



Audi 8V A3 Quattro Valved Exhaust System Installation Instructions - [Click HERE to Shop](#)



Skill Level
1 - Easy
Basic Skills
Required

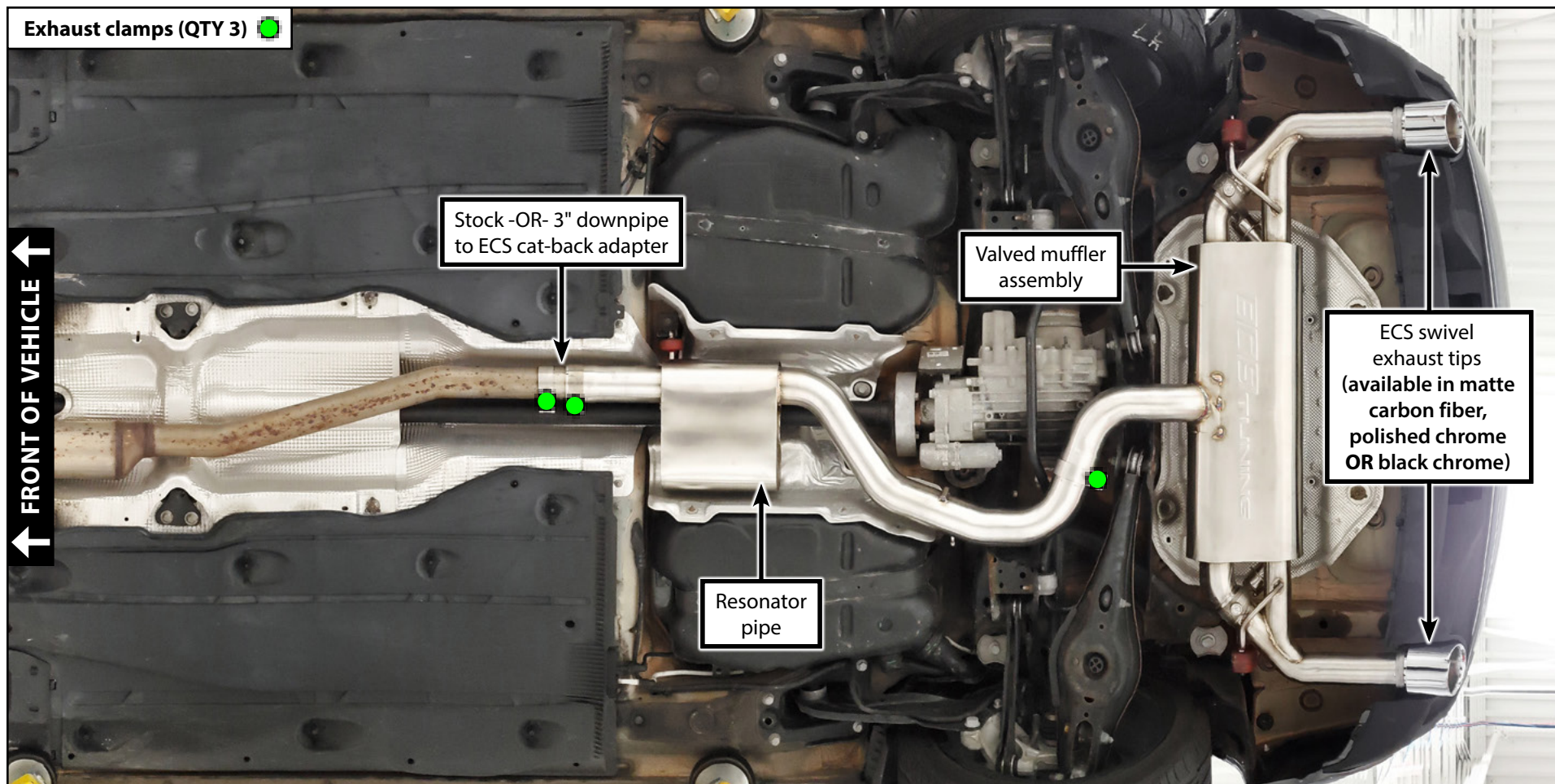


Proper service and repair procedures are vital to the safe, reliable operation of all motor vehicles as well as the personal safety of those performing the repairs. Standard safety procedures and precautions (including use of safety goggles and proper tools and equipment) should be followed at all times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

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KIT CONTENTS



Our valved exhaust system is available with chrome or black chrome tips. Your new valved cat-back system will come with two adapters; one to use with a stock downpipe, and one to use with an aftermarket downpipe. The vehicle we used for these instructions had a stock downpipe, so that is the adapter you will see us using.

REQUIRED TOOLS

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

Standard Automotive Tools

- Protecta-Sockets (for lug nuts) [ES#2221243](#)
- **3/8" Drive Ratchet** [ES#2765902](#)
- **3/8" Drive Torque Wrench** [ES#2221245](#)
- **3/8" Drive Deep and Shallow Sockets** [ES#2763772](#)
- **3/8" Drive Extensions** [ES#2804822](#)
- **Hydraulic Floor Jack** [ES#2834951](#)
- **Torx Drivers and Sockets** [ES#11417/8](#)
- 1/2" Drive Deep and Shallow Sockets [ES#2839106](#)
- 1/2" Drive Ratchet
- 1/2" Drive Extensions
- 1/2" Drive Torque Wrench [ES#2221244](#)
- 1/2" Drive Breaker Bar [ES#2776653](#)
- Bench Mounted Vise
- Crows Foot Wrenches
- Hook and Pick Tool Set [ES#2778980](#)

Required For This Install

- 1/4" Drive Ratchet [ES#2823235](#)
- 1/4" Drive Deep and Shallow Sockets [ES#2823235](#)
- 1/4" Drive Extensions [ES#2823235](#)
- Plier and Cutter Set [ES#2804496](#)
- Flat and Phillips Screwdrivers [ES#2225921](#)
- **Jack Stands** [ES#2763355](#)
- **Ball Pein Hammers**
- Pry Bar Set [ES#1899378](#)
- Electric/Cordless Drill
- **Wire Strippers/Crimpers**
- Drill Bits
- Punch and Chisel Set
- Hex Bit (Allen) Wrenches and Sockets [ES#11420](#)
- Thread Repair Tools [ES#1306824](#)
- **Open/Boxed End Wrench Set** [ES#2765907](#)

Available On Our Website

Specialty Tools

- **Exhaust Hanger Removal Pliers** [ES#2784927](#)

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.



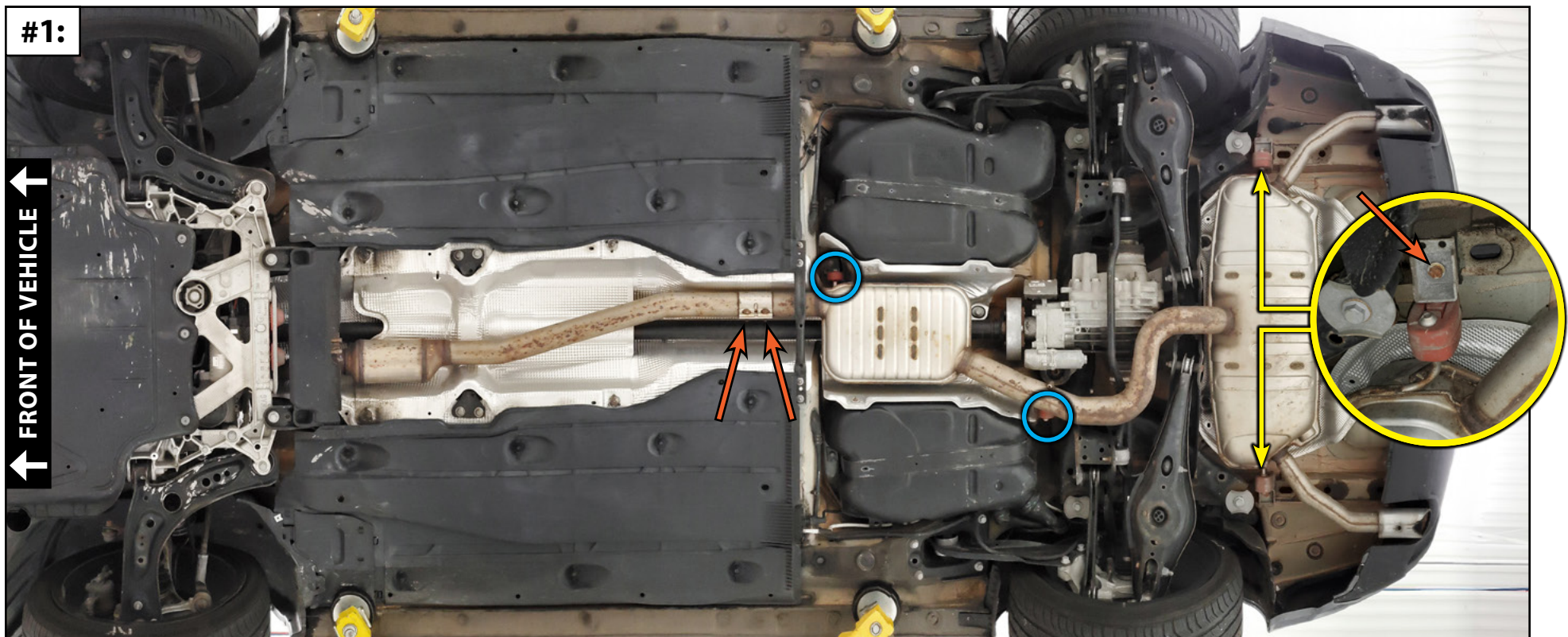
NEVER get underneath a vehicle that is supported only by a jack, and **ALWAYS** make sure that the vehicle is securely supported on jack stands.

REMOVING THE STOCK EXHAUST SYSTEM

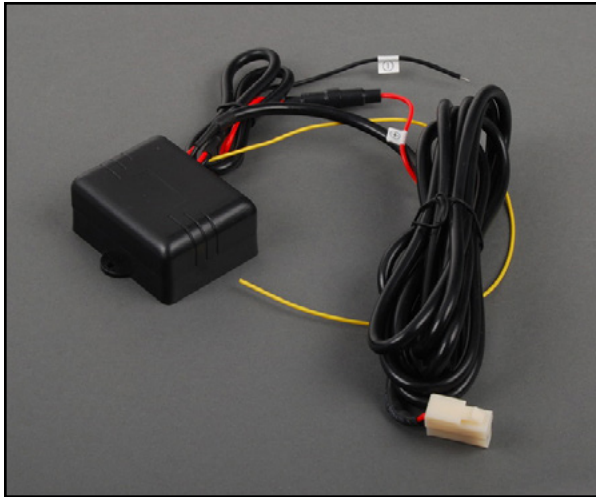
Step 1: 13mm Socket & Ratchet, Exhaust Hanger Removal Pliers

Safely lift and support the vehicle. Support the exhaust system from below. Loosen the clamp which secures the cat-back to the downpipe (arrows in **Photo #1** below), then slide the clamp forward onto the downpipe (not shown).

Release the two frontmost hangers from the exhaust system (circled in **BLUE**) with exhaust hanger removal pliers. Remove the bolts which secure the muffler hangers to the chassis (arrow in the **YELLOW** inset photo). Carefully lower the entire system to the ground and set it aside.



REMOTE EXHAUST VALVE CONTROLLER KIT CONTENTS



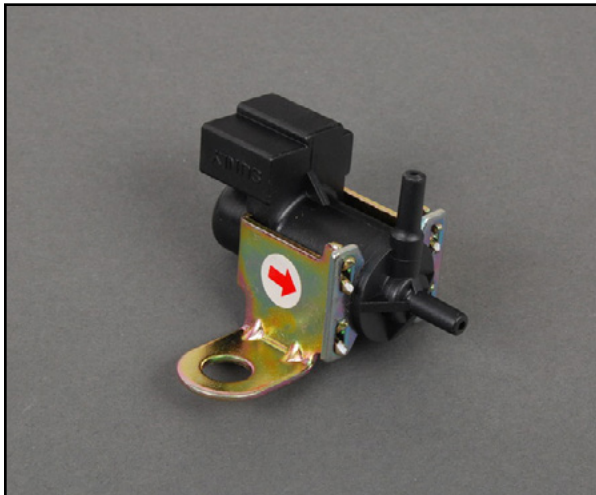
Control Module with Wiring Harness **(QTY 1)**



Vacuum Hose **(QTY 1)**



Remote Controllers **(QTY 2)**



Solenoid Vacuum Valve **(QTY 1)**



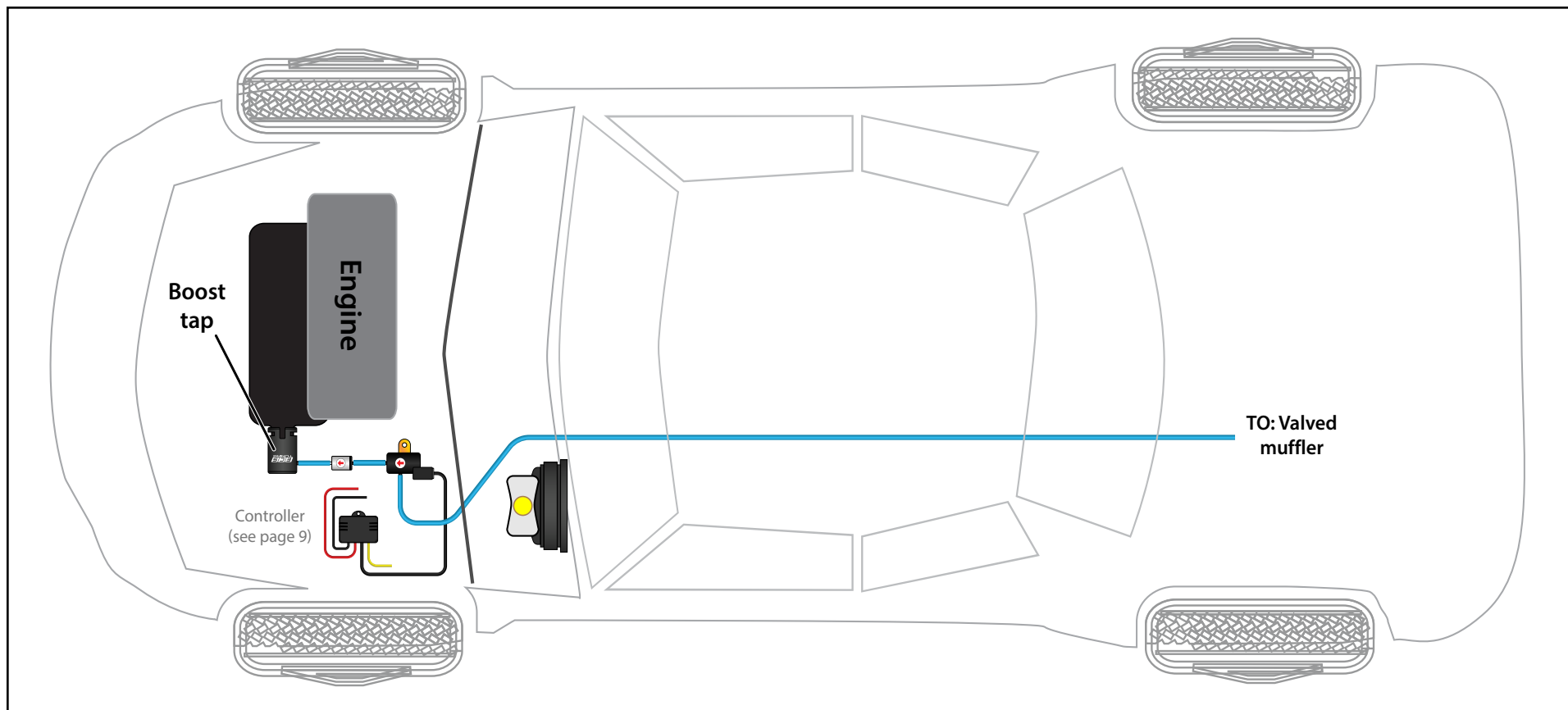
Check Valve **(QTY 1)**



Vacuum Hose T-Fitting* **(QTY 1)**

*This is included but may not be required for this installation

REMOTE EXHAUST VALVE CONTROLLER SYSTEM DIAGRAM

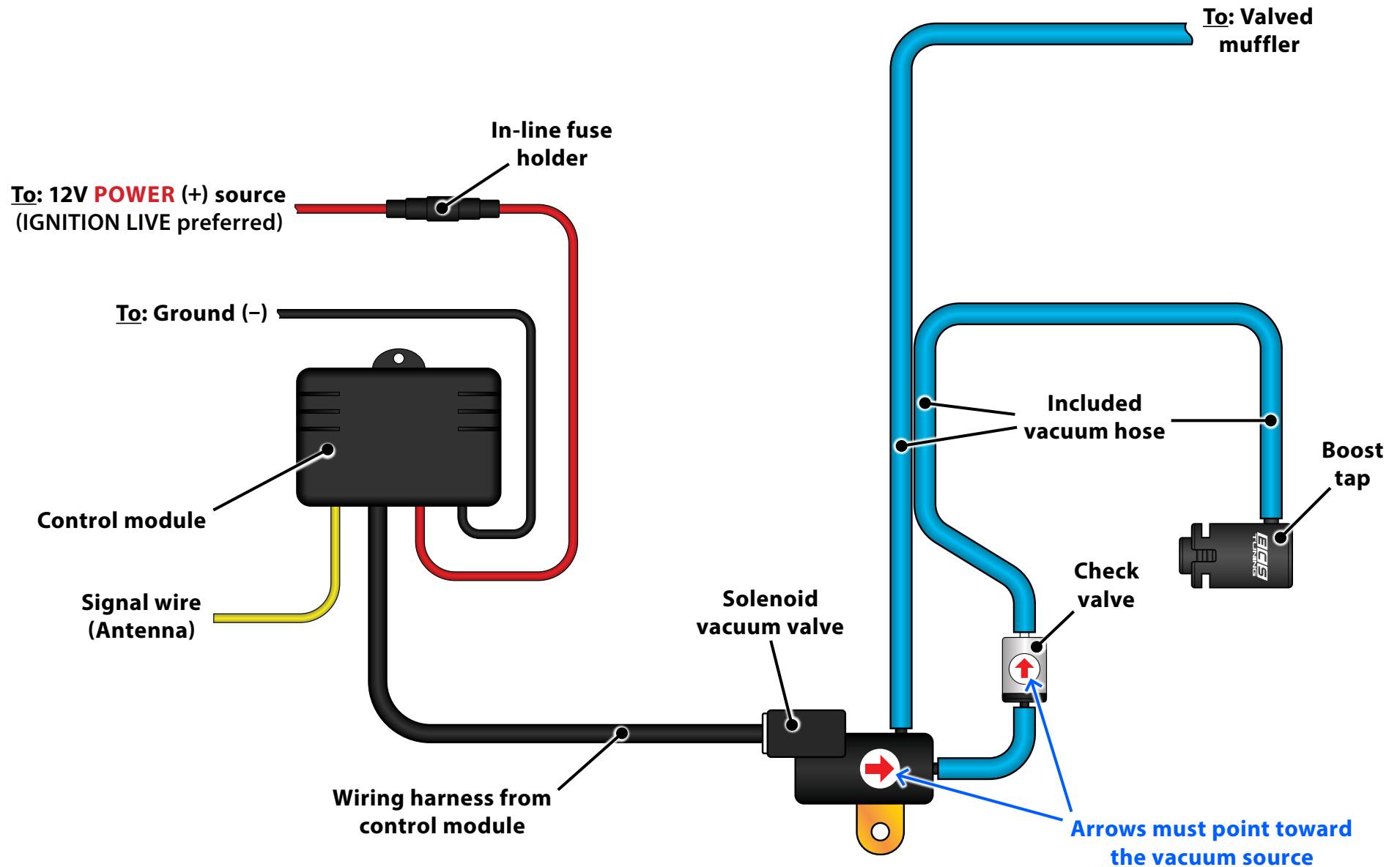


We decided to install our control module and solenoid under the hood. The remote exhaust valve controller system can be installed almost anywhere on the vehicle, if you want to install the components somewhere else that is absolutely OK.

We powered the control module with an [Add-A-Circuit Fuse Holder](#), tapping into an **IGNITION LIVE** fuse under the hood. This means that the control module will not be powered unless the key is turned **ON**. For more information on this please review the PDF which is located under the "Installation" tab on [ES#1906431](#) or [ES#3209653](#).

We then routed the vacuum hose from the boost tap, down along the underbelly and over to where the valved muffler will be located. Please proceed to the next page for a detailed diagram of the entire valve controller system.

REMOTE EXHAUST VALVE CONTROLLER SYSTEM DIAGRAM



INSTALLING THE REMOTE EXHAUST VALVE CONTROLLER

Step 1:

The Remote Exhaust Valve Controller allows the user to open and close the exhaust valve with the push of a button.

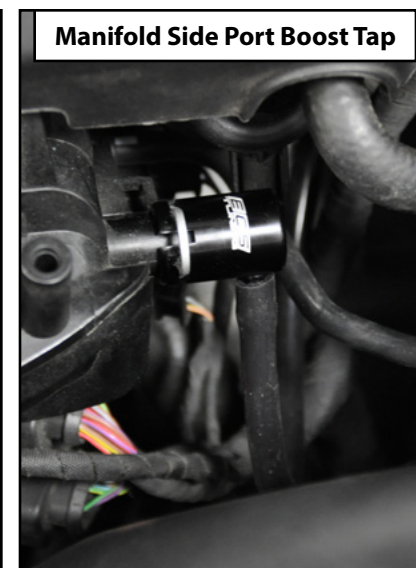
Please familiarize yourself with the Kit Contents on Page 7, and the System Diagrams on Page 8 & 9 before proceeding to the next step.



Step 2:

Our valved exhaust system requires either a boost tap to be installed, or another suitable vacuum source must be found. We offer two boost taps for the 8V A3, both are listed below:

- Throttle Body Boost Tap: [ES#2984817](#)
- Intake Manifold Side Port Boost Tap: [ES#2986667](#)



INSTALLING THE REMOTE EXHAUST VALVE CONTROLLER

Step 3:

Now it's time to mount the solenoid vacuum valve and the electronic control module. For our install we bolted it behind the oxygen sensor wiring harness bracket on the firewall near the brake fluid reservoir (**Photo #1**).

Connect the control module wiring to suitable power (+) and ground (-) sources (**not shown**).

Route the vacuum hose between the solenoid vacuum valve and the boost tap using the diagrams on Page 8 and Page 9 for reference.

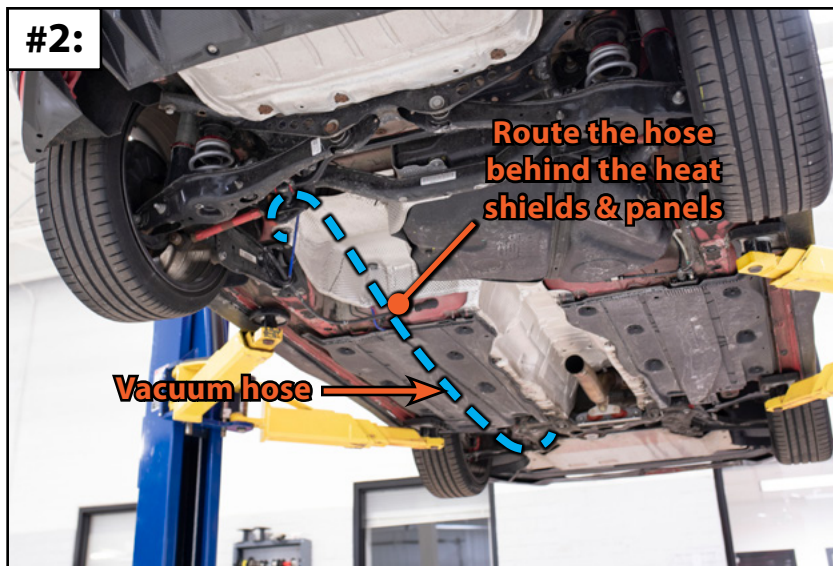


The check valve can be installed anywhere between the solenoid vacuum valve and the vacuum source. Take into consideration the amount of hose needed between these components before cutting the hose to prevent excess waste.

Route the hose down away from any moving or hot components and out through the bottom of the vehicle. Pull the vacuum hose down past the front subframe and toward the rear of the vehicle (**Photo #2**). Route the hose to where the muffler will be located, securing it in place with zip ties if necessary.



You're now ready to install the new exhaust system, please proceed to the next page.

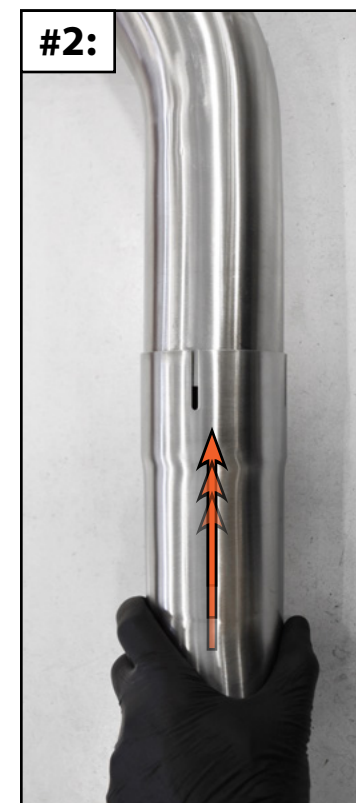
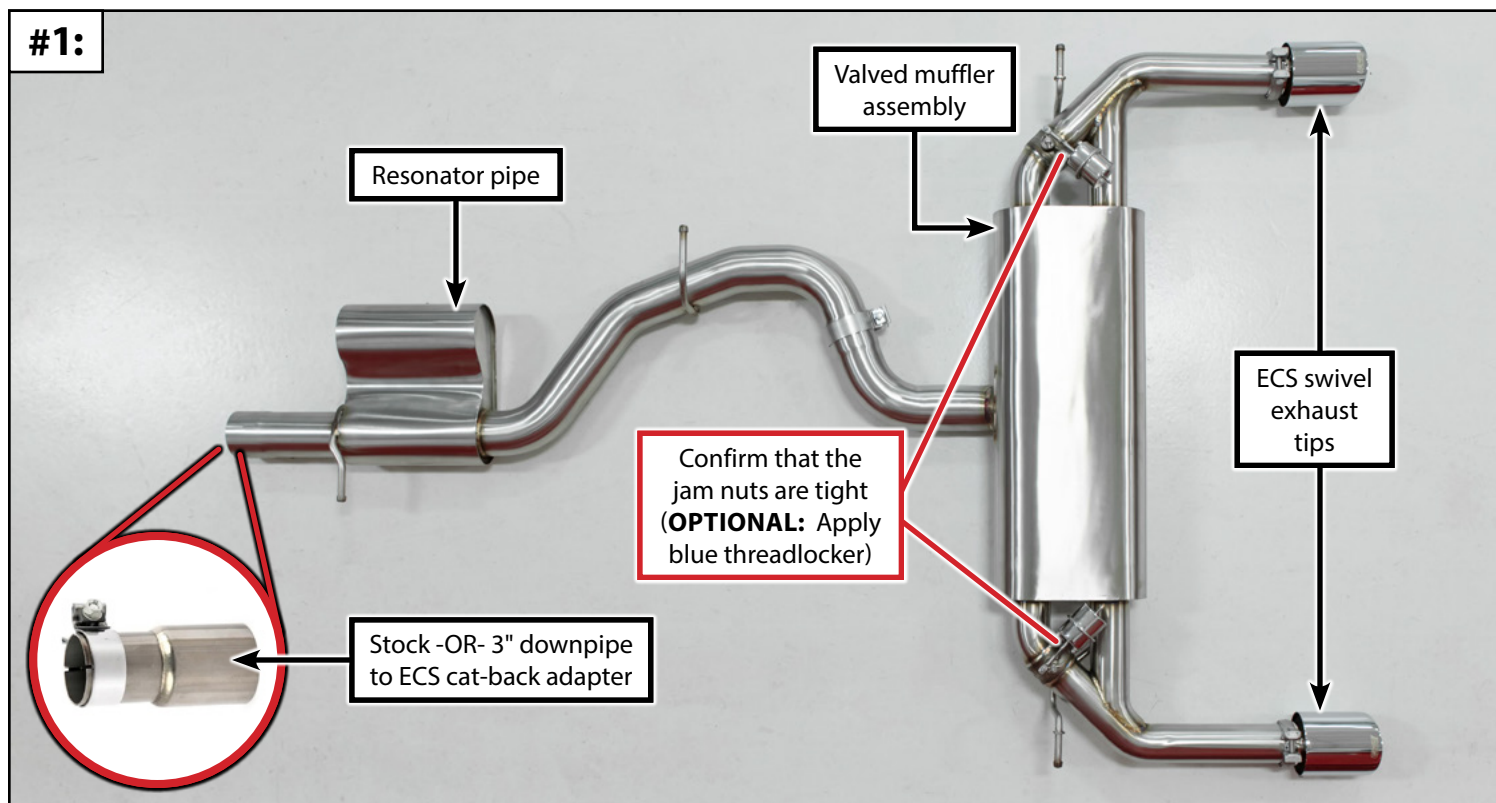


INSTALLING THE NEW EXHAUST SYSTEM

Step 1: Ball Pein Hammer

Before we begin it's a good idea to unpack your new exhaust system and carefully lay it out on the floor (**Photo #1**). Inspect all of the slip joints for any signs of damage during shipping. Test fit the pipes together at every slip joint to make sure they slide together easily (**Photo #2**). If they do not slide together easily, gently tap on the ends of the pipes with a ball pein hammer to straighten them, then recheck fitment. Confirm that the jam nut is tight (**not shown**).

Please note that during this installation, you will be installing the exhaust from front-to-back **WITHOUT** tightening any of the clamps. Once the system is installed, we will then show you how to position the system properly and you will tighten the clamps **AFTER** that is complete. Proceed to the next page once all of the slip joints slide together easily.



INSTALLING THE NEW EXHAUST SYSTEM

Step 2: 8mm Socket & Ratchet

Remove the rubber hangers from the stock muffler and transfer them onto the new one. Be sure to install them so that the bolt holes are oriented toward the inside of the vehicle (**RED** note in **Photo #1**). They must be installed in this orientation due to the larger size of the new muffler assembly.



INSTALLING THE NEW EXHAUST SYSTEM

Step 3: 13mm & 15mm Sockets, Ratchet

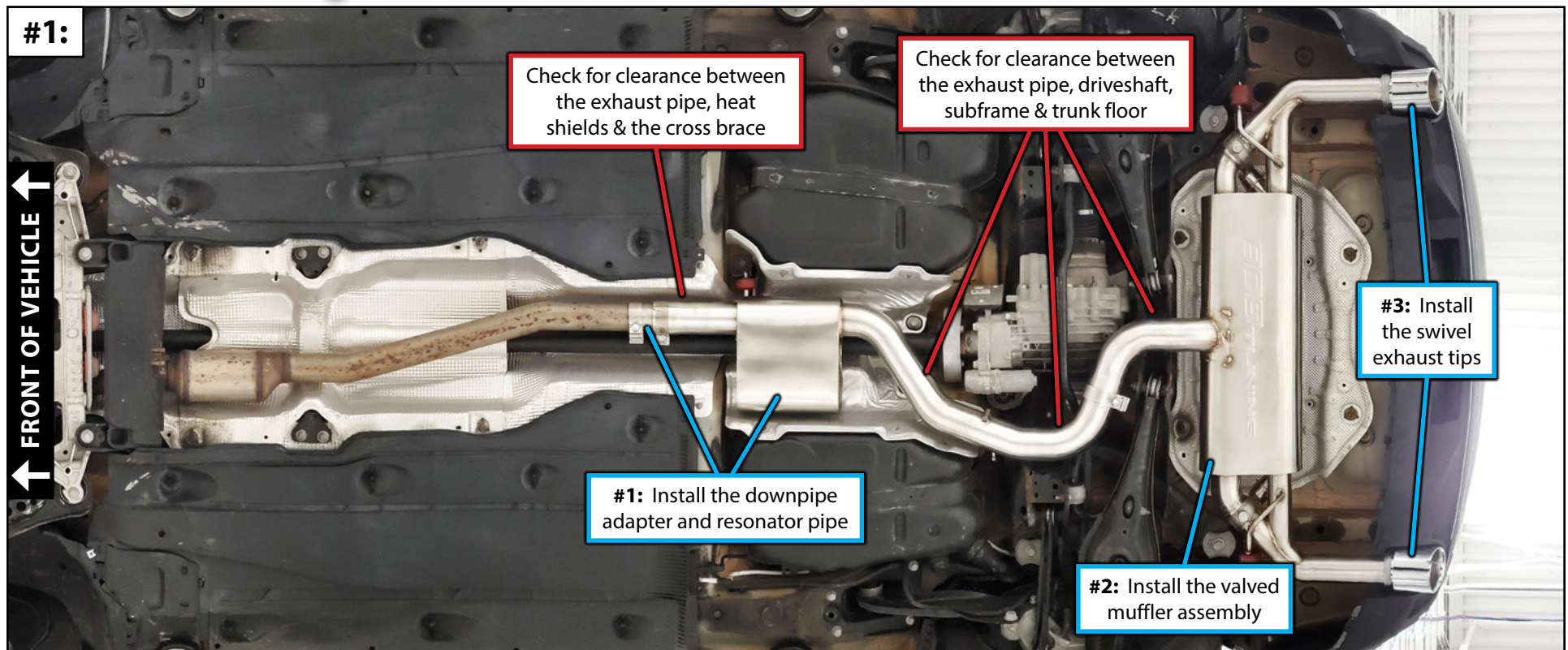
Loosely install the exhaust system in the order shown in **Photo #1** below.

Next, we'll need to adjust the exhaust system for proper fitment. The key to proper adjustment is patience, take your time and **DO NOT** fully tighten any of the clamps until **AFTER** you've performed all of the steps up through Page 16.

Closely inspect the exhaust system from front to back, we need to check for clearance between the pipes and nearby chassis components.



CAUTION: You can tighten the exhaust clamps until they are "snug", but **DO NOT USE AN IMPACT WRENCH** and do not fully tighten them yet!



INSTALLING THE NEW EXHAUST SYSTEM

Step 4:

Check the hangers on the muffler and the extension pipe to ensure that they are sitting level side-to-side (**Photo #1 & Photo #2**).

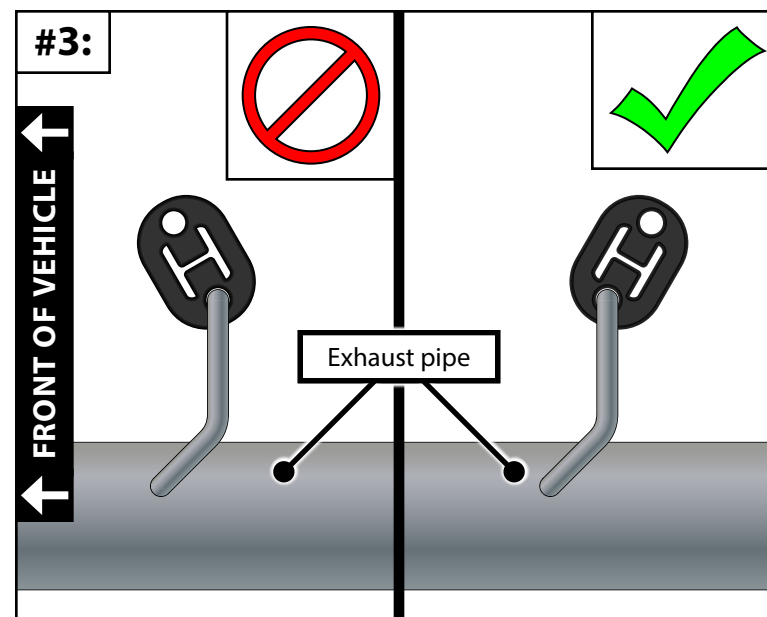
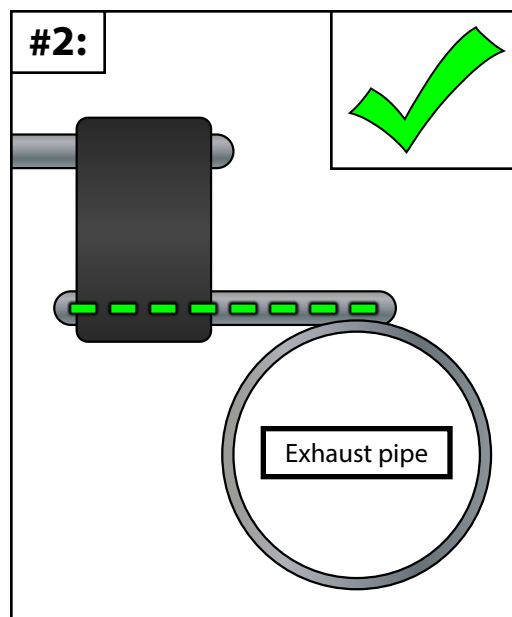
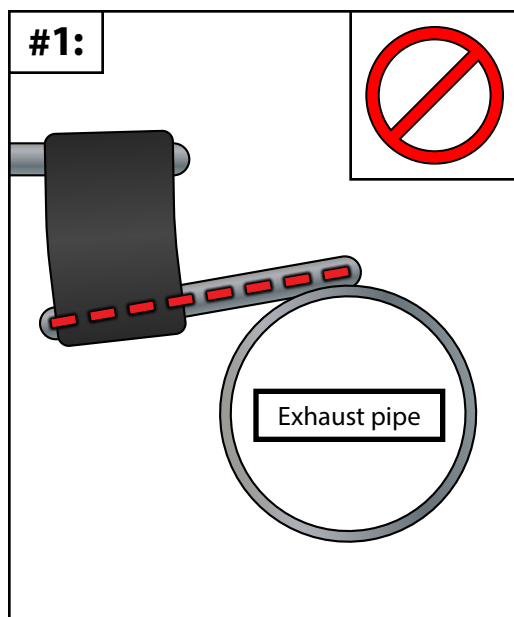
Finally, we want to ensure that the exhaust hangers are rotated at least slightly toward the front of the vehicle (**Photo #3**). The exhaust hangers should be inclined toward the front of the vehicle so that lower hole is approximately 10-15mm forward of the upper hole, this will allow the hangers to pivot backwards as the system heats up and expands.



Due to differences in manufacturing, as well as variations from one car to another, you might not be able to get all of your hangers to pitch forward. This is acceptable as long as they are at least close to vertical.



CAUTION: You can tighten the exhaust clamps until they are “snug”, but **DO NOT USE AN IMPACT WRENCH** and do not fully tighten them yet!



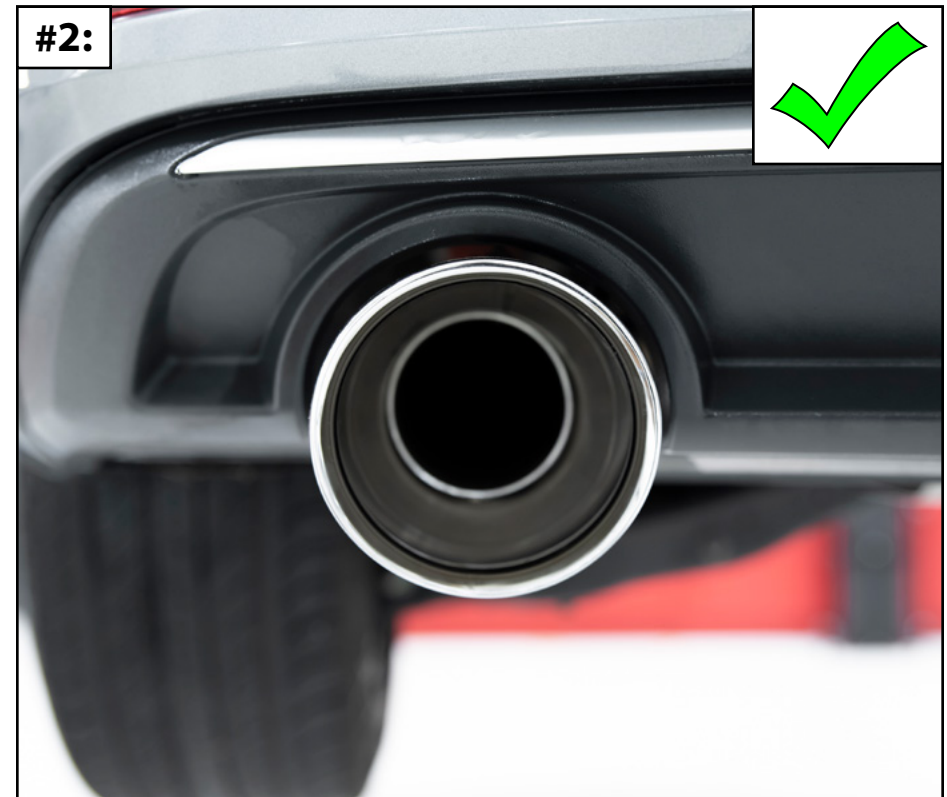
INSTALLING THE NEW EXHAUST SYSTEM

Step 5: 13mm Socket & Ratchet

Center the exhaust tips inside the bumper cut outs (**Photos #1 & #2 below**).



CAUTION: You can tighten the exhaust clamps until they are “snug”, but **DO NOT USE AN IMPACT WRENCH** and do not fully tighten them yet!



INSTALLING THE NEW EXHAUST SYSTEM

Step 6: 13mm & 15mm Sockets, Ratchet & Torque Wrench

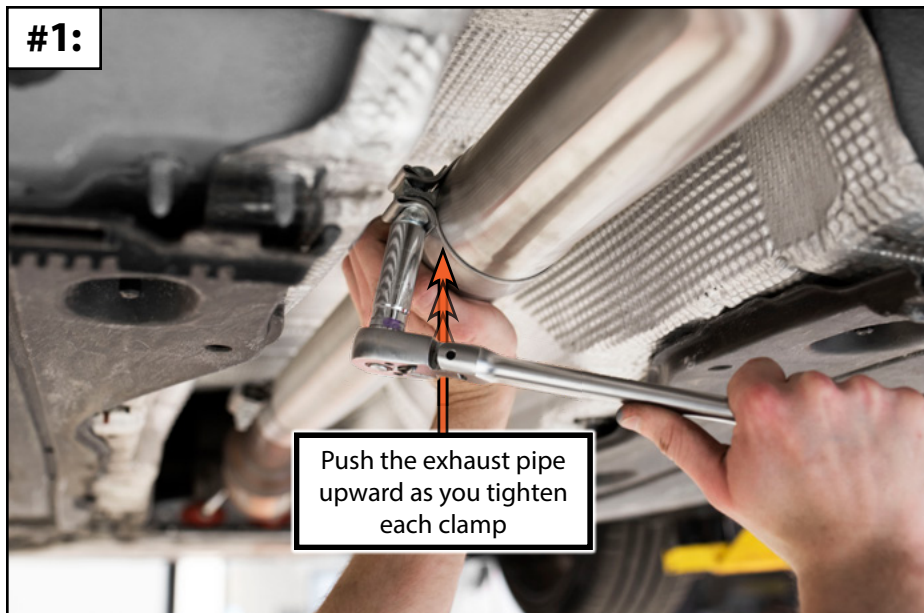
Push upward on the exhaust system as you fully tighten each clamp from the front of the system to the back (**Photo #1**). Allow the exhaust to settle, then check again for clearance around all pipes. Connect the vacuum hoses to the muffler valves (**Photo #2**).

Wipe any oil, grease, or fingerprints from the exhaust system. Reinstall the belly pans and chassis cross brace.

Perform a system check by performing the following steps:

- Start the engine.
- Press the “unlock” button on the remote to open the valves.
- Press the “lock” button to close the valves.
 - You should be able to hear a difference in both exhaust tone and volume when the valves are opened or closed.
 - Looking under the vehicle you should be able to see the valve cycle back and forth (not shown).

Recheck all fasteners after the vehicle has been driven 500 miles.



PROGRAMMING THE HOMELINK® BUTTONS

Step 1:

It is possible to program the Homelink® buttons inside your vehicle and use them to open and close the exhaust system valves. Since the valve in the muffler is **normally closed**, the **UNLOCK** button will **OPEN** the valve, and the **LOCK** button will **CLOSE** the valve.

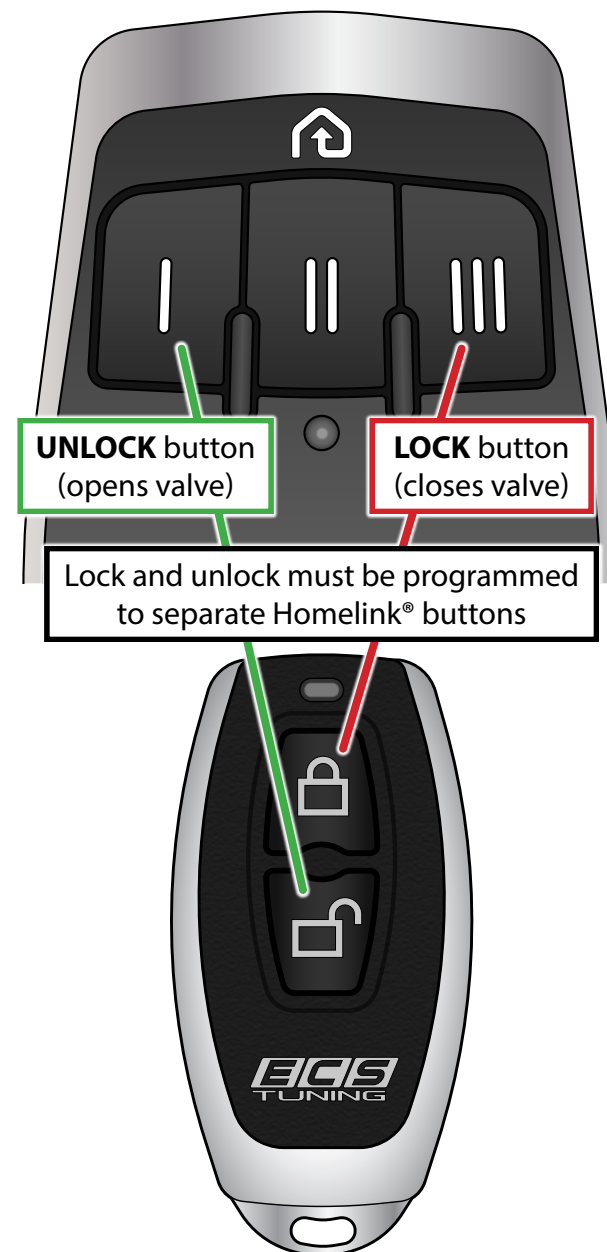
We recommend you check your owner's manual programming information, or you can visit the Homelink® website for their vehicle specific instructions:

- <https://homelink.com/program/watchvideo>

Here are a few notes to help you along the way:

1. You will need to program **ANY TWO** of your Homelink® buttons to control the exhaust system valves: one button will be used to open the valve, the second button will close it.
2. Pay close attention to where the manufacturer suggests pointing the remote during pairing. Some systems are very sensitive to location.
3. Depending on the method used to program the Homelink® system, it is possible that any previously programmed remotes will be deleted and will need to be reprogrammed.
4. If you have difficulty programming your Homelink® buttons, it might help to try the following:
 - Start the programming procedure over again.
 - Check your remote batteries.
 - Review the troubleshooting tips in your owner's manual.

Your ECS Exhaust System installation is complete!



Your ECS Valved Exhaust System 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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