

# HID/LED fog light systems for C5 Corvette Installation Guide

By Sharp Light Innovations LLC

# Tools list

## Required tools

- - Philips head screwdriver
- - Torx 15 screwdriver
- - Torx 20 screwdriver
- - 8mm open end wrench
- - 7mm wrench or socket
- - 10mm wrench or socket
- - ½" socket

## Suggested Tools

- WD-40, Liquid wrench or similar
- Socket extension suggested

# Phase 1: Accessing fog light area

1. Raise your headlight using the manual crank. You'll see three Philips head screws that hold the plastic trim bezel in place. remove these screws and the bezel



2. Remove the 4 torx 15 screws that hold the headlight cover in place. 2 are on the back and there's one on each side. Remove these and the headlight cover. Be sure not to lose the plastic or metal sleeve for the bolts.



3. Remove the 2 Torx 20 bolts/8mm nuts that are the headlight hinge joint. (It may be beneficial to spray these with WD-40 or similar as they are installed with Blue Lock tight from the factory)



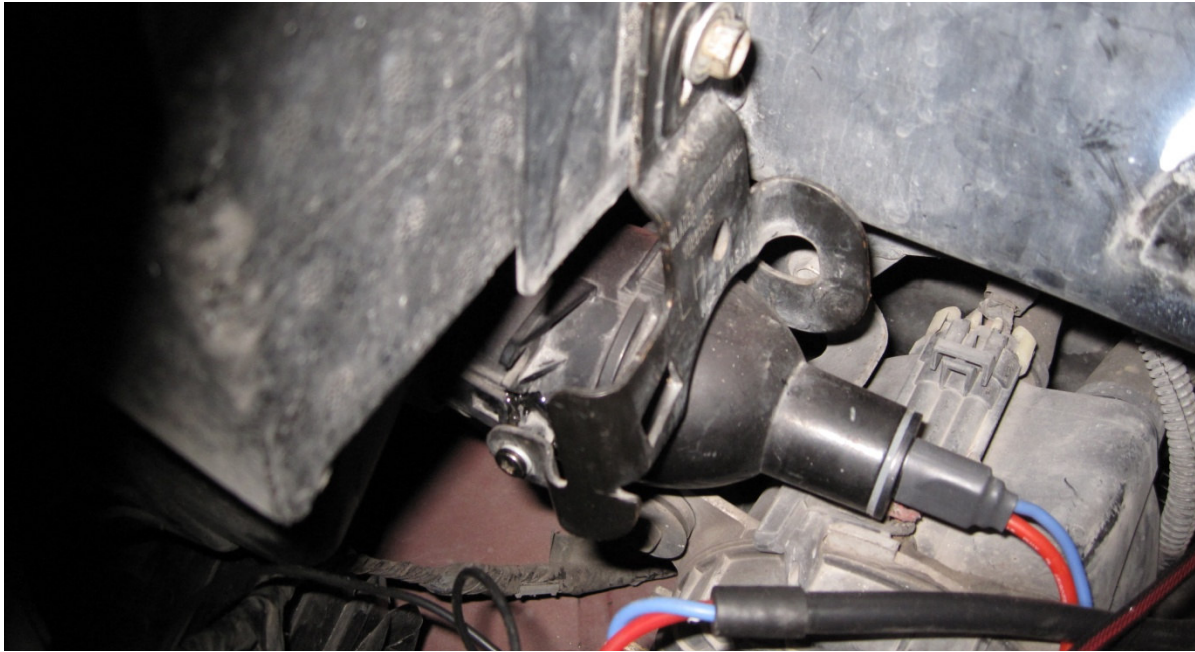


# Phase 2: Installation of Fog lights

Depending on which kit you ordered Instructions will vary:

## 4A. HID systems:

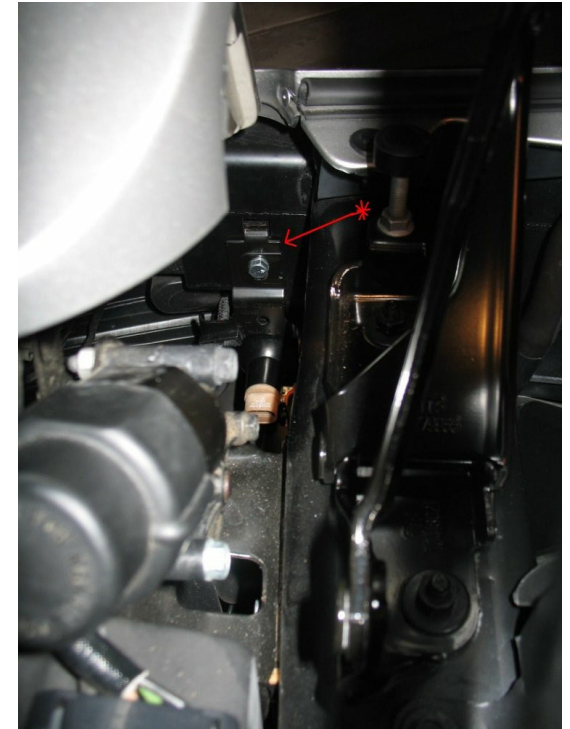
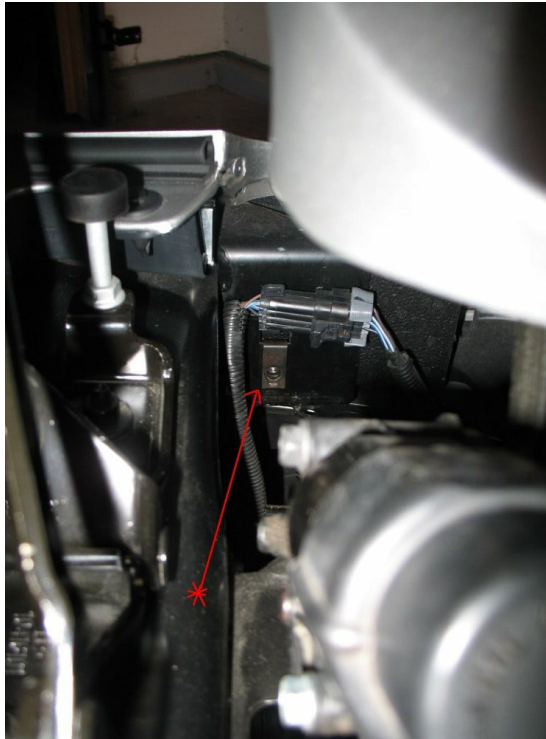
- If you purchased a bulb-only kit, remove the old fog lights bulbs and replace them with the new HID fog light bulbs.



- If you purchased a replacement HID fog light housing (Hella System) to replace your factory fog lights, use a 10mm socket to remove the factory fog light bracket, then a 7mm to remove the factory fog light. Mount the new fog light with the supplied hardware.

- If you purchased a complete Fog light system including brackets use the supplied “U” nut and hardware to install your fog light assembly (refer to pictures)

Mount the HID ballasts in a Clean/flat surface using double-sided mounting tape. Connect the ballast to the fog light harness using the supplied adapter harness (or supplied relay harness if You car did not come with fog lights)



4B. LED fog light kits – Simply replace your old fog light bulbs with your new fog light bulbs. Plug your new fog light pigtail directly into the factory fog light harness.

5. Once both fog lights are connected, check fog light function by turning on the parking lamps and pressing the fog light button. (Note: If you have LED fog lights and your car is a 97-98 you may need to reverse the polarity of the pins see step 5A)

## 5A (Reversing polarity if needed)

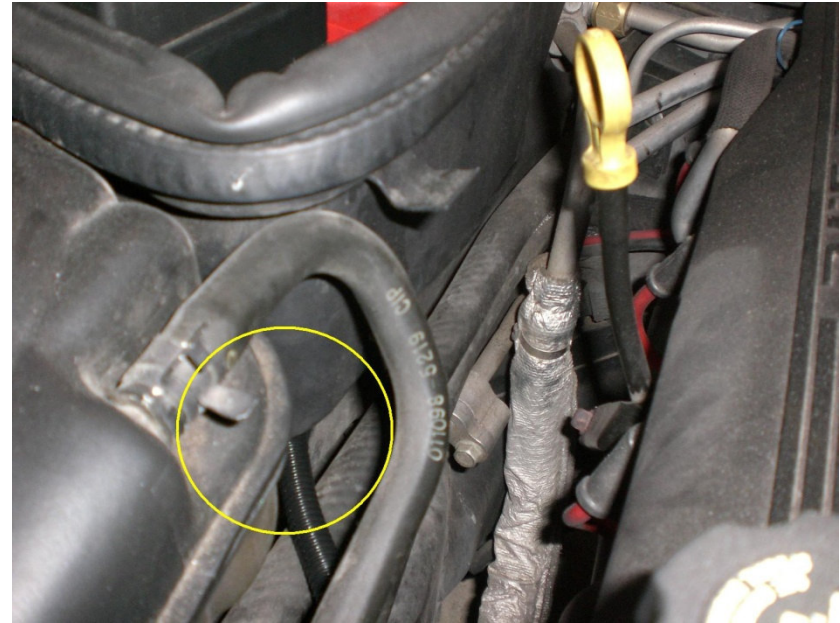
Remove grey pin lock. Use a large paperclip to release the pin lock as shown. Remove the pins and plug them in so they are reversed. Re-install the pin lock. Repeat for other side.



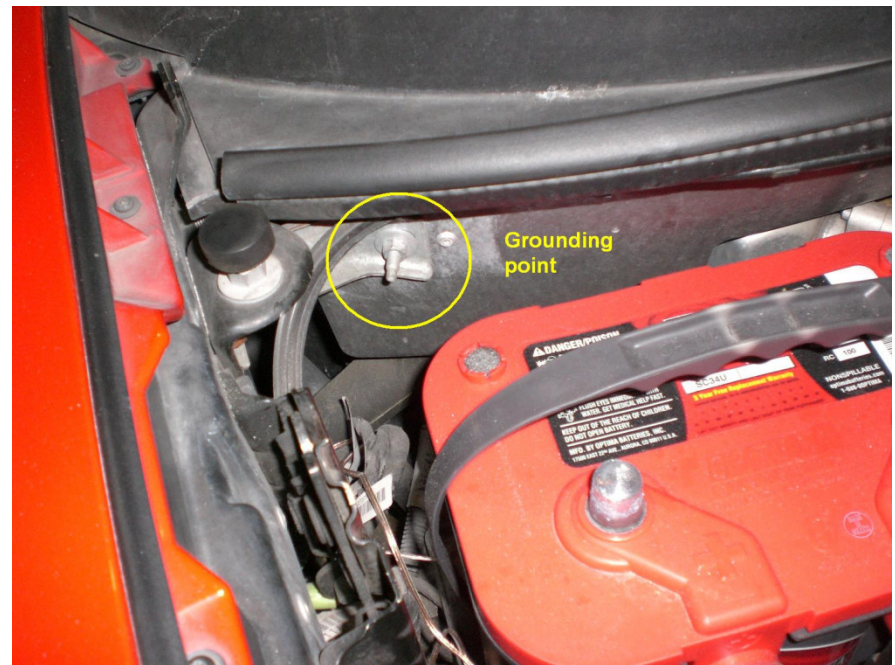


## 6A (Relay harness installation (for cars w/o factory fogs only)

Run the relay harness down the passenger frame rail up through the battery compartment as shown.



Remove the 10mm nut behind the battery and secure the ground ring on the black wire to the bolt. Replace the 10mm nut.





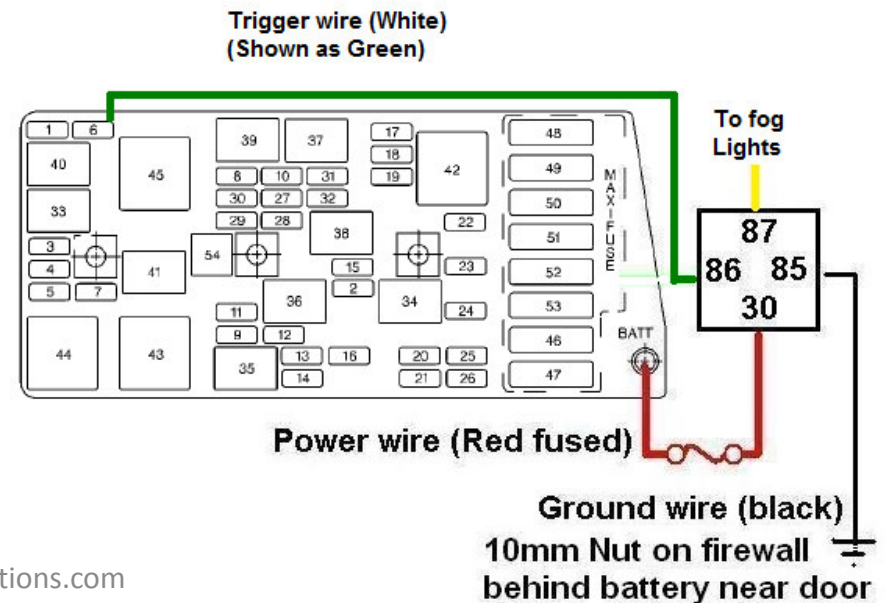
Connect the white “trigger” wire fuse tap to the mini fuse in the #6 (fog light) position as shown.



Remove the main fuse box input ½” nut. Connect the power ring terminal from the relay harness and replace the ½” nut.



Replace your trunk switch with the supplied GM Fog/Trunk switch by wedging a flathead screwdriver behind the old switch assembly and popping it out. Disconnect and replace with the new switch. Re-install the new switch.



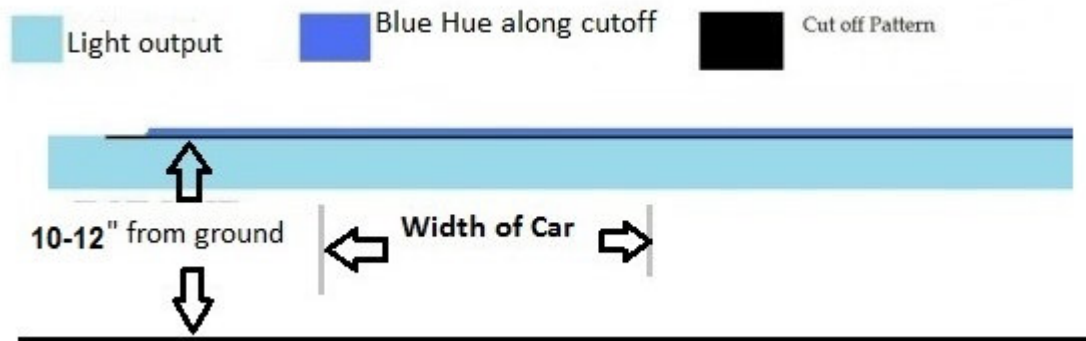
# Aiming.

Your new fog lights are substantially brighter than the factory ones so to get optimum output. you may need to adjust them.

Park your car on a level surface 15-20 feet away from a wall (preferably a white or light colored wall) You may need painter's/masking tape and a tape measure as well.

Your fog lights create a flat cutoff pattern with only vertical adjustment. The cutoff should be level with the ground. If not you can adjust rotation by loosening the mounting bolt that holds the fog light frame to the cross-member.

Both fog lights should be aimed between 10-12" from the ground at the wall.



Vertical adjustment of factory fog lights is done with a torx 15 screwdriver with the spring-backed screw. If you have the Hella fog lights, you will manually adjust the light housing then tighten the mounting screws.

# Notes

- When running your Low beams and fog lights, Flashing your high beams will cause your fog lights to turn off and on quickly significantly reduce their lifespan. so turn off your fogs if you plan to flash your high beams at night. (this does not apply to LED fog lights)
- The true purpose of fog lights is to illuminate the road immediately in front of the car in poor visibility. If you have factory headlights, these can be used to supplement their poor output, however if you have high quality aftermarket headlights, using your new fog lights in normal night driving may hamper your ability to see distant objects.



If you have any questions, please call (832) 431 4500 or email  
[president@sharplightinnovations.com](mailto:president@sharplightinnovations.com)

[sharplightinnovations.com](http://sharplightinnovations.com)