GX 460 Assassin front bumper installation guide

Tools needed:

10, 14, 17, 19mm and 9/16” wrenches and sockets. Flat blade and Philips screw driver, die grinder with cut off wheel or air saw to cut plastic bumper cover. Dry erase marker, tape measure, masking tape and someone to help lift bumper into place and install hardware.

1) Start by removing the plastic bumper cover from the vehicle. There are multiple screws around the front of the fender well and along the bottom of the bumper cover that need to be removed. Use a 10mm socket or wrench to remove them.
Also remove the plastic clips holding the plastic skid/filler plate in position. Remove filler plate from vehicle, it will not be reused.

Open the hood of the vehicle, locate and remove all of the screws and plastic clips holding the top of the bumper onto the radiator support. The plastic grille will come off with the bumper cover as one piece. Use the 10mm socket for the screws and use the flat blade screwdriver for the plastic clips.
Also be sure to unplug the front parking camera if equipped.
Reach up from under the bumper cover and disconnect the fog light connectors and the headlight washer hose if equipped.
The fog lights are a black connector like this:
There is also a large grey connector on the driver side behind the bumper cover that needs to be disconnected.

The headlight washer bottle is located on the passenger side behind the fog light area. The plastic connector needs to be squeezed and pulled apart to disconnect the hose.
Now the bumper cover is ready to be removed from the vehicle.

2) Start where the plastic bumper meets the fenders at each corner. Peel the plastic out and away from the fender by pulling back and out firmly.

Lift the center of the bumper cover up a bit so that it lifts off the mounts by the headlights. Pull away from the vehicle and the entire plastic bumper will come off with the grille attached.
3) Now the aluminum support bar and its mounting brackets behind the plastic bumper can be removed. None of these parts **except the 8 mounting bolts** will be reused. Use a 14mm socket and extension to reach inside the aluminum support and remove the nuts.

Once the support bar is off, remove the brackets that held it to the frame.

Keep the mounting bolts since they will be reused to hold the new bumper onto the vehicle.
4) Now the plastic bumper cover can be prepped to cut. There are some pieces that need to be removed from the inside of the bumper cover first. Remove the screws that hold the fog light into the bumper and take the fog light out.

Pop the plastic clips loose that hold the wiring harness to the lower plastic grille inserts that are in the bumper.
Remove the Philips head screws from the lower grille pieces and remove the grilles from the bumper cover. Leave the wiring harness inside the bumper cover.
Push in the plastic tabs with a flat blade and remove the fog light surround.
5) Now that all the pieces have been removed from the bumper cover, it's time to mark and cut the bumper plastic. Use a dry erase marker and masking tape to mark the bumper.

Measure down 6 5/8" from the top corner of the bumper where it meets the fender to the very edge of the fender. Mark the bumper with a dry erase marker or put tape down first and mark the tape.
Use a straight edge of some kind to push up against the lip of the bumper just below the park sensors at the middle front area of the cover. Mark a line along the top of the straight edge out where the bumper starts to curve around the corner to the fender.

Use masking tape evenly connect that mark you just made with the first mark out on the corner of the bumper near the fender.
Draw arrows pointing to the correct side of the tape to cut along.
Draw or tape a straight line across the center portion that connects the upper half of the bumper to the lower half.

6) Now it is time to cut the plastic. Use a cut off wheel or an air saw cut through the plastic. Be sure to check that all the wiring and hoses are clear from the blade on the backside of the bumper before cutting! Always use eye protection!
   Cut along the edge of the tape where you marked it with the arrows. Be sure to go slow and steady to create as even of a cut as possible.
There are also some extra little flange pieces that hang down near the outer corners that need to be trimmed off.
The rough edges can be cleaned up with a sanding pad on the die grinder, or a sharp knife works well to scrape off any chunks of rough plastic left on the cut.

The plastic cutting is now complete and the Assassin bumper can be prepped for install!
If you are wanting to install any rubber edge trim along the cut area, now would be the best time to do it before the bumper cover gets put back onto the vehicle.

7) If you are installing a winch, light bar and any LED fog lights into the bumper, do that now. Most winches 8k-12k will fit inside the bumper just fine. The bolt mounting pattern is the same on all of them and will bolt right in. Some winches with integrated style electrical control boxes may require some trimming of the metal grille support bracket to fit since those types of winches are taller. No trimming would be required if a control box relocation kit is used to mount the control box somewhere else inside the bumper instead of directly on top of the winch.

This bumper will accommodate various combinations of LED fog light options. The cross hatch mounting pattern that is cut into the sides of the bumper along with the “L” shaped brackets we send provide multiple ways to mount lights. The “L” brackets may or may not be needed to mount the lights you want to use.

Here is an example of how we mounted 4 Extreme LED Stackers together as one light:
If you purchased a light bar from us it will bolt directly into the mounting tabs that are welded into the bumper.

Once all your accessories are mounted into the bumper its time to mount the bumper to the vehicle.

If you are wanting to trim your grille support bracket to allow a taller winch to fit, this is the area that needs to be cut:

Lift the bumper into place and loosely install all 8 of the original bolts that held the front support to the vehicle. Put the provided grade 8 gold zinc washers onto the bolts first before installing them onto the vehicle.
Here are the bolts with washers in place:

There are 3 bolts on the outside of the bumper on each side and one bolt on the inside on each side.

Also depending on how large the winch you are installing is, you may need to bend the AC condenser line out of the way a bit so it is not touching the winch.

Gently push on the line, it is soft and fairly flexible so it will move easily. Just be sure not to kink the line because it could cause the line to fail. Be sure to check that the line is not coming in contact with the winch or bumper in any way!

Let the bumper rest all the way down on the mounting holes in the lowest position. The bumper can be adjusted up to the plastic later if needed.

Using the photo above as reference, install the large “L” shaped brackets that connect from the back of the bumper to the frame. Use the 3/8” carriage bolt to hold the bracket to the bumper and use the 12mm fine thread bolt to hold the bracket to the frame. Use flat washers with the bolts as well.
Tighten down all the mounting hardware.

Be sure to check the steel power steering lines on each side of the bumper to make sure they are not coming in contact with the bumper tubes. These steel lines can be bent back slightly to create clearance between the line and the bumper.
8) Before re-installing the plastic bumper cover, now is a great time to route all the wiring and connect your winch and lights.

Once all the wiring is done and secure, re-install the plastic bumper cover. You will use the original screws and plastic clips to connect the bumper in all the original locations that are still available.
Do not forget to connect the headlight washer fluid tube, front parking camera and front park sensor wiring harness.

Also the plastic inner fender well will need to be shortened with a knife and the end will need to be attached to the fender well. Most will use a couple self drilling screws with washers to hold the plastic up to the steel fender well. Just be sure to check for any wires or hoses on the inside of the engine bay before drilling the screws into the fender well.

The final step is optional. Some choose to attach the plastic bumper cover to the Assassin bumper. This isn’t absolutely necessary as the original plastic bumper seems to stay in place pretty well without attaching it to the steel bumper.

9) There are 4 small holes in the top of the metal bumper that \(\frac{3}{4}\)" bolts can be installed through to attach the plastic bumper to the steel bumper. There is a small plastic flange that runs along the plastic bumper right along the cut line. Holes can be drilled in the plastic flange and then the bolts can be installed through the steel bumper and the plastic bumper to hold them together.
Your Assassin bumper install is now complete! Thanks for choosing C4 FAB!