



Innotech
Performance
Exhaust
Product Installation Manual

Applicable model:
Ford MUSTANG

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.

Tools for the installation



Hex Wrench
6mm



Star groove wrench
E10 、 E12 、 E14

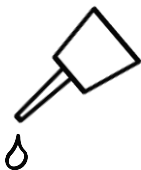


**Open end hexagonal
wrench**
12mm 、 13mm
15mm 、 22mm



Torque wrench

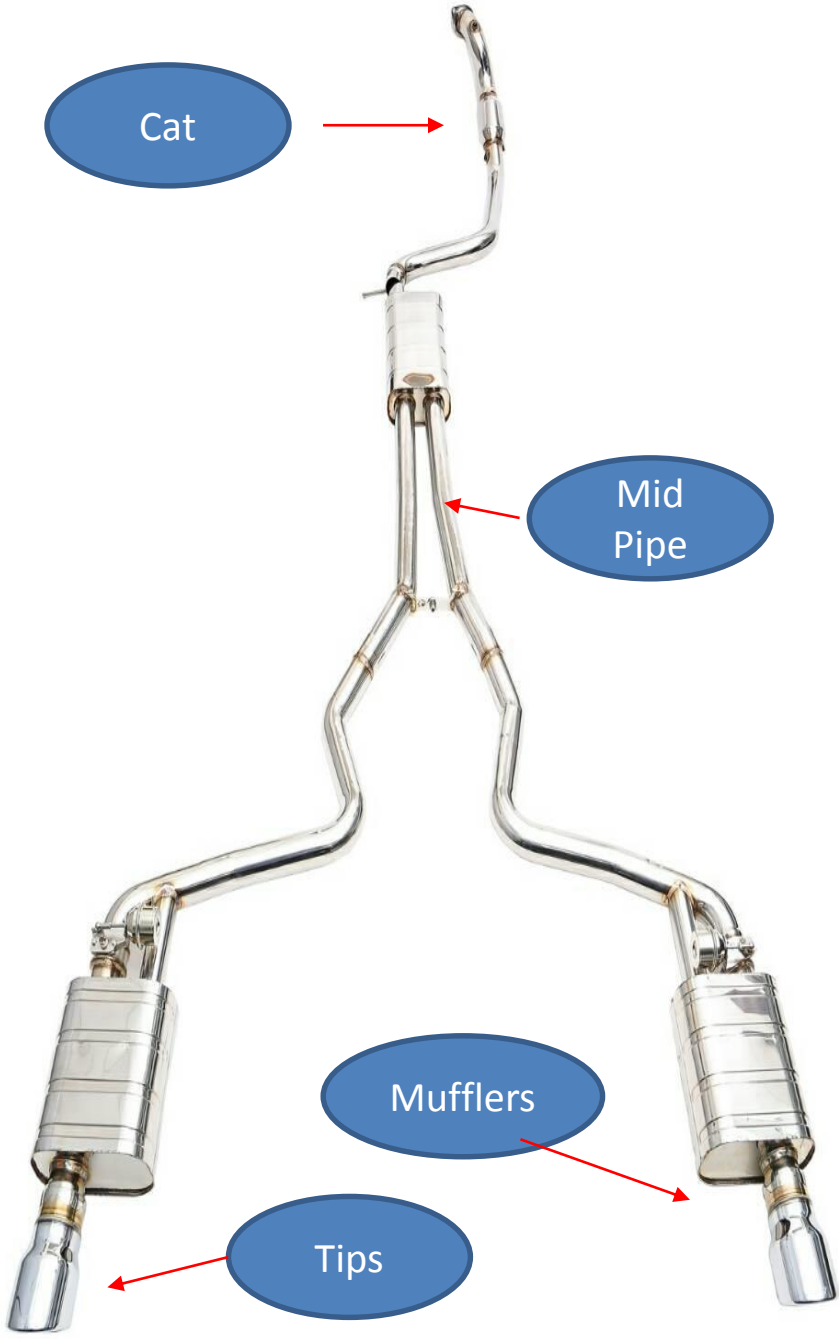
Torque Wrench



Anti-rusting oil

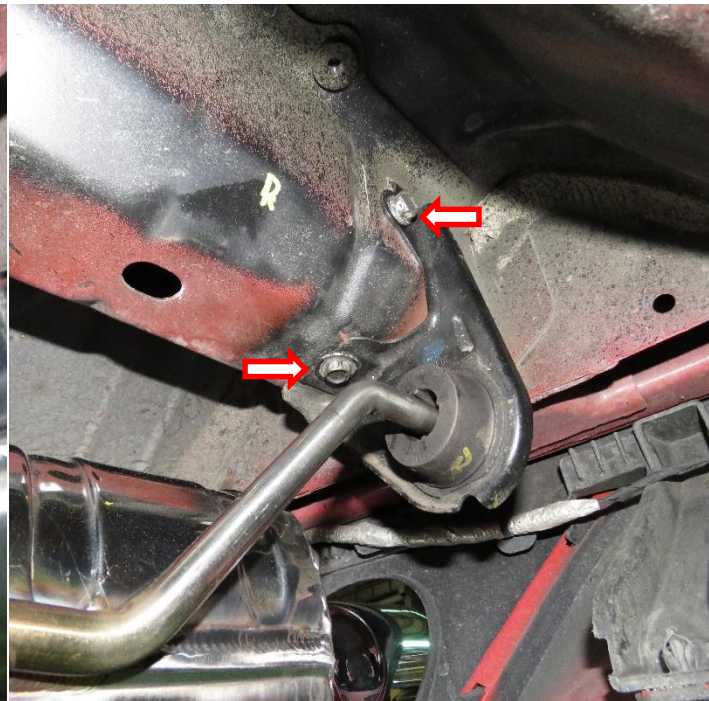
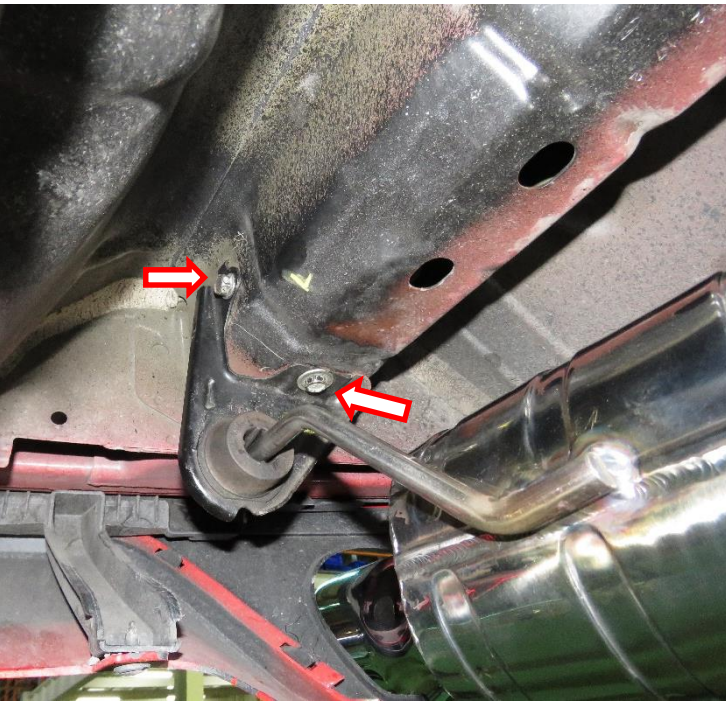


iPE Mustang Assembly of product appearance



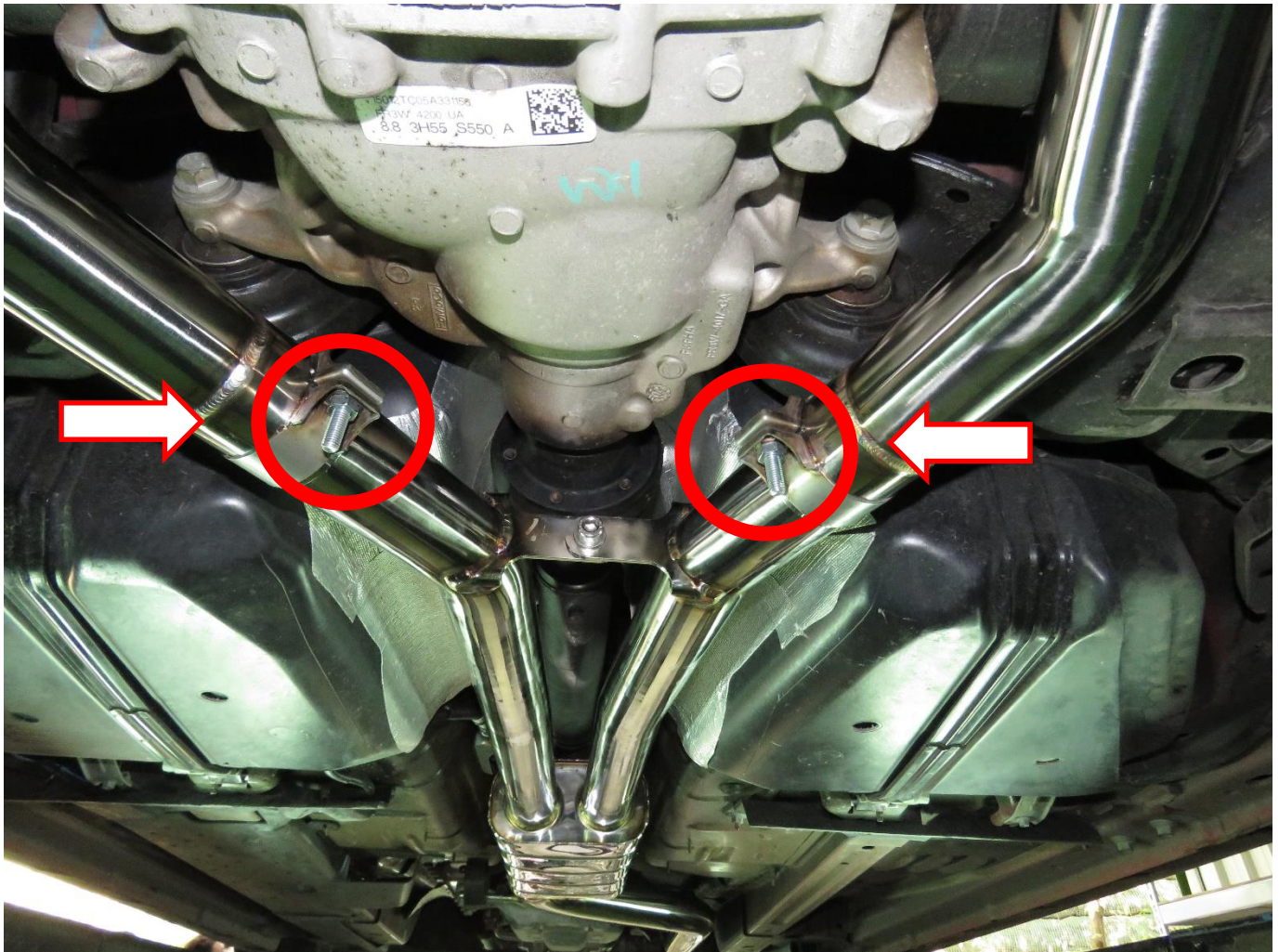
Step 1: Removal of the original exhaust pipe

1. use 13mm outer hexagonal wrench to remove both hanger seats beside the muffler

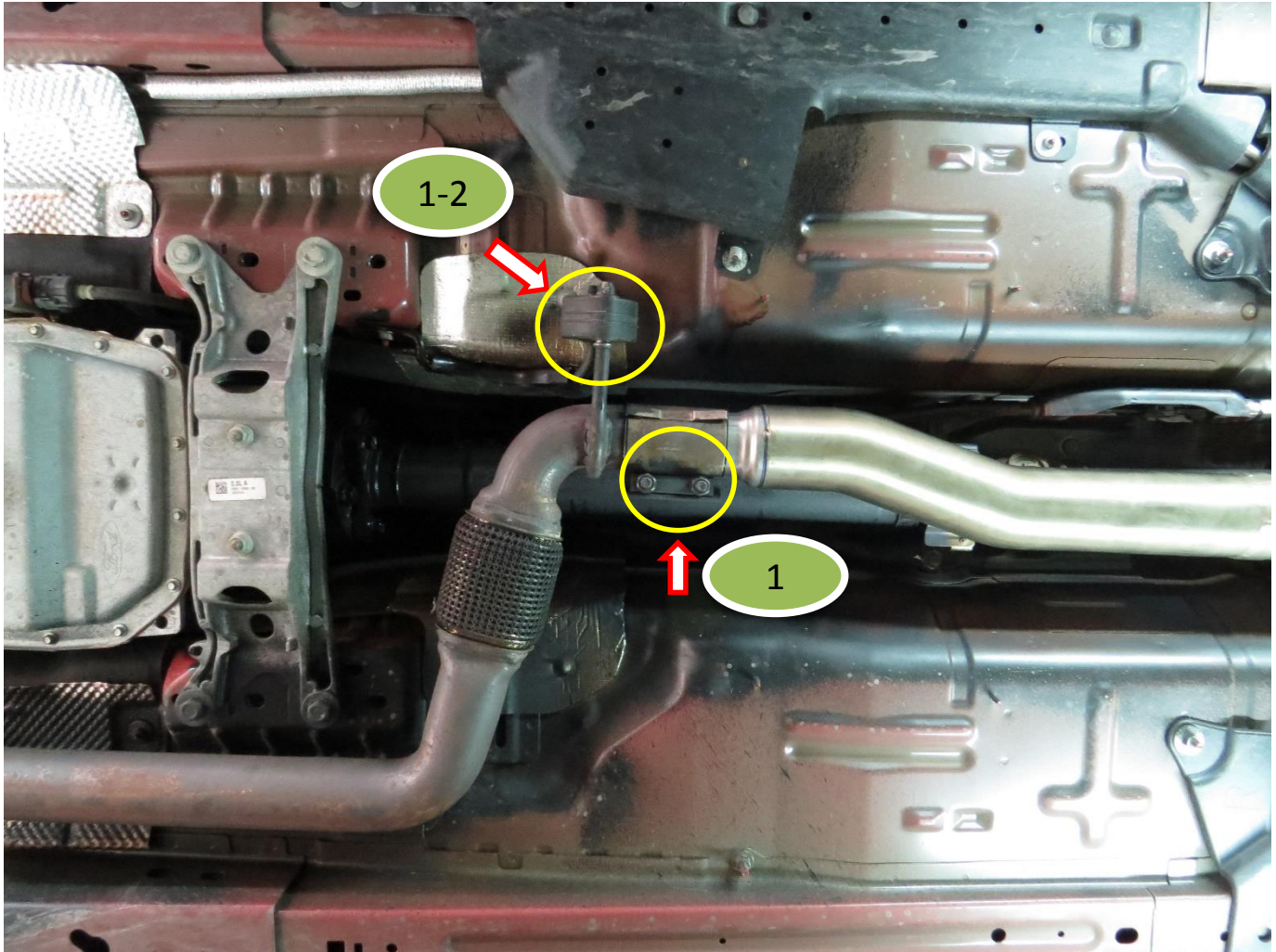


1. Demounting mid-pipe clamp by outer hexagonal wrench (red circle)

2. Demounting muffler lug (indicated by red arrow.)



1. Use hexagon socket to loose the band to remove mid pipe (show as circle # 1)
2. Demounting hanger seats beside the catalytic converter



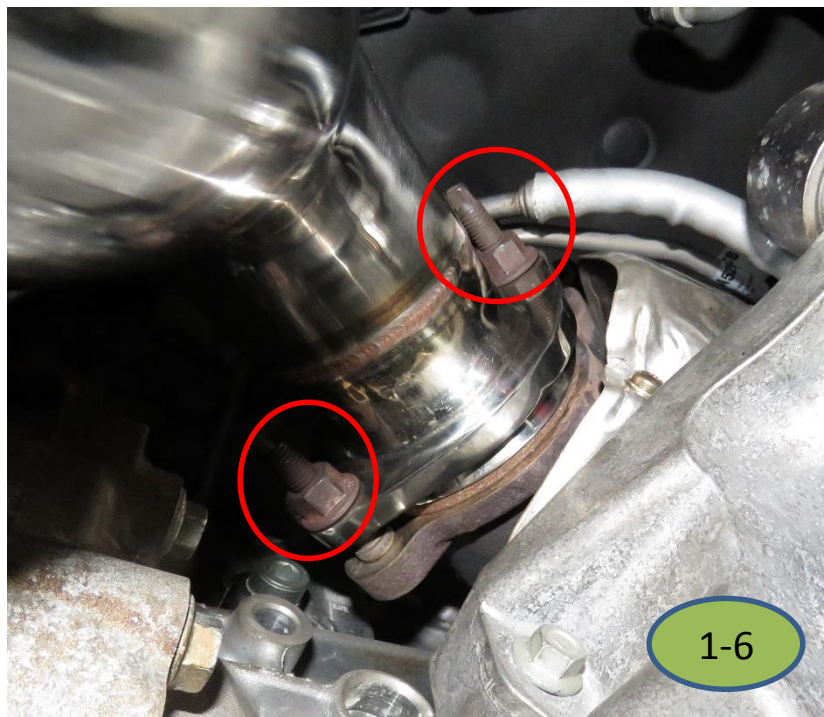
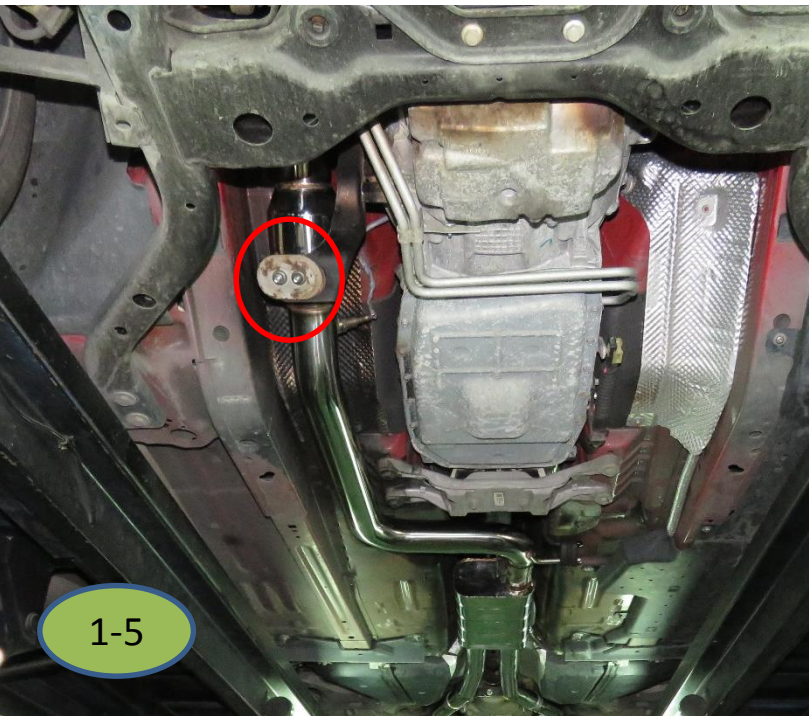
3. Demount rear O2 sensors by outer hexagonal wrench



Removing catalytic converter section

3. Remove hexagon socket to remove the lifting lug screws from the catalyst segment.

4. Demount the clamp screw from the catalyst segment to remove the catalytic converter



Exhaust installation

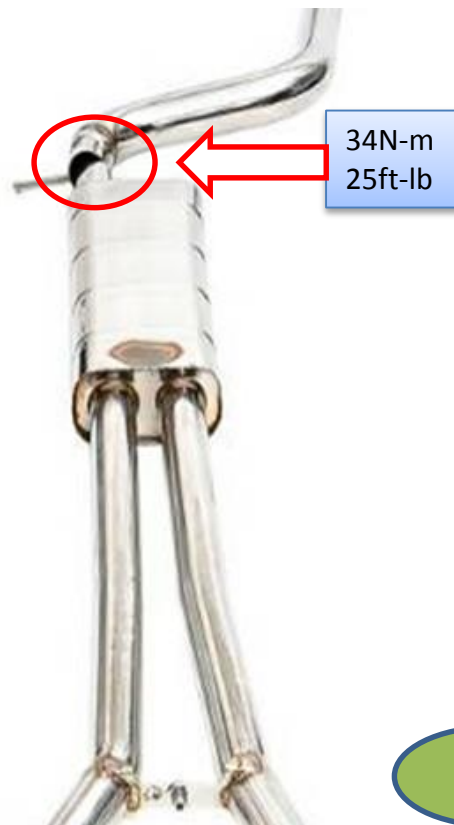
Procedures for header

1. Mount the header and fasten clamp tightly with a hexagonal socket wrench. (shown as pic 1-9)
 2. Fasten rear O2 sensor by 22mm wrench with a outer hexagonal wrench. (shown in p.11)
- Please remember to reinstall the oxygen sensor before installing the IPE head segment.



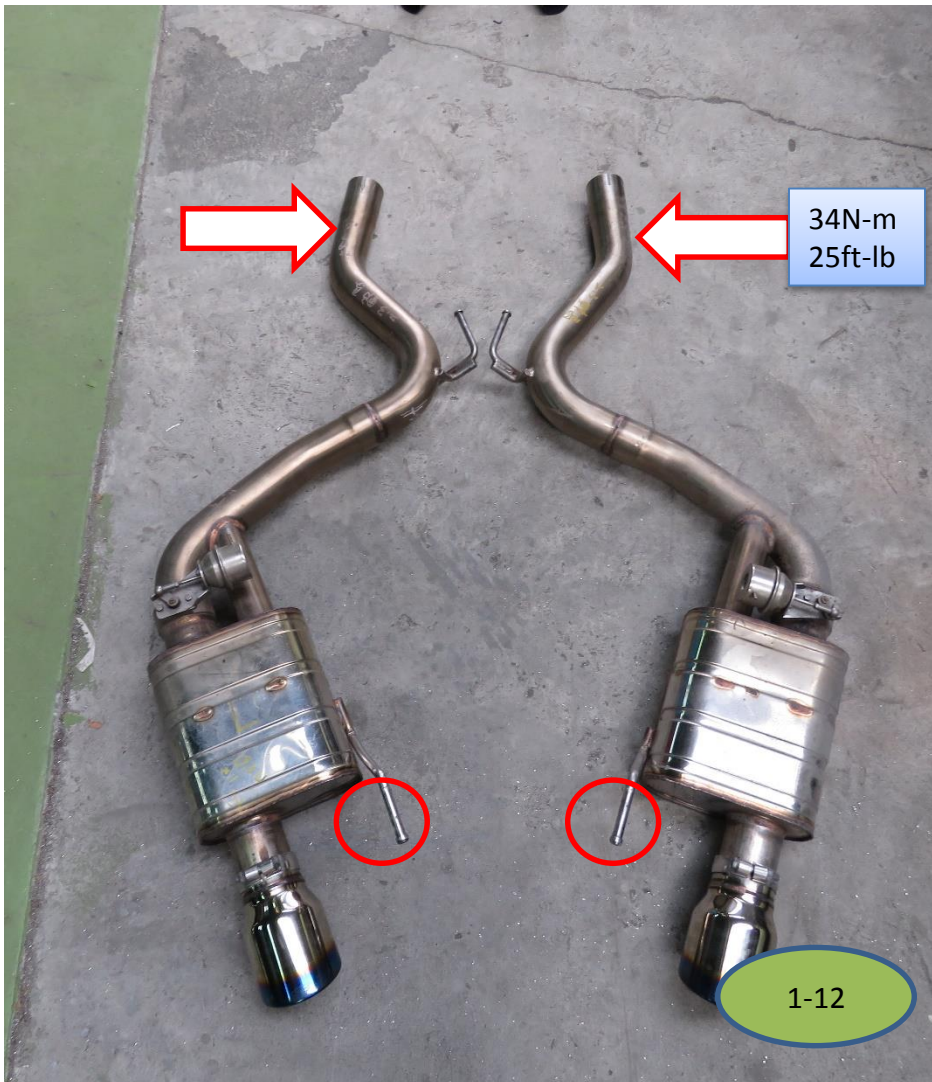
1. Retain the mid pipe and the catalyst segment with the clamp. Fasten the screw tightly.
2. Mount hanger seats beside the catalytic converter and fasten clamp (see P.9)

Once the full segment is properly installed, fasten the head segment, mid pipe with a torque wrench sequentially.



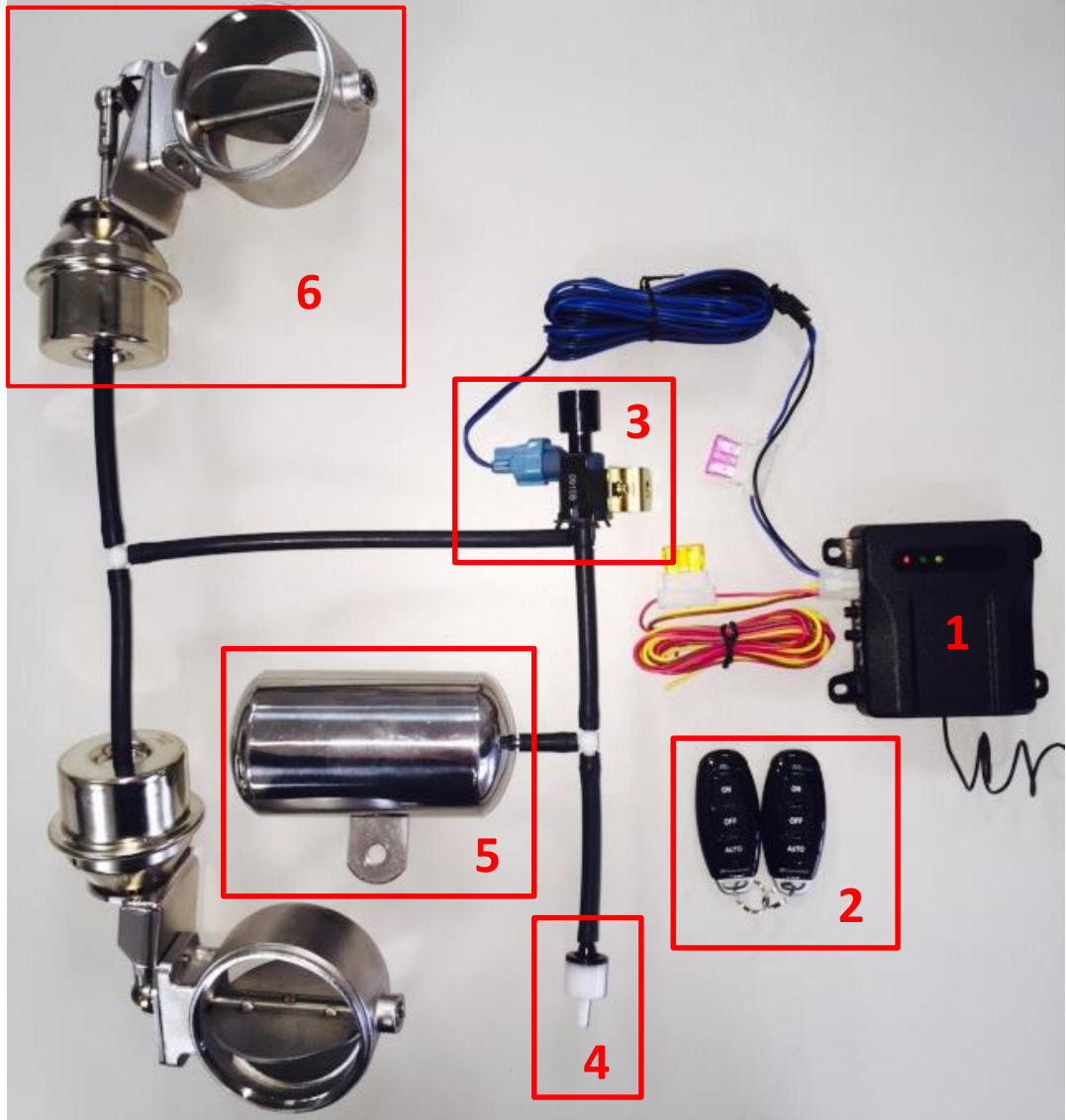
Tips installation Process

1. Install lifting lug holder (shown as red circle)
2. Insert the tubular ring on the joint part of tips and mid pipe and fasten with hexagonal socket wrench (indicated by the arrows)



iPE Valve control unit installation

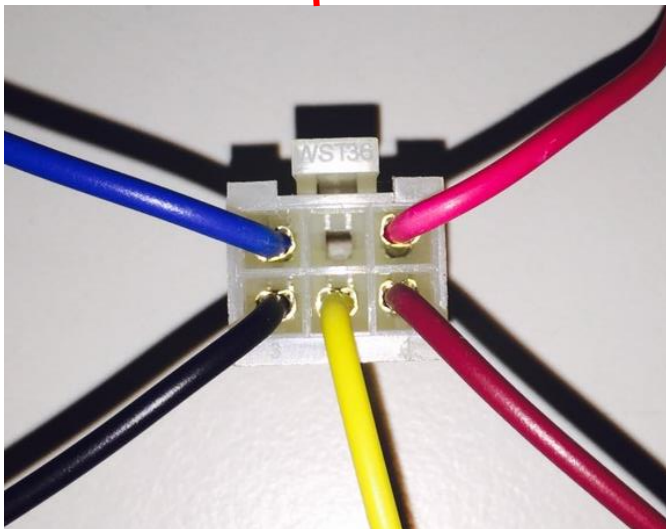
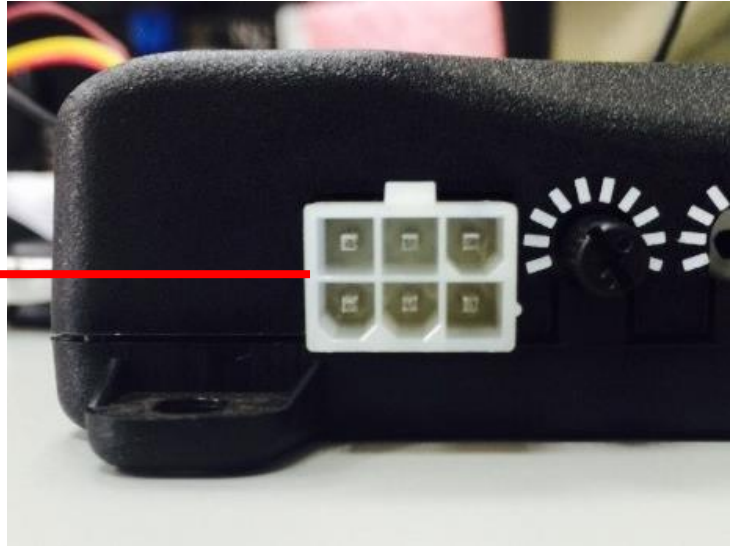
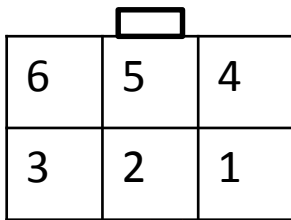
Below are all control components and the corresponding connections.



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

4: One-way valve
5: Vacuum tank
6: Vacuum valve

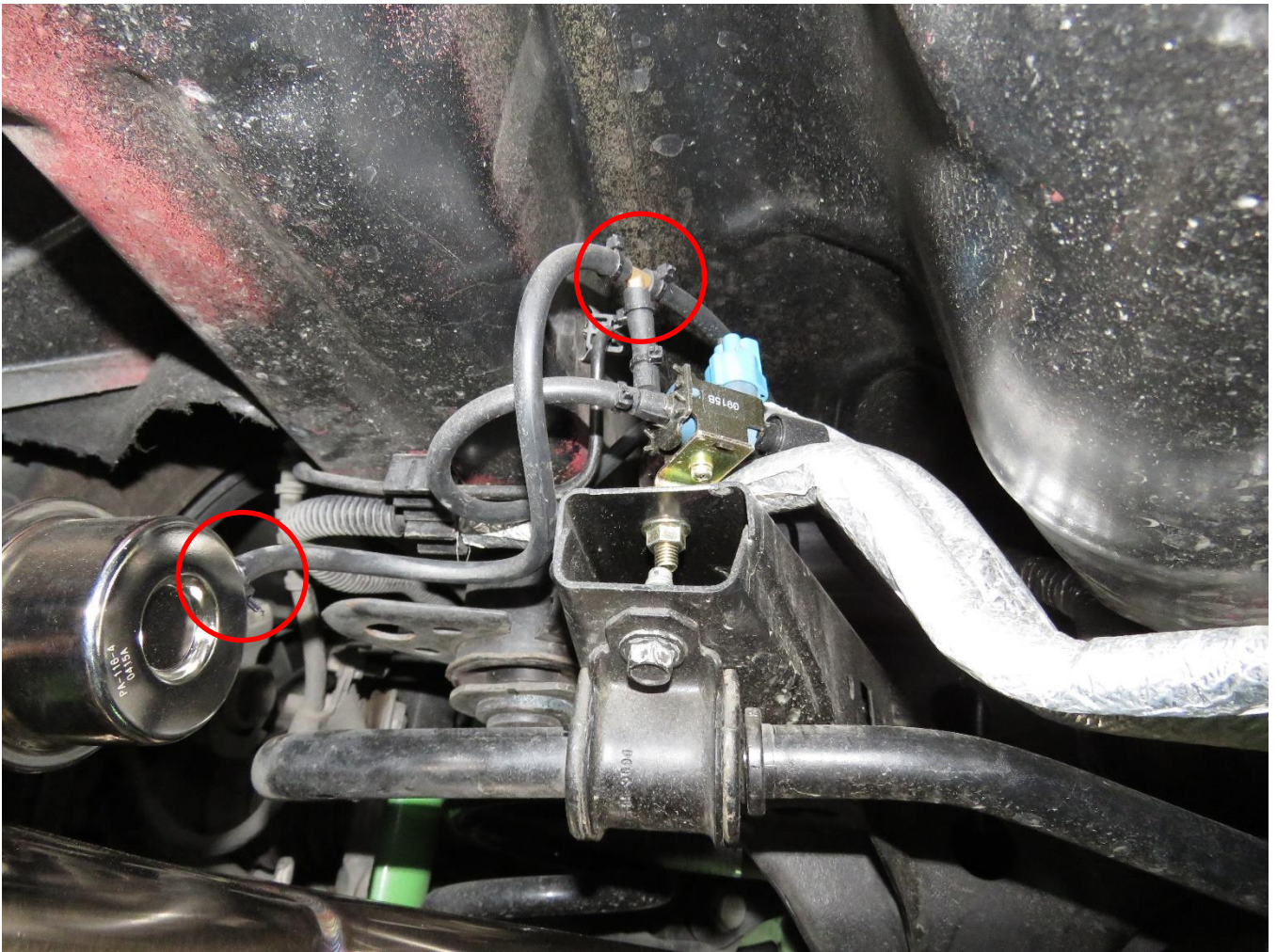
Wiring and Configuration



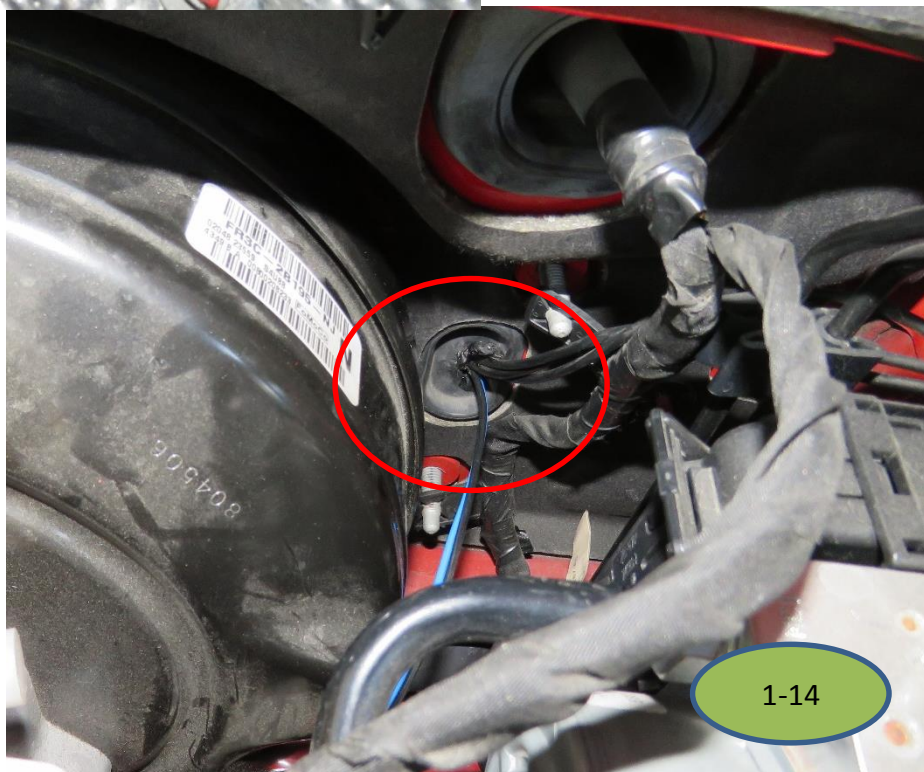
- 1:Brown wire / Ground wire
- 2:Yellow wire / Gas paddle pressing signal wire
- 3:Black Wire / Valvetronic solenoid valve (-)
- 4:Red wire / B+ wire
- 5:
- 6:Blue Wire/ electromagnetic valve wire

Solenoid valve Installation Process

1. Install Solenoid valve up to the sway bar which position left behind
2. Install the wiring through 3 way connector to both side of valves (shown as in red circles)



1. Install the vacuum tank beside gearbox (show as in pic 1-13)
Please spare appropriate space for avoiding bumping
2. Pulling solenoid valve control line through wheel drainage holes inside the car (show as in 1-14)



Control Box Wires Installation Process

1. Opening the top of the engine compartment fuse box and connecting the red wire(+) to 15A fuse
2. Connect brown wire(-) to negative electrode (Pic 3-3 red narrow)



3. demount the pedal then search for TPS throttle signal wire.
Use insulator to connect blue and white wire together



Installation and configuration is complete