



iPE Exhaust

Automotive exhaust system engineering

BMW

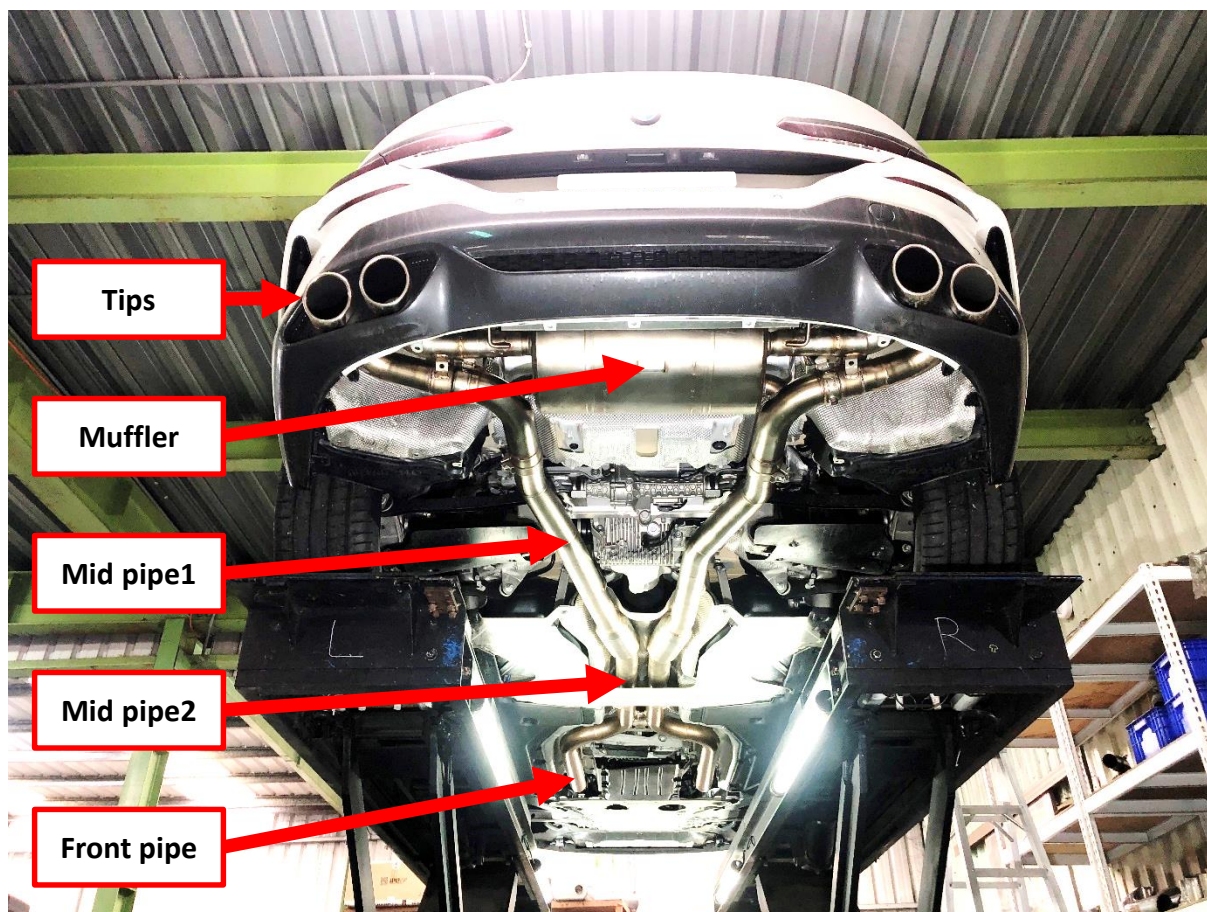
G15 M850i

Installation instruction

Announcement

- The exhaust system developed by iPE is based on the original factory exhaust, so it will remain unchanged after installation.
- The car keys of many cars have an inductive power transmission function with the car itself, so make sure the car keys must be kept at least 5 meters away from the car itself to ensure safety.
- Make sure the exhaust is already cool down.
- When the auto mode is on, please avoid valve open too early that may cause some vibration; it is recommended to set the valve opening to 60% of the accelerator pedal. For more details, please refer to the control box setting. °
- The iPE exhaust is designed based on the factory engine data. If the ECU has been upgrade, may cause some vibration from the exhaust. iPE can provide custom design for these type of car, please contact us for more detail.

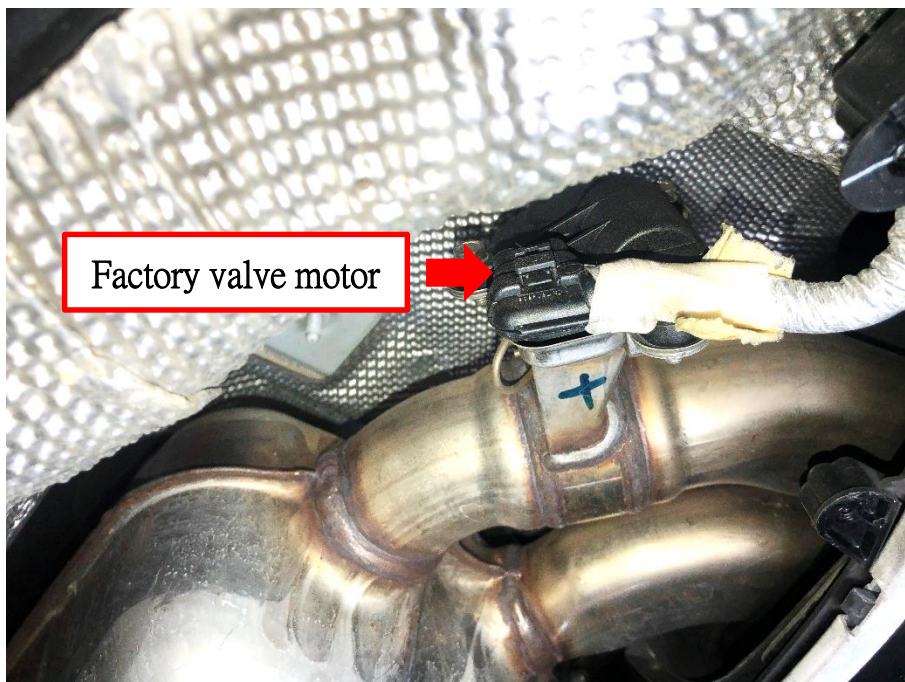
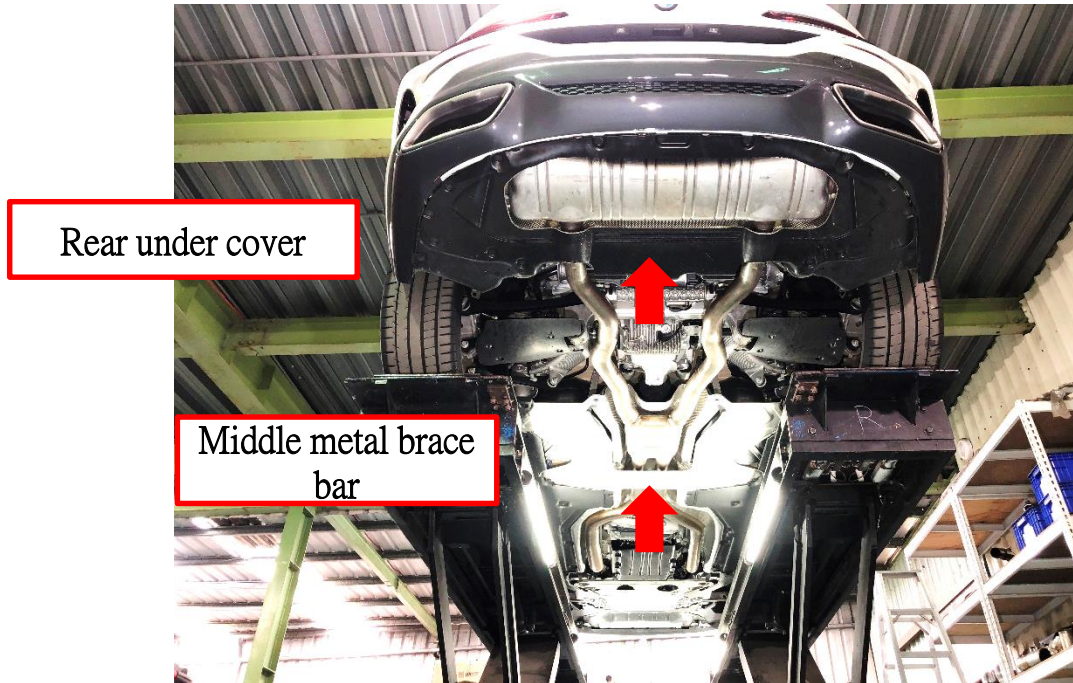
BMW G15-M850i factory exhaust



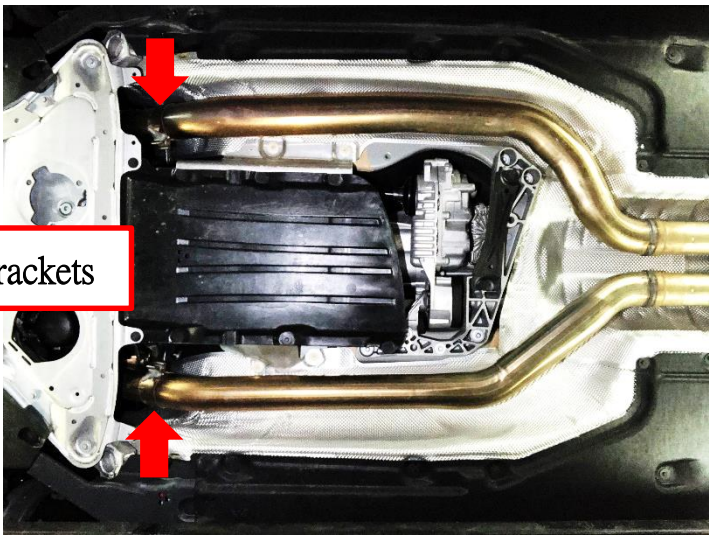
Catalytic Converter

1. Disassembled OEM exhaust

1. Remove the rear and middle metal brace bar.
2. Unplug the factory valve motor.



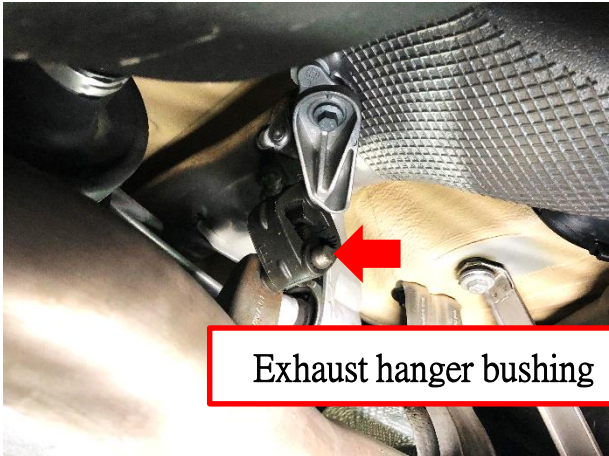
3. Remove the front exhaust brackets, remove middle and rear exhaust hangers. You can remove the middle an rear section of the factory exhaust.



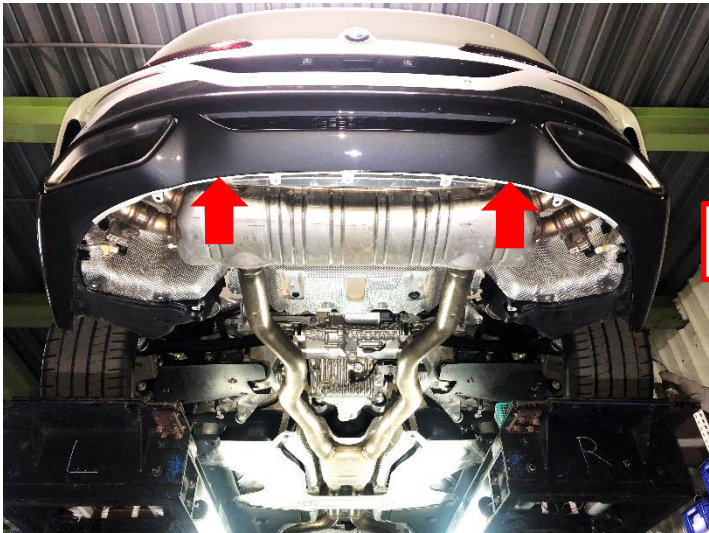
Front exhaust brackets



Exhaust hanger bushing

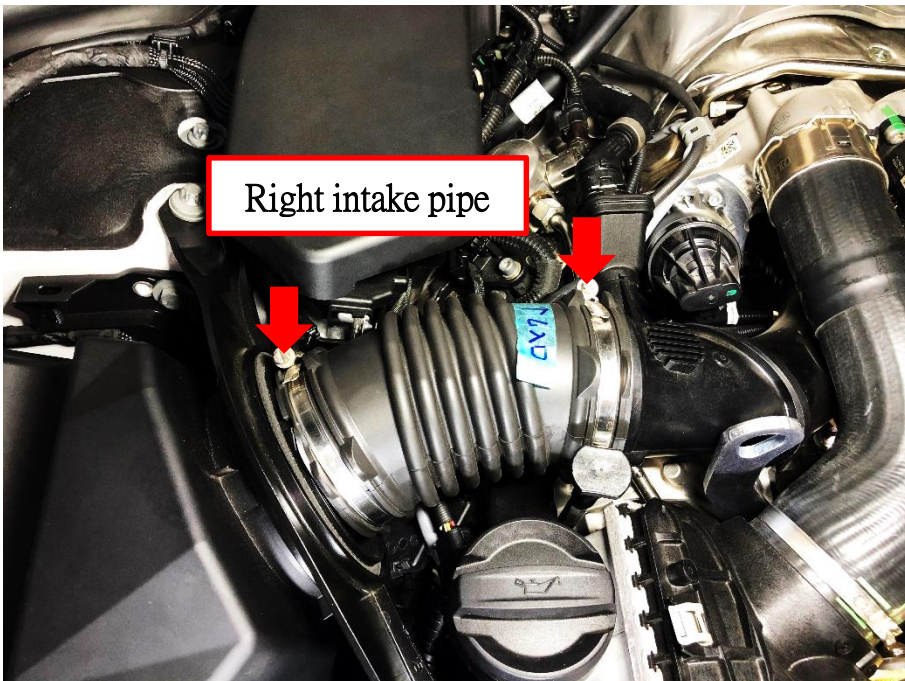
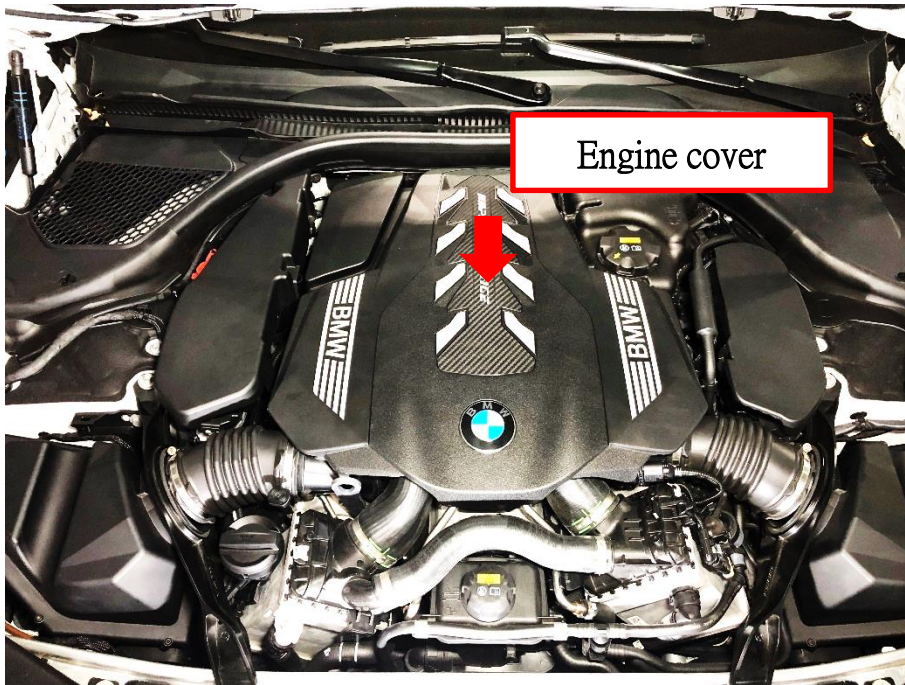


Exhaust hanger bushing

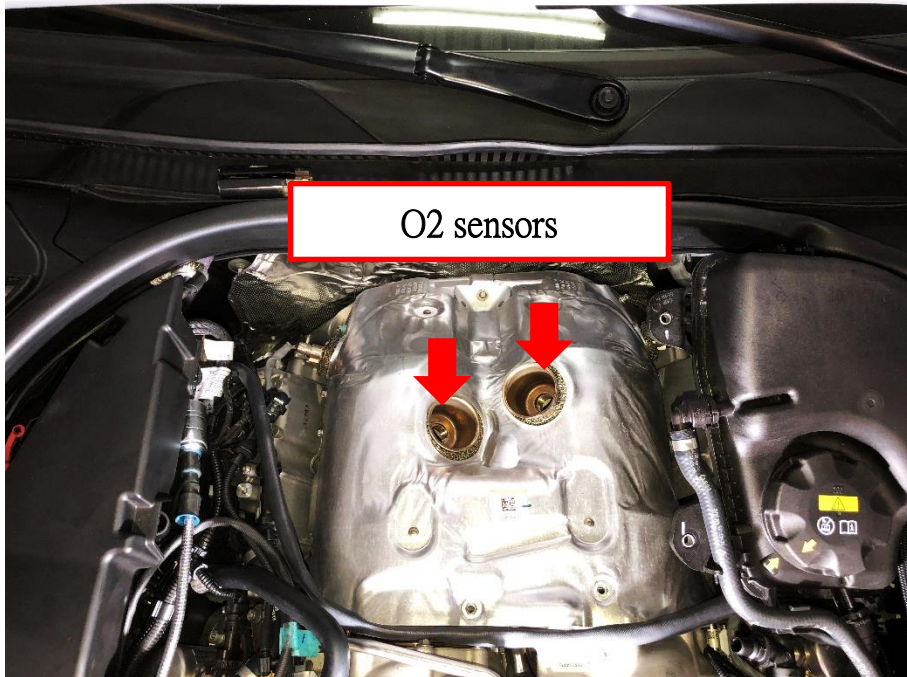
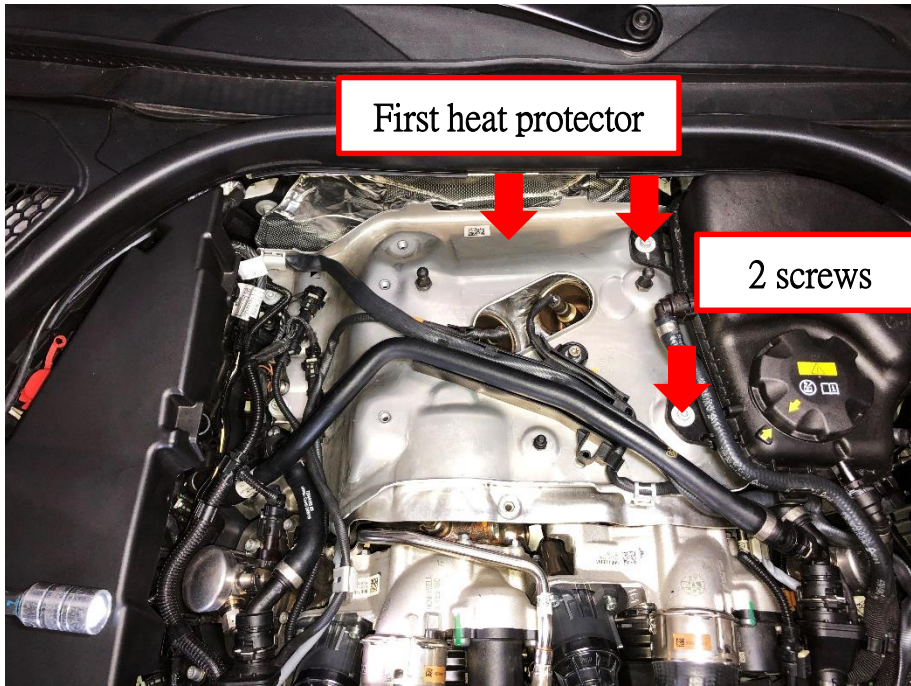


Rear exhaust hangers

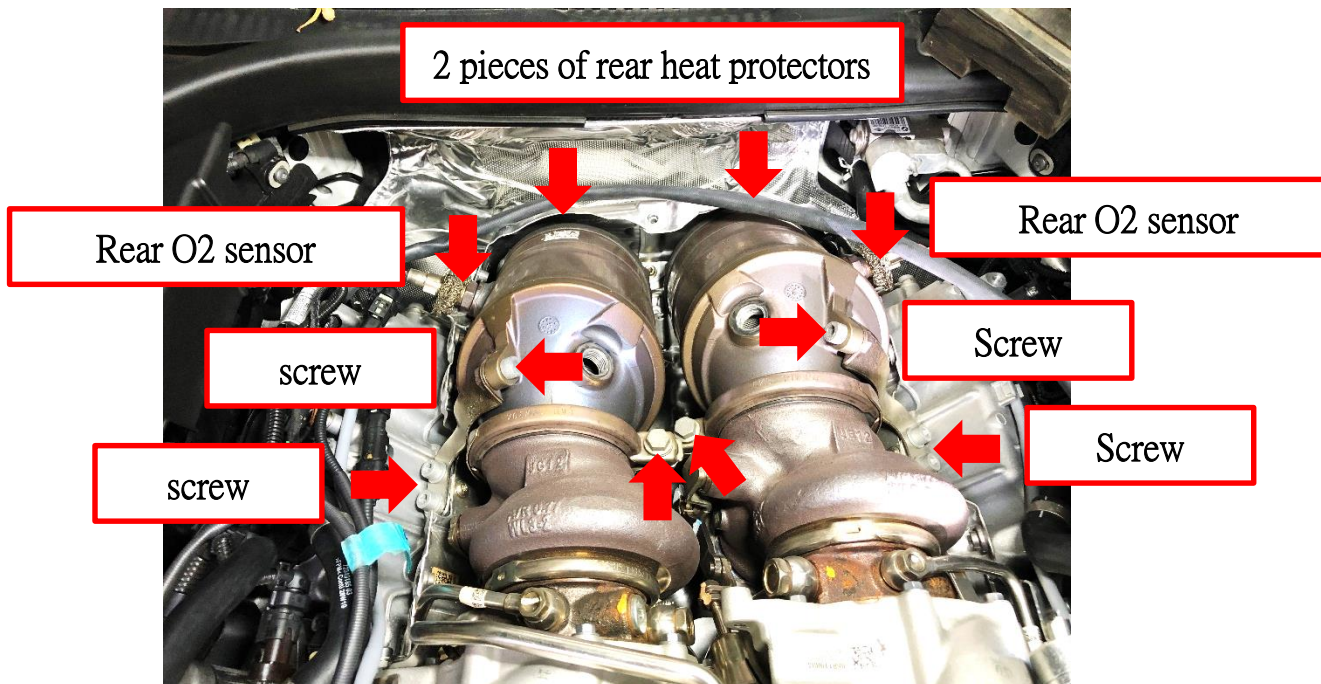
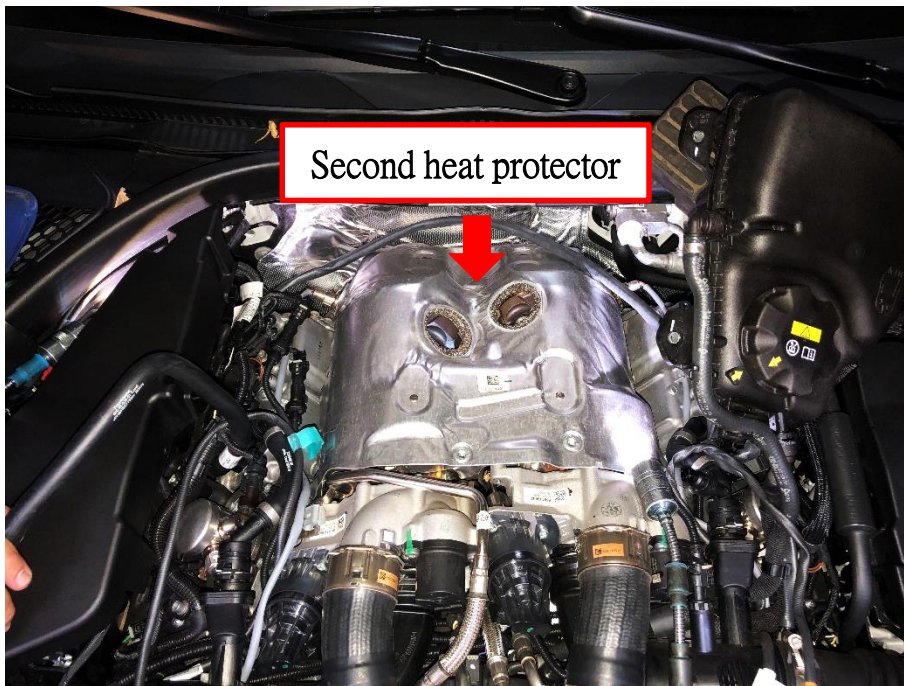
4. Take off engine cover.
5. Remove right intake pipe.



6. Remove the screws.
7. Disconnect both O2 sensors.
8. Take off the first heat protector.

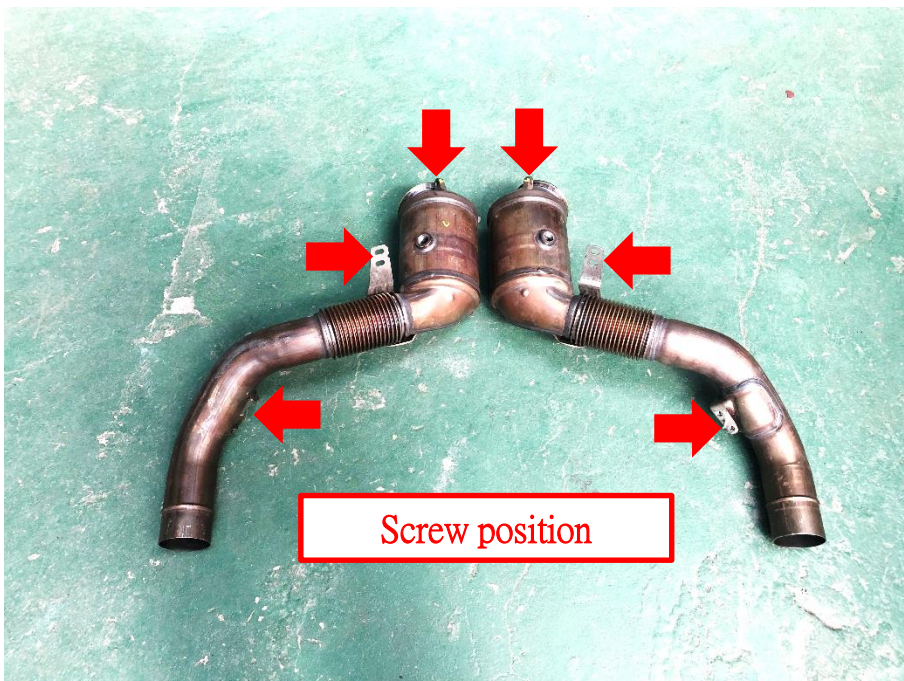
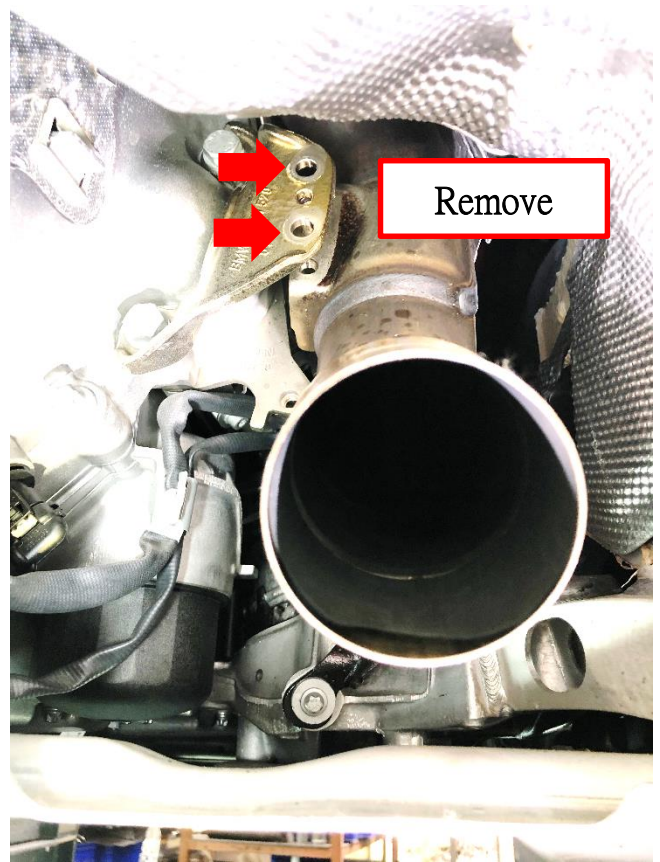
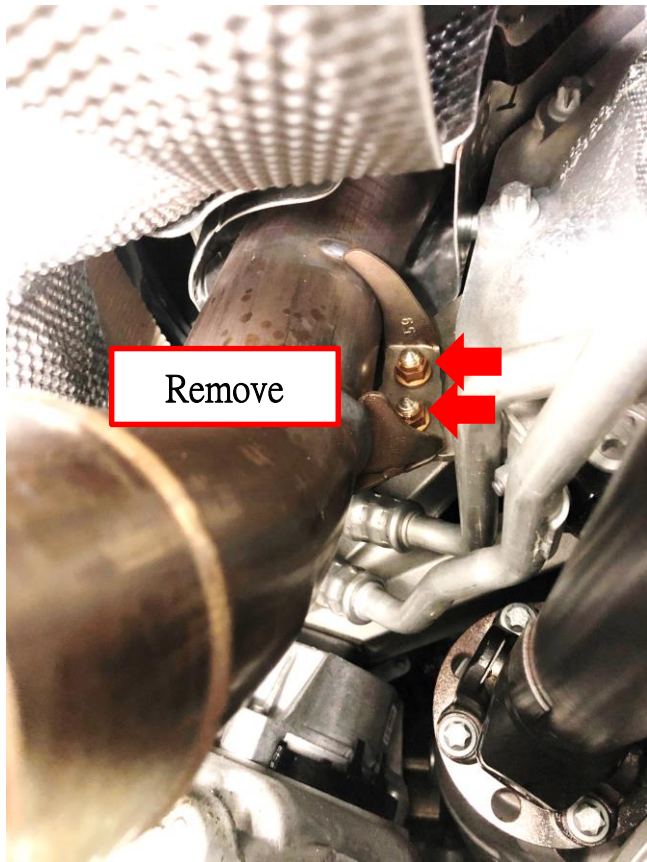


9. Take off the second heat protector.
10. Remove several screws from the engine bay.
11. Disconnect 2 rear O2 sensors.
12. Remove 2 pieces of heat protectors.



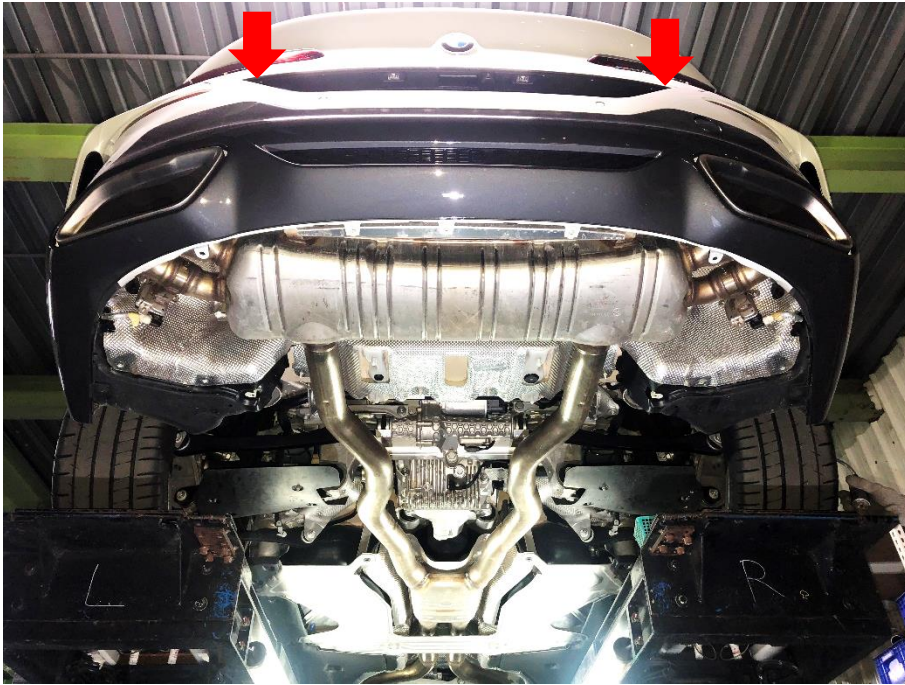
13. Remove several screws under the car.

14. You may take out the catalytic converter from the engine bay.



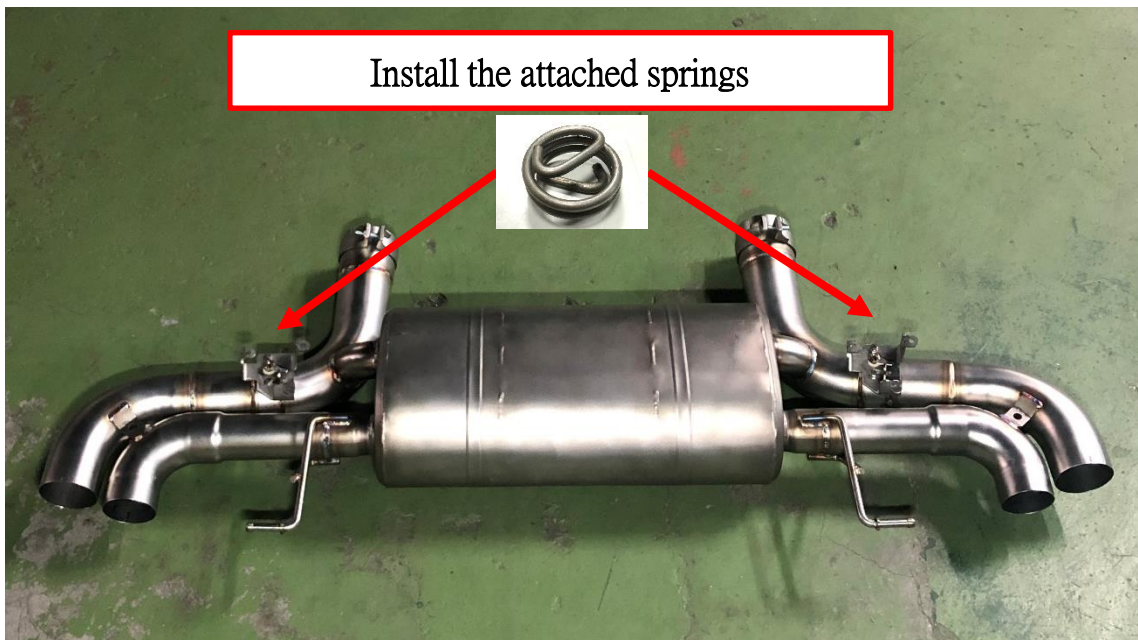
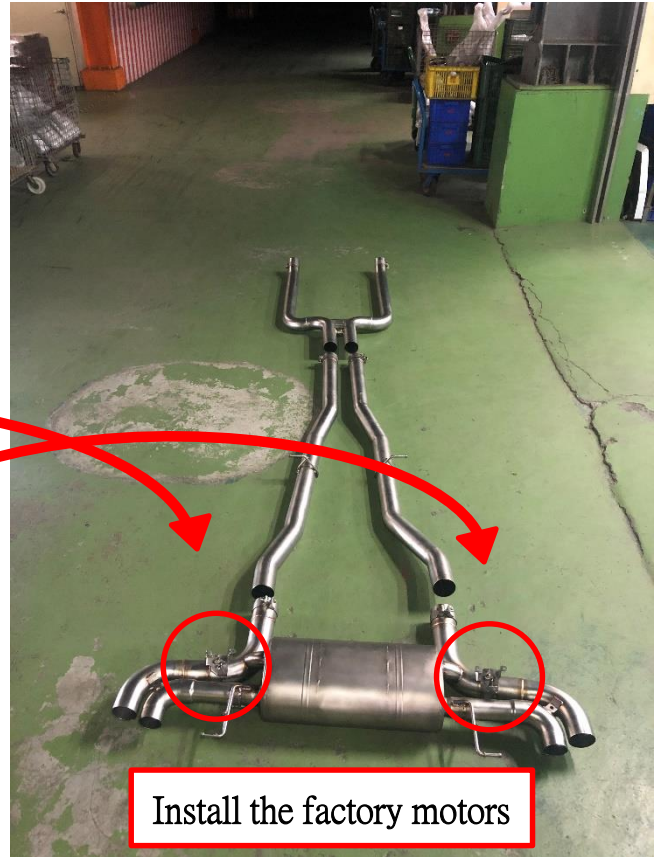
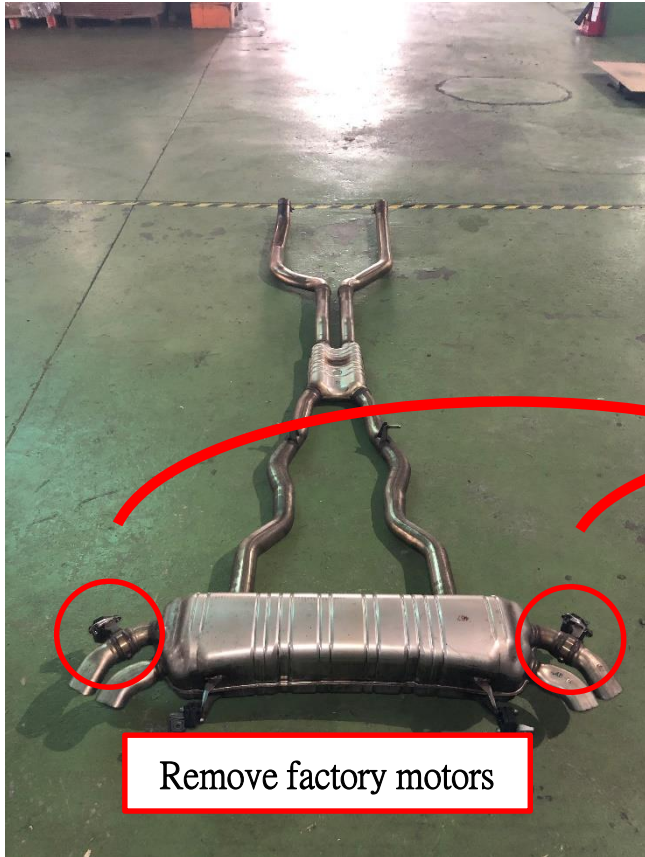
15. Remove the black trim of rear bumper.

16. Remove the factory tips.



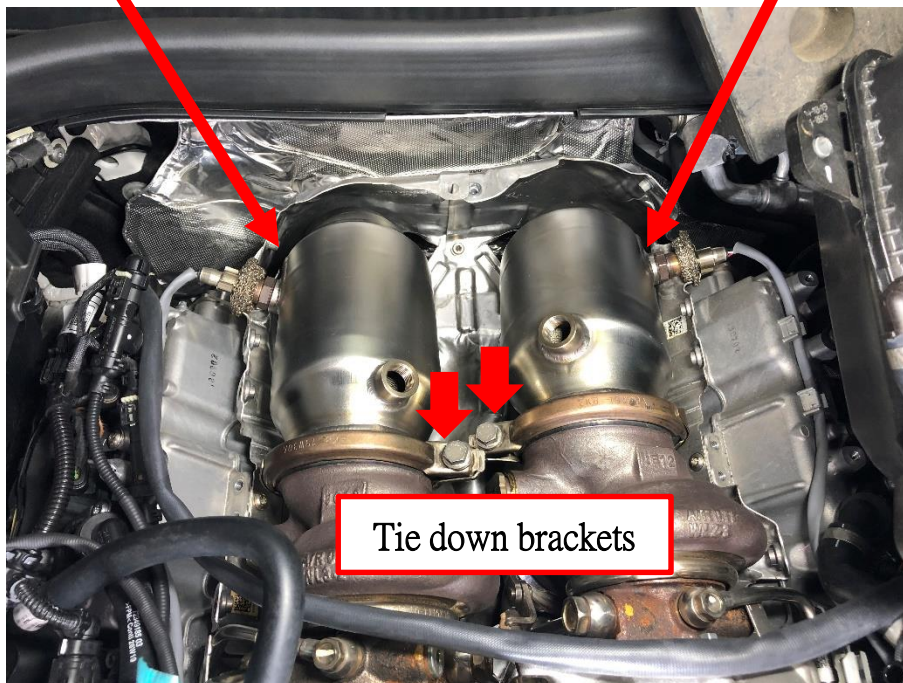
17. Swap the factory valve control motor to iPE exhaust system.

18. When installing the motor, please install the attached spring first under the motor.

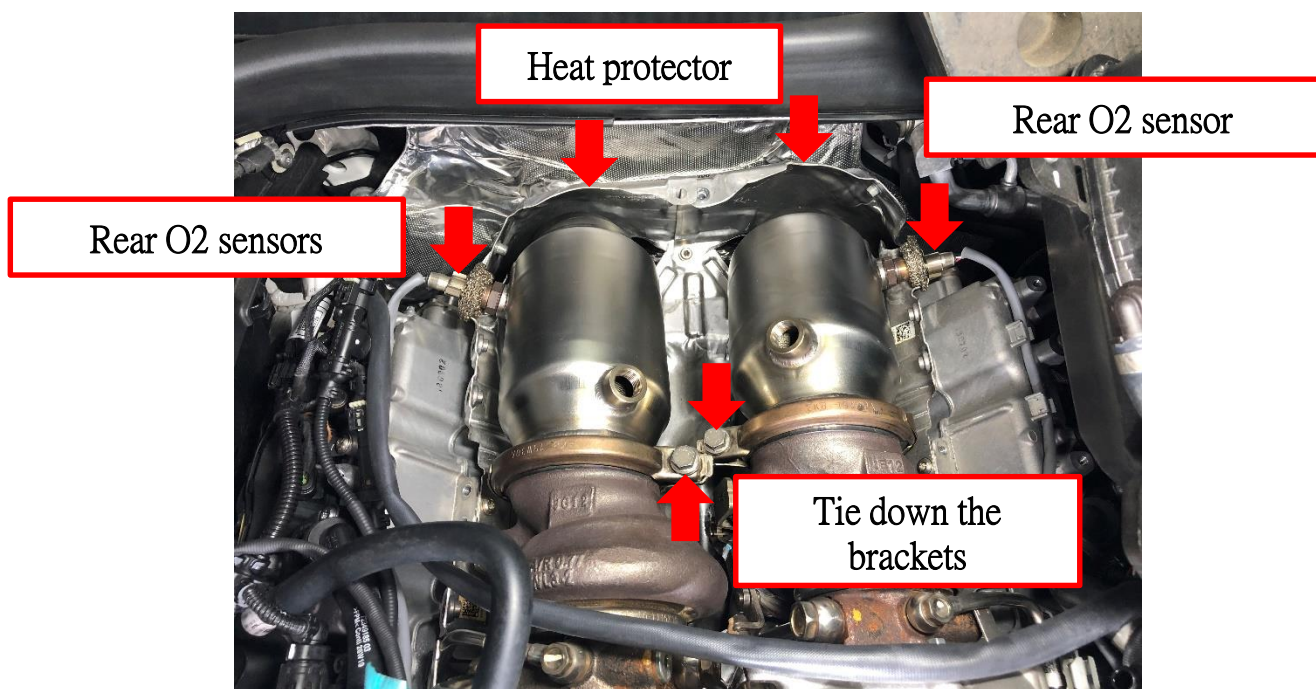
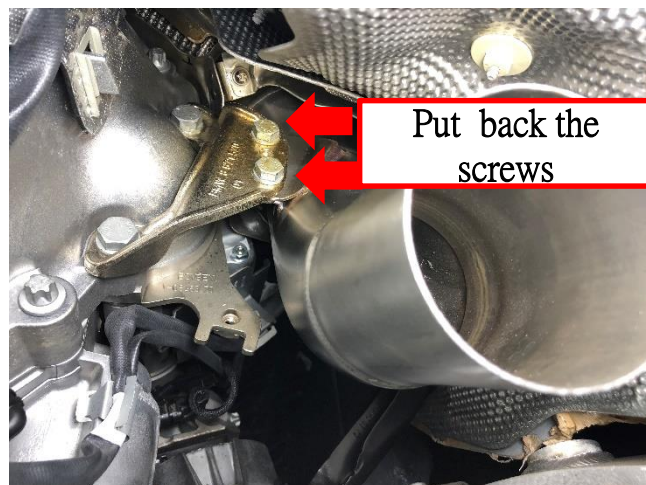
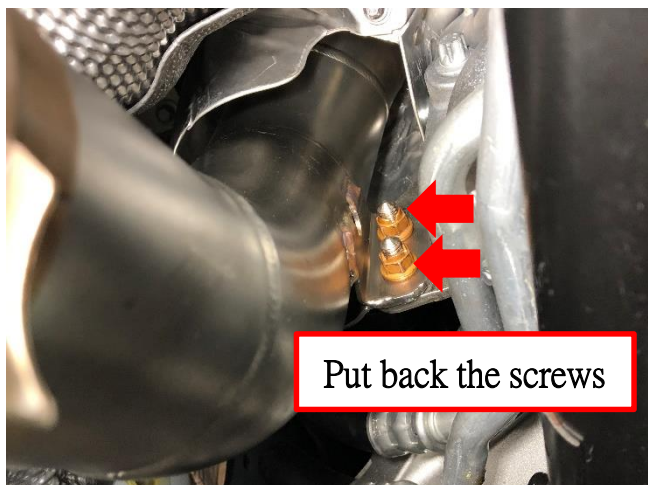


2. Instruction for iPE exhaust

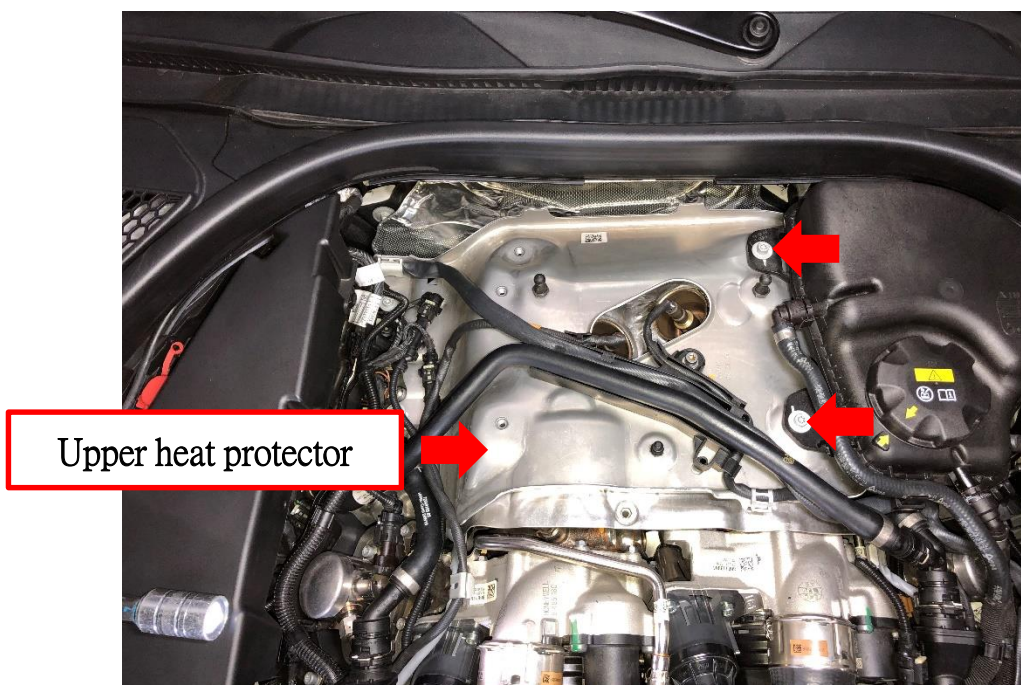
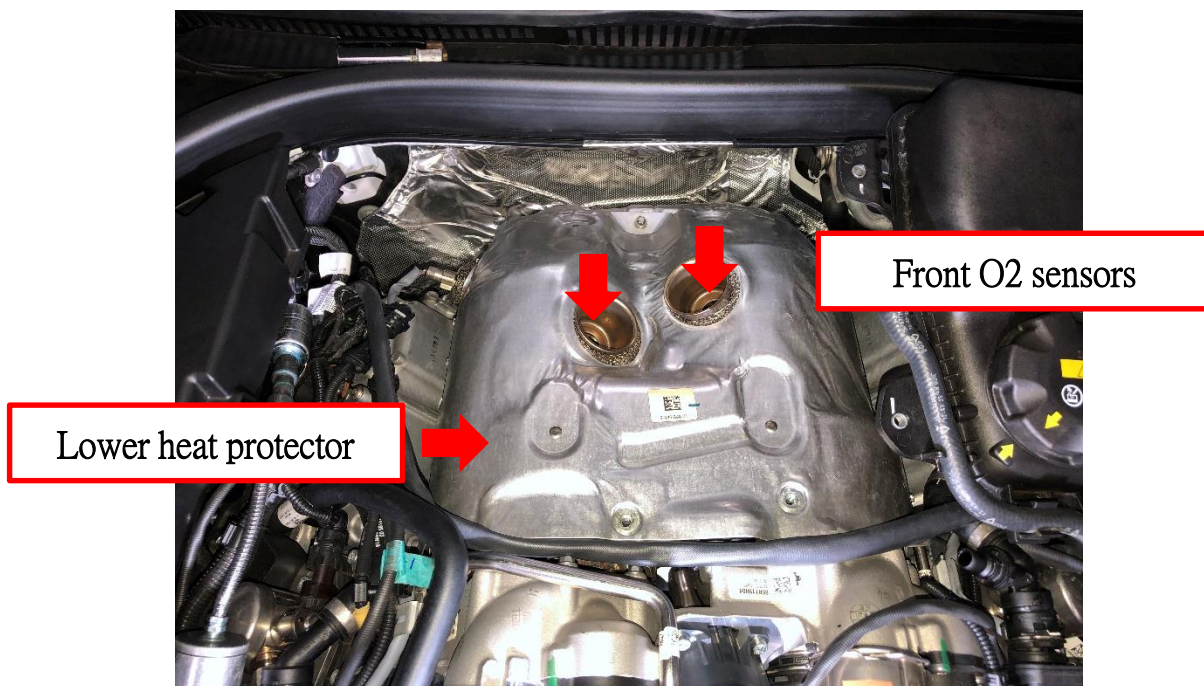
1. Install the catalytic convertor and tie down the screws.
2. Hand tie the brackets between turbo and catalytic converter first.



3. Reunited the parts and tie back on the screws been took off.

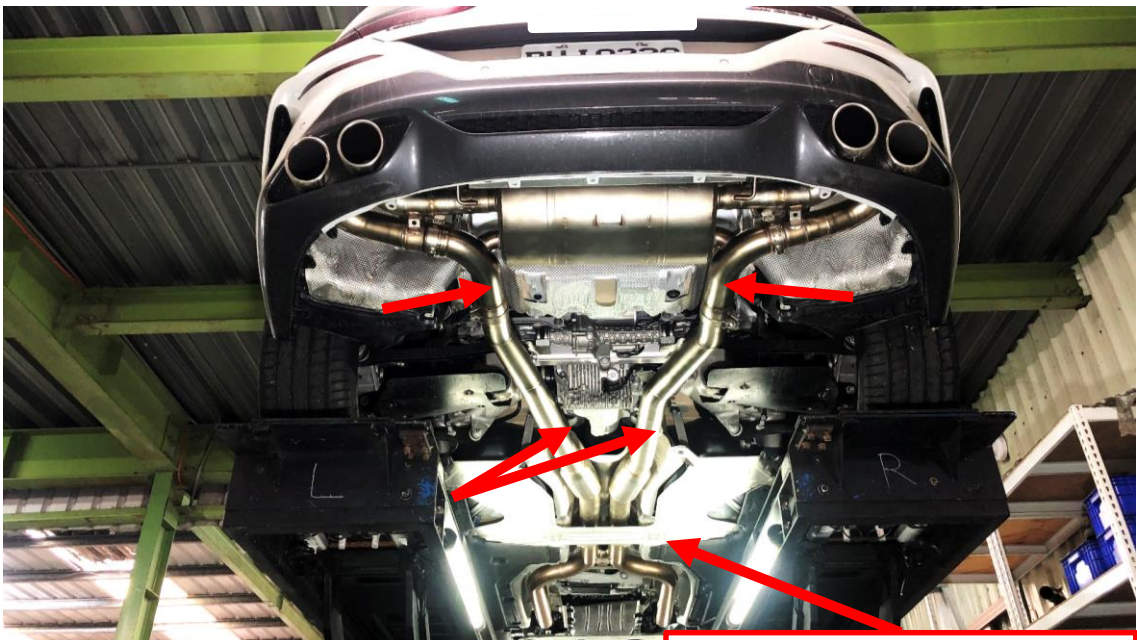
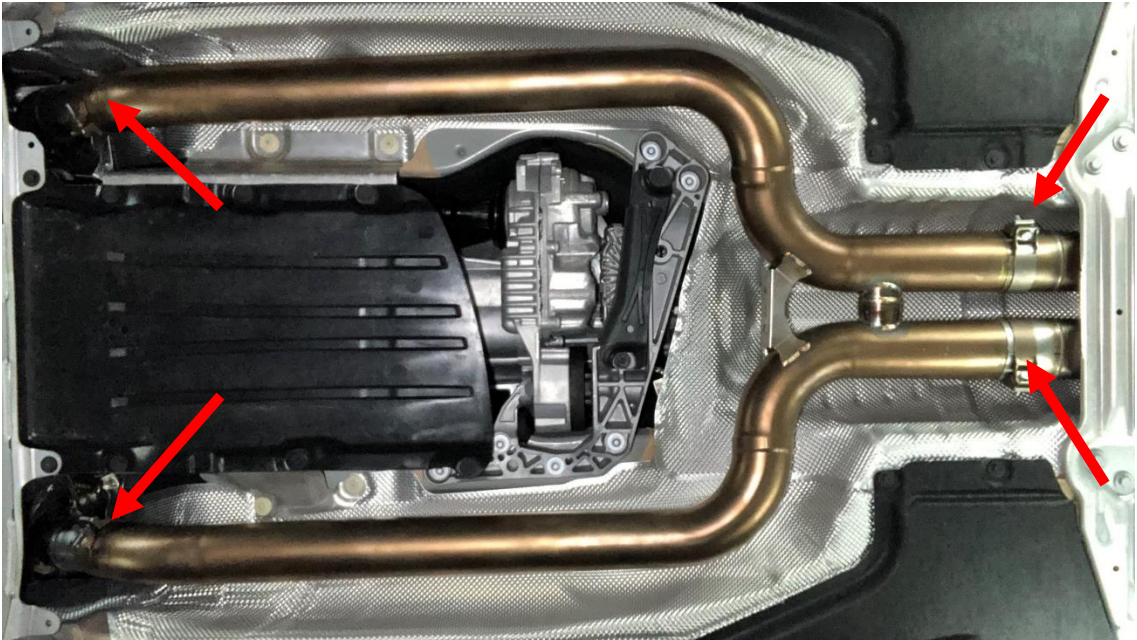


4. Reinstall front O2 sensors and heat protectors and put back the engine cover.



5. Install two section of mid pipes and the muffler.

Keep the distance between the exhaust and under brace bar at least 15mm.



At least 15mm

6. Make sure every section of the exhaust is in position and tie down.
7. Plug back the factory valve motor on and start the car to ensure the valves working properly.

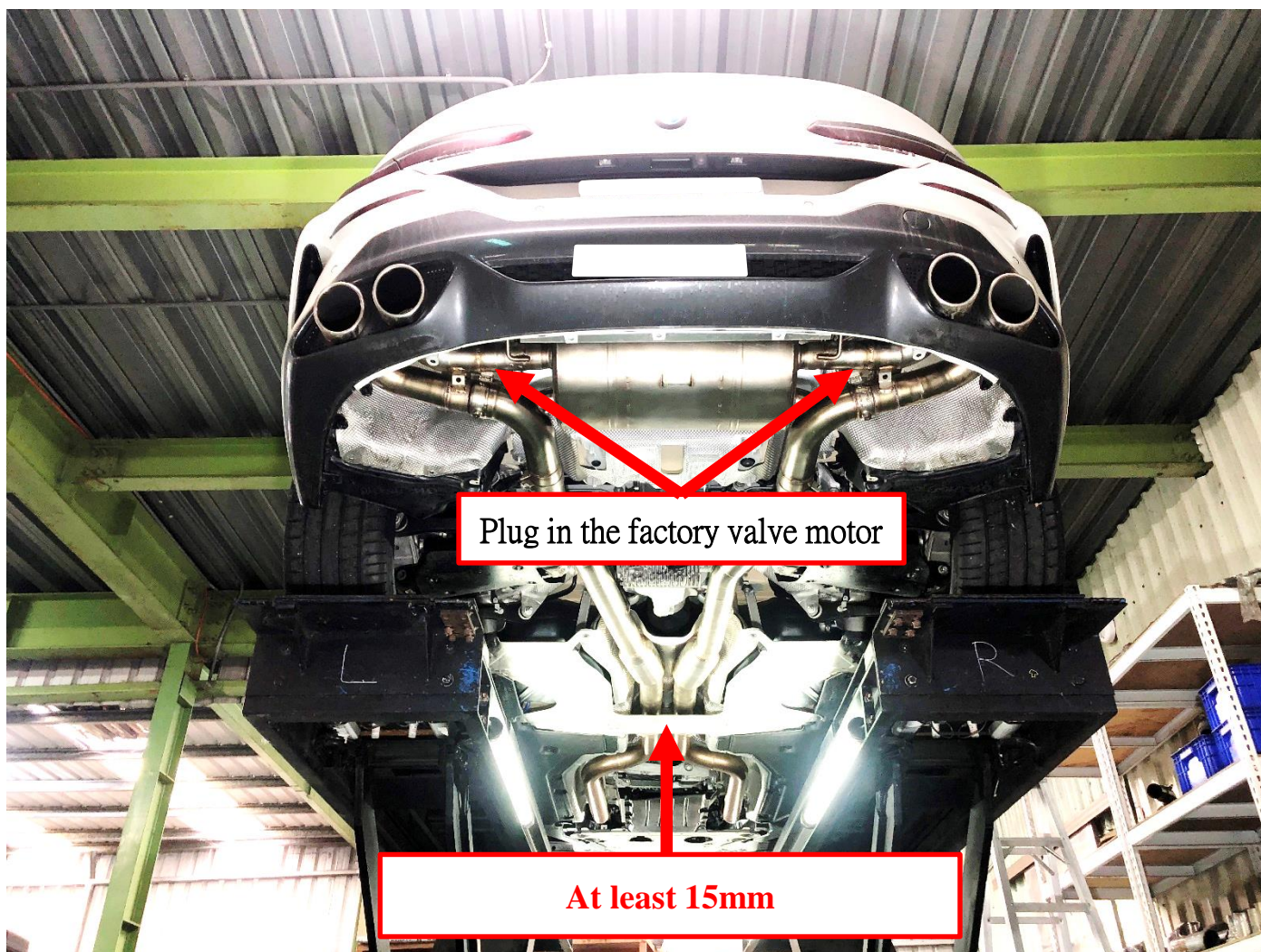
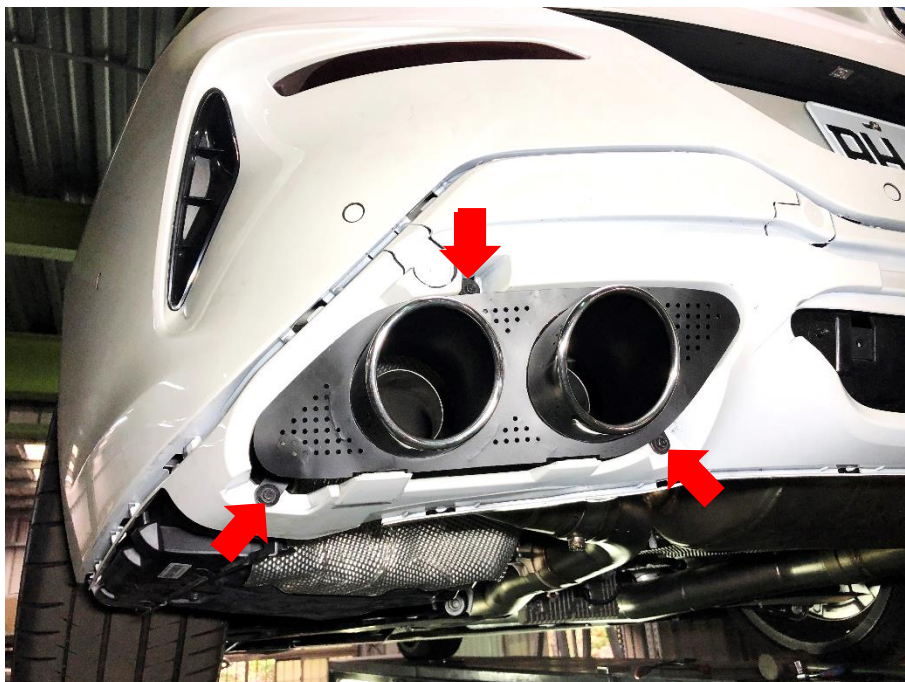
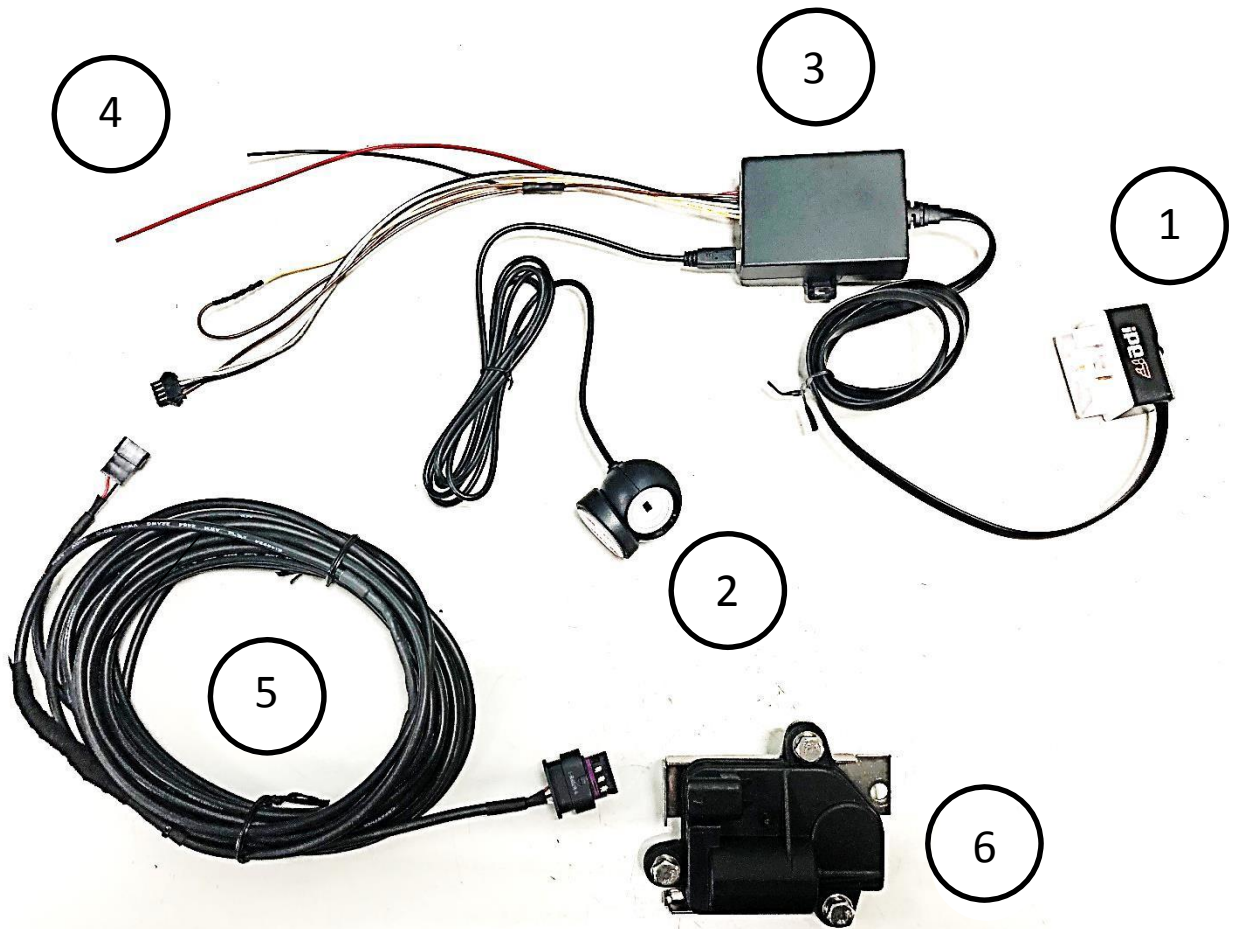


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8. Install iPE quad tips on the rear bumper.
9. Restore the black rim on the bumper.

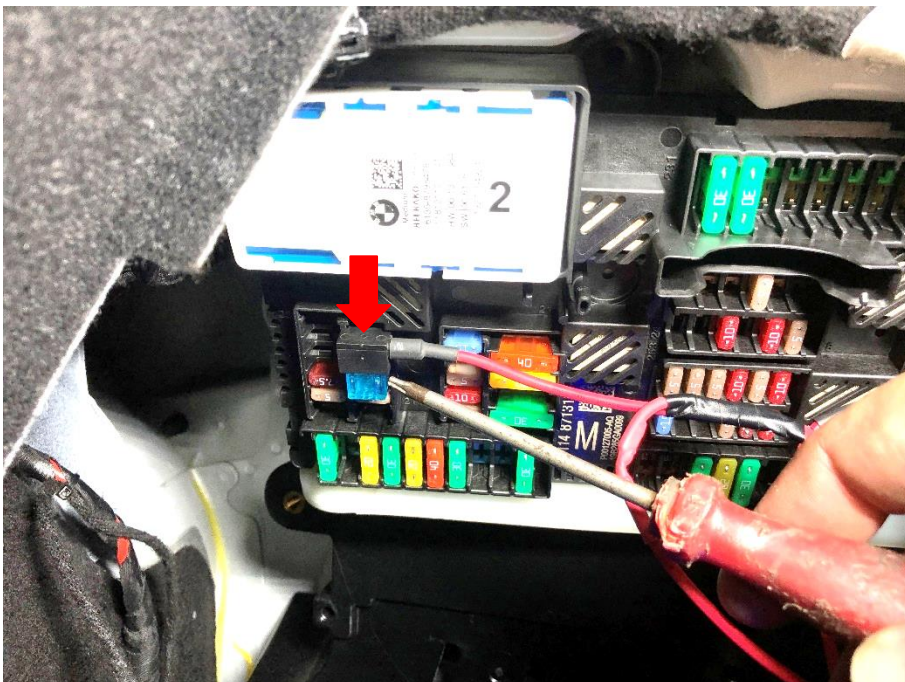


3. iPE valvetronic system



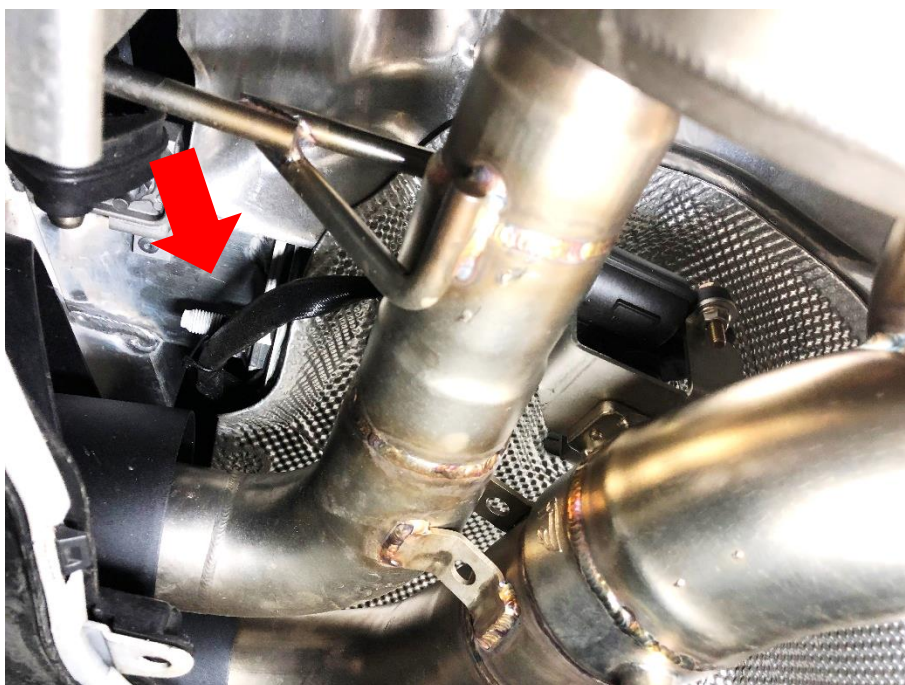
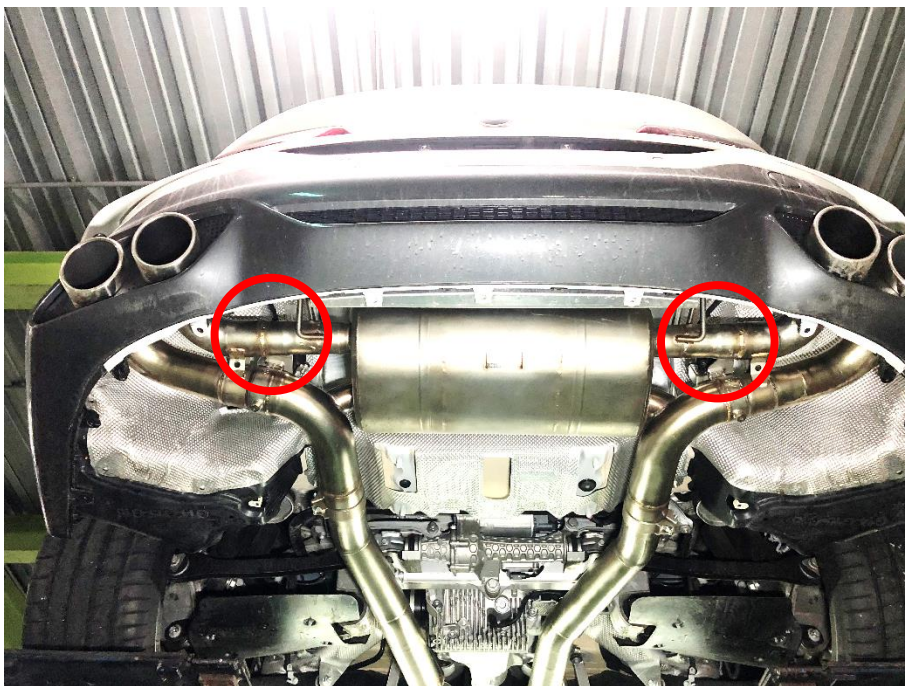
No	Items	No	Items
1	OBD2-Valve reader	4	OBD2 electronic wiring set
2	OBD2 with lighting sensor	5	OBD2 wiring set
3	OBD2-valve controller	6	BMW factor valvetronic motor

1. Test the ACC positive charge from the fuse box on the right rear of the trunk and pull it under to the front driver's seat.



2. Plug in the electronic motor plug, and pull the OBD2 cable from the rear of the car to the front left driver seat.

※ The original plug should be wrapped with insulating tape and hidden in the heat shield.



3. Connect the negative cable to the ground screw under the steering wheel.
4. Remove the interior trim panel of the driver's seat, and then pull the cable into the car to install the OBDII reader and other accessories.
5. Restore every interior panel after the installation.

