



2011-2016 LML DURAMAX 4" INTAKE KIT WITH AIR BOX STAGE 2

Covers installation of PN: WCF100304

(Before any installation of parts please verify you have received all parts on your packing list)



1. Disconnect Batteries (Negative terminals on both).
2. Remove the airbox lid & tube.



3. Remove the resonator from the turbo inlet by removing two 10mm bolts on resonator.



4. Remove the MAP sensor connector, intake air valve connector, grid heater connectors & battery cable from grid heater using a 10 mm socket.



5. Remove the passenger side intercooler pipe connection at the intake air valve by rotating the locking ring at the intake air valve counterclockwise slightly while pulling the pipe towards the front of the truck with a flat head screwdriver for assistance.

Note: The intercooler pipe will rotate out of the way. No need to remove lower connection for the installation of this part.



6. Loosen the four 10mm bolts on the intake air valve & remove from the truck.



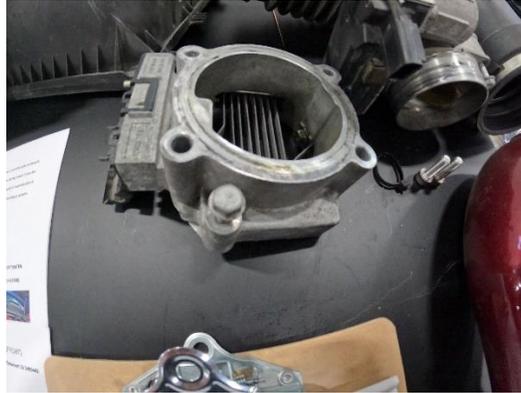
7. Remove two 13mm bolts from the bracket on the passenger side near engine oil dipstick. You may now remove the other two 13mm bolts from the flange at the engine side of the crossover pipe.



8. Remove the factory crossover pipe.



9. Remove grid heater from truck by removing the last 10mm bolt on the bottom left corner.



10. Remove EGR pipe (bypass) that runs above cooler from EGR valve by Loosening the bottom bolts for support. Remove dip stick & crossover support bracket if needed.



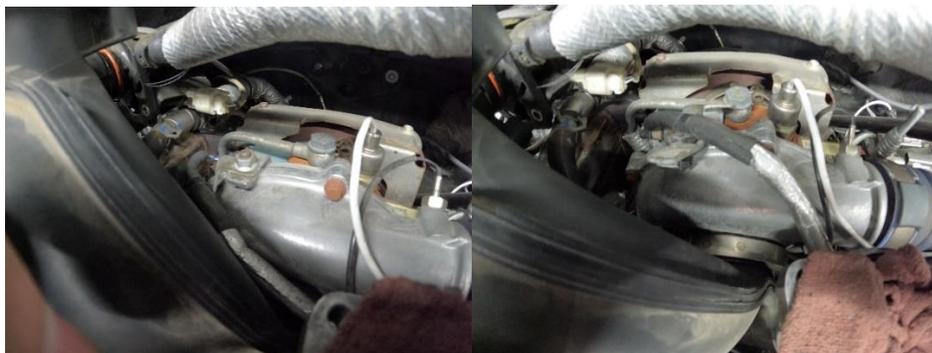
11. Remove pipe from truck.



12. Remove two 10mm bolts from PCV to factory intake horn & disconnect connectors attached to bracket.



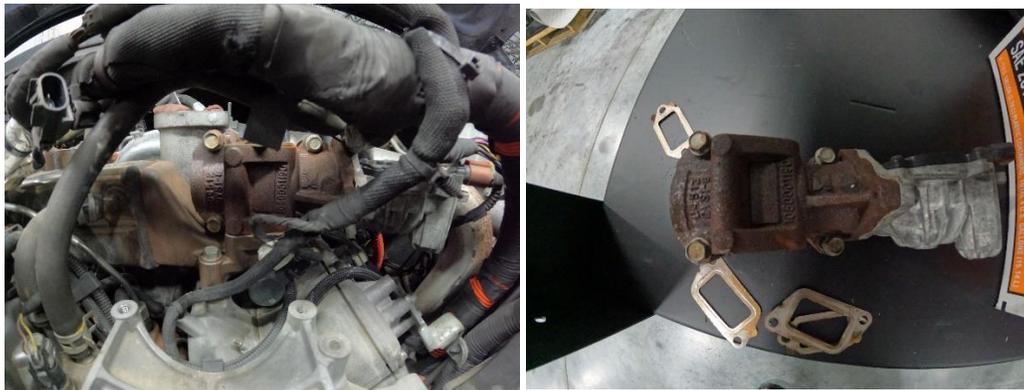
13. Loosen 13mm nut on turbo to allow solenoid wiring to move for access to horn clamp.



14. Loosen intake clamp & remove stock intake horn.



15. Disconnect EGR valve electrical connectors & four 13mm bolts to y-bridge to remove valve.



16. Remove mounting bolts for front EGR cooler as shown in picture (12mm & 13mm bolts).

Note: Fully removing alternator for access to front bolts may not be required if using ¼" swivel socket.



17. Remove hoses from front and rear section of front EGR cooler and remove from truck.



18. Install intake horn using supplied clamp. To ease install, use socket & extension to hold the clamp while turbo inlet is being placed into position.



19. Route EGR cooler hose under intake horn.



20. Place EGR cooler into position. **Do not start mounting bolts yet, just leave them in the appropriate holes.**



21. Install coolant hose into back side of EGR cooler, then install new EGR gasket from front section to rear section & tighten bolts to **18 LB FT.**



22. Install front EGR mount bolts & torque to **18 LB FT** and reconnect front coolant hose.



23. Install EGR valve & torque to **18 LB FT**. Verify new gaskets with old gaskets before installing them if unsure of locations to place them.

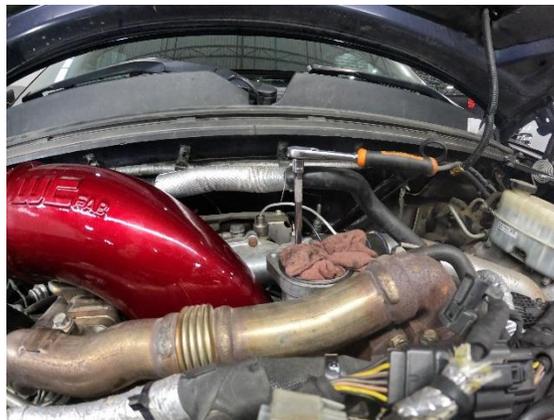


24. Install turbo vane solenoid wiring & install PCV into intake horn.



25. Install alternator & AC compressor, followed by serpentine belt.

26. Install EGR bypass pipe with new gaskets & torque to **18 LB FT**.



27. Install crossover pipe & reattach wiring to grid heater, MAP sensor, & intake air valve.

Torque crossover at y-bridge to **18 LB FT** then torque air valve at crossover to **89 IN LB**.



28. Due to size increase of intake horn, the temp sensor bracket for the connectors can be zip tied up to wire harness on firewall or to heater hose, but either way is fine.



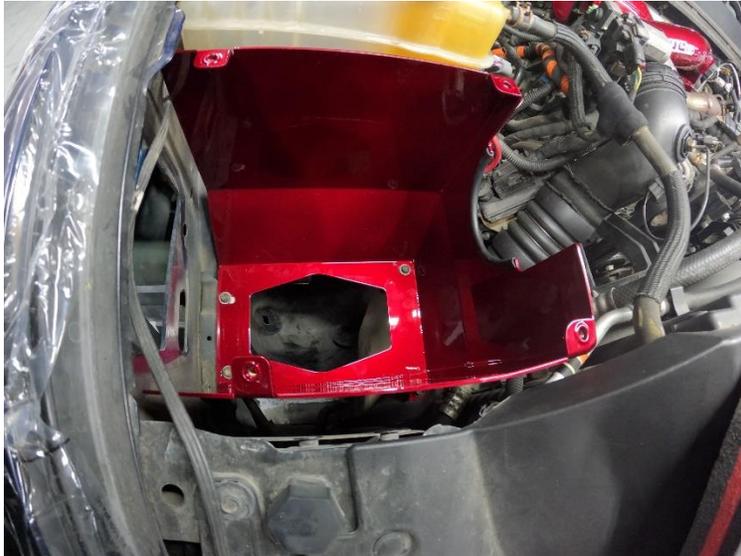
29. Remove air box base.



30. Remove plate for air box.



31. Install new air box using factory hardware.



32. Install boot & clamp onto intake horn.



33. Transfer MAF and humidity sensor (if equipped with one) into WCFab Intake Pipe and make sure sensor is closest to the intake horn or it may throw codes due to air flow in wrong direction. If you don't have a humidity sensor, use supplied block off plate.



34. Place air filter in box & install pipe into boot first & air filter second before tightening clamps down. Once clamps are tight, plug in the MAF & CAC Temp Sensors.



35. Install lid & hand tighten the screws.



36. Reconnect batteries, start the engine and check for any leaks throughout new piping.

37. Test drive and verify proper operation.

Any Questions, Comments, or Feedback?

Reach us by Email- Sales@wcfab.com

Or the shop phone- 630-277-8239

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