

VRSC-DX Truck-Lite LED Headlight Installation Instructions



The following Instructions are for installing a 7" Truck-Lite LED headlight into a Harley Davidson VRSC-DX Night Rod Special fairing. Other 7" headlights may work with this bracket but are not verified to fit.

Tools Needed:

- 5MM Allen Wrench
- 8MM Allen Wrench
- 15MM Deep Well Socket
- 5/32 Allen Wrench
- 3/16 Allen Wrench
- Phillips Screwdriver
- Painters Tape
- Blue Lock-Tite

Items in the Box:

- (1) Headlight Bracket
- (5) ¼-20 Stainless cap head bolts
- (5) ¼ Stainless washer
- (1) Truck-Lite LED Headlight part #27250C (If Purchased with the kit)

Installation Instructions for Mounting LED light:

1. Place painters tape on the front side of both forks to prevent marring of the finish when removing the fairing.
2. Using a 5mm Allen wrench remove the left side vent cover located near the neck of the bike.
3. Locate and disconnect the headlight harness. This is a 4 pin connector with a black wire, a tan wire, and a yellow wire.



4. Rotate the fairing forward by grabbing the top and firmly pulling it forward.



5. Apply painters tape to the front of the headlight fairing to prevent marring of the finish.
6. Using the 15mm socket with extension and an 8mm Allen wrench remove the headlight mounting bolt. The headlight bolt utilizes a locknut and it will have resistance until it is completely off. Be careful to not drop the fairing.



7. Place fairing face down on a towel on a flat surface.

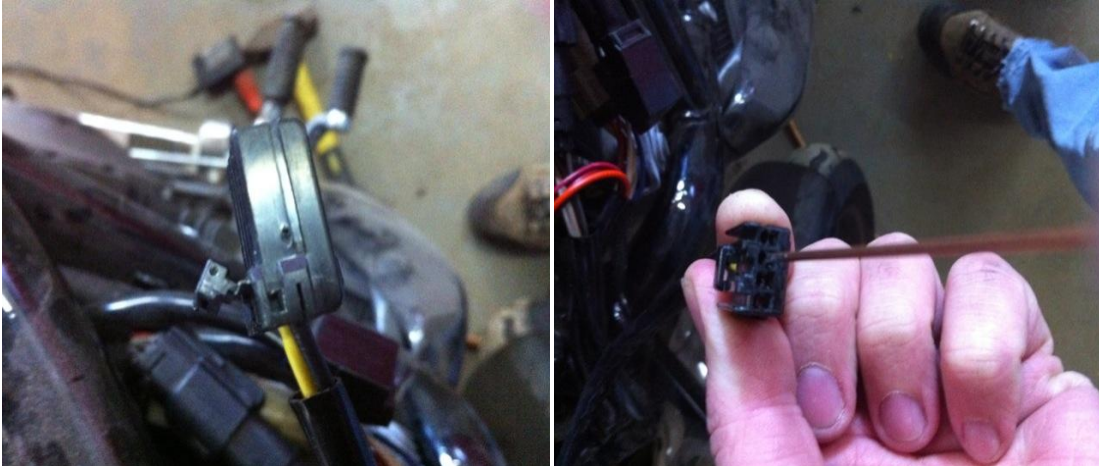
8. Use the 5/32 Allen wrench to remove the 4 Allen bolts holding the plastic housing to the fairing. This plastic housing will not be reused.



9. You should now be able to work the stock headlight housing loose from the fairing. If the rubber trim does not come off with the headlight then remove it now.
10. Open the stock headlight by removing the Phillips head screw on the trim ring.



11. Disconnect the plug from the headlight.
12. De-pin the 4 position plug. Notate the position of the 3 wires before removing. There is a hinged plastic piece that must be released first to remove the pins. Looking inside the connector from the end you can see the little plastic piece that holds the pin in place. Insert a filed down paper clip to release the plastic clip and pull on the wire at the same time. It takes a little bit to get the hang of it but it's not too hard once you figure it out.



13. Pull the stock harness through the rubber plug in the stock headlight. It will be easier if you first dislodge the rubber plug from the headlight housing. Replace the 3 wires back into the 4 position plug in their original positions.



14. Now unpack the LED headlight and orient the headlight with the top of the headlight toward the top of the fairing. TOP is printed on the front of the lens. The headlight should fit flat against the headlight opening in the fairing. You will notice 5 grooves that have been cut into the edge of the light. These should line up with the 5 bolt bosses in

the fairing. If they are slightly out of alignment these can be opened up easily with a round file.



15. Place the new headlight mounting ring onto the backside of the LED headlight. The 5 holes in the ring should line up with the 5 grooves in the headlight.
16. Using a 3/16 Allen wrench, install the 5 stainless bolts and washers through the ring and into the fairing. Place a little dab of blue lock-tite onto the threads so that they do not back out. Do not over-tighten the bolts. Install them all loosely and then tighten them in cross pattern until they are all snug. They should pull the headlight lens flush with the headlight opening in the fairing.



17. Reinstall your stock headlight wiring through the motorcycle side mount and reconnect the 4 pin plug to the motorcycle wiring.
18. Place the fairing and headlight assembly onto the motorcycle headlight mount. This should be a fairly tight fit. Utilize the top hole if you want to place the fairing in a lower than factory position. Utilize the lower hole if you want to place the fairing in a factory height position. Note: The fairing will be slightly forward from the original position due to the larger size of the headlight.
19. Re-install the headlight mounting bolt and tighten. Tighten the nut fairly tight but loose enough that you can still rotate the fairing up with a little effort.
20. Plug the stock harness to the Truck-Lite LED harness.
21. Rotate the fairing upward and aim headlight to desired position. Note: If the fairing is slightly leaning to one side or the other loosen the two Allen bolts that hold the motorcycle side of the headlight bracket and reposition the bracket until straight. My bike had the bracket mounted at a slight angle from the factory and it needed to be corrected.
22. Replace left side vent on bike.
23. Go out and ride and enjoy your new LED light!

Instructions for Modifying Truck-Lite LED headlight:

1. Tape up the edge of the lens of the LED headlight with painters tape.



2. Locate the center of the top of the LED light. TOP is labeled on the lens of the light.



3. Mark this location with a sharpie.



4. Use the plastic housing that you removed from the back of the factory headlight to mark the orientation of the 5 holes onto the edge of the light and continue this line onto the painters tape. If your top hole is not drilled out in the plastic housing then it should be marked. Just drill it out the same size as the 4 other mounting holes prior to marking the headlight.



5. Using a Dremel tool or round file make 5 grooves approximately 1/16" into the edge of the LED headlight. The case is made of aluminum and the lens is polycarbonate so it should be fairly easy to make the groove.
6. On the front side of the light there are 3 points that stick up from the face of the lens. The 2 toward the top of the lens need to be clipped off with a pair of cutters. They can also be sanded down just be careful to not damage the lens. Do not worry about these cuts as they can't be seen when the headlight is installed in the fairing.
7. Install in the fairing according the install instructions. If there is any interference between the bolts and the headlight then remove the headlight and clearance it accordingly.