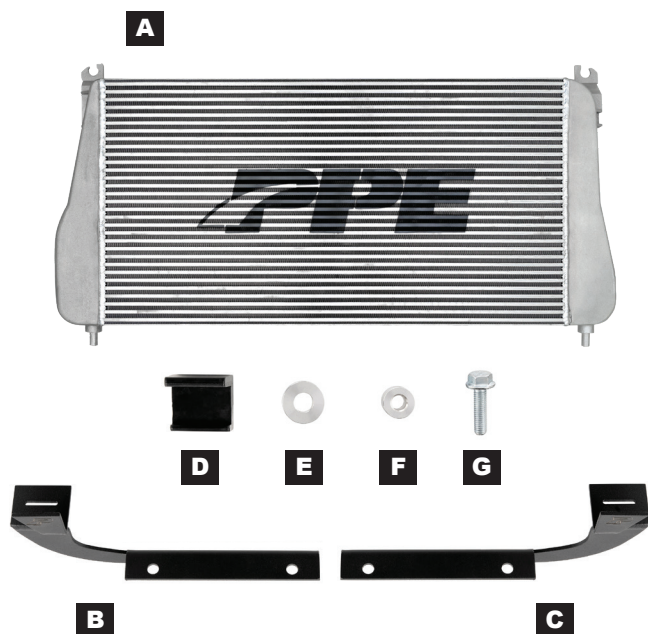


## **High Flow Performance Intercooler**

***2006-2010 GM 6.6L Duramax LBZ LMM***

***(115041100)***

***Installation Guide***



## CONTENTS:

- A. (1) Intercooler
- B. (1) LH, AC Support Bracket
- C. (1) RH, AC Support Bracket
- D. (2) U-Shaped Rubber, AC Support
- E. (2) Flat Washer, Aluminum, 26 x 3.4
- F. (2) Spacer, Aluminum, 19 x 9
- G. (4) Flange Bolt, M8-1.25 x 30

## INSTALLATION:

1. Vehicle off and cool.  
Disconnect both batteries if equipped.
2. Remove both passenger and driver's side front wheels and fender liners.
3. From the bottom of the vehicle, remove the engine skid plate.
4. Disconnect the lower radiator hose and drain the radiator.  
**(Fig. 1)**



5. Disconnect the upper radiator hose from the radiator and move it out of the way. **(Fig. 2)**
6. Disconnect the MAF sensor then remove the air box from the vehicle.
7. On the passenger side, disconnect and remove the cold side intercooler charge pipe.
8. On the driver side, disconnect and remove the hot side intercooler charge pipe.



9. Uninstall the fan control module from the fan shroud and move it out of the way.
10. Remove the clips to separate the upper radiator shroud from the lower radiator shroud, then lift to remove the upper radiator shroud. **(Fig. 3)**



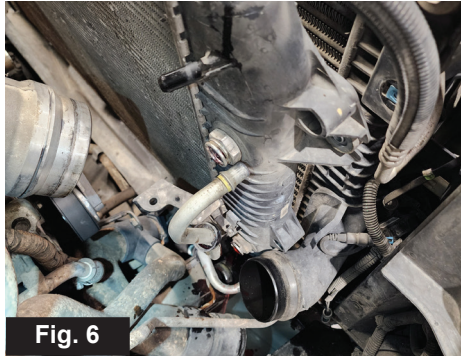
11. Remove the radiator fan from the vehicle. **(Fig. 4)**



12. Disconnect the coolant overflow hose from the radiator. **(Fig. 5)**



13. Disconnect the two transmission lines from the radiator. **(Fig. 6)**



14. Uninstall the bolts securing the grill to the radiator support then carefully remove the grill. **(Fig. 7)**



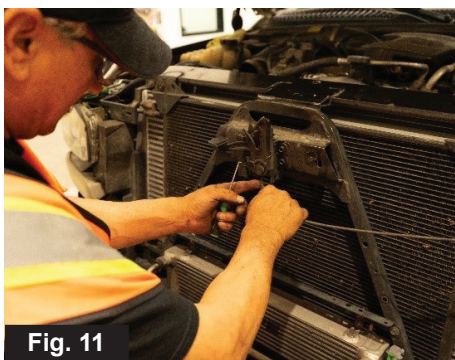
15. Remove both headlights completely from the vehicle by uninstalling the bolts and disconnecting the wiring harnesses. **(Fig. 8 & 9)**



16. Uninstall the bolts then remove the passenger and driver's side air diverter from the vehicle. **(Fig. 10)**



17. Disconnect any electrical connectors from the radiator support A-Frame.
18. Disconnect the hood release cable. **(Fig. 11)**



19. Uninstall the bolts securing the transmission cooler to the radiator support A-Frame. **(Fig. 12)**



20. Uninstall the lower and upper bolts then remove the radiator support A-Frame assembly. (Fig. 13, 14, & 15)



**Fig. 13**

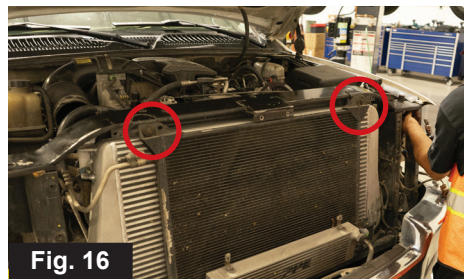


**Fig. 14**



**Fig. 15**

21. Uninstall the two bolts securing the AC condenser to the radiator support. (Fig. 16)



**Fig. 16**

22. Uninstall the bolts securing the intercooler to the radiator support beam. (**Fig. 17**)



23. On the driver side, uninstall the bolt securing cross member to the radiator support beam and loosen the bolt on the frame. Swing the cross member out of the way then remove the radiator support beam. (**Fig. 18**)



24. Uninstall the bolts to separate the radiator from the intercooler then lift to remove the radiator. (**Fig. 19**)

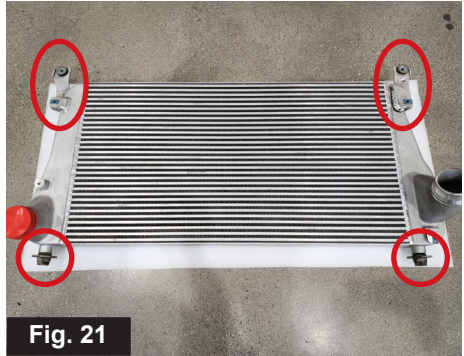


25. Lift to remove the intercooler. (**Fig. 20**)



26. Transfer the speed nuts and grommets from the factory intercooler to the Intercooler **(A)**. **(Fig. 21)**

27. Install the radiator onto the Intercooler **(A)** with the provided M8 Flange Bolt **(G)**.



28. Use a pry bar to rock both AC condenser brackets until the lower ac brackets break away from the frame. **(Fig. 22)**

29. If necessary, reposition the lower radiator shroud then install the intercooler and radiator assembly into the grommets.



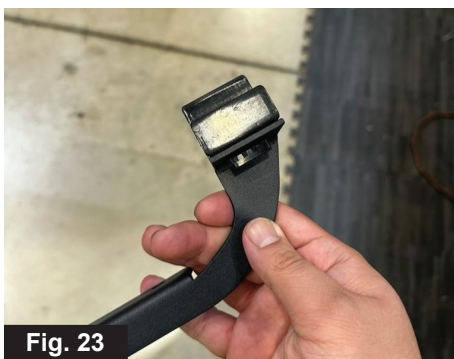
30. Reinstall the radiator support beam and secure the cross member.

31. Use the supplied Spacer **(F)** and bolts on both side in between the radiator support and the rubber grommets to install the intercooler.

32. Reconnect the transmission lines and coolant overflow hose to the radiator.

33. Reinstall the upper fan shroud onto the lower fan shroud and reinstall the control module. Reinstall the radiator fan.

34. Reconnect the upper and lower radiator hoses.
35. Reinstall the driver and passenger side intercooler pipes.
36. Install both U-Shaped AC Support Rubber (**D**) onto the LH & RH AC Support Bracket (**B & C**). (**Fig. 23**)

**Fig. 23**

37. Place the LH & RH AC Support Bracket (**B & C**) on top of the radiator support A-Frame lower bracket and reinstall the bolts. The logos should be facing towards the front. (**Fig. 24**)
38. Place the factory AC Condenser on top of both the U-Shaped AC Support Rubber (**D**). Install the bolts securing the AC Condenser to the upper radiator support, use the supplied Flat Washers (**E**) on each side in between the grommet and the radiator support.
39. Reinstall the front transmission cooler to the radiator support A-Frame.

**Fig. 24**

40. (Optional Step) Trim the plastic air diverter that is blocking airflow to the intercooler core. Reinstall the plastic air diverter. **(Fig. 25, 26, & 27)**
41. Reinstall the headlights and all electrical connectors disconnected during disassembly.
42. Reinstall the grill.
43. Reinstall the engine skid plate.
44. Reinstall both passenger and driver side front wheels and fender liners. Reconnect the batteries.



**Installation Complete**

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