



FOREVER RAD BAJA LP6 HEADLIGHT KIT FOR INDIAN CHALLENGER INSTALLATION INSTRUCTIONS

This instruction sheet is to help assist you in the installation of our headlight kit, however, here is a link to a very thorough installation video from our friends at Davidson Audio: <https://www.youtube.com/watch?v=8ZDHBsXvdpY>

If you have any questions or still need assistance, please email us at kyle@foreverrad.com

1. Remove side covers, then the 2 bolts holding the seat on.
2. Open glove box doors and remove rubber glove box inserts.
 - A. Remove speaker grills by gently using plastic pry tool.
3. Remove OEM headlight bezel by inserting pry tool on the top edge of the bezel. Gently pry out from the top.
4. Remove outer fairing bolts following OEM procedure: 1 bolt next to each speaker, 1 bolt inside of each glovebox area, 1 bolt on the bottom of the fairing on each side, 1 bolt on each side of the headlight, and one bolt above the headlight (REMOVING 9 BOLTS IN TOTAL) (NOTE: The top bolt above headlight will not be reused with our kit). Fairing is ready to pull straight off towards you.
5. Unplug turn signals and OEM headlight.
6. Remove 2 rear bolts securing gas tank to the frame. Lift tank up and disconnect the fuel hose connection above the left side coil cover.
 - A. Depending on the year of your bike – 2020 models have a fuel vent hose and fuel pump wiring under the seat. Disconnect these before pulling off gas tank.
 - B. 21+ models have the fuel pump wiring under the OEM dash on the gas tank. Remove single bolt holding dash on, then remove the dash. Disconnect the wiring, then disconnect the fuel vent hose under the seat. Then pull off the tank.
 - C. Tank is now fully disconnected and can be removed from the bike.
7. Our wiring harness is designed to run under the gas tank, above the air cleaner, and down into the battery compartment.
 - A. Remove the 2 bolts holding on the battery cover, then remove the 2 bolts holding on the plastic radiator guard, and set these pieces aside.
8. Start installing the harness from the battery up. This will ensure no excess wiring in the battery compartment as well as plentiful wiring inside of the fairing to be able to plug the LP6 headlight in.
 - A. Follow OEM harness from the battery tray up the right side radiator shroud, above air cleaner, up to backbone, into the inner fairing compartment. Use zip ties to secure harness in place.
 - B. Install battery terminal rings to OEM battery connections. Red to Red (positive) Black to Black (negative). Open fuse holder on our harness, and make sure fuse is secured. Close cover on fuse holder. Leave fuse holder in front of the battery.
9. Plug in our headlight source plug on our harness into OEM headlight plug.



10. The relay can be zip tied to any available harness or it can be anchored to the left side aluminum fairing mount using the tapped hole from the factory.
11. Make sure you have a few inches of wiring for the LP6 square (4 pin) plug for when you final install your fairing.
12. Place fairing on a flat protected surface so you don't scratch your paint and remove OEM bolts holding OEM headlight bracket in place (2 bolts). Set bracket and OEM headlight aside.
13. In your LP6 kit, you will find a hoop shaped bracket. This comes with the LP6 from Baja directly, you will NOT use this. Set aside. You will also find a hardware pack from Baja, open hardware pack – you will ONLY USE the 4 short 7/16" bolts and 4 washers to attach the LP6 to our Forever Rad bracket. The remaining hardware can be set aside.
14. Bolt LP6 to our bracket with bracket laying flat, and the LP6 facing the sky. Evenly from side to side, tighten the 4 bolts. For headlight aiming, we prefer the light to be horizontal with the bracket and bench.
 - A. Upon final installation, you may find you prefer a different adjustment. If that is the case, you will need to remove fairing and re-aim headlight.
15. Using the 2 OEM bolts that hold the OEM headlight bracket to the fairing, install the Forever Rad LP6 kit into fairing.
16. Re-install your fairing following OEM procedure with the 8 bolts in total.
 - A. Gently plug in your LP6 until you hear a "click".
17. Turn ignition for the bike "ON", press headlight switch, make sure headlight turns on. DO NOT flash hi-beam repeatedly as this may throw a code while the bike is not running (This is common for all aftermarket headlights on an Indian Challenger).
 - A. If headlight turned on – wiring should be correct. Turn bike "OFF" and re-install gas tank following OEM procedure.
18. After re-installing the gas tank, turn ignition "ON" – do not use the OEM headlight switch to turn light on, just start the bike like normal and the light will function like OEM. While bike is idling, ensure you have proper low beam and hi beam operation using factory headlight switch.
19. Re-install the seat, side covers, radiator guard, battery tray seat and side covers.

Now it is time to modify your headlight bezel to clear the LP6. Please pay extra attention to this step!

1. Remove rubber boot from headlight bezel and set aside, you will re-use this.
2. Take our vinyl template and place onto the TOP SIDE of your headlight bezel. Printed on our template it reads "This side up". It means just that – lettering facing UP (facing the sky).
 - A. With template in place, use a marker or tape follow the template guide to cut your bezel (ONLY CUT A STRAIGHT LINE ACROSS THE BEZEL. YOU DO NOT CUT THE NOTCH PORTION. THE NOTCH PORTION IS ONLY THERE FOR MAKING SURE OUR TEMPLATE CANNOT MOVE WHILE MARKING YOUR CUT!). If you are unsure at this point- please watch the install video mentioned at the top of this instruction sheet or reach out to us prior to cutting your bezel.
 - B. We prefer using a Dremel tool with a cut-off wheel on it, and a die grinder, and a mini belt sander. However, you may use your tools of choice. Please be patient, this is not a difficult procedure – it just requires patience.



- C. Once the bezel is cut, use a razorblade, scissors, or tool of your choice, to clean up the edges of the bezel. You may attempt to reinstall the bezel without rubber boot, you may find that you need to open your hole size up just a little bit more. Trim slowly as necessary to get the bezel to fit.
 - D. You may also find it is quite difficult to reinstall the bezel due to the flange on the bottom of the bezel. Tip flange into the fairing under the headlight at a very sharp angle and push down, then tip the top of the bezel in. If you find that this step is not working for you – remove the flange completely, or shorten the flange on the bottom using the tool of your choice. The bezel is plenty secured when finished even without this bottom flange.
3. Once the bezel is fitting perfectly, you will hear a “click” when it snaps into place and the retention tabs on the top of the bezel will lock into place. Ensure you are happy with your trimming. At this point, you will remove bezel one final time, and reinstall the rubber boot.
 4. You will see the excess rubber that needs to be removed from the rubber boot. Mark this area with a marker or tape, and remove excess with a razor blade, scissors, or your tool of choice.
 5. Reinstall bezel with rubber boot attached ensuring you hear the “click” on final installation.
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SIDE NOTE:

Here at Forever Rad we have installed every single OEM and aftermarket headlight replacement available for the Indian Challenger. (OEM Indian adaptive, J.W. Speaker, Custom Dynamics, Eagle Lighting, Moons MC, etc.) Even using an OEM headlight and these mentioned aftermarket headlights, we have seen the bike throw a hi-beam indicator code.

Although this should not be normal, it is not uncommon- and a simple power off and power on will reset your code. We generally only see this code while switching from hi-beam to low-beam while bike is not running.

If bike throws a flashing hi-beam code while riding – you will NOT have a functioning hi-beam light but you WILL still have lo-beam. Again – THIS CAN BE RESET BY CYCLING THE IGNITION OFF THEN ON AGAIN.

Thank you for your support – and enjoy the best investment you can make for your Indian Challenger.