

PRODUCT USER MANUAL









Parking Guides Wide Angle

ABC-123

Mount



P67 Rati



INTRODUCTION

WELCOME

Thank you for purchasing the Gator GRV43MDT 4.3" Mirror Monitor + Reverse Camera. Please ensure that you have read the product manual and instructions in full, prior to installation and use. Failure to do so may result in product failure/damage or incorrect operation and therefore impact the product performance. In terms of the wiring of the camera system, the Gator GRV43MDT can be installed in 2 different ways, wired or wireless. We call this versatility Dual Tech.

PRODUCT FEATURES

- Mirror Monitor
- 4.3" 16:9 High-resolution LCD screen
- Resolution 480*272
- Clip-On mount extends 53-70mm
- Blue Anti-glare screen
- 12V Compatible
- PAL
- Secondary Video RCA Input
- Dimensions 75(H) x 40(W) x 285mm(L)
- Stealth Camera
- 120 Degree wide angle lens
- Parking guide lines
- IP-67 Dust and water protection
- Stealth number plate mount
- CMOS Sensors
- 0.2 Lux
- 5M Video extension cable

PACKAGE COMPONENTS

Parts supplied include:

- Mirror monitor
- Stealth number plate mount camera
- 5M RCA extension cable
- Instruction manual
- Mirror monitor harness
- Camera harness



INSTALLATION

Installing the camera

In most instances, the camera is best mounted above the vehicles license plate as shown here.



Where this is not possible there are other camera combinations that will suit your individual application. When mounting the camera, make sure that the camera does not cover any part of the license plate. Choose a position that does not impede the access/operation of the boot release or tailgate latch.

To install the reverse camera, take the following steps:

1.Remove the rear license plate from the vehicle by undoing the bolts/screws.

2. Remove the wax paper from the adhesive strip on the back of the camera mounting bracket to expose the adhesive surface. Carefully align the brackets arm so that the top edge of the arms align to the top edge of where the license plate would sit and stick it in place making sure that 2 holes in the mounting bracket align with the mounting holes of the license plate.

3. With the license plate off, check if there are pre-existing holes through which the cables from the camera can be passed through to the boot of the vehicle as in Fig. 2. If there are no pre-existing holes carefully drill a hole of sufficient diameter to allow the cables to be passed into the interior of the vehicle (through a rubber grommet) and seal the hole with silicone to avoid water leakage. Refit the license plate over the camera bracket using the original bolts/screws.







GRV43MDT



WIRED INSTALLATION DIAGRAM

The video signal is transfered from the camera to the mirror monitor via an RCA cable that will need to be run from the boot through the passenger compartment to the monitors wired loom run under the dash. From there the power and video signals are sent directly to the mirror monitor. At the rear of the car the camera is powered directly from the reversing light.





WIRED INSTALLATION

1. Connect the RED wire of the Cameras Power Harness to the wire that supplies power to the reversing light globe (the wire that is energized only when the car is put into reverse). Before making the electrical connection, temporarily disconnect the camera from the power plug whilst making the connection to the reversing light globe. Use a suitable splicing/crimp connector (scotch lock type) or strip connector. This connection can also be soldered, making sure to insulate the joint with electrical insulation when done. The camera has only one wire to connect (positive (+). There is no need to hook up a ground earth wire as the camera gets its earth through the RCA cable. Hooking up the ground earth may cause a ground loop. In this case horizontal lines will appear in the image.

2. After you have insulated the join you can connect the power harness to the camera.

NOTE:

Some cars that run LED or computer controlled lighting systems may not deliver enough voltage to run the camera. If the voltage at the reversing wire light is less than +12 volts it may be necessary to use a relay to supply power to the transmitter harness from the wiring in the front of the car. In this case the reversing light only needs to trigger the relay. Make sure that you do not drill holes in the panels that have an opposite face that is visible outside the car for example guard panels. In fact, whenever drilling holes in the bodywork of a vehicle, always see what is on the other side.

3. Connect one end of the supplied RCA cable to the RCA socket from the camera, then run the RCA cable to the front under side of the driver side dash board. This is where the mirror monitor's loom will be located. To do this you will need to remove the rear seat to pass the cable into the cabin area and you will need to remove the door scuff plates to run the wire along the side of the vehicle. The RCA cable will be hidden when you replace the scuff plates. When the cable is at the front of the vehicle the RCA cable cable needs to be run from the scuff plate area to the underside of the dash behind the kick tim (remove and run cable).

4. The mirror mount monitor has two power wires to be connected. Connect the red wire (accessories +12V) to a wire that is energized when the vehicles accessories is turned on. Connect the black wire to a ground earth wire or to the body of the car using the steel of the cars body behind the kick trim as an earth. In this case drill a small hole and connect the wire using a suitable ring terminal. Scrape off the cars paint around the hole to ensure good earth.

5. Connect the RCA cable to the RCA socket from the monitors loom.



WIRELESS INSTALLATION DIAGRAM

Wireless installation refers to the connection of the video signal to the monitor. In a wireless installation there is no need to run a video cable through the passenger compartment which can be difficult for some DIY installers. Instead the signal is sent wirelessly to the mirror monitor. This feature means that the time and difficulty of installing the cameras system is greatly reduced. At the rear of car the camera is connected to a wireless transmitter which is powered from the reverse taillight wire. In the event that you live in an area were RF interference is a problem (Poor video signal), you may need to change your installation to wired.



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WIRELESS INSTALLATION

1. Connect the RED wire of the wireless video transmitter to the wire that supplies power to the reversing light (this is the wire that is energized when the vehicle is put into reverse). Please measure the voltage on this wire to make sure that it is +12V when it is energized. Use a suitable splicing/crimp connector (Scotch lock type) or strip back the insulation and solder the connection making sure to insulate the connection with electrical tape or shrink tubing after the join is made.

2. Connect the BLACK wire of the transmitter to a suitable ground such as the metal body of the vehicle. To attach, find a suitable metal panel making sure that there are no wires and electronics behind this panel. Drill a small 1/8th hole. Attach an "O" ring terminal the end of the BLACK wire, then secure the wire to the chassis using a suitable self-tapping screw. To ensure a better earth connection, scrape away the paint around the hole before screwing the terminal to the hole.

3. Plug the other connections of the transmitter cable into the corresponding sockets of the cameras harness.

NOTE:

Some cars that run LED or computer controlled lighting systems may not deliver enough voltage to run the camera. If the voltage at the reversing wire light is less than +12 volts it may be necessary to use a relay to supply power to the transmitter harness from the wiring in the front of the car. In this case the reversing light only needs to trigger the relay. Make sure that you do not drill holes in the panels that have an opposite face that is visible outside the car for example guard panels. In fact, whenever drilling holes in the bodywork of a vehicle, always see what is on the other side.

Testing the reverse camera function

1. Engage the park brake and turn the ignition key to the on position. DO NOT start the vehicle.

Select reverse gear with the gear shift. The mirror monitor will sense the video signal from the camera automatically and will display the camera's image of the rear of the vehicle.



MENU FUNCTIONS

Menu options and settings





- 1. Press the middle button for Menu access functions (see Fig.1)
- 2. Press the top button repeatedly to increase value
- 3. Press the bottom button repeatedly to decrease value
- Brightness: Adjusts screen brightness
- Contrast: Adjusts screen contrast
- Saturation: Adjusts screen saturation
- Zoom: Changes display mode between 4:3 & 16:9 ratio
- Language: Select menu language
- Reset: Resets all menu setting back to factory configuration

TECHNICAL ASSISTANCE

If you need assistance setting up or using your Gator product now or in the future, call Gator Support. Australia

TEL: 03 – 8587 8898 FAX: 03 – 8587 8866 Mon-Fri 9am – 5pm AEST \bigcirc

Please retain this user guide for future reference.

If you would like to download a digital copy of this manual, or other Gator manuals/software, please visit the http://gatordriverassist.com website and click on 'Firmware & Manuals' for information on where to find the manuals/software.

This manual is considered correct at time of printing but is subject to change. For latest manuals and updates refer to the website.

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