



INSTALLATION GUIDE

CTS TURBO CHARGE PIPE UPGRADE KIT FOR F-SERIES AND
G-SERIES BMW B46/B48 2.0T



WHAT IS INCLUDED

1. CTS Charge Pipe
2. Silicone
3. Hardware



NOTES

Vehicle used in this guide is a 2019 BMW X3. Other cars will follow the same steps.

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

STEP 1

Remove the engine cover



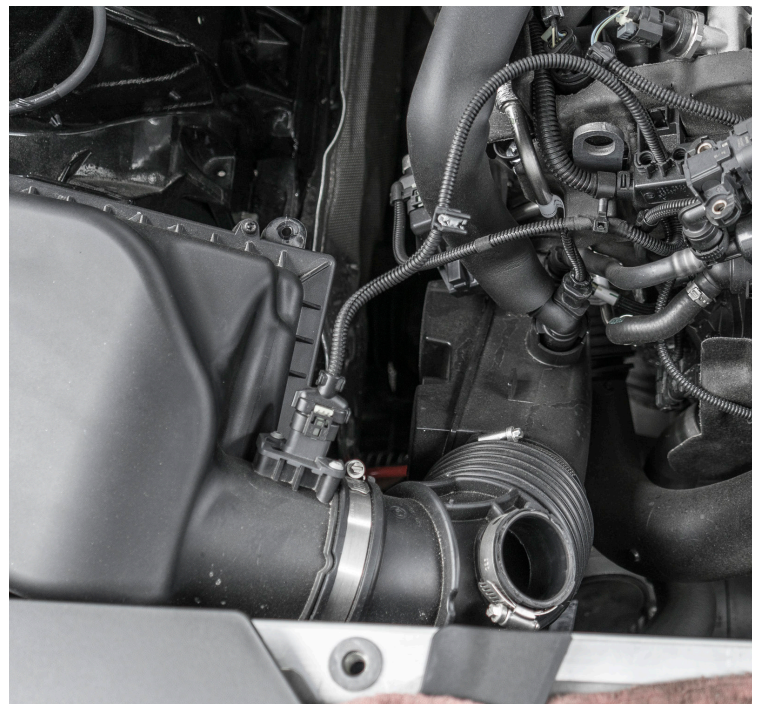
STEP 2

Remove the strut brace on the passenger side



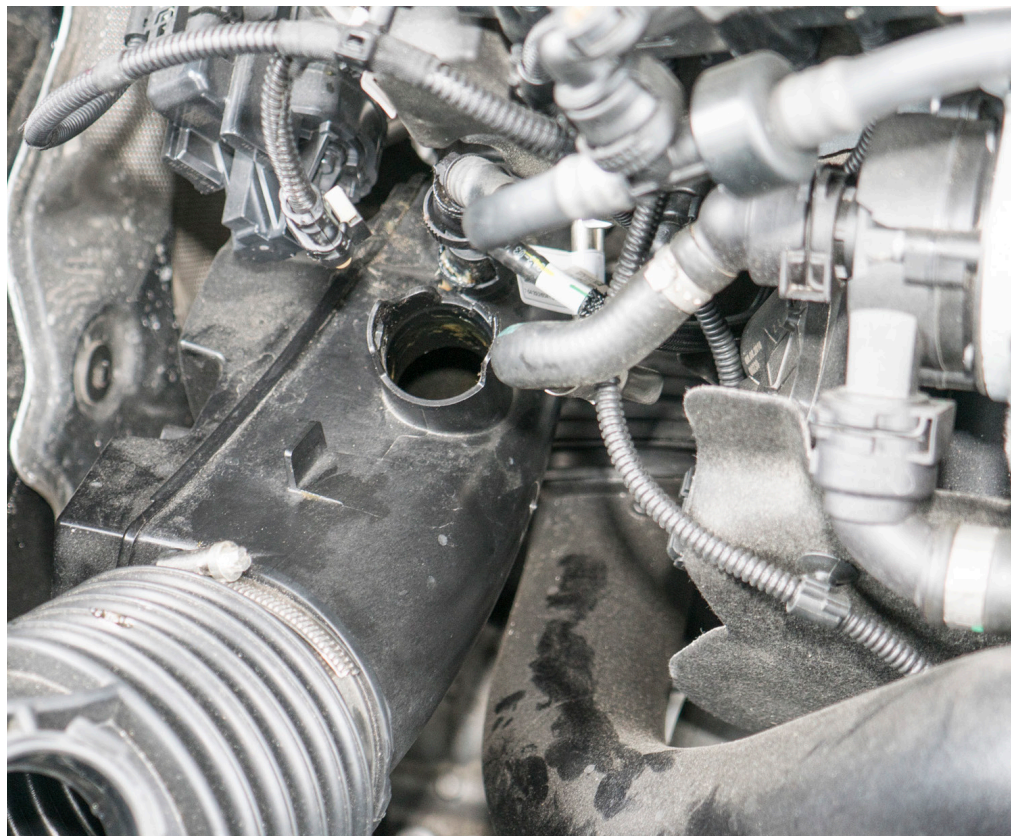
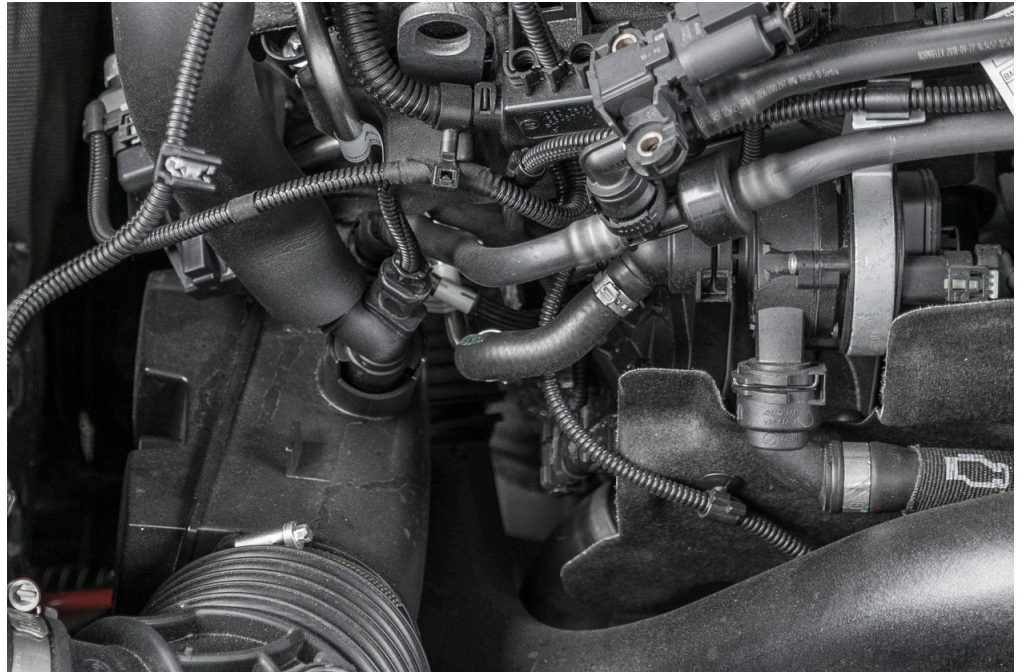
STEP 3

Remove the intake resonator.



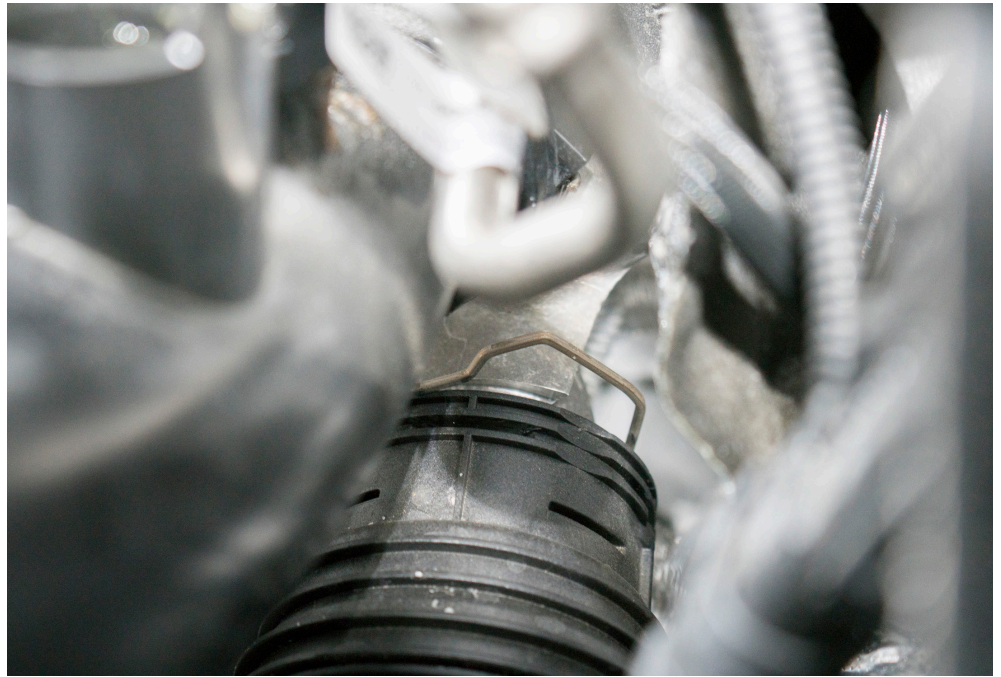
STEP 4

We remove the PCV line and vacuum line to allow more room to reach the retaining clip.



STEP 5

Release the retaining clip from the lower part of the charge pipe.

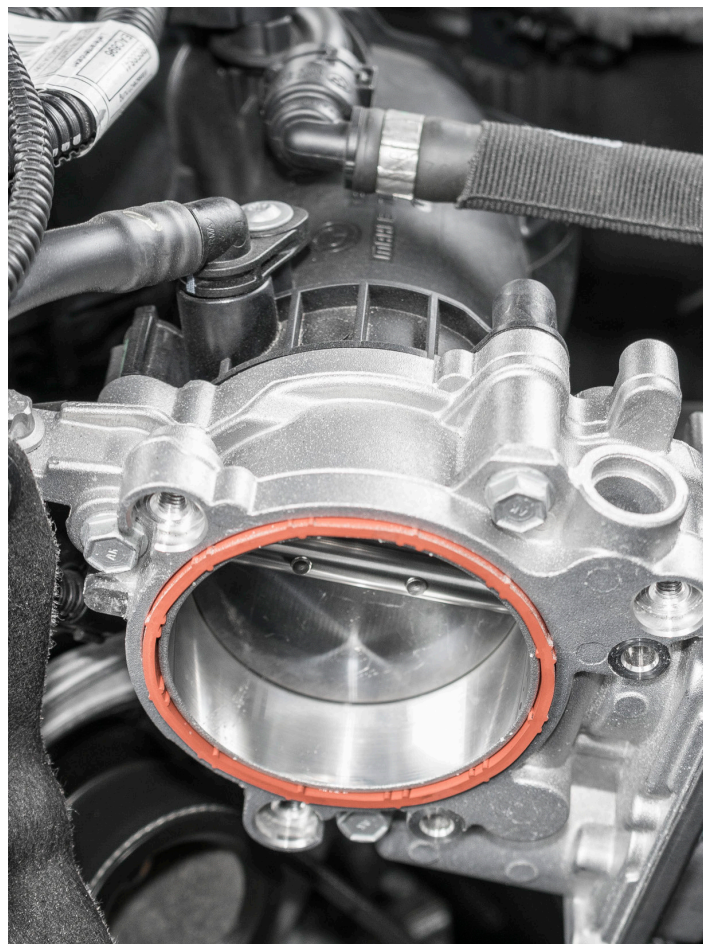
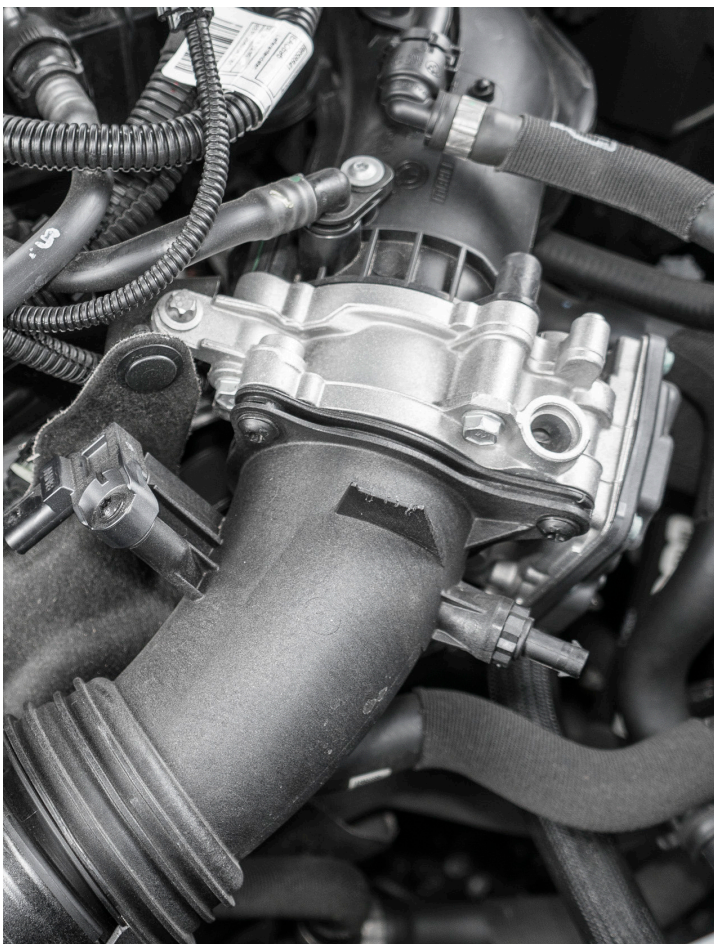
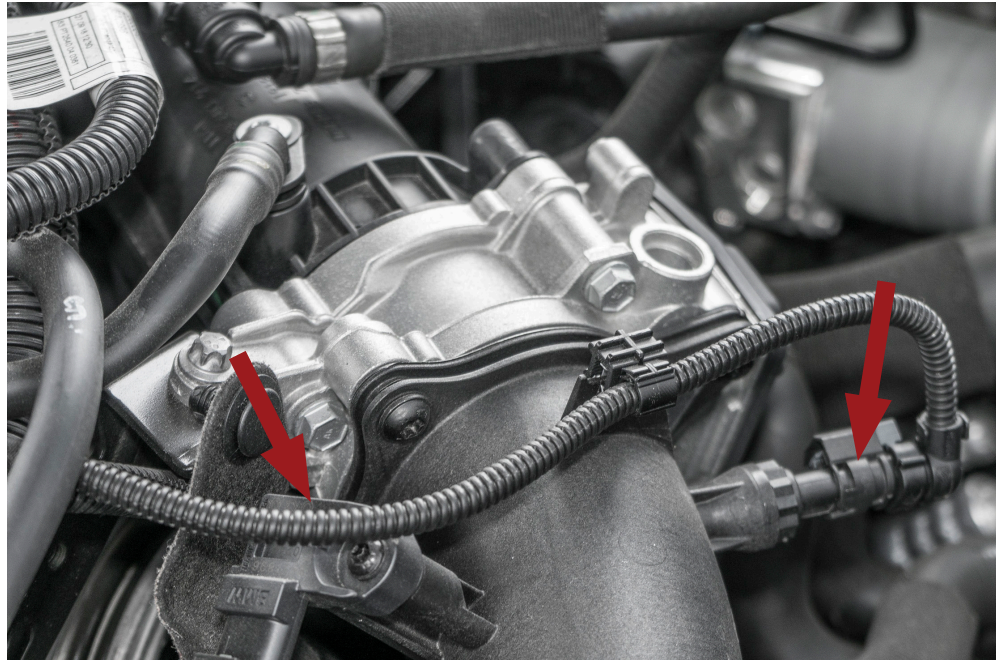


STEP 6

Remove MAP and air temperature electrical connectors.

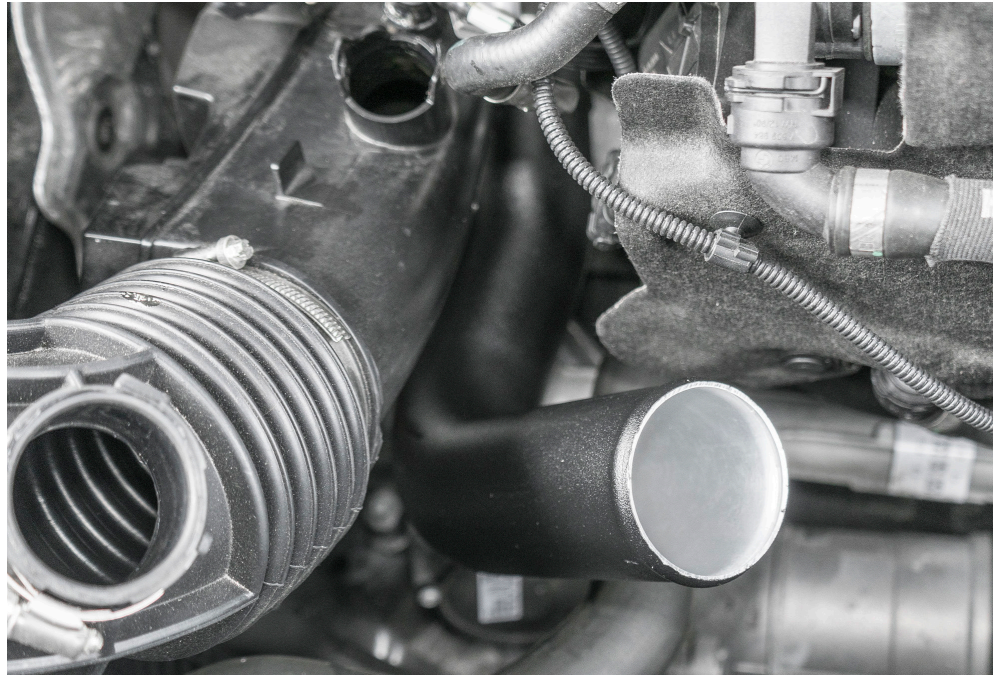
Then remove the 3 torx bolts holding the charge pipe to throttle body.

You can no remove the OEM charge pipe.



STEP 7

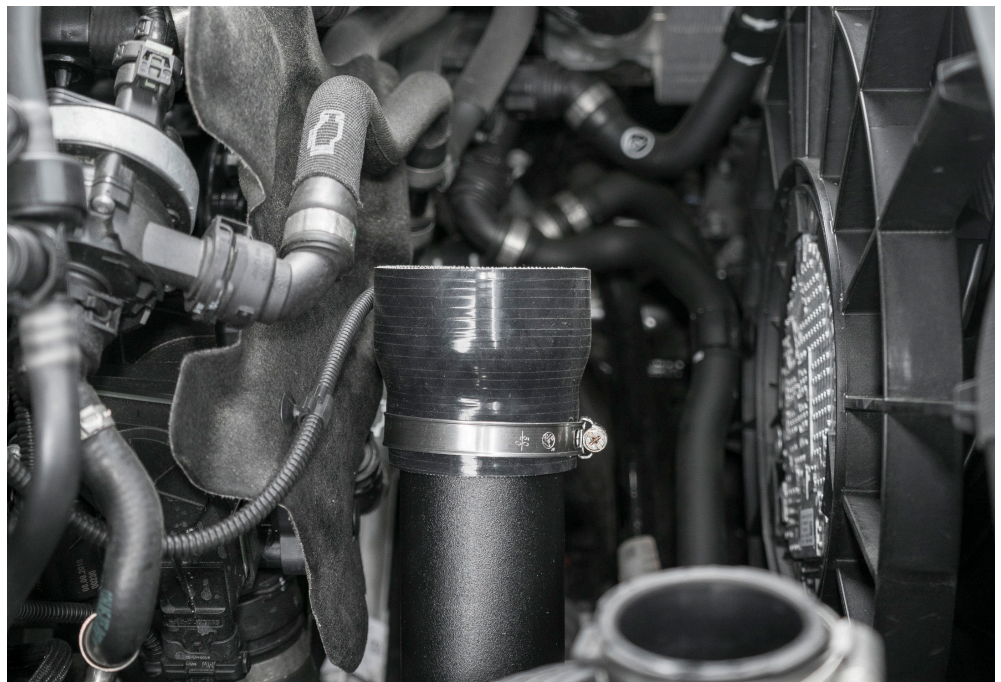
With the provided retaining clip install the lower portion of the charge pipe.



STEP 8

Install the silicone coupler and clamp to the lower charge pipe.

It does not have to be fully tightened just a snug fit for now.



STEP 9

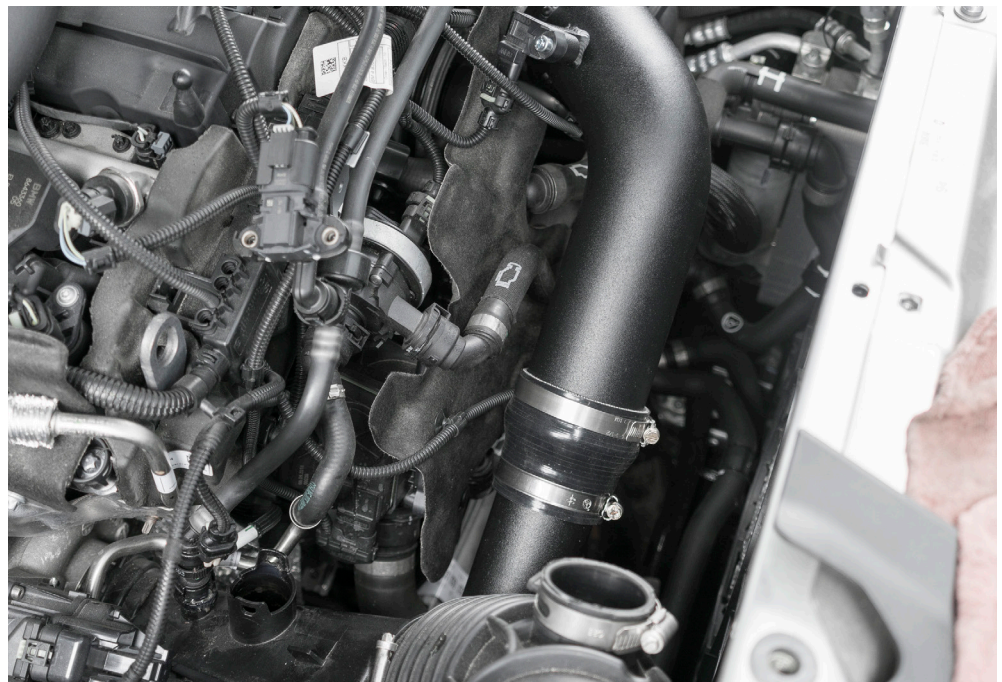
Transfer the OEM sensors to the CTS charge pipe.



STEP 10

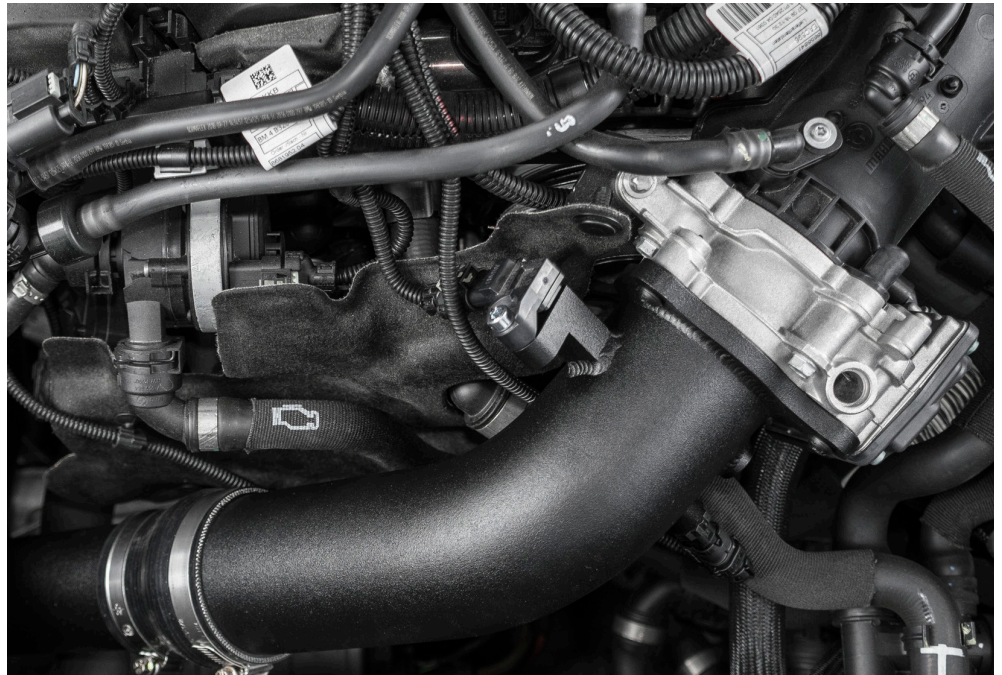
Install the upper charge pipe. Make sure to reinstall the 3 torx bolts connecting the charge pipe to the throttle body.

You can now tighten the clamps fully on the silicone.



STEP 11

Reconnect the electrical connectors.



STEP 12

Reinstall the intake resonator, PCV, vacuum lines and engine cover and you are done!

