

Deep Space Lighting

PETERBILT 388/389/567 Bi-XENON HEADLAMP KIT

DIY Installation Instructions

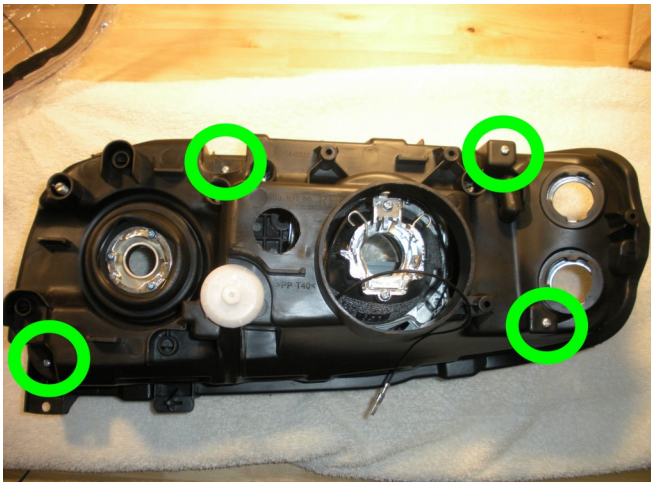
Estimated Installation Time: 2 hours

Tools Needed:
 #2 Philips screwdriver
 Assortment of flat screwdrivers, putty knives/blades
 Side cutters
 Dremel tool or 1 1/2" hole saw
 Oven

Before starting, make sure your headlamp is a good candidate for retrofitting. Look for moisture—if present, additional butyl sealant is recommended for reassembly. Hazed lenses should be polished and clear-coated for optimal performance, but that holds true with or without the kit. However, the lenses can be easily polished during installation. If the truck has been exposed to road salt, soaking the headlamp mounting bolts with a penetrating oil is advised.

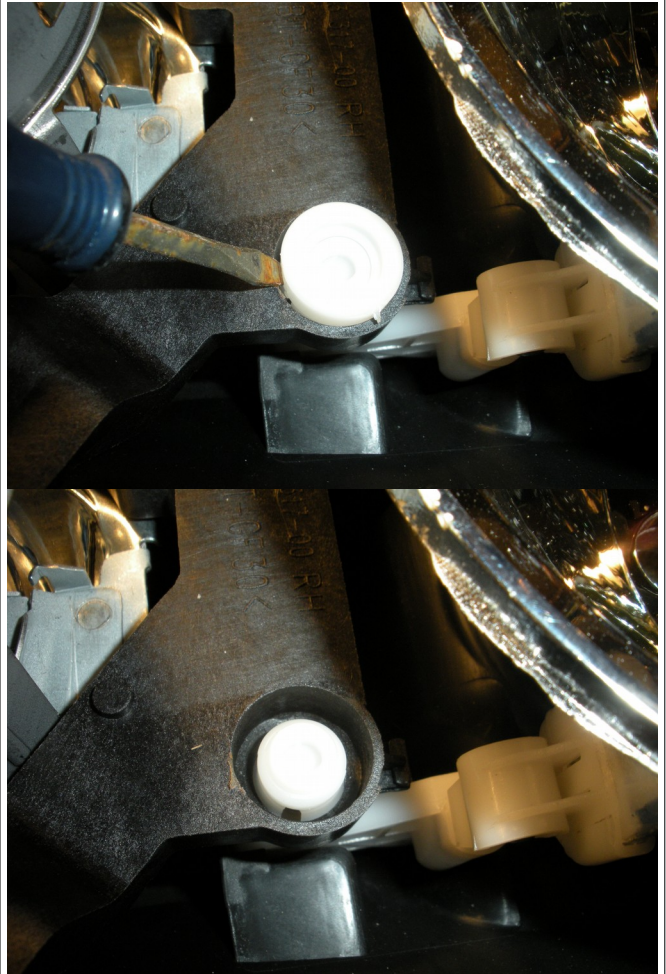
Package contents:

- 2 Morimoto Evo-XR projectors
- 2 Morimoto XB ballasts
- 2 D2S bulb to XB ballast connectors (with igniter)
- 2 Wiring harnesses
- 2 Velcro mounting pads
- 2 Morimoto XB35 bulbs

<ol style="list-style-type: none"> 1. Remove headlamp from truck. 2. Disconnect all wires and bulbs from headlamp, and remove 3 metal retaining clips with small screwdriver. 	
<ol style="list-style-type: none"> 3. Preheat oven to 225°F. Lay soft towel on work surface to protect against scratches. 4. Place headlamp in oven for 5-10 minutes. Make sure lamp assembly is not in contact with oven walls, and that clear lens is facing up. 5. Remove from oven. 6. Immediately begin prying clear front lens from headlight housing. If sealant is still hard, or hardens while working, return to oven for 3-5 minutes. 	
<ol style="list-style-type: none"> 7. Remove 4 small Philips screws on back side of lamp housing that hold large shroud in place. Remove large shroud and set aside, taking care not to leave fingerprints on chrome surface. 8. Remove projector shroud by pulling up around edges. 	



9. Remove 3 adjuster retaining rings by prying up with a small flathead screwdriver.



10. Lift projector frame from housing. Remove 4 Phillips screws holding low beam projector in place. Remove projector from frame.

11. Trim frame as shown (white marks). Tin snips,

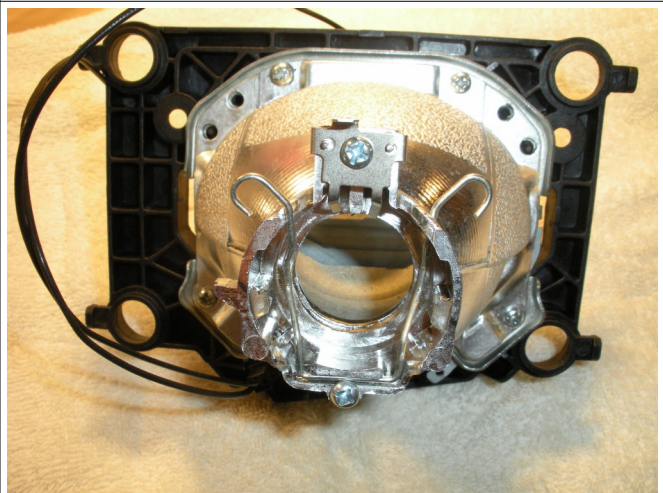
side cutters, or a sharp blade will cut plastic.



12. Remove new projector from box. Remove 4 screws and nuts holding projector halves together (shown in blue)



13. Set new projector in frame, and mount in place using screws removed in step 10.



14. Enlarge low beam wiring access hole to 1-1/2" diameter. Test fit grommet on ignitor wiring. Clean any loose material from housing before proceeding.

15. Set frame back in housing, and reinstall retaining rings.



16. Install projector shroud by pushing it onto projector. Reinstall large shroud with 4 screws removed in step 7.



17. Reinstall large shroud and 4 screws removed in step 8.



18. Reinstall clear outer lens onto headlight assembly. Heat lamp assembly until sealant becomes soft, and press tightly together. Reinstall 3 metal retaining clips removed in step 1.




19. Feed high beam solenoid wires (small black wires attached to projector) through ignitor grommet and mount grommet onto housing (the hole enlarged in step 14).

20. Insert loose solenoid wire terminals into black plug shell in projector box.



21. Connect *Low Beam Input* connector on adapter harness to connector removed from low beam bulb in step 1. Verify that plug is oriented correctly.



<p>22. Connect adapter harness <i>High Beam Solenoid</i> connector to the connector attached to the bi-xenon projector (small black wires). Make sure connectors are inserted straight to avoid bending pins.</p>	
<p>23. Unplug headlamp harness from high beam bulb, and connect the plug removed from the high beam bulb to the <i>High Beam Input</i> connector on the adapter harness. Optionally, reconnect high beam bulb using connector labeled <i>High Beam</i>.</p>	
<p>24. Connect bulb to ballast connector to ballast and bulb, and connect adapter harness <i>Ballast</i> connector to ballast input.</p>	
<p>25. Install bulb into projector and lock in place with retaining clip. Connect bulb adapter to xenon bulb by aligning tabs on bulb, and twisting clockwise until locked. Do not use excessive force.</p>	
<p>26. Secure ballast inside headlamp pod and reinstall headlamp housing and pod onto hood. Reconnect headlamp harness to vehicle harness, and confirm headlamp operation with engine running.</p>	
<p>27. Verify proper headlight alignment.</p>	<p>When aimed at a wall, the left cutoff in the low beam pattern on the wall at 25 feet should be approximately 3.5" below the center of the projector.</p>

