

Vanabliss South Portland Headlight Kit

Installation Instructions (One Side)

See the [Wiring Guide](#) for more details.

Important Notes

- Do not twist or bend the kit. Pieces are designed to be flat.
- The factory headlight cage must be cut for proper fitment. This is required.
- Now is a good time to put in 8 new main adjusters.
- The backside of the grille must be trimmed to allow correct clearance.
- On the right side (passenger) of the kit, “Vanabliss” will appear reversed.
- All components are oriented so that “Vanabliss” reads upright when installed correctly.
- The kit components are plastic and the hardware is metal.
 - Tighten all fasteners by hand only. Do not over-tighten.
 - If a screw does not thread easily, it is likely misaligned—do not force it. Back it out and try again.
- Start the outer top adjusters about 1.5” from base to top. Start the other adjusters about 1” from base to top.

1. Modify the Headlight Cage

- Cut the cage to match the opening shape indicated in the photo. A 4” cutting wheel works well. If you're precise, this can be done in 9 cuts. Trim the burs with a sanding wheel or file.
- Some lights require a slightly larger opening—adjust as needed. The rear of the headlight must pass fully through the opening without obstruction.



2. Trim the Grille Mounting Points

- On the top and bottom, outer, grille **connection** tabs, remove approximately 1/8" (about half the thickness) from the inside lip. (pic 1)
- On the top connections tab, trim both the inner sides by approximately 1/4" to allow headlight pivot movement. (pic 2)
- Pic 3 shows that more needs to be removed to prevent binding.



3. Clearance the Grille Opening

- On the backside of the grille, shave down the inner lip around each of the ends, to include about 2" past the corners.
- Smooth the surface to ensure proper fit and prevent interference.





4. Install Threaded Inserts (Nuts)

- Insert nuts into all 8 mounting locations. #8 is in the E block.
- Press each nut in until fully seated and flush.
 - A screwdriver can be used to apply even pressure.



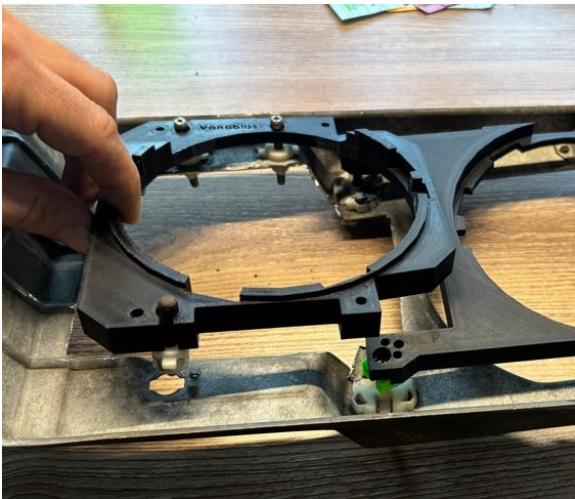
5. Install Outer Adjuster Assembly

- **The remaining install steps are easiest done in a chair with the cage on your lap.
- Place the “E” block onto the lower outer adjuster, with the “E” facing upward.
- Position the backplate onto the two upper adjusters.
- Gently press the “E” block into the backplate.
 - It does not need to fully seat at this stage.
 - Dry fitting beforehand can help confirm orientation.



6. Install Inner Adjuster Assembly

- Remove the lower inner adjuster from the factory cage.
- Insert it into the single-hook side of the kit.
- Position the backplate onto the upper hooks.
- Attach the adjuster to the backplate.



7. Install Headlights into Frames

- Place each headlight into its frame.
- Align the indexing wedge (90° tab) on the light with the corresponding slot in the frame. It is easy for the light to shift in the frame, so keep an eye on the tab positioning as you tighten the kit.



8. Install Outer Frame Half

- Place the outer top frame into position.
- Use:
 - 2 × 1" screws (outer side)
 - 2 × 1.5" screws (inner side)
- Tighten gradually and evenly across all corners.
- Lightly squeeze the frame halves together while tightening to help alignment.
- Pinch the frame together as you go. The lower inner mount may need some help to stay aligned.
- Frames should sit flush.
 - A small gap may occur with larger lights—this is normal.



9. Install Inner Frame Half

- Place the inner top frame.
- Use 4 × 1" screws (pre-insert screws into the frame before positioning).
- Guide the top center of the headlight into the adjuster frame during installation.
- Tighter finger tight.
- Note:
 - The adjuster bridge is lightly glued for assembly ease.
 - If the glue releases, it will secure fully once tightened.





Installation Complete

Your Vanabliss South Portland Headlight Kit is now built on one side.