on the screen of your GPS device, aiding you in parking in difficult spots (works if camera is linked to the reversing light).

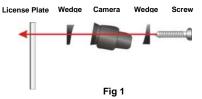
Included with the reversing camera are the following fitting parts; License Plate Bolts, Wedge shaped mounting shims. These parts should be sufficient to mount the camera to most vehicles. However, some vehicles may require additional parts for fitment.

**WARNING:** This device, as well as all other wireless devices, may be subject to interference. Interference may be caused by cell phones, Bluetooth headsets, Wi-FI routers, power lines and other various electrical equipment, etc. Also note that holding the GPS unit in your hands may also result in interference.

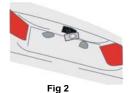
## **Camera Installation**

You may mount the camera using the license plate's top or bottom mounting bolts or screws. When mounting the camera you must make sure that it's field of view is not obstructed. Depending on the vehicle, you may mount the camera on the top or bottom of the license plate. You can use the wedge shaped shims to alter the angle of the camera during fitting, so that the best view is achieved.

- 1. Loosen the license plate bolts/screws, then remove the rear license plate.
- 2. Insert each license plate bolt into a supplied wedge, then through the bolt holes of the camera, then through the remaining wedges and the license plate. (Fig.1)



- Align with holes on vehicle and temporarily tighten the license plate bolts. The wedges will angle the camera down.
- 4. You will need to choose a route for the camera's power cable through the vehicle's body to the reverse light circuit.
- 5. Some vehicle's may have a hole available to pass the wire through, you can use an existing opening (Fig.2) like where a license plate light is mounted, or drill a hole close to where the power cable is attached to the camera. (Fig.3) Once you have chosen where the cable will enter the vehicle's body, remove the camera. If you able to use an existing opening, skip the next two steps.





- 6. If you are going to drill a hole, choose a location as close to the camera where the power cable comes out of it. Before You Drill A Hole You Must Check And See What Is Behind Where You Are Drilling. If there are any vehicles components, such as electrical parts or fuel system components behind where you are drilling, you must take whatever precaution is necessary not to damage them. Remove the license plate and camera before drilling.
- After you have drilled a hole, pass the power cable through the wedge into the vehicle.





8. Next you'll need to find the vehicle's reverse lights. Turn the vehicle's ignition key to the accessory position, engage the parking brake and put the car in reverse. Look at the vehicle's tail lights to see where the reverse lights are located.

To locate the reverse light's 12V+ wire it will be necessary to gain access to the rear of the vehicle's tail light.

For help locating the vehicle's reverse light circuit contact your vehicle's manufacturer for vehicle specific wiring diagrams.

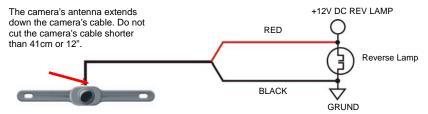
- Once you have located the reverse light circuit you will have to route the camera's power cable to that location. You must securely fasten the power cable to prevent it from being caught on any vehicle component such as the trunk hinge (Fig.6). Never route the cable on the outside of the vehicle.
- 10. The sockets for most vehicle's reverse lights have two wires connected to them. One is positive and one is negative, to determine which is positive you will need at least a 12V test light available at any auto parts store, or a multi-meter. Using the test light, attach the negative lead to a spot on the vehicle that has a chassis ground, with the reverse light on touch the other lead to one of the wires on the reverse light socket. When you touch one of the wires and the test light comes on that wire is the positive wire, if the test light doesn't come on, that

wire is the negative wire.

- 11. After determining which wire is the positive and which is the negative, turn off the ignition key, then remove the battery's negative cable.
- 12. Wire the camera directly to the reverse light circuit by stripping the reverse light wires then twisting the camera wires to the exposed reverse light wires (ideally these should then be soldered to form a secure connection). Once connected, wrap with electrical tape. Do not attempt this if you are not knowledgeable with electrical installation practices.
- Next splice the black wire of the camera's power cable to the reverse light's negative (-) wire or ground.
- 14. Replace the reverse light bulb, then re-install the light socket. Secure all the wires with cable ties or electrical tape. Re-attach the negative battery cable to the battery.

## **CAMERA Wiring Diagram**

The camera is equipped with Reverse Voltage Protection. If the camera does not operate, please check that the Red wire is connected to positive (+) and the Black wire is connected to negative (-).



## **Testing the System**

- 1. Reattach the vehicle's negative battery cable.
- Engage the parking brake and turn the ignition key to the ON position. DO NOT start the vehicle. Put the gear shift into reverse.
- 3. The camera will start broadcasting, and the GPS unit screen will detect the signal and enter the Back-up camera mode automatically. The image will be displayed on the screen and it should match roughly what you see in your rear view mirror. It might be lower and at a different angle.
- When you take the gear shift out of reverse the camera will turn OFF, and the GPS unit screen will turn back.

After testing the unit and you are satisfied with the route you have chosen for the cabling, you must permanently install it.

Fully tighten the license plate bolts.

Route all wires behind interior panels or under carpeting so they are hidden.

Use cable ties to neatly gather all excess wire.

**Note:** Keep camera lens and the GPS unit screen clean to ensure optimum picture quality.

## Camera Operation

Once fully fitted into the vehicle the operation of the reversing camera is simple. Whenever you put the vehicle into reverse, the camera picture will automatically appear on the GPS unit display.

The optimal viewing angle of this camera is 120 degree horizontally and 140 degree diagonally. The optimal viewing distance is about 2M.

**NOTE:** the Camera receiver needs to be fitted to the GPS unit for the camera to work. (See GPS instruction manual)

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. 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 undesired operation.

FCC Radiation Exposure Statement The antennas used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be collocated or operating in conjunction with any other antenna or transmitter.