

**Audi B8 3.0T ECS Center X-Pipe Installation Instructions** 



# Skill Level 2 - Moderate

Some Experience Recommended













### INTRODUCTION

# The Project:

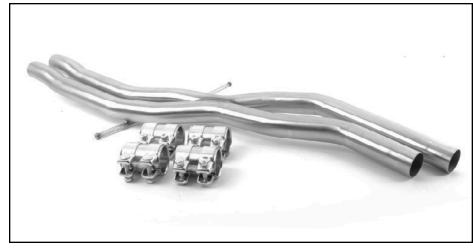
Today we are going to install our ECS Tuning B8 3.0T ECS Center X-Pipe. This in-house engineered performance X-Pipe installs in place of the stock resonator, and offers serious upgrades in both sound as well as performance. This X-Pipe is a great way to make your B8 3.0T sound better without breaking the bank, and it's easy to install, only requiring a few basic tools. We've bumped up the skill level on this job a little, not so much because of true difficulty, but because of the patience and attention to detail which are required for proper installation.

Take your time and enjoy the project, it'll only take you a couple of hours or less. Be sure to read these instructions completely before you begin. Thank you for looking to ECS Tuning for all your performance and repair needs, we appreciate your business!

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### **KIT CONTENTS**



Center X-Pipe (QTY 1) Exhaust Sleeves (QTY 4)



# **REQUIRED TOOLS**

Note: The tools required for each step will be listed by the step number throughout these instructions.

### **Standard Automotive Tools**

### **Required For This Install**

### **Available On Our Website**

Protecta-Sockets (for lug nuts) <u>ES#2221243</u>	• ¼" Drive Ratchet <u>ES#2823235</u>
• 3/8" Drive Ratchet <u>ES#2765902</u>	• ¼" Drive Deep and Shallow Sockets <u>ES#2823235</u>
• 3/8" Drive Torque Wrench <u>ES#2221245</u>	• ¼" Drive Extensions <u>ES#2823235</u>
• 3/8" Drive Deep and Shallow Sockets ES#2763772	• Plier and Cutter Set <u>ES#2804496</u>
• 3/8" Drive Extensions <u>ES#2804822</u>	• Flat and Phillips Screwdrivers <u>ES#2225921</u>
Hydraulic Floor Jack ES#240941	• Jack Stands <u>ES#2763355</u>
• Torx Drivers and Sockets <u>ES#11417/8</u>	Ball Pein Hammers
• ½" Drive Deep and Shallow Sockets <u>ES#2839106</u>	• Pry Bar Set <u>ES#1899378</u>
• ½" Drive Ratchet	Electric/Cordless Drill
• ½" Drive Extensions	Wire Strippers/Crimpers
• ½" Drive Torque Wrench <u>ES#2221244</u>	• Drill Bits
• ½" Drive Breaker Bar <u>ES#2776653</u>	<ul> <li>Punch and Chisel Set</li> </ul>
Bench Mounted Vise	<ul> <li>Hex Bit (Allen) Wrenches and Sockets<u>ES#11420</u></li> </ul>
Crows Foot Wrenches	• Thread Repair Tools <u>ES#1306824</u>
Hook and Pick Tool Set <u>ES#2778980</u>	Open/Boxed End Wrench Set      ES#2765907

### **Specialty Tools**

- Exhaust Hanger Removal Pliers ...... <u>ES#2784927</u>
- Reciprocating Saw w/Metal Cutting Blade
- Die Grinder OR Metal File



### **INSTALLATION NOTES**

- **RH** refers to the *passenger side* of the vehicle.
- **LH** refers to the *driver side* of the vehicle.
- Always use the proper torque specifications.
- If applicable to this installation, torque specifications will be listed throughout the document and at the end as well.
- Please read all of these instructions and familiarize yourself with the complete process **BEFORE** you begin.

# GENERAL PREPARATION AND SAFETY INFORMATION

ECS Tuning cares about your health and safety, please read the following safety information. This information pertains to automotive service in general, and while it may not pertain to every job you do, please remember and share these important safety tips.

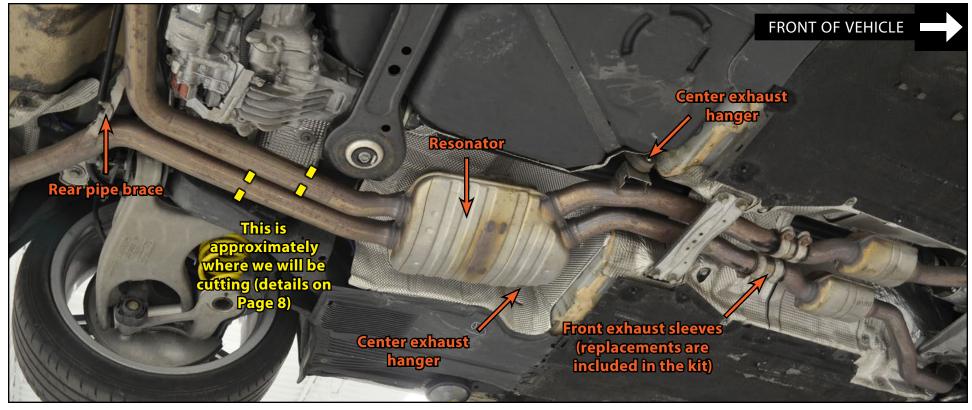
- Park your car in a safe, well lit, level area.
- Shut the engine off and remove the key from the ignition switch.
- Make sure any remote start devices are properly disabled.
- **ALWAYS** wear safety glasses.
- Make sure the parking brake is applied until the vehicle is safely lifted and supported.
- Whether lifting a vehicle using an automotive lift or a hydraulic jack, be sure and utilize the factory specified lift points.
- Lifting a vehicle in an incorrect location can cause damage to the suspension/running gear.
- **ALWAYS** support the vehicle with jack stands.
- **ALWAYS** read and follow all safety information and warnings for the equipment you are using.



NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.



# **PROJECT OVERVIEW**



This photo shows the exhaust components we will be working on and what we'll be calling them. Here's an overview of the installation procedure:

- 1. Measure and cut the stock exhaust pipes.
- 2. Remove the resonator.
- 3. Install the new X-pipe.
- 4. Adjust the system for proper fitment.
- 5. Tighten all clamps and hardware.

### Now let's get to it!



#### Step 1:

Measure 14.75" down the RH (passenger's side) exhaust pipe from the rear pipe brace, then mark the pipe with a permanent marker as shown.

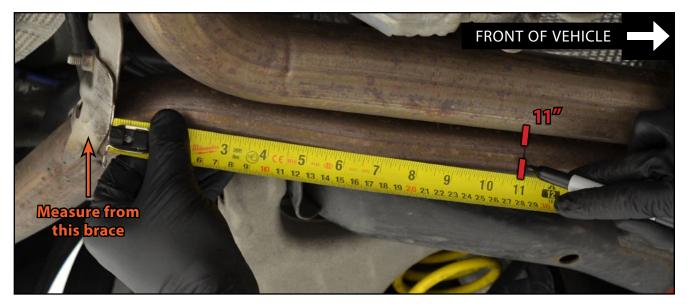


#### Step 2:

Measure 11" down the LH (driver's side) exhaust pipe from the rear pipe brace, then mark the pipe with a permanent marker as shown.



Extend the marks around the pipes so you will have a nice, straight line to reference while cutting the pipes, we used masking tape for this.



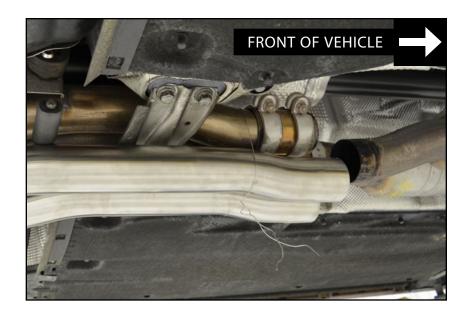


#### Step 3:



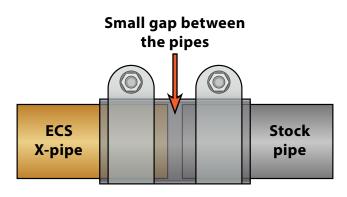
It is *absolutely imperative* that you take your time here and double or triple check your marks before you cut anything. There is no turning back once the pipe has been cut, so measure twice, cut once!

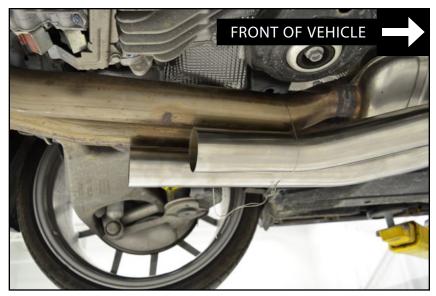
**BEFORE** cutting anything, lift the new ECS X-pipe into position against the stock exhaust pipes. Align the front edge of the X-pipe with the front edge of the stock pipe.



#### Step 4:

With the front of the X-pipe lined up with the stock pipe, move to the rear of the X-pipe and see if your marks line up with the rear of the X-pipe. Remember that there should be a **SMALL** gap between the pipes as illustrated below.

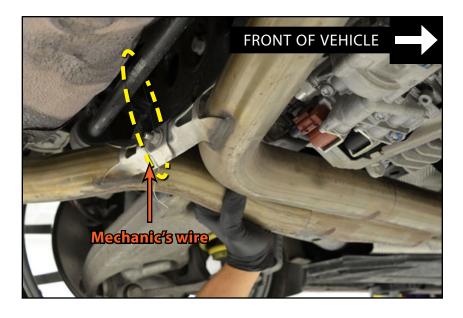






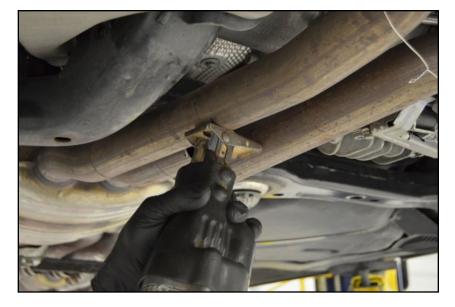
Step 5: Mechanic's Wire, 13mm Socket & Ratchet

Once you are **ABSOLUTELY** sure that your marks are correct, and you won't be cutting the stock pipes too short, suspend the rear pipe brace from the rear sway bar with a length of mechanic's wire. Loosen the nut on the brace, but don't completely remove it.



Reciprocating Saw w/Metal Cutting Blade Step 6:

Cut the exhaust pipes along the lines we marked on Page 6, being sure to make your cuts as straight as possible.





Step 7: **Exhaust Hanger Removal Pliers** 

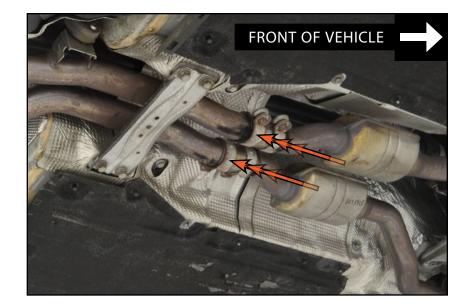
Remove the center exhaust hangers from the resonator, leaving them attached to the body.





13mm Socket & Ratchet Step 8:

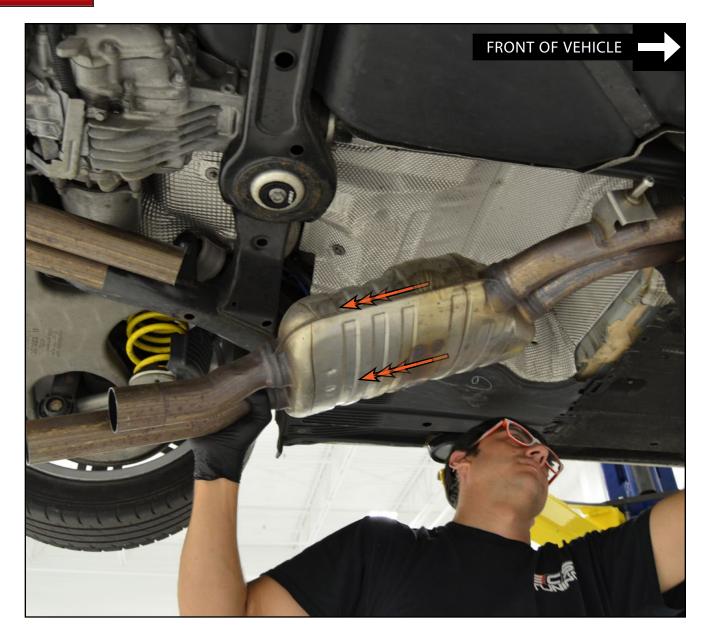
Loosen both nuts on each of the front sleeves, then slide the sleeves rearward onto the resonator pipes as far as you can.





### Step 9:

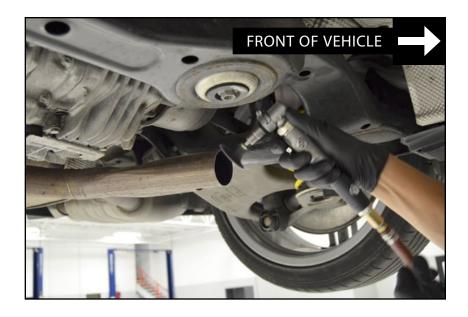
Remove the resonator from the vehicle by first lowering the rear, then sliding the entire unit down and out as shown in the photo. Remove and discard the front exhaust sleeves, these will be replaced by the sleeves included in the kit.





Die Grinder - OR - Metal File Step 10:

Remove any burrs from the exhaust pipes, this will ensure a proper fit and seal once the new X-pipe is installed.



#### Step 11:

Slide two of the new exhaust sleeves over the rear muffler pipes, making sure the nuts are facing downward and positioned on opposite sides of the pipes as shown.

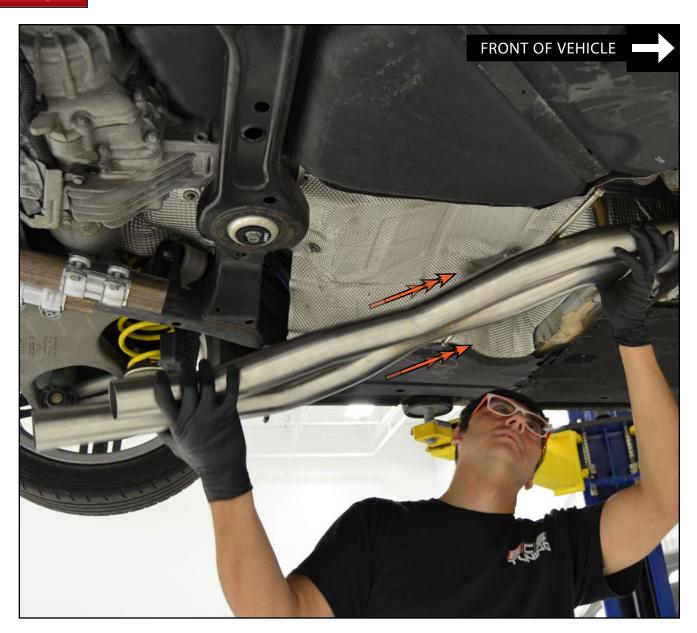




### Step 12:

Slide the other two new exhaust sleeves which are included with the kit onto the front of the X-pipe (not pictured).

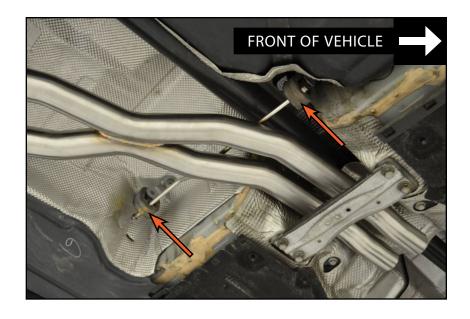
Lift the X-pipe into position as shown, guiding it over the chassis brace, then continue to the next page.





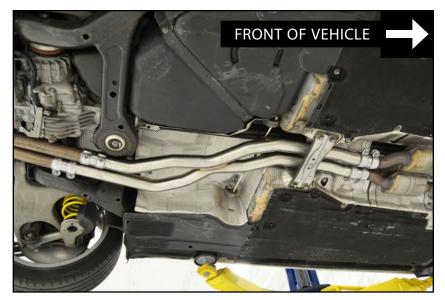
### Step 13:

Install the center exhaust hangers onto the X-pipe to hold it in place.



#### Step 14:

Slide the exhaust sleeves into position so they cover the gaps between the X-pipe and the stock exhaust sections, but leave everything loose at this time.





### **EXHAUST SYSTEM ADJUSTMENT**

Before tightening any of the sleeves, read the adjustment tips below. Keep in mind that this takes some trial and error, it may take some patience in order to:

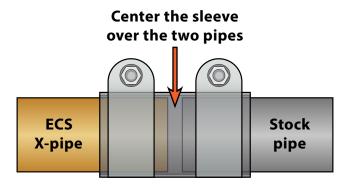
- · Achieve maximum clearance between the exhaust system and surrounding components such as the cross brace, rear subframe, and the rear differential.
- Ensure that all of the exhaust hangers are all tilted forward slightly to allow for heat expansion (more details in step 17 on Page 16).
- Ensure that the rear section of the exhaust is properly aligned, this can easily be checked by looking at the exhaust tips and seeing if they are sitting parallel to one another (shown in the LH photos below).





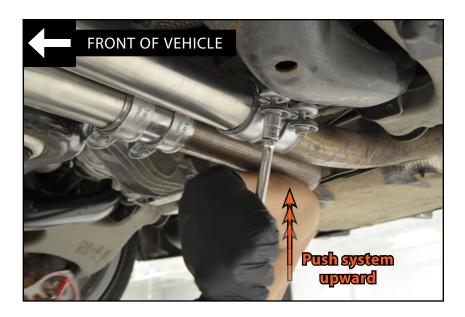
#### Step 15: 13mm Socket & Ratchet

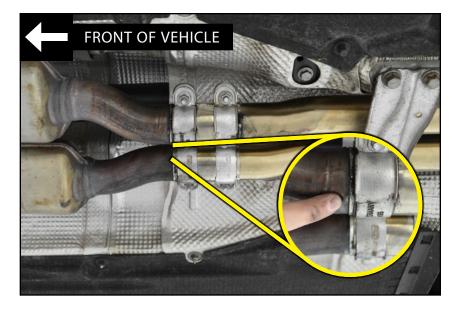
Center the rear exhaust sleeves between the X-pipe and the rear exhaust section (shown below), then push upwards (for maximum ground clearance) and tighten the sleeve nuts. After tightening, the system will settle to a natural rest state.



#### Step 16:

Ensure that the new front exhaust sleeves are slid forward until they bottom out on the locating bump on the downpipes (shown in the inset photo on the right).



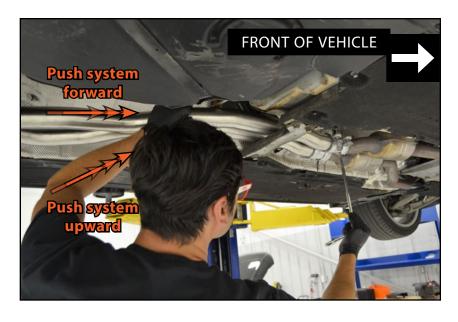




Step 17: 13mm Socket & Ratchet

Ensure that the front and rear exhaust hangers are tilted towards the front of the vehicle, as the exhaust system heats up it will expand rearward as much as an inch or more. This forward angle will allow the exhaust to move as required when it expands and contracts.

Push the X-pipe forward and up while tightening the front exhaust sleeve nuts, this will help angle the exhaust hangers forward for heat expansion.

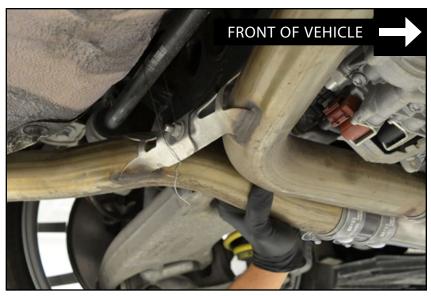


13mm Socket & Ratchet Step 18:

Tighten the rear pipe brace nut and remove the Mechanic's Wire.

After approximately 500 miles, be sure to inspect the system for signs of leaks, and ensure that all of the sleeves are tight.

Your ECS Center X-Pipe installation is complete!

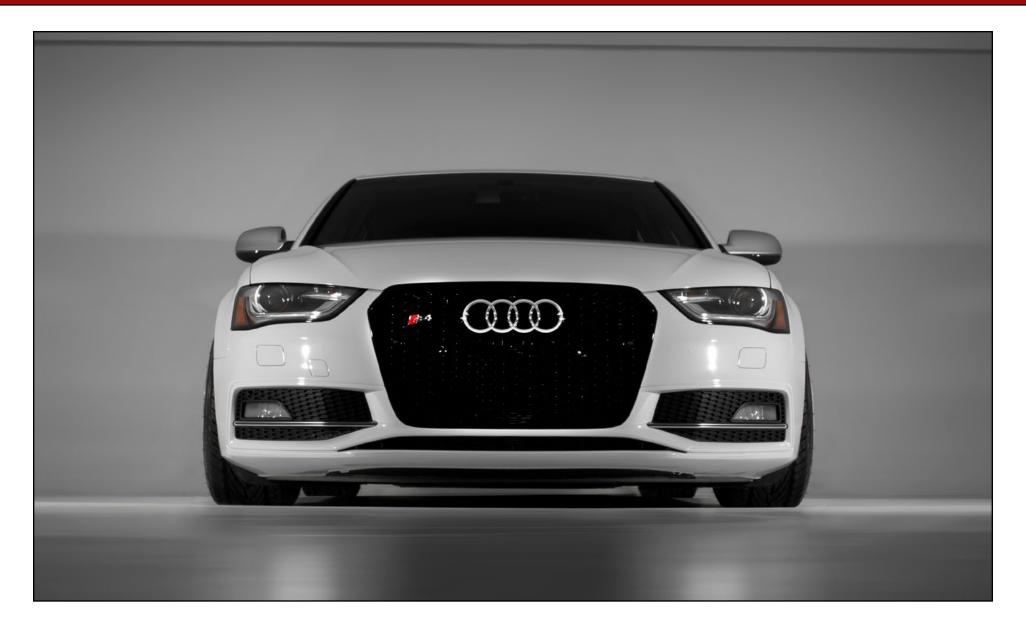




### **SCHWABEN - BUILD THE ULTIMATE TOOL COLLECTION**

At ECS Tuning, we carry a line of high quality Schwaben Tools and Equipment to help you build your ultimate tool collection. Never before has affordability and quality been so closely related. Our entire Schwaben line is subjected to strict in house testing for strength and durability. See what we have to offer and equip your garage without breaking the bank.

### Your ECS Center X-Pipe installation is complete!



#### These instructions are provided as a courtesy by ECS Tuning

Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times to eliminate the possibility of personal injury or improper service which could damage the vehicle or compromise its safety.

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