

# ELEVATE

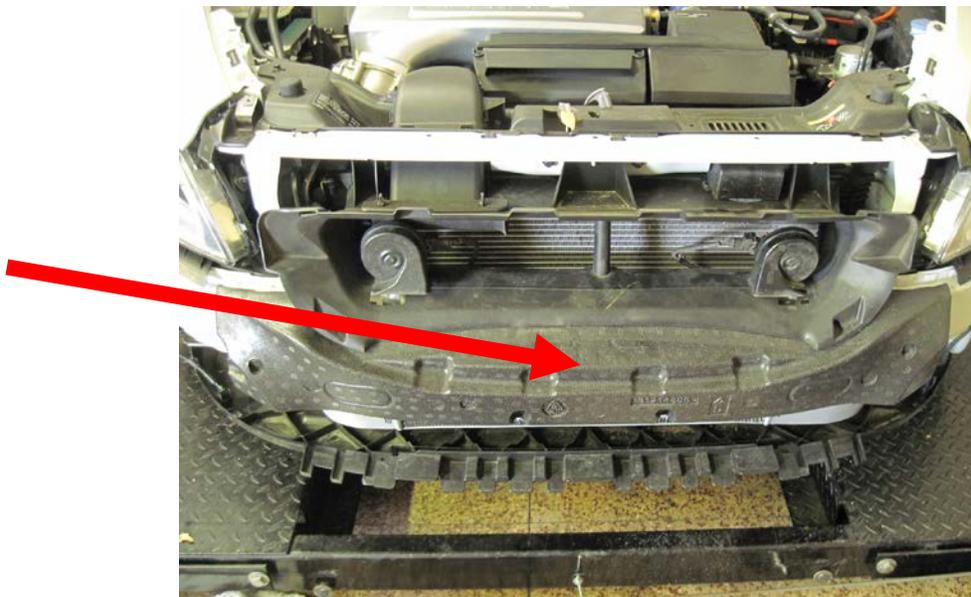
## *Volvo P1 T5 Oil Cooler*

### **Tools/supplies needed:**

- T25 Torx Driver
- T40 Torx Driver
- (2) Large Adjustable Open End Wrenches
- Flat Blade Screwdriver
- 8mm Combination Wrench and/or Socket with Ratchet
- 10mm Combination Wrench and/or Socket with Ratchet
- 11mm Combination Wrench and/or Socket with Ratchet
- Duct Tape
- Approximately 6 quarts of coolant
- 7.5 quarts of engine oil
- Oil Filter

Please completely read through these instructions to familiarize yourself with the installation. There is no cutting, drilling or other modifications required to install the ELEVATE Oil Cooler. Work in a clean environment and make sure all components are clean and free of any debris before and during installation.

1. Remove splash pan under engine compartment. Drain engine oil at the drain plug on the oil pan.
2. Remove the front bumper skin. Remove the two T25 screws on the top edges of the bumper, accessed with the hood open. Push the center button of the five clips across the top edge of the bumper. Pry out clips. Remove the four T25 screws inside the wheel well. Some models have screws on the bottom of the bumper—remove if present. If so equipped, remove the headlamp washer caps by gently pulling the caps out and unsnapping from the washer. Unsnap the bumper from its mounting brackets by pulling away at the rear edges (wheel wells) of the bumper. Pull bumper forward. Disconnect driving light harness by unclipping at the lights. Set bumper aside.
3. Remove foam bumper support by gently pulling off bumper.



3. Disconnect horn wires at the horns. Remove Air Intake Cover by unsnapping four clips. Remove plastic shroud and horns.

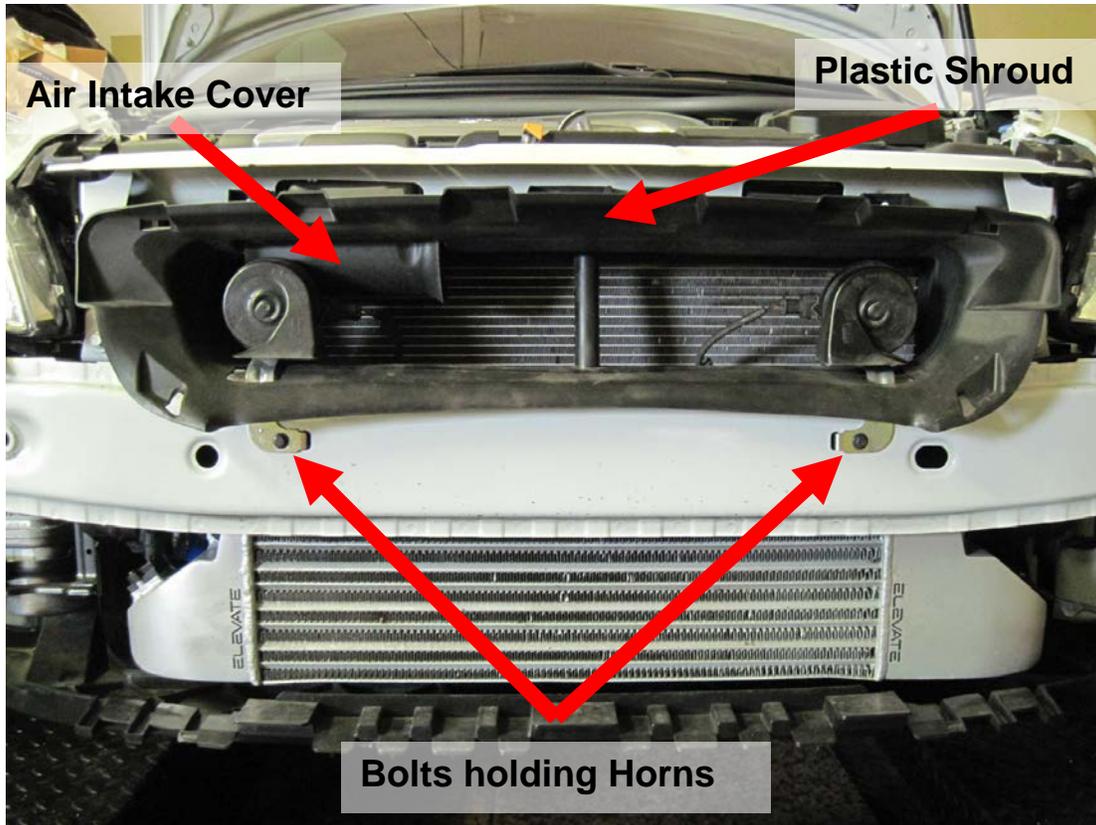
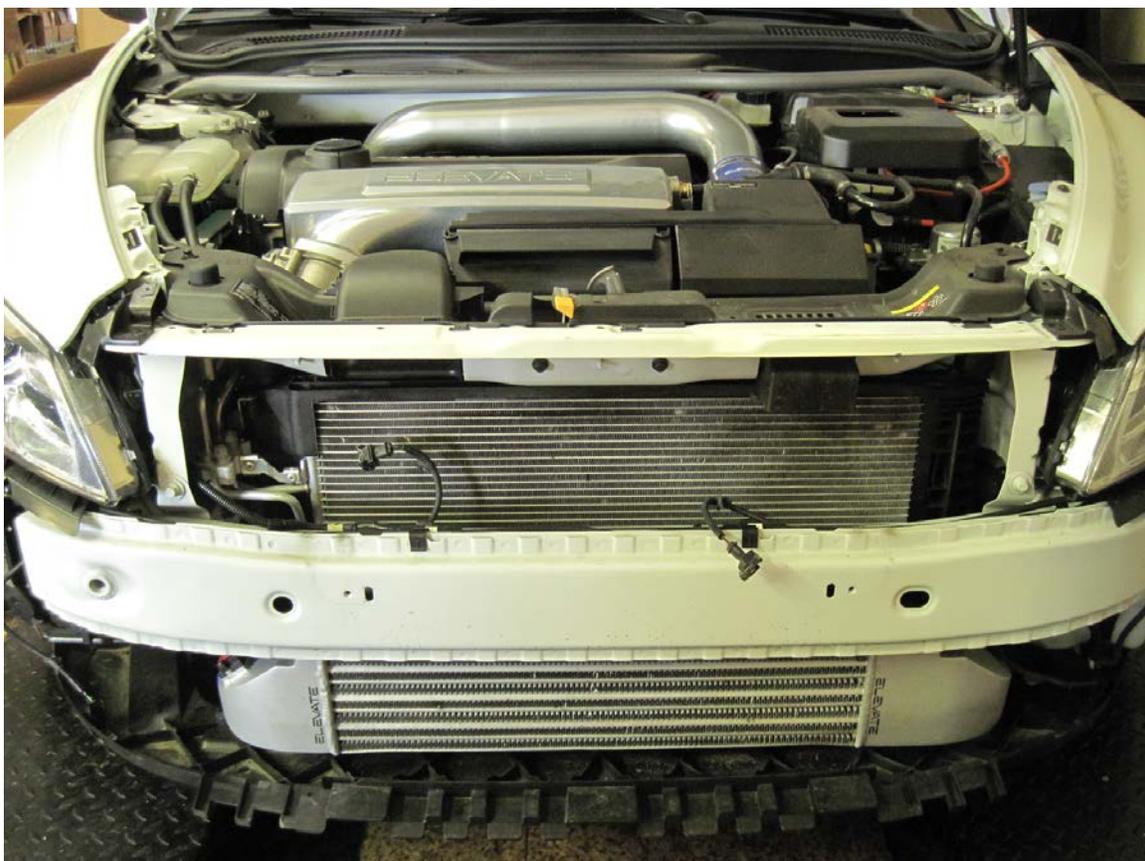
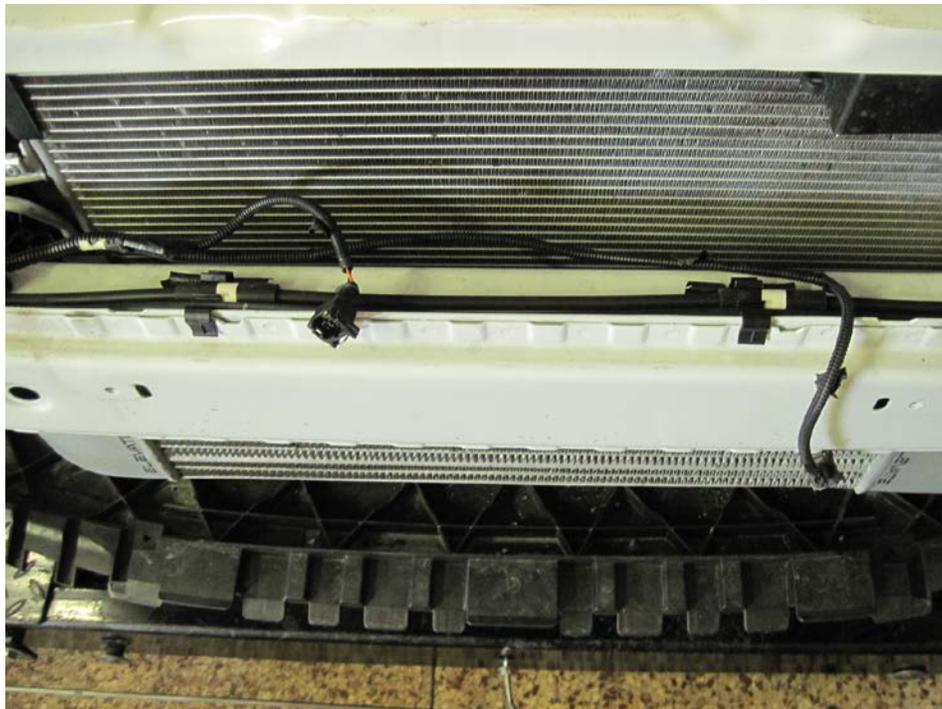


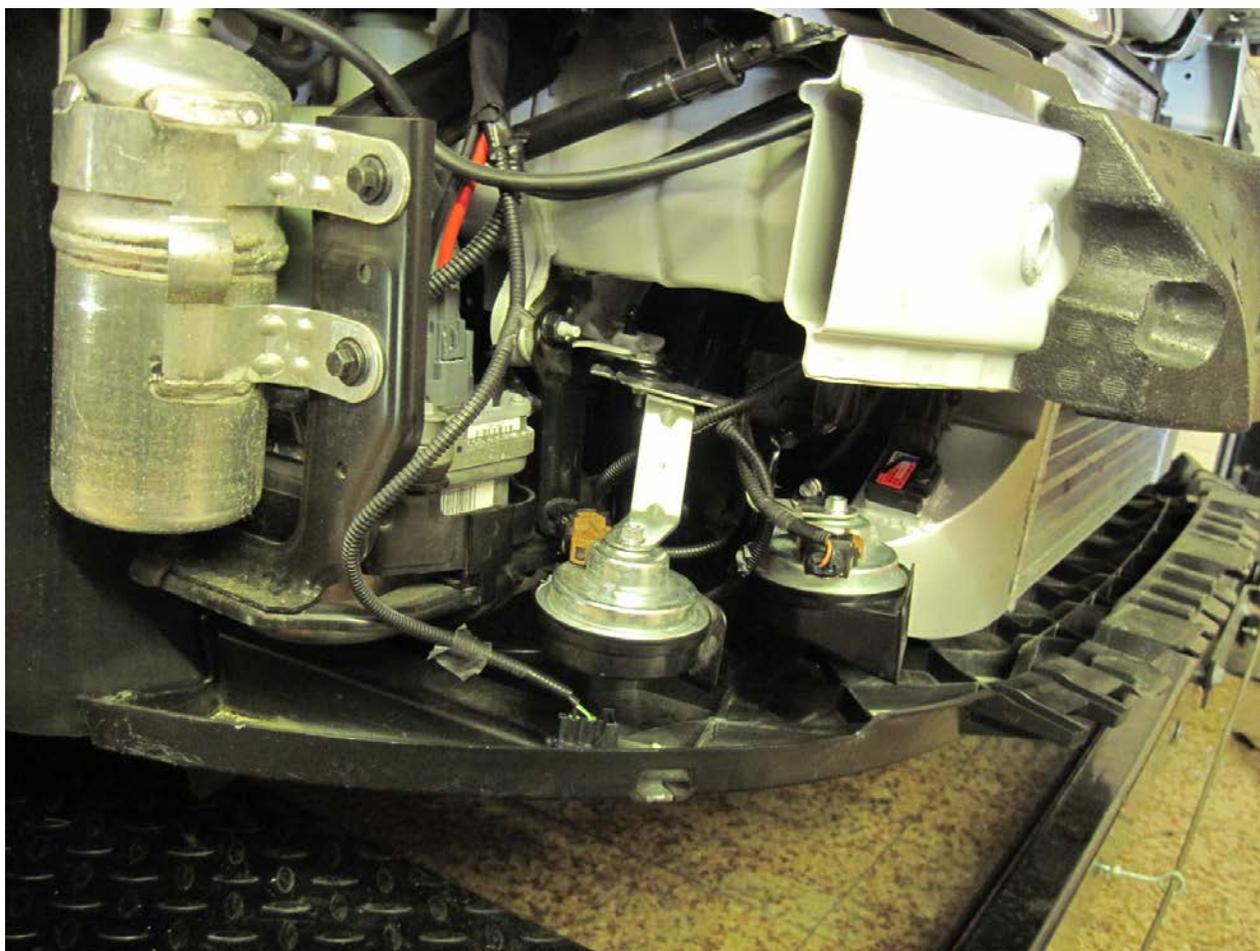
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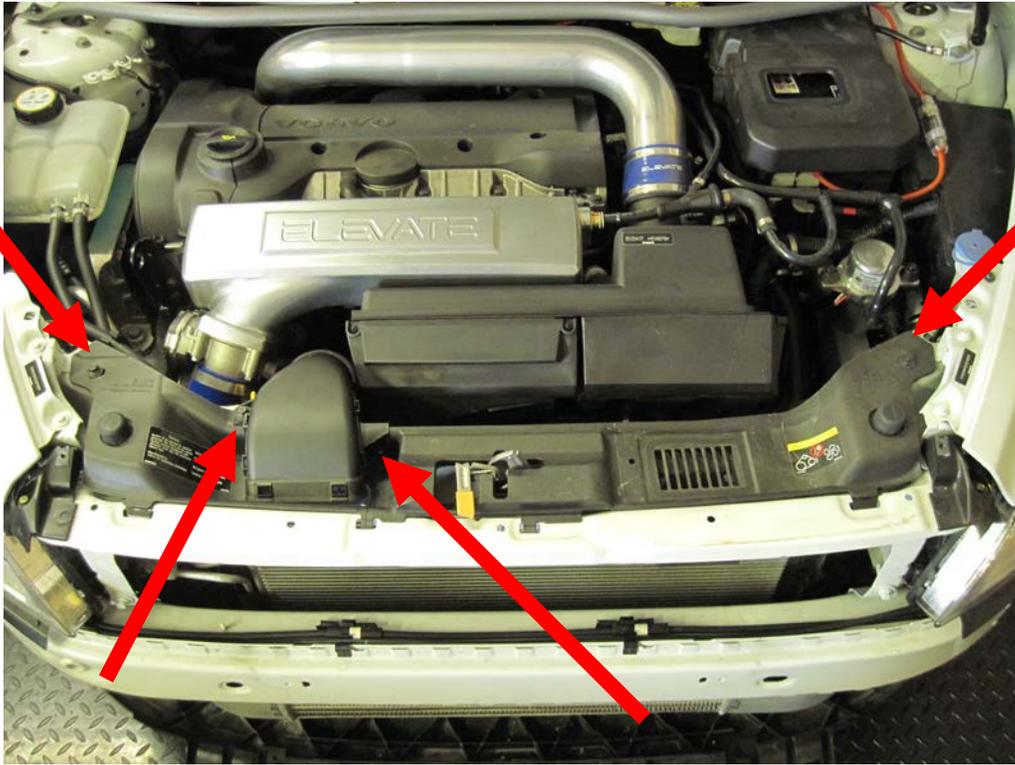
4. Separate horn wires from brackets and route the horn wires in front of the radiator, down toward the power steering pump at the front right corner of car.



5. Reconfigure the horn brackets as shown below and mount to the frame using included M6x25 bolt and nut. Reconnect horn wires to horns and secure wires with a zip tie. Test horn.



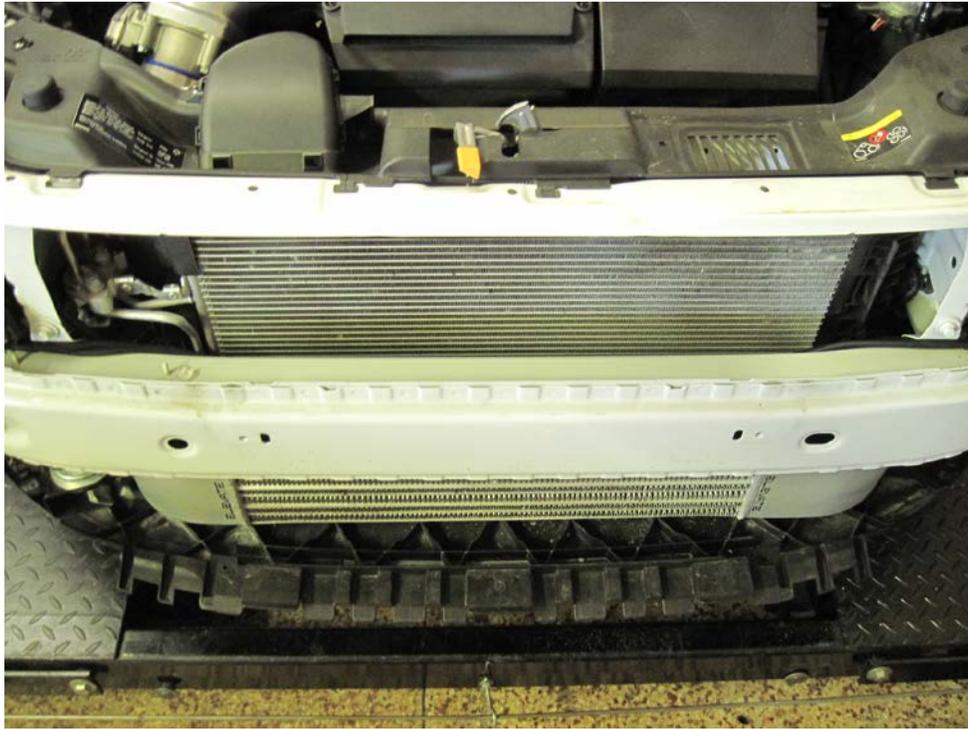
6. Remove black plastic panel on top of radiator support by removing two 8mm headed bolts at ends and two 8mm headed bolts which hold the air intake snorkel in place. Remove snorkel and black plastic panel.



7. Remove air diverter by unscrewing plastic clips. Remove the air intake pipe at side of air box to gain access to the oil filter housing. Change oil filter.



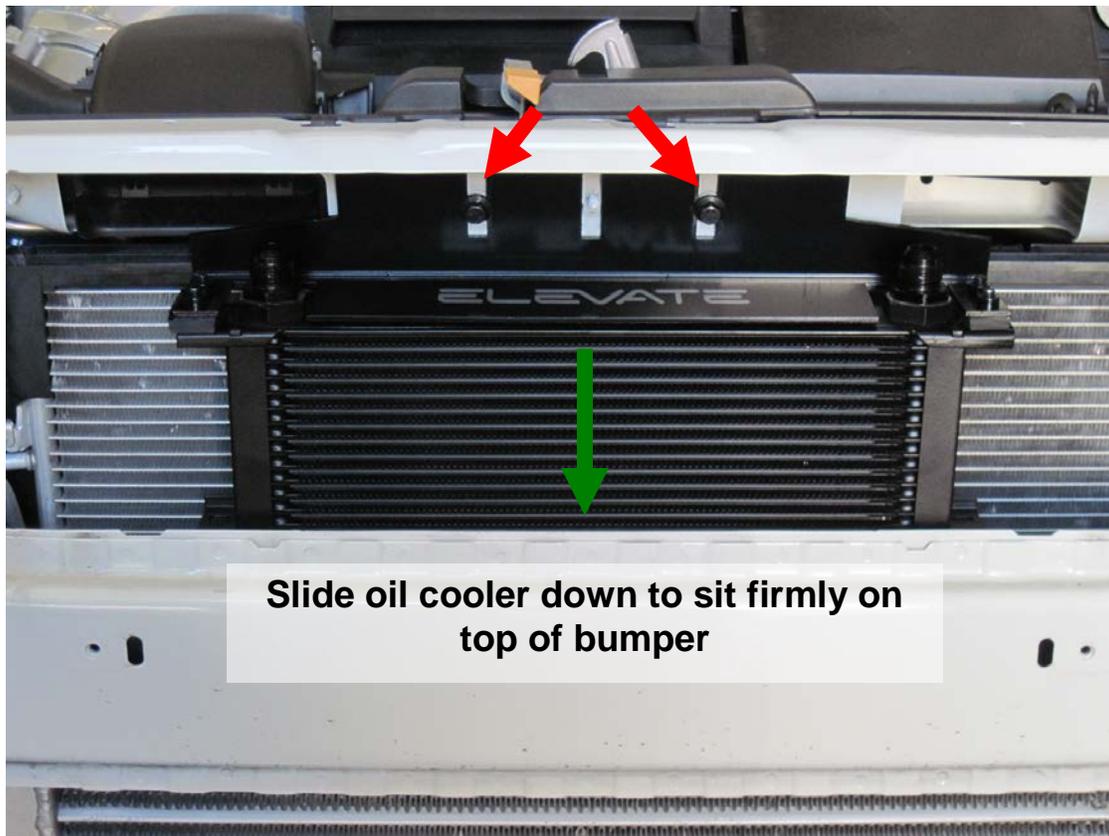
8. Replace the black plastic cover and air intake snorkel. Clean the back side of the bumper. Route the washer hoses behind the bumper and secure using duct tape to the back of the bumper, leaving the top of the bumper clean and open.



9. **Optional Step:** You may consider using matte black paint to paint the radiator, bumper and any other components for a cleaner final look as shown.



10. Fit oil cooler by loosening (no need to remove) the two bolts which attach the hood latch and slide the oil cooler assembly with bracket into place. Slide oil cooler down so that the rubber feet on the bottom of the oil cooler are securely on the top of the bumper. Tighten the two bolts.



11. Assemble oil lines onto oil fittings on one end of each hose. Slide fitting nut onto hose as pictured below. Put a bit of oil in the fitting end and slide hose onto fitting. Slide nut onto fitting and tighten.



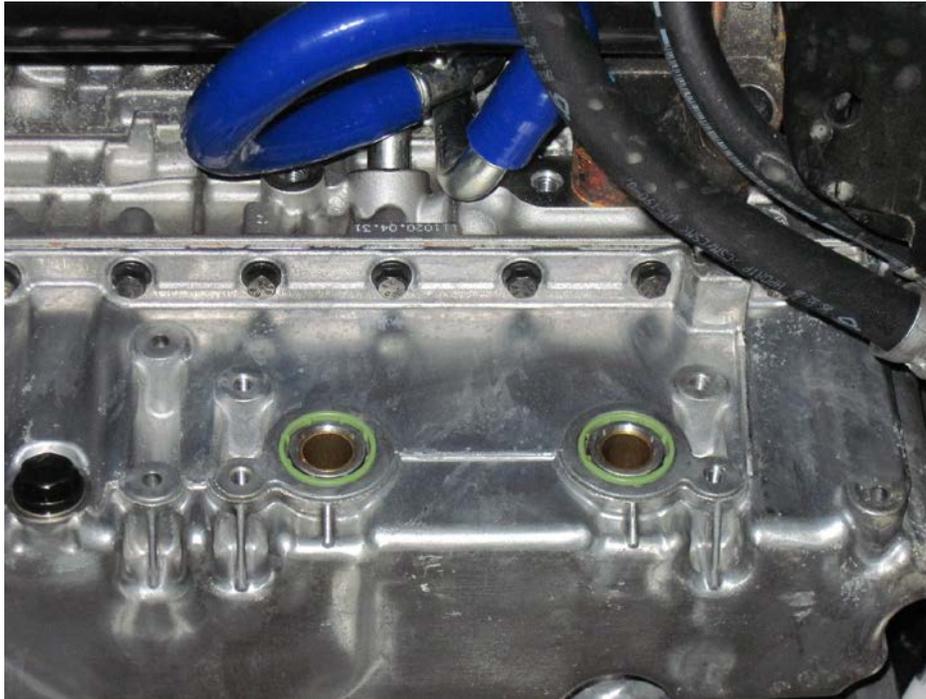
12. Attach oil lines to the oil cooler, but leave loose. Route oil cooler lines to the left side of the radiator and down through the opening. Use zip ties to secure oil lines. Tighten oil cooler fittings at the oil cooler.



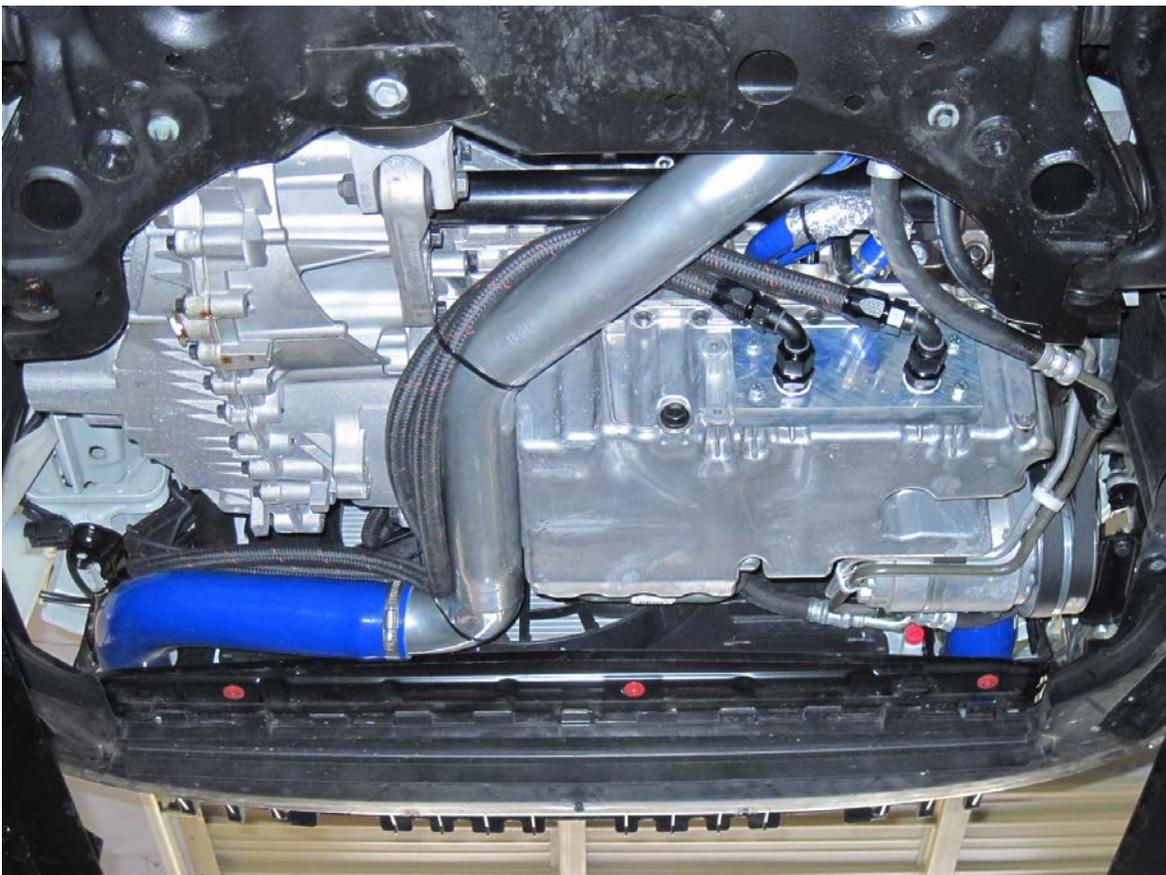
13. Under the car, remove the two coolant hoses from the stock oil cooler. Coolant will flow out, so catch and dispose of coolant properly. Remove the two coolant hoses from the hard lines. Connect new ELEVATE silicone hose to prevent excess coolant from leaking.



14. Remove the stock oil cooler by removing the four T40 bolts securing it to the oil pan. Oil will leak out of the oil cooler and from the oil pan, so be prepared to catch oil and dispose of properly. Remove the two oil seals. Thoroughly clean the mounting area. Install two new oil seals. Mount aluminum adapter plate to the oil pan using included M7 bolts and nuts and tighten securely.



15. Route oil cooler lines as shown. Cut oil lines to length and assemble 90 degree fittings. Attach to oil adapter plate and tighten. Secure oil cooler lines using zip ties. Use stock hose clamps to attach and tighten silicone coolant hose, connecting the two coolant hard lines.



16. Check all fittings and ensure that oil lines are secure.
17. Fill coolant reservoir.
18. Fill engine with five quarts of engine oil ONLY.
19. Start engine and allow to run for about five seconds ONLY. This allows the engine oil to start circulating and fill the new oil cooler and lines.
20. Add another two quarts of oil (total of seven) and run the engine for thirty seconds. Shut off engine and check oil level using dipstick. Add oil as needed. Recheck coolant level and add coolant as needed.
21. Start engine and allow to come up to operating temperature. Watch coolant level and add coolant as needed.
22. Check for oil or coolant leaks.
23. Reassemble front bumper—do not forget to put foam support in place.
24. Reinstall splash pan under engine compartment.

