



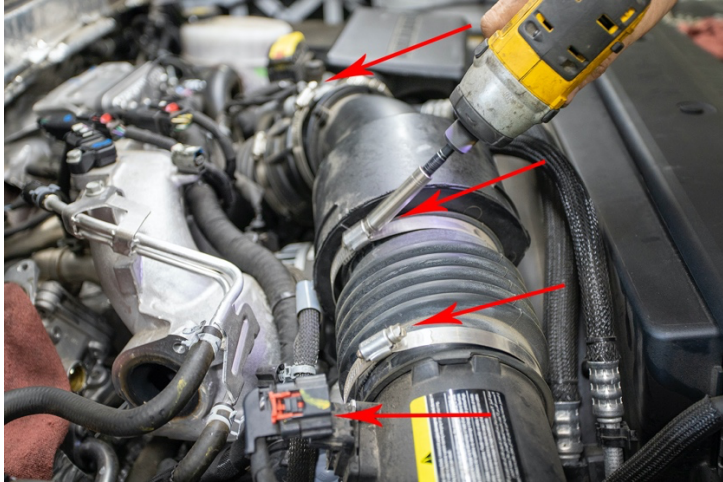
## **2017-2019 L5P Duramax 3.5" Passenger Side Intercooler Pipe**

Covers installation of PN: WCF100530

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 nicks and scratches.
3. Disconnect the negative battery cables from both batteries.



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



5. Unplug MAF Sensor and disconnect intake pipe



6. Unbolt Airbox



7. Remove Wire Harness Clip and tuck safely out of the way.

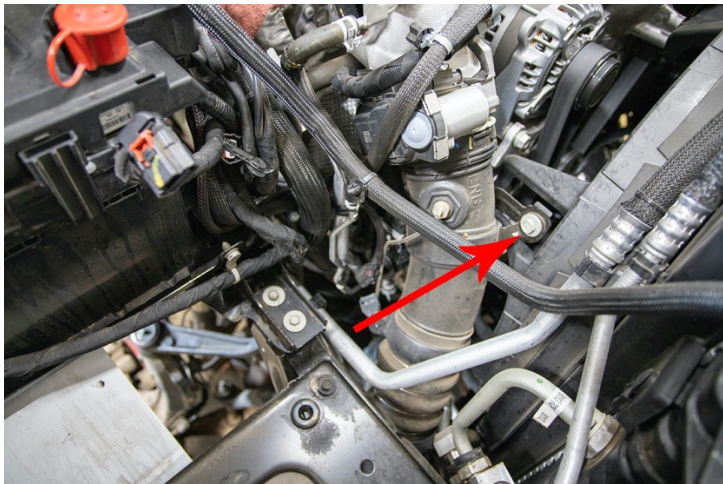




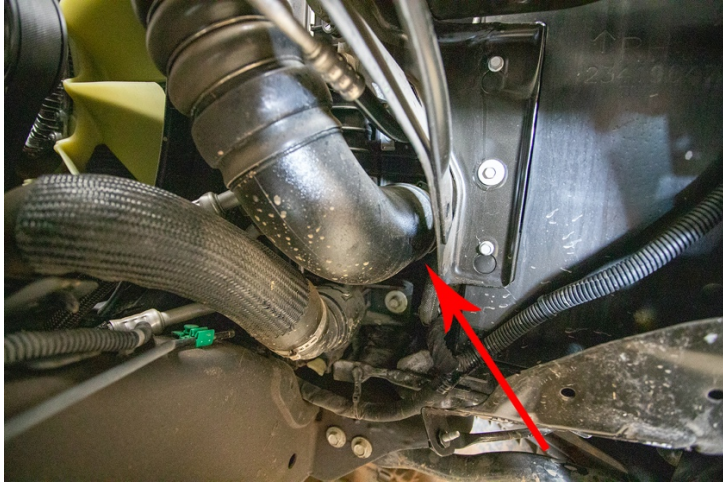
8. Separate Lid from Airbox. Grab Lower Airbox and pull up firmly to unseat the lower airbox from the inner fender.



9. Unplug Charge Air Temp Sensor on Intercooler Pipe.



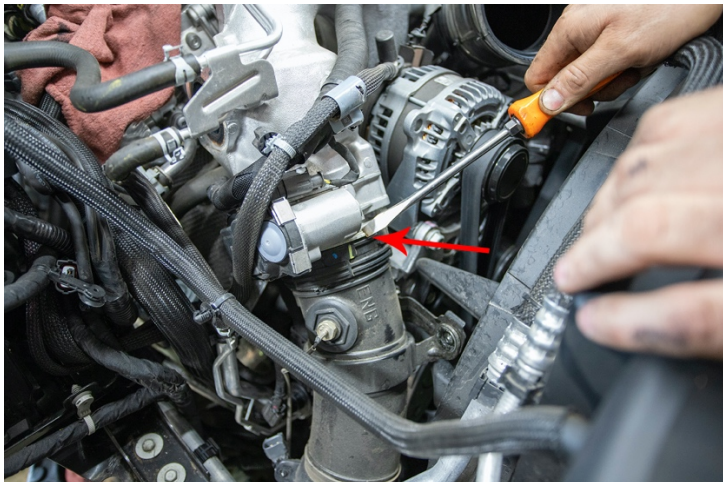
10. Remove Bracket Bolts from the intercooler pipe.



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

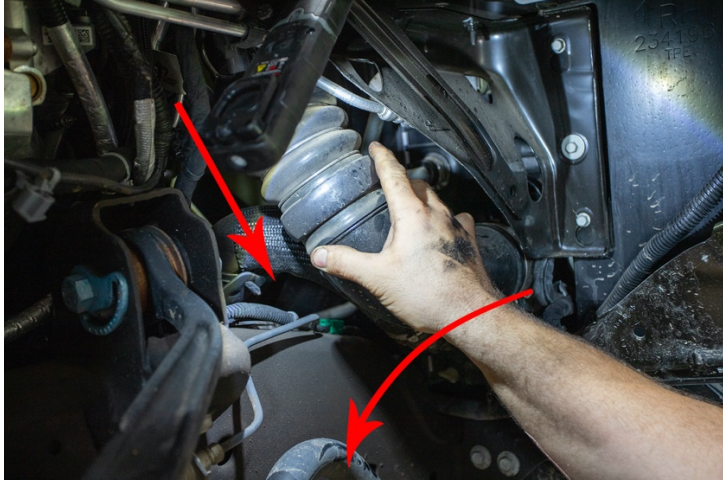


12. Using a pick or flat blade screwdriver, remove clip at lower intercooler pipe connection and pop pipe off of intercooler.



13. Turn lock ring clockwise to remove top connection to engine and slide pipe off of intake flange.





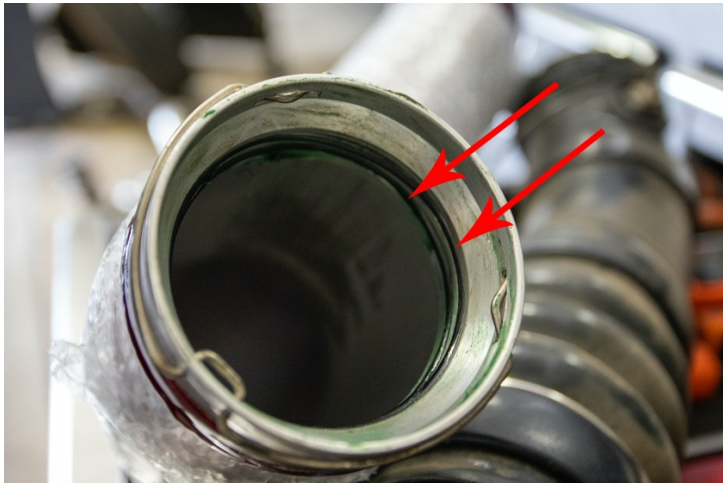
14. Remove pipe by passing it out carefully through passenger wheel well.



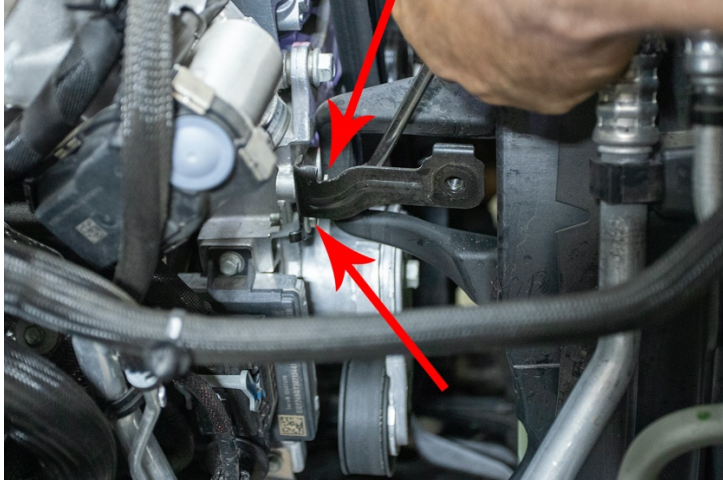
15. Install new clip ring to the new intercooler pipe assembly. **NOTE: Pay close attention to orientation of clip ring on the new pipe as it will only properly engage the pipe and intercooler assembly one way. One groove in the pipe is smaller than the other two.**



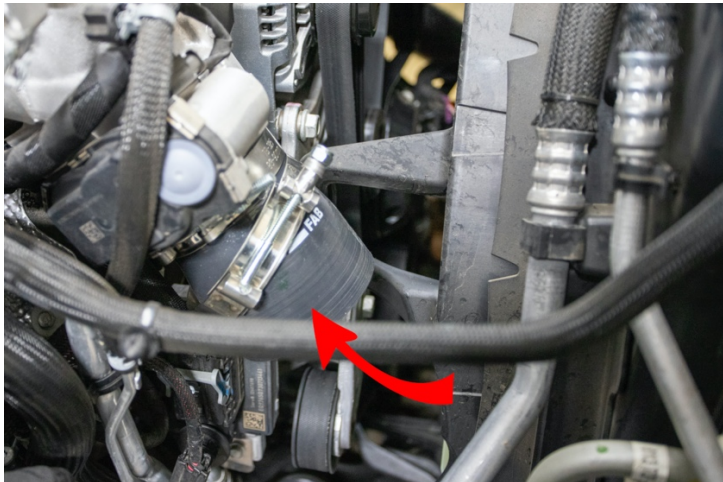
16. Swap charge air temp sensor from OEM intercooler pipe to your new 3.5" intercooler pipe using a pry tool to remove wire harness clip and a 14 mm wrench. Liquid Teflon thread sealant is recommended on the sensor during re-installation for a leak free seal.



17. Install 2 o-rings, dry, in lower grooves as shown. Once o-rings are fully seated, apply transmission assembly lube (such as Trans-Jel or Dr. Tranny's Assemblee Goo) to inside of pipe connection, o-rings, and intercooler outlet to help prevent damage during install. **Avoid using petroleum or other synthetic lubricants which may damage o-ring seals. Products such as engine oil, transmission fluid, WD-40 and dielectric grease may not allow enough lubrication to slip the intercooler pipe into place.**



18. Remove OEM Intercooler support bracket from engine as it is no longer required.

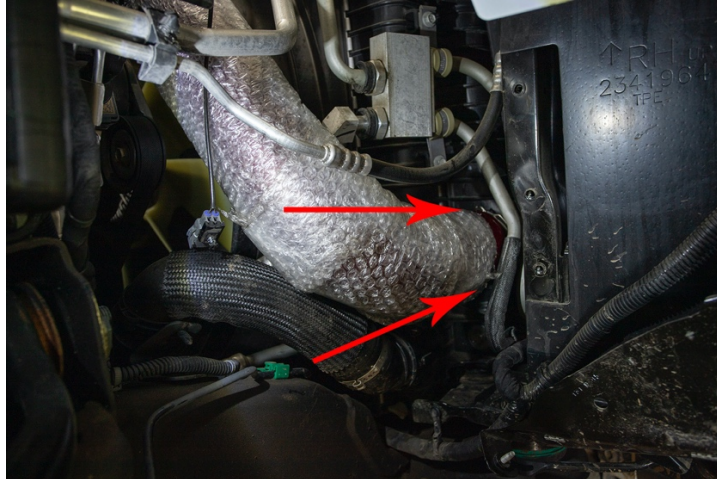


19. Install top boot and clamps onto the engine intake side and leave loose.

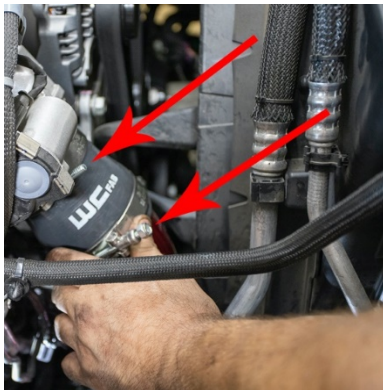


20. Install new intercooler pipe upwards carefully through passenger side wheel opening paying attention not to damage charge air temp sensor.





21. Start with the lower part of the intercooler pipe and fully seat the clip ring so that it is engaged / down all the way. Adjust pipe at upper connection as necessary once lower clip is seated. Lower airbox brackets have been removed for illustration purposes. It is not necessary for installation but can provide additional workspace if needed for accessing the clip assembly. To help with seating the lower connection point, apply firm pressure while rotating the pipe. As it is rotating, you will feel it bottom out and the clip will be fully 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.



22. Once the lower connection is secure, use the supplied boot and clamps and apply a thin layer of assembly goo into both ends of the boot to ease installation. You may hold it in between the intercooler pipe and adapter at the engine as pictured.
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 Fender Liner and passenger wheel/tire.
26. Reconnect battery cables.



27. Start truck and check for any leaks after some idle time. Boost testing is recommended after installation and service of this part.

Any Questions, Comments, or Feedback?

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Or the shop phone- 630-277-8239

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