



## 2017-2019 L5P DURAMAX 4" INTAKE KIT WITH AIR BOX

Covers installation of PN: WCF100344

1. First, locate the packing list included with the kit and double check you have all items on the list.
2. Though it is not shown in this particular installation, we recommend leaving the bubble wrap on your piping and parts until install is complete to help protect the powder coat finish.
3. Disconnect the negative battery cables from both batteries.



4. Unplug MAF Sensor and disconnect intake pipe by disconnecting clamps and fasteners at the points indicated in the images above.



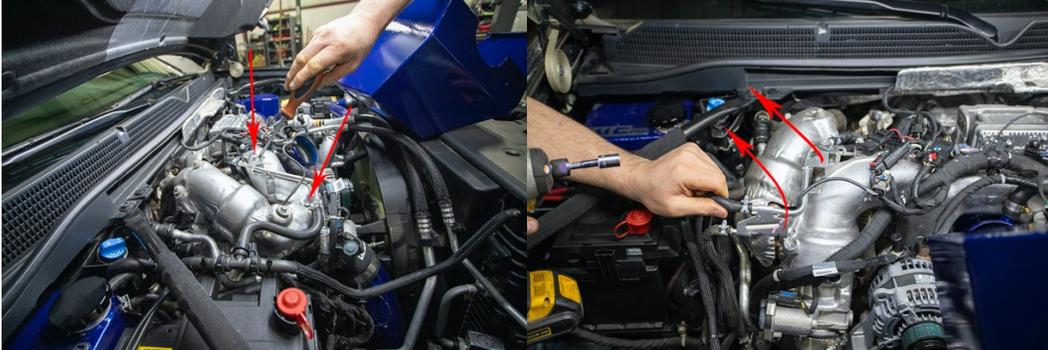
5. Unbolt Airbox and Resonator. Remove resonator and intake piping.



6. Remove coolant line clip and tuck safely out of the way. Next, remove OEM air box. Grab and pull up firmly to unseat from the inner fender.



7. Remove 10mm bolts and set aside for later re-use. Remove and discard lower air box mounting plate which will no longer be used.



8. Unbolt retaining tabs (2x 10mm bolts) shown. Shift coolant hardline gently out of the way to provide clearance for new air box installation preventing scratches to the powder coat finish.



9. Install lower air box as shown. It may be necessary to gently bend rear wall of the box to clear the fender brace if you choose to leave in place as shown. **This box goes in without force.**

Do not damage with excessive force on install. You may also remove the fender brace before completing this step and reinstall after lower air box assembly is in place if preferred.



10. With lower air box in place, loosely install rear OEM bolt indicated to locate assembly.



11. Adjust air box position, then use a paint pen to mark location on the lower brace that needs to be drilled for the included nutsert. Remove lower air box and drill marked hole as shown. Verify that nothing is under the location being drilled before making the required hole in the bracket.



12. Install supplied nutsert, reinstall lower air box and install saved OEM 10mm fasteners from Step 8 working clockwise from rearmost engine side first, completing fender side last. Adjust box alignment as necessary while completing this process.



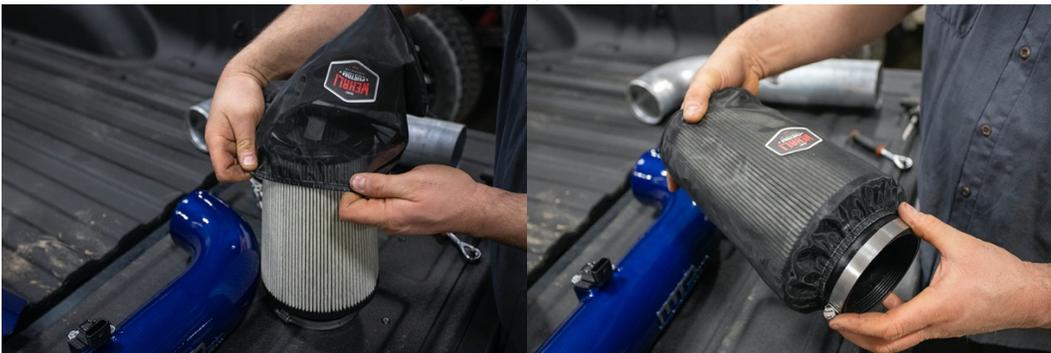
13. Note: Build tolerances vary from truck to truck. Many trucks will require no adjustments for your air box installation. However, on some trucks, the fender brace may contact the air box as shown in this image. To correct this, first loosen the brace at the fender using a 13mm wrench.



14. Next loosen the connection at the firewall and slide brace away from air box to achieve clearance (as shown above). Re-tighten brace once proper fitment is achieved.



15. Install supplied pipe seal on lower air box and trim to fit saving excess for use on the lid in Step 26. Next install coolant line retainer clip into pre-drilled hole in your new air box assembly.



16. Install pre-filter cover and clamp on air filter as shown.

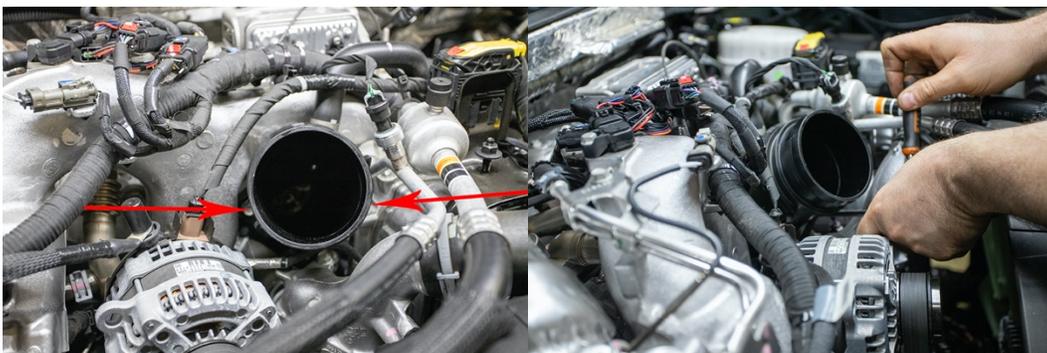


17. Using a tape measure and a marker, place small mark at 2" from filter end of your new intake pipe to help set mounting depth. Install filter onto pipe leaving mark exposed. **Improper filter depth can cause air restriction on your new intake.** Do not tighten filter clamp at this time.



18. Remove MAF sensor from OEM air intake and reinstall on your new air intake pipe using supplied hardware and maintaining correct orientation. **The OEM MAF sensor screws will not work.** Do not try to install them on your new pipe.

**NOTE: Steps 20 and 21 are optional and detail the removal of the OEM intake horn and installation of the WCFab High Flow Intake Horn WCF100721 (sold separately). If you are keeping the OEM turbo horn at this time, please skip ahead to step 22.**



19. To remove OEM intake horn, locate and remove bolts shown in images above. This can be done using a long  $\frac{1}{4}$ " extension and 13mm swivel socket. There is no reason to remove any other items for access.



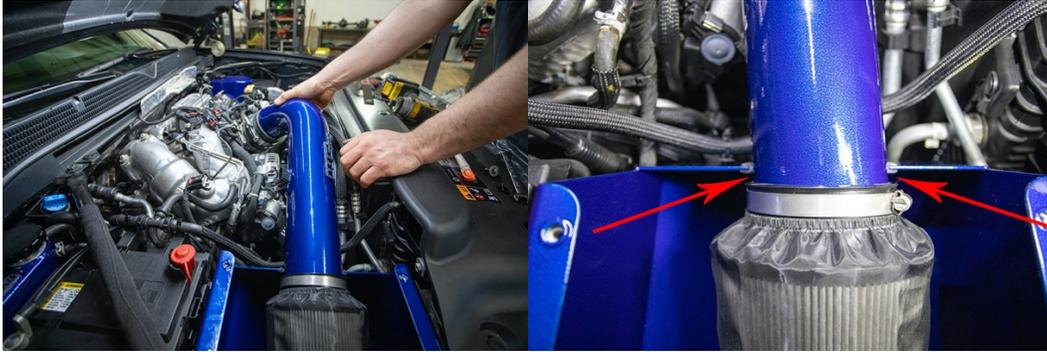
20. Remove retaining PCV hose retaining clip using a small pick or pry tool. Disconnect hose and remove OEM horn. Normally the PCV hose and clamp may be removed and reinstalled without damage. If your clamp is damaged during the removal process you may replace it with a standard hose clamp. Install O-ring using a very small amount of grease to hold in place if needed on the pipe and seals to prevent damage / nicks during installation. **Avoid using petroleum or other synthetic lubricants which may damage the o-ring seal.** Use supplied mounting hardware to install studs into turbocharger first then install horn. Use a piece of shop towel to hold nut in end of socket when installing new horn. Reconnect PCV line.



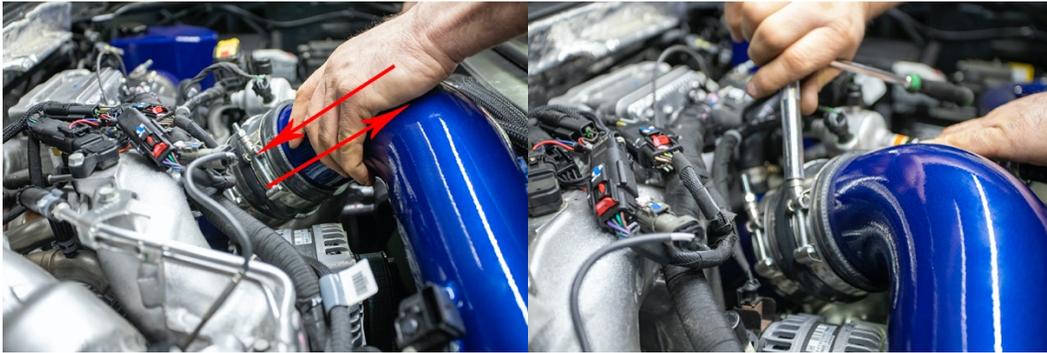
21. Install hump boot and clamps onto intake horn paying close attention to match alignment of horn lip to hump shown as indicated in image above.



22. Reinstall coolant hardline.



23. Install Intake pipe with filter assembly into hump boot at horn and adjust pipe placement and filter depth as necessary to allow a gap as shown in image above between filter and air box seal.



24. Adjust pipe depth at intake horn boot to allow proper seating of clamps to the pipe bead roll seal and then tighten assembly. Do not push pipe in past the point when you feel bead roll enter opening in hump boot.



25. Reinstall MAF sensor connector and install remaining pipe seal on upper air box lid trimming excess. Check pre-filter placement & filter clamp is tightened before proceeding to next step.



26. NOTE: When installing upper lid of your intake air box some amount of misalignment may occur between the box and lid as shown in the images above. Follow steps below to properly adjust alignment and complete your installation. Do not force screws into holes.



27. Adjust lid to align front air box mounting holes and loosely install supplied fasteners to locate the assembly.



28. With front fasteners in place, adjust lid and air box wall to align holes and install rear fasteners.



29. Tighten air box lid fasteners in a clockwise pattern starting at the front left fastener and finishing at the rear left fastener. Locate the supplied ram air hood seal. **THIS SEAL IS FOR THE BOTTOM OF YOUR HOOD RAM AIR DUCT. IT DOES NOT GET INSTALLED ONTO YOUR AIR BOX LID.**



30. Install hood seal onto bottom of ram air hood duct opening as shown.  
31. Remove remaining protective bubble wrap and clean fingerprints with damp microfiber cloth.  
32. Reconnect battery cables. Start truck and check for any leaks after some idle time.

**Maintenance:** Your new air filter is a high quality replaceable dry media filter (WCF100717) built to our specifications. We recommended OEM scheduled maintenance intervals with regular inspection. This air filter assembly is not washable, but maintenance intervals may be extended by using compressed air from the inside of the filter to blow out dirt. Once filter is dirty to the point of beginning to collapse it is time to replace. Outerwears pre-filter cover may be removed and washed with warm water & dish soap solution and allowed to air dry before re-installation.

Any Questions, Comments, or Feedback?  
Reach us by Email - [Sales@wcfab.com](mailto:Sales@wcfab.com)  
Or the shop phone - 630-277-8239  
Thank you for purchasing from Wehrli Custom Fabrication!