

Disclaimer

Images and information in this document are to be used as a reference only. This manual is a installation guide only and all installations should be taken place by a professional qualified technician. Carbon Car Systems takes no responsibility for the actions taken by an individual or damage cause to a vehicle.

This is a guide only.

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Installation Service

Carbon Car Systems also offers premium installation service for this kit for only \$200 inc GST. All our staff are trained and qualified technicians.

Warranty Information

This reverse camera kit will not interfere with factory warranty.



This is the location of the factory camera. There is actually a slight outline of the location if you look carefully.



Seven plastic clips need to be taken out so cover can be removed locations shown



Use a plastic non-marring pry bar to remove clips so as not to cause damage.



Remove 5x 8mm nuts from the inside of the boot lid. Requires ratchet and socket.

Be careful not to drop the nuts into the boot lid as they will not be easy to remove and will rattle if not removed



Closer view of the bolts that require removal.



Remove the boot key barrel from inside of lid. Secure this careful so as not to scratch the boot lid.



Unplug the boot release button cable.



Remove rear number plate light cover, make sure you do this carefully so as not to scratch the boot lid!! This will require a little bit of force to release a tension clip holding the panel in place.



Remove grommets for to run cables for camera through to inside of vehicle.



Cable will run through to inside of the rubber boot along side factory cables.
Use of lubricant will help run the cable through the rubber boot.



Place provided double sided tape for camera in middle of factory location.
Drill hole through the middle of tape. Remove tape mount camera through
hole and secure nut to rear of the camera.



Secure cables along back of number plate light panel and route through the
factory wiring grommet for neat installation.



Run cables inside of boot lid towards rubber grommet. We have shown the approximate location the cables will follow here in the image. You may run outside boot lid skin or it is preferred that cables are run inside the skin so they are not seen.



Place split tubing around cables to give that factory look.



Route reverse camera cables behind factory boot covers, will require these two clips to be removed. Run cables behind the clips will hold them in place.



Run cable securely along door sill. Panel will need to be removed, this will take some force but use extreme care so as not to break the clips or damage the trim. Pull very close to the clip anchor points for max leverage. Cable can then be run under carpet around passenger footwell and up to behind the stereo.



Remove factory head unit by using non-marring pry bar so as not to mark dash. Location for leverage shown.



Panel will lift off very easily just be careful to remove straight so as not to mark any of the dash or break the clips.



Cover the gear stick so as not to mark any panels or the unit.



Secure cables along back of number plate light panel and route through the factory wiring grommet for neat installation.

Remove 4x 10mm bolts, locations shown, be careful not to drop the bolts into dash.



Unplug all plugs if required and remove unit. Plug in the reverse camera plug into the location shown.



Route the video signal cable up to the inside of dash. Then join the red cable from inside of the video signal cable to the red cable with two silver dots in the main power loom for the stereo pictured. Solder for secure connection and tape. We have now provided "Scotch Locks" (plastic crimp connector) so you may connect the cables without soldering. Solder is still the preferred method but a scotch lock will suffice.



Connect video signal cable to the new plug and tape together to stop the cable coming loose.



Return the unit to the dash carefully so as not to scratch anything and plug all looms in.

Job complete.

We have added some updated additional information below for assistance.

Additional Information:



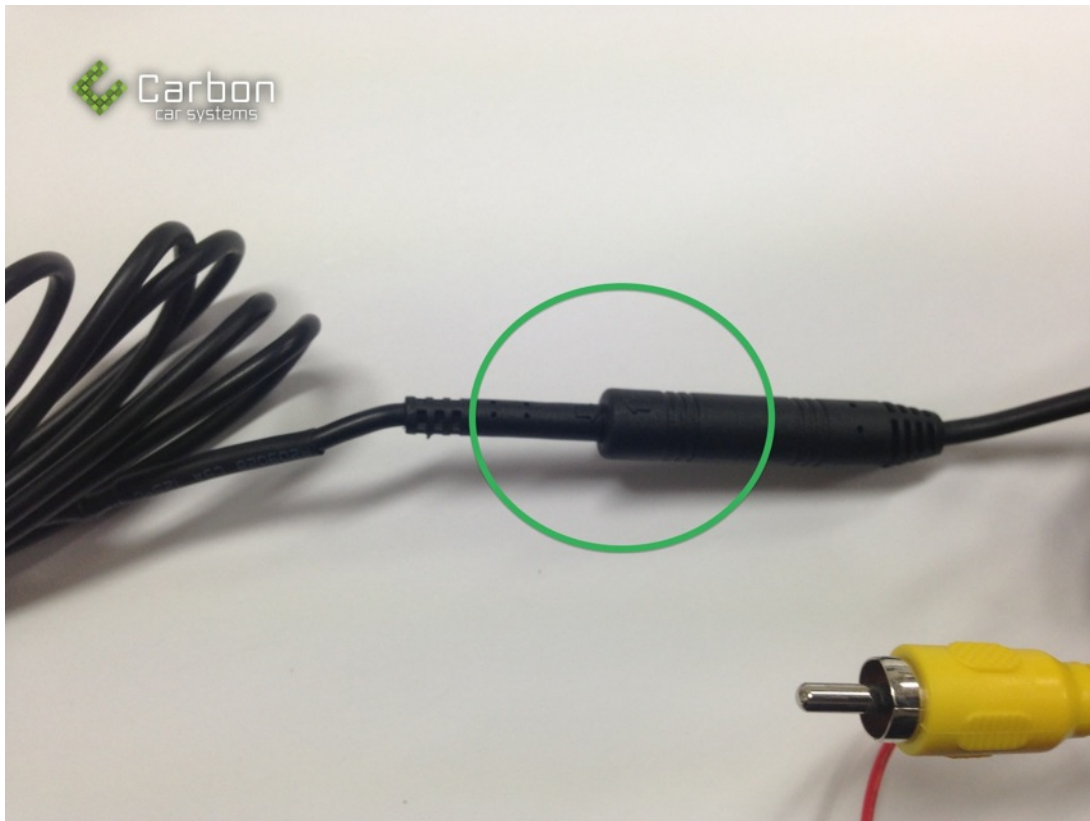
We have now included two additional camera configuration options, you will now notice two small loops on the camera loom. White and Green. They control the following options:

Camera Options:

Green - Controls the on screen guidelines, cutting the loop will remove the guidelines leaving it looped leaves guidelines on.

White - Controls the image of the screen, cutting the loop will mirror / flip the image (some people prefer this)

Please note these options are not included for every camera but are located on most. The Toyota Hilux for example we do not offer guidelines on as standard as they are more a distraction for this vehicle.



Ensure when plugging camera into the extension loom they line up correctly. There are two small arrows one on each connector. These need to line up, arrows point to one another, when plugging the connectors together.

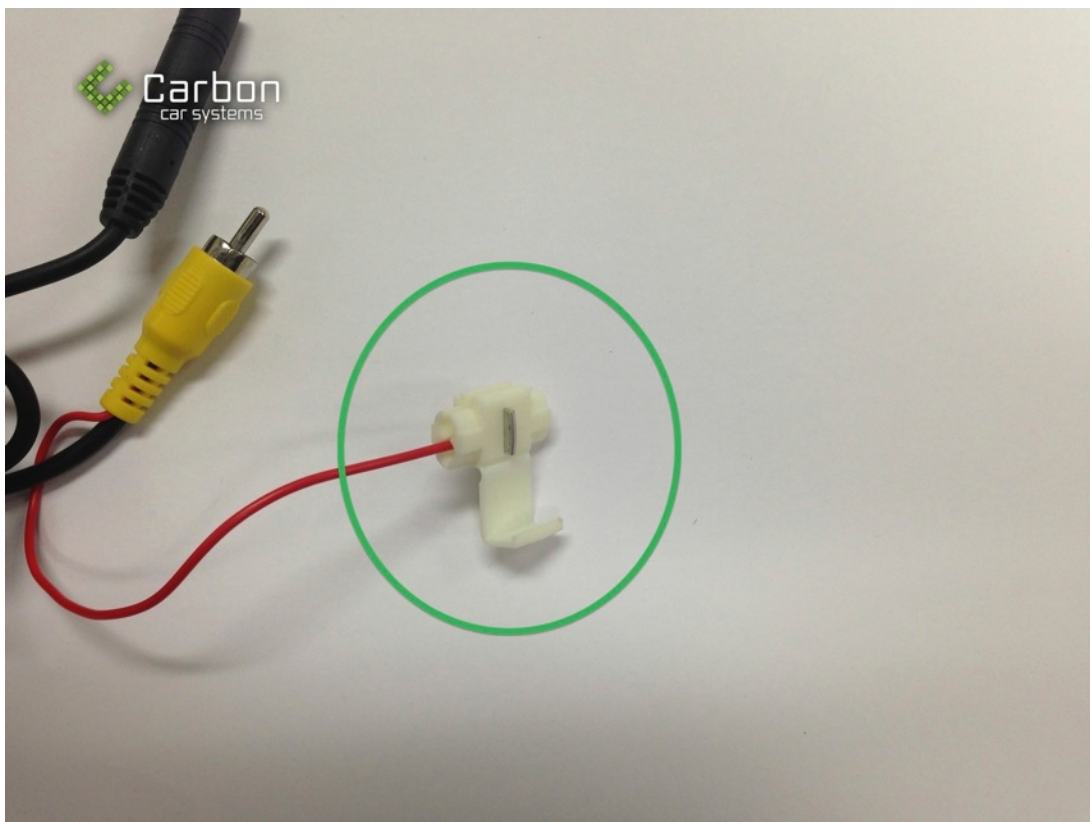


Image of scotch lock / connector. This connects the camera cable to the red power cable on the vehicle as shown earlier in tutorial. Alternative option to soldering.

Loom Descriptions



This loom is included in your vehicle if you have a 2010 model onwards and your vehicle has a factory Navigation system.

Green wire is the reverse signal wire and requires 12v + feed from the reverse lights.

Purple/White wire is the Vehicle Speed Sense wire and can be connect to the vehicles ECU not required for the reverse camera setup.

For vehicles with the factory non-navigation Toyota screen, you will need this loom in addition to the standard kit.

These can be purchased direct from Carbon Car Systems if required.

If you are putting a newer navigation screen or non navigation screen from a 2010 onwards vehicle into an vehicle that is prior to 2010 then you will require this extra loom. ie: retro-fitting an older vehicle with the new screen.



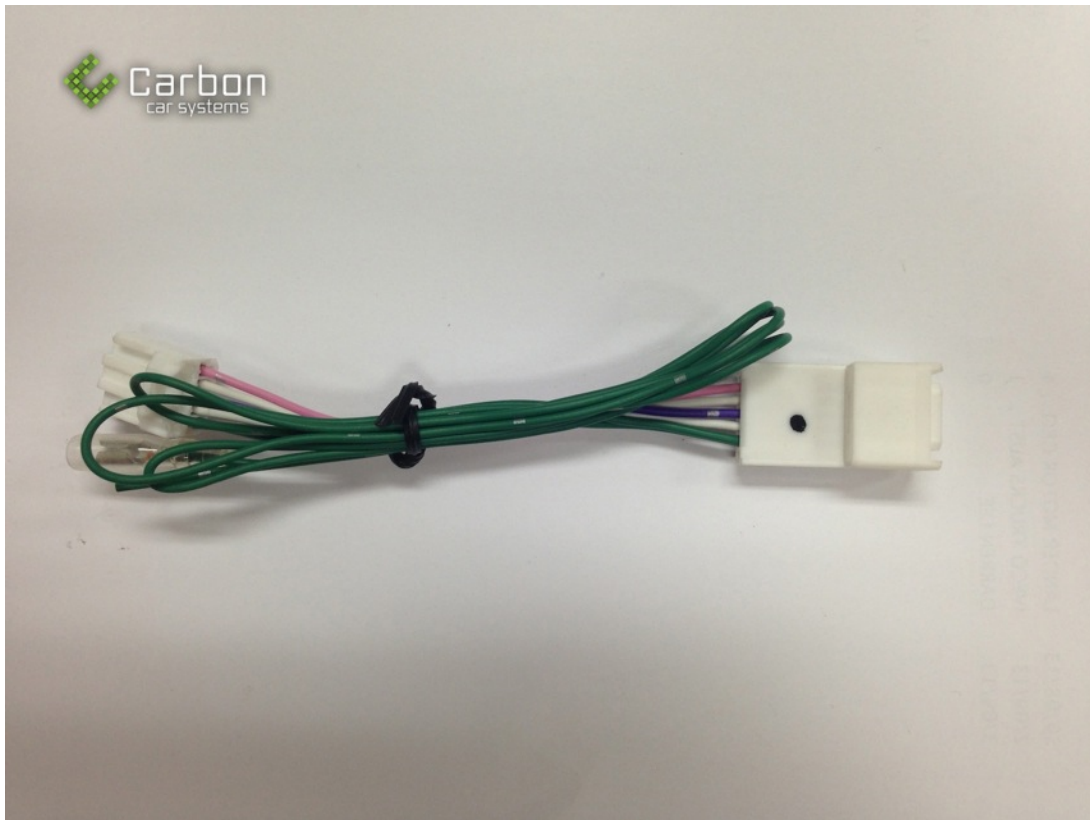
This is the camera loom require for all Toyota models to run the reverse camera. The red cable can be disregard, this is a 6v+ output wire to run the factory 6v Toyota camera which is of lower quality.

Red wire is not required with Carbon Car Systems camera kits.



This loom is included in the packages for 2010 models onwards and is sometimes required.

Green wire is the reverse signal wire and requires 12v + feed from the reverse lights.
Purple/White wire is the Vehicle Speed Sense wire and can be connect to the vehicles ECU not required for the reverse camera setup.



This loom is included in the packages for 2009 models and prior and is sometimes required. Provided with the 2009 prior kit

Green wire is the reverse signal wire and requires 12v + feed from the reverse lights.

Patch Lead Cable Colours Description

Purple / White - This wire is the vehicle speed signal output and can be used for other items in the vehicle if you require but not necessary with the reverse camera.

Green - This is a reverse signal trigger light trigger wire, this can be used to activate the camera when the vehicle is put in reverse. (typically connected to the red wire from the camera loom)

Red - This wire is the vehicle hand brake input for the stereo, used for the factory navigation to detect when the vehicle is parked so as to allow full functions of the navigation locked out features. This requires a negative ground when the vehicles handbrake is engaged.

These are the colours for our additional looms only, Toyota reserves the right to change their colour of factory looms at their own discretion and we suggest testing all wires before connect.