



# iPE Exhaust

Automotive exhaust system engineering

***BMW***

***G05-X5 40i***

Product installation instruction

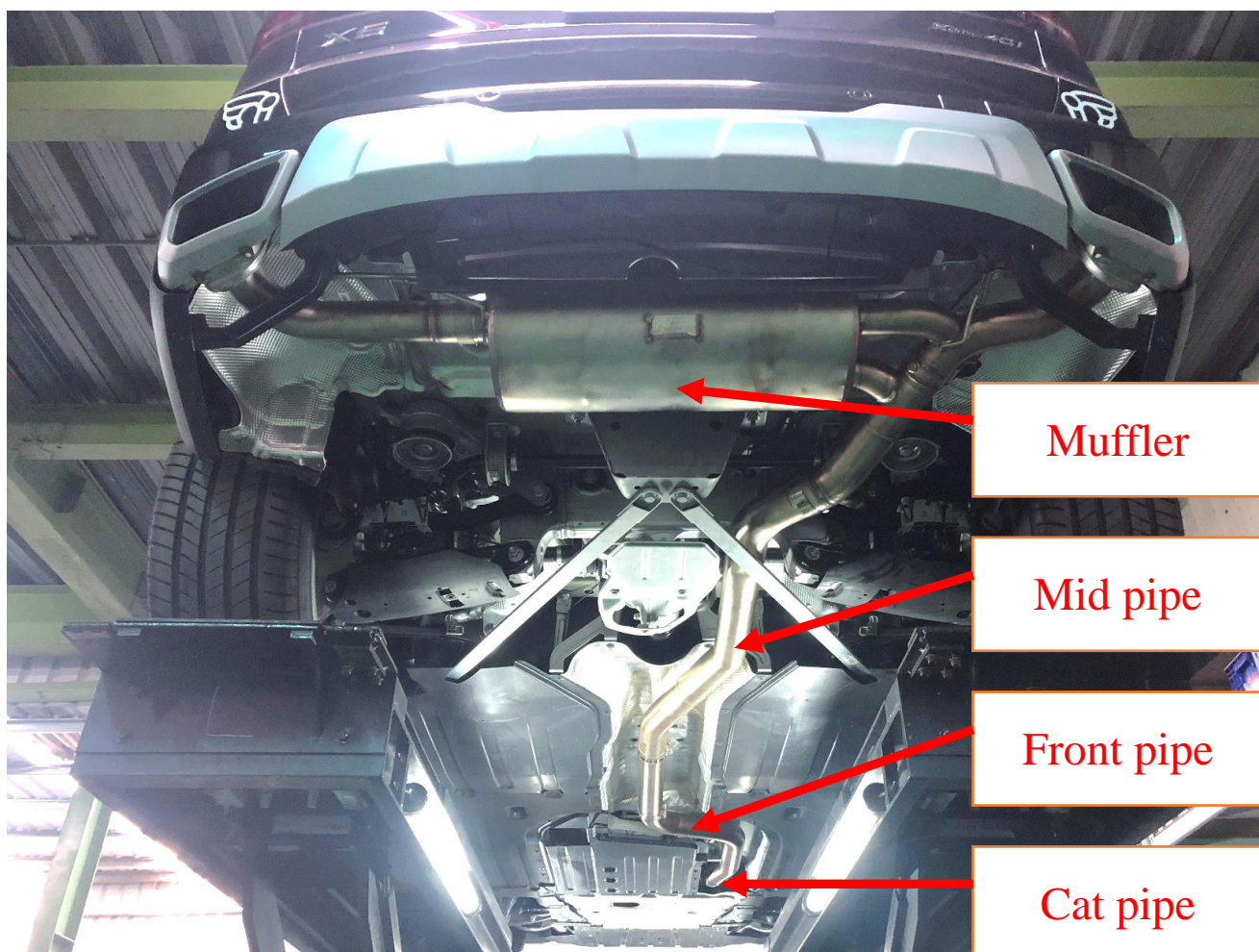
# 1.Important information

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](mailto:info@ipe-f1.com)

## BMW G05-X5 40i product assembly



# **(1) Remove the original exhaust pipe**

1. Remove the front pipe clamps and bushes screws.(Fig1)

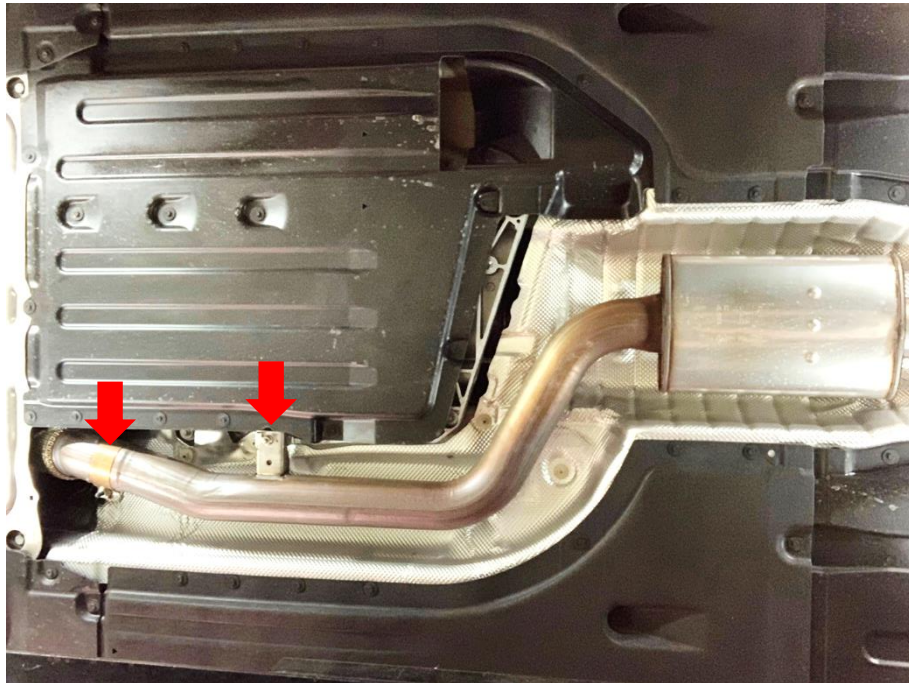


Fig. 1

2. Remove the both of middle and back side lower guard.
3. Remove the chassis support and muffler bushes.
4. Remove the OEM cat back and motors above the muffler.

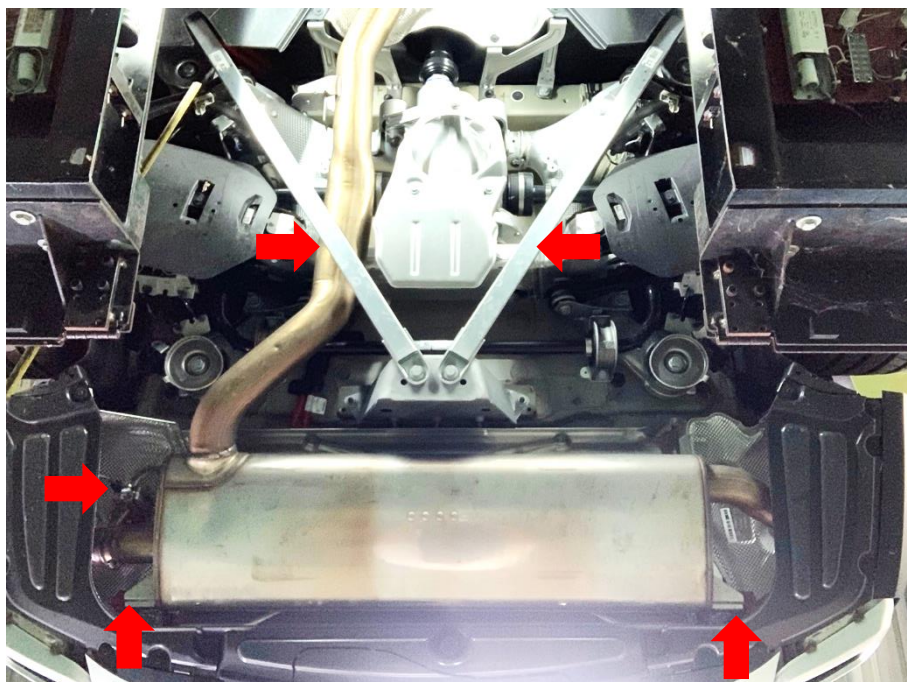


Fig. 2



1. Remove the retainer clamps, bushes screw, the front and rear oxygen sensors, then remove the original cat pipe. (Fig3)

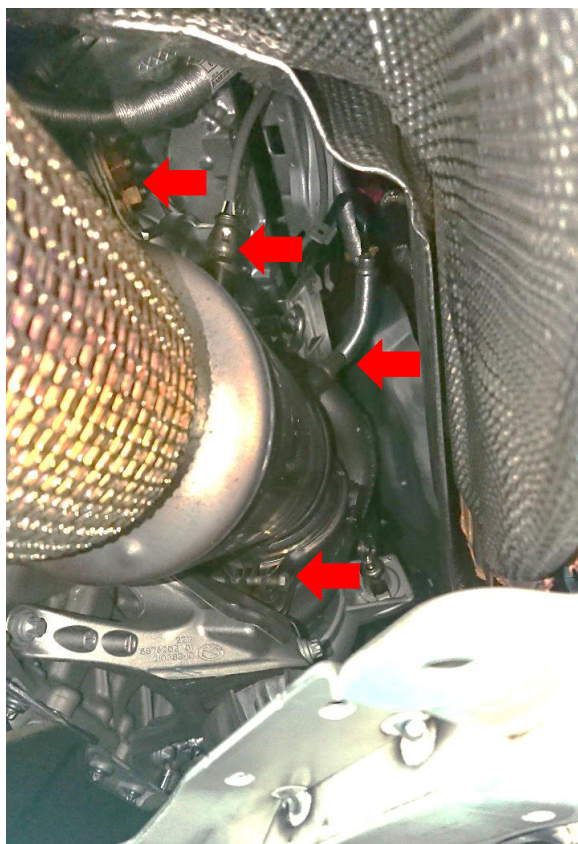


Fig. 3

2. Remove the original cat pipe washer and reinstall on the iPE cat pipe. (Fig4)



Fig. 4

## (2) Install the iPE exhaust system

1. Install the iPE cat pipe and lock the retainer clamps, bushes screw, front and rear oxygen sensor. (Fig5)

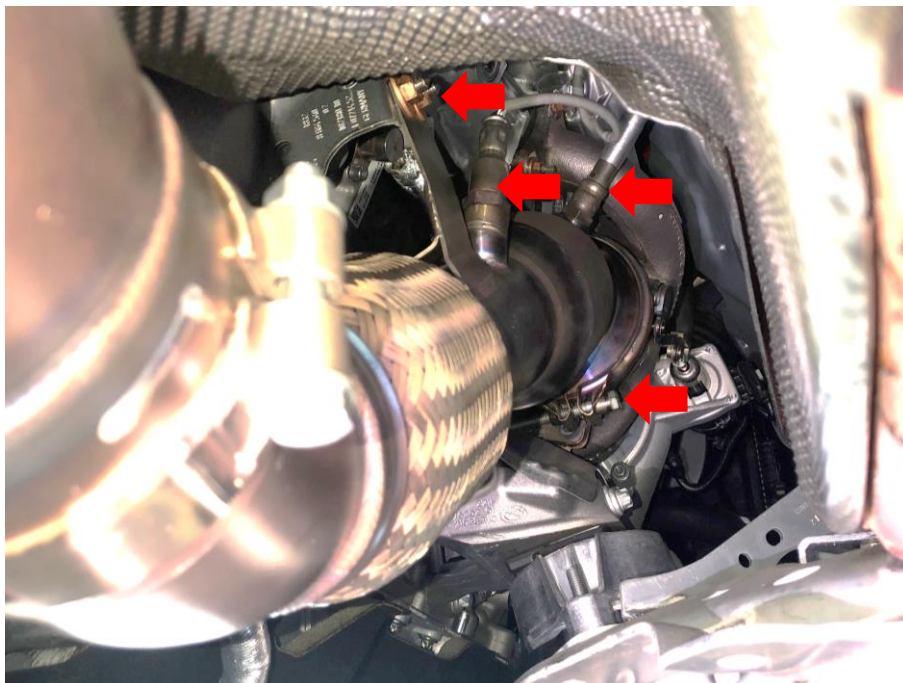


Fig. 5

2. Install the iPE front pipe screw the bushes and clamps. (Fig6)

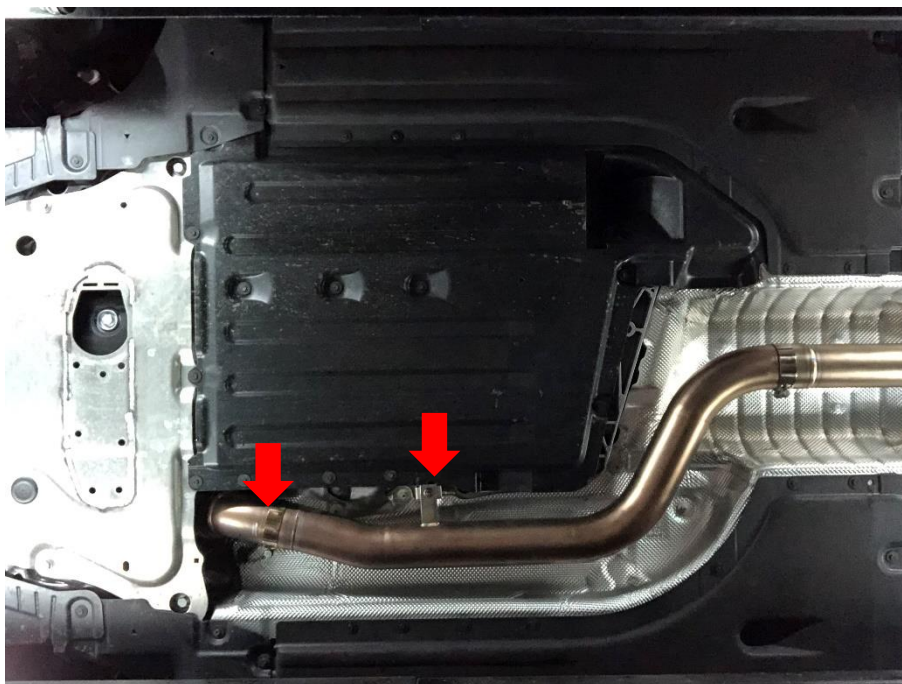


Fig. 6



3. Lock the OEM motor and springs together to iPE valve system. (Fig7-1)
4. The mid pipe between the chassis bracer gap 15mm.
5. Install the iPE mid pipe, bush and valve of muffler. (Fig7-2)

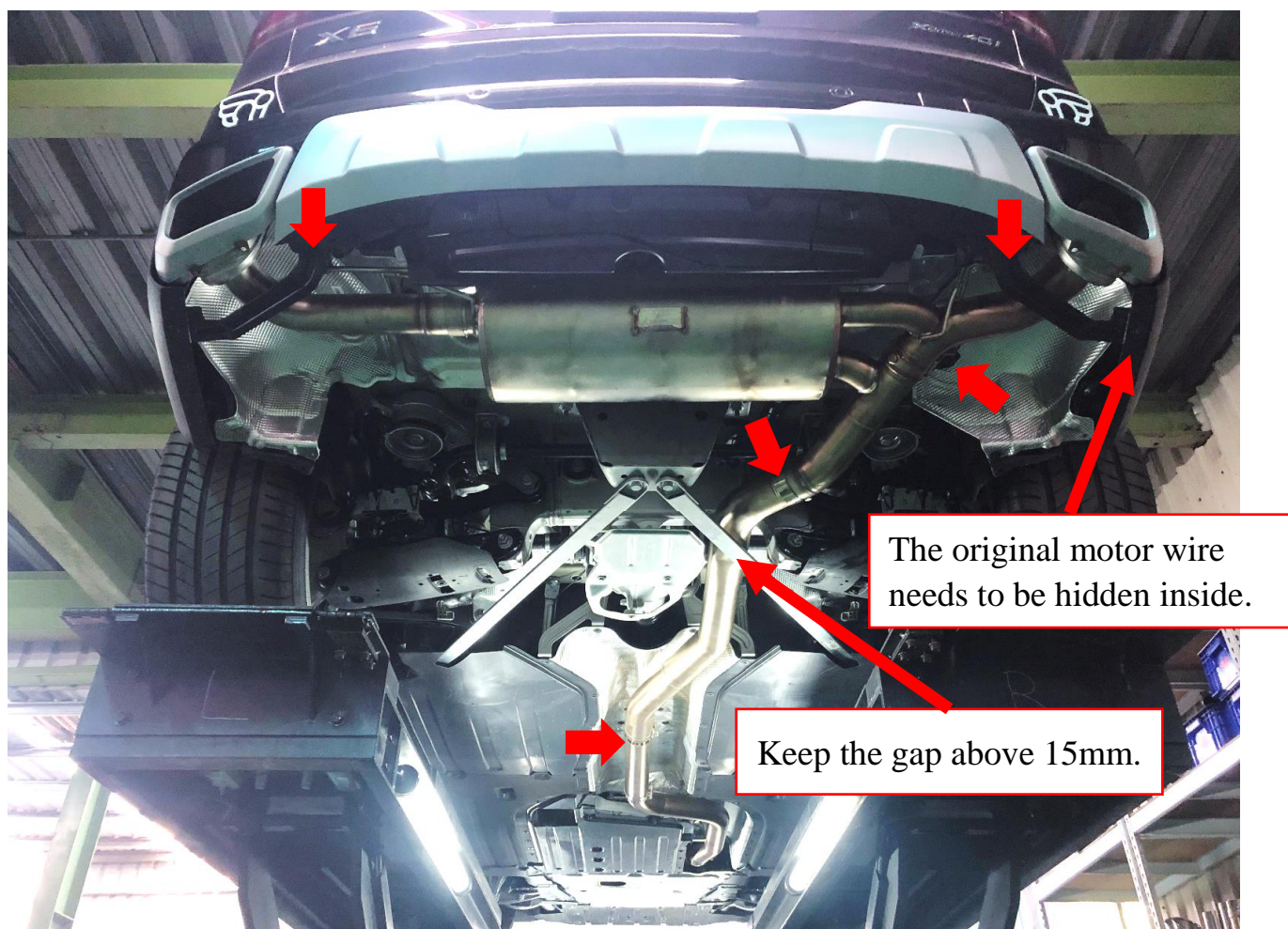


Fig. 7-1

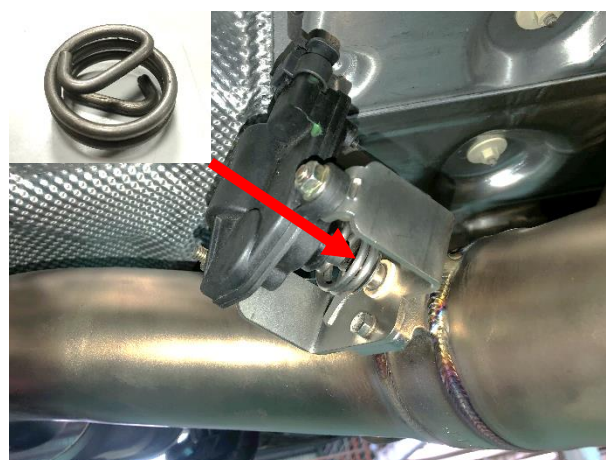
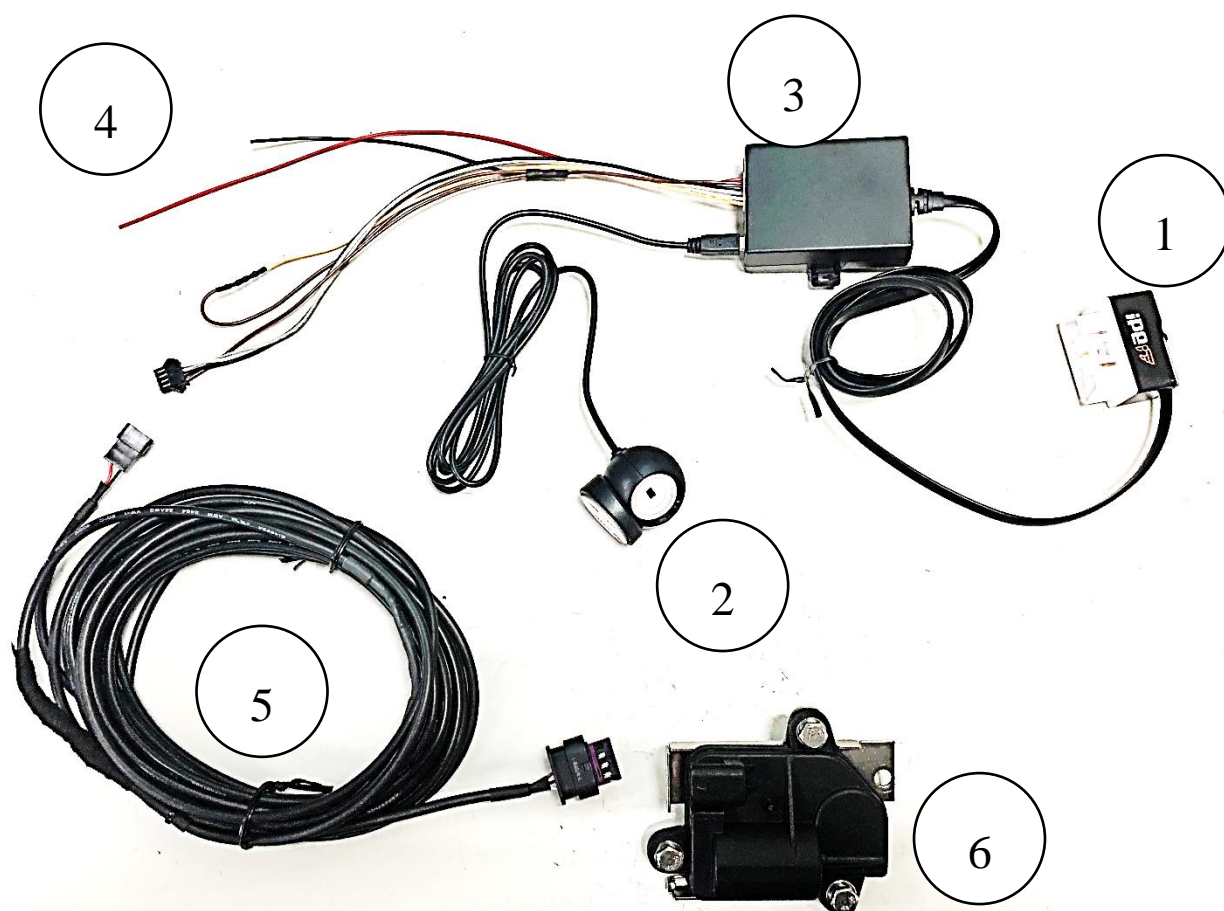


Fig. 7-2

### (3) Install the control box and wiring



No	Product	No	Product
1	OBDII-connector	4	OBDII-1K ohm electronic motor cable
2	OBDII-Laser light gesture controller	5	OBDII-BMW 4P extension cable
3	OBDII- Five-in-one controller for exhaust valve	6.	BMW original motor



1. From the fuse holder on the right rear of the trunk, measure the ACC positive power and pull it forward below the driver side. (Fig8-Fig9)



Fig. 8



Fig. 9

2. Plug the electric motor plug and pull the wire into the front left engine compartment. (Fig10)



Fig. 10

3. Remove the trim from the driver side, pull out the electric motor cable, recover after finishing the wiring, and connect OBD II.

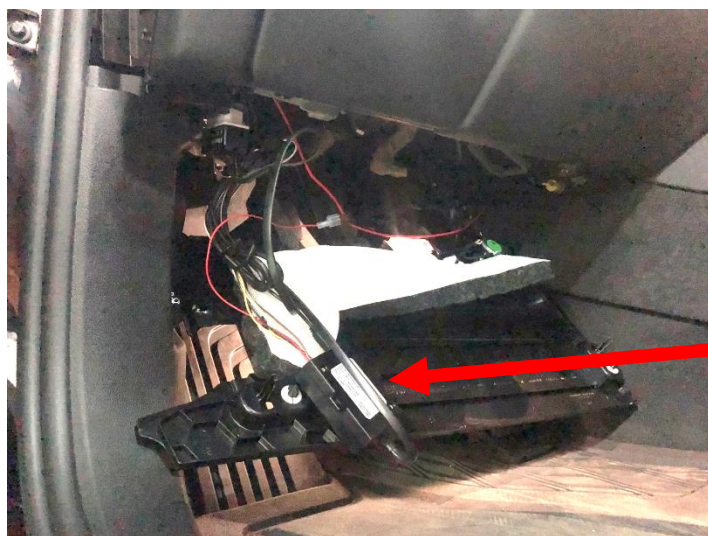


Fig. 11

