

# 4 INCH MIRROR/MONITOR REVERSING CAMERA SYSTEM

ARV4M



Colour

Wide  
Angle Lens

Car rear  
View

IP67

Low  
Light  
Vision

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# PARTS INCLUDED

ARV350WD

Thank YOU for purchasing the GATOR Driver Assist ARV4M Reverse Mirror Monitor and camera kit.

Please examine the contents of your package and identify the included accessories



TFT LCD Monitor



Weatherproof Water Resistant Camera



Remote Control



Camera Power Cable



Camera Video Cable



Monitor Harness

## NOTE

We suggest that this system be installed by a professional installer or a person with a fair level of mechanical and electrical knowledge

:1:

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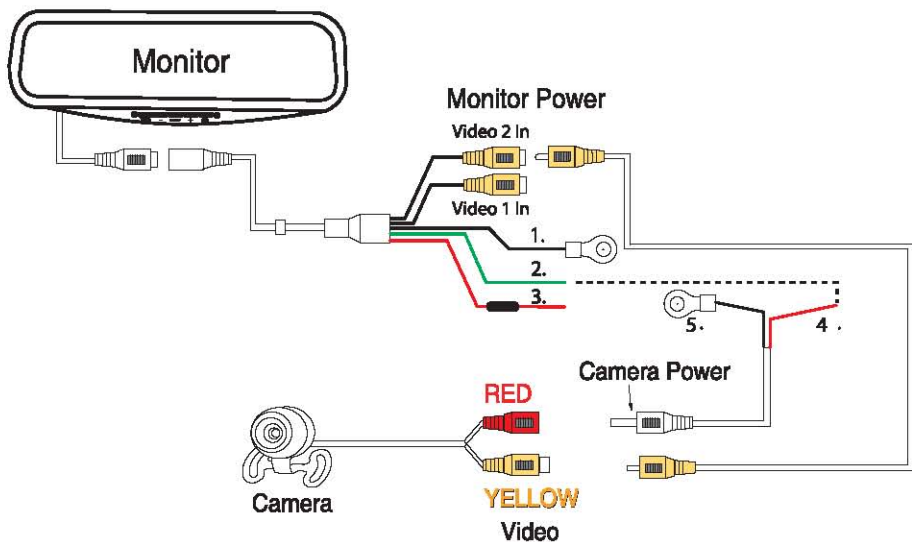
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# SYSTEM CONNECTION

## SYSTEM CONNECTION DIAGRAM

The diagram shown below is an easy and helpful guide to get your new Gator Driver Assist 4" Rear View camera and mirror monitor system up and ready to use.



### WIRING INSTRUCTIONS

1. Connect **BLACK** wire to Chassis -
2. Connect **GREEN** wire to Reverse light+
3. Connect **RED** wire to Acc+
4. Connect to Reverse light +
5. Connect to Chass/Ground

# INSTALLATION

## Step 1. Positioning and Installing the Monitor

Consult your local motor vehicle office if you are unsure as to the legal usage of this product in your state or territory.

- 1) Using the spring clips attach the monitor over the existing rear view mirror in the vehicle as shown in diagram 1.
- 2) Plug in the monitor harness (The short harness that connects to the Monitor with the Black, Green and Red wires at the other end) and route the cable along and over the top of the windscreen and down along the pillar shown in diagram 2. to the area under the driver side dash panel, or to driver's side kick trim panel area. (This area is usually the most likely place to find the fuse box or a suitable accessory power wire that you will need.)
- 3) Please make sure that the cable does not obstruct the cars air bags or any other function of the car.
- 4) It is advisable to conceal the wiring if possible by running it under the trims.
- 5) Unplug the harness from the monitor before proceeding to Step 2.

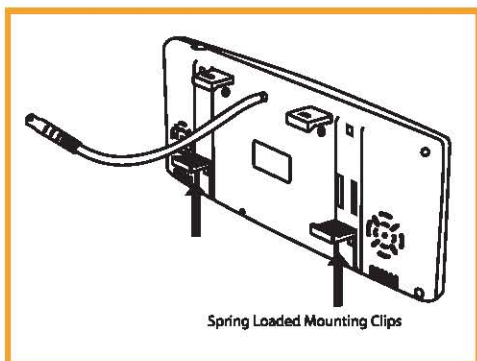


Diagram 1.

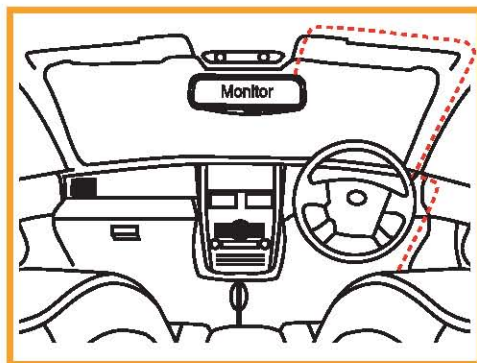


Diagram 2.

# INSTALLATION

## Step 2.

### INSTALLING THE CAMERA

The camera is best mounted above the vehicles license plate. In some instances this may not always be possible and you may have to mount the camera in another location as in Fig. 4 ( below the license plate) or as shown in position in Fig.3 ( attached to the under side of the bumper bar just above the license plate. When mounting the camera make sure that the camera does not cover any part of the license plate. When selecting a suitable mounting location, make sure you choose a position that does not impede the access / operation of the vehicle's boot or tailgate latch.

1. When mounting the camera above or below the license place, you must first remove the rear license plate from the vehicle by undoing the bolts /screws.
2. If possible, mount the camera slightly above or below where the licence plate is located so that the winged mounting bracket holes are below the edge of the plate and fasten it with two metal self tapping screws. With the licence plate off, check if there are pre-existing holes through which the cables from the camera can be passed into the boot of the vehicle.
3. If there are no pre-existing holes 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.

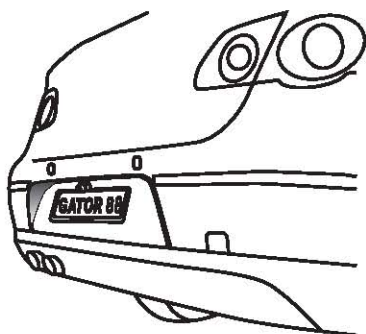


Fig.2



Fig.3



Fig.4



# INSTALLATION

## Step 3.

### CONNECTING POWER TO MONITOR

**Note:** Before you connect power to the monitor harness. For electrical safety, make sure that the harness is un-plugged from the monitor whilst you connect up the power wiring. After you have connected the power wires you can then connect the monitor harness to the Monitor.

1) Neatly run the monitor harness (The short harness that connects to the Monitor with the Black, Green and Red wires at the other end) from the monitors mounting position to the area under the driver side dash panel, or to driver's sidekick trim panel area. (This area is usually the most likely place to find the fuse box or a suitable accessory power wires that you will need.)

2)

- a. The end of this harness has the Red Power wire and a Black Earth wire. The Red wire must be connected to a power source that is energised only when the accessory power is on (Not constant power). This ensures that the system does not operate when the vehicle is off (which would drain the cars battery). You can find an accessory power wire from the fuse box if it is located near by. Alternatively you can use a test light to find an accessory wire leading to the key barrel and splice in.
- b. The Black wire should be connected to earth. To attach the earth wire, first find a metal panel somewhere near, or on the metal plate behind the kick trim that is clear of electronics and wires behind the panel. Drill a small 1/8th Hole in the panel, attach an "O" ring terminal to the end of the Black wire, then secure the wire to the chassis using a suitable self-tapping screw. (For a better earth connection you may wish to scrape away/remove the paint around the hole before attaching the earth.)

#### Running the wiring harness to the rear of the vehicle:

Note regarding the Green wire:

The green wires function is to tell the monitor that the car has been put into reverse (Backing up), so that it turns on the monitor automatically. Applying power to the green wire triggers this function. The most common source of power when the car is put in reverse (Backup power) is from the positive wire leading to the reversing light globe at the rear of the vehicle.

Some advanced installers can locate the vehicles reversing light power from underneath the driver's side dashboard or underneath the centre console near the gear selector. However, most installers extend the Green wire to the rear of the car, and attach it to the wire that leads directly to the reversing light. This is the same wire that you will be using to power the camera because the camera also only needs to be powered when the car is placed in reverse. If you decide to trigger the system from the reversing light wire you will need to extend the green wire to the back of the vehicle.

# INSTALLATION

3)

- a. Plug in the supplied video cable to the Monitor Harnesses Camera input. The camera input is the White Female RCA Connector.
- b. Attach an insulated 5-metre length of wire (16 to 20 gauge thick) to the green wire (Long enough to reach the reversing light power wire). Then use a crimp terminal or solder and insulate the join.
- c. Run the Backup (Reverse) power wire and the video signal cable together to the rear of the vehicle. When running the cables the best route is to run the wires down the driver's side of the vehicle, tucked under the sides of the interior carpet. To do this, you will need to remove the Front and rear door scuff plates and any other trim panels that obstruct access to the edge of the carpet, such as pinch weld rubbers etc. Once the harness is run to the back seat area you may need to remove the back seat, including the backrest, to run the cables from the passenger area to the boot area of the vehicle (Removal of back seat is dependent on vehicle type and design of the vehicle).
- d. Once the cables are in the boot area, run them to the location where you will connect them to the reversing light wires (Opposite the tail lights). You will more than likely need to remove the side boot trims, so that the wires are neatly concealed behind these panels. However, in some cases you can bend these panels at the top after removing the boot pinch weld rubbers, and simply tuck them in behind without completely removing them.

## Interconnection of Monitor and Camera:

4)


- a. By now your monitor is installed, your camera is mounted, and the video and backup wires from the monitor are located near the taillight wiring system of the vehicle, so to is the harness from the camera including the camera's power wires. Now, join both the Red wire from the camera harness and the extended green wire (Backup power) together, and then connect them both to Back up Power (the wire that is energised only when the car is put into reverse -The wire that supplies power to the reversing light globe). Use a suitable splicing/crimp or strip back the sheath of the wire and solder the connection. Ensure that you insulate the connection with electrical tape or heat shrink tube.
- b. Connect the video lead from the camera to the video lead coming from the monitor.
- c. The Black wire from the camera should now be connected to earth. To attach the earth wire, first find a metal panel somewhere near by. If you are struggling to find a suitable location you may find that the metal around the wheel arch is a good place to look. Just make sure it is clear of electronics and wires behind the panel. Drill a small 1/8th Hole in the panel. Attach an "O" ring terminal to the end of the Black wire, then secure the wire to the chassis using a suitable self tapping screw (For a better earth connection you may wish to scrap away/remove the paint around the hole before attaching the earth.)

**Note:** make sure that you do not drill holes in panels that have an opposite face that is visible for outside of the car. eg. guard panels. In fact, whenever drilling holes in the bodywork of a vehicle, always see what's on the other side

# INSTALLATION

## Step4.

### TESTING THE SYSTEM

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.
2. The Monitor will turn on and the camera should start broadcasting the image of the view behind the vehicle.
3. At this stage you may need to adjust the angle of the camera. This can be done by bending the metal mounting bracket of the camera.
4. To access the AV1 video input take the car out of reverse gear and press the ON button marked  and press V1/V2 .

**NOTE.** The the monitor will always revert to the rear view camera whenever the car is put into reverse gear.

**Important: Keep camera lens and monitor clean to ensure optimum picture quality!**



# GENERAL SPECS, NOTES and WARRANTY INFO

## USER NOTICE

- Please pay particular attention when mounting the various components
- If unsure please use a professional tradesperson
- Disconnect the battery before starting the installation
- Although this system aids car reversing, it is mandatory that the rear view mirror should not be removed from the vehicle
- Please check the system thoroughly before driving vehicle

## SPECIFICATIONS:

Rated voltage: DC10.5V-16V  
Rated electric current: 40-200mA  
System working temp: -35°C~+75°C  
Monitor type: TFT LCD screen  
Camera view angle: P/N: 95° /130°  
Min. illumination: 0.1 lux



## WARRANTY DETAILS

This product is warranted for 1 year from the date of purchase under the following conditions

1. That it is not damaged by accident
2. That it was not disassembled by any unauthorised repairer
3. That the unit was correctly installed
4. That the owner presents proof of purchase at the time of requesting warranty repairs
5. If any of the above conditions are not met, then the repair may incur a repair charge

**This warranty is limited to the product and its accessories only.  
This warranty does not extend to any third-party loss or damages.  
the warranty does not cover labour costs associated with the products installation or removal for warranty service.**



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