



# 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



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## 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.

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### 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.**

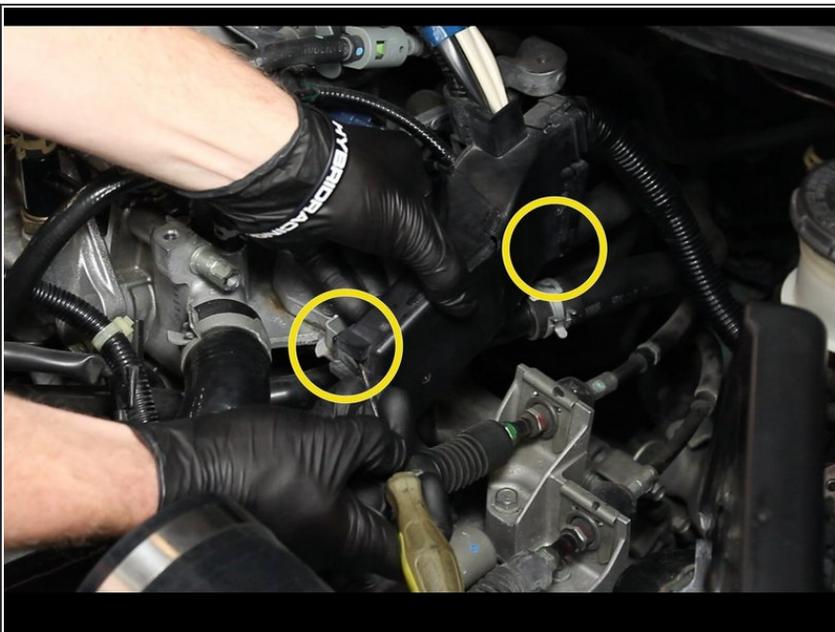
- Unscrew the drain plug and drain the coolant from the engine and radiator
- ⓘ Be sure to use a coolant safe container. If you are not re-using the coolant, dispose of according to your local environmental laws.

## Step 2

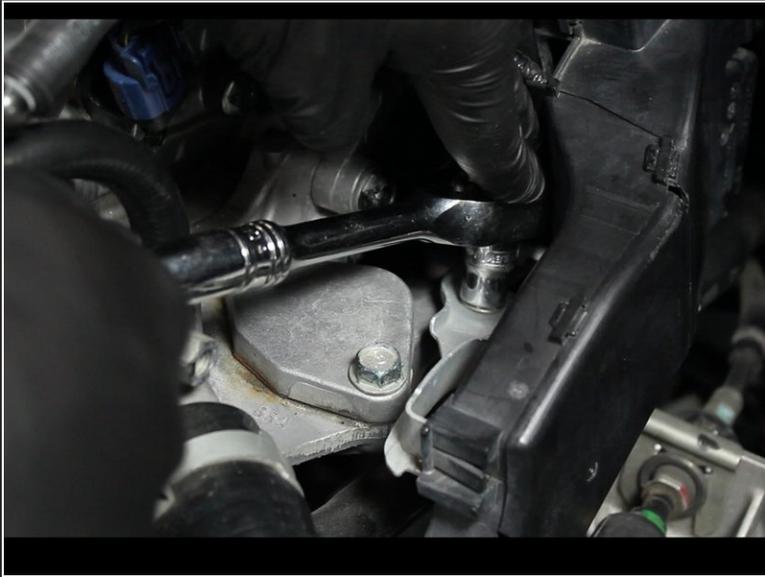


- Remove the air intake system.
- ⓘ This car is equipped with the Hybrid Racing air intake. The OEM air box will require a few more steps.

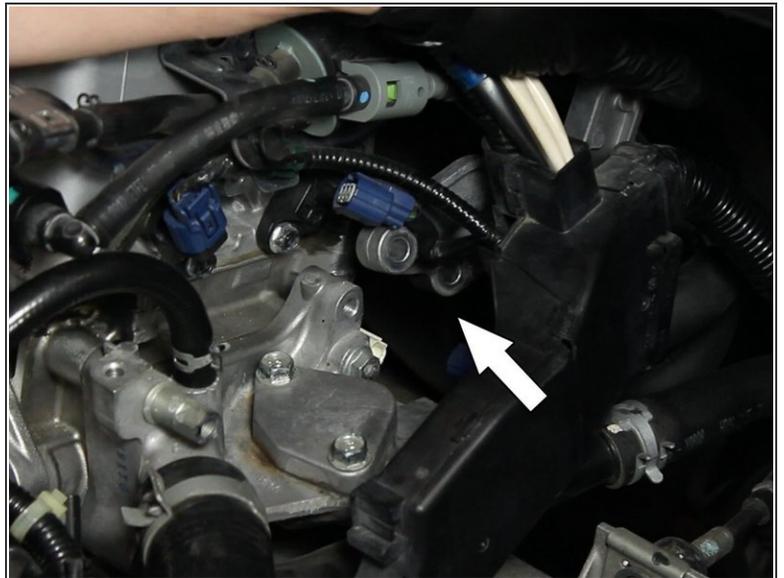
## Step 3



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

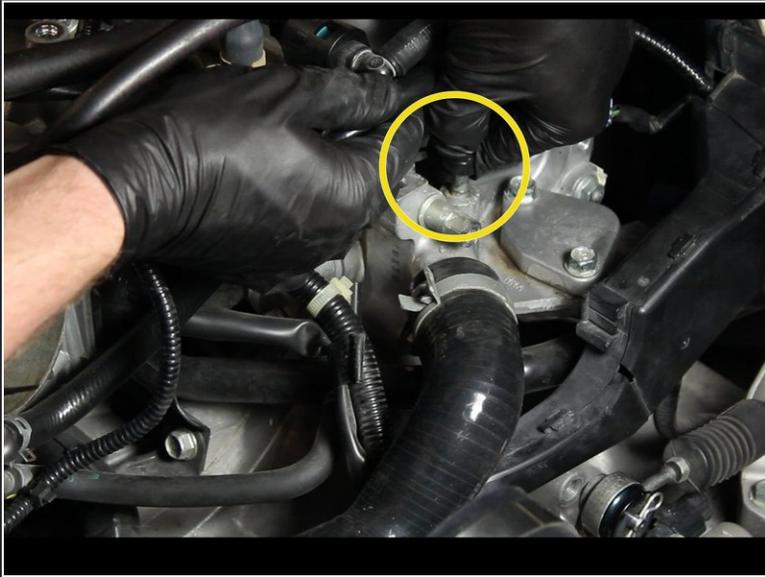
**Step 4**

- Remove the wiring harness bracket from the coolant housing.

**Step 5**

- Remove the OEM air intake support bracket.

## Step 6



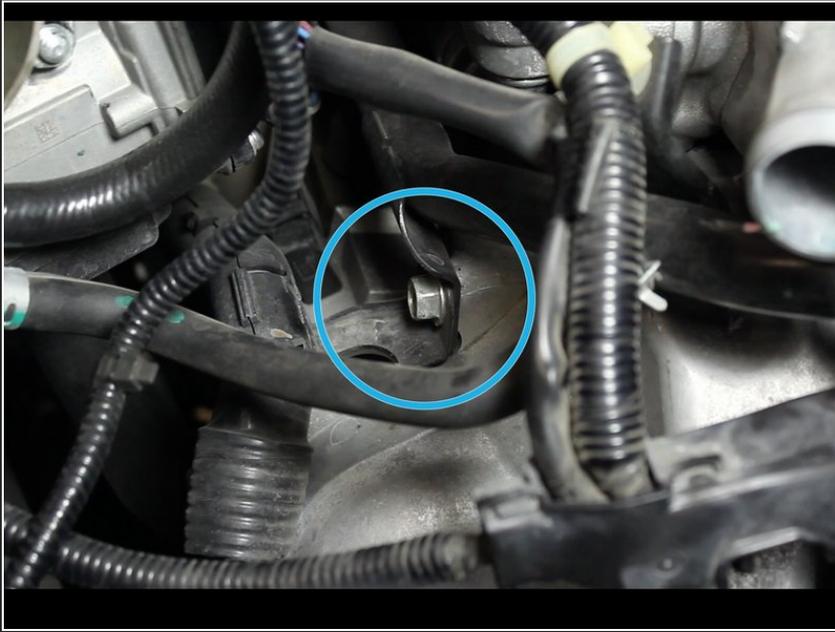
- Remove the coolant hose that connects to the IACV.
- ☞ *If you choose to use the IACV with the HR coolant port, you should remove both sides of this hose now.*
- Remove the upper radiator hose.

## Step 7



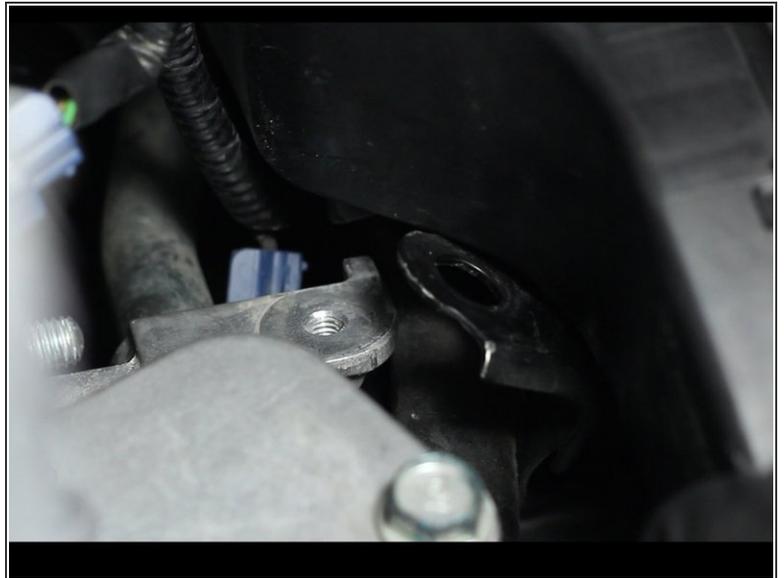
- On the rear of the coolant housing, remove the heater hose.

## Step 8



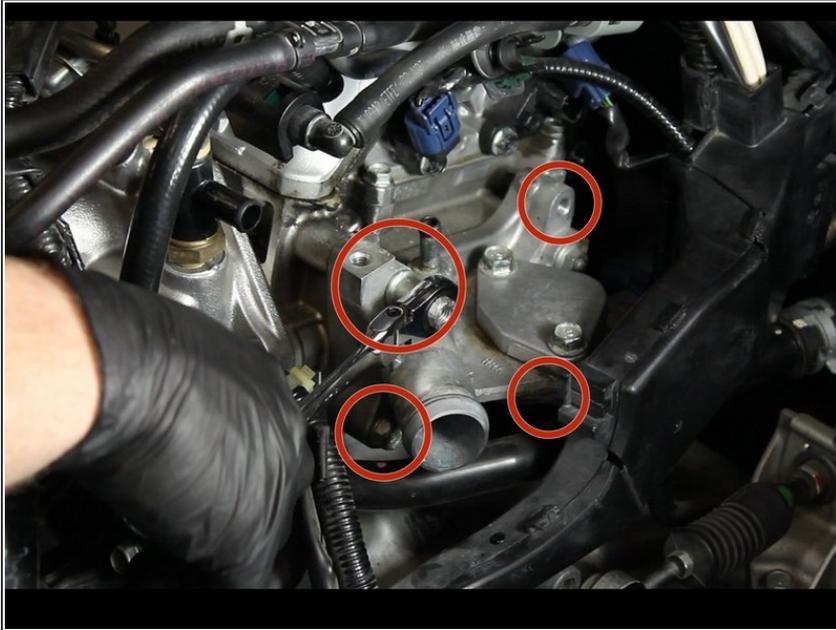
- Remove the nut that holds the heater hose pipe in place.

## Step 9



- Locate and bend the heater hose pipe tab up and away from the OEM coolant housing.
- **i** 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.

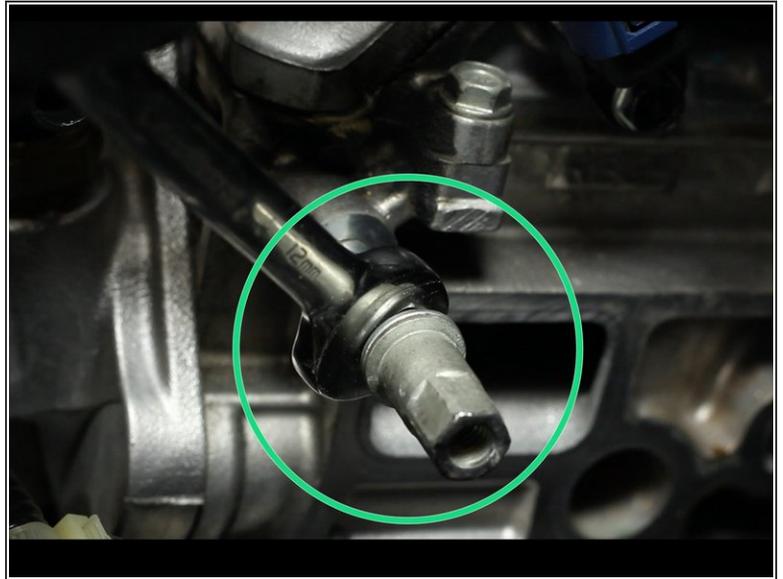
## Step 11



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

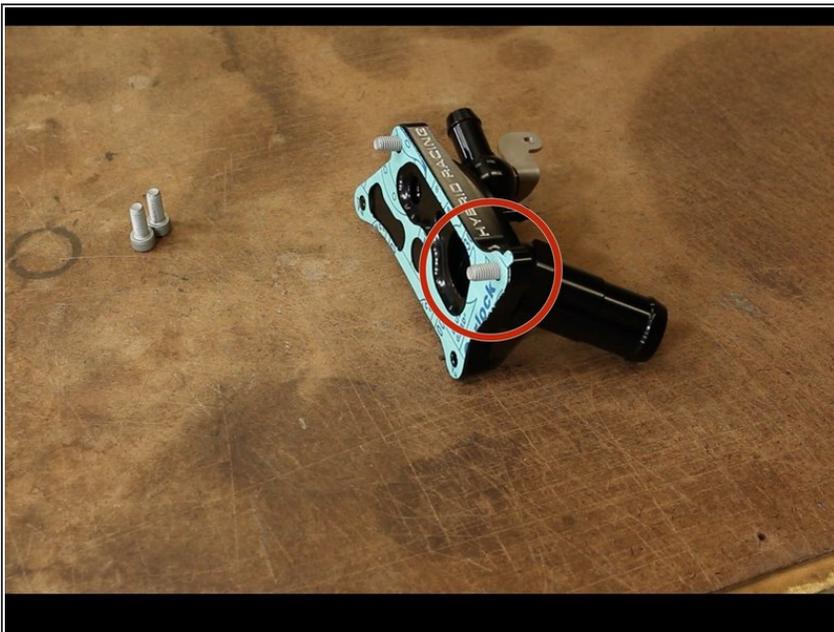
**i** You may need to hold the heater pipe out of the way.

## Step 12



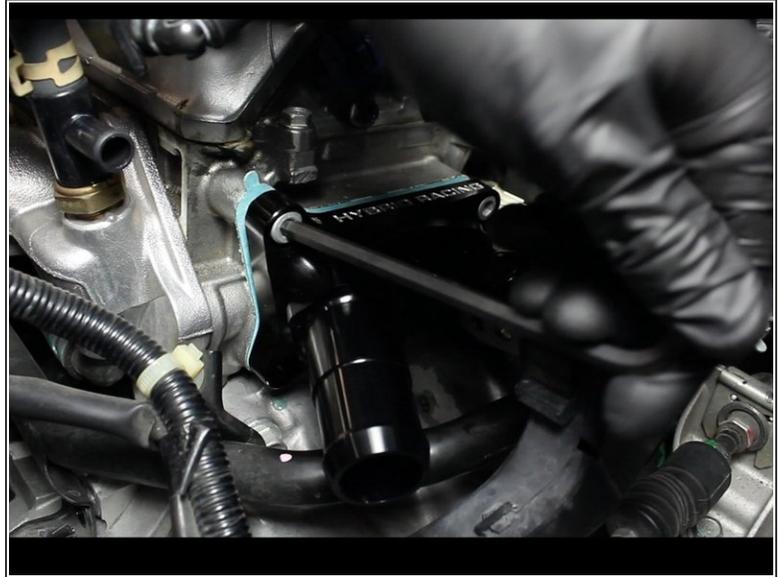
- Use one of the nuts and spin it on backwards.
- Take another nut and thread it on, tighten them together.
- Unscrew the inside nut and the stud should back out of the cylinder head. Do this for both upper studs.

## Step 13



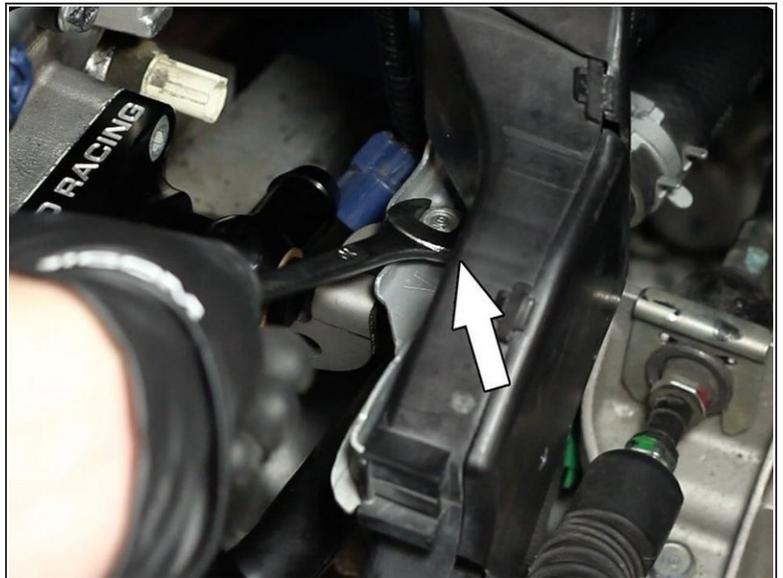
- Install the gasket with the tab on the top. Take two of the included bolts and stick them through the housing.
- ☑ Check to make sure all of the fittings are tight.

## Step 14



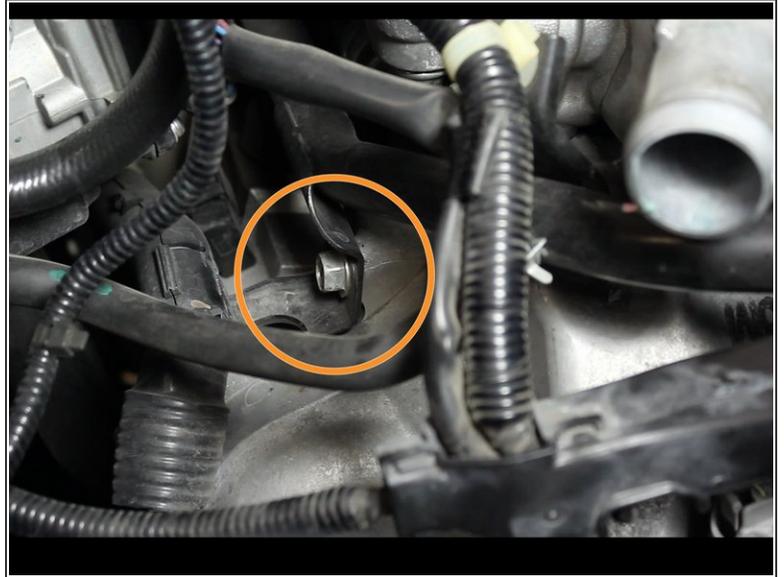
- Install the new coolant port housing and tighten them in a crossing sequence.

## Step 15



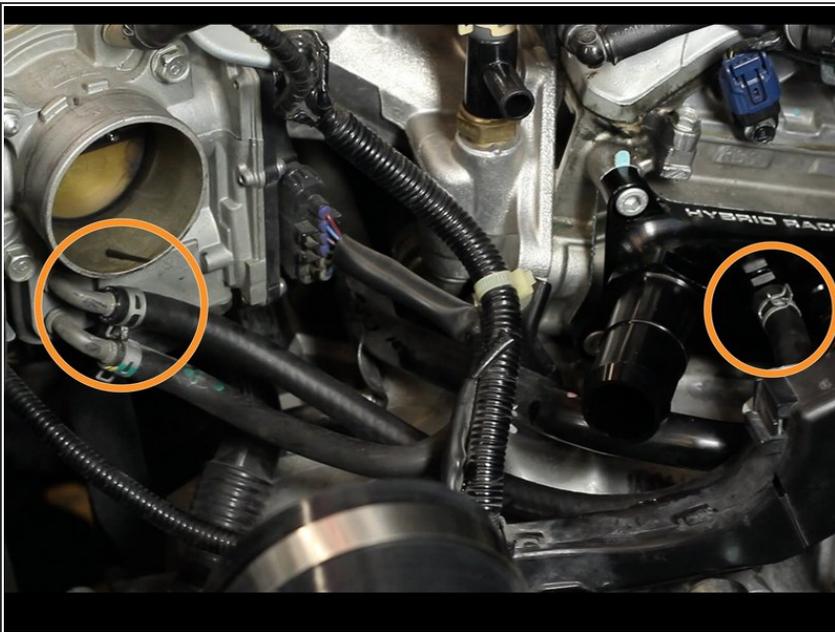
- Bend the heat hose pipe mounting tab back into place and install the factory mounting bracket.

## Step 16

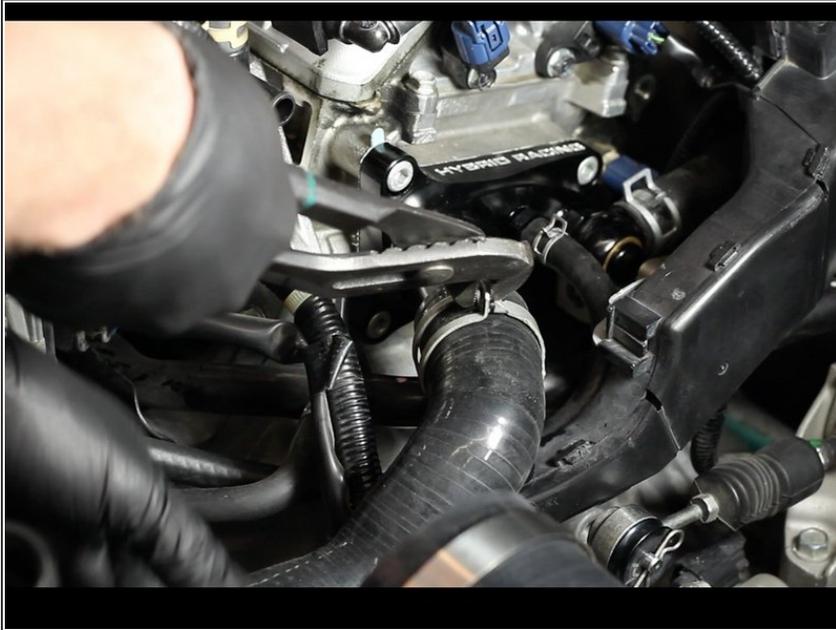


- Re-install the heater hose onto the new outlet fitting.
- Re-install the heater hose pipe mounting bracket.

## 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.**

- ⓘ 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!