

## **Install guide for (2019-2024 Ram 1500 & Heavy Duty Truck OEM Factory LED Fog Light Upgrade Kit)**

Before you begin, make sure to checkout our install video. We spend a good amount of time getting these videos just right so that they will be a helpful guide.

### **Part lists**

- Heavy Duty Fog Lamp Bracket (C-BRAKFOG-DJ)
- Heavy Duty LED Fog Left (C-LGTFOGL-DT)
- Heavy Duty LED Fog Right (C-LGTFOGR-DT)
- Heavy Duty Fog Lamp Bezel (C-PANFOG-DJ)
- 1500 LED Fog Lamp Bracket (C-BRAKFOG-DT)
- 1500 Duty LED Fog Left (C-LGTFOGL-DT)
- 1500 Duty LED Fog Right (C-LGTFOGR-DT)
- 1500 Fog Lamp Bezel (C-PANFOG-DT)
- Fog Lamp Upgrade Harness (C-INTFOG-DT)
- Fog Light Screws x8 (C-SRWFOG)
- Fog Light to Bracket Screws x8 (C-SRWFOGBR)
- U-Nuts for Fog Lights (C-NUTFOG)
- Headlamp/Fog Light Switch Assembly (C-SWHHDL-DT)
- Genie Programmer (C-FOG)
- Security Gateway Module Bypass (C-MODBYP)



### **Tools required for installation, socket sizes & whatnot.**

- Light Source
- Pry Tool
- Flathead Screwdriver
- 7mm Wrench/Socket
- 8mm Wrench/Socket
- 10mm Wrench/Socket

**Skill Level:** 3

**Time Investment:** 2-3 hours



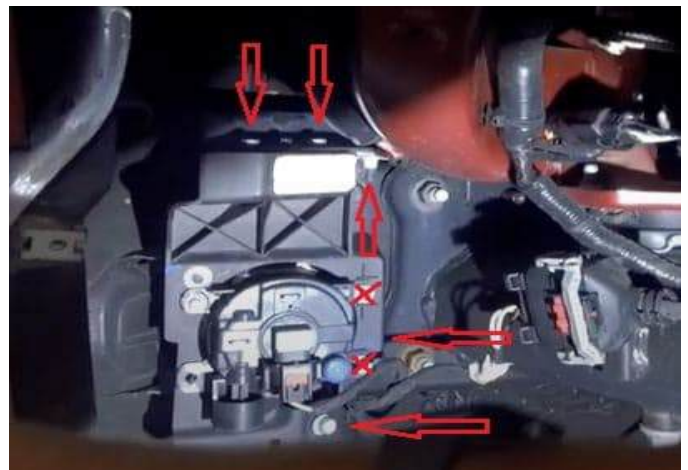
**Step 1:** Lets start by installing the fog lights into the bumper of the 1500. You can lift the vehicle for more access or turn the vehicle's tire to give you more room to work. Start by removing the five 8mm screws. Place panel off to the side.



**Step 2:** It is easier to remove the upper mud gaurd to gain better access to the two top screws for the factory fog light. This isn't nessessary but it is helpful. There are four screws and one plastic push clip, once removed you can fold the flap out of your way.



**Step 3:** Next we have five 10mm screws to remove from the factory fog light.

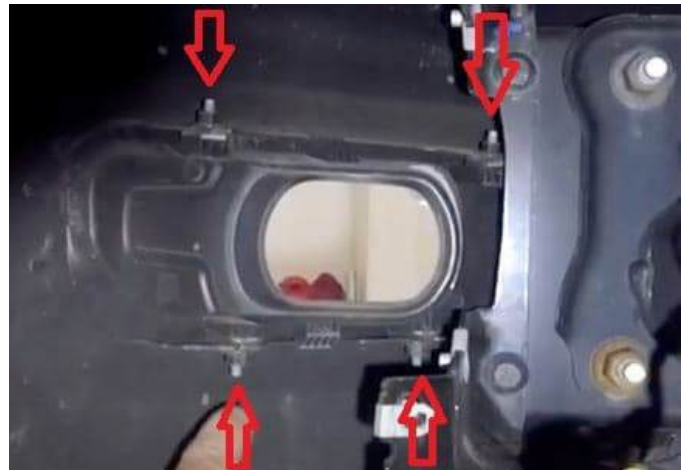


**Step 4:** Disconnect the factory connection on the fog light. Pull the red locking tab down then press the black tab in to release connection.

Note: There is a plastic clip holding the factory wiring loom to the fog light. Use a pry tool or flat headscrew driver to release this clip.



**Step 5:** Next we need to remove the factory fog light bezel. There are four 8mm nuts holding it in place, remove these four nuts.



**Step 6:** With the bolts removed, you can pull the screws the nuts were attached to out then pull and push the bezel out of the bumper.

Note: Some of the bolts can be a pain to get to release. When removing the fog light bezel they bolts will fall free. We need them for the new bezel install.



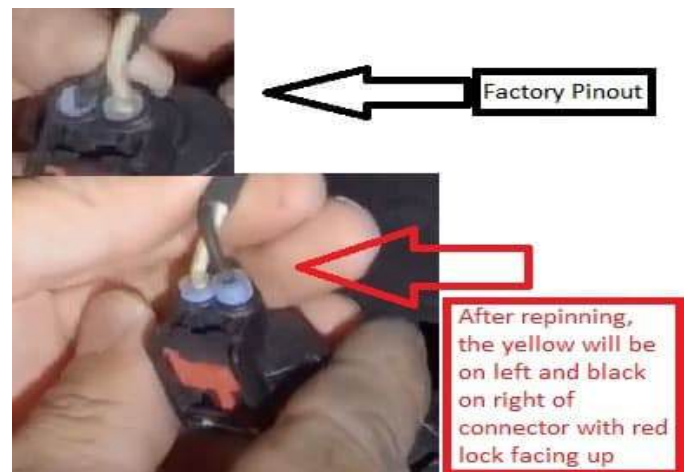
**Step 7:** Next we need to repin the factory fog light connector. This is easy to get done. Use a flathead screwdriver to remove the inner yellow cover in the connector.



**Step 8:** Once the inner yellow part is removed. You gain access to the black clip holding the pin in the connector. Use a small flathead screwdriver to pull tab back while pulling on the rear of the pin. The pin will slide free with the black tab out of the way.



**Step 9:** Swap the two pins around so you are left with the yellow wire on the left and black on the right. Reattached the yellow cover once repinned.



**Step 10:** Next we will install the new fog light into the new bracket using the four provided screws and install the two U-nuts on top of the bracket. Make sure the four screws are fully screwed down.



**Step 11:** Next we can snap in the new fog light bezel into the bumper. If you have front park assist the bezels will have cutouts for your sensors, just move them over to the new fog light bezel. If you do not have park sense then the bezel will snap in.

Note: It can be easier to put the bolts in place before snapping the fog light bezel in place.



**Step 12:** Now we need to secure the fog light bezel in place. Using the original four 8mm nuts and the bolts that went with them. Secure the fog light bezel in place.



**Step 13:** We can now install the new fog light with its bracket attached. There is a plastic tab at the top of the bracket to help line up the fog light install.



**Step 14:** Secure fog light assembly in place with the five 10mm screws.

Note: There will be a small gap between the fog light and bezel. This is the OEM way it lines up.



**Step 15:** Reattach the plastic clip to hold the wire loom to the fog light bracket. Then connect the fog light connector, you'll hear a snap once it is in place. Push the red locking tab in to secure connection.

Note: If you had no fog lights before then we will be running our own harness to plug into the fog lights.



**Step 16:** Then proceed with the exact same steps on the passenger side to install passenger side fog light.

Note: Proceed to Step 24 for wiring installation.



**Step 17:** Next we are going to install the fog lights for heavy duty trucks. First we need to remove the plastic trim covering the fog light openings. There are five 8mm screws/nuts holding the panel in place. Remove all five and place panel off to the side.



**Step 18:** Next we need to install four U-nuts on to the under frame for the bumper.



**Step 19:** We can now put the fog light bezel in place. Start with the outer edge then push till you hear the plastic tabs snap into place.



**Step 20:** You can now secure the fog light bezel in place with the four bolts and four nuts.



**Step 21:** Next lets attach the fog light to the fog light bracket using the four 7mm screws in the kit.



**Step 22:** You can now mount the fog light with the fog light bracket to the inner bumper frame. Use the four included 10mm screws in the kit to secure in place.



**Step 23:** Next move to the opposite side of the truck to install the other fog light. Following the same procedure.



**Step 24:** Next let's do some routing of wiring to get these fog lights working. Start by plugging in the driver side fog light then routing the fog light harness over to the passenger side going along the bumper. Plug in the passenger side fog light.



**Step 25:** Now you should have the rest of the fog light harness on the driver side. We need to route it into the cab of the truck. Start by removing the fender liner. There are eight 8mm screws along the outer rim as well as one 10mm screw. There are also two more 8mm screws on the inner rim as well as three plastic clips. Once removed, place fender liner off to the side.



**Step 26:** Once the fender liner is out, route the fog light harness up and over to the fire wall. From there find a rubber grommet to feed the two pins into the cab of the truck. The hoop connection will route up toward the truck's battery in the engine bay. We used a hook tool to feed from inside the truck to hook the pins to pull them through.



**Step 27:** We grounded to the grounding bolt right next to the ground terminal on the battery.

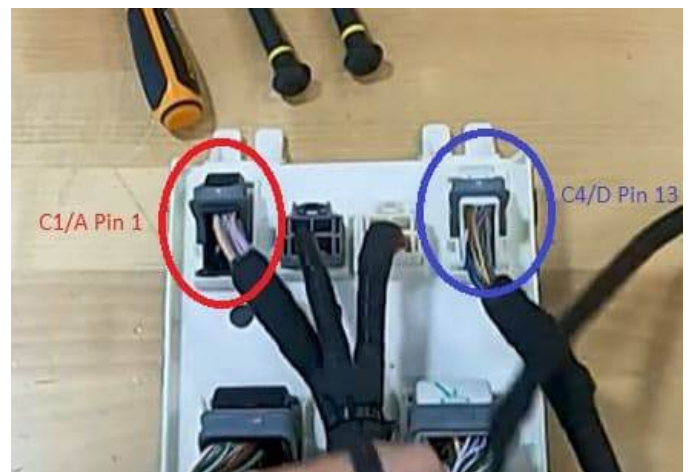


**Step 28:** Once you have the two pins in the vehicle, you will want to connect them to the BCM. The two pins are labeled in the kit. One goes to BCM C4/D on PIN 13. The other pin connects to BCM C1/A on Pin 1.

Note: The wire are labeled now, not color coordinated.



**Step 29:** The BCM is quite hard to get to. You want to get to the two top connections. We used an old BCM on a bench for a visual example. Pull levers back to release connection then insert our pin into the correct slot.



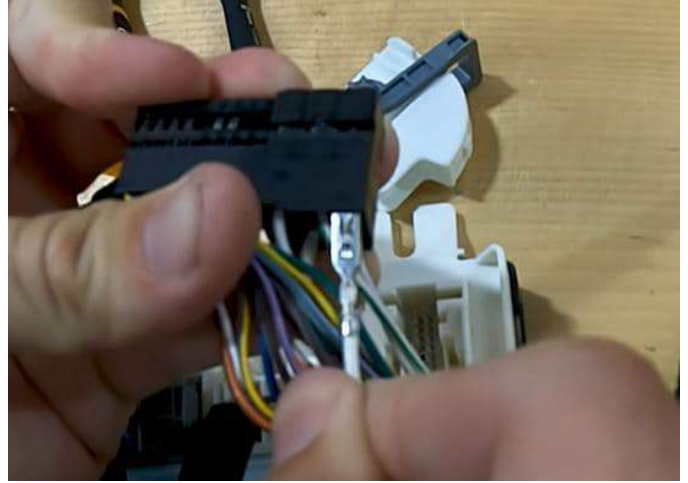
**Step 30:** C1/A Pin 1

Note: Use flathead screw driver to release the locking cover on the connection so you can insert pin.



**Step 31:** C4/D Pin 13

Note: Use flathead screw driver to release the locking cover on the connection so you can insert pin.



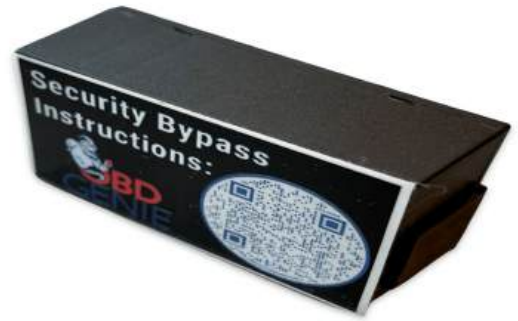
**Step 32:** You can see here how the BMC looks inside the vehicle once the two pins have been connected.



**Step 33:** Next we need to install the new fog light controller. Use a pry tool to pop out the old controls, disconnect the plug on the rear, plug in the new controller then reinstall in the dash.



**Step 34:** Install the Security Gateway Module Bypass in the appropriate place. Then proceed with genie programming. This step is only needed for 2018+ vehicles. To find your vehicle's bypass location click the link: [OBD Genie Bypass](#)



**Step 35:** Use the genie to program the vehicle for the new upgrade.

I. Put vehicle into the run position.

II. Wait 1 minute after putting the vehicle into run to plug in the genie programmer.

III. The genie once plugged in will flash blue as it tries to program.

IV. The genie will turn a solid green light once programming was completed successfully, programming can take 1-3 minutes long.

V. Remove the genie and give the vehicle a sleep cycle.

VI. Test out your new upgrade.

VII. Enjoy!



**Step 33:** Once programmed you'll be able to use the new controller to turn on the fog lights.



**Step 33:** Thank you for your purchase! Enjoy the upgrade!



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Customers are responsible for all return shipping charges unless they receive the wrong product or a defective item. It is recommended that the customer utilizes signature confirmation and/or insurance when shipping an item to Infotainment.com.

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To initiate a warranty claim, the customer is required to contact the customer service department by phone, live chat, or via the online ticket system at anytime within 90 days from the date-of-delivery. The representative will assist the customer with technical support and step-by-step troubleshooting procedures to resolve any issue or concern. If it is determined that the product(s) must be sent back for repair or exchange the representative will issue a Return Merchandise Authorization (RMA) number, which is required to process the warranty claim. A copy of a completed RMA form must be included with the return shipment to expedite the process. The item(s) must be shipped within 7 days of the RMA issuance. Infotainment.com reserves the right to refuse any package returned to them without authorization or process could be delayed over 30 days.

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therefore ending the warranty claim. Infotainment.com reserves the right to reject or impose additional charges for warranty claims if there is damage, missing components, excessive use/wear, a different serial number from when originally shipped, etc. Infotainment.com will allow up to two (2) claims per order before it is determined the item(s) will not work in the customer's vehicle. If the customer's warranty claim has not been processed within 3 weeks of arrival the customer is advised to contact the customer service department for an update.

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To initiate a warranty claim, the customer is required to contact the customer service department by phone, live chat, or via the online ticket system at anytime within 1 year from the date-of-delivery. The representative will assist the customer with technical support and step-by-step troubleshooting procedures to resolve any issue or concern. If it is determined that the product(s) must be sent back for repair or exchange the representative will issue a Return Merchandise Authorization (RMA) number, which is required to process the warranty claim. A copy of a completed RMA form must be included with the return shipment to expedite the process. The item(s) must be shipped within 7 days of the RMA issuance. Infotainment.com reserves the right to refuse any package returned to them without authorization or process could be delayed over 30 days.

A pre-paid return shipping label will be issued by the customer service representative for customers located within the continental U.S. only. Customers located outside the U.S. will be responsible for all incurred shipping charges and customs duty/tax fees to or from Infotainment.com. Customers are fully responsible to ensure the item(s) are



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packaged securely to prevent damage in shipping transit. Infotainment.com will not be responsible for damaged item(s) due to poor packaging.

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