

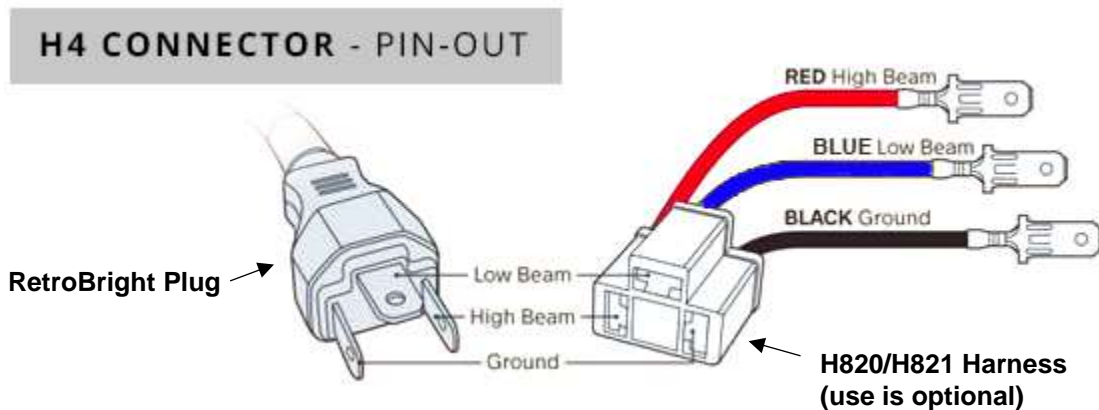


Holley RetroBright LED Headlights

Part Numbers: LFRB110, LFRB115, LFRB130, LFRB135, LFRB150, & LFRB155

Holley RetroBright LED Headlights are direct replacements for traditional sealed beam headlights. Due to potential changes made to the factory wiring by previous owners as well as differences unbeknownst to us from the manufacturer, it is always possible these part numbers may not work when plugged directly into the factory harness. As a result, included are instructions to determine if you will need an adapter harness (H820 or H821) or need to remove the wires and re-pin/reposition them in the female connector.

***ALWAYS CHECK VEHICLE WIRING TO CONFIRM CURRENT OR GROUND DUE TO POTENTIAL AFTERMARKET HARNESS VARIATIONS AND ANY CHANGES BETWEEN YEARS AND MANUFACTURERS. FAILURE TO DO SO COULD RESULT IN DAMAGE TO PRODUCT OR VEHICLE. DO NOT ASSUME WIRE COLOR MEANING ON THE FACTORY HARNESS! IF YOU ARE UNSURE OF THIS PROCESS, PROFESSIONAL INSTALLATION IS RECOMMENDED.**



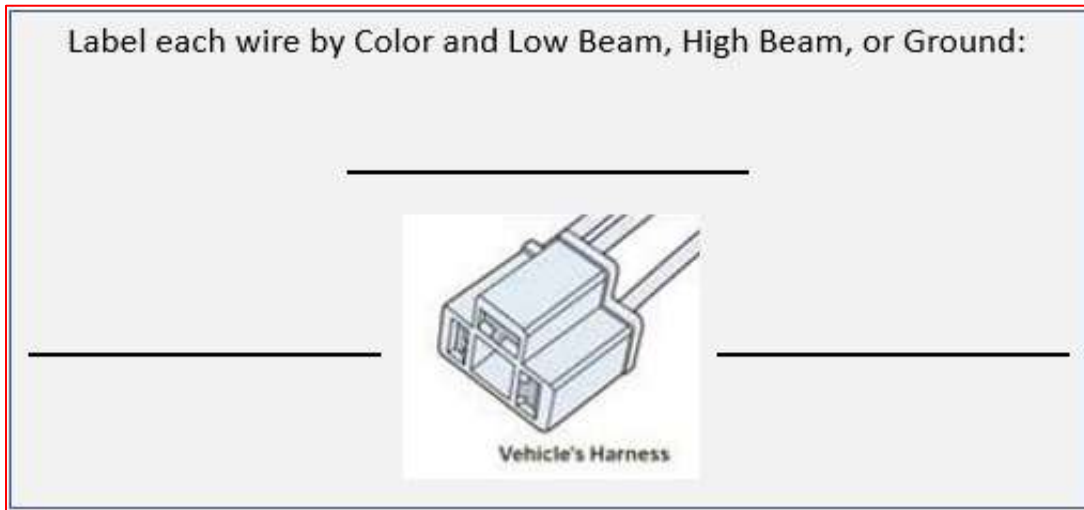
Parts List:

Qty	Description	Part Number
1	Holley RetroBright LED Headlight	LFRB110, LFRB115, LFRB130, LFRB135, LFRB150, or LFRB155

Installation Items/Tools: Screwdriver, circuit tester or multimeter, pin extractor (optional), dielectric grease, silicone/corrosion protection tape or heat shrink

DO NOT SKIP. Determine the corresponding wires on the vehicle harness with a circuit tester/multimeter to confirm which wires are low beam, high beam, and ground. **Write down** the data in the diagrams below or another paper and keep for reference. **DISCONNECT THE BATTERY.**

3 Terminal



Now that you have recorded your vehicle's wire location and color above, determine if the RetroBright pinout matches that of your vehicle harness:

- 1) If pinouts match, then proceed to Step 1 below.
- 2) If there are pinouts that do not match choose an installation scenario on page 3 that best suits your needs and skip to that section.

Pinouts Match

Step 1: Apply dielectric grease to connector or use corrosion protection tape/heat shrink to ensure a long-lasting, high quality connection.

2. Connect the Holley RetroBright plug to female side of your vehicle harness
3. Reconnect battery and test headlights for correct operation.
4. Install RetroBright Headlights in the reverse order the factory sealed beam headlights were removed. Always ensure headlights are aimed properly as outlined by the manufacturer. This process can usually be found in the vehicle owner's manual.
5. Enjoy twice the brightness of your traditional sealed beam headlights.

Pinouts do NOT Match (continued from Page 2)

Scenario 1 – Pinouts do not match the standard H4 wiring schematic:

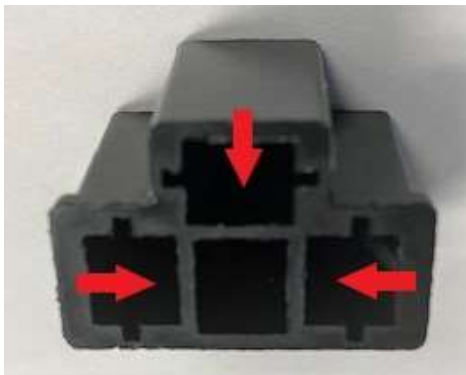
- a) Use a Holley H820 or H821 harness or build an adapter harness to connect your Holley RetroBright Headlight to your vehicle harness.
- b) Reconfigure your vehicle harness to match the standard H4 wiring found on the RetroBright lighting.

Scenario 2 – Factory harness utilizes switched grounds (common in Toyota):

Some manufacturers decided to control the headlights by switching grounds which is not common in sealed beam applications. In this case you must build or purchase a harness w/ relays that will convert the factory switched ground system to the standard H4 wiring with two hot wires and only one ground. This harness can be found easily online or from Holley (Part # H840). See Page 6 for diagram.

Scenario 1a – Use a Holley H820 or H821 harness and unterminated male connector (included with the H820/H821) to assemble an adapter harness that connects your factory wiring with the Holley RetroBright LED Headlight.

- 1) Using your vehicle side wiring diagram with confirmed circuits from page 2, insert the pins into the matching locations on the unterminated H4 male connector included in the H820 or H821. Be sure to insert the lead from the proper side (ridge around the edge and larger openings). When inserting the pin, the tab circled below **must** face inward towards the center of the connector to seat properly. Once seated, tug on each lead to confirm it has seated and does not back out.



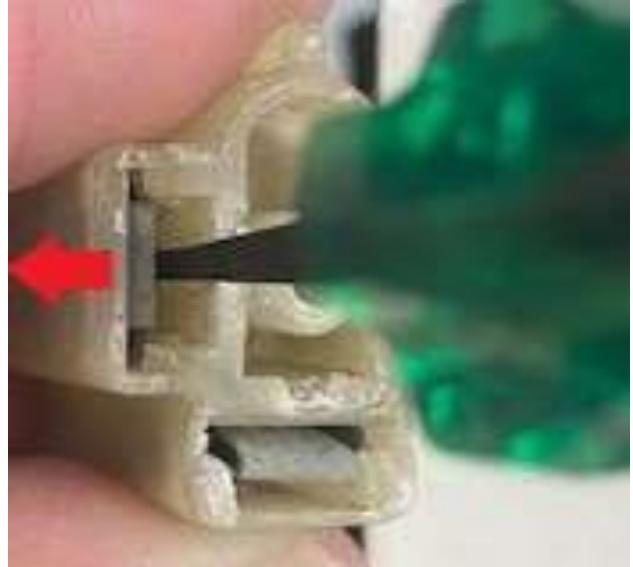
- 2) Apply dielectric grease to both male connectors (or use corrosion protection tape/heat shrink to ensure a long-lasting, high quality connection after steps 3 and 4 have been completed).
- 3) Connect the Holley RetroBright Headlight plug to female side of H820/H821 adapter harness.
- 4) Connect the recently terminated male side of the H820/H821 adapter harness to the vehicle harness.
- 5) Reconnect Battery and test headlights for correct operation.
- 6) Always ensure headlights are aimed properly as outlined by the manufacturer. This process can usually be found in the vehicle owner's manual.
- 7) Enjoy twice the brightness of your traditional sealed beam headlights.



Example shown of what a completed harness may look like. **Not all vehicles will match this picture exactly. It is imperative that the vehicle harness is checked to ensure wires are matched properly before powering on.**

Scenario 1b – Reconfigure your vehicle harness to match the standard H4 wiring found on the RetroBright lighting.

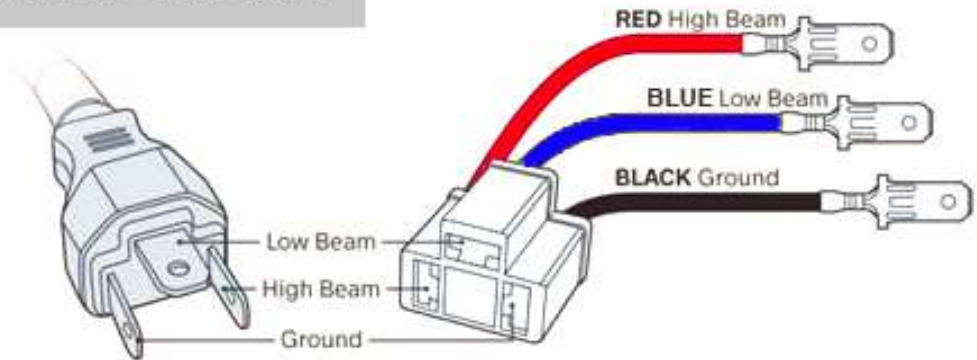
- 1) Using a pin extractor tool or very small flat screwdriver, remove all wires from the factory connector:
 - a. Push inward from the back (wire) side to relieve any tension on the pin.
 - b. Insert tool into the area circled, apply pressure outward (in the direction of the arrow) to depress the pin, and gently pull the wire out.
 - c. If the wire does not easily slide out, remove the tool and try again making sure you are engaging the pin and that there is no tension on it before trying to depress and remove.
 - d. If the factory connector will need to be replaced use Holley part # RBEC121.



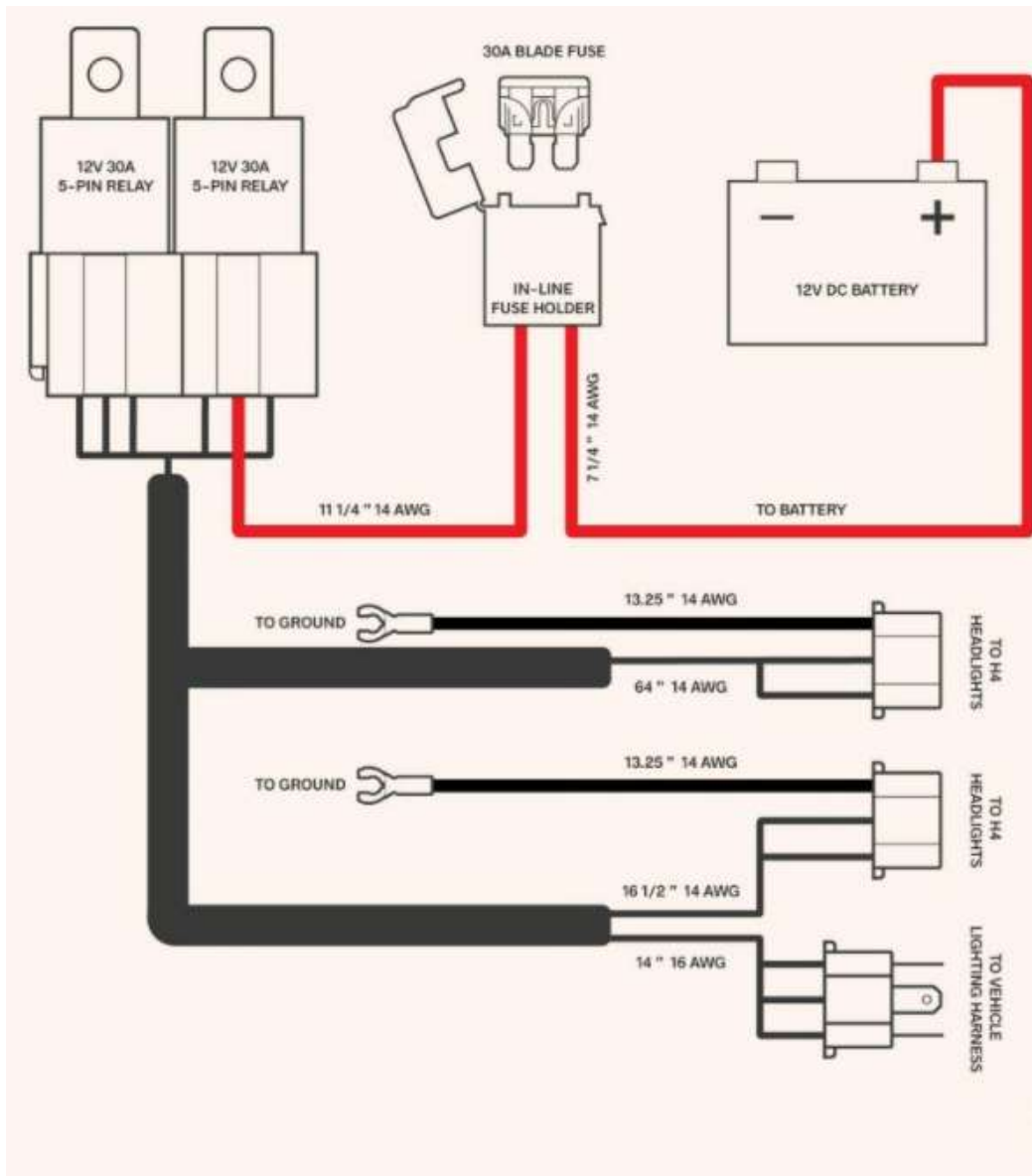
- 2) Once all wires have been removed, use the diagram that you created on Page 2 along with the diagram below on Page 5 showing the Holley RetroBright pinout. Be sure to line up high beam to high beam, low beam to low beam, and ground to ground. Insert leads in the same orientation they were removed (pin facing the center of the connector).
- 3) Gently tug on each wire to ensure the pin has seated. If the wire comes loose, use your tool to push the pin further out so that it catches/seats properly.

- 4) Apply dielectric grease to connector or use corrosion protection tape/heat shrink to ensure a long-lasting, high-quality connection.
- 5) Connect the Holley RetroBright plug to vehicle harness.
- 6) Reconnect battery and test headlights for correct operation.
- 7) Install RetroBright Headlights in the reverse order the factory sealed beam headlights were removed. Always ensure headlights are aimed properly as outlined by the manufacturer. This process can usually be found in the vehicle owner's manual.
- 8) Enjoy twice the brightness of your traditional sealed beam headlights.

H4 CONNECTOR - PIN-OUT



Scenario 2: Toyota Harness Diagram



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Date: 6-19-23