



2020-2024 L5P Stage 1 High Flow Intake Bundle Kit

Covers Installation of PN: WCF100410



1. First, locate the packing list included with the kit and double check you have all items on the list.
2. Leave bubble wrap on piping until install is complete to help protect finish from scratches.
3. Disconnect the negative battery cables from both batteries before starting install.

Part 1: Driver Side Intercooler Pipe

1. Remove the driver side wheel/tire and inner fender liner.



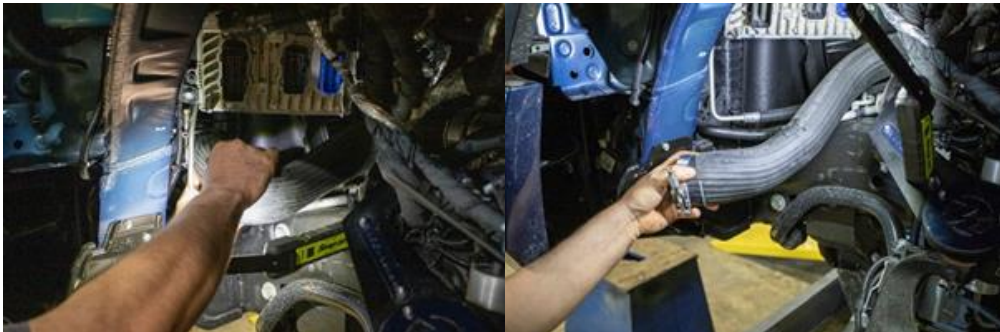
2. Disconnect the ecm wiring harness and move out of the way with bungee cords to allow access during removal and install.



3. Remove the clamp at the turbo outlet.



4. Remove the clamp at the intercooler connection utilizing an 11mm socket and extensions as shown in the image above.



5. Remove the pipe from the truck by lifting and rotating it out from the top of the engine bay.



6. Make sure the lower intercooler pipe connection is clean and install the straight boot/clamps. Only tighten the clamp on the intercooler connection, the other will remain loose until the pipe is properly positioned.



7. Install the reducer boot and clamps at the turbo connection point. Only tighten the clamp at the turbo outlet.



8. Install the new driver side pipe up through the wheel well. Trans assembly lube can be used to ease assembly of the pipe into the silicone boot connections. We specifically use the green Dr Tranny's Assemblee Goo transmission assembly lube during install.



9. Install the pipe into the boot at the intercooler connection, making sure the clamp and boot are past the bead roll on the pipe to avoid blowing the boot off.



10. Install the upper part of the pipe into the boot connection at the turbo and tighten the clamps at the turbo and intercooler connections. Make sure the pipe is properly aligned and clamps are properly positioned on the boots to avoid blowing the boot off.



11. Reconnect the ECM and wiring harness.
12. Reinstall the fender liner and driver side wheel/tire.

Part 2: Passenger Side Intercooler Pipe

1. Remove the passenger side wheel/tire and inner fender liner.



2. Unplug MAF sensor and disconnect intake pipe.
3. Unbolt airbox.
4. Remove wire harness clip and tuck safely out of the way.
5. Separate lid from airbox. Grab the lower airbox and pull up firmly to unseat the lower airbox from the inner fender.



6. Unplug charge air temp sensor on the intercooler pipe.



7. Access and locate the clip ring at the lower intercooler pipe connection through wheel well.



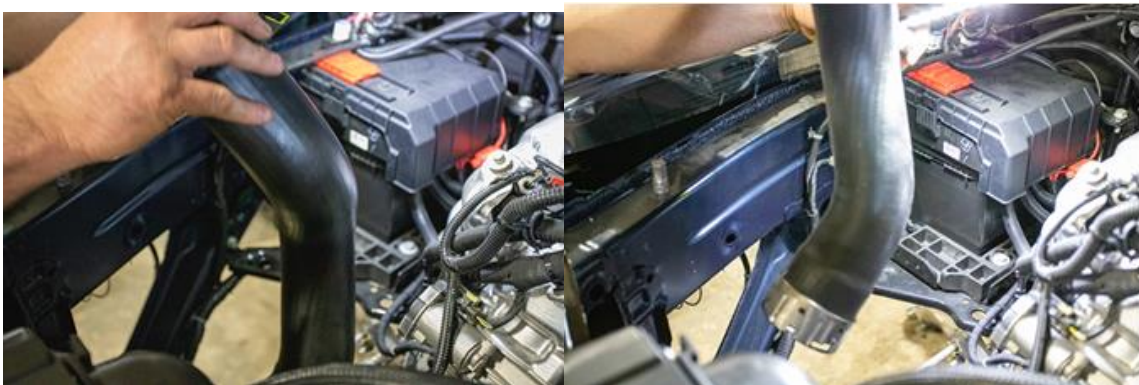
8. Using a pick or flat blade screwdriver, remove the clip at lower intercooler pipe connection and remove from the intercooler.



9. Remove clip at engine side of passenger intercooler pipe.



10. Remove pipe by passing it out carefully through passenger wheel well or through the engine bay.



11. Fully remove clip ring from lower OEM intercooler pipe connection using a pick or flat blade screwdriver if not already done.



12. Install new supplied clip ring to the new intercooler pipe assembly and adapter at engine side connection. NOTE: Pay close attention to orientation of clip ring on the new pipe as it will only properly engage the pipe and intercooler assembly one way. OEM intercooler pipe shown (top left) to display proper orientation of clip ring. It will be the same on the new pipe.



13. Swap charge air temp sensor from OEM intercooler pipe to your new 3.5" intercooler pipe using a 14 mm wrench. A very small amount of liquid Teflon thread sealant is recommended on the sensor during re-installation for a leak free seal.



14. Install o rings into the connection points for the passenger intercooler pipe: two at the engine and two at the intercooler. It is best to install them dry. *** DO NOT USE ANY LUBRICANT AT THIS TIME *** Install the two larger o rings into the adapter that goes onto the engine side connection. Install the two smaller o rings into the lower end of the intercooler pipe where it attaches on to the intercooler. When installed correctly, the o rings should be uniform and even.





15. Install the adapter onto the engine side connection. You may now use a small amount of assembly lube such as Trans-Jel or Dr.Tranny's assembly goo. You may use a small amount of dielectric grease if you are not able to locate suggested items. Avoid using petroleum or other synthetic that may damage the o ring seals.



16. Apply a thin layer of Assembly Goo to the o rings at the lower connection where you previously installed the two o rings into the pipe and a very thin layer onto the intercooler where the pipe will be installed.
17. Install the new intercooler pipe upwards carefully through the passenger side wheel opening paying attention not to damage charge air temp sensor.



18. Install the lower end of the pipe onto the intercooler. You must keep the pipe aligned properly with the intercooler and gently rotate the pipe while pushing in with firm pressure. As the pipe is rotating, you will feel it bottom out and the clip will be fully seated. If the clip is not fully seated, you need to try and rotate with pressure until seated. If you can't get it fully seated, remove and inspect the clip for proper orientation and make sure you haven't damaged the o rings during install. When finished, the intercooler pipe will be as pictured.



19. Using the supplied boot and clamps, apply a thin layer of assembly goo into both ends of the boot. You may hold it in between the intercooler pipe and adapter at the engine as pictured.



20. Rotate the intercooler pipe to the engine as seen and it will slide right into place.



21. Now loosely install the clamps and align boot with pipe for proper placement. This should be even on both ends and allow enough room to clamp properly.



22. Tighten both clamps.
23. Remove bubble wrap from piping and clean any fingerprints with damp microfiber cloth.
24. Reconnect charge air temp sensor and reinstall air box assembly by reversing removal steps outlined above.

25. Reinstall passenger fender liner and wheel/tire.
26. At this point, boost testing is recommended to ensure leak free connections.
27. Reconnect battery cables.
28. Start the truck and check for any leaks after some idle time.

Any Questions, Comments, or Feedback?

Reach us by Email- Sales@wcfab.com

Or the shop phone- 630-277-8239

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