



Hybrid Racing K20Z3/K24 Coolant Port Adapter

Review this guide for instructions on how to install the Hybrid Racing upper coolant port for the K20Z3/K24 engine. This guide features the kit being installed on a 06-11 Honda Civic Si. If you are installing this part on a different chassis, the insta

Written By: Hybrid Racing



INTRODUCTION

Hybrid Racing K20Z3 upper coolant neck adapter was designed for 2006-2011 8th Gen Civics or K-Swap owners who need to modify or improve the function and form of their car's cooling system. It boasts full 6061-T6 aluminum construction, lending it a strong and lightweight design along with a clean appearance that will put your OEM coolant housing to shame. The kit's modular design allows the user to configure it to their exact setup.



TOOLS:

- [metric socket set](#). (1)
 - [1/2" ratchet, 3/8" ratchet, and ratchet extensions](#) (1)
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Step 1 — Hybrid Racing K20Z3 Coolant Neck Adapter



- Start by removing the radiator cap

⚠ Never open the radiator cap if the coolant is still hot.

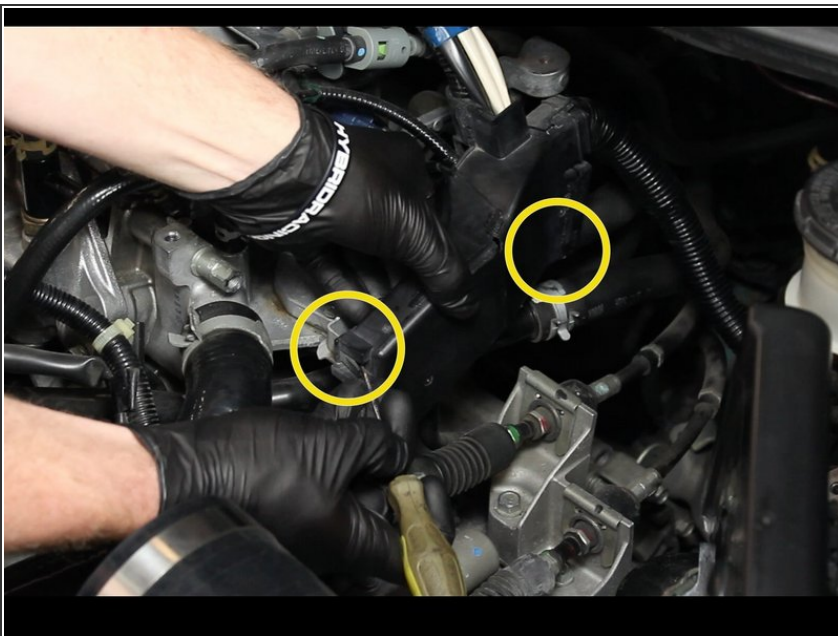
- Unscrew the drain plug and drain the coolant from the engine and radiator
- i** Be sure to use a coolant safe container. If you are not re-using the coolant, dispose of according to your local environmental laws.

Step 2



- Remove the air intake system.
- ⓘ This car is equipped with the Hybrid Racing air intake. The OEM air box will require a few more steps.

Step 3



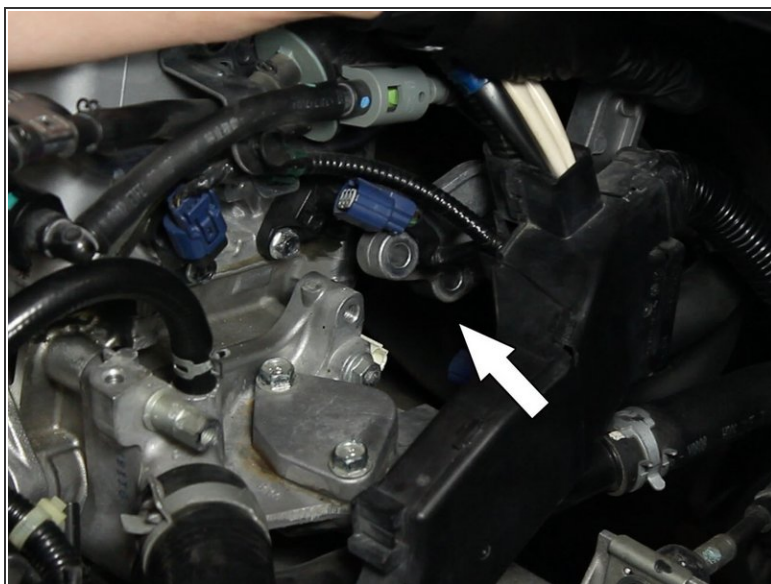
- Remove the engine wiring from the bracket. Pull the tabs outward to slide the plastic cover away from the engine.

Step 4



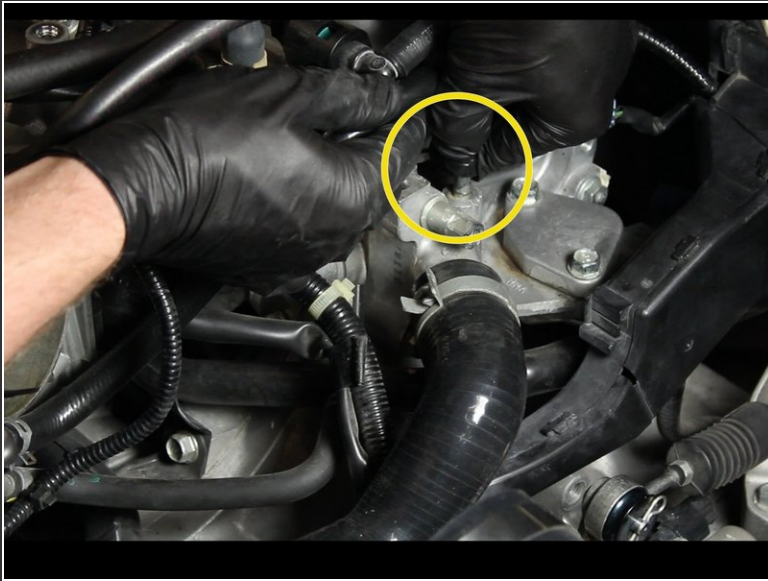
- Remove the wiring harness bracket from the coolant housing.

Step 5



- Remove the OEM air intake support bracket.

Step 6



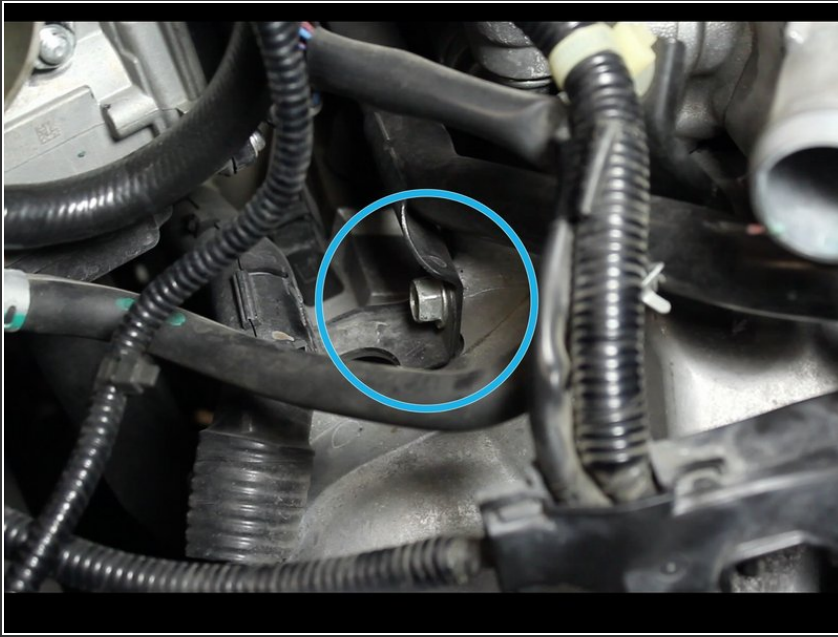
- Remove the coolant hose that connects to the IACV.
- ☑ *If you choose to use the IACV with the HR coolant port, you should remove both sides of this hose now.*
- Remove the upper radiator hose.

Step 7



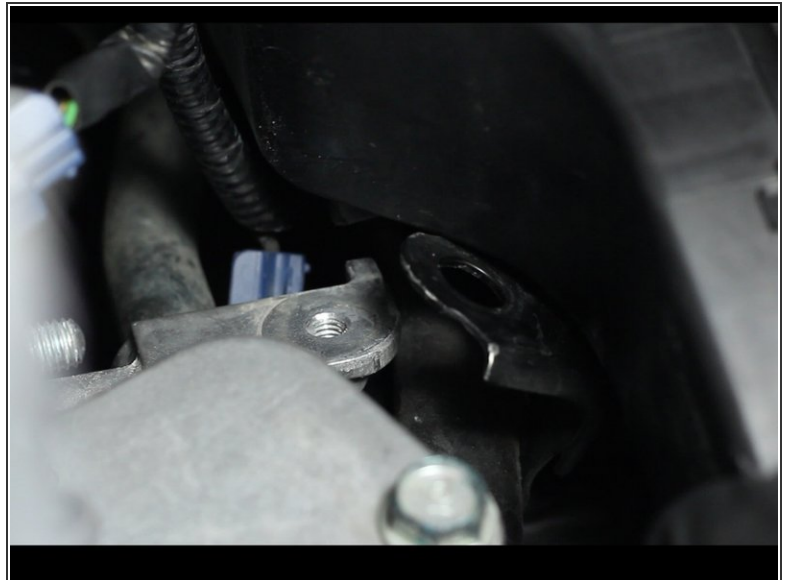
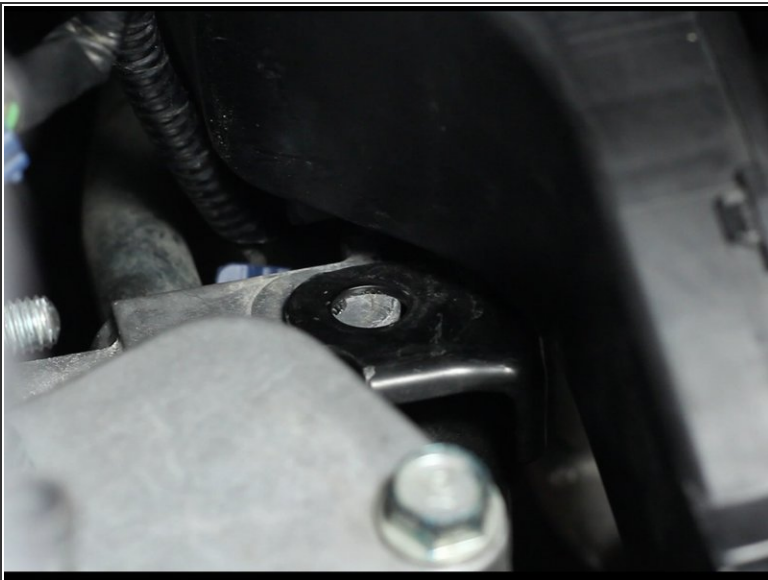
- On the rear of the coolant housing, remove the heater hose.

Step 8



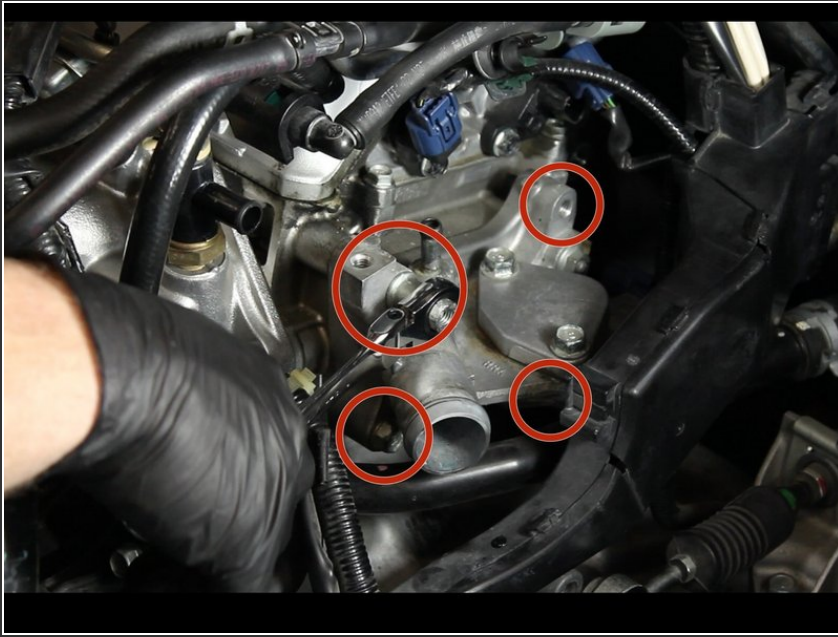
- Remove the nut that holds the heater hose pipe in place.

Step 9



- Locate and bend the heater hose pipe tab up and away from the OEM coolant housing.
- ⓘ This is necessary for removal, otherwise the housing will not have enough room to slide off the studs.

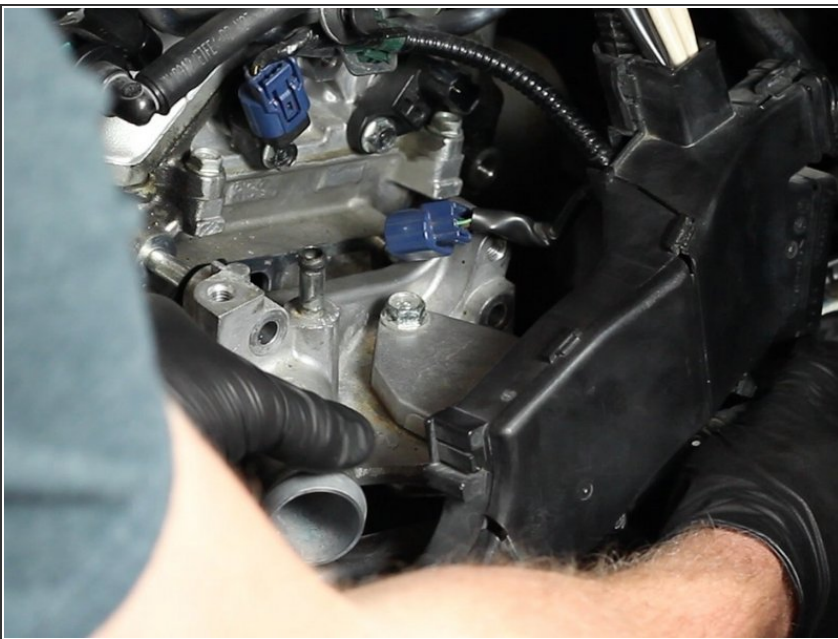
Step 10



- Remove the two upper nuts and two lower bolts.

⚠ The coolant housing should be free however you may have to wiggle it loose as it can get stuck to the gasket.

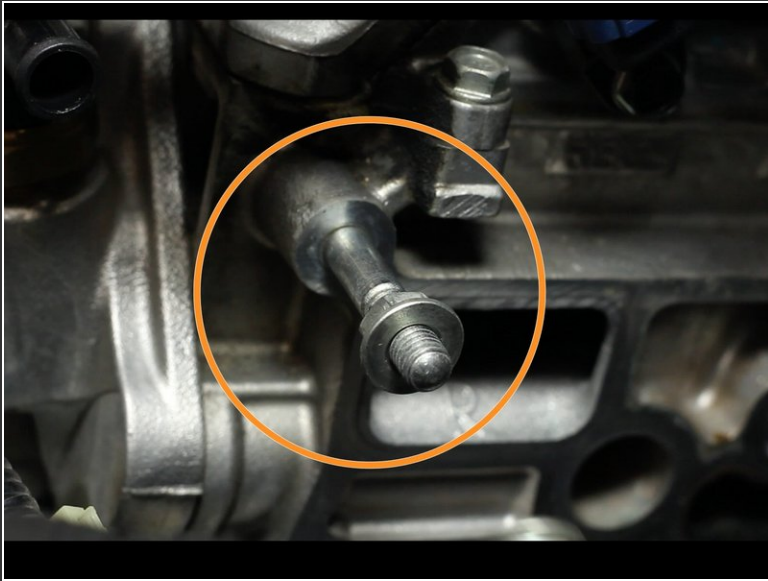
Step 11



- Slide the coolant housing away from the engine and remove it from the engine bay.

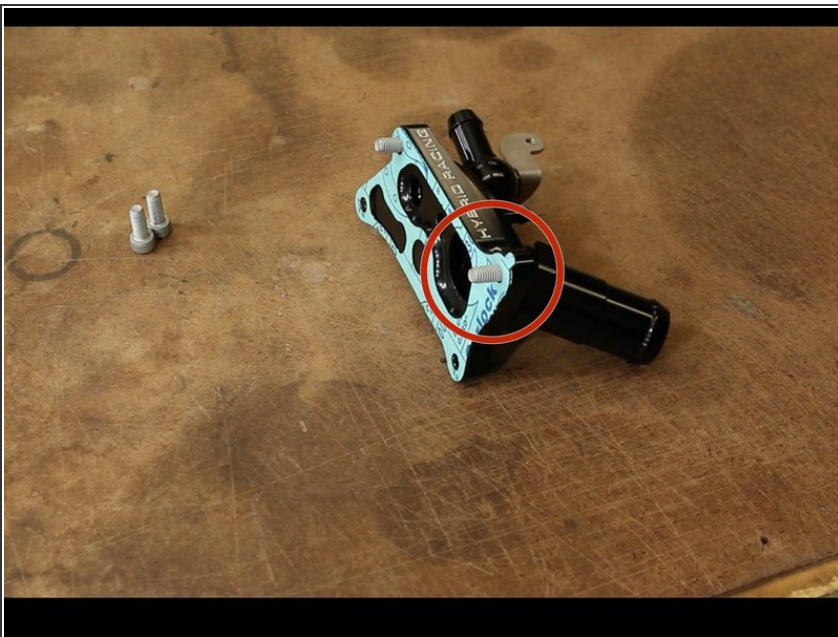
i You may need to hold the heater pipe out of the way.

Step 12



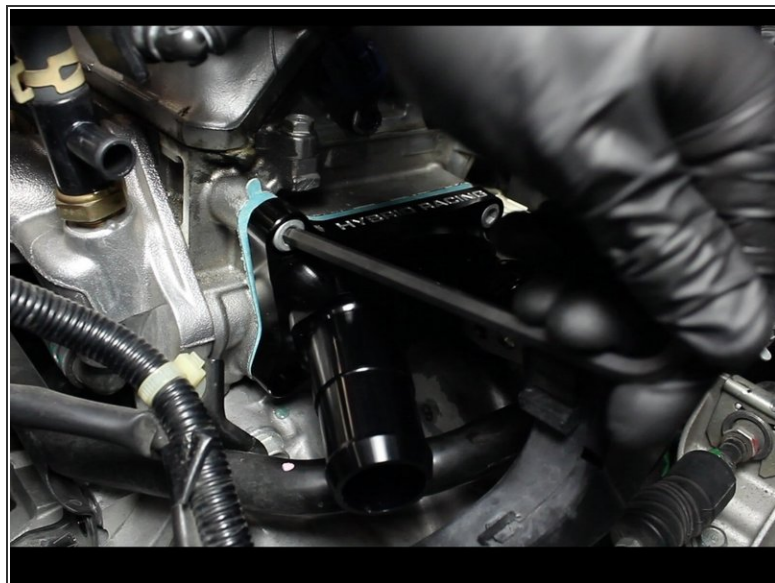
- Use one of the nuts and spin it on backwards.
- Take another nut and thread it on, tighten them together.
- Unscrew the inside nut and the stud should back out of the cylinder head. Do this for both upper studs.

Step 13



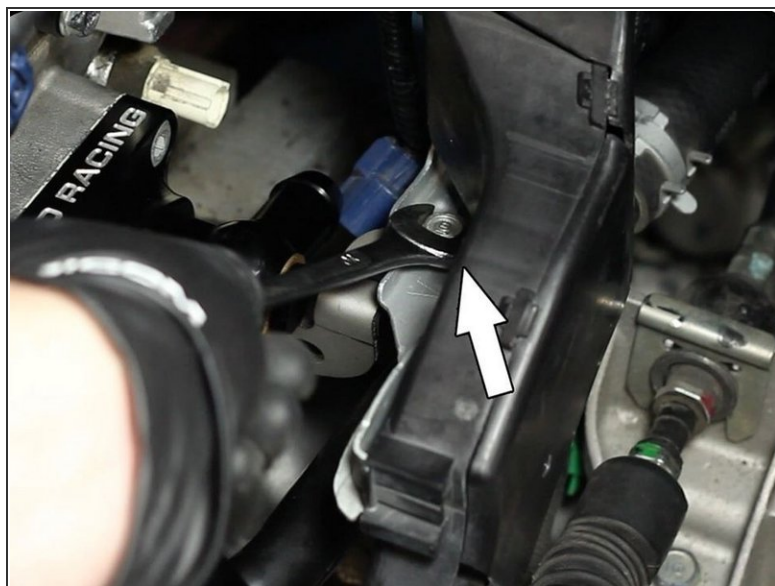
- Install the gasket with the tab on the top. Take two of the included bolts and stick them through the housing.
- ☑ Check to make sure all of the fittings are tight.

Step 14



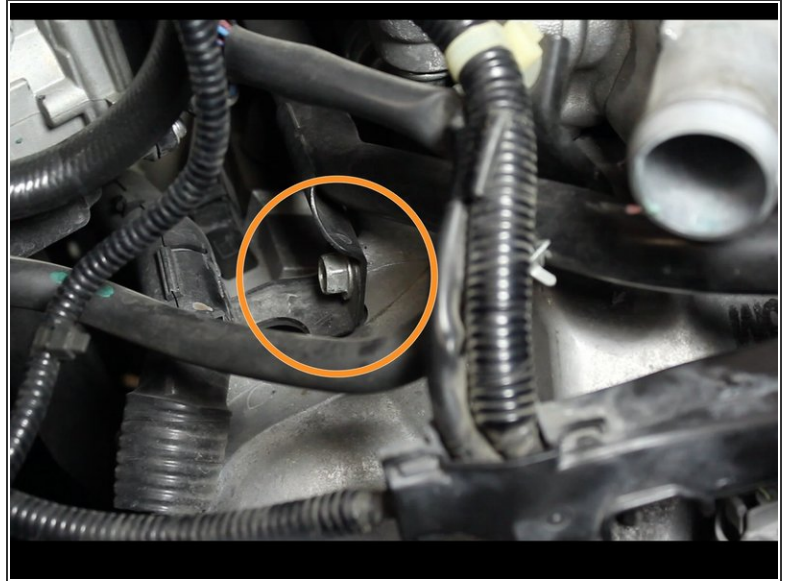
- Install the new coolant port housing and tighten them in a crossing sequence.

Step 15



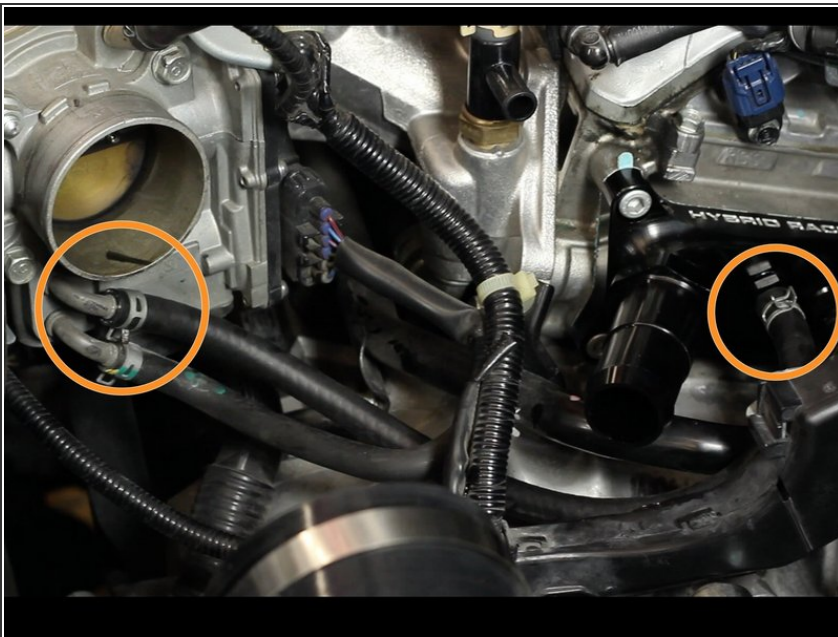
- Bend the heat hose pipe mounting tab back into place and install the factory mounting bracket.

Step 16



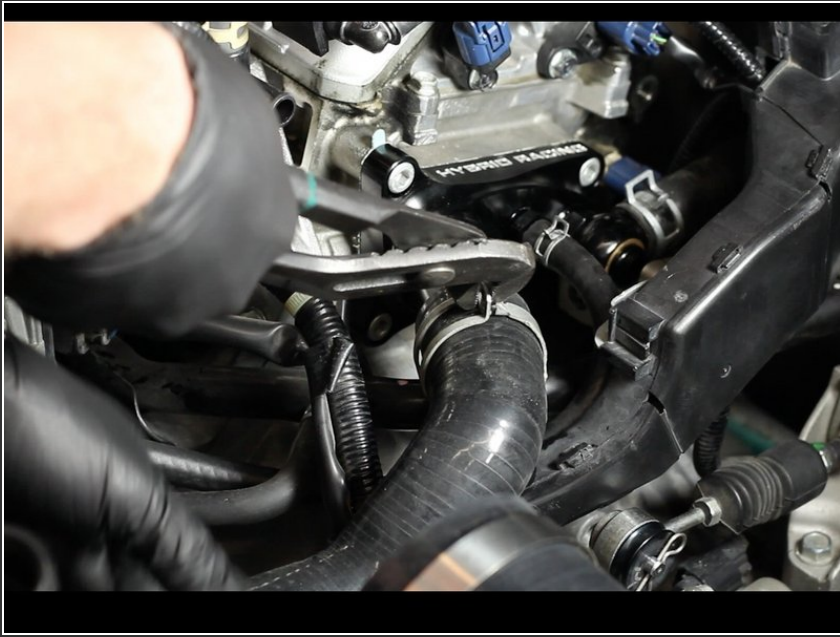
- Re-install the heater hose onto the new outlet fitting.
- Re-install the heater hose pipe mounting bracket.

Step 17



- If using the IACV, install the supplied extended coolant hose. Use the OEM clamps.

Step 18



- Re-install the upper coolant hose.

Step 19



- Once all of the parts are tight, fill the system with coolant and bring the engine up to operating temperature. Check for and fix all leaks.
- ⚠ Be sure that the car has enough coolant and monitor your temperature gauge. Once the engine warms up, the thermostat will open requiring you to add more coolant to the system.**
- i If you are having trouble getting the air out of the system, you can use the top mounted bleeder screw.**

Step 20



- You're finished!