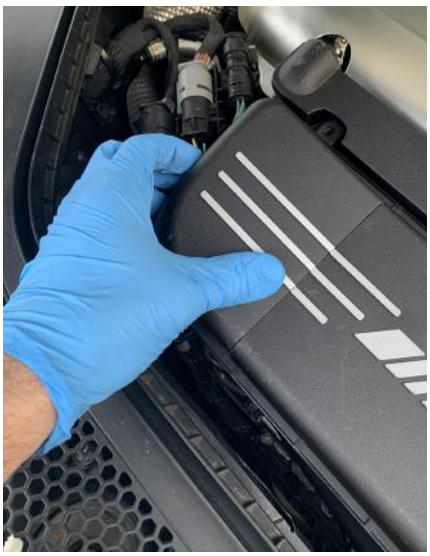
ModalWorks M177 Polymer Intake Installation

Nomenclature: The passenger side and driver side are based on LHD vehicles (US models)

Tools Required: Flat head screwdriver, large pliers, 10mm socket wrench

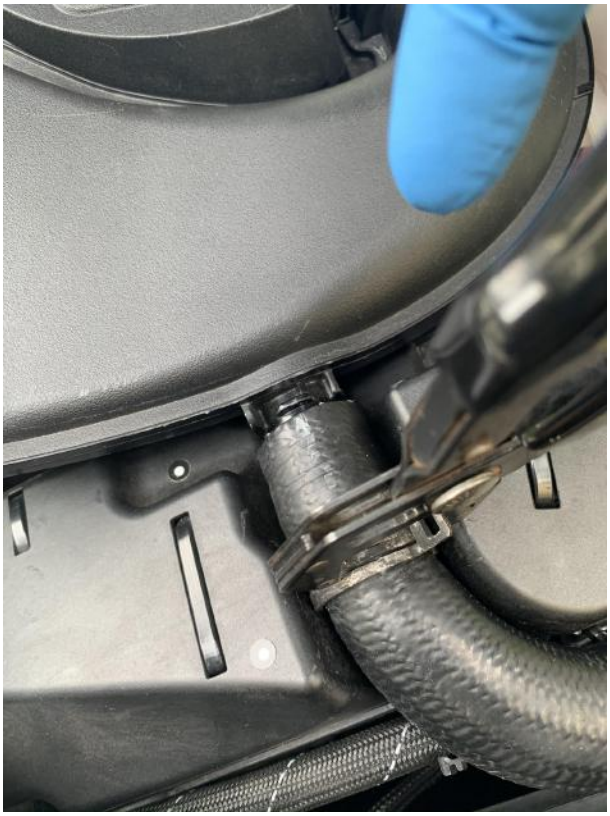
1. Pop hood and ensure OEM airboxes are cool to the touch. Begin by removing the covers at the rear of the airbox.




2. Remove the OEM air filter quality sensors by applying pressure and twisting with a quarter turn. The wire loom may be too tight to twist with the cable connected completely. If so, unclip the connector first.

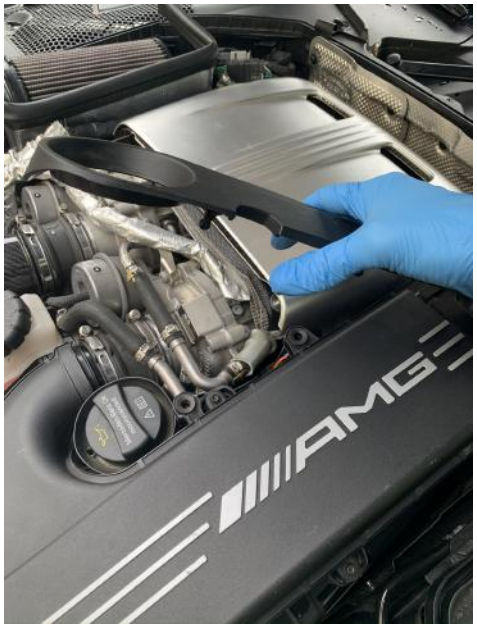

3. Remove both sensors and set them aside to be placed into the new intake.

4. Using a pair of pliers, pinch the clamp holding the hose at the front of the airbox and slide it off the air tube nipple. Repeat on both sides.



5. Loosen turbo clamp connectors on both sides.

6. Pull up on the passenger side airbox to release them from the ball studs and remove the entire airbox assembly. Repeat for the driver's side.



7. If you opted for the OEM-sized turbo tube, skip to step 10. If you purchased the 82mm tube option, you need to exchange the OEM turbo couplers for the larger units provided in the kit.

8. Use se a small flathead screwdriver or pick and work around the recirculation ports to loosen the glue. The adhesive is very tough and it is easy to tear the OEM couplers, so take your time and patiently break the seal between the two parts.


9. After it is loose, separate the OEM couplers and replace them with the new larger couplers. If your vehicle has 3 ports on the recirculation body, remove the plug that comes pre-installed on the upgraded coupler.


10. Install air filters on both polymer intake tubes. Tighten the worm clamps with a flat-head screwdriver, do not over-tighten, only moderate pressure on the tube is required.

11. Directly install the tube/filter to the turbo couplers.

12. Rotate the tube/filter assembly downwards so the tube rests on the underlying plastic above the intercoolers. Hand-tighten the worm clamp on the silicone coupler. Do not over-tighten, you only need the tubes to be snug.

13. Install the sensor harness extender to the OEM wiring harness and plug in the sensor to the other side. Make sure the connections are fully seated and click into place.

14. Install the sensor into the intake tube and ¼ turn it to secure it in place

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Optional Steps for better fitment on the C63 (GLC63 not required)

To improve hood closure and overall performance there are some additional steps that create more clearance between the tubes/filters and the surrounding parts. Not required on the GLC63 due to engine bay differences.

1. Trim the felt liner in the engine. When the hood is closed the filter gets close to the liner and will partially obstruct flow. Do this step in order to get the most possible airflow.
    a. Remove the liner with pliers/flathead screwdriver and work the clips out from the hood, below is an image of the underside of the clip

    b. Once removed, trim the liner with large scissors or shears such that only the silver reflective portion remains.

    c. Install the liner back on the hood by pressing in the retaining clips