

RAC

Wireless Reverse Parking Camera

RAC-HP102

This product bears the selective sorting symbol for waste electrical and electronic equipment (WEEE).

This means that this product must be handled pursuant to European Directive 2002/96/EC in order to be recycled or dismantled to minimize its impact on the environment.

For further information, please contact your local or regional authorities.

Electronic products not included in the selective sorting process are potentially dangerous for the environment and human health due to the presence of hazardous substances.

If faults cannot be remedied, contact the **Helpline** on **020 8391 6767**
helpline@hilka.co.uk

GUARANTEE

This product is guaranteed for domestic use for a period of 12 months against faulty manufacture or materials. This guarantee does not affect the statutory rights of the consumer. In the event of any problem occurring please contact our Helpline at the number above for advice. This product is not guaranteed for **HIRE** purpose.

Manufactured under license for

HILKA PRO IMPORTS

1 ROEBUCK PLACE, ROEBUCK ROAD, CHESSINGTON, SURREY KT9 1EU

RAC-HP102 - Issue 1 - R.W. 07-05-08



E8
02 07227

Environmental Protection



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.

Wireless Reverse Parking Camera and Monitor

Safety Instructions

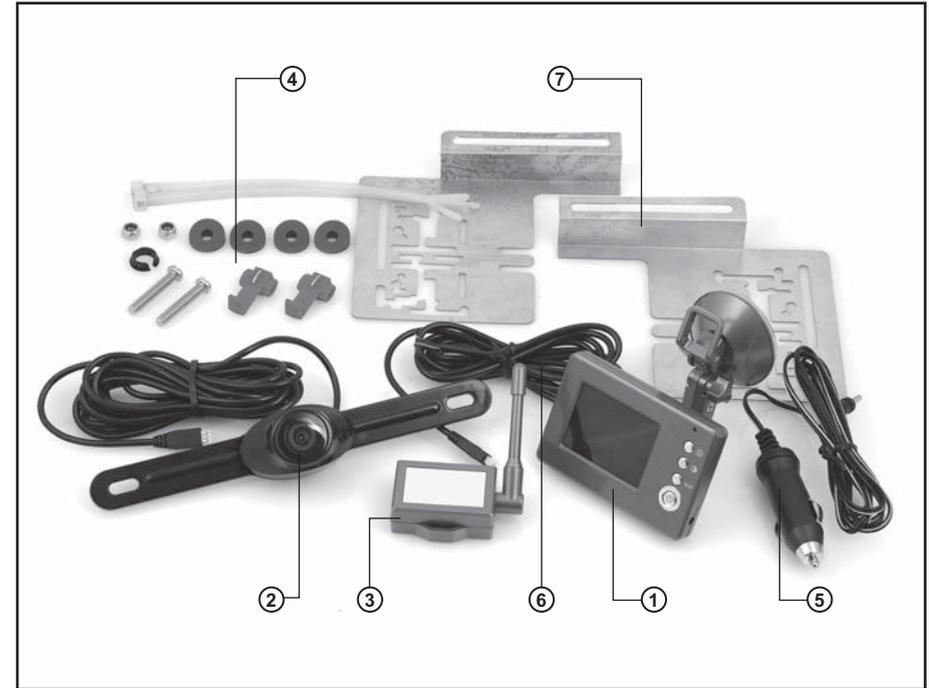
Automotive video equipment installations can be difficult at times, even to the most experienced of installation technicians. If you are not confident working with 12 volt DC vehicle wiring, removing and reinstalling interior panels, carpeting, dashboards or other components of your vehicle, contact the vehicle's manufacturer, or consider having the unit professionally installed (ie by a local garage).



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.

Components

1. Monitor and mounting Arm
2. Camera
3. Transmitter Box
4. Camera Mounting Accessories
5. Monitor Power Cable
6. Transmitter Box Power Cable
7. Camera Mounting Brackets



Installation

These instructions do not apply to all vehicles. They are only meant as a general guide due to the number of different makes & models.

For vehicle specific questions contact your vehicle's manufacturer.

MONITOR INSTALLATION

When choosing a location to mount the monitor, make sure the monitor is in an area that will not obstruct your vision while driving.

Choose a Location and Install Power Cable

1. Temporarily place the monitor in the location that you have chosen
2. Route the power cable to the vehicle's cigarette lighter socket/12V power outlet. The cable must not interfere with the safe operation of the vehicle.

Mounting the Monitor

Before mounting the monitor, clean the mounting surface well.

1. Position the suction mount to the smooth surface which suits your requirements (Fig 1).
2. Press the suction cap against the smooth surface such as windshield or dashboard.
3. Press the lock down to attach and fix the mount to the surface (Fig 2).
4. Attach the monitor to the suction mount.
5. Adjust the mounting arms to suit your view angle to the monitor and tighten the screws on the mount to fix the position.

NOTE: To maximize the effectiveness of the suction mount, it is recommended that the application be performed under the following conditions: Surface temperature should be between 21°C and 38°C (70°F and 100°F). Application below 10°C (50°F) should be avoided. Application should not be performed in direct sunlight.

Mounting should be protected from exposure to direct sunlight for a period of 24 hours.

MONITOR POWER CONNECTION

Power Cable with 12 Volt Cigarette Lighter Adaptor

1. Insert the small 12 Volt DC plug of the power cable into the left side of the monitor.
2. Plug the 12 Volt cigarette lighter adaptor into the vehicle's cigarette lighter socket.
3. Press the ON/OFF button to turn the monitor ON.

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.



Fig.1

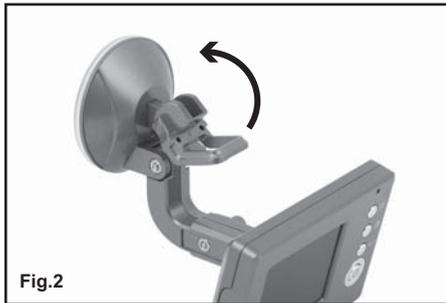


Fig.2

Camera Installation

We suggest that you mount the camera using the mounting brackets supplied. Make sure that the camera's field of view is not obstructed and that the camera does not obstruct the registration mark on your number plate:

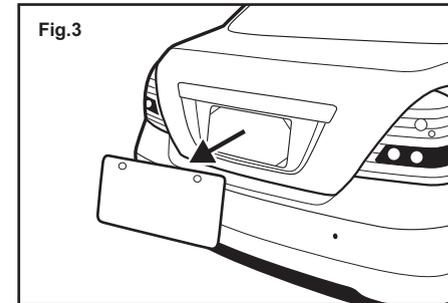


Fig.3

1. Unscrew the rear number plate.

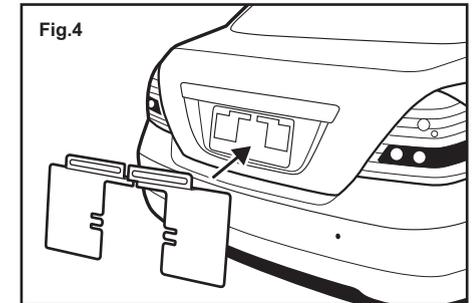


Fig.4

2. Place the supplied mounting brackets behind the number plate as required. Secure the number plate and the mounting brackets with the original number plate screws.

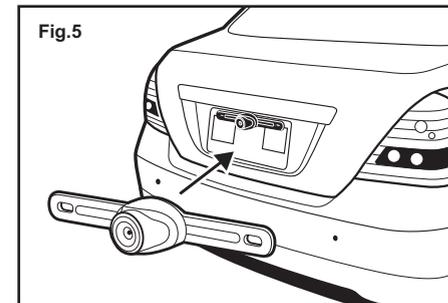


Fig.5

3. Position the camera in the desired position on the mounting brackets and secure with the screws provided.

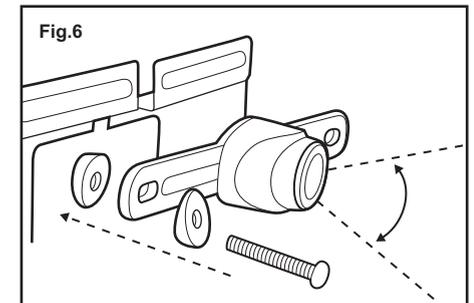


Fig.6

4. If required, angle the camera down using the wedges supplied as shown (Fig 6).
5. Choose a route for the camera's cable through the vehicle body and into the boot. If in doubt seek professional installation assistance.
6. Some vehicles may already have a hole to pass the wire through. Alternatively you can drill a hole. If you are able to use an existing hole or opening skip to step 9.
7. If you are going to drill a hole, choose a location as close to the camera cable as possible. Before drilling a hole you **MUST CHECK WHAT IS BEHIND THE DRILLING LOCATION**. If there are any vehicle components, electrical parts or fuel system components behind the drilling location you must take precautions not to damage them. Remove the number plate and camera before drilling.

WARNINGS

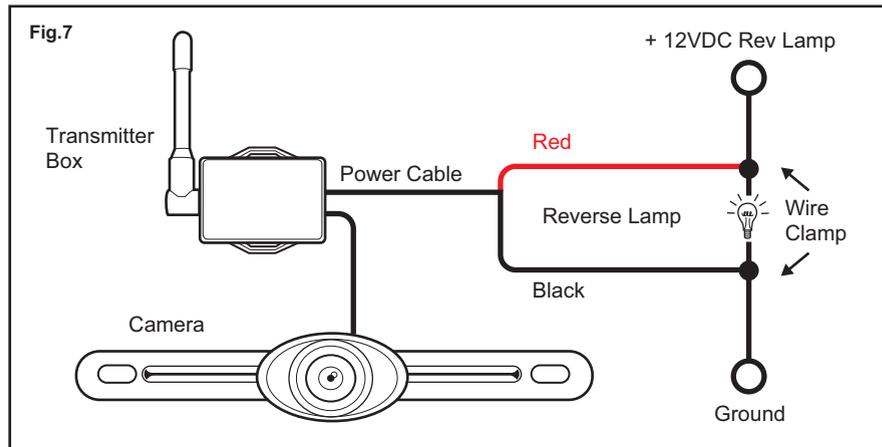
Use all necessary safety equipment and precautions when using a drill.

Ensure any exposed metal is coated after drilling to prevent rusting.

Hilka Pro Imports cannot be held responsible for any damage caused by installation of this equipment.

If in doubt seek professional installation assistance.

- After you have drilled a half inch (1/2") hole, carefully feed the camera cable through the hole and into the boot area. Place the grommet supplied in the hole around the camera cable. You must use the grommet to prevent the metal edge of the hole from cutting the camera cable.
Note: When the installation is complete this hole can be filled with silicon sealant (not provided) to make waterproof.
- Connect the camera cable and the power cable to the transmitter box. Mount the transmitter box inside the boot area using one of the cable ties provided.
- Route the power cable from the transmitter box to the rear of the light cluster where the reverse light is situated. Fasten the power cable securely to prevent it from being damaged on any vehicle components such as the boot hinge. Never route this cable on the outside of the vehicle.
- Locate reverse light socket and remove light bulb. There are two wires connected to the reverse light sockets on most vehicles. Usually the negative wire is black and the positive wire is red. If you are uncertain about the wiring, use a 12 volt multimeter to determine which wire is positive. Follow the manufacturer's instructions for the safe use of the multimeter.
- After determining which wire is the positive and which is the negative, turn off the ignition and remove the keys.

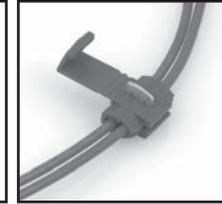


- Splice the red wire of the power cable to the reverse light's positive (+) wire (see SPLICING INSTRUCTIONS), using the wire clamps provided. Use a set of pliers to squeeze the metal blade and ensure a good connection.

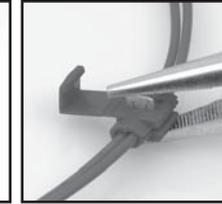
SPLICING INSTRUCTIONS



Insert the reverse light positive wire into the clamp



Insert the power cable positive wire into the clamp



Crimp clamp with pliers, pushing down the metal blade



Finally, push clamp cover to lock position

- Next splice the black wire of the power cable to the reverse light's negative (-) wire or ground
- Replace the reverse light bulb and re-install the light socket. Secure all the wires with the cable ties provided.

TESTING THE SYSTEM

- Turn the ignition key to the accessory position, do not start the vehicle.
- Engage the handbrake, then put car into reverse gear.
- Turn the monitor ON by pressing the ON/OFF button on the monitor.
- Look at the monitor, if the image does not match your rear view mirror press the Image Orientation button (Fig 8) on the monitor to correct the image.

After testing the unit and you are satisfied with the route you have chosen for the cabling, you must permanently install it.

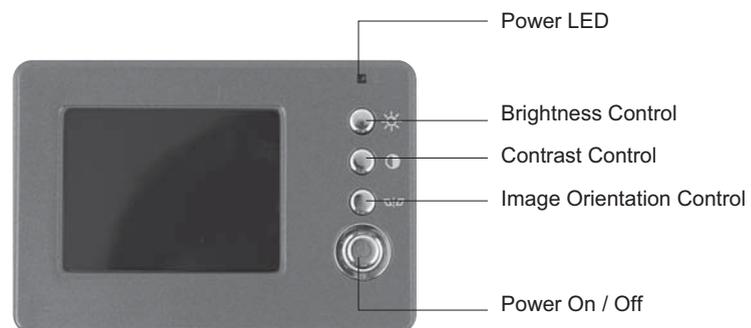
Fully tighten the license plate bolts.

Route all wires behind interior panels or under carpeting so they are hidden.

Use supplied cable ties to neatly gather any excess wire.

Monitor Controls

Fig.8



The monitor will automatically turn ON when the vehicle is in reverse gear. Also, there are 4 control buttons.

Power Button

Press the Power button to turn the display ON, the Power LED will be lit to indicate the monitor is ON. Press it again to turn the display OFF, the Power LED will turn off.

Contrast

There are 13 levels of contrast. To adjust the the contrast press the Contrast Control button.

Brightness

There are 13 levels of brightness. To adjust the brightness press the Brightness Control button.

Image Orientaion

To flip the displayed image as preffered press the Image Orientation button.

NOTE: UNDER EXTREME BRIGHT LIGHT CONDITIONS THE SCREEN IMAGE MAY TAKE A FEW SECONDS TO STABILISE. PLEASE WAIT UNTIL THE IMAGE HAS STABILISED BEFORE REVERSING