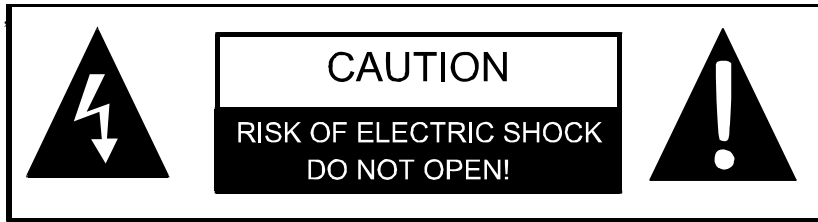


## Important Safety Instructions



**CAUTION:** TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USE-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OF MOISTURE.

### POWER SUPPLY:

Connect the supplied adapter to the side of the unit in the slot marked "DC 5V IN". Plug the two-prong end of the power cord into an AC outlet or the cigarette lighter socket of the vehicle. If you have difficulty inserting the plug, turn it over and reinsert it. If the unit will not be used for a long time, disconnect the plug from the socket.

### NOTE:

Before plugging the power cord into an AC outlet or a cigarette lighter socket of vehicle, make sure that all the connections have been made.

**CAUTION:** These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer to service manual for servicing instructions. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

# Important Safety Instructions

## NOTES

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a damp cloth.
- 7) Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.



## Important Safety Instructions

### **Warning**

Failure to avoid the following potentially hazardous situations may result in injury or property damage.

The unit is designed to provide you with route suggestions. It does not reflect road closures or road conditions, traffic congestion, weather conditions, or other factors that may affect safety or timing while driving.

Use the unit only as a navigational aid. Do not attempt to use the unit for any purpose requiring precise measurement of direction, distance, location, or topography. This product should not be used to determine ground proximity for aircraft navigation.

### **CAUTION:**

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

The batteries (or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

Underwriters Laboratories Inc. ("UL") has not tested the performance or reliability of the Global Positioning System ("GPS") hardware, operating software or other aspects of this product. UL has only tested for fire, shock or casualty hazards as outlined in UL's Standard(s) for Safety [Note-Consider referencing specific UL standard].

UL Certification does not cover the performance or reliability of the GPS hardware and GPS operating software.

UL MAKES NO REPRESENTATIONS, WARRANTIES OR CERTIFICATIONS WHATSOEVER REGARDING THE PERFORMANCE OR RELIABILITY OF ANY GPS RELATED FUNCTIONS OF THIS PRODUCT.











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.

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

## Accessories

### Accessories List

ITEM	NAME	QTY
	Owner's Manual	2
	Back-up Camera	1
	AC Adaptor	1
	Car Adaptor	1
	Mounting Bracket	1
	USB Cable	1
	Mounting cradle	1
	Touch Pen	1
	Dashboard mount disk	1
	Pouch	1

### **NOTE**

Accessories and their parts numbers are subject to modification without prior notice due

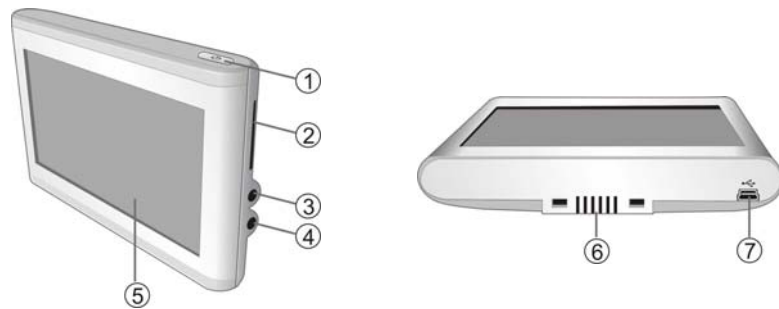
to improvements.

## Contents

<b>Important Safety Instructions</b>	.....1
<b>Accessories</b>	.....4
<b>View of Main Unit</b>	.....6
<b>System Connections</b>	.....8
<b>Power Supply Preparation</b>	.....10
<b>General Setup</b>	.....12
<b>Playing Music</b>	.....16
<b>Photo Viewer</b>	.....18
<b>GPS Unit Installation</b>	.....20
<b>Back-up Camera Installation</b>	.....21
<b>Troubleshooting</b>	.....26
<b>Specifications</b>	.....28

## View of Main Unit

### Front and Side panel



1. **POWER button**  
Press the power button for longer time to enter or exit the standby mode.
2. **Card Port**  
Insert the SD card into the port.
3. **Headphone Jack**  
Used to connect headphones for private listening. When the headphones are connected to this jack, the speaker will be turned off automatically.
4. **DC 5V Input Jack**  
Used to connect to the supplied adapter.
5. **LCD Screen**
6. **Grooves**  
Used to connect the receiver located in the mount cradle for back-up camera signal input.
7. **USB Port**  
Used to connect to the USB device.

### Rear View



1. **External GPS Antenna Jack**  
Connected to the external antenna (optional).
2. **ON/OFF Switch**  
Used to switch power on or off.
3. **Speaker**

## System Connections

- Always ensure that the unit and any other external device connected to the unit are switched off and unplugged from the power supply before you attempt to connect the unit to any external device.

### **Connecting to PC**

The unit is designed with a USB port which allows you to connect the unit to PC for map updating. See the below figure for details:



System requirements:

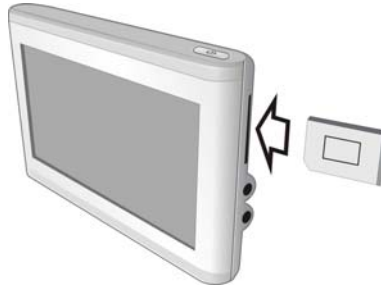
- Windows 98SE, ME, 2000 and XP  
(Driver required for Windows 98SE)
- DVD Rom Drive (for map upgrade purposes)
- Intel Pentium II 233 Mhz
- 64 MB RAM
- 50 MB available hard drive space
- Available serial port and/or USB Port
- 256-color display adapter and monitor  
(16 bit color required)

In the near future map updates will be available for down load from our website. Please check [www.nextar.com](http://www.nextar.com) periodically for the information on downloads.



### **Inserting SD Card**

The unit is designed with SD Card jack which allows you to insert the SD card into the unit as shown below:



To remove the card, gently press the card in with your fingernail. The card unlocks and protrudes slightly. Then remove the card

### **Connecting to Earphones**

Connect the earphones to the right side of the unit for private listening.



When earphone is connected, the speakers will automatically turn off.

**Note:** Excessively loud volume could damage your hearing. So turn down the volume before you connect the earphones, and then raise the volume to comfortable level.

## Power Supply Preparation

### Using the AC Adaptor

The unit is supplied with an AC adaptor for powering it and charging its battery.

1. Connect AC adaptor to the right side of the unit in the jack marked DC 5V IN, as shown on the right.
2. Plug the two-prong end of the power cord into a grounded electrical outlet.



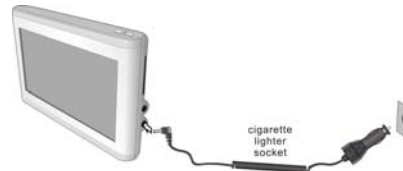
### Note:

- Turn unit's power off before unplugging.
- In the case of using the adaptor, the LCD screen will be brighter than with the rechargeable battery.

### Using of Car Adaptor

The unit is supplied with a Car Adaptor for powering it while in a vehicle.

Connect the Car Adaptor Power Plug to the unit's power jack and plug the other end to the vehicle's 5V accessory/ cigarette socket, as shown on the right figure.



### Attention

- Place the unit in a proper position for viewing.
- Disconnect the unit from the Car Adaptor when starting the vehicle.

Your portable GPS unit comes with a built-in rechargeable battery. Please see details in the following segment.

### **Working conditions and precautions for the rechargeable battery**


- Battery should only be used and charged when temperatures are between 32°-100°F.
- Maintain well-ventilated conditions around the product to avoid overheating. Don't put the product on a bed, sofa or anything that may block ventilation to the product.
- When the battery is weak, an indication menu will appear on the LCD screen and about five minutes later, the player will power OFF automatically.

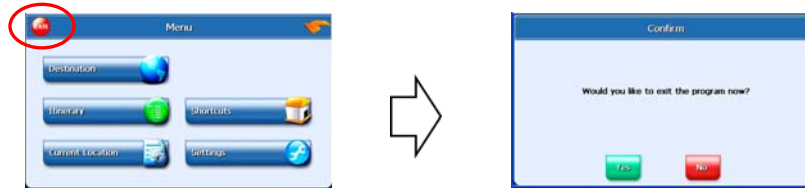
### **Charging the Battery Pack**

The battery must be charged by using the supplied adaptors.

## General Setup

### System Main Menu





When in navigation mode, tap  button in the Menu screen. A confirmation message appears asking if you want to exit the program now, as shown below.



In the confirmation screen, tap Yes and the system main menu appears.

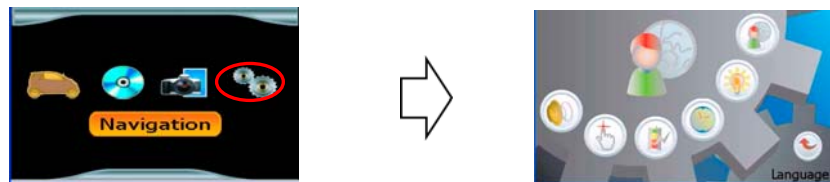


In the main menu, there are four items for selecting. Touch the corresponding item to enter.

Tap  to enter navigation mode; tap  to enter the MP3 player; tap  to enter the Photo Viewer; tap  to enter the settings menu.

### Settings Menu

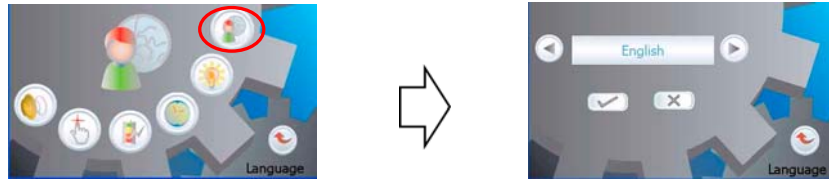
Tap  to enter the settings menu, the screen will display as below:







In the menu, tap  to return to the main menu.

### Language

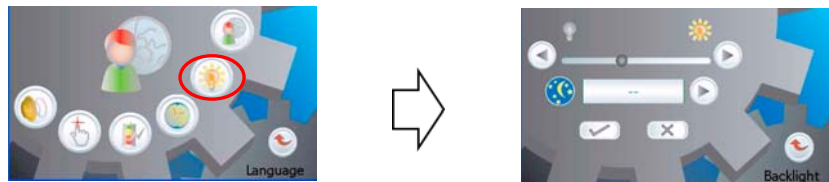
Tap  in the settings menu to enter **Language** settings menu for language selecting, as shown below:



Tap the   buttons to select language. Then tap  to confirm or tap  to cancel.

### Backlight

Tap  in the settings menu to enter **Backlight** settings menu for backlight adjusting, as shown below:



Tap the first group   buttons to adjust the backlight level.

Tap the second group  buttons to adjust the sleep time. There are 6 choices for sleep time (--/5/10/30/60/120).

--: The system will keep backlight always on and will not enter sleep mode.

5: The system will keep backlight on for 5 minutes and then enter sleep mode.

10: The system will keep backlight on for 10 minutes and then enter sleep mode.

30: The system will keep backlight on for 30 minutes and then enter sleep mode.

60: The system will keep backlight on for 1 hour and then enter sleep mode.

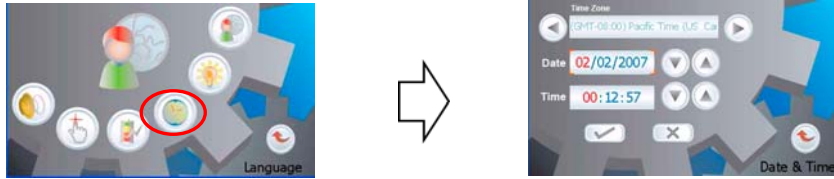
120: The system will keep backlight on for 2 hours and then enter sleep mode.








After setting, tap  to confirm or tap  to cancel.

## General Setup

### Date & Time

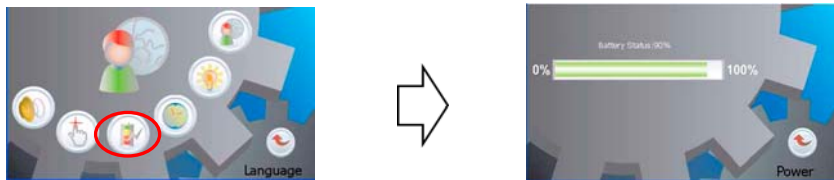
Tap  in the settings menu to enter **Date & Time** settings menu for changing to the current time zone, as shown below:



Tap the   buttons to select the proper Time Zone. Tap the   buttons of Date group to change the corresponding date and tap the   buttons of Time group to change the corresponding time. Tap  to return.

### Power


Tap  in the settings menu to enter **Power** menu for the current battery status, as shown below:

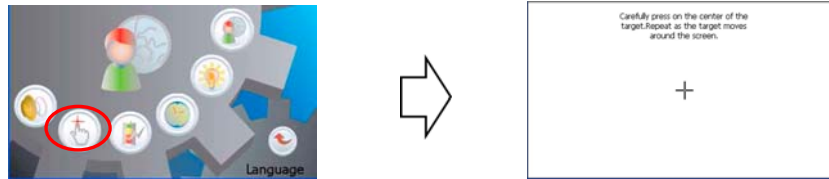


The power menu will display the current battery status. Tap  to return.

## General Setup

### Screen

Tap  in the settings menu, the screen will display as below:

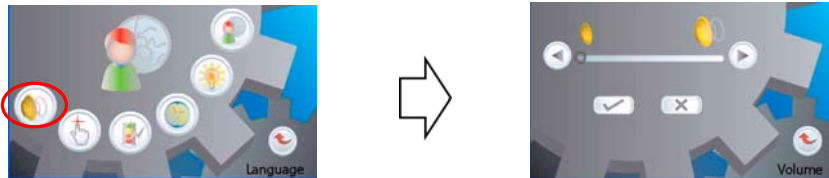


This item is used to calibrate the sensitivity of the touch screen. Tap the center of “+” as it moves around the screen. If you touch the center of “+” every time, it will disappear after having moved through a cycle (center→top left corner→bottom left corner→bottom right corner→top right corner). Tap the screen to return to the settings menu.

**Note:** If “+” doesn’t disappear, you should calibrate again.

### Volume

Tap  in the settings menu to enter **Volume** settings menu for volume adjusting, as shown below:



Tap the   buttons to adjust the volume. Then tap  to confirm or tap  to cancel.

## Playing Music

The unit is designed with SD card slot. You can insert the SD card with MP3, WMA and JPEG files. It supports MP3, WMA and JPEG format files playback.

**Note:** Do not store MP3, WMA and JPEG format files in the Flash storage, for the flash storage is used to store map data, any attempt to open the Flash storage may result in the map data missing and lost.


**Warning:** For your own safety, do not use the earphones when driving.

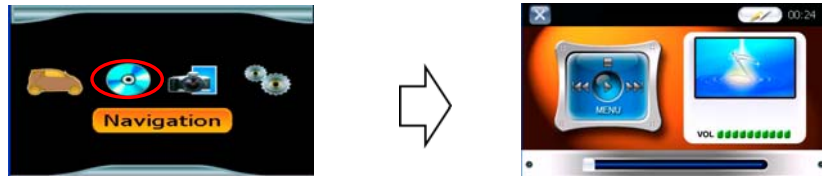
Take the following steps to play:

### Loading MP3, WMA and JPEG format files:

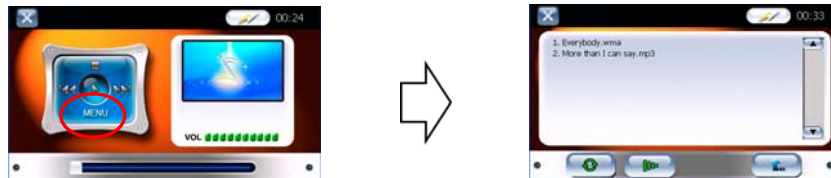
1. Insert the SD card with MP3, WMA and JPEG format files.
2. Turn on the unit.

### Playing Music.

In the main menu, tap  to enter the playback menu, as shown below:





In the menu, tap the **MENU** button to enter the MP3 play list menu, as shown below:







## Playing Music

When you open the play list, the system will look for MP3 files on its SD memory card and create a play list automatically. If the play list consists of more than one screen, tap the up arrow  for the previous page and the down arrow  for the next page.

In the play list, double tap the songs to start playback.


Tap ; when the button changes to orange, the player will repeat all the songs in the play list.

Tap ; when the button changes to orange, the player will play the songs in the list randomly.



Tap  to return to the MP3 main screen.

On the playback screen as shown right, the MP3 player has standard playback features:




Tap  button to start playing the songs in the play list.

Tap  to stop the playback.

Tap  to pause the playback, and then tap  to resume the playback.


Tap  to back to the previous song; tap  to skip to the next song.

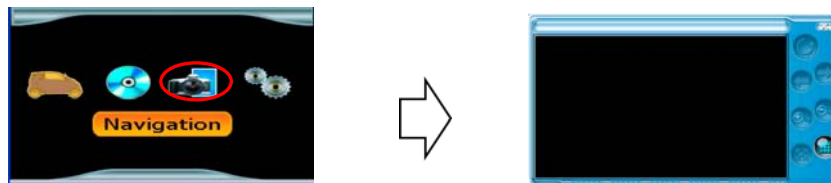
Use VOL  to adjust the volume of the speaker.


## Photo Viewer

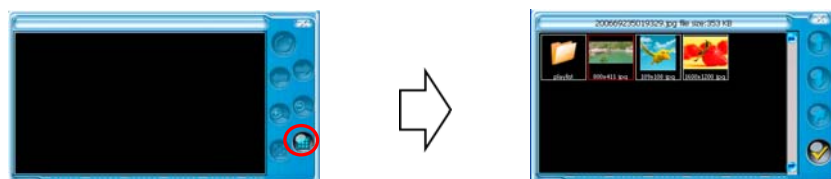
***It lags when reading high-resolution JPEG files in SD Card. We suggest low-resolution (within 640\*480) pictures playback.***





### Playing JPEG Files

On the main menu, tap  to enter the photo viewer main screen, as shown below:



In the Photo Viewer main menu, tap , the pictures stored in the memory card will be listed on the screen, as shown below:




If the pictures list consists of more than one screen, tap the up arrow  for the previous page and the down arrow  for the next page. Tap  to return to previous menu. Tap a picture to select it and tap  to confirm your selection.



In the pictures list, double tap a picture to play it on screen, as shown below.






On the playback screen, the Photo Viewer has following playback features:


## Photo Viewer

Tap  to rotate the picture.

Tap  to back to previous picture; tap  to switch to next picture.

Tap ,  to zoom the picture in or out.

Tap  to play the picture in full-screen mode; double tap the screen again to return to the Viewer main screen.

Tap  to return to the pictures list.

## GPS Unit Installation

Take the following steps to mount the unit in the vehicle using the supplied mount accessories (mount bracket, mount cradle, etc.):



Fig 1

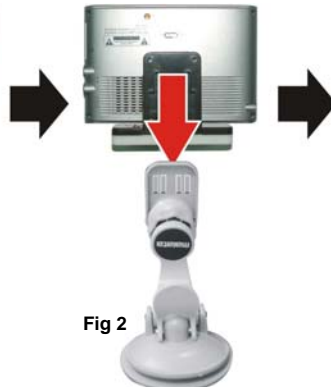
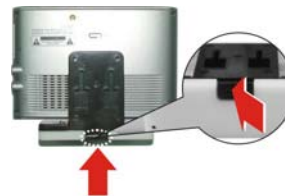


Fig 2



Fig 3

1. See Fig. 1. Fix the unit on mount cradle.  
There is one wireless receiver in the mount cradle. It can receive the signal sent by the emitter in the Back-up Camera and input these signals into the GPS unit by the combination of the unit and the cradle (see right figure).
2. See Fig. 2. Push the mount cradle and the unit to mount bracket.
3. See Fig. 3. Lift the suction fastener, and place the unit on the desired location, then press down fastener for immobility. Rotate the knob to adjust the unit to proper position.
4. If you want to remove the unit, press the tab at the bottom of the mounting cradle (see right figure).



### Warning:

The device must not be mounted so that it impairs the driver's view of the road. Please take extra precaution to ensure the airbags are not obstructed by the device.

# Back-up Camera Installation

## Back-up Camera System Parts

1. Back Up Camera with Video Cable
2. License Plate Bolts
3. Wedge Shaped Mounting Shims

**Note:** The parts and supplies included with the camera are sufficient for most installations. However some installations may require other parts and/or supplies to be purchased separately.

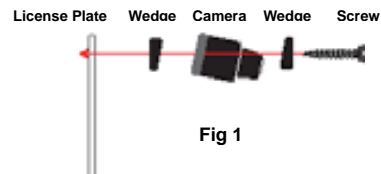
**WARNING:** This device, as well as all other wireless devices, may be subject to interference. Interference may be caused by cell phones, Bluetooth headsets, Wi-Fi routers, power lines and other various electrical equipment, etc. And you could not hold the GPS unit and mount cradle in your hands because this may results in interference too.

## 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. To adjust the angle that the camera is mounted to the vehicle use the supplied wedge shaped shims.

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)



3. Align with holes on vehicle and temporarily tighten the license plate bolts/screws. 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.

## Back-up Camera Installation

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.



Fig 2



Fig 3

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.
7. After you have drilled a hole, insert the supplied wedge (Fig.4), and then pass the power cable through the wedge into the vehicle (Fig.5). You must use the wedge to prevent the metal edge of the hole from cutting the power cable.

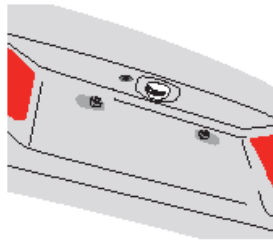


Fig 4

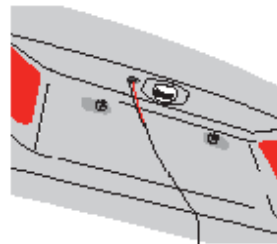
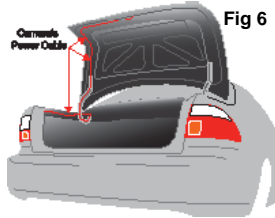


Fig 5

## Back-up Camera Installation

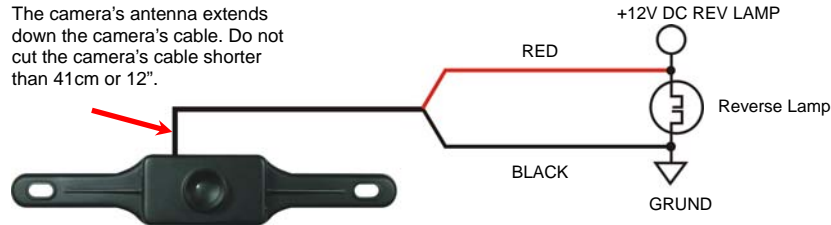
8. Next you'll need to find the vehicle's reverse lights. Turn the vehicle's ignition key to the accessory position, engage the parking brake and put the car in reverse. Look at the vehicle's tail lights to see where the reverse lights are located.  
To locate the reverse light's 12V+ wire it will be 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.
9. 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. Following the Scotch-Lok™ instructions, splice the Red wire using the in-line Scotch-Lok™ wire connectors to the reverse light's positive (+) wire. Use a set of slip joint pliers to squeeze the TAP and insure good connection.
13. 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.

## Back-up Camera Installation

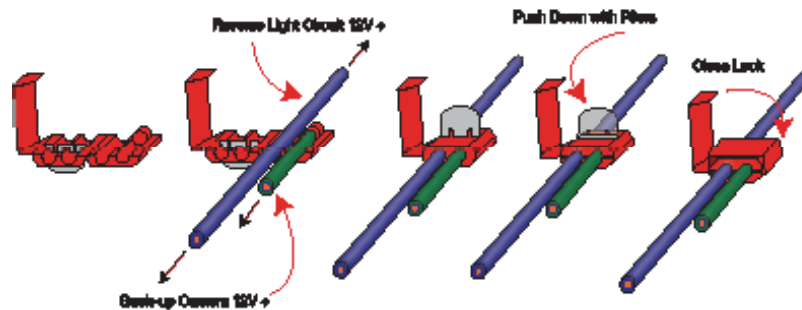
### CAMERA Wiring Diagram

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 (-).

The camera's antenna extends down the camera's cable. Do not cut the camera's cable shorter than 41cm or 12".



### Scotch-Lok™ Instructions



You do not need to use the Scotch-Lok™ connectors. The camera can be wired directly to the reverse light circuit by stripping the reverse light wires then twisting the camera wires to the exposed reverse light wires. Once connected, wrap with electrical tape. Do not attempt this if you are not knowledgeable with electrical installation practices.



## Back-up Camera Installation

### Testing the System

1. Reattach the vehicle's negative battery cable.
2. 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 your rear view mirror.
4. 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 supplied cable ties to neatly gather all excess wire.

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

### Operation of the Back-up Camera System

After previous procedure, you can use the Back-up Camera System now.

When driving, put the gear shift into reverse, the GPS unit will detect the signal and display the image on screen automatically, as shown below.

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



## Troubleshooting

Take steps described in the tables below to solve simple problems before contacting customer service.

If you suspect something wrong with the unit, immediately turn the power off and disconnect the power connector from the unit. Never try to repair the unit yourself because it is dangerous to do so.

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
Users can't turn on the unit.	The adaptor doesn't connect well.	Connect the adaptor correctly.
	The built-in rechargeable battery is weak.	Use the adaptor to supply power or charge the battery.
There is no sound.	The volume may be turned down or mute.	Turn up the volume or turn on the sound output.
There is too much dark in the picture.	The brightness may be turned down.	Adjust the brightness of the LCD.
The unit can't receive satellite signals or can't orient.	The unit may be obstructed by buildings or metal block.	Make sure to use the unit out of room; if in the vehicle, you can use the external GPS antenna to solve this problem.

## Troubleshooting

PROBLEM	POSSIBLE CAUSE	POSSIBLE SOLUTION
The unit can receive signals now but can't then; signals received are not stable.	The unit may be obstructed by veil, such as heat insulation paper.	Remove the veil.
	Swing of the unit is too great.	Avoid great swing of the unit.
	System software of the unit fails to function by change.	Turn on the unit again.

### **Other possibilities:**

Static or other external interference may cause the player function abnormally. In order to recover normal status, please unplug the power supply cord and then plug it into the outlet again to reset the player. If the problems still exist, please cut off the power supply and consult your service center or the qualified technician.

## Specifications

TFT screen size		4.3 inches
Frequency Response		20Hz~20kHz
Audio Signal-to-noise Rate		≥65dB
Audio distortion or noise		≤-20dB (1kHz)
Channel Separation		≥70dB (1kHz)
Dynamic Range		≥80dB (1kHz)
Power		AC 100-240V ~ 50/60Hz; DC 5V
Power Consumption		< 8W
Dimensions	GPS unit	117mmX80mmX20mm (L*W*D)
	Back-up Camera	215mmX36mmX33mm (L*W*D)
Weight		About 0.25kg

**DESIGN AND SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE**