

# Installation Guide

Porsche 991.1 Carrera S / GTS / Base with PSE  
Valved Performance Exhaust System

**SOUL**  
PERFORMANCE PRODUCTS

**Disclaimer:** This installation guide is intended to clarify the installation of your new Soul Performance Products exhaust. **Please review this guide in full before beginning installation.** Please take proper precautions and safety measures when working on your vehicle and perform this work at your own risk



## INCLUDED COMPONENTS:

- (1) X-Pipe Section
- (2) Muffler Inlet Pipes, Left and Right
- (2) Muffler Outlet Pipes, Left and Right
- (4) M8-1.25x40mm Bolts
- (2) M8-1.25x30mm Bolts
- (12) M8 Flat Washers
- (6) M8-1.25 Nuts
- 6" Heat Shielding Wrap
- 12" Vacuum Line
- (2) 68-73mm Mikalor Clamps
- (2) 2.5" AccuSeal Clamps
- (2) 2.5" Torca Clamps
  
- (2) Exhaust Tips (if purchased)
  
- Valve Controller Kit (if purchased)

Valve Operation Check \_\_\_\_\_

Shipped on \_\_\_\_/\_\_\_\_/\_\_\_\_

Packing Sign Off \_\_\_\_\_



**Pictured Left:** Remove factory mounting hardware from the header/muffler flanges on both sides. In most applications these will be a 13mm nut/bolt combination.



The two upper holes on the flanges also retain the bracket for the side mufflers



**Pictured Right:** Loosen the 14mm hardware on the factory muffler inlet pipe clamps



**Pictured Left:** Disconnect the side muffler outlet pipe from the X-Pipe inlet pipe as shown.



**Pictured Right:** Using the 6mm Allen key, loosen the two muffler band straps and slide them off of the muffler cans. Remove the vacuum hoses from the exhaust valves



**Pictured Left:** Loosen the 14mm hardware on the exhaust tip clamp and slide the tip off towards the rear of the car.



**Pictured Left:** Carefully guide the exhaust down and off of the car.



**Pictured Right:** Install inlet pipes loosely with AccuSeal clamps onto X-Pipe section.



**Pictured Left:** Install system onto vehicle



**Pictured Right:** Loosely install gaskets and supplied 13mm hardware.



**Pictured Left:** Slide factory clamp over from factory side mufflers onto SOUL X-Pipe



**Pictured Left:** Torque down three bolt header flanges

**Pictured Right:** Torque down AccuSeals holding X-Pipe to inlets



**Pictured Left:** Tighten factory clamp connecting factory side mufflers to SOUL exhaust

**Pictured Right:** Stretch Mikalor clamps to go over factory mounting brackets and SOUL X-pipe



**Pictured Left:** Position Mikalor clamp and tighten (30 ft-lbs)



**Pictured Left:** Insert T fitting into factory vacuum line. Cut new vacuum lines to length by testing on vehicle. Wrap vacuum lines with included heat shielding.

**Pictured Right:** Install wrapped vacuum lines between factory vacuum source and SOUL valves



**Pictured Left:** Loosely install Torca clamps onto outlet pipes. (15mm nuts)

**Pictured Right:** Loosely install outlet section onto SOUL X-pipe



# OPTIONAL FACTORY TIP OPTIMIZATION

It's possible to increase the primary flow path of the factory tips by removing part of the inner shell, effectively increasing the inner diameter from 1.5" to 2.5". We recommend this modification if you are reusing your factory tips to take full advantage of the increased flow from the SOUL Valved Performance Exhaust.



*If you are not comfortable performing this procedure, please contact us for a quote.*

**Pictured Left:** These small spot welds will need to be ground down to remove the tip insert.



**Pictured Right:** Using a grinder or dremel tool, carefully grind the spot welds down.



**Pictured Left:** You can grind down through the welds or leave a slight amount of material then punch the inner shell out with a large socket or punch tool as shown below.



You now have 2.5" of clearance in the tip inlet. We recommend light grinding around the lip to remove any burrs or rough edges from where the inner tip section was attached.





**Pictured Left:** Install, position, and tighten down tips.



**Pictured Right:** Position outlet pipe into center of tips



**Pictured Left:** Tighten Torca clamps down (45 ft-lbs)



**Pictured Right:** Newly installed SOUL exhaust



**BE SURE TO THOROUGHLY CLEAN EXHAUST TO REMOVE FINGERPRINTS BEFORE STARTING**

**Note:** You may find that after your first full heat cycle of the exhaust that you need to re-adjust the tip placement to your liking. Additionally, the tone and sound of your exhaust will likely change as the mufflers get broken in, roughly a thousand miles or so.

You have now successfully completed the installation of your new Soul Performance Products exhaust! Thank you for your business and if you have any questions during/after the installation please do not hesitate to call or email!

**SOUL PERFORMANCE PRODUCTS**

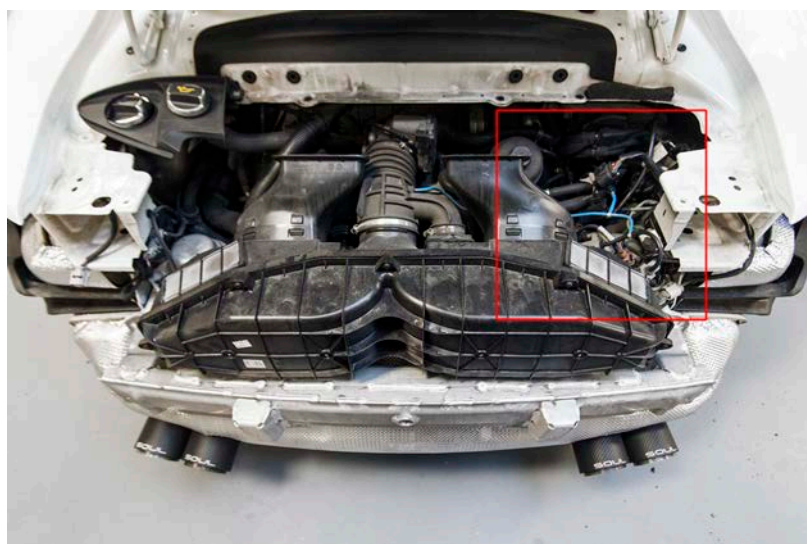
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# VALVE CONTROLLER INSTALLATION GUIDE

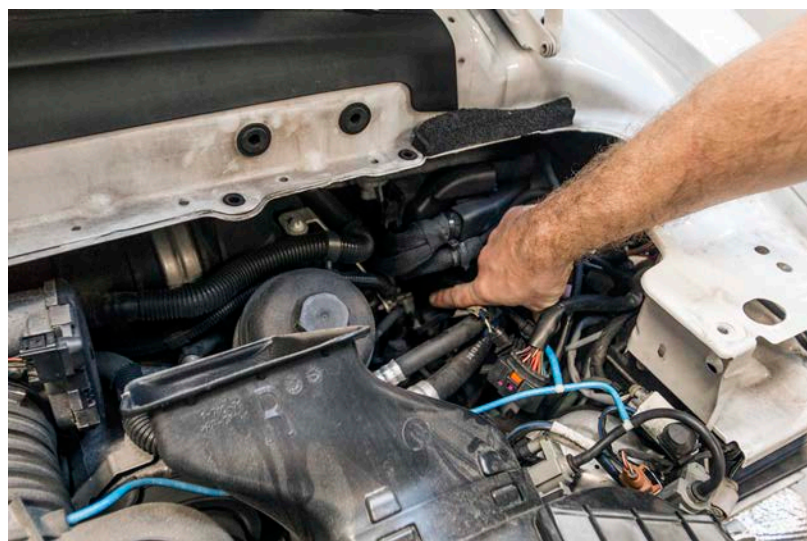
Removal of the factory rear bumper is required for valve controller installation to access wiring and vacuum sources. Read guide thoroughly. If you are questioning the installation we highly recommend having it professionally installed.



## WIRING AND VACUUM SOURCE LOCATION

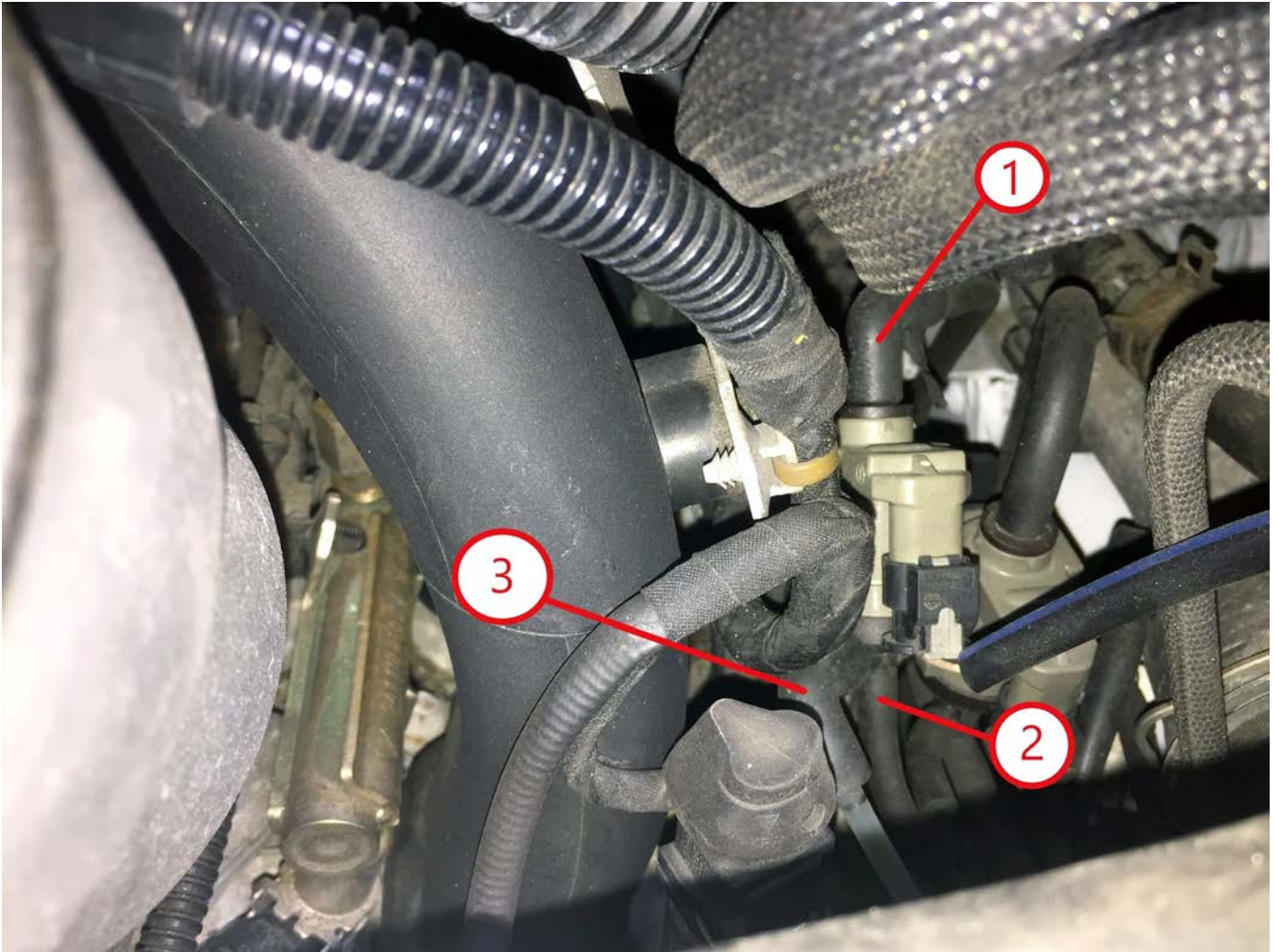


- **Vacuum sources located in back passenger side area toward firewall**



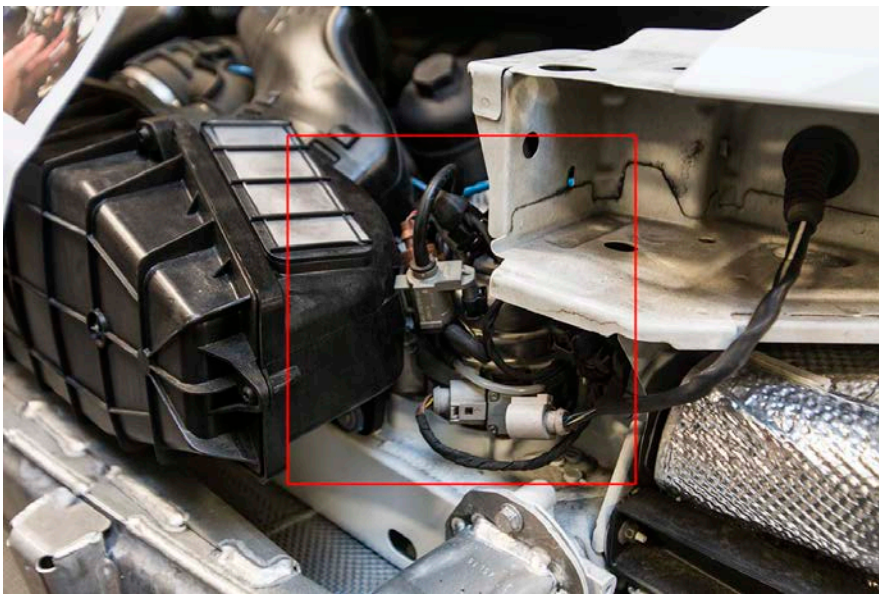
# VACUUM GUIDE

(1) Disconnect and cap (cap not included) end of this line, this is a fresh air feed connect to the airbox that is no longer needed.



(2) This is the vacuum supply line is to be connected to the SOUL valve controller solenoid. Disconnect this and attach to the SOUL solenoid. Do not forget to install the supplied check valve in-between. Arrows point to the engine vacuum supply.

(3) is the OEM line which feeds down and splits to connect to the factory valves. We recommend hooking this up to the SOUL valve solenoid. This way you will not have to run new lines to the valves.



# TAP POWER SOURCE HERE



We recommend tapping into the solenoids attached to the factory airbox for a key hot power. **Test wiring to find and ensure proper power before proceeding forward.** Make sure you ground the unit to the body/chassis not the wiring harness.



Recommended grounding spot is at this bolt. Grounding with an eyelet is recommended.