



# CAMERA RELOCATE INSTALLATION INSTRUCTIONS

2003-2009 Lexus GX470

Version 1.1 - 2017

Start by removing the tool kit and door handle from interior of back door.



After removing plastic pins on both side of the handle, pull down and away to remove handle from frame of door



Pop this cover off using a screwdriver:



Remove phillips head screw



Using a panel removal tool or flat head screwdriver, carefully pry up the bottom corner of the back door panel. You'll be able to hear and feel each plastic pin pulling out as you move around the edge of the door.



Once you feel as though all pins have been released, go to the top corners of the door panel and gently pull the corners from under the window trim.



At this point, the door panel should be free, if it is not, double check that all pushpins have been released and finally pull the door panel away from the door.



Gently pull the weather barrier away from the door panel to expose the wire looms.



Next, we want to remove the shiny trim piece covering the access to the two bolts holding the backup camera in place. From the backside of the door, using a flat head screwdriver, coax the small pins out as you move toward the driver's side. It is helpful to have someone gently pull the trim piece away from the door as you disengage each subsequent pin.



After removing this trim piece, you'll gain access to two small bolts holding the backup camera into place. Remove these bolts.

Disconnect the backup camera from its harness and remove the camera from its location. Remove the camera from the plastic housing so that all you are left with is the camera itself and its wires. Set the camera aside for now.



Cut the OEM wiring harness at the point indicated in the picture above. **It is important that you make this cut so that there are 4 wires and not 3.** One of those wires is a shielded cable that splits off into 2 near the electrical connector.

Once again, make sure you make the cut where there will be 4 wires on both sides of this cut. You may need to trim away some of the black protective loom.

You will basically be extending these 4 wires so that they reach the new camera location in the swing arm. The plug that is cut from the OEM harness (circled in red) will be used again at the new camera location. This allows for replacement of the camera itself by just unplugging the connector.

Poke a hole in the factory door grommet as shown.



Mark the length of harness you'll need to run the wires through the factory door grommet and to the 4 OEM wires you just cut. Use the heat shrink around the supplied wire harness. Leave approximately 8-10 inches of wire and plug hanging out of the door grommet.

Be certain to remember the specific color of wire connected to each OEM wire from the 4 wire camera setup. If these wires are not reconnected exactly as they were disconnected the camera will not function correctly. It will be beneficial to have a voltmeter handy should you come across any electrical issues. Right down the color connections you choose, you'll need it later to hook up the camera connector to the extended harness.

After you've successfully run the wires and tested the camera, you can begin installing the camera onto your tire carrier. Begin by placing the back plate onto your tire carrier and feed the camera and plug through the large hole in the center of the back plate.



Sandwich the camera between the back plate and the adapter plate



Tighten the provided ¼" button head bolts and nuts so that the camera is snug.



You'll also notice that the camera back plate has been cut so that you can easily bend the camera into the position that best suits your install. This will help keep the camera focused directly behind you instead of off into the distance.



Verify that the picture is clear. You can adjust the angle of the camera at any time, however it was not designed for constant adjustment. The metal may fatigue and snap if adjusted up and down too many times.

