



iPE Exhaust

Automotive exhaust system engineering

Porsche Cayenne

E3

Product installation instruction

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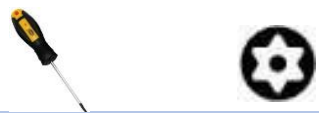


1.Important information

iPE developed exhaust systems based on the OEM exhaust to avoid issue with installation. Modern car keys and the vehicle itself have an inductive power transmission function, we suggest to keep the car key at least 5 meters away from the vehicle for safety purpose. Please wear insulated gloves to replace the exhaust pipe when hot, or replace it after cool down to avoid burns.

When setting the valve to open automatically, please do not let the valve open prematurely to avoid resonance; it is recommended to set the timing of valve opening to 60% of the throttle. For detailed setting options, please refer to the control box setting page.

The iPE exhaust system is an evolution designed based on OEM spec. If the vehicle has ECU tuning, there may be possible resonance from the exhaust system. If you have any questions about this installation instruction, please contact your local iPE dealer or email us at info@ipe-f1.com

2.Tools required for the installation

Tool name	Tool appearance
Rust inhibitor / lubricant	
Hexagon socket	
Outer hex wrench	
Torque wrench	
Star screwdriver	
flathead screwdriver	
Star socket	

3. Porsche Cayenne E3 product assembly



4.Steps to remove the original exhaust and related key point

※lift up the vehicle to the working position.

1. Remove the front pipe lower guard.(Fig.1)
2. Remove the lower bracket and then remove the middle bushes. (Fig.2)

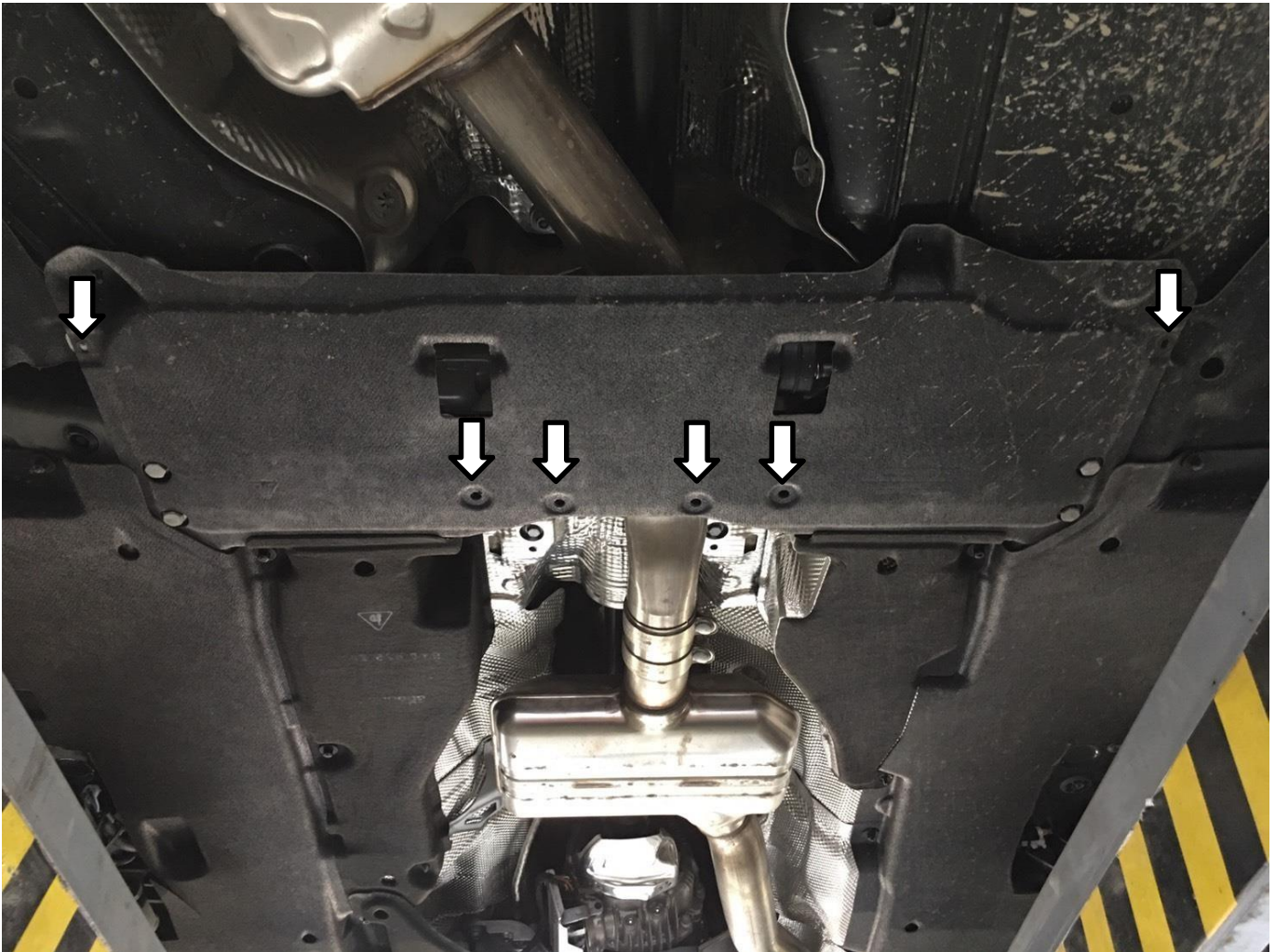


Fig. 1

Warning: Please put in park before lifting up, clear the surrounding area and pay attention to the height to ensure the safety of people and vehicles!

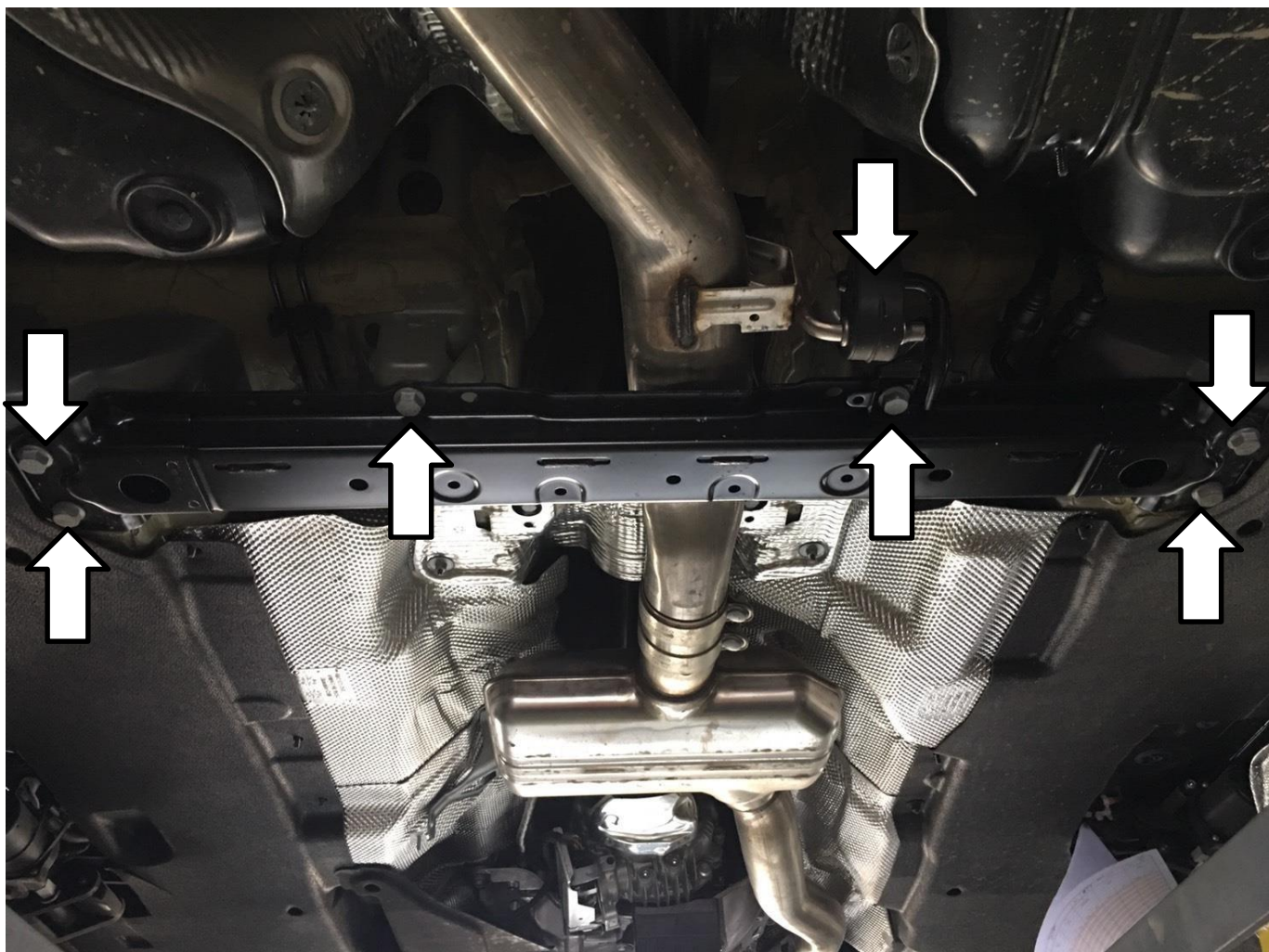


Fig. 2

Warning: After the screws were removed, place neatly to avoid confusion during reinstall .

3. Loosened the front pipe bushes and clamps (Fig.3)
4. Remove the lower guard under tips.(Fig.4)
5. First remove the back muffler export connect pipe and remove the bushes screw then remove cat-back. (Fig.5)

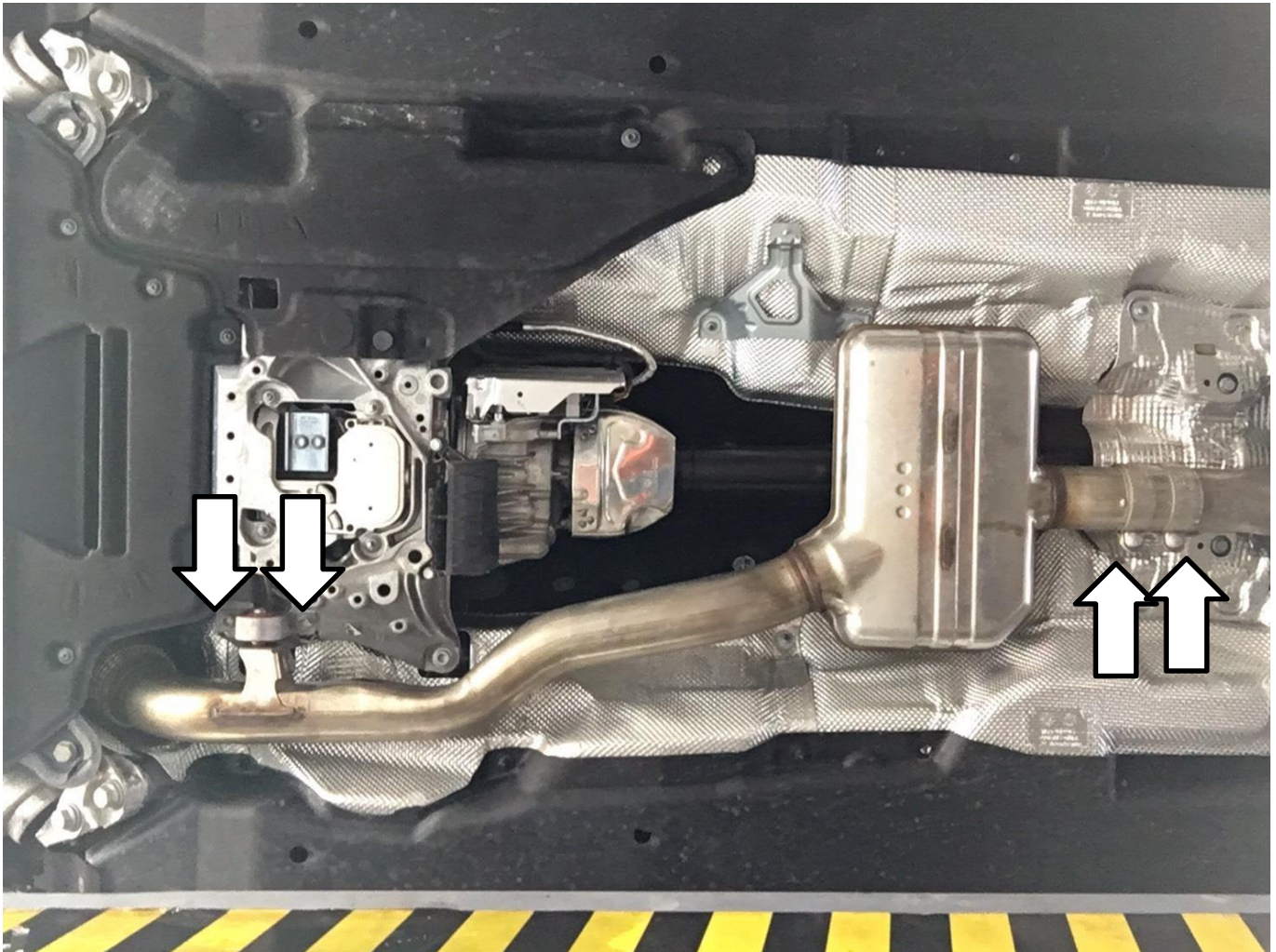


Fig. 3

Warning: After the screws were removed, place neatly to avoid confusion during reinstall.

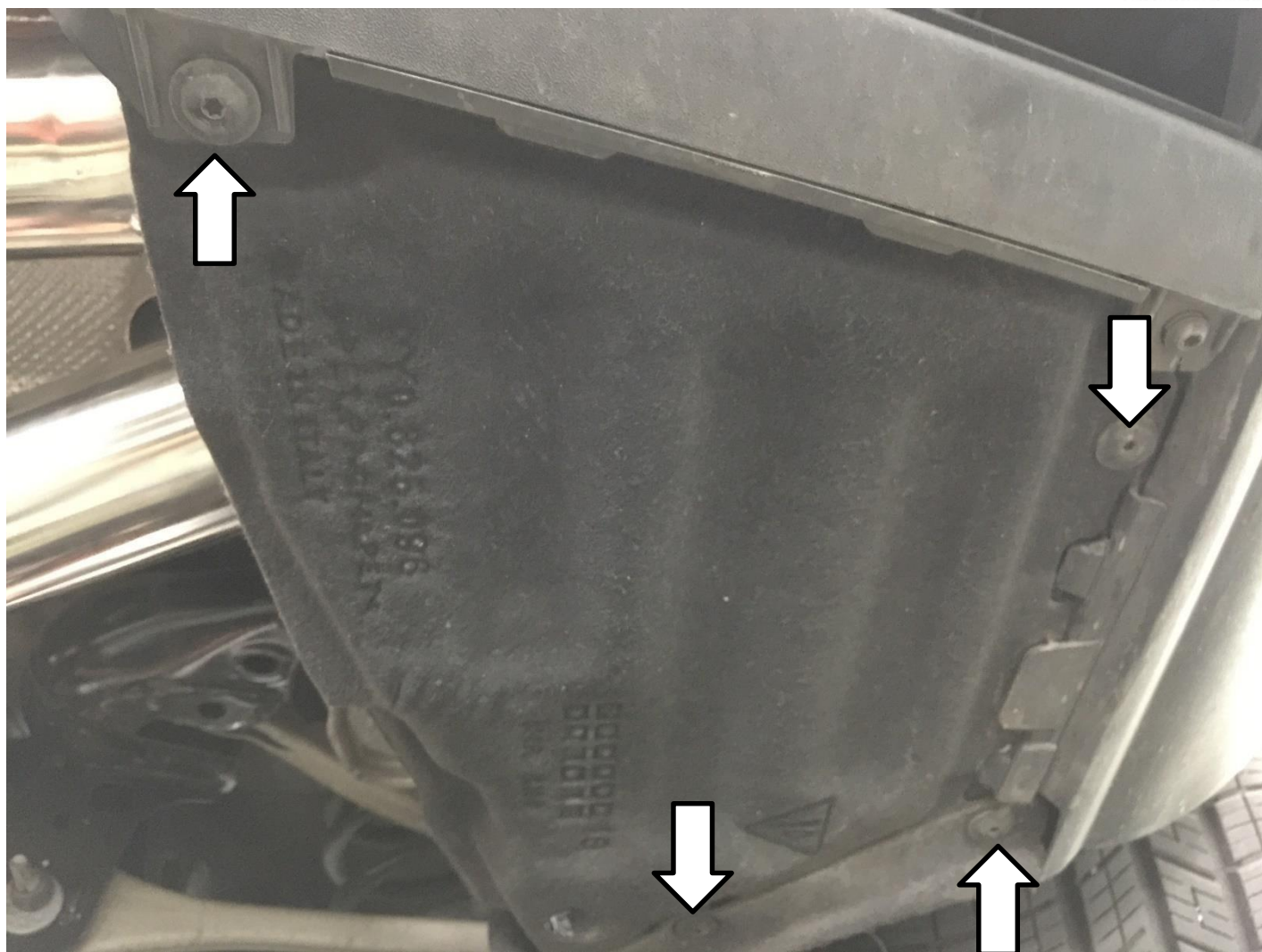


Fig. 4

Warning: After the screws were removed, place neatly to avoid confusion during reinstall .

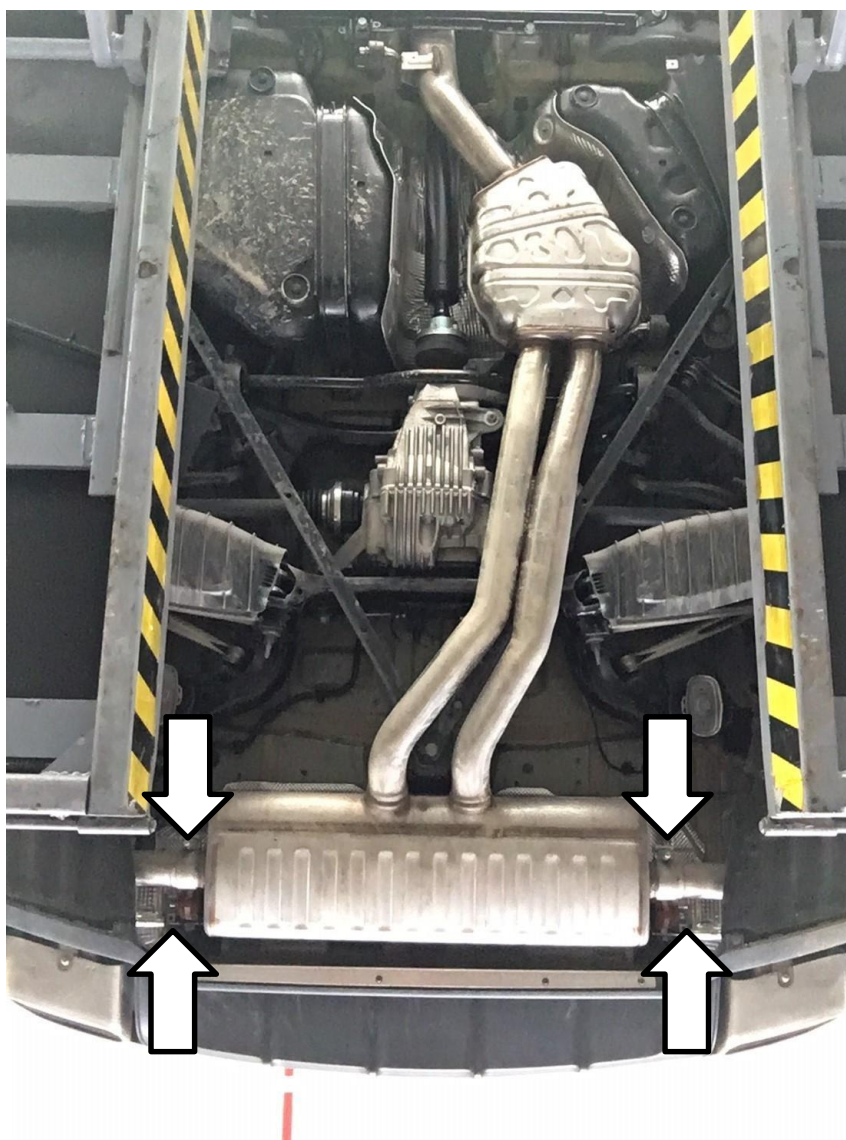


Fig. 5

Warning: After the screws were removed, place neatly to avoid confusion during reinstall .

6. Pull the left and right buckles, remove the engine cover, and remove the air filter assembly. (Fig.6)

5. Remove the retainer screw and bushes then remove the front pipe. (Fig.7.8)



Fig. 6

Warning: The cover and air filter assembly are comprised of plastic. Please be careful when removing them.



Fig. 7

Warning: After the screws were removed, place neatly to avoid confusion during reinstall .

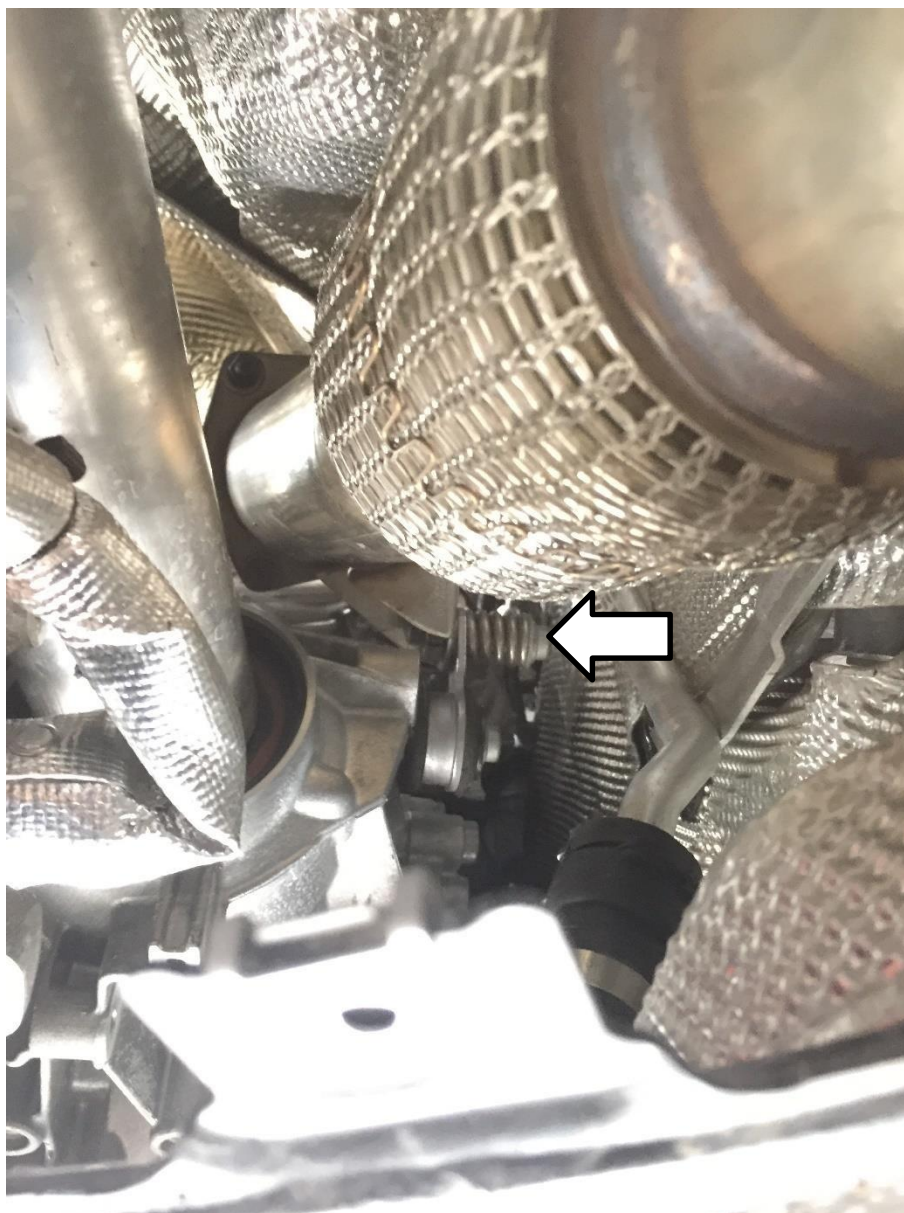


Fig. 8

Warning: After the screws were removed, place neatly to avoid confusion during reinstall .

7. In order to remove the cat pipe, remove the cat pipe clamps and rear oxygen sensor first. (Fig.9)

Warning: Use the appropriate tool to remove the exhaust valve vacuum tube. Improper removal will damage the vacuum tube!

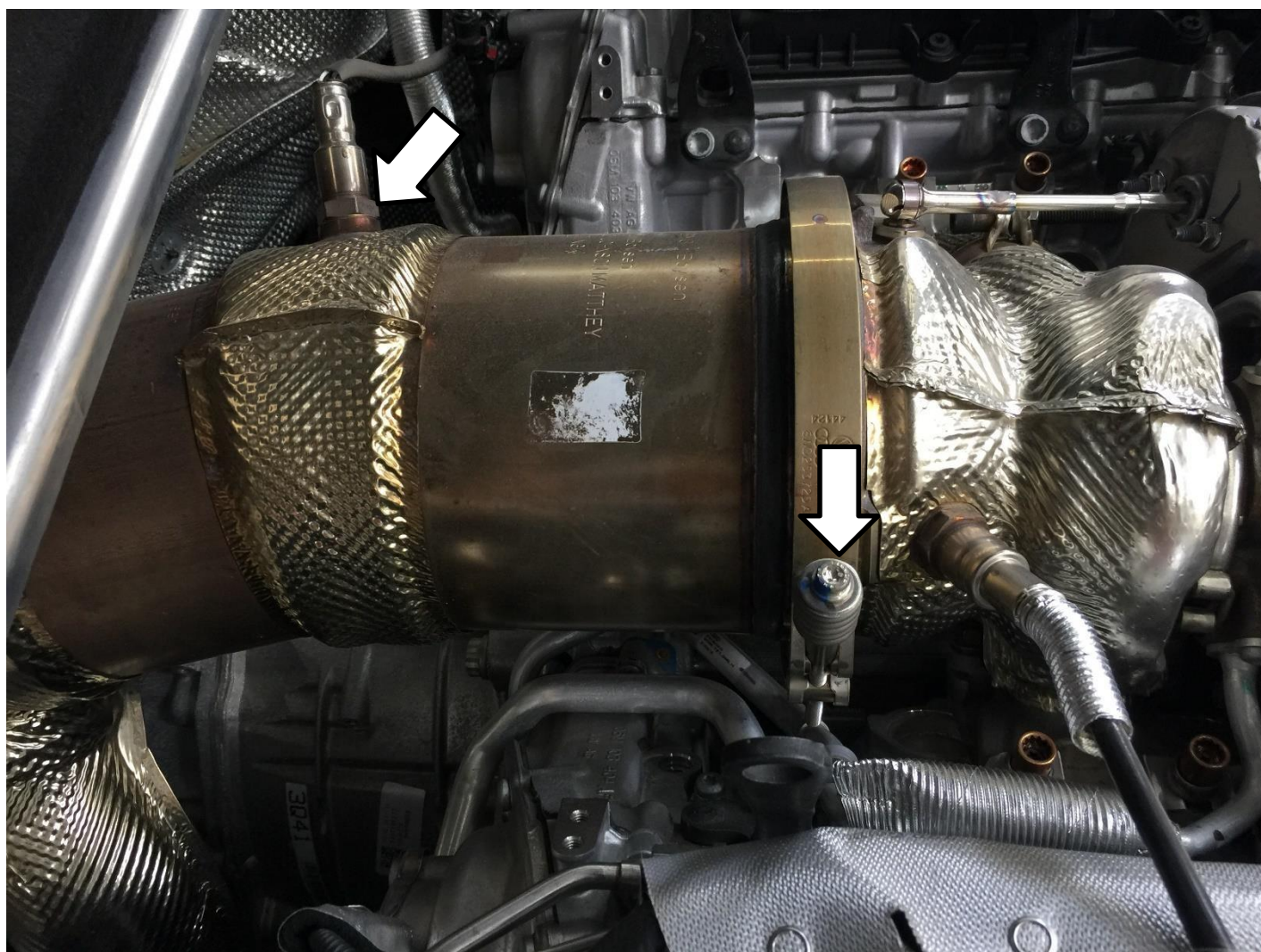


Fig. 9

5. Steps and focused points for installing the iPE exhaust

1. Install the iPE cat pipe and front pipe to the positioning. (Fig.10.11)

Warning: lock these screws with proper torque setting.

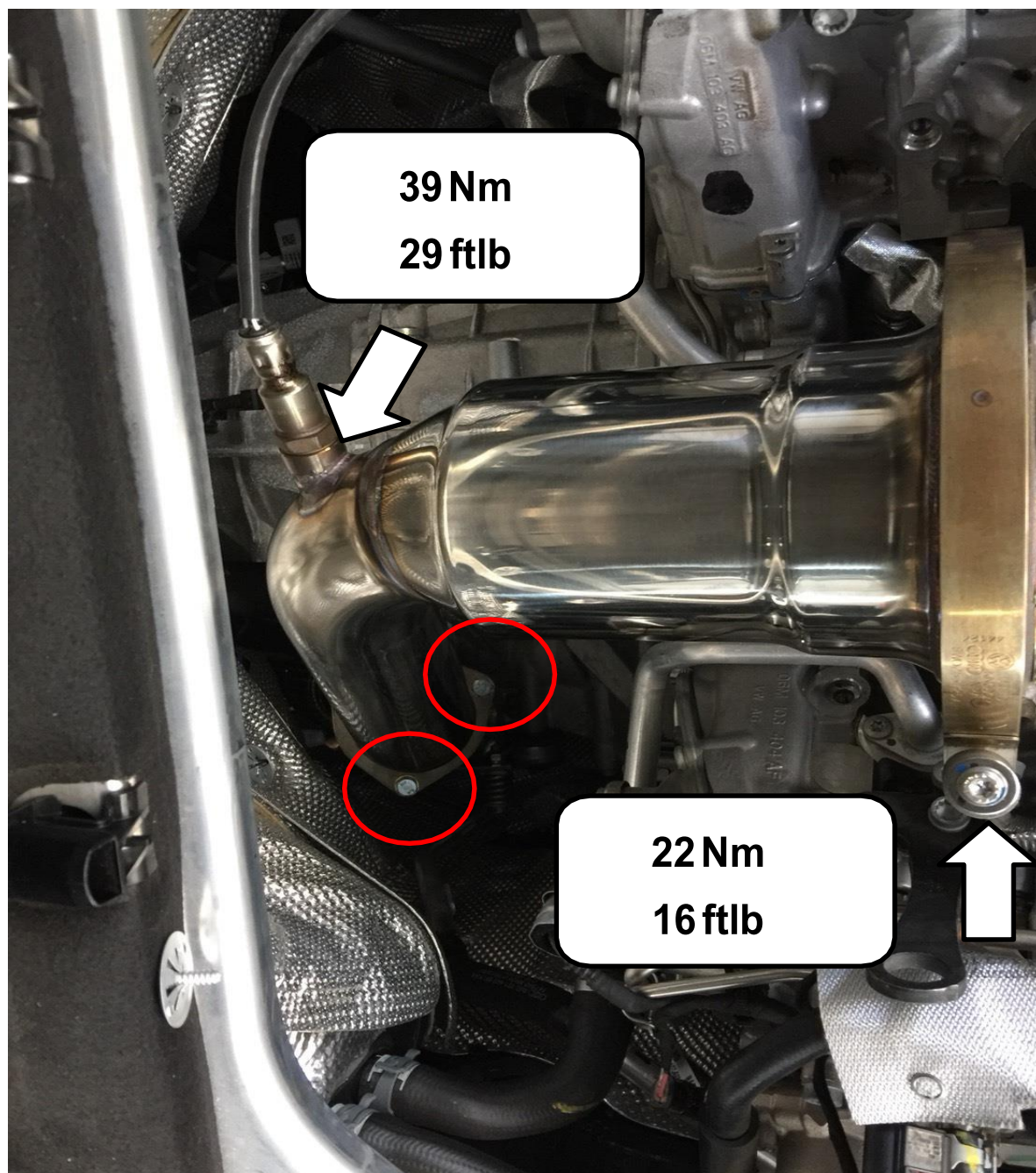


Fig. 10

Warning: Use the appropriate tool to remove the exhaust valve vacuum tube. Improper removal will damage the vacuum tube!

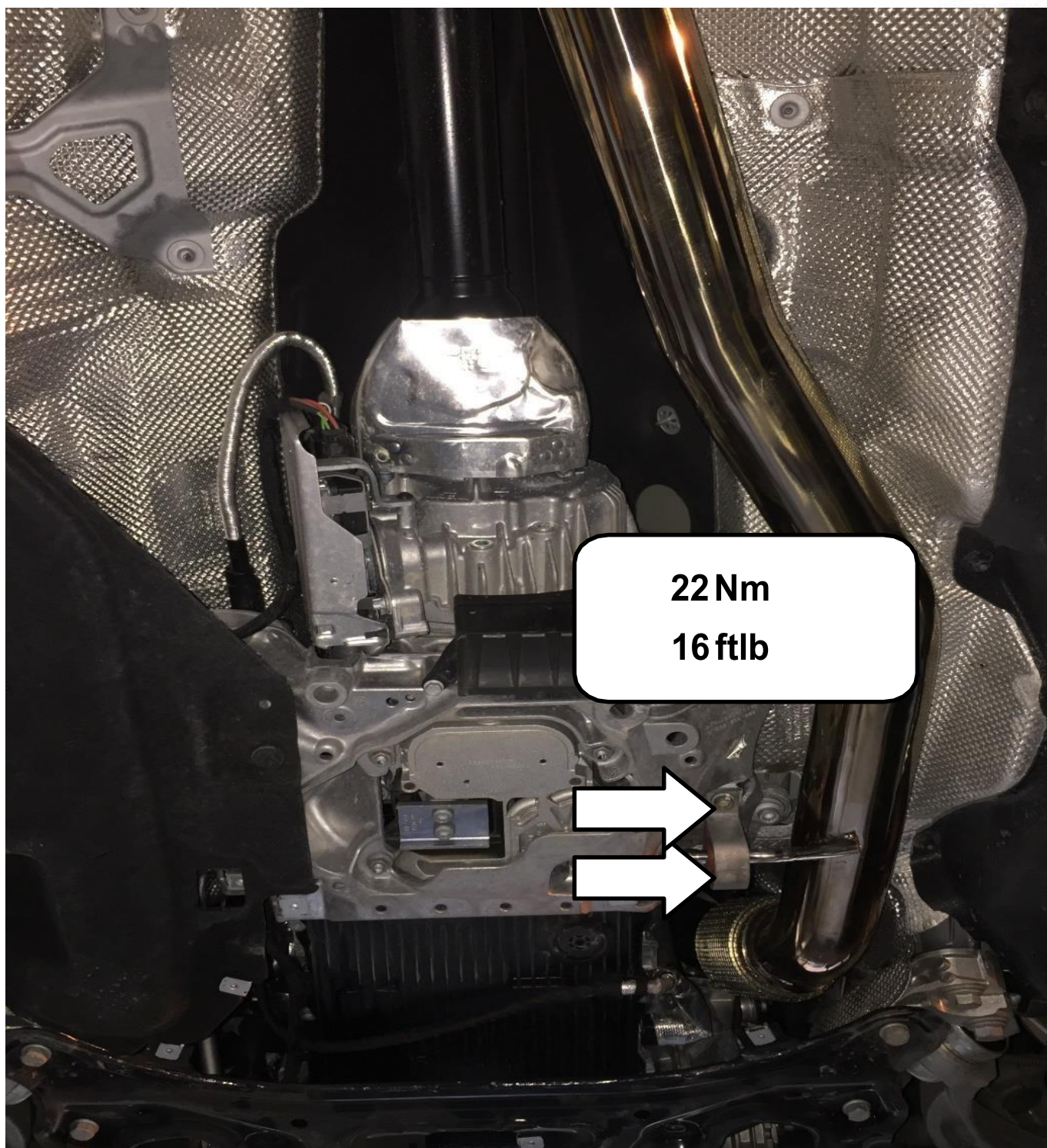


Fig. 11

2. Install the mid pipe to the positioning and the distance from the lower bracket at least 15mm.

Warning: lock these screws with proper torque setting.

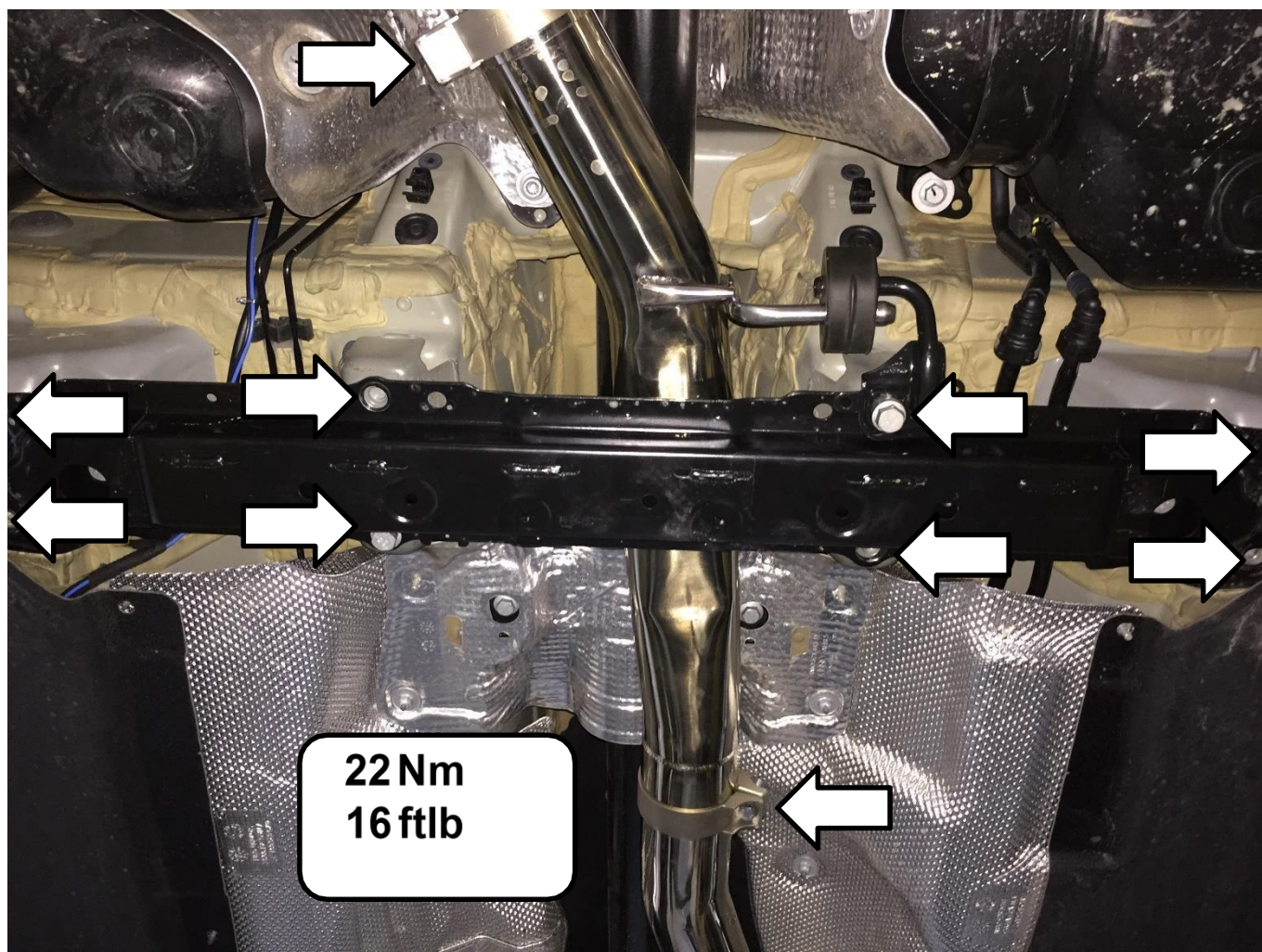


Fig. 12

3. Install the muffler and tips to the proper position. (Fig.13)

Warning: lock these screws with proper torque setting.

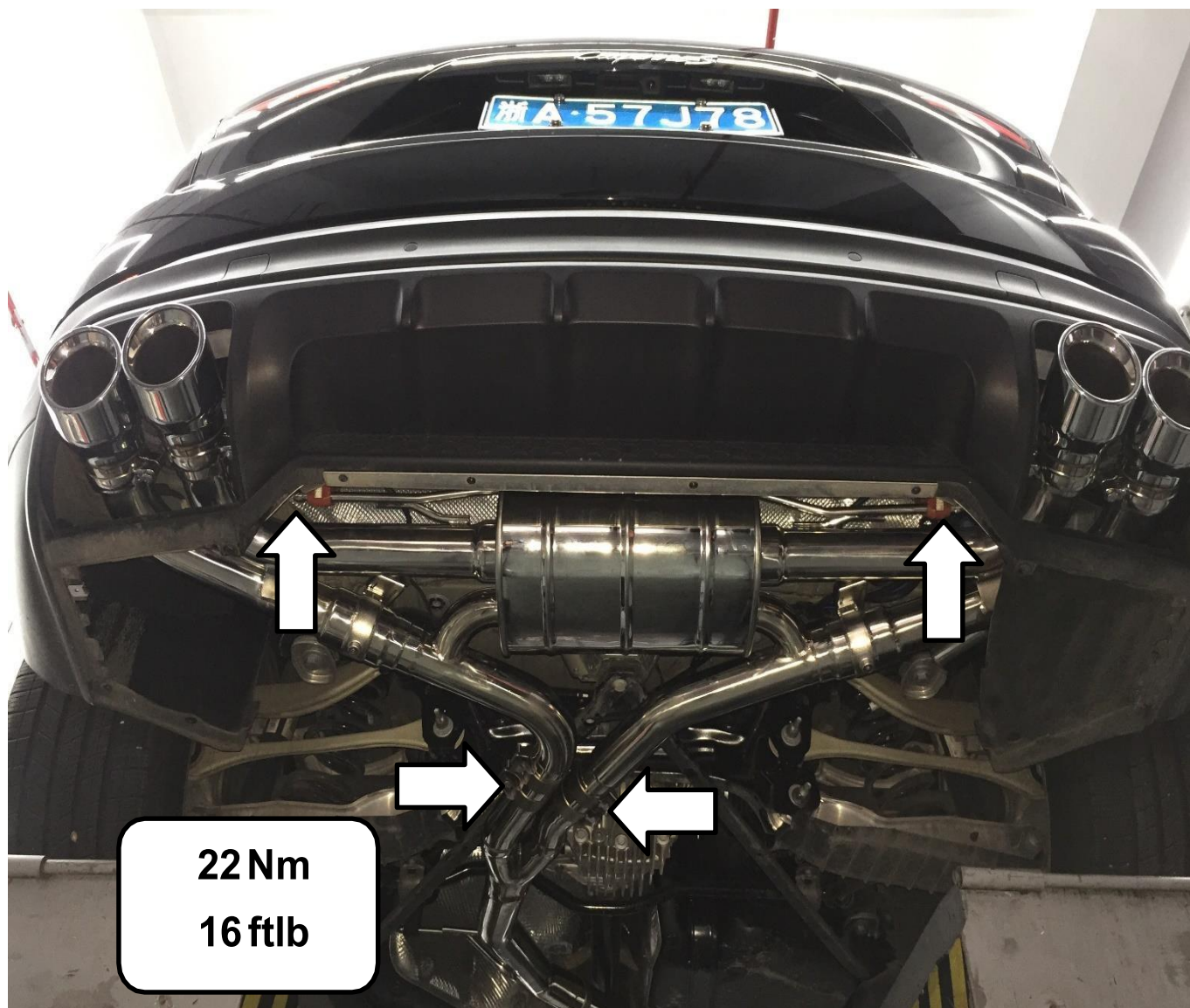


Fig. 13

6. Steps and focused points for installing the OBDII

1. Install the solenoid valve and Vacuum pressure reservoir to the right of the muffler. (Fig.14)
2. Connect the vacuum tube to the vacuum ball, pressure reservoir, and solenoid valve.



Fig. 14

3. Extend the vacuum tube and solenoid valve to the front of the car, the vacuum source and connect the vacuum tube to the engine vacuum source.

4. Find the blue and black wires (solenoids valve wires), put these two wires trough the rubber sleeve next to the steering column into the cabin.

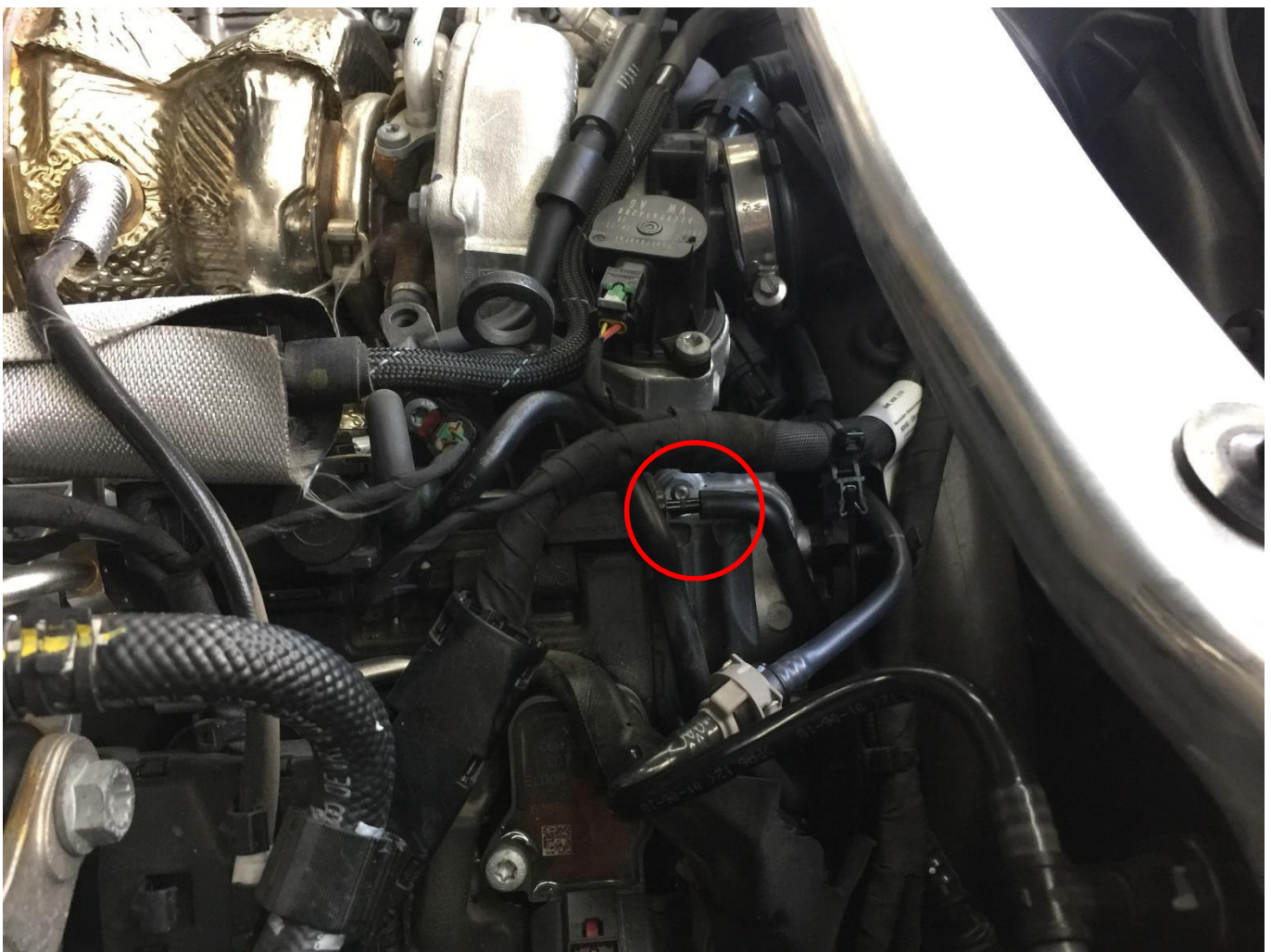


Fig. 15

Warning: When taking over, be careful not to interfere, in order to avoid damage of the vacuum tube.

5. Install the controller positive fuse holder to the red circle spot.

(Fig.16)

6. The negative is connected to the near screw and lock it. (Fig.17)

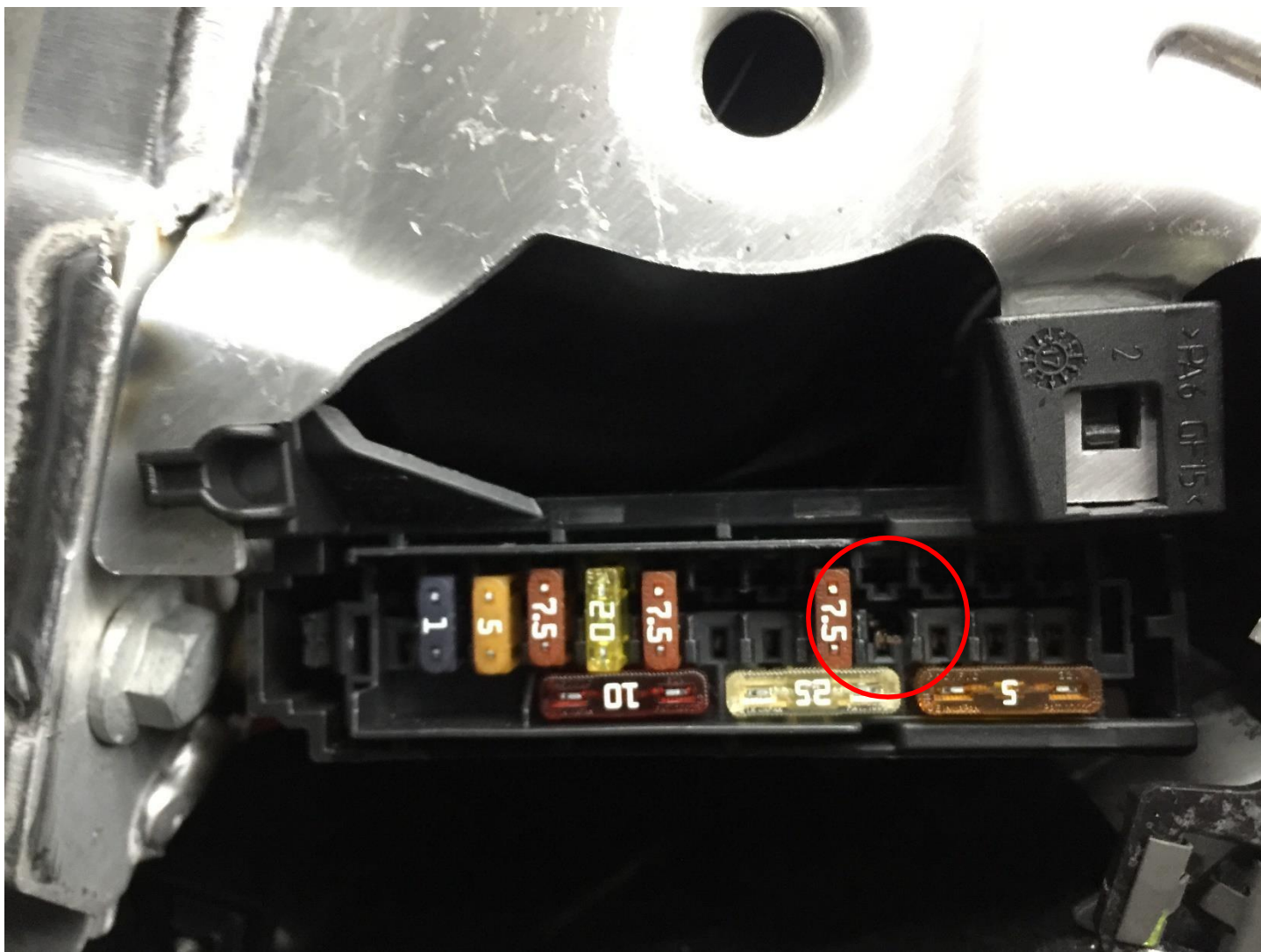


Fig. 16

Warning: Pay attention to the steering column to prevent damage to the wires.



Fig. 17

Warning: When taking over, be careful not to interfere, in order to avoid damage of the vacuum tube.

7. Plug the OBDII and reset it again. Test if the switch of the valve is normal. (Fig.18)

8. Install all the removed parts, and lock them with proper torque and reverse all installation procedures.



Fig. 18

Warning: Be careful with wiring, don't pull the wire strongly to damage the wire.