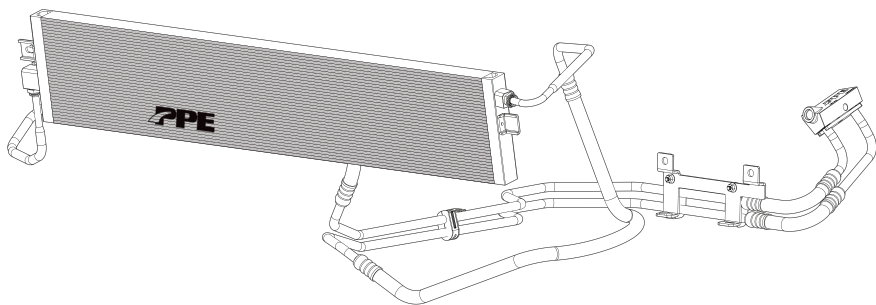
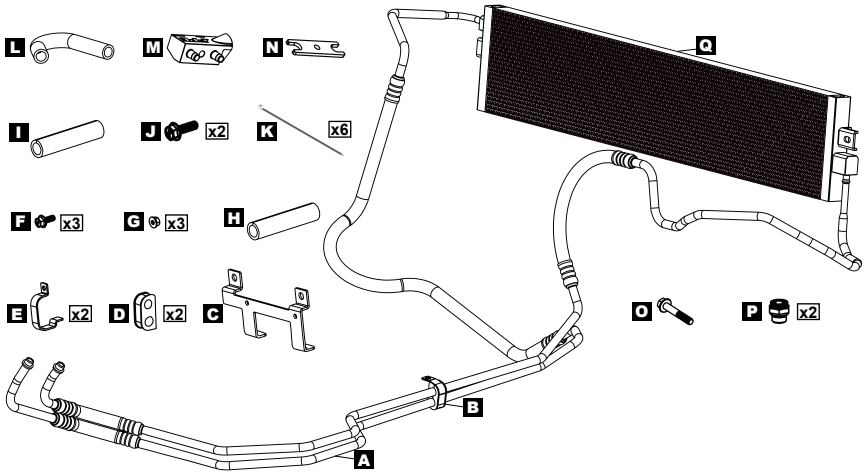




Auxiliary Transmission Cooler Kit

2019-2026 GM 1500 2.7L TurboMax



CONTENT

- | | |
|---------------------------------------|----------------------------------|
| A. Transmission Line Assembly (1) | J. M6-1.0x20mm Bolt (2) |
| B. Clamp And Isolator (Pre-Installed) | K. Zip Ties (6) |
| C. Bell Housing Bracket (1) | L. Coolant J Hose (1) |
| D. Line Isolator (2) | M. Transmission Bypass Block (1) |
| E. Sheet Metal Clamp (2) | N. Transmission Line Bracket (1) |
| F. M6-1.0x16mm Bolt (3) | O. M8-1.25x50 Flange Bolt (1) |
| G. M6-1.0 Nut (3) | P. Quick Connect Fitting (2) |
| H. Sleeve 1 (1) | Q. Transmission Cooler (1) |
| I. Sleeve 2 (1) | |



**INSTALLATION
VIDEO**



**PRODUCT
RESOURCES**

INSTALLATION

1. Install the front mounted transmission cooler along with the supplied quick connect fittings. Follow the instructions for part number 124067000.

Prior to installing the fittings onto the cooler, make sure to lubricate the internal and external O-rings of the fitting with silicone-based lubricant or transmission fluid, and the threads of the fitting with anti-seize compound to prevent metal galling.

2. Remove the passenger side front wheel and fender liner. **(Fig. 1)**



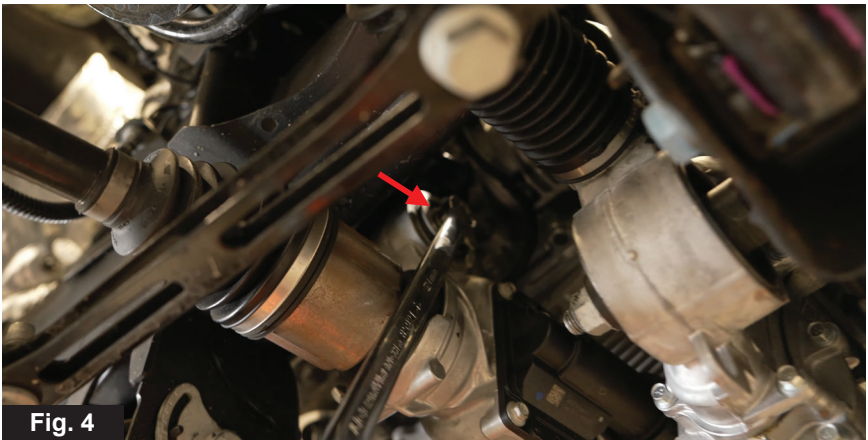
3. Remove the engine oil filter, found next to the oil pan. **(Fig. 2)**



4. Loosen the front sway bar bolts and lower the sway bar. **(Fig. 3)**



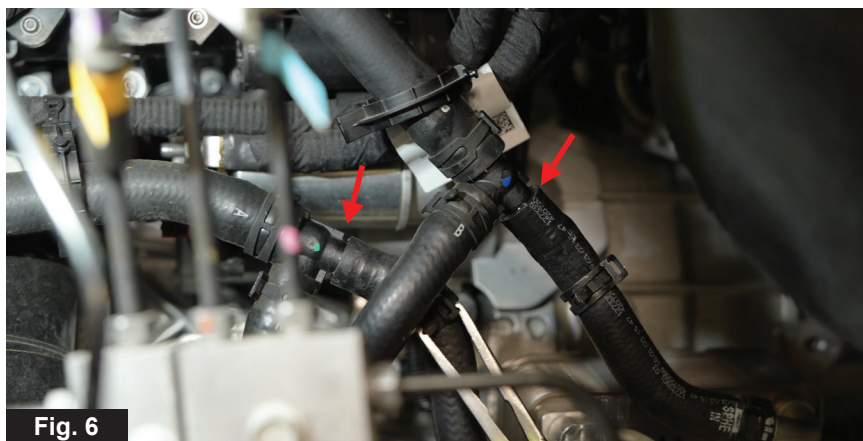
5. Remove the passenger-side front differential bolt and lower the differential. **(Fig. 4)**



6. Remove the bolt securing the transmission fluid inlet/outlet block on the driver side transmission housing. **(Fig. 5)**



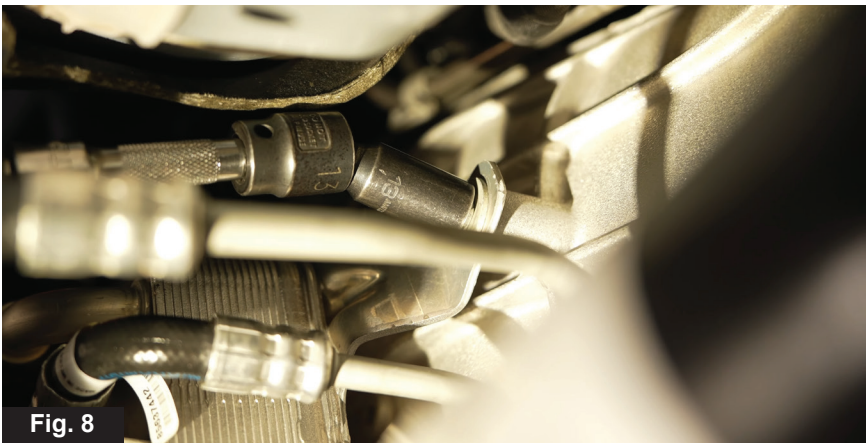
7. Locate the coolant hose tee connections near the oil cooler. Remove the right-side clamp on each tee, and pinch off the left-side hoses of both tee connections. **(Fig. 6)**



8. Disconnect the right side hoses from both tee connections. Be careful as coolant can spill. **(Fig. 7)**



9. Loosen all three transmission heat exchanger bolts. Then remove the heat exchanger. **(Fig. 8)**



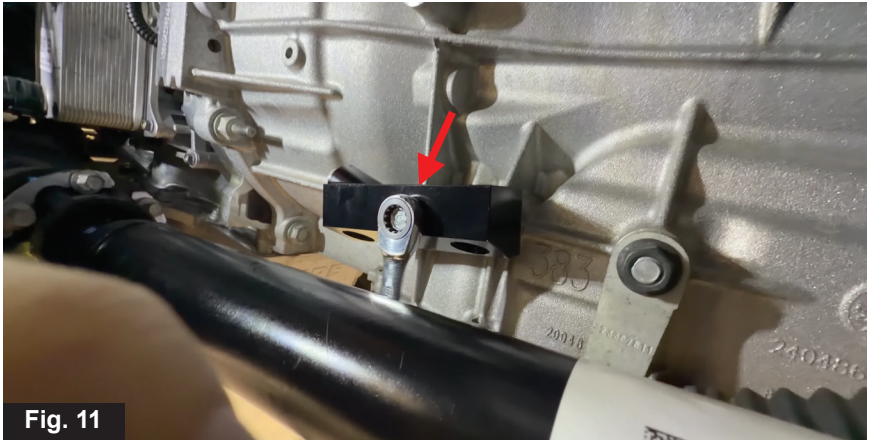
10. Install the supplied J hose (**L**) in place of the two hose connections removed in Step 8. Secure with factory spring hose clamps. (**Fig. 9**)



11. Remove the seal from the factory inlet/outlet block and transfer the seal to the PPE thermal bypass valve (**M**). Preinstall the supplied M8 x 50 mm bolt (**O**) to the valve. (**Fig. 10**)



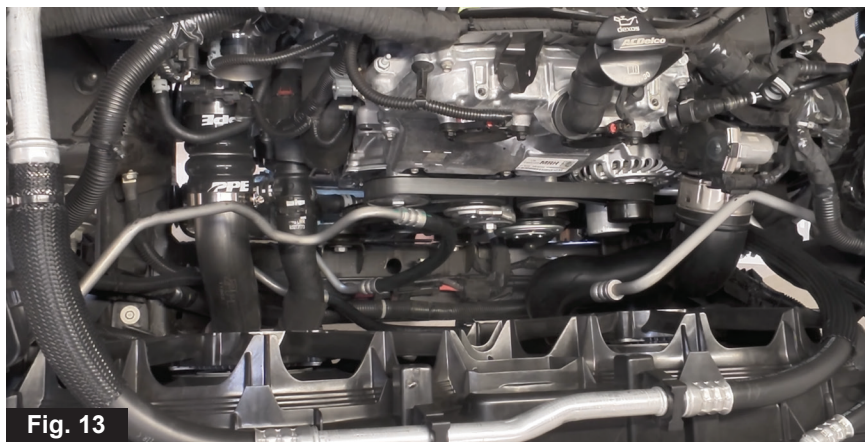
12. Install the PPE valve **(M)** with the inlets facing downward, and tighten the M8 bolt **(O)** to 13 lbs-ft. **(Fig. 11)**



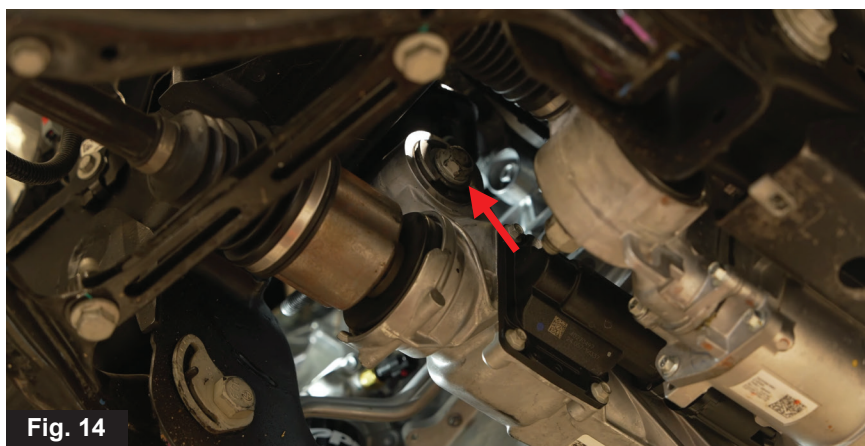
13. Feed the transmission line assembly **(A)** forward from behind the crossmember. **(Fig. 12)**



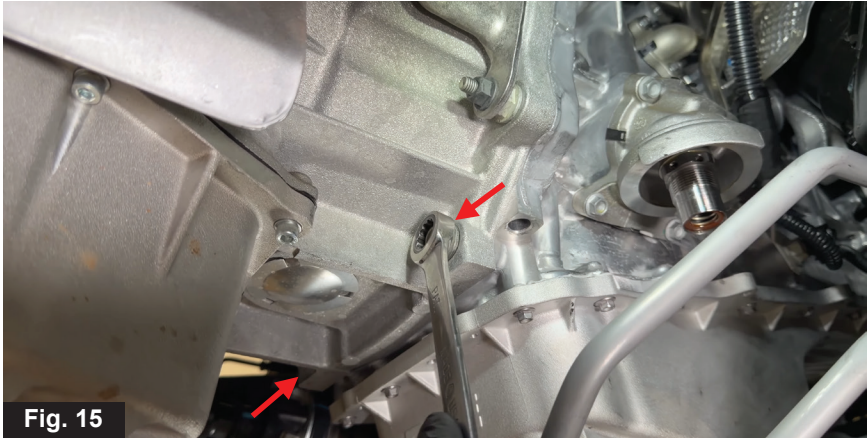
14. Pull both lines out from the engine bay through behind the fan shroud. The line with the longer soft rubber section goes to the driver side, the other line goes to the passenger side. **(Fig. 13)**



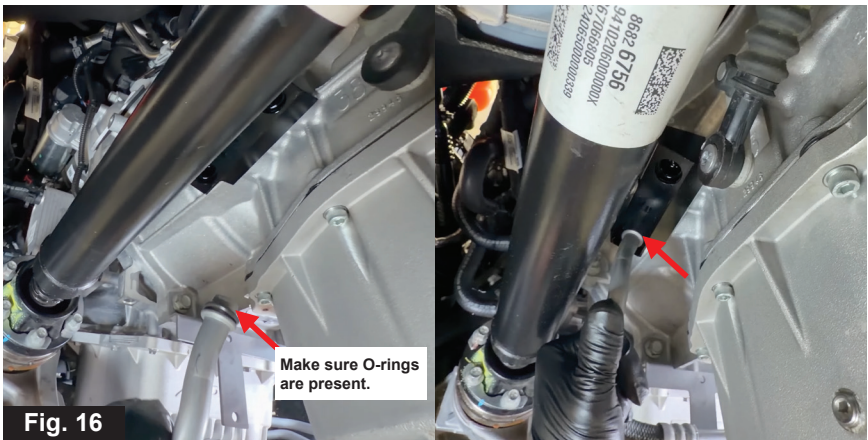
15. Reinstall the front differential bolt. **(Fig. 14)**



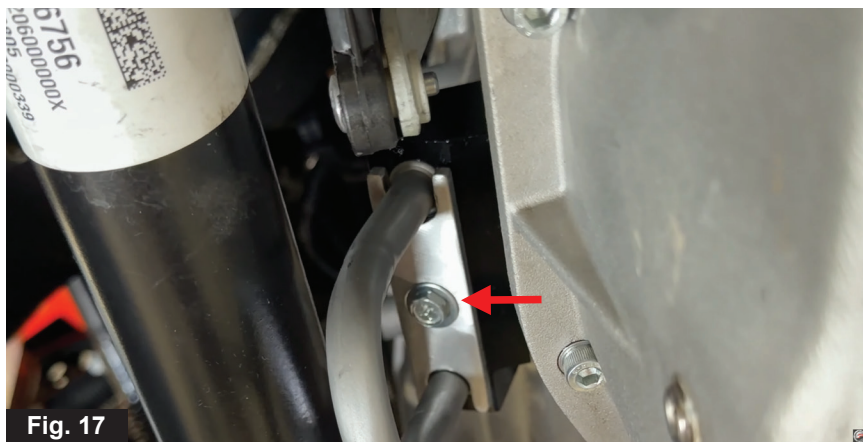
16. Remove the two bolts at the bottom of the bell housing. **(Fig. 15)**



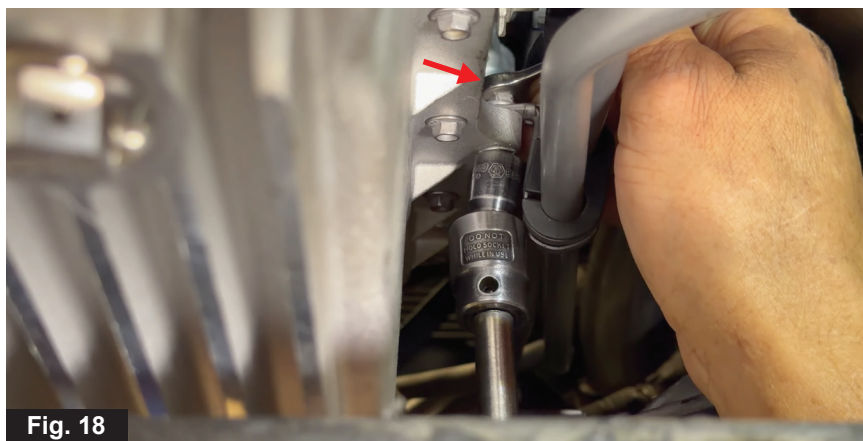
17. Insert the transmission lines **(A)** to the bypass valve **(M)** with the O-rings in place. Make sure to lubricate the O-rings with silicone-based lubricant or transmission fluid. The line with the shorter straight end goes to the front of the valve, the line with the longer straight end goes to the rear. **(Fig. 16)**



18. Secure both lines with the included transmission line bracket (**N**) and M6 x 16mm bolt (**F**). (**Fig. 17**)



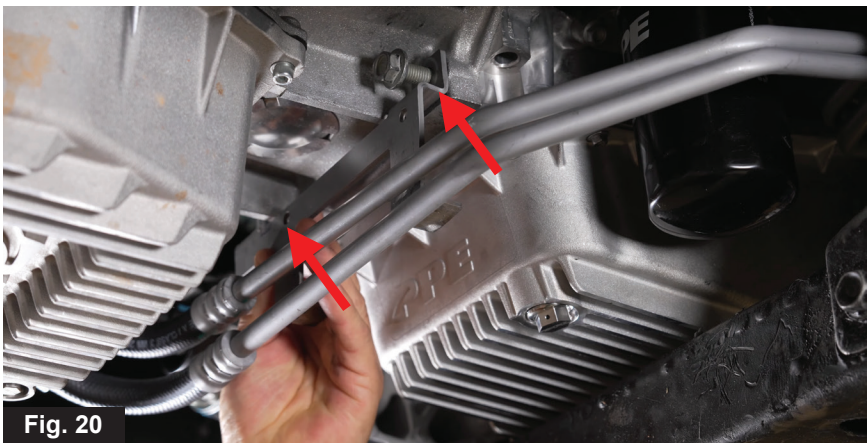
19. Secure the rubber isolator clamp (**B**) that's pre-installed to the transmission line assembly to the engine oil pan flange, with supplied M6 x 20mm bolt (**F**) and an M6 nut (**G**). (**Fig. 18**)



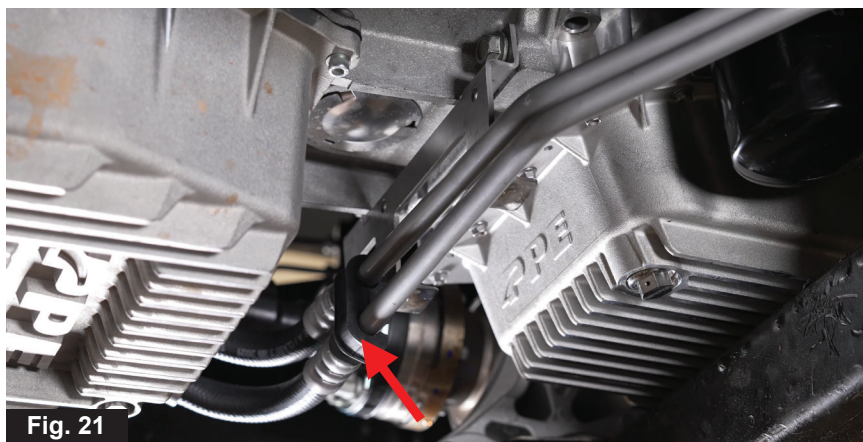
20. Reinstall the oil filter. (**Fig. 19**)



21. Install the bell housing bracket (**C**) to the bell housing, reusing the two bolts removed in Step 15. (**Fig. 20**)



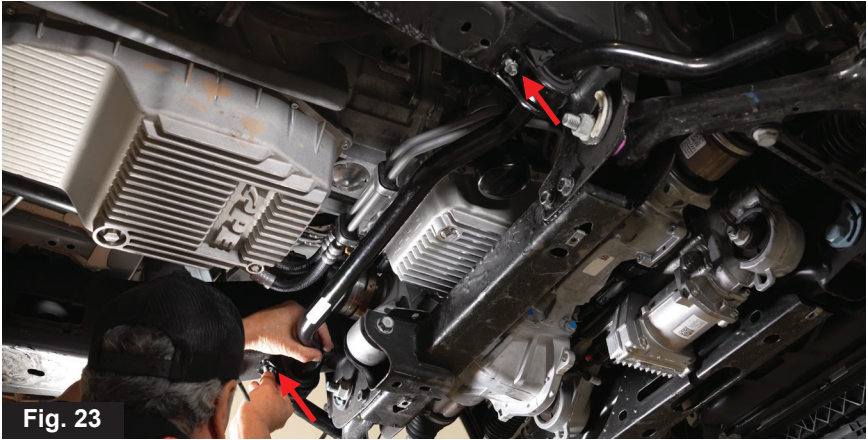
22. Install the supplied isolators (**D**) where the lines run across the bell housing bracket (**C**). (**Fig. 21**)



23. Secure the isolators (**D**) with the provided sheet metal clamps (**E**). Install each clamp to the bell housing bracket (**C**) using an M6 nut (**G**) and an M6 x 16mm bolt (**F**). (**Fig. 22**)



24. Reinstall the front sway bar. **(Fig. 23)**



25. Take a quick look at the rear section of the transmission line assembly **(A)**. This section of the lines should be secured at this point. **(Fig. 24)**



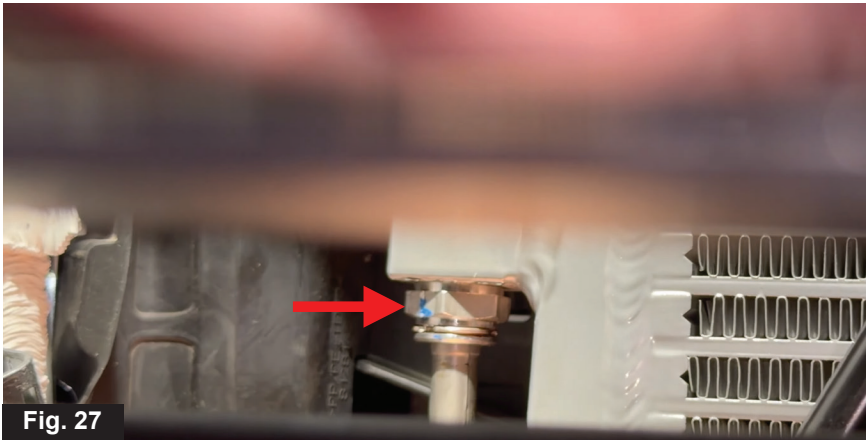
26. With a pair of scissors cut a half inch hole in the passenger side air deflector at the shown location. **(Fig. 25)**



27. Slide the supplied sleeve (I) over the front end of the passenger side transmission line. Feed the line through the hole made in the deflector. **(Fig. 26)**



28. Attach the line to the passenger side transmission cooler fitting **(P)**. Fully seat the line until you hear an audible click. **(Fig. 27)**



29. Cross the driver side transmission line **(A)** over the compartment behind the fan assembly, around the driver side of the radiator and AC condenser, into the front-end compartment behind the grille shutters. **(Fig. 28)**



30. Slide the other anti-abrasion sleeve (**I**) over the end of the line. (**Fig. 29**)



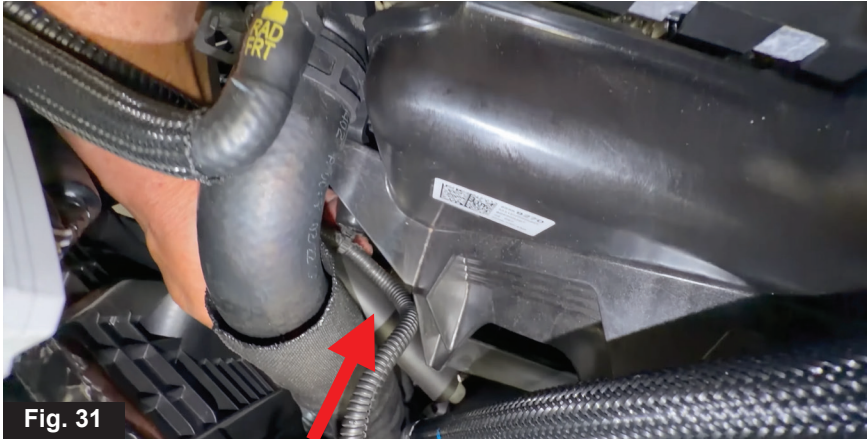
Fig. 29

31. Plug the driver side transmission line (**A**) into the transmission cooler fitting (**P**). (**Fig. 30**)



Fig. 30

32. Move the sleeve (**H**) over to where the line is close to the rear fan shroud, secure the line and sleeve to the shroud using a zip tie (**K**). (**Fig. 31**)



33. Secure the soft rubber portion of the driver-side line (**A**) to the harness loom tube with a zip tie (**K**). Make sure to not over tighten the zip tie to prevent any flow restriction or damage. (**Fig. 32**)



34. Secure the transmission line to the AC line using a zip tie (K). **(Fig. 33)**



Installation complete



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