Model Number: 035-0742



BACKUP CAMERA 5" MONITOR DISPLAYS HD IMAGE, SUCTION CUP MOUNT



INSTALLATION AND OWNER'S MANUAL



Please read this manual carefully before using and keep it for future reference.



WELCOME



Congratulations on purchasing your new 5" backup camera kit. This product uses the latest technology to ensure performance, reliability and durability. The compact design and quick connectors make the system simple to install and ideal for DIY installation.

Please read all of the installation instructions carefully before installing this system. Improper installation will void manufacturer's warranty. These installation instructions do not apply to all types of vehicles, and are only guidelines to assist in installing the system.



BEFORE

Using this reversing system, please read the safety information provided in this user manual.



ALWAYS

Use the product as outlined in this user manual.

IPAS

Intelligent Parking Assist System (IPAS)



It will calculate and generate a predicted reversing route in real time according to the vehicle movement trajectory



The system is designed based on a built-in gyroscope and an Al algorithm. You can't just rely on it for parking. You need to monitor your car's surroundings to ensure safe parking.

APPLICABLE CAR MODELS & HELP



This kit is designed for 12V & 24V DC automotive system.



The kit is designed for Passenger Cars, SUVs, Pickups and Trucks.



Please insure this product is applicable to your vehicle before installation. Otherwise, please return it to the stores with complete packaging.

Any question, please call **1 877 466 8191** for help.

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SAFETY INFORMATION

- This Reversing Camera system is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle or property. However, the driver must use it safely and properly. Use of this system is not a substitute for safe, proper and legal driving.
- Adhere to all applicable traffic laws and motor vehicle regulations applicable to the device and consult local laws and regulations for any restrictions on installation or use.
- Never allow children to play with the device. Small parts may be a choking hazard.
- ALWAYS engage Parking/Emergency/Hand Brakes of the vehicle when testing the system.
- The area displayed by the reversing camera system is limited. The system cannot display
 objects that are close to or below the bumper, underneath the vehicle, or objects out of the
 camera's field of view. The area displayed on the screen may vary according to vehicle
 orientation or road conditions.
- The colors of objects on the rear view monitor may differ somewhat from those of the actual object.
- Be sure to check the camera's position and mounting angle before each use.
- If the back of the vehicle is hit, the position and mounting angle of the Digital Backup Camera may change, and need to be readjusted.
- When washing the vehicle with high pressure water, be sure not to spray it around the camera. Otherwise, water may enter the camera unit causing water condensation on the lens, malfunction or fire.
- Do not strike the camera. It is a precision instrument. Otherwise, it may malfunction or cause damage.
- This product will only provide images of items that are within the field of view of the camera. Thus, it is imperative that the camera should be kept clean and unobstructed, and should be mounted so that its field of view includes the entire area behind your vehicle.
- There is a plastic cover over the camera. Do not scratch the cover when cleaning dirt, dust or snow from the cover.
- Do not use alcohol, petrol or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a clean cloth dampened with mild cleaner diluted with water and then wipe with a dry cloth.
- The camera has a water resistant construction. Do not detach, disassemble or modify it. This may cause incorrect operation. Camera is waterproof.
- Do not submerge camera in water, which can cause internal damage to the camera.
- Never back up while looking only at the screen. You should always check behind and around
 the vehicle when reversing. Always make sure your intended path is clear. If you back up
 while looking only at the monitor, you may hit a vehicle, pedestrian, child, pet, or other object
 resulting in damage, injury or death. Always reverse slowly.

SAFETY INFORMATION

- Never depend on the reversing system entirely when reversing up. Objects viewed in the
 rear view monitor differ from actual distance because the wide-angle lens is used. Use the
 inside mirror or glance over your shoulder to properly judge distances to other objects.
- Make sure the trunk, hatch, or backdoor is completely and securely closed when reversing.
- If the temperature changes rapidly, such as when hot water is poured on the vehicle in cold weather, the system may not operate normally. The Digital Camera can withstand the effects of rain, snow, and inclement weather.
- When strong light directly enters the camera or screen, objects may not be displayed clearly.
- · The screen may flicker under fluorescent light.

Safety Around and Behind Other Vehicles

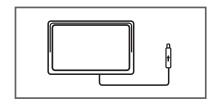
- Using a Backup Camera is not enough to completely overcome a vehicle's blind spot. Many
 preventable injuries and deaths occur in driveways or parking lots when drivers do not see
 children, pets, or others near their vehicles. Here are a few safety tips that will help you to
 avoid a back-over accident.
- Walk completely around your vehicle before getting in. Check for kids, toys, and pets before
 entering the vehicle and starting the engine.
- Know where children are. Have children stand in a place where they are in full view.
- Be aware of young children. Young children are small and hard to see.
- Parents, caregivers and all adults need to be vigilant in supervising children, especially when children are in the yard, driveway or parking lot playing near parked cars.
- · Roll down your window so you will be able to hear what is happening outside your vehicle.
- Owners of SUVs, trucks, and vans need to take extra care to avoid hitting or running over a child.
- Teach children to move away from a vehicle whenever it is started.



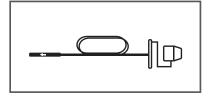
A failure to read, understand and follow these warnings and instructions may result in a serious accident, including damaged property or a serious injury, including loss of life.

PACKAGE CONTENTS

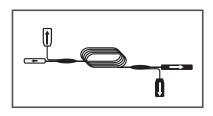
Please check all the components listed below are in the kit



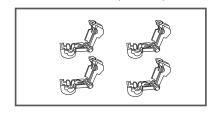
Part A
1 x 5" Monitor



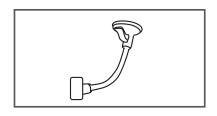
Part B
1 x Camera with Mounting
Bracket and 3m (9.84 Ft) Cable



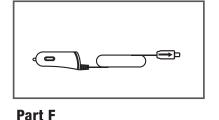
Part C
1 x 15m (49.2Ft) Main Cable with Quick Connectors



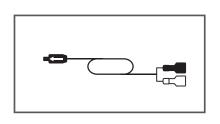
Part D
2 x Pairs of Quick Connectors



Part E1 x Suction Cup Mount



1 x 2m (6.6ft) 12V Cigarette Lighter Power Cable



1 x 0.8m (2.6ft) Reversing Light Cable

Part G

PRODUCT SPECIFICATION

5-inch Color TFT LCD Monitor	•
Operation Voltage	DC9~24V
Resolution	800(RGB)x480
Power Consumption	< 5 W
Operating Temperature	-20 ~ +70°C

Camera	
High Definition Color AHD	
TV System	NTSC
Resolution	720P
Lens Angle (Approx.)	170° (Diagonal Angle) 105° (Horizontal Anglel)
Power Supply	12V DC & 24V DC
Operating Temperature	-20 ~ +70°C
Waterproof	IP68
Camera Cable	3 m (9.8 feet)

Extension Power Cable	
Main Cable	15 m (49.2 feet)
* Total Reach	18 m (59 feet)

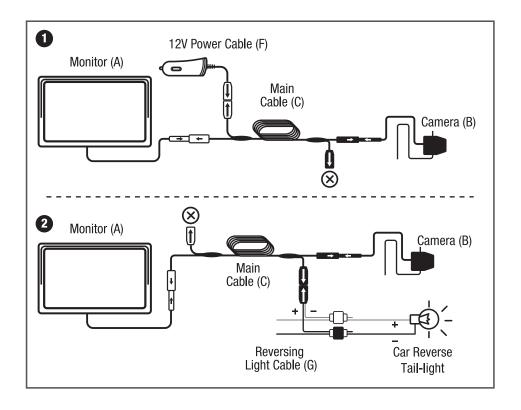
INSTALLATION - BRIEF

2-WAY POWER CONNECTION

This reversing camera system provides 2 power connection methods, which is convenient for you to install according to your own needs.

One is to get power through the 12V cigarette lighter. The advantage of this is that you don't need to find the reversing light wire of the car to connect to the camera. As long as the power is turned on, the display is always on, the camera is always working, and you can see a live image of the rear of the car at any time. Of course, we put a switch on the wire so you can turn the backup camera system on and off at any time.

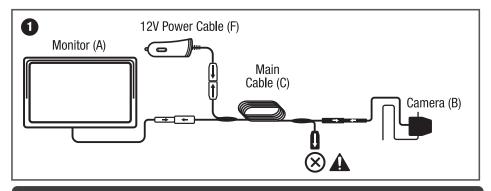
If you want the backup camera system to automatically turn on only when reversing, you need to use the second power connection method, which is to connect the system to your car's backup light wire. We offer patented designed quick connectors to make this job easier and faster. Of course, you no longer need to connect a 12V cigarette lighter.



INSTALLATION - BRIEF



- During installation you may be required to remove interior panels to run
 the camera cable from outside to inside the trunk. Panels and the
 retaining methods vary from vehicle to vehicle, and are too varied to be
 covered in this document. However, most panels are either secured with
 screws or spring loaded retaining clips and can be unscrewed or
 carefully removed by levering. Care should be taken in removing panels
 to make sure the panel won't distort or break.
- A set of pliers, a flat screwdriver and a screwdriver or spanner, to remove the license plate are required during the installation.
- A power drill might be required for drilling a small hole for routing the camera cable.

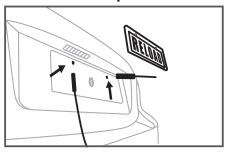


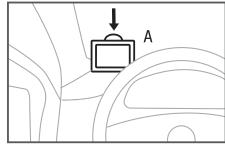
A

IMPORTANT!!!

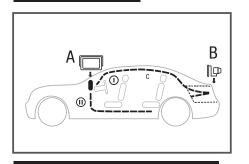
This wiring method does not require the use of the Reversing Light Cable (G) to connect the vehicle's reversing light. If connected, it may cause unexpected circuit problems and cause damage to this product or your vehicle's circuits or components.

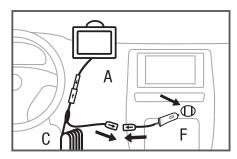
There are four steps to install the backup camera





2. Install Monitor (A).





4. Connect 12V Power Supply

Step 1: Install Camera (B)

Step 1.1: Remove your license plate and check whether there is a hole that allows the camera cable to go through. Please see the above two positions that possibly exist in many cars.

Step 1.2: Remove part of the interior panel of the trunk to ensure the hole you find (in the last step) allows the camera wire to go through from outside to inside of the trunk.

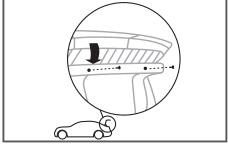


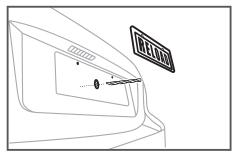
Most panels are either secured with screws or spring loaded retaining clips.



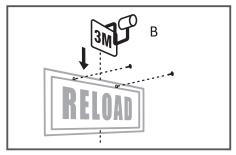
Please consult your car manufacturer or professional if you don't know how to remove it.

Step 1.3: If you can't find a hole for the Camera Cable, you need to drill a hole behind or around the license plate.





Step 1.4: Mount the Camera (B) on the license plate. We suggest mounting the camera on the top-middle of the license plate.



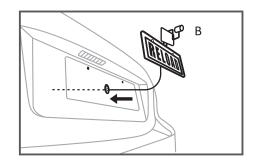
Step 1.5: Run the Camera (B) cable inside the trunk through the hole drilled or found in previous steps. Then position the license plate back onto the trunk.



Please clean your license plate before mounting the camera with the double sided tape.

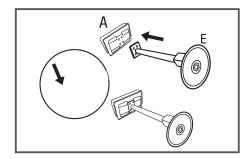


Before drilling a hole, please ensure there is no obstacle behind the position you decide and the camera cable can go through without getting blocked.



Step 2: Install Monitor (A)

Step 2.1: Attach the Suction Cup Mount (E) with the Monitor (A) and ensure the connection is secure.



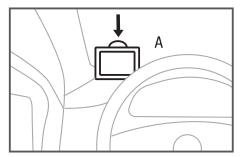
Step 2.2: Find your preferred position to mount the Monitor (A) on the windshield of the vehicle with provided suction cup mount.



Make sure the mounting area is clean and grease free.

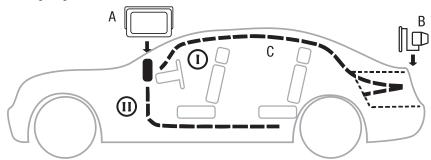


Please ensure it does not impede the vision of the driver while driving, but can be clearly seen when reversing.



Step 3: Running the Main Cable (C) from the Monitor (A) to the Camera (B).

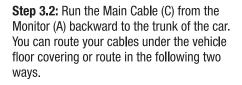
See wiring diagram below for an overview.



Step 3.1: Locate the "for Monitor" (colored red) end of the Main Cable (C) and connect with the Monitor (A) cable plug. Please ensure the connection is firm.

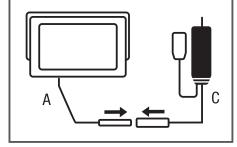


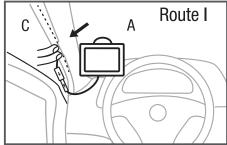
Please note that the monitor cable plug has a locater and must be in-line with the locater on the Main Cable (C).

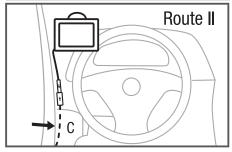


Route I - Conceal the cable behind the rubber seal of the doors of your vehicle until you reach the rear seat.

Route II - Conceal the cable under the edge of the plastic strip that holds the floor covering in place until you reach the rear seat.



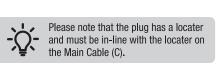


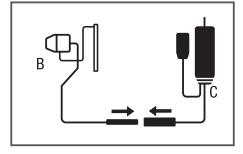


Step 3.3: Run the Main Cable (C) to the trunk of your car. For many cars, the rear seat can be folded and the cable can go through easily. For other cars, you can push the cable around the bottom corner of the rear seat. Then push it over the edge of the panel and get it into the trunk.

C

Step 3.4: Locate the "for camera" end (colored black) of the Main Cable (C) and plug the Camera (B) cable into this socket. Please ensure the connection is firm.



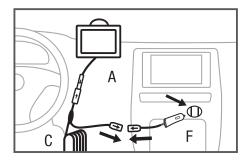


Step 4: Connect 12V Power Supply

After connecting the 12V Power Cable (F) to the monitor side (red port) of the Main Cable (C), insert it into the 12V cigarette lighter socket in the car to obtain power.



A switch is built into the 12V Cigarette Lighter Power Cable (F) that comes with the system. This switch is turned on by default, so that as soon as your vehicle starts, the backup camera system can be turned on automatically. You can easily turn on/off the backup camera system at any time by pressing this switch.



Now all the wire connections are complete and you are ready to test your backup camera.

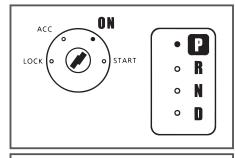
Step 5: Testing & Adjustment

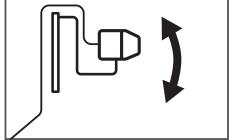
Step 5.1: Put your car's ignition switch in the "ON" position, this should allow the 12V socket in the car to output power. Then press the built-in ON/OFF switch on the cable near the monitor to turn on the backup camera system. The display will immediately show a live image of the rear of your vehicle.

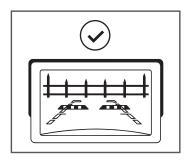
Step 5.2: Please make sure you have the best view you desire. You can bend the Camera (B) bracket gently to achieve that.

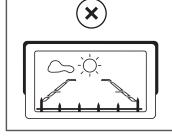


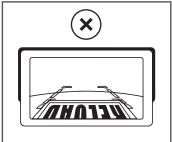
You don't have to bend the bracket much to see a big change on the Monitor (A).

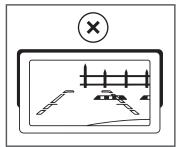












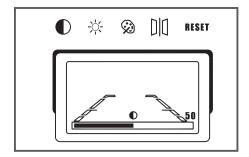
Step 5.3: Organize your wires and tidy up When testing is done and the camera system is functioning correctly, please put all the interior and trunk panels back into position, and conceal any surplus cables.

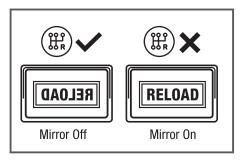
Step 5.4: The camera can be adjusted for Brightness, Contrast, Saturation, Mirror and RESET. You can press "M" to select the function you want and press "+" or "-" to adjust the image effect you prefer. These 3 buttons are located at the back of the Monitor (A).



By default, the "mirror effect" is turned off. At this time, the positions of various objects appearing on the screen are consistent with the actual road conditions, which can be used as assistance when you reverse the car.

When the mirror effect is turned on, the relative positions of various objects on the screen will be rotated 180 degrees horizontally, just like when you turn your head and look at the objects behind the vehicle.

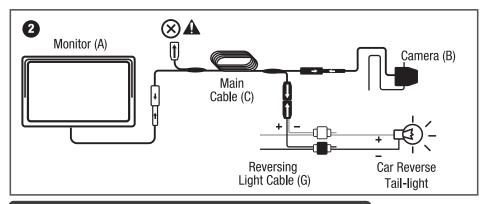






It is prohibited to use the screen display with "mirror mode" turned on to assist you in reversing.

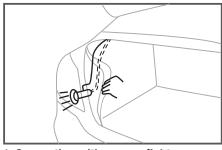
Congratulations on the successful installation of your backup camera!



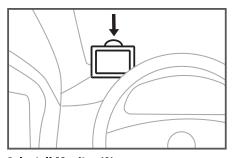


This wiring method does not require a 12V Power Cable (F) to connect to the 12V cigarette lighter socket in the car.

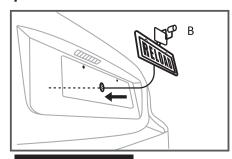
There are four steps to install the backup camera

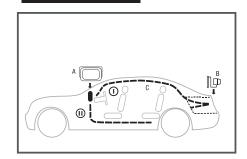


1. Connection with reverse light.



3. Install Monitor (A).





Step 1: Connection with reverse light

Step 1.1: Locate your reverse light by shifting the gear to reverse position while turning the car ignition switch to "ON" position.

Step 1.2: Remove the tail-light cover to access the reverse light. Locate the wiring behind the reverse light. You may wish to remove the reverse light bulb holder by carefully twisting while pulling, then check that the removed bulb glows. Now locate the positive and negative wires to this bulb, a test

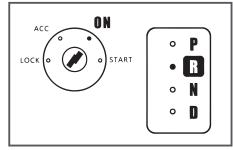


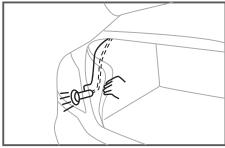
If you are not sure of the power wires, please contact your vehicle manufacturer or reference a wiring diagram in your vehicle manual.

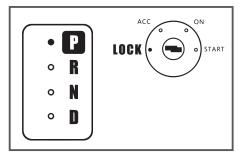
Step 1.3: Shift the gear to "P" position and turn the car ignition switch to "Lock" position.

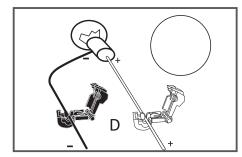
light or voltmeter may be used.

Step 1.4: Attach the wire Quick Connectors (D) to the reverse light positive wire and negative wire separately. Ensure the wire sits well in the metal slot of the connector. Snap the cap of the connector over and use a clamp to squeeze the cap to ensure solid connection.

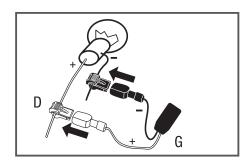






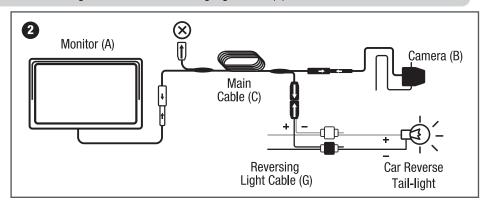


Step 1.5: Connect the Quick Connectors (D)(female end) of the Reversing Light Cable (G) to the Quick Connectors (D) on the vehicle's reverse light wire. Ensure positive wire connect with positive wire and negative wire with negative wire.



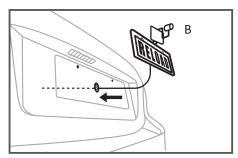


Before starting the next step, we recommend that you connect the Camera (B) and Monitor (A) via the Main Cable (C) and the Reversing Light Cable (G). Please refer to the illustration below. If connected correctly, the Monitor (A) should clearly show a live image when you turn the vehicle's ignition switch to "ON" and shift to "R". Then you can move on to the next step. Otherwise, go back to Step 1 to check the connection between the vehicle's reversing light wire and the Reversing Light Cable (G).



Step 2: Install Camera (B)

Step 2.1: Remove your license plate and check whether there is a hole that allows the camera cable to go through. Please see the above two positions that possibly exist in many cars.



Step 2.2: Remove part of the interior panel of the trunk to ensure the hole you find (in the last step) allows the camera wire to go through from outside to inside of the trunk.

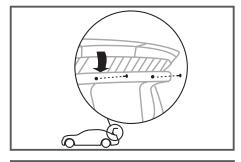


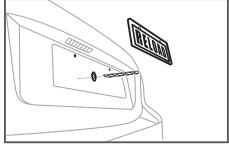
Most panels are either secured with screws or spring loaded retaining clips.



Please consult your car manufacturer or professional if you don't know how to remove it.

Step 2.3: If you can't find a hole for the Camera Cable, you need to drill a hole behind or around the license plate.





Step 2.4: Mount the Camera (B) on the license plate. We suggest mounting the camera on the top-middle of the license plate.

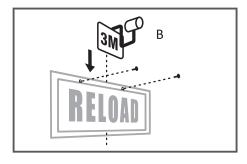


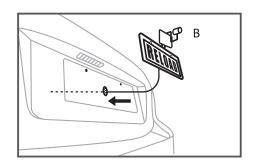
Please clean your license plate before mounting the camera with the double sided tape.



Before drilling a hole, please ensure there is no obstacle behind the position you decide and the camera cable can go through without getting blocked.

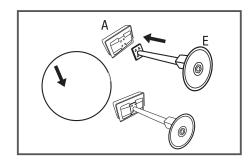
Step 2.5: Run the Camera (B) cable inside the trunk through the hole drilled or found in previous steps. Then position the license plate back onto the trunk.





Step 3: Install Monitor (A)

Step 3.1: Attach the Suction Cup Mount (E) with the Monitor (A) and ensure the connection is secure.



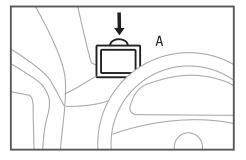
Step 3.2: Find your preferred position to mount the Monitor (A) on the windshield of the vehicle with provided suction cup mount.



Make sure the mounting area is clean and grease free.

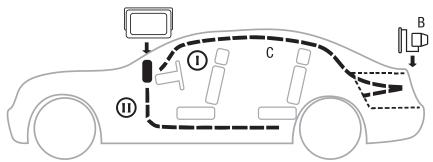


Please ensure it does not impede the vision of the driver while driving, but can be clearly seen when reversing.



Step 4: Running the Main Cable (C) from the Monitor (A) to the Camera (B).

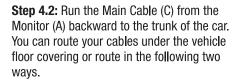
See wiring diagram below for an overview.



Step 4.1: Locate the "for Monitor" (colored red) end of the Main Cable (C) and connect with the Monitor (A) cable plug. Please ensure the connection is firm.

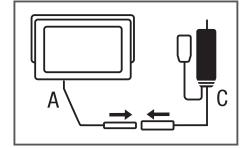


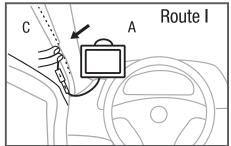
Please note that the monitor cable plug has a locater and must be in-line with the locater on the Main Cable (C).

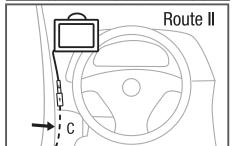


Route I - Conceal the cable behind the rubber seal of the doors of your vehicle until you reach the rear seat.

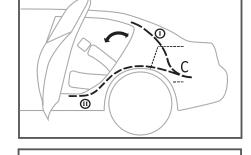
Route II - Conceal the cable under the edge of the plastic strip that holds the floor covering in place until you reach the rear seat.



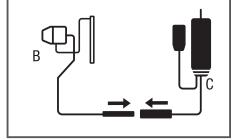


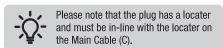


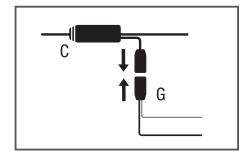
Step 4.3: Run the Main Cable (C) to the trunk of your car. For many cars, the rear seat can be folded and the cable can go through easily. For other cars, you can push the cable around the bottom corner of the rear seat. Then push it over the edge of the panel and get it into the trunk.



Step 4.4: Locate the "for camera" end (colored black) of the Main Cable (C) and plug the Camera (B) cable into this socket. Please ensure the connection is firm.





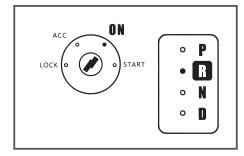


Step 4.5: Connect the Reversing Light Cable (G) that has been connected to the vehicle's reversing light wire to the Main Cable (C).

Now all the wire connections are complete and you are ready to test your backup camera.

Step 5: Testing & Adjustment

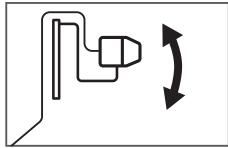
Step 5.1: Have your car ignition switch to "ON" position, then shift the gear to reverse position, the monitor and the camera will be powered by the reverse light and the back-view image will appear on the monitor automatically until the gear is changed.

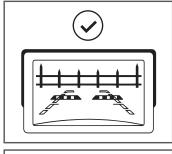


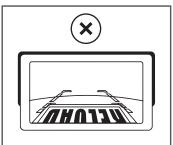
Step 5.2: Please make sure you have the best view you desire. You can bend the Camera (B) bracket gently to achieve that.

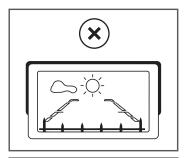


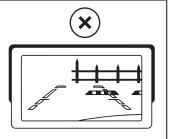
You don't have to bend the bracket much to see a big change on the Monitor (A).











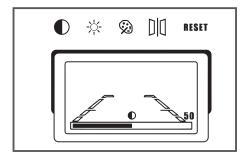
Step 5.3: Organize your wires and tidy up When testing is done and the camera system is functioning correctly, please put all the interior and trunk panels back into position, and conceal any surplus cables.

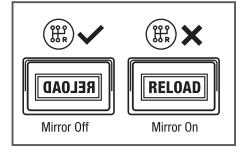
Step 5.4: The camera can be adjusted for Brightness, Contrast, Saturation, Mirror and RESET. You can press "M" to select the function you want and press "+" or "-" to adjust the image effect you prefer. These 3 buttons are located at the back of the Monitor (A).



By default, the "mirror effect" is turned off. At this time, the positions of various objects appearing on the screen are consistent with the actual road conditions, which can be used as assistance when you reverse the car.

When the mirror effect is turned on, the relative positions of various objects on the screen will be rotated 180 degrees horizontally, just like when you turn your head and look at the objects behind the vehicle.







It is prohibited to use the screen display with "mirror mode" turned on to assist you in reversing.

Congratulations on the successful installation of your backup camera!

TROUBLE SHOOTING

Phenomenon	Diagnose	Solution
	Check whether the gear is in reverse position.	Shift the gear to reverse position.
	Check that the reverse lights work.	Have reverse lights repaired.
The back-up	Check whether the wiring connections with the reverse light are secure.	Please use the plier to ensure connection is secure.
image doesn't appear	Check whether the positive wire and negative wire are connected reversed between power wire and reverse light.	Please connect the wires correctly.
	Check both ends of the main cable (between camera & monitor) are connected correctly.	Unplug & reconnect.
The back-up image is not clear	Check the camera whether there are stains on it.	Clean the camera with soft cloth.
	Check whether the monitor display is not at the best settings.	Adjust the monitor setting.

MAINTENANCE

Camera

- If dirt, rain or snow attaches to the camera, the monitor may not clearly display objects. If water droplets, snow or mud adhere to the camera lens, rinse with water and wipe with a dry cloth.
- Do not use alcohol, benzene or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a clean cloth dampened with mild cleaner diluted with water and then wipe with a dry cloth.

Monitor

- Turn off the monitor. If the screen is dark, it will be easier to see the areas that are dirty or oily.
- Use a dry, soft cloth and very gently wipe the screen.
- If the dry cloth did not completely remove the dirt or oil, do not press harder in an attempt to scrub it off. Pushing directly on the LCD screen can often cause pixels to burn out.
- If necessary, dampen the cloth with distilled water or with an equal ratio of distilled water
 to white vinegar. The plastic edge that surrounds the screen can be cleaned with any
 multipurpose cleaner but take care to avoid contact with the screen itself.
- Avoid using paper towels, toilet paper, tissue paper, or something like your shirt to wipe the LCD screen. These non-ultrasoft materials can easily scratch the screen.
- Avoid cleaning products that contain ammonia, ethyl alcohol, acetone, toluene, ethyl acid, or methyl chloride. These chemicals can react with the materials that the LCD screen is made of which could yellow the screen or cause other kinds of damage.
- Never spray liquid directly on the LCD screen or it could run inside the monitor and cause damage.

Always keep your receipt as proof of purchase!



We're here to help! You are covered with one year manufacturer's warranty against defects in workmanship and materials. If you have any questions or comments call our toll-free hotline:

1 877 466 8191 for help.