



INSTALLATION GUIDE

CTS Turbo Mercedes-Benz AMG E63S M177 Intake System
CTS-IT-952



WHAT IS INCLUDED

1. CTS High-Flow air filters
2. CTS Airboxes
3. CTS Intake pipes
4. Installation Hardware



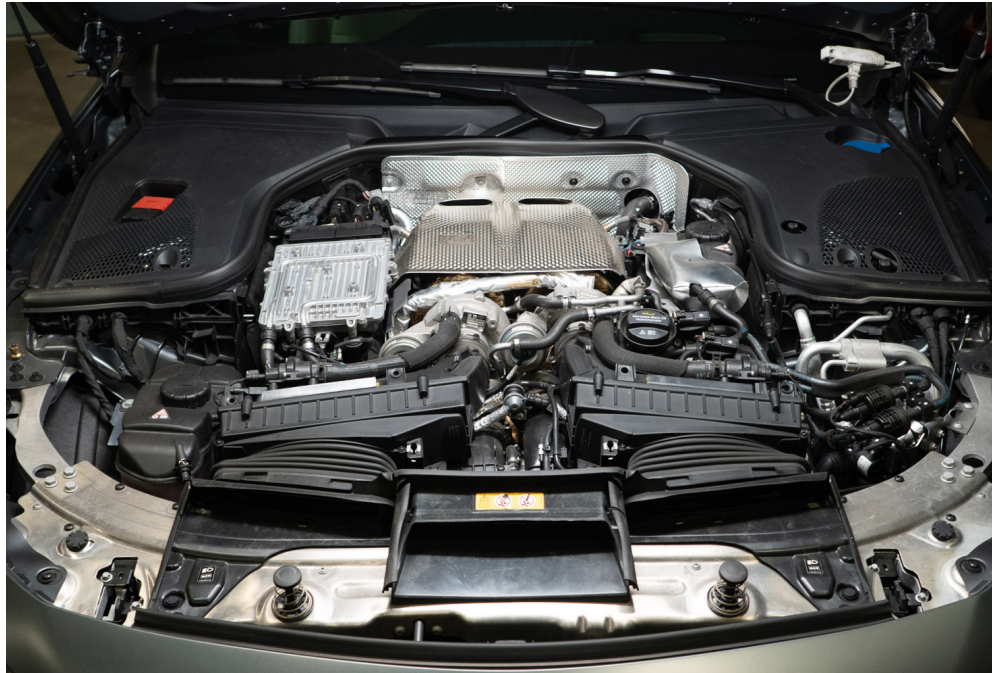
NOTES

Always make sure the car is safe to work on. Do not work on a hot motor.

NOTE: BEFORE YOU REMOVE ANY FACTORY PARTS FOR THIS INSTALLATION, KEEP THE KEY 30FT AWAY FROM THE VEHICLE AND WAIT AT LEAST 20 MINUTES TO ALLOW THE ECU TO GO INTO "SLEEP" MODE. DISCONNECT THE NEGATIVE BATTERY TERMINAL BEFORE INSTALLATION. DO NOT RETURN THE KEY TO THE VEHICLE UNTIL THE INSTALLATION IS COMPLETED AND BATTERY IS RECONNECTED. TAKING THESE STEPS WILL PREVENT THE "CHECK ENGINE LIGHT" FROM COMING ON DUE TO SENSORS BEING UNPLUGGED TOO SOON.

STEP 1

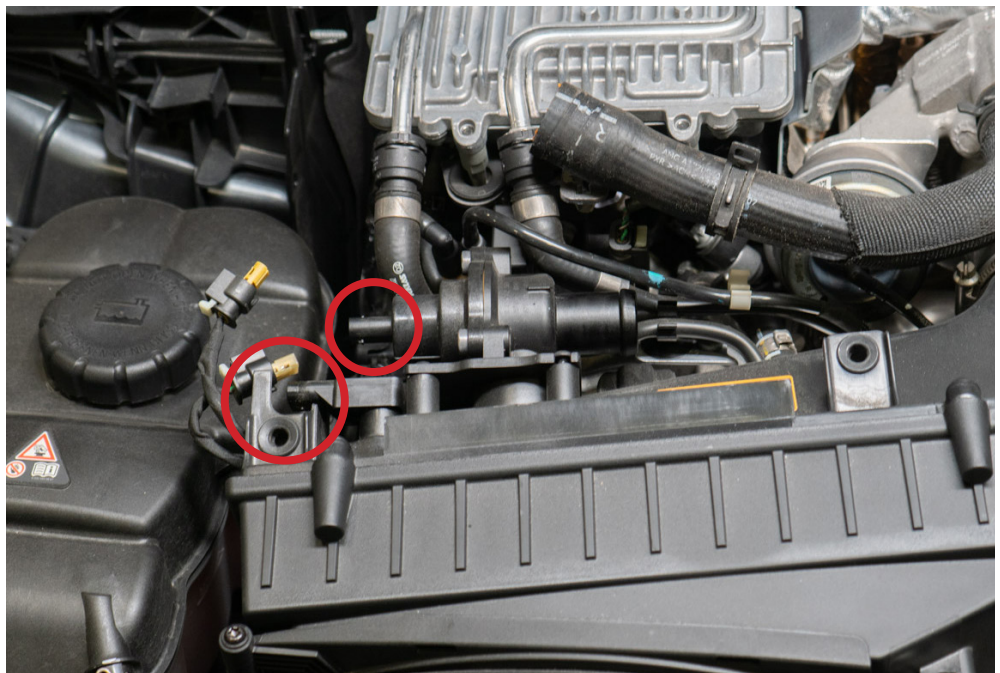
Remove the factory engine cover by gently pulling up. Check to make sure no rubber grommets remain attached to the engine cover.



STEP 2

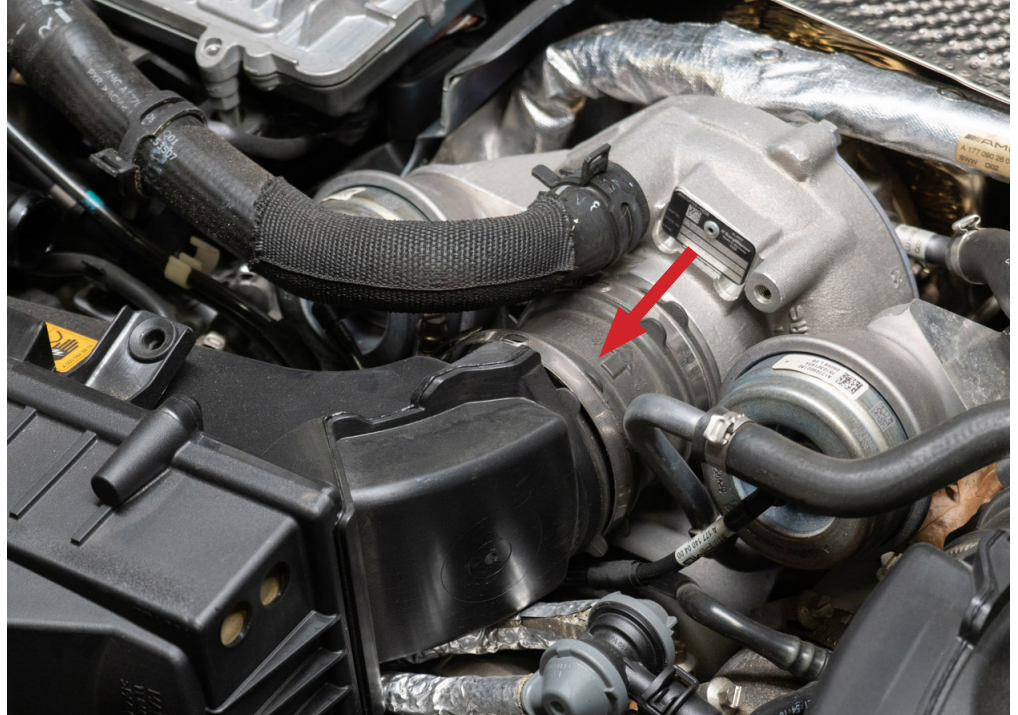
Remove the electrical connectors from the diverter valve and air sensor, as indicated (both sides).

Disconnect the diverter valve hose.



STEP 3

Loosen the clamp indicated by the arrow.

**STEP 4**

Lift and remove the factory air box.



STEP 5

Repeat for the other side.



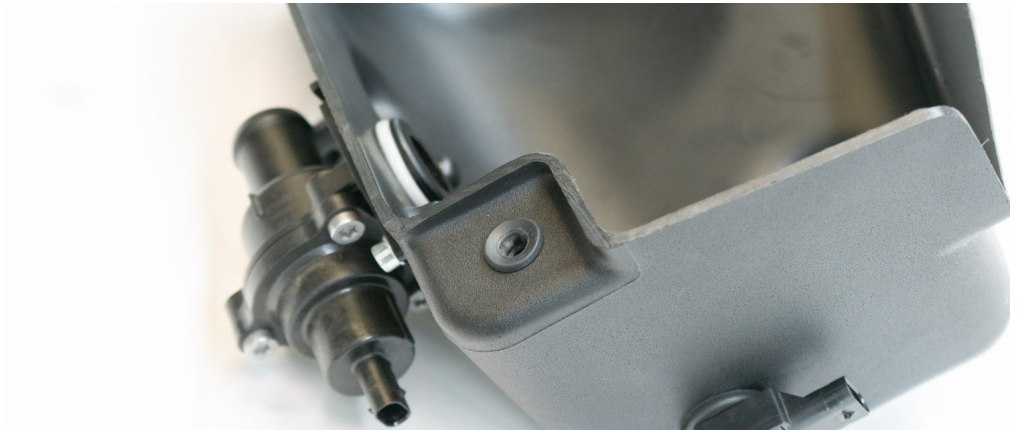
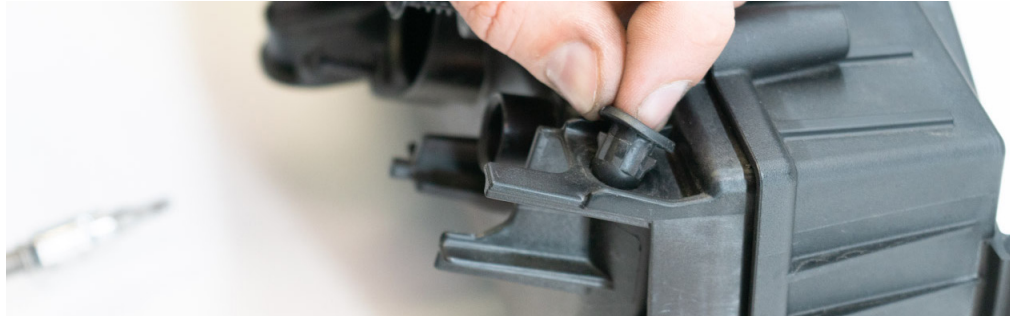
STEP 6

Transfer the sensors and diverter valves to the CTS airboxes. Install supplied grommets into the bottom mounting holes.



STEP 7

Transfer the two factory grommets from the factory airboxes to the CTS airboxes. These are used to install the engine cover.



STEP 8

Remove the mounting post.



STEP 9

Install the CTS airboxes onto 1 factory mounting stud, and secure the other with provided bolts into the threaded hole.



STEP 10

The two intake pipes are different. The longer one is for the passenger side of the vehicle. Ensure the logos are visible on the intake pipes after the installation (not shown).



STEP 11

Wipe off any oil residue on the turbocharger coupler.

Install the intake pipe and air filter. Leave the clamp on the filter loose for now.



STEP 12

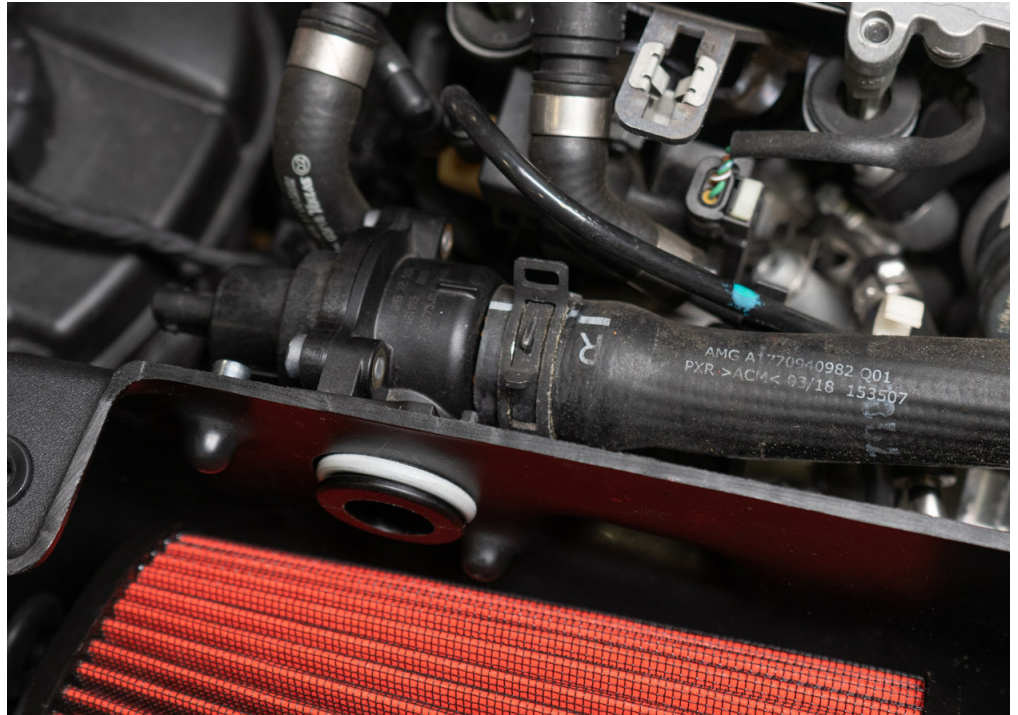
Ensure to tighten the clamp at the turbo inlet, do not over-tighten or it will damage the inlet pipe.

Tighten the air filter clamp last. Do not over-tighten or it will damage the inlet pipe.

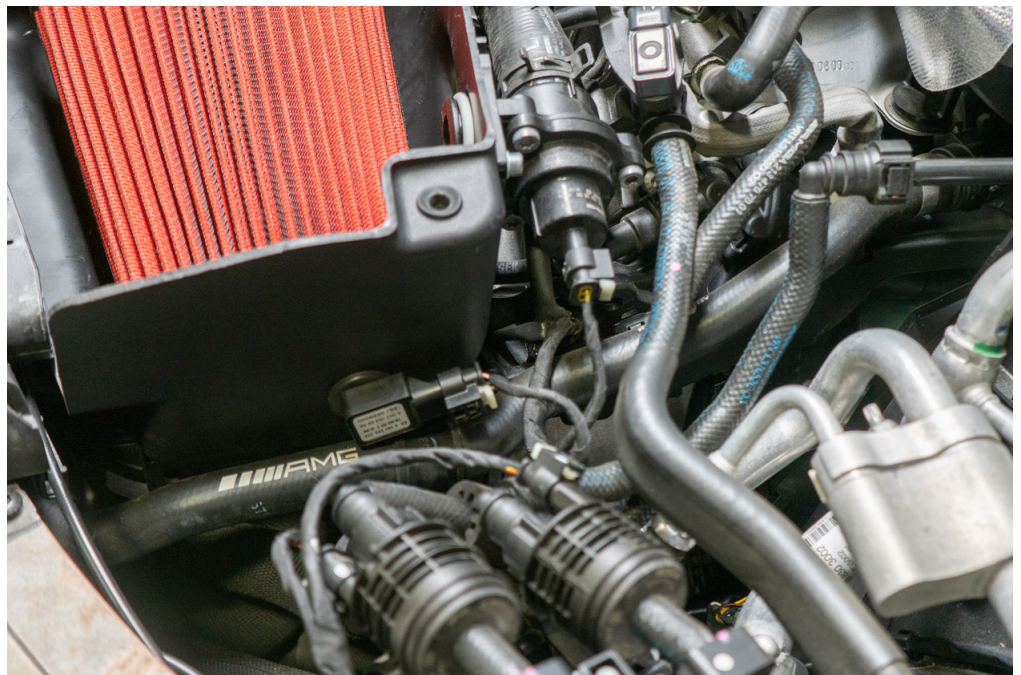


STEP 13

Reconnect the diverter valve hose.

**STEP 14**

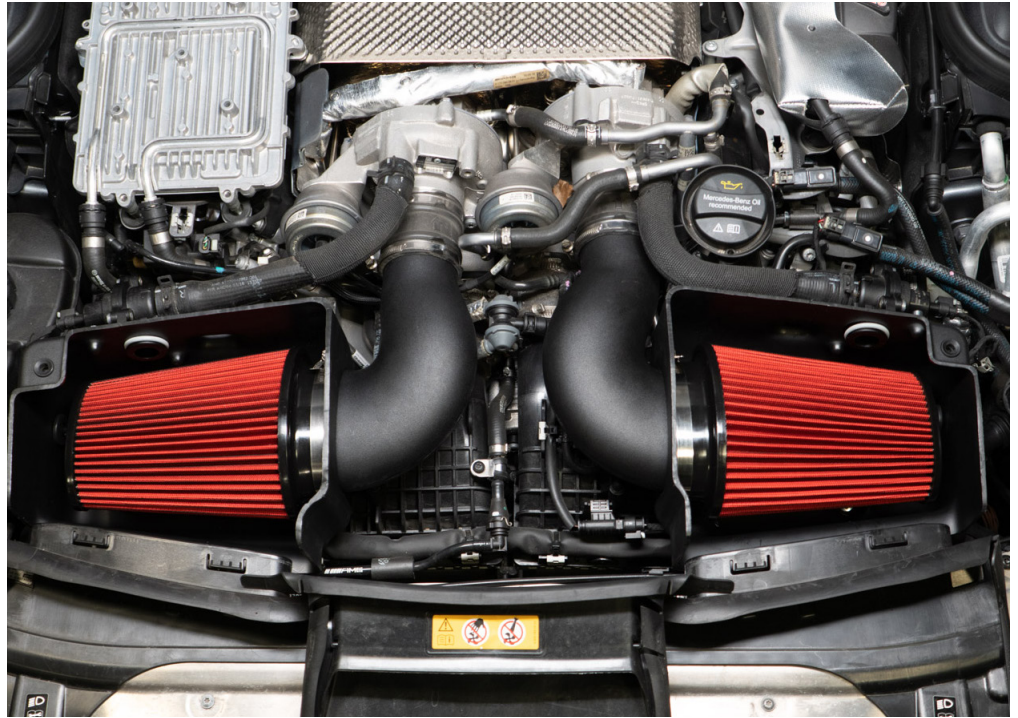
Reconnect the electrical connectors to diverter valves and air sensors (both sides).



STEP 15

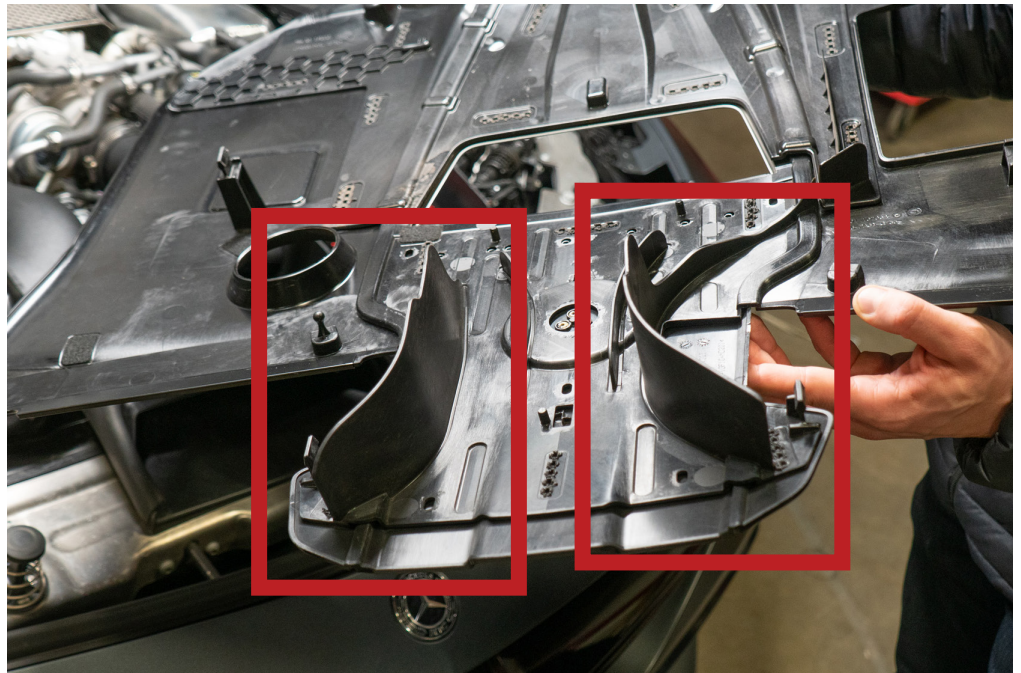
Check your connections on both sides and decide whether you want to re-install the engine cover.

You can use the intake with or without the engine cover.



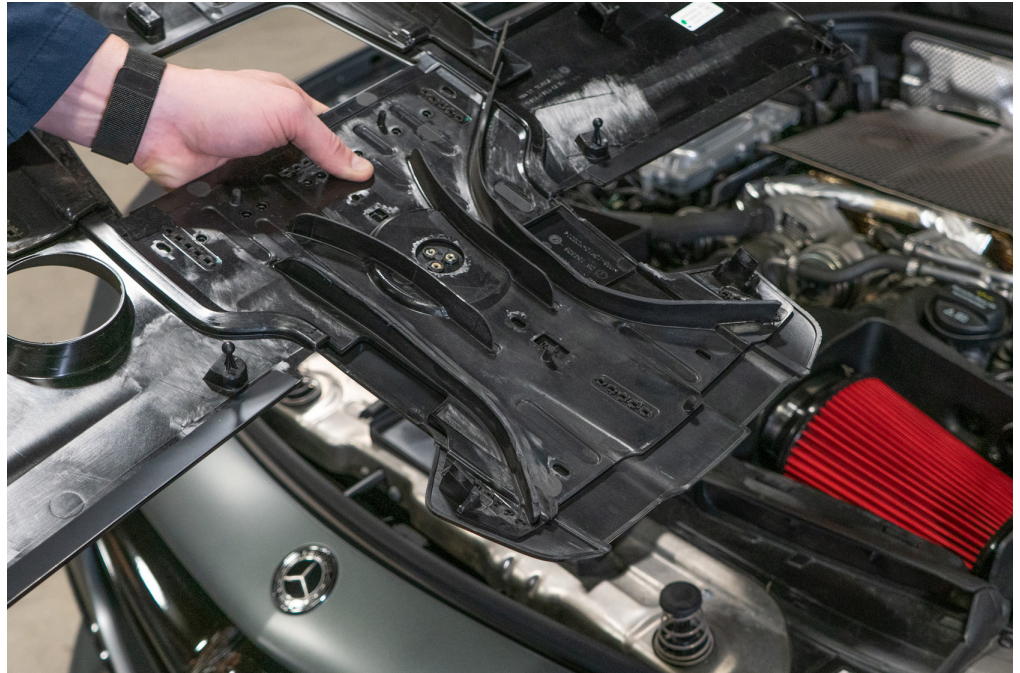
STEP 16

To install the engine cover, some trimming of the plastic is required. You can use a hacksaw blade or a die grinder to remove the material, as shown in the photo. Test-fit the engine cover and repeat the trimming as necessary.



STEP 16 CONT.

To install the engine cover, some trimming of the plastic is required. You can use a hacksaw blade or a die grinder to remove the material, as shown in the photo. Test-fit the engine cover and repeat the trimming as necessary.



Re-install the engine cover and you are done!

