

2014–2019 MERCEDES CLA45 AMG PERFORMANCE AIR INTAKE PARTS LIST AND INSTALLATION GUIDE



PARTS INCLUDED

- 1PC** | SILICONE TURBO INLET HOSE W/ MOLDED CNC-MACHINED PORT BLOCK
- 1PC** | HIGH-FLOW, OILED FILTER
- 1PC** | AIRBOX W/ PROTECTIVE EDGING
- 1PC** | 60–80MM WORM-GEAR CLAMP
- 1PC** | 100–120MM WORM-GEAR CLAMP
- MOUNTING HARDWARE

TOOLS NEEDED

- | | |
|----------------------------|------------------|
| LARGE FLATHEAD SCREWDRIVER | 10MM DEEP SOCKET |
| SMALL FLATHEAD SCREWDRIVER | E12 TORX |
| 3/8" DRIVE RATCHET | T20 TORX |
| 3/8" DRIVE EXTENSION | T45 TORX |
| 1/4" DRIVE RATCHET | 4MM ALLEN KEY |
| 1/4" DRIVE EXTENSION | 7MM WRENCH |
| 7MM DEEP SOCKET | 10MM WRENCH |

INSTALL TIME 1 HOUR

INSTALL DIFFICULTY 

DISCLAIMER

- Raise vehicle only on jack stands or on a vehicle lift.
- Allow vehicle to cool completely prior to attempting installation.
- Do not run the engine or drive the vehicle while overheating; serious damage can occur.
- Please dispose of any liquids properly.
- Mishimoto is not responsible for any vehicle damage or personal injury due to installation errors, misuse, or removal of Mishimoto products.
- Mishimoto suggests that a trained professional install all Mishimoto products.

CAUTION

Never work on the cooling system when it is hot. The coolant temperature in the radiator can be considerably higher than boiling, and the system may be under pressure. Opening a cooling system that is hot or under pressure can result in serious injury. Always wait until the system has cooled completely before servicing it in any way.

INSTALL PROCEDURE

- 01.** Remove the top battery cover by pulling it forward.
- 02.** Loosen and disconnect the negative terminal on the battery. Position the terminal end so it will not contact the battery post.
- 03.** Remove the airbox lid. (4x T20 Torx bolts)
- 04.** Release the air filter by turning it counterclockwise and then remove it from the vehicle.
- 05.** Loosen the worm-gear clamp connecting the intake boot to the airbox.
- 06.** Disconnect the MAP sensor from the wiring harness. Push the gray tab out of the connector to unlock it, and then remove the connector from the sensor.



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07. Release the intake air duct by prying the duct off the tabs on the airbox, and then remove the duct from the vehicle.



08. Separate the wiring harness connector on the side of the airbox. Push the gray tab out of the connector and then depress the tab to release the connector.



09. Remove the female end of this connector from the airbox. To release the connector, slide a small screwdriver between the connector and the airbox to depress the locking tab. Then slide the connector down and off the airbox.



10. Disconnect the electrical harnesses from the ECU. Each connector is secured by a lock lever. Depress the black tab that holds the lock lever, and then lift the lever to release the connector. Disconnect both harnesses, and set them out of the way.



11. Remove the airbox. Lift the airbox up a few inches and separate the intake boot from the airbox. Then lift the airbox and ECU out of the vehicle as one unit.
12. Unbolt the PCV/boost solenoid assembly from the top of your intake boot, and then separate the assembly from the intake boot. (2x E12 Torx bolts)



13. Remove the bracket that held the PCV/boost solenoid assembly you just removed. Remove the bolt that secures it, and then wiggle the bracket to aid in removal. (1x T45 Torx bolt)

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14. Loosen the worm-gear clamp that connects the intake boot to the turbo, and then remove the intake boot.
15. Remove the mounting bracket from your stock airbox. (4x T20 Torx bolts)
16. Release the two clips that secure the ECU to the airbox, and then remove the ECU. Set the ECU aside in a safe place.



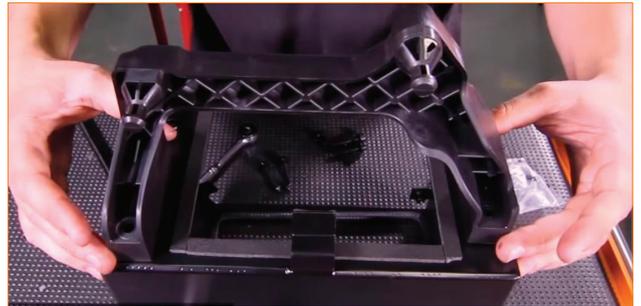
17. Remove the MAP sensor adaptor from the airbox outlet. (3x T20 Torx bolts)



18. Release the MAP sensor from the adaptor by turning it counterclockwise, and then remove the sensor.



19. Install the stock airbox mounting bracket onto the Mishimoto airbox. Orient the bracket so the dowels point downward, in the same direction as the dowel on the airbox. The 7mm bolts install from inside the box, through the smaller holes. The 10mm bolts install from outside the box, through the larger holes. Orient the bracket so it is flush with the side of the box before fully tightening the bolts. (2x 7mm nuts and bolts, 2x 10mm nuts and bolts)



20. Install the ECU onto the airbox. Position the ECU so the cooling fins are inside the airbox and the posts on the ECU fit inside the holes of the airbox. Then install the provided bracket and secure it with two 10mm bolts. (2x 10mm bolts)



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21. Slip two worm-gear clamps over the Mishimoto intake boot and install it over the turbocharger inlet. (2x worm-gear clamps)
22. Install the PCV/boost solenoid assembly into the CNC-machined adapter on the Mishimoto intake boot and secure it with the original E12 Torx bolts. Then tighten the intake boot to the turbocharger inlet. (2x E12 Torx bolts)
23. Install the MAP/pressure sensor to the Mishimoto intake pipe. Insert the sensor so the connector faces the short end of the pipe, then give it a quarter turn clockwise to seat it in the pipe.
24. Insert the long end of the intake pipe into the airbox. Install the airbox in the vehicle, making sure that the three posts engage the mounting grommets. Slip the intake pipe into the intake boot and tighten the clamp to secure them.
25. Apply the provided foam tape to the intake air duct where it will meet the front bumper. Then install the intake air duct between the front bumper and the airbox.



26. Install the air filter to the intake pipe and secure it with the worm-gear clamp.
27. Connect the MAP sensor electrical harness and push the gray tab in to lock the connector.

28. Install the airbox lid and secure it with the provided bolts and washers. (3x 4mm Allen bolts and washers)
29. Reconnect the wiring harness connector next to the airbox. If desired, secure this connector to the main harness with a zip tie.
30. Plug in the two ECU harnesses and lock down the levers.
31. Install the negative terminal on the battery and tighten the adjustment nut.
32. Install your battery cover and slide it back toward the cabin to lock it in.
33. If the hood latch cable became disconnected from the battery cover, push it back into the clips.

Congrats! You just finished installing the 2014–2019 Mercedes CLA45 AMG Performance Air Intake.

