

### iPE Exhaust

#### Automotive exhaust system engineering

# Mercedes-Benz C43 / C400 / C450 (W205)

Product Installation Instructions

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### (1)Important message

1. Please read the installation manual before installing the iPEexhaust pipe.

2. Please install by the technician of the car exhaust system or familiar with the iPEexhaust system.

3. This manual provides detailed installation instructions to ensure proper installation and use of iPEexhaust pipe; in case of improper use and disassembly, the company does not assume any responsibility for loss and personal injury.

4. When installing the iPEexhaust pipe, please lock according to the torque value of the manual to avoid abnormal damage to the screws and nuts.

5. If the exhaust pipe of the car is still at a high temperature, please wear insulated gloves for the exhaust pipe installation work, or install it after cooling down.

6. Before starting, be sure to wipe off the oil on the exhaust pipe to avoid burning and high temperature.

7. The iPEexhaust pipe is designed according to the original engine data. If the computer is upgraded to change the engine parameters, the exhaust pipe may generate resonance, resonance or other abnormal sound. IPE can provide a modified version of the exhaust pipe for such vehicles.

8. If you have any questions about this installation instruction or the use of the iPEexhaust pipe, please contact your local iPEpartner or contact us at

info@ipe-f1.com



# (2)Tools required for the operation process

Tool name	Tool appearance
Rust inhibitor/ lubricant	
Hexagon socket	
Hexagon wrench	
Torque wrench	Torque Wrench



#### (3)Product assembly appearance







## (4) Steps for disassembling the original exhaust and related key points

Move the vehicle to the jacking machine and lift it to a suitable position. Note: Please park the vehicle properly, and really lift the vehicle, when it is lifted, the surrounding space is clear, pay attention to the height to ensure the safety of people and vehicles! After removing the screws, place them neatly to avoid confusion during recovery.

1. remove backstage muffler middle connect ring and left and right bushes, then move in front of the car you can remove the back muffler (Figure 1, 2).



#### Figure 1





Remove the skid plate screw.
Remove the chassis support braces
Note: After removing the screws, place them neatly to avoid confusion during recovery.

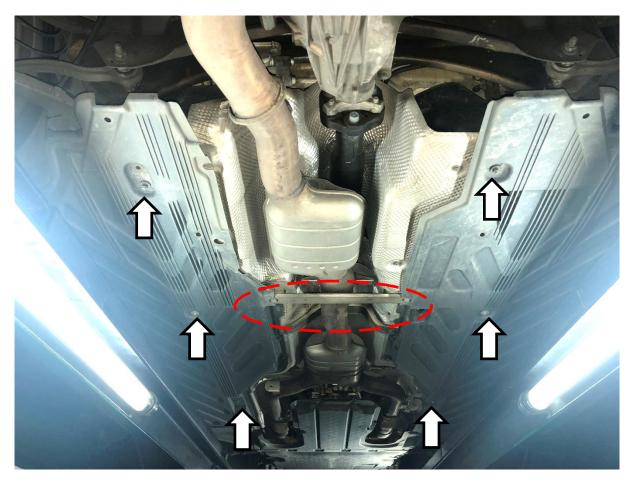


Figure 3



- 4. Relax the front pipe clamps(Figure 4)
- 5. Remove the front pipe bushes screw(Figure 5) and back bushes(Figure 6)then remove origine mid pipe.

Note: After removing the screws, place them neatly to avoid confusion during recovery.



Figure 4





Figure 5



- 6. remove top engine plate(Figure 7)
- 7. The front and rear oxygen sensor plugs(total 4) can be unplugged first, after remove cat pipe then remove the oxygen sensor.

Please use appropriate tools to remove the oxygen sensor to avoid damage to the circuit! Note: When the exhaust pipe has a residual temperature, do not use organic solvents such as lubricants or rust removers!





Figure 7



8. After confirming that the oxygenated plug is removed, remove the screw from connecting cat pipe to the Exhaust manifold header, then remove the fixing bracket screw, then remove cat pipe(Figure 8).

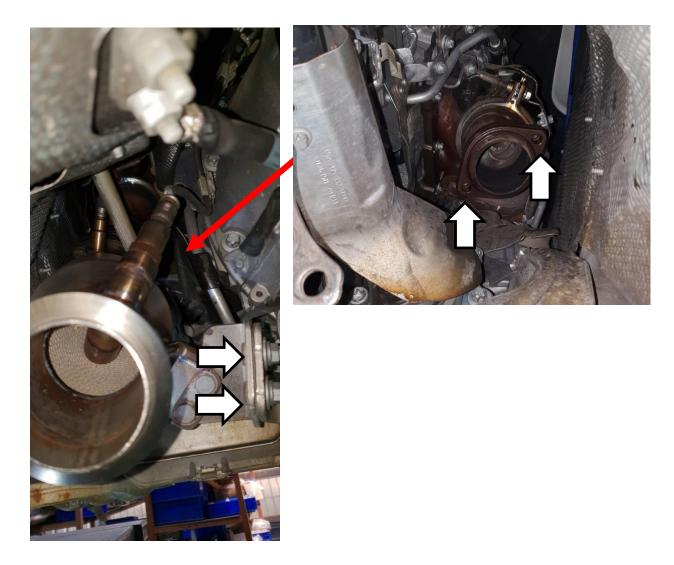


Figure 8



#### (5) Steps and related points for installing

1. first front and back oxygen sensors installed on cat pipe. 2. instal iPE cat pipe, And lock them with fixing screw (Figure  $9 \cdot 10$ ).

3. Plug the front and rear oxygen sensor plugs back (total 4). Note: the appropriate torque for the screw lock



Figure 9



Figure 10



4. Insert the front pipe into the cat pipe (Figure 11), lock the bushes screw, without screw the clamps (Figure 12, 13). Note: the appropriate torque for the screw lock



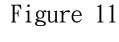








Figure 13



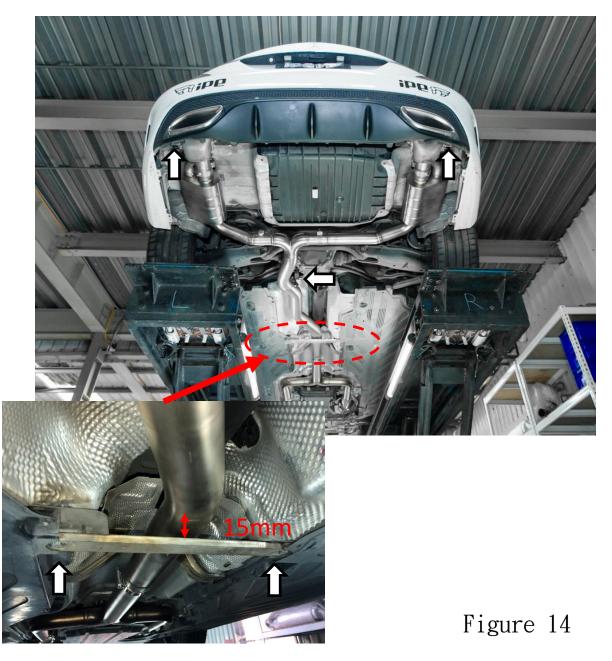
5. Install the Mid pipe to the positioning, put bushes back on car, without screw the clamps.

6. Install the muffler to the positioning, bushes seat locks back on the car.

7. Install the chassis , the distance between the pipe and the chassis is at least 15mm. (Figure 14)

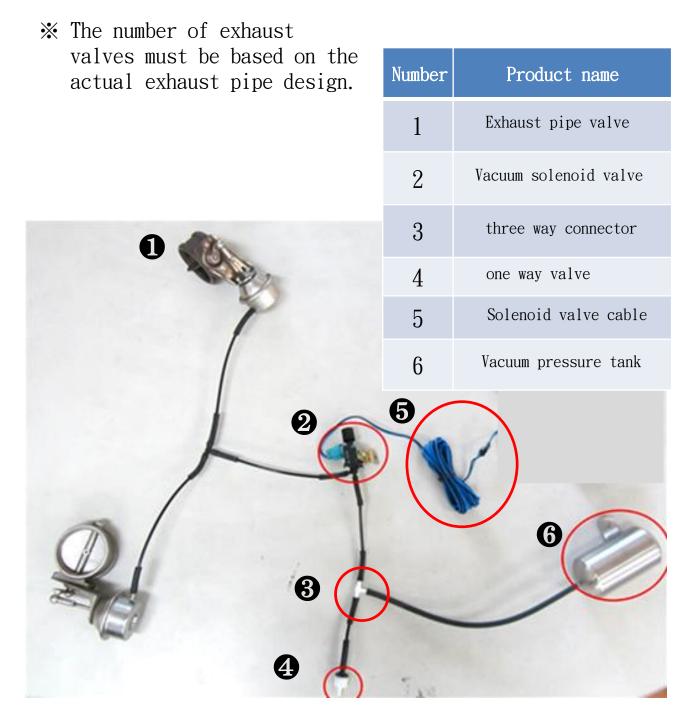
8.Conform that the gap between the exhaust pipe and the chassis is at least 15mm, Lock the clamps from front to back.

Note: the appropriate torque for the screw lock

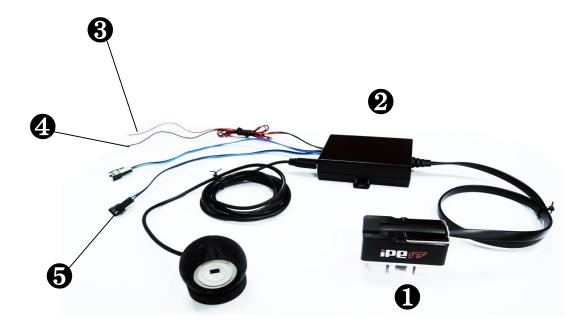




## (6)ipe exhaust and Vacuum tube • Wiring and related key points







Number	Product name	Number	Product name
1	OBD2 connector	4	Black (negative)
2	Solenoid valve controller	5	blue black(Solenoid valve)
3	Red (ACC positive)	6	



1. Install the host power cord directly under the 032 relay in the fuse box in the cab(Figure 15.16)  $\,$ 

Note: Confirm that the positive and negative poles are correct to avoid burning the circuit



Figure 15



Figure 16



- 2. Install vacuum pressure storage barrel(Figure 17)and one way valve · fixed vacuum solenoid valve(Figure 18)to the beam above the differential. (Figure 19)
- 3. Check to make sure it is correct and replace the skid plate.

Note: The connection wire and vacuum tube must be fixed to avoid damage caused by the rotation of the drive shaft

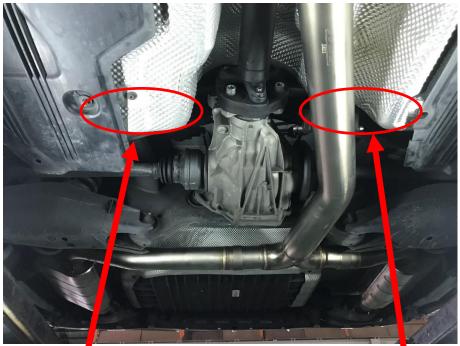
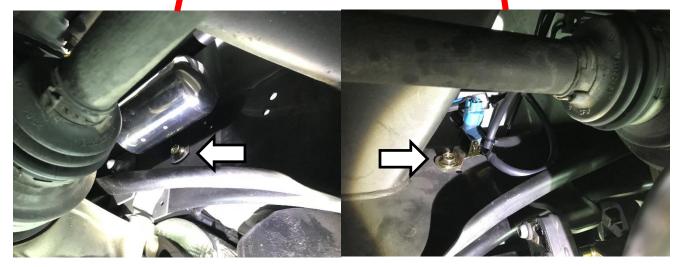


Figure 17





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3. Remove the original car vacuum tube and use the three way connector to the vacuum source (Figure21), the control line of the solenoid valve is passed through the sealing ring of the line group (Figure22), connected together to the back valve, final that replace to the engine cover.

Note: It must be confirmed that the wires and vacuum tubes are fixed to avoid damage due to friction and high temperature

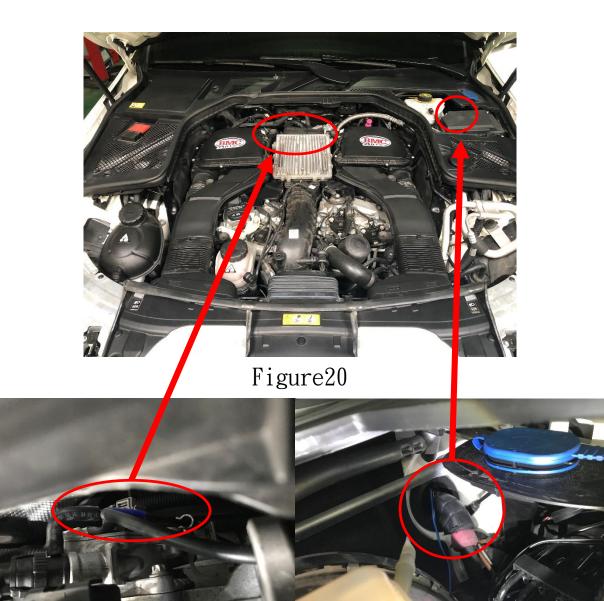


Figure22