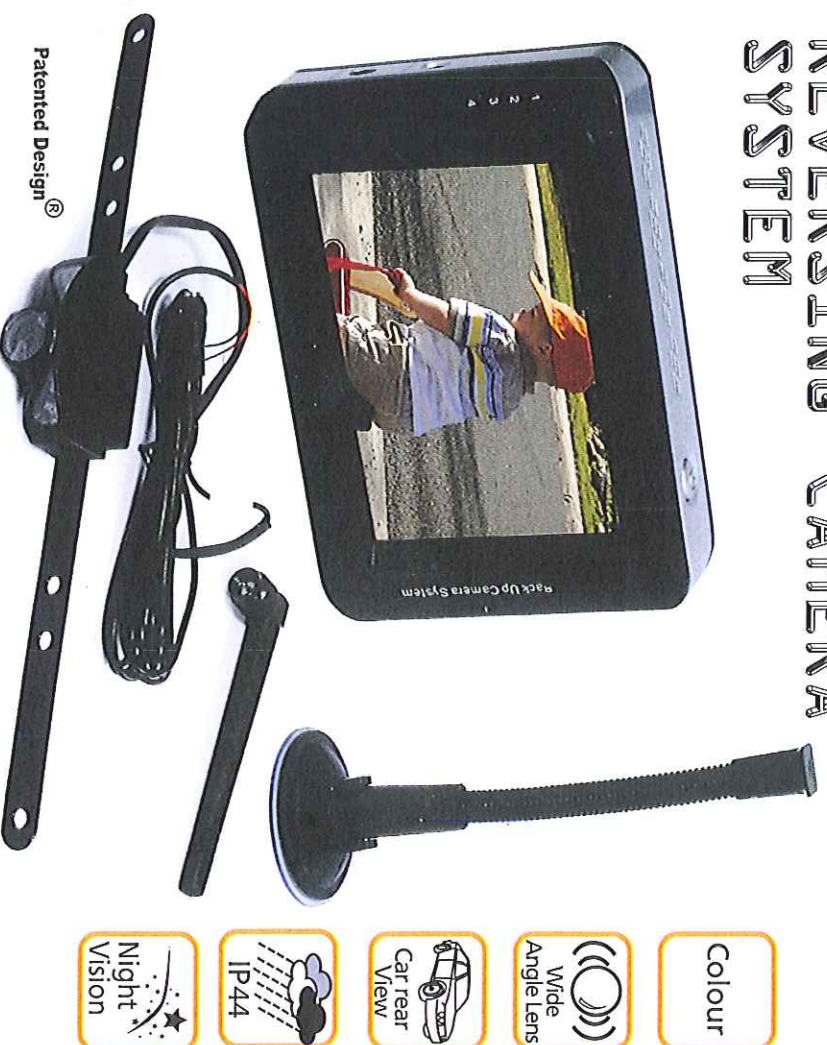


3.6 INCH REVERSING CAMERA SYSTEM

ARV36SYS



Colour

Wide
Angle Lens

Car rear
View

IP 44

Night
Vision

Aerpro®

First Choice

WWW.AERPRO.COM
HELP AVOID ACCIDENTS & INJURIES

Copyright TDJ Australia Pty. Ltd

WWW.AERPRO.COM
HELP AVOID ACCIDENTS & INJURIES

Copyright TDJ Australia Pty. Ltd

SPECIFICATIONS

SPECIFICATIONS:

Display Size:	3.6 Inch (AR 4:3)
Camera Connection Method/s:	Dual Tech CMOS
Camera Type:	80° Horizontal & 60° Vertical Viewing Angle
Viewing Angle Range:	Stealth / Number Plate
Mount Type:	12~24V
Power Voltage:	IP44
Camera IP Rating:	960 x 240
Effective Pixels:	-10°C ~ +50 °C
Operating Temperature Range:	85% RH
Operating Humidity:	Cigarette Lighter Adaptor, Camera Hard Wire Harness, Wind Screen Mounting Bracket, 5 Metre Video Extension Cable.
Accessories Included:	



WARRANTY DETAILS

If you wish to register your product with us, please go to our web site at www.aerpro.com and follow the warranty registration prompts from the home page. Thank you.

PARTS INCLUDED

Thank YOU for purchasing the GATOR Driver Assist ARV36SYS unit with Dual Tech Reverse camera kit.

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



NOTE

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

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

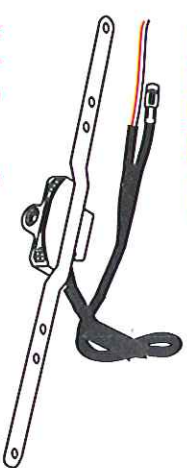
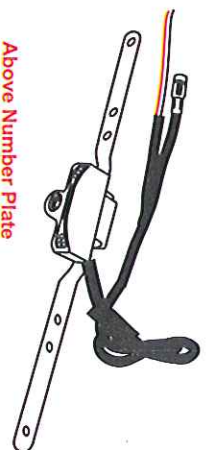
ARV36SYS

CAMERA INSTALLATION

BRACKET ORIENTATIONS FOR VARIOUS MOUNTING APPLICATIONS



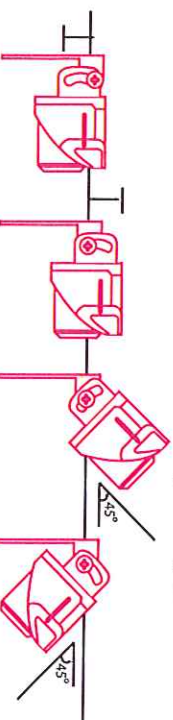
The camera mounting bracket can be disconnected and reorientated to suit the various different installation types.
Patented Design®



Under Bumper Bar

Vertical Position Adjustment.
Prevents Obstruction problems.

Vertical Angle Adjustment allowing for different view point heights.



Note: If required the wings of the bracket can be trimmed (cut off) for use as a gimbal / butterfly type camera.

2:

TESTING THE SYSTEM

TESTING THE REVERSE CAMERA 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. The monitor will go to a black screen when the vehicle is taken out of reverse gear, and will turn off as soon as the ignition is turned OFF

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

There are four different views for the monitor, each time the Image Orientation button is pressed the image will change.

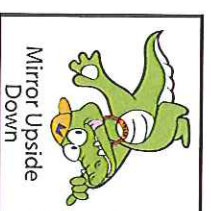
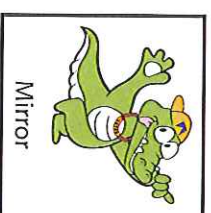
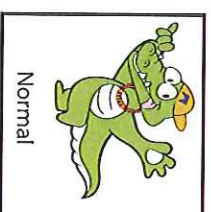


FIG.1

These different views allow you to mount the camera and / or monitor either right side up or upside down and still display the image correctly on the monitor. The image display should be a simulated mirror image so that objects on the rear drivers side appear on the driver's side of monitor. After testing the unit, fully tighten the licence plate bolts. Route all wire behind interior panels or under carpeting so they are hidden. Use supplied cable ties to neatly gather any excess wire. Keep camera lens and monitor clean to ensure optimum image quantity.

15:

HARD-WIRED INSTALLATION

- Run the cable all the way to the rear of the vehicle and into the boot to where vehicle's rear tail light harness is located. 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).

- Once the cable is in the boot area, run it to the location where the camera harness is located. You will more than likely need to remove boot trims, so that the wires are neatly concealed behind these panels. However, in some cases you can bend these panels at the sides after removing pinch weld rubbers etc., and simply tuck them in behind the panels without completely removing them.

NOTE: Make sure that you do not drill holes in panels that have an opposite face that is visible 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.

Step 5.

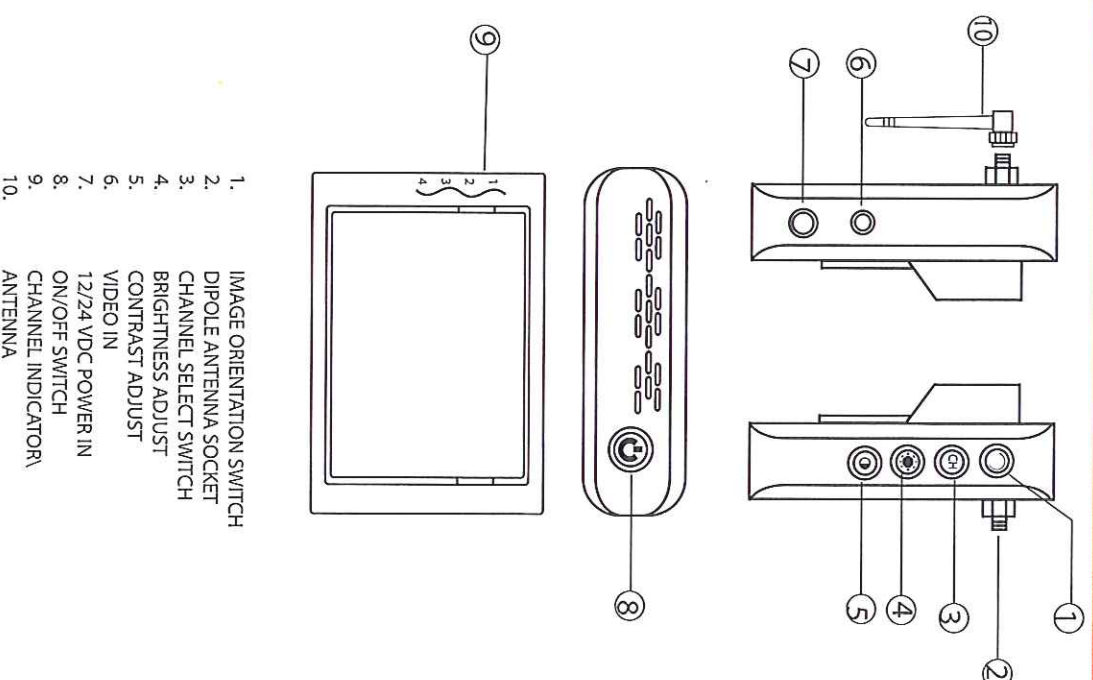
CONNECTING POWER and VIDEO TO THE CAMERA

- Run the camera cable over to the location where the vehicle's reversing light wiring can be accessed (same place as you ran the video connection cable).
- Connect the RED wire 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 connector (Scotch Lock type) 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 after you have finished avoiding short circuits.
- 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 near the reversing light wire, you may find that the metal around the wheel arch is a good place to look (you can extend the earth cable if required just make sure the wire that you use is the same size or slightly larger so that you do not lose any voltage over the cable. Make sure the selected earthing point 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).
- Plug the video cable jack into the 3.5mm socket of the rear view camera.
- You are now ready to test your new rear view camera and monitor system

Important Note: When Plugging and Unplugging the video lead to the monitor ALWAYS make sure the power switch is in the OFF position first to avoid possible damage to the unit.

14:

MONITOR DETAILS



3:

SYSTEM CONNECTION

SYSTEM CONNECTION

This Reversing Camera kit uses our new Dual Tech Camera system for the rear view function offering the user the choice of a wireless or hard-wired connection.

WIRELESS OPTION

When using the wireless option, the image from the rear view is transmitted wirelessly to the monitor eliminating the need for running wires from the monitor to the rear of the car to where the camera is mounted. This is the easiest and quickest installation method but can be susceptible to some interference due to transmissions from other wireless devices and atmospheric conditions.

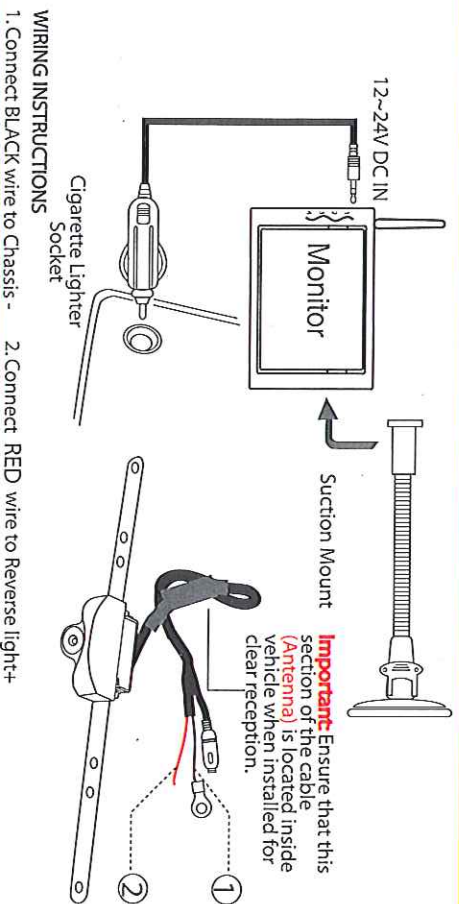
NOTE: The antenna of the camera (button into the harness) must be located inside the cabin area of the vehicle.

HARD-WIRED OPTION

With the hard wired option you will need to run wires from the front of the vehicle where the monitor is mounted to the rear of the vehicle where the camera is mounted. This installation will take a little more time but the picture quality from the rear view camera is not susceptible to interference, and is recommended for long bodied vehicles, cab chassis, and other vehicles where there is more metal panels between the camera and cabin area of the vehicle.

WIRELESS CONNECTION DIAGRAM

The diagram shown below is an easy and helpful guide to get your new Gator ARV365YS. Reversing Camera kit up and ready to use.



HARD-WIRED 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 unplugged from the monitor whilst you connect up the power wiring. After you have connected the power wires you can then re-connect the harness to the Monitor.

The monitor can be powered in either of two ways, the easiest method is to use the supplied cigarette lighter adapter. The hard wired method is to use the monitor power harness which is hard wired to the vehicles' accessory circuit.

1a) Cigarette lighter adapter option:

Plug the output of the cigarette lighter adapter into the socket marked 12/24 VDC in socket on the left side of the monitor. This completes the power connection to the monitor.

1b) To use the hard wired option plug in the supplied power monitor adapter (this is the lead with a 3.5mm plug on one end and a RED and BLACK wire on the other end): Neatly run the lead to the area under the driver side dash panel, or to the driver's sidekick 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).

2. 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 car's 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.

3. 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).

Step 4.

RUNNING THE VIDEO CONNECTION CABLE

1. Plug in the shorter of the video cables into the VIDEO IN socket on the left side of the monitor (this is the shorter cable with the 2.5mm video jack on one end and the 3.5 mm jack on the other). Run this cable to the kick trim area. Along the same route as the power harness (if used).

HARD-WIRED INSTALLATION

UNDER EAVE / UNDER BUMPER (FIG.4)

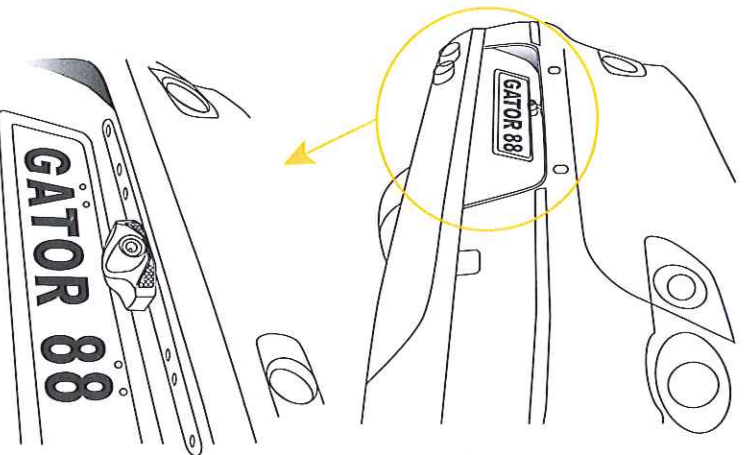


Fig.4

When mounting the camera using this method, the number plate does not need to be removed unless it is hindering your access to the installation location.

1. Remove the backing tape from the camera bracket and adhere the camera and bracket on the surface above the licence plate as per Fig4.
2. Use self tapping screws to fix the bracket to the vehicle's bumper bar.
3. Check if there are pre-existing holes through which the cables from the camera can be passed into the boot of the vehicle. 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.

:12:

WIRELESS INSTALLATION

These installation instructions do not apply to all vehicles. They are meant only as a general guide due to the large number of vehicle makes and models. For vehicle specific questions, contact your vehicle's manufacturer.

Step 1. (Wireless)

POSITIONING AND INSTALLING THE MONITOR

The monitor is mounted using the suction mount holder that is attached to the windscreen of the vehicle.

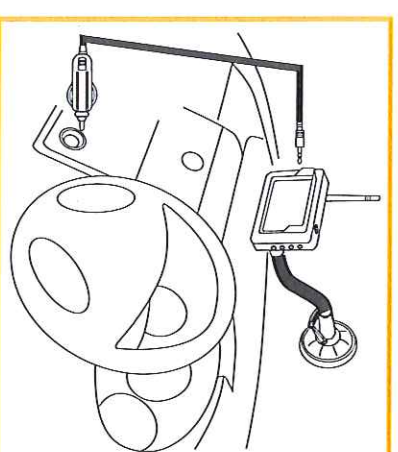
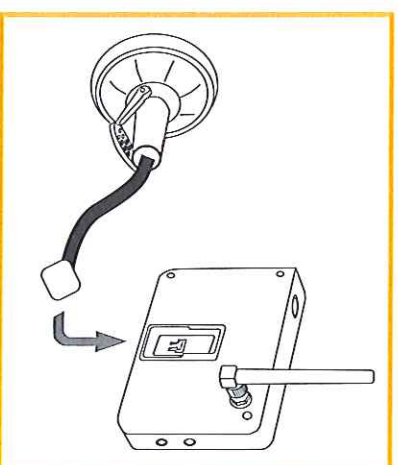
When choosing a location to mount the monitor, make sure the monitor is mounted in an area that will not obstruct your vision while driving or interfere with the safe operation of your vehicle.

NOTE: When selecting the location for the monitor make sure that it is well away from the vehicle's Air-bags.

Make sure that the surface of the windscreen where you attach the monitor to be free of dust and greasy material. You may need to clean the surface prior to fixing the monitor in place.

The monitor does not necessarily need to be mounted in the location as indicated in the below illustration. It can be mounted in a location that best suits the user as long as the safety precautions are observed.

After mounting the monitor, plug the cigarette lighter power adapter into the cigarette lighter socket. Run the lead up to the Monitor and plug it into the Socket located second from the top on the left hand side of the monitor.



Mounting the Monitor

:5:

WIRELESS INSTALLATION

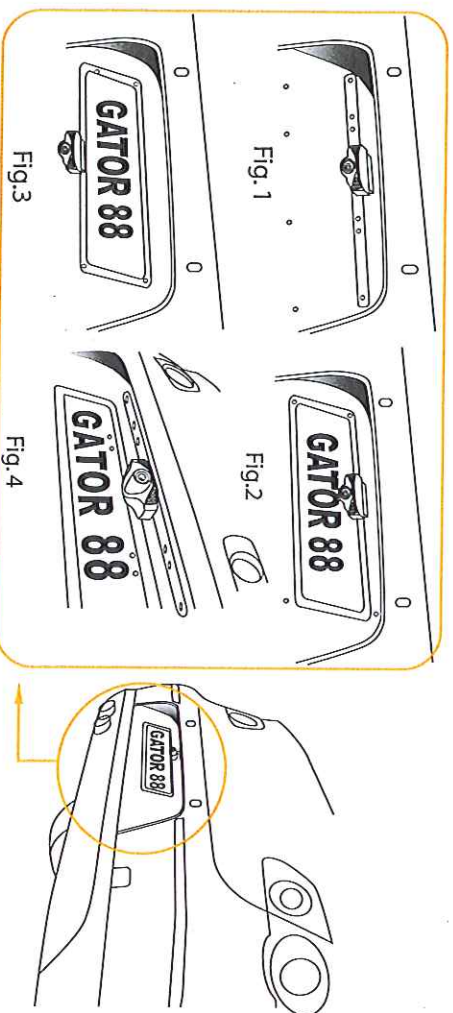
Step 2.

INSTALLING THE CAMERA

In most cases, the camera is best mounted above the vehicles licence plate as in Fig. 2. In some instances this may not always be possible and you may have to mount the camera in another location as in Fig. 3 (below the licence plate) or as in Fig 4 (attached to the under side of the bumper bar just above the licence plate). When mounting the camera, make sure that the camera does not cover any part of the licence 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.

LICENCE PLATE MOUNT (FIG. 2, 3)

1. When mounting the camera above or below the licence plate, you must first remove the rear licence plate from the vehicle by undoing the bolts /screws.
2. Remove the wax paper from the mounting bracket of the camera to expose the adhesive surface. Carefully align the bracket with the top edge of the where the license plate would sit and stick it in place making sure the mounting holes line up with the existing holes that secure the license plate (refer Fig.1).
3. 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. 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.
4. **Ensure that the Antenna section of the cable is located inside vehicle when installed for clear reception.**
5. Refit the vehicle's licence plate over the camera bracket using the original plate bolts / screws.



:6:

HARD-WIRED INSTALLATION

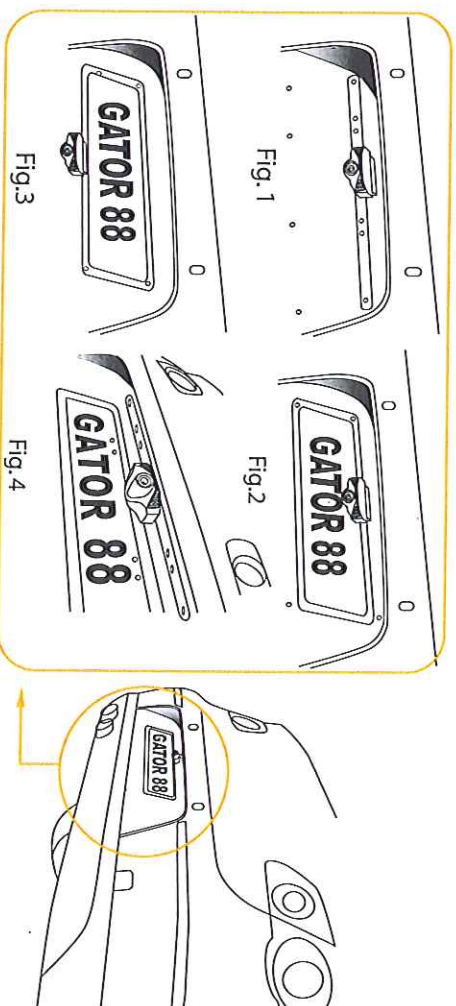
Step 2.

INSTALLING THE CAMERA

In most cases, the camera is best mounted above the vehicles licence plate as in Fig. 2. In some instances this may not always be possible and you may have to mount the camera in another location as in Fig. 3 (below the licence plate) or as in Fig 4 (attached to the under side of the bumper bar just above the licence plate). When mounting the camera, make sure that the camera does not cover any part of the licence 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.

LICENCE PLATE MOUNT (FIG. 2, 3)

1. When mounting the camera above or below the licence plate, you must first remove the rear licence plate from the vehicle by undoing the bolts /screws.
2. Remove the wax paper from the mounting bracket of the camera to expose the adhesive surface. Carefully align the bracket with the top edge of the where the license plate would sit and stick it in place making sure the mounting holes line up with the existing holes that secure the license plate (refer Fig.1).
3. 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. 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.
4. Refit the vehicle's licence plate over the camera bracket using the original plate bolts / screws.

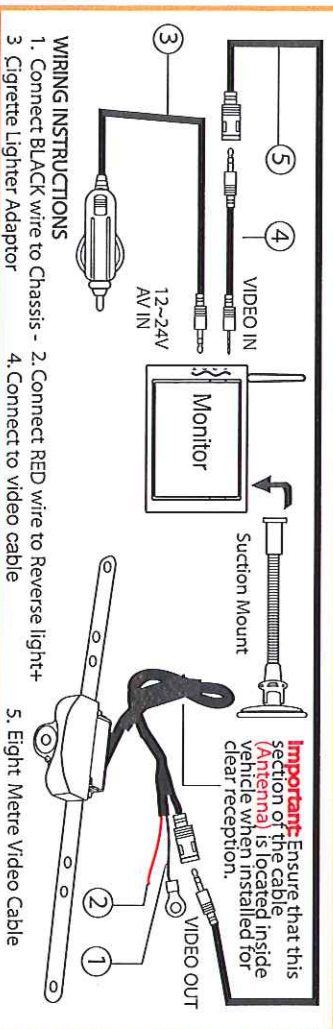


:11:

HARD-WIRED INSTALLATION

HARD WIRED CONNECTION DIAGRAM

The diagram shown below is an easy and helpful guide to get your new Gator ARV36SYS unit and reverse camera kit up and ready to use.



These installation instructions do not apply to all vehicles. They are meant only as a general guide due to the large number of vehicle makes and models. For vehicle specific questions, contact your vehicle's manufacturer.

Step 1. (Hard-Wired)

POSITIONING AND INSTALLING THE MONITOR

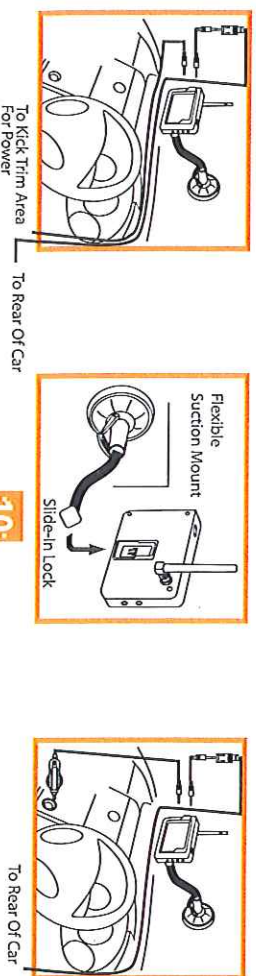
The monitor is mounted using the suction mount holder that is attached to the windshield of the vehicle (refer to diagrams below).

When choosing a location to mount the monitor, make sure the monitor is mounted in an area that will not obstruct your vision while driving or interfere with the safe operation of your vehicle.

NOTE: When selecting the location for the monitor make sure that it is well away from the vehicle's Air-bags.

Make sure that the surface of the windscreen where you attach the monitor to be free of dust and greasy material. You may need to clean the surface prior to fixing the monitor in place.

The monitor does not necessarily need to be mounted in the location as indicated in the below illustration. It can be mounted in a location that best suits the user as long as the safety precautions are observed.



CAMERA INSTALLATION

UNDER EAVE / UNDER BUMPER (FIG.4)

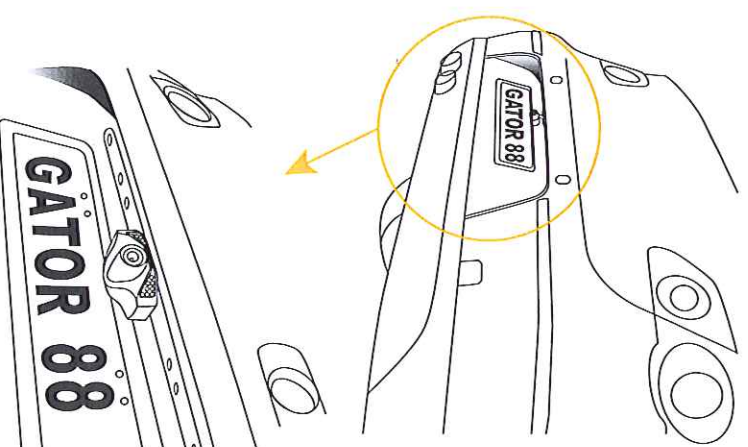


Fig. 4

When mounting the camera using this method, the number plate does not need to be removed unless it is hindering your access to the installation location.

1. Remove the backing tape from the camera bracket and adhere the camera and bracket on the surface above the licence plate as per Fig4.
2. Use self tapping screws to fix the bracket to the vehicle's bumper bar.
3. Check if there are pre-existing holes through which the cables from the camera can be passed into the boot of the vehicle. 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.

WIRELESS INSTALLATION

Step 3.

CONNECTING POWER TO THE CAMERA

1. Run the camera cable over to the location where the vehicles reversing light wiring can be accessed.
2. Connect the RED wire 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 connector (Scotch Lock type) 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 after you have finished to avoid short circuits.
3. 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 near the reversing light wire, you may find that the metal around the wheel arch is a good place to look (you can extend the earth cable if required) just make sure the wire that you use is the same size or slightly larger so that you do not lose any voltage over the cable. Make sure the selected earthing point 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 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.

Step 4.

TESTING THE REVERSE CAMERA 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. The camera should start broadcasting the image of the view behind the vehicle.
2. The camera will start transmitting, the monitor will detect the signal and turn itself ON. If the monitor does not come ON, press the ON/OFF button.
3. If the image does not display a mirror image view, press the top button on the monitor to change the image orientation (ref. Fig 1, page 9).
4. When you take the gear shift out of reverse the camera will turn OFF, and the monitor will turn black.

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

WIRELESS INSTALLATION

There are four different views for the monitor, each time the Image Orientation button is pressed the image will change.

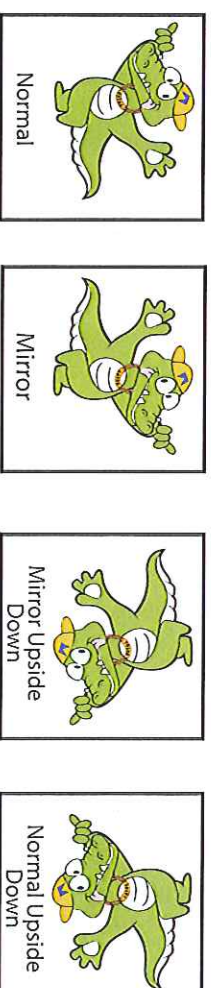


FIG. 1

These different views allow you to mount the camera and / or monitor either right side up or upside down and still display the image correctly on the monitor. The image display should be a simulated mirror image so that objects on the rear drivers side appear on the driver's side of monitor. After testing the unit, fully tighten the licence plate bolts. Route all wire behind interior panels or under carpeting so they are hidden. Use supplied cable ties to neatly gather any excess wire. Keep camera lens and monitor clean to ensure optimum image quantity.