



Innotech Performance

Exhaust

Vehicle exhaust system
technology

Product Installation Manual

**Applicable model:
Porsche 997 GT3**

Preface

This document explains installation procedures that relates setting and operation methods for the exhaust sold by IPE.

Important Notice

IPE developed this exhaust according to the improvement of stock .

Therefore, there will be no effect of the car from the original manufacturer after installation. There is an inductive power supply function between the car key and the car for many vehicle models.

Therefore, the car key should be kept away from the car with a distance of at least five meters to maintain safe conditions.

The exhaust of a car right after driven is still in a high temperature. Thus, please wear heat insulating gloves to replace the exhaust, or perform the replacement after the temperature lowered to avoid burns.

For avoiding the generation of resonance, please don't let the valve open too early when setting the valve to open automatically. The opening of the valve is recommended to be set to 60% of gas pedaling. Please refer to page 21 for the explanation of detail setting.

IPE exhaust is designed according to the stock engine data. In case the engine computer upgraded for increasing horse power, obvious resonance in conjunction with this exhaust could occur. IPE also provide revised exhausts for such vehicles, please contact us for further details.

Tools required for Operating Procedures



Inner hexagonal wrench
6mm



**Star groove wrench, star
driver**
T30

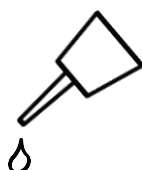


**Outer hexagonal
wrench**
13mm 、 22mm



Torque wrench

Torque Wrench



Rust Preventive spray



iPE 9917 GT3 Assembly of product appearance



Procedures and related points for Demounting Stock Exhaust

1. Demount engine bottom protect shield by T30 star groove wrench. photo1-1

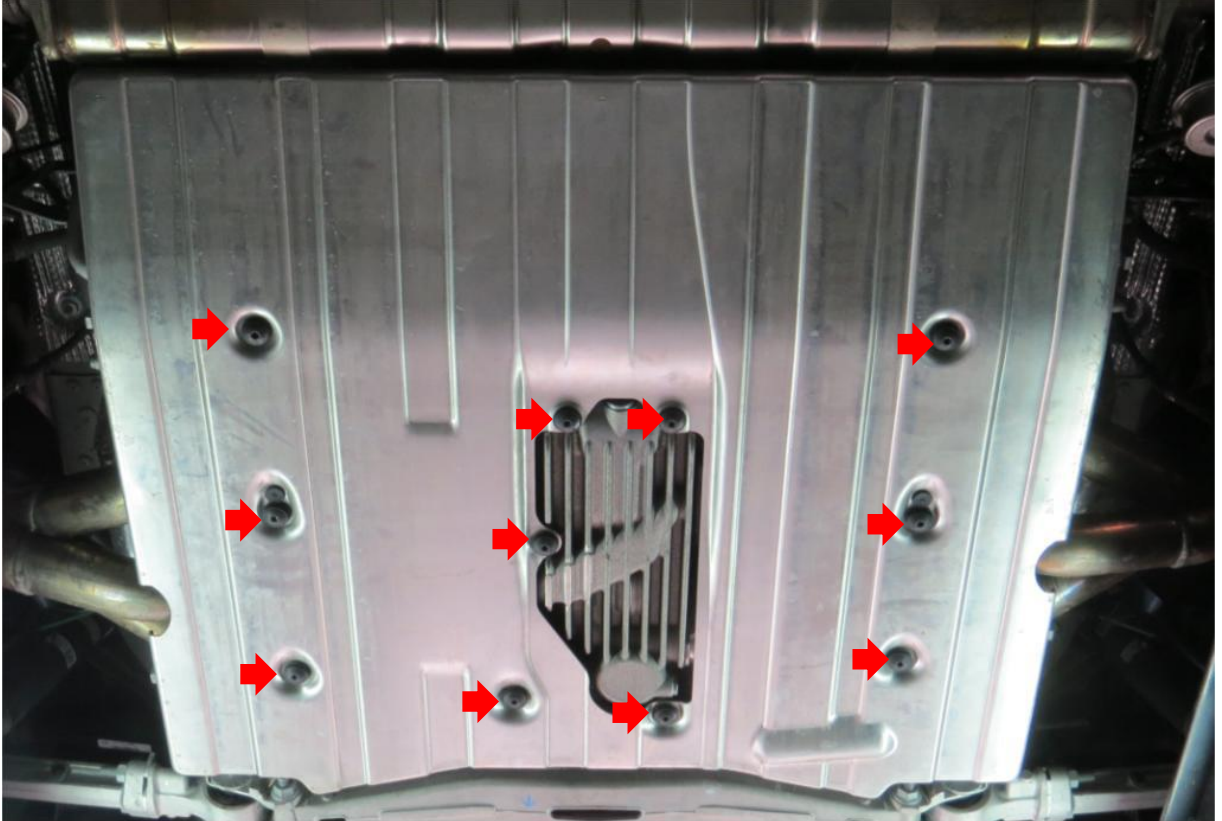


Photo 1-1

2. Demount clamps on both sides of muffler by 13mm wrench. photo1-2

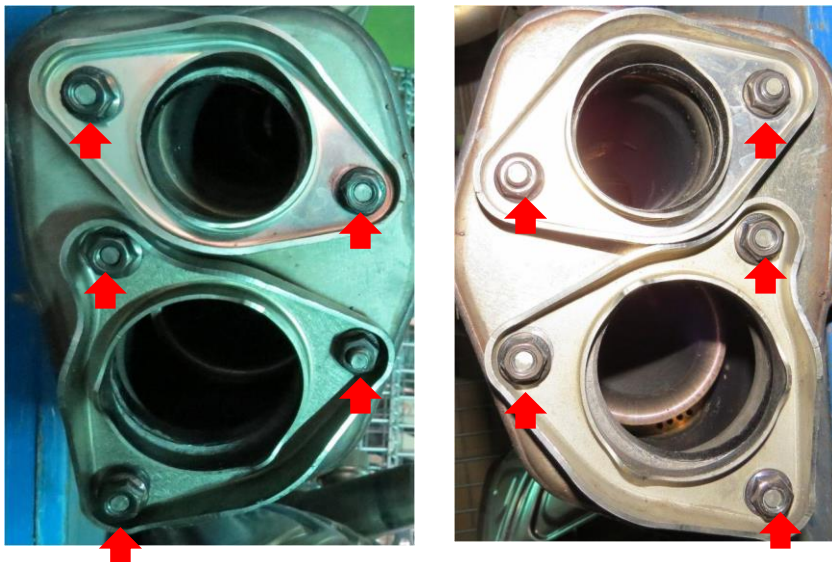


Photo 1-2

3. Loosen clamp of stock muffler by 6mm inner hexagonal wrench, and demount muffler by moving slightly right and left. Photo 1-3

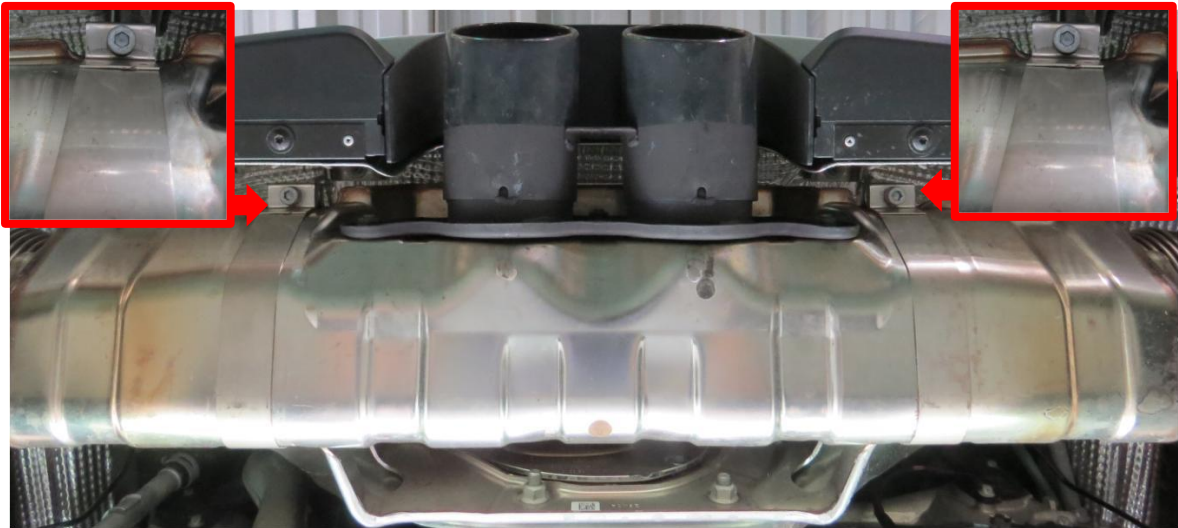


Photo 1-3

4. Demount front & rear O2 sensors by 22mm wrench, and muffler hanger by 13mm wrench. (Arrows in Photo 1-4) Demount stock valve pipe. (Photo 1-4 red circles)

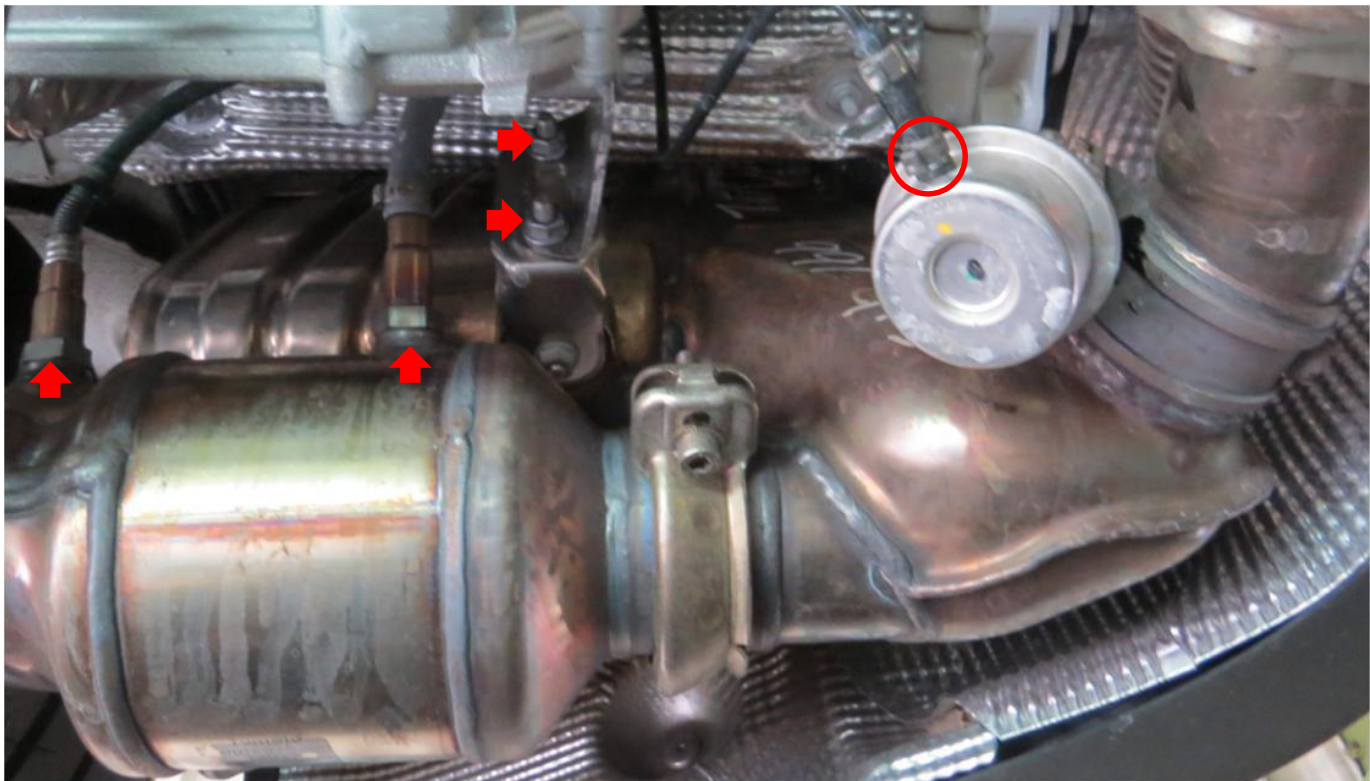


Photo 1-4

5. Demount headers by 13mm wrench. (Photo 1-5) Muffler & headers could be taken out by direction of angel.

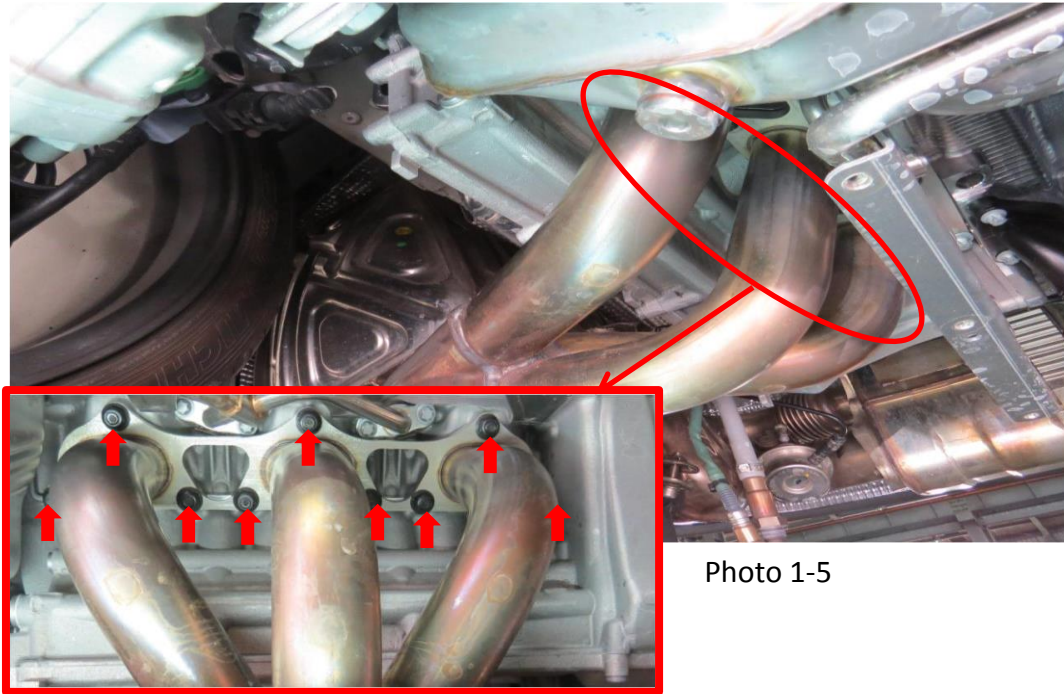


Photo 1-5

6. Demount stock vacuum source by left & right side of three-way branch. (Photo 1-6) And take out the pipe. (Photo 1-7)

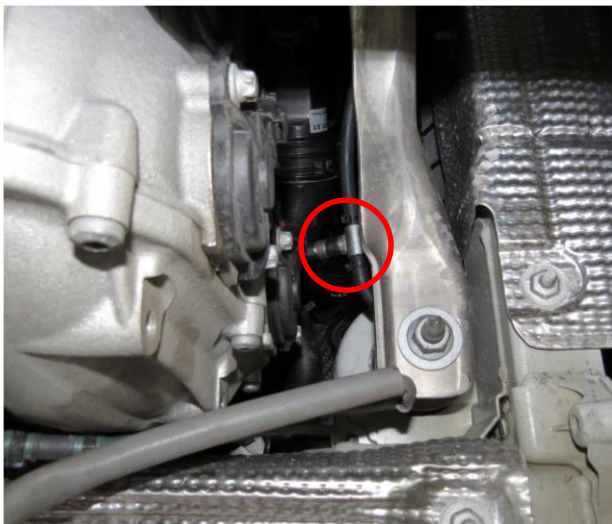


Photo 1-6

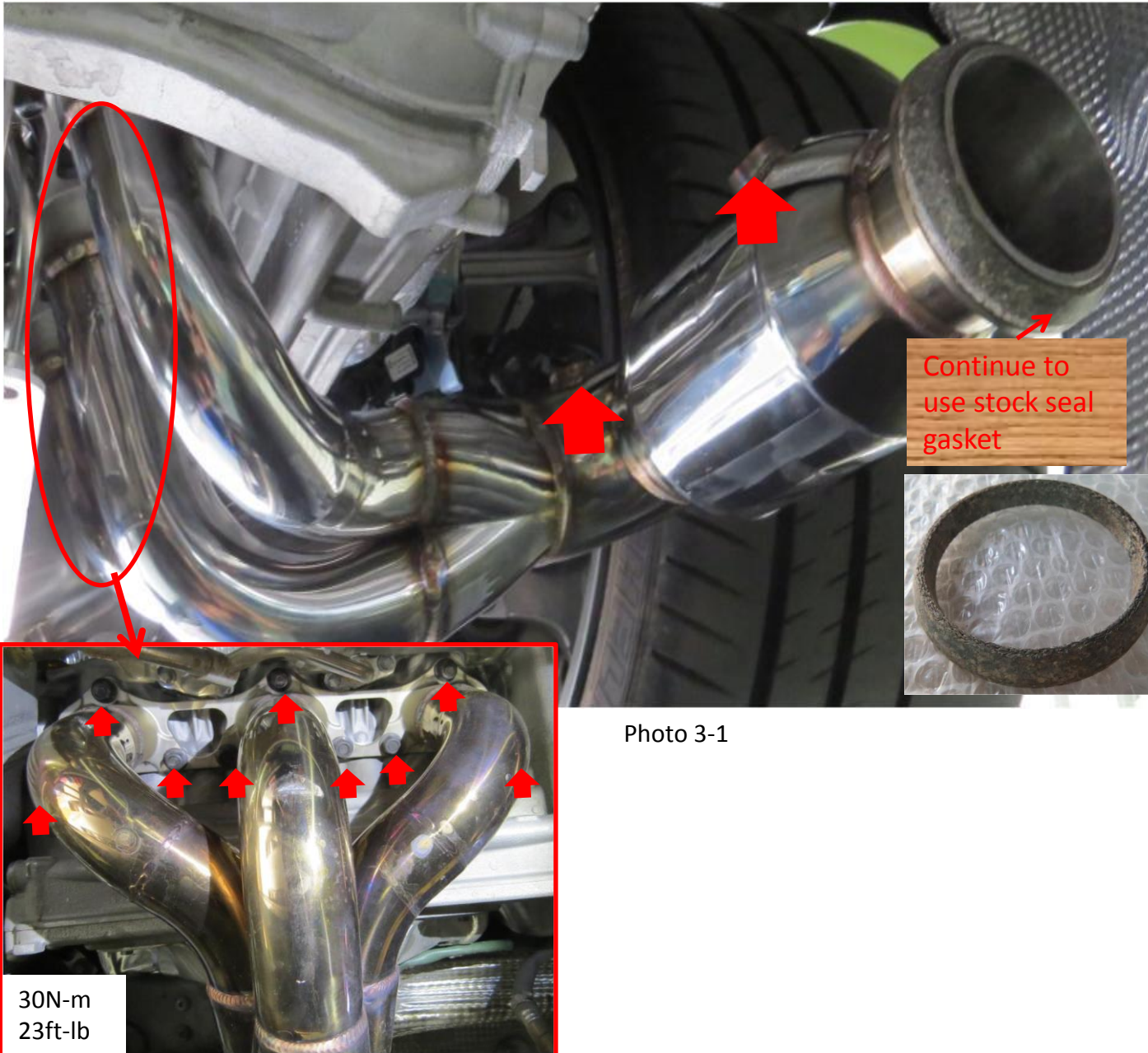


Photo 1-7

~Above stock exhaust demounting completed ~

Procedures and related points of iPE Exhaust installation

1. Mount headers by 13mm wrench to install cat pipe. (Photo 3-1 red circle) Mount front & rear O2 sensors by 22mm wrench. (arrows in photo 3-1)



2. Assemble muffler & link pipe with 69.3 clamp (photo 3-2 red circles) and mount tips (arrows in photo 3-2) , lock tightly after installing muffler.

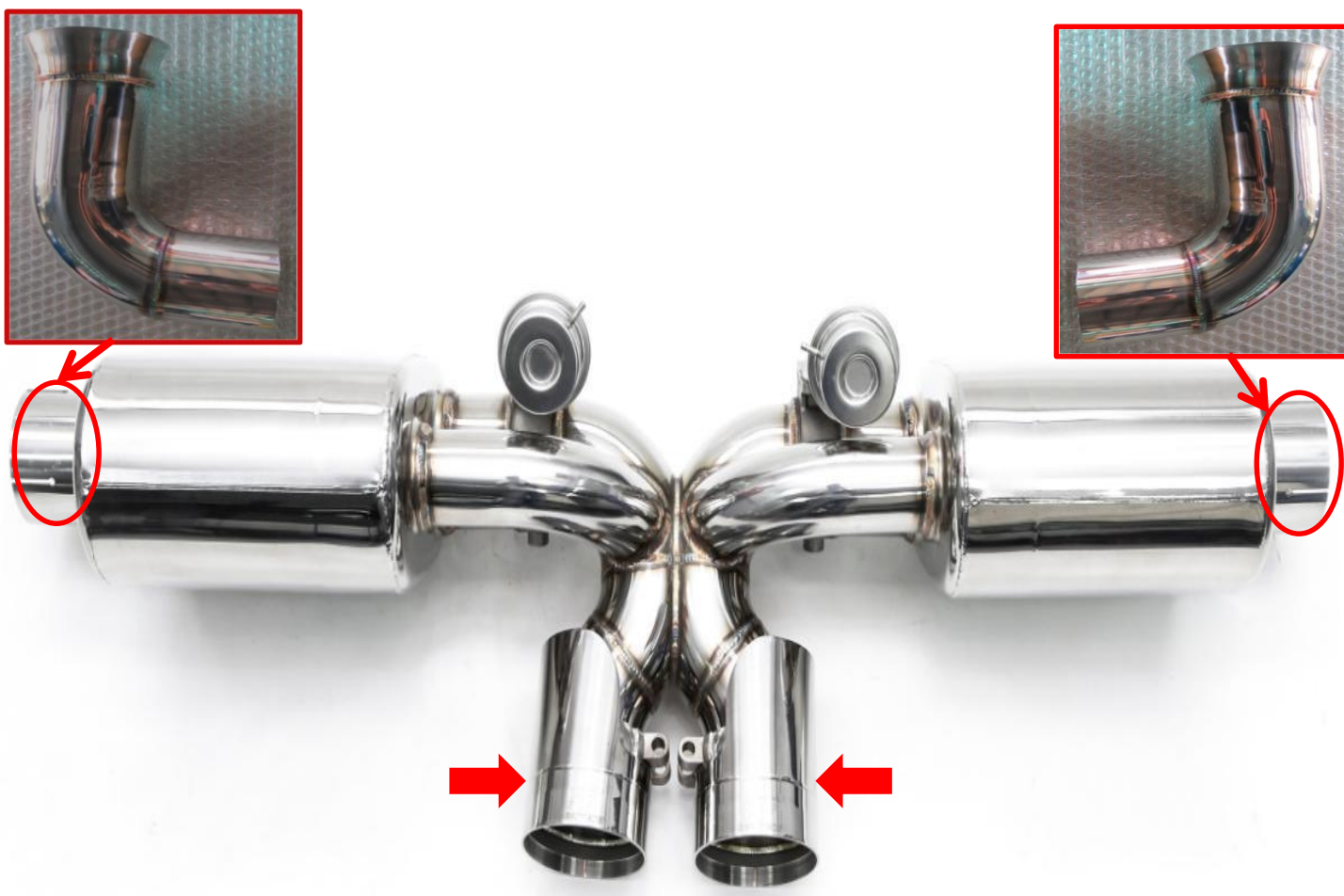


Photo 3-2

3. Install muffler and tighten with metal band (arrows in photo 3-3), connect muffler link pipe to cat pipe and tighten with stock clamps (red circle in photo 3-4). Adjust tips position and lock tightly screws of muffler metal band & cat pipe by 13mm wrench.

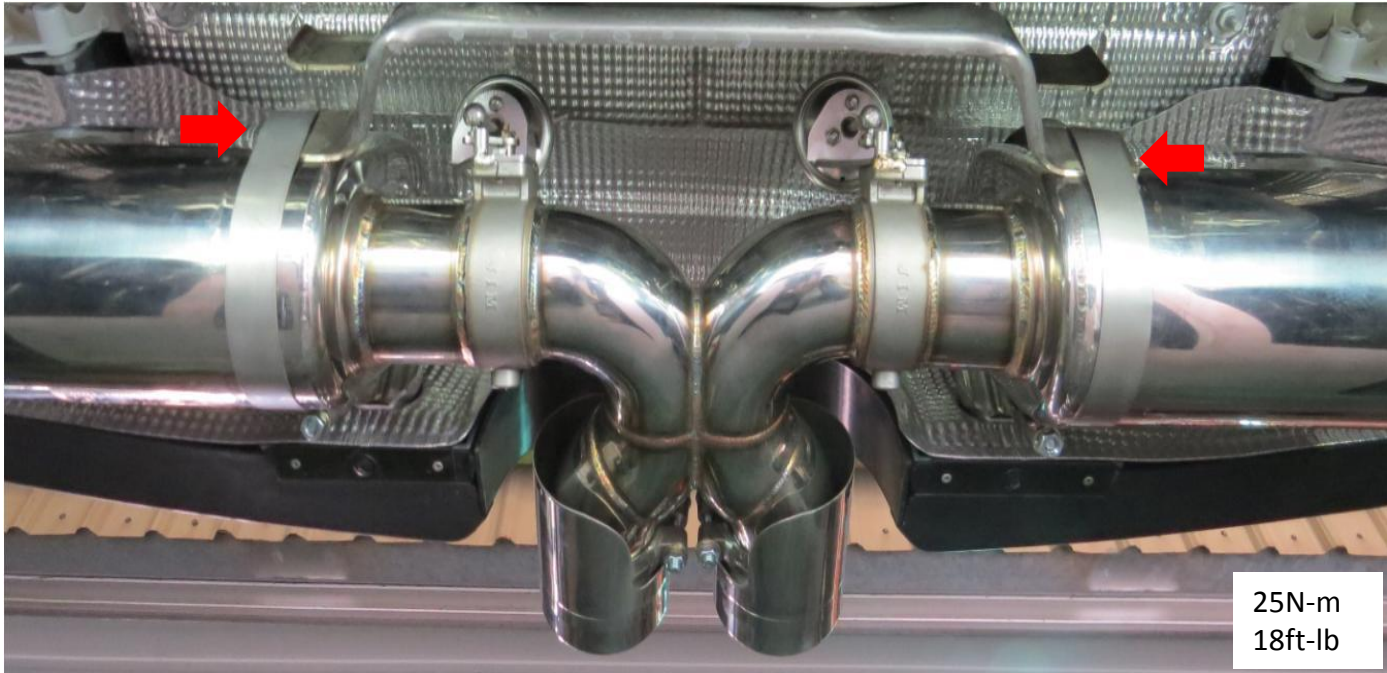


Photo 3-3

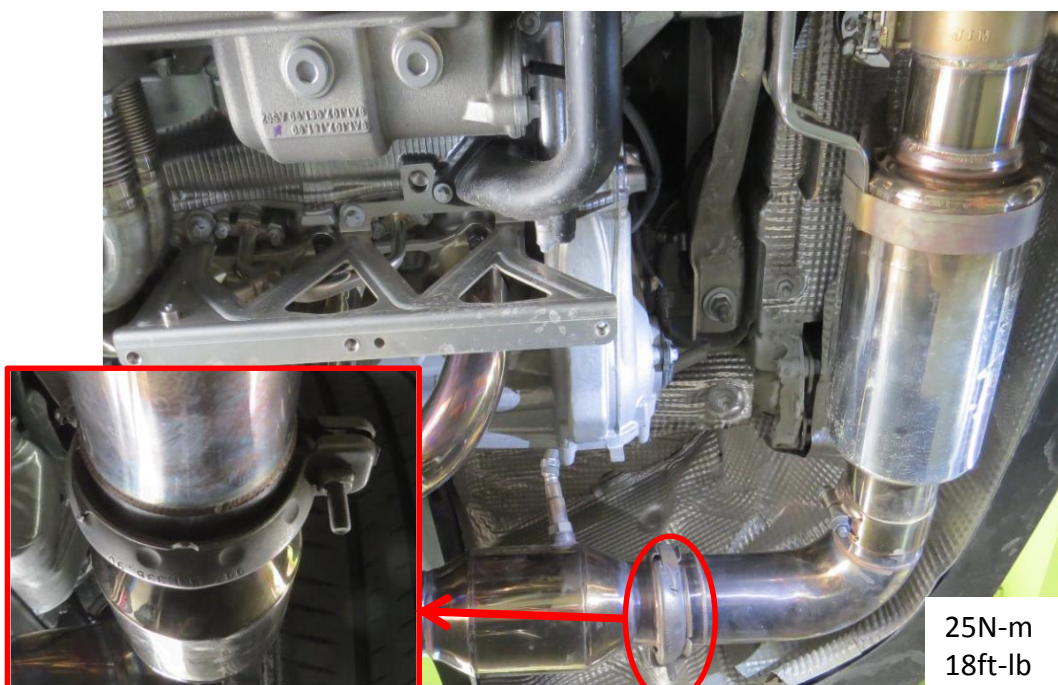


Photo 3-4

4. Connect muffler valve to vacuum source (photo 4-1), and to stock three-way branch of vacuum source. (arrows in photo 4-2)

To avoid valve interfered by air leakage, tighten all connection of vacuum source with band.

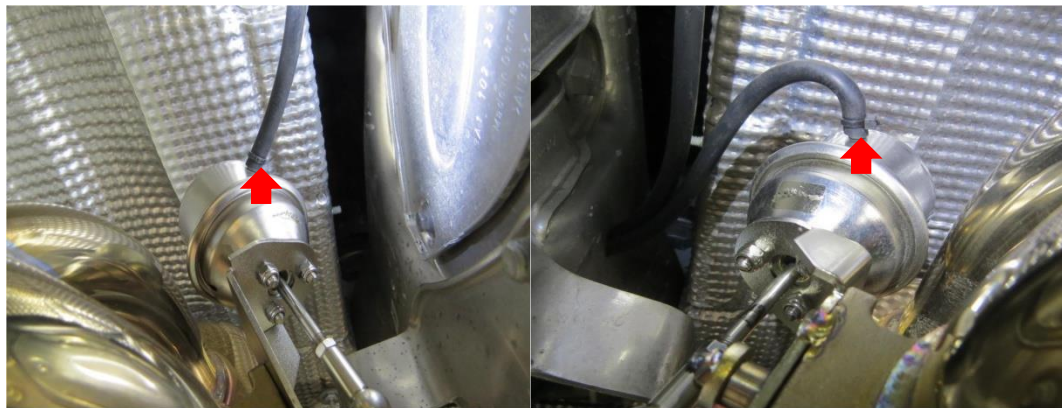


Photo 4-1

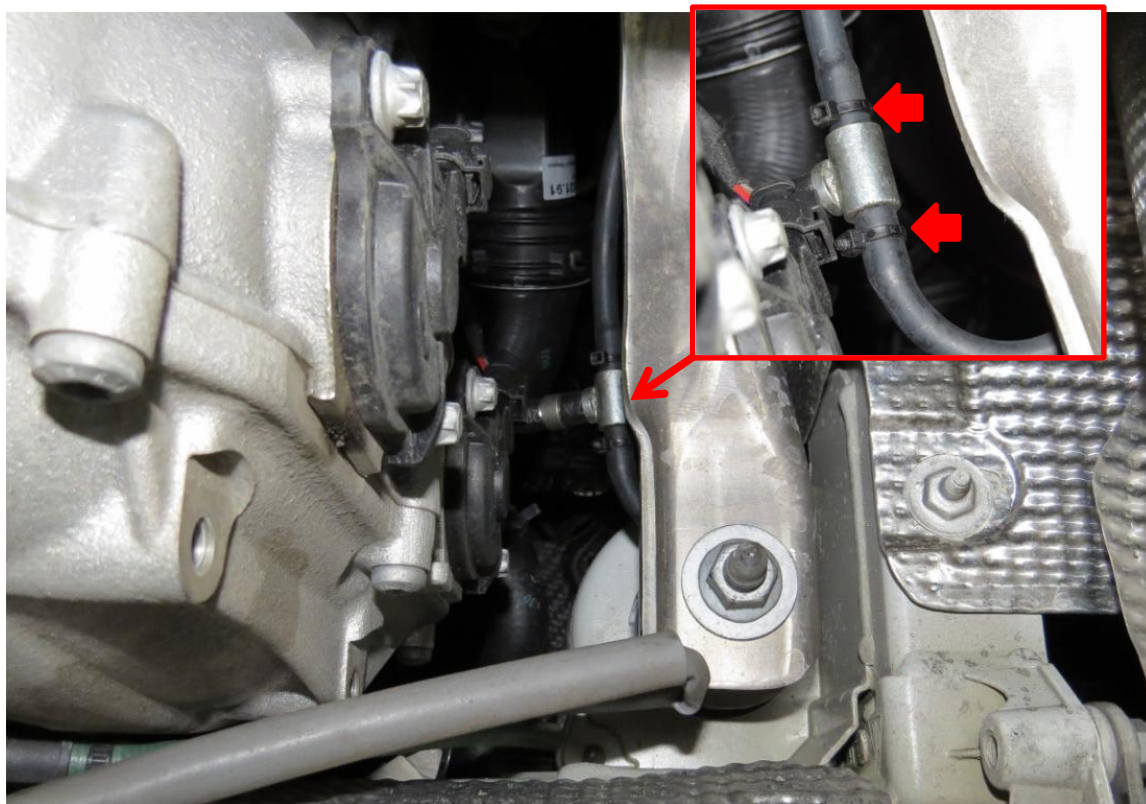


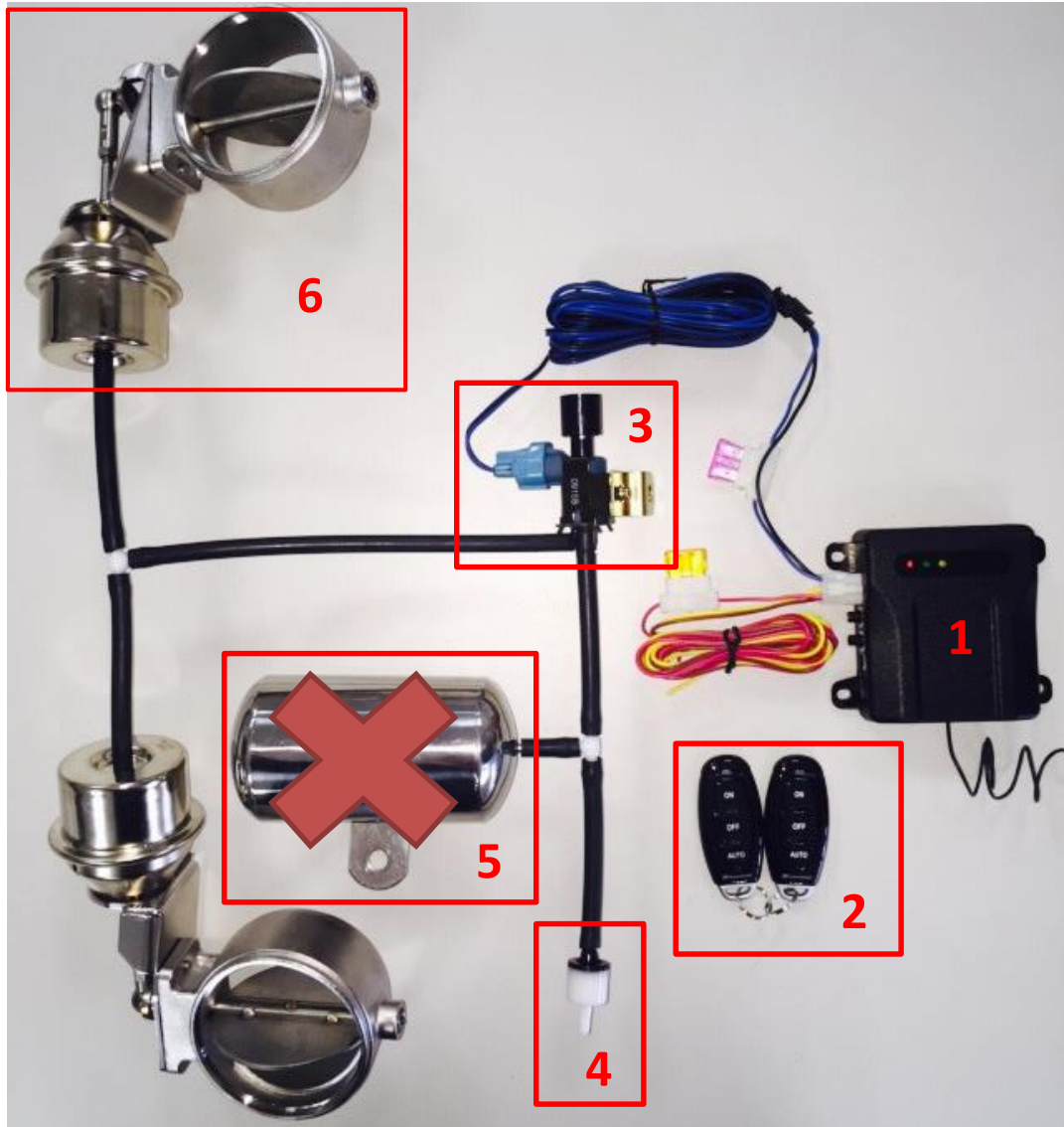
Photo 4-2

5. Mount engine bottom protect shield.

~ Above iPE exhaust installation completed ~

iPE Valve control unit installation

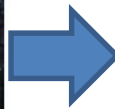
Below are all control components and the corresponding connections.



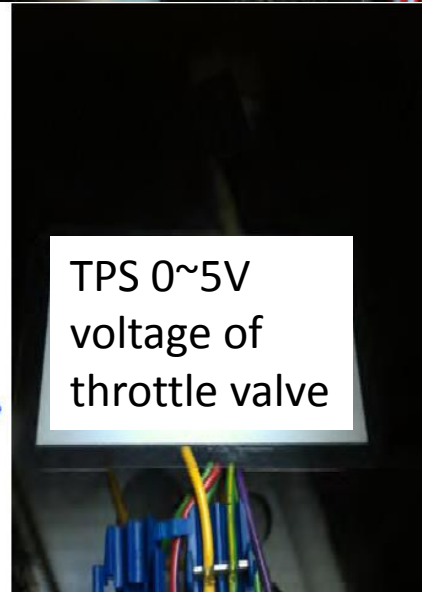
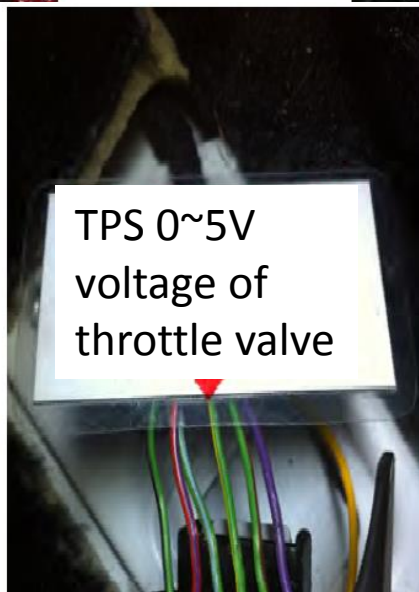
- 1: Valvetronic control box
- 2: Remote controller
- 3: Valvetronic solenoid valve

- 4: One-way valve
- 5: Vacuum tank is no needed for this model
- 6: Vacuum valve

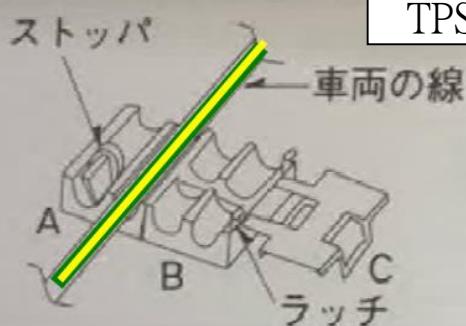
Find the fuse box and connect the power wire (red)



suspend the body bond strap GND \emptyset ,
and connect the TPS 0~5V voltage of throttle valve.

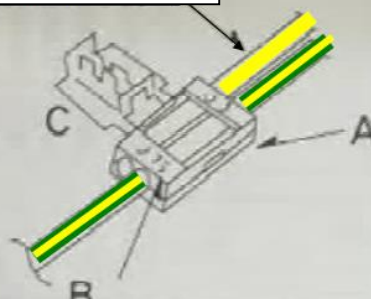


(1)

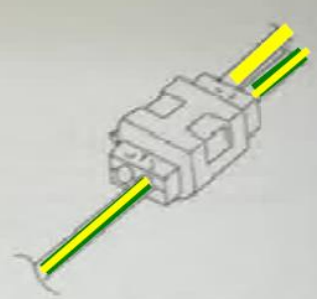


(2)

TPS wire 0~5V(Yellow)



(3)



Connect with electric valve and install one-way valve

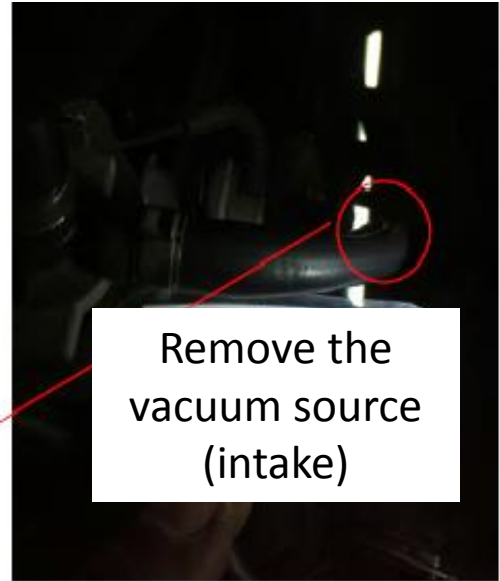


Install electronic valve on the right side of intake manifold



右側





Install the one-way valve.

vacuum source
(output)