



INSTALLATION GUIDE

F54/55/56 MINI COOPER S
CTS-F56-DF



20630 Mufford Crescent, Unit #309
Langley, British Columbia V2Y 2V9

www.CTSTURBO.com

WHAT IS INCLUDED

1. CTS intercooler
2. Installation Hardware

NOTES

Vehicle used in this guide is a 2019 MINI COOPER S. Always make sure the car is safe to work on. Do not work on a hot motor. We do not accept any liability for incorrect installation or damage during the install.

STEP 1

There are 14x8mm screws that need to be removed.

Remove the under tray.



STEP 2

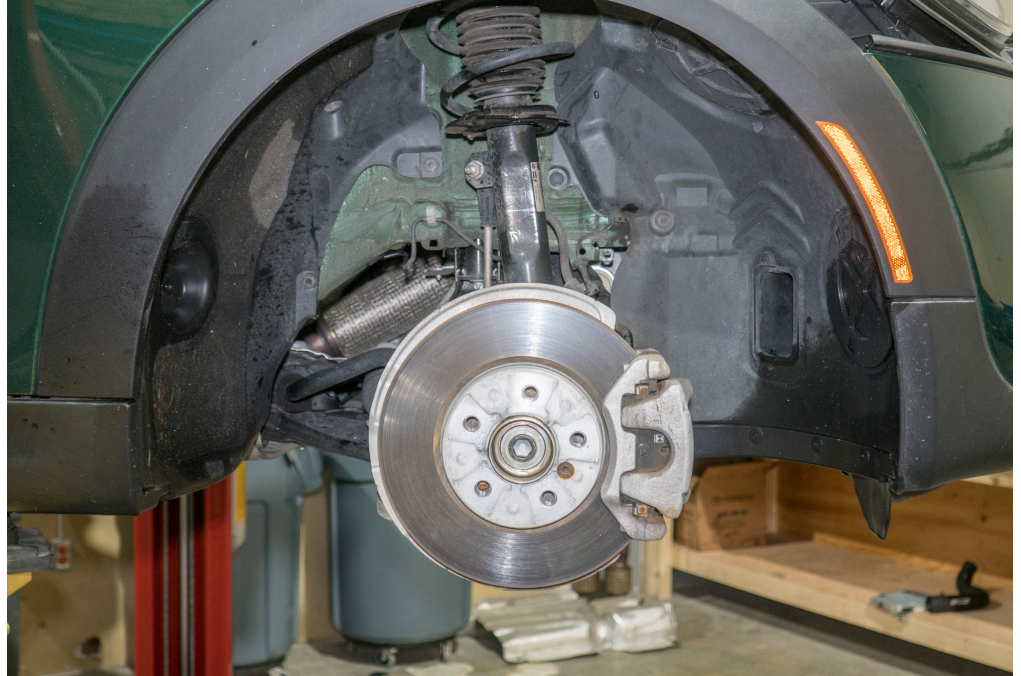
Remove the 2 8mm screws on each wheel.



STEP 3

If possible remove the front wheel to create some space.

This can be done without wheel removal.



STEP 4

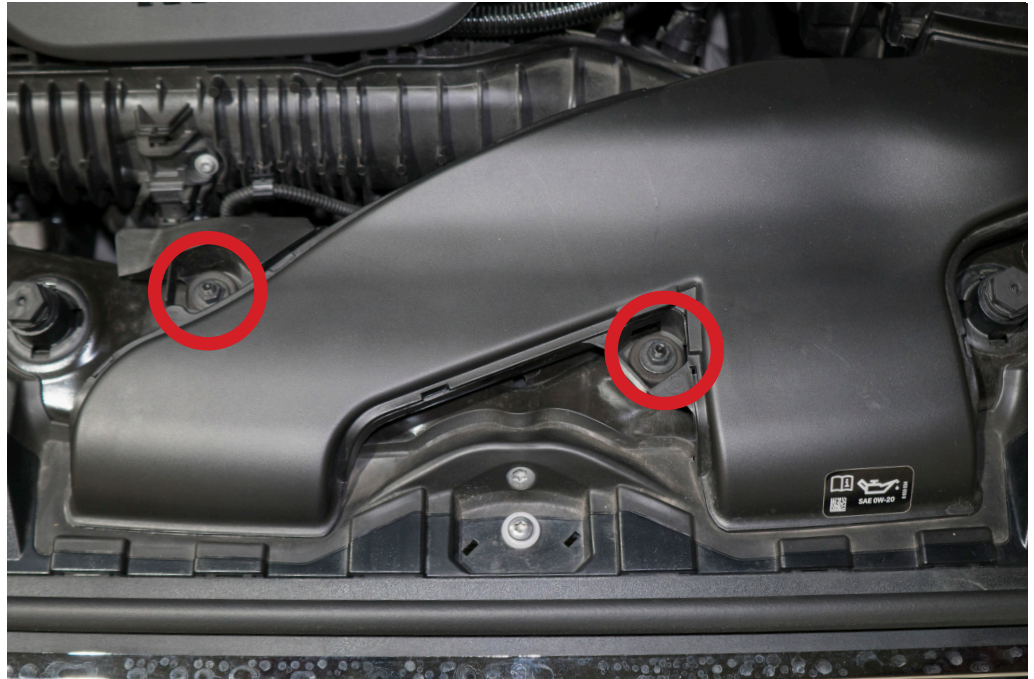
Remove the one 8mm screw on each wheel well.

Rotate the fog light panel to access wiring and unclip on both sides.



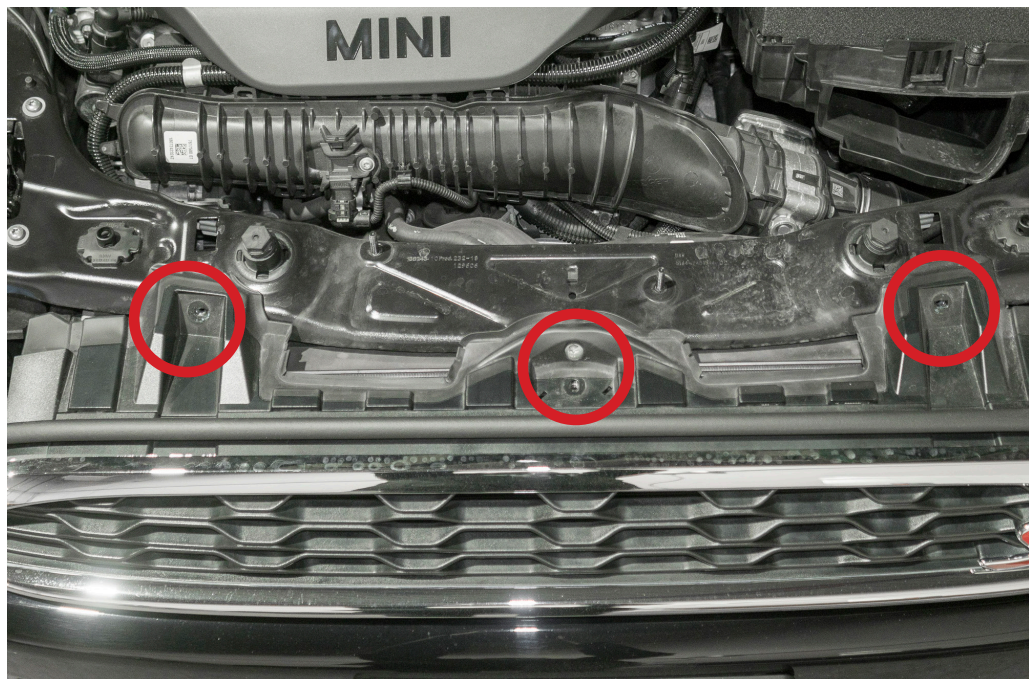
STEP 5

Using 10mm socket remove the 2 nuts holding the intake scoop.



STEP 6

Remove the three T30 bolts that hold the top of the bumper.

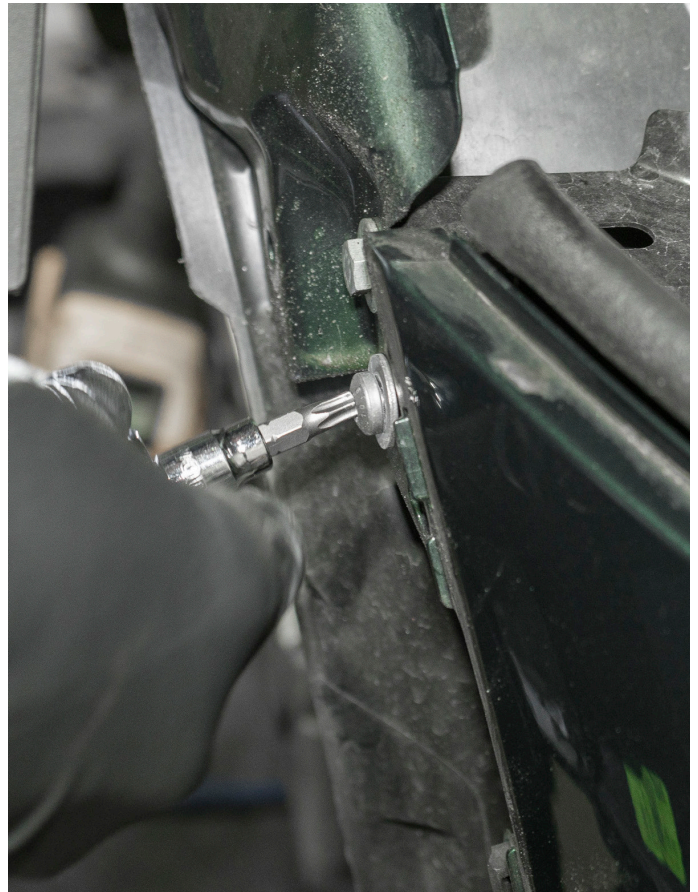


STEP 7

We need to remove part of the plastic trim to remove T30 bolt and disconnect the electrical connector.

Repeat for the other side of the car.

(when removing trim be careful not to pull to hard.)



STEP 8

Unclip electrical connectors
for fog lights



STEP 9

Remove the T30 bolts either
side of the bumper.



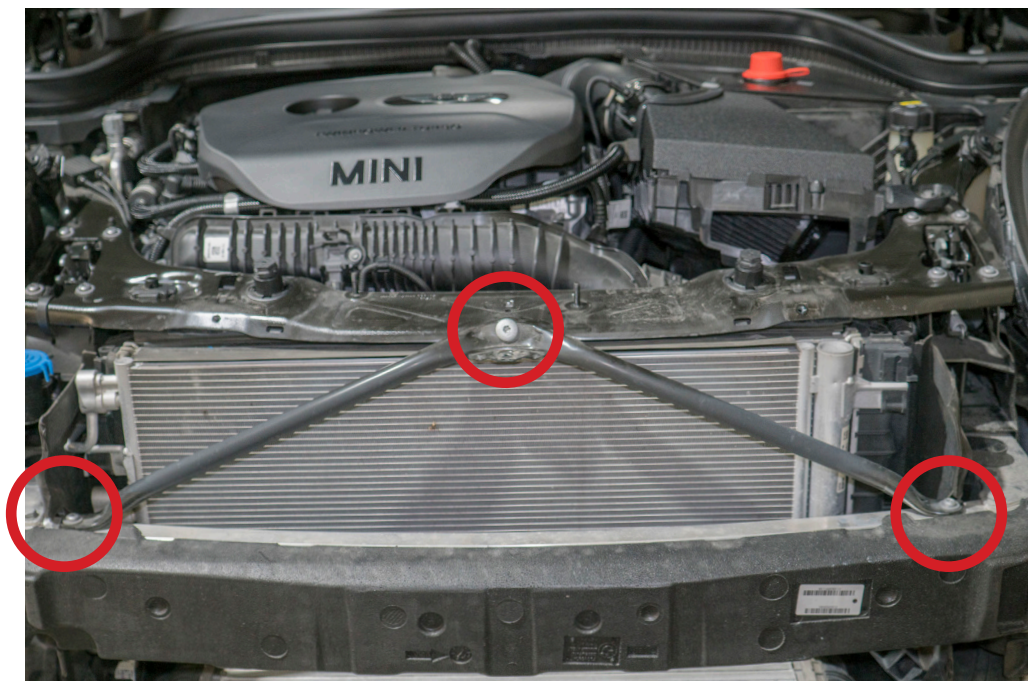
STEP 10

Remove the bumper.



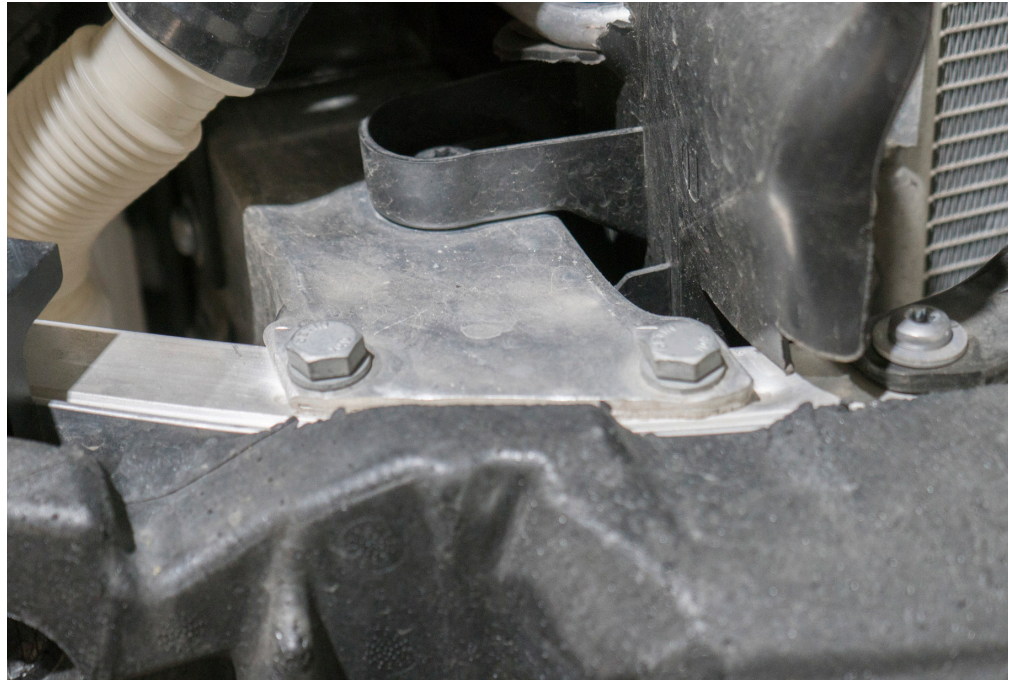
STEP 11

Remove the three T30 bolts and remove the brace.



STEP 12

Remove the four 13mm bolts to remove the crash bar.



STEP 14

Remove the two T30 Torx screws to remove the air guide, repeat on the other side.



STEP 15

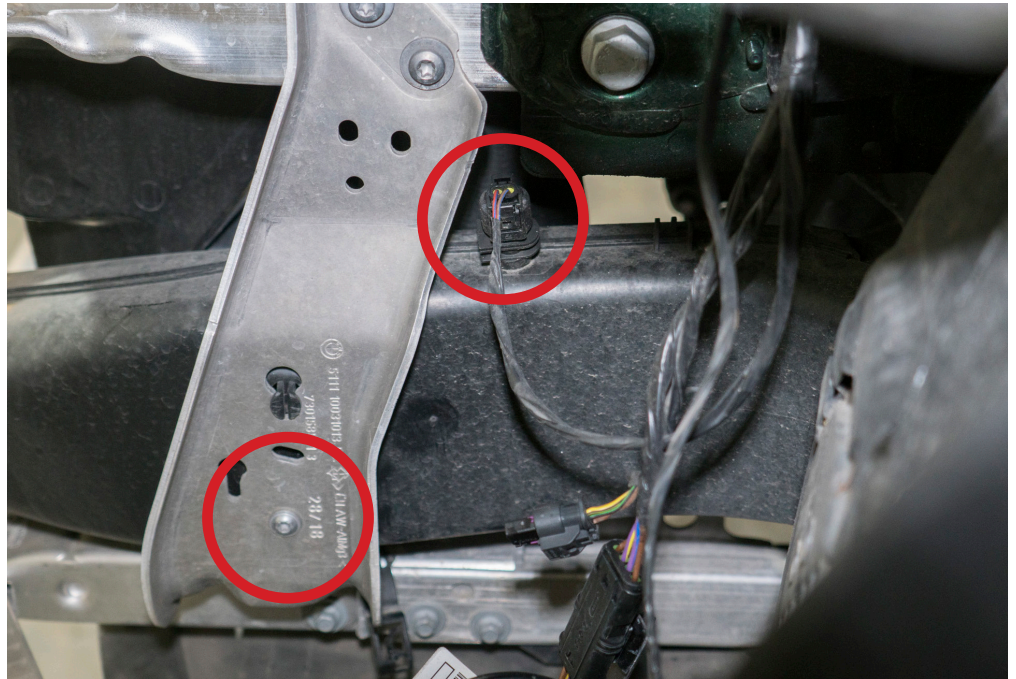
There are two plastic clips to remove. Use a flat head screw driver to lift the clips.



STEP 16

Disconnect the air temperature sensor.

Remove T27 torx screw.



STEP 17

In order to remove the other air duct we need to move the washer fluid reservoir.

Remove the the two T30 torx.



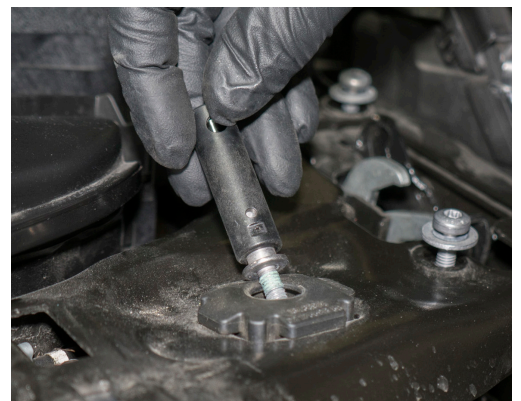
STEP 18

Loosen the four T30 Torx bolts for each hood/bonnet catch.



STEP 19

Remove both radiator pins.
You need to use a T30 torx.



STEP 19

Remove the lower bar with 13mm socket.

This is to free up space during removal and install.



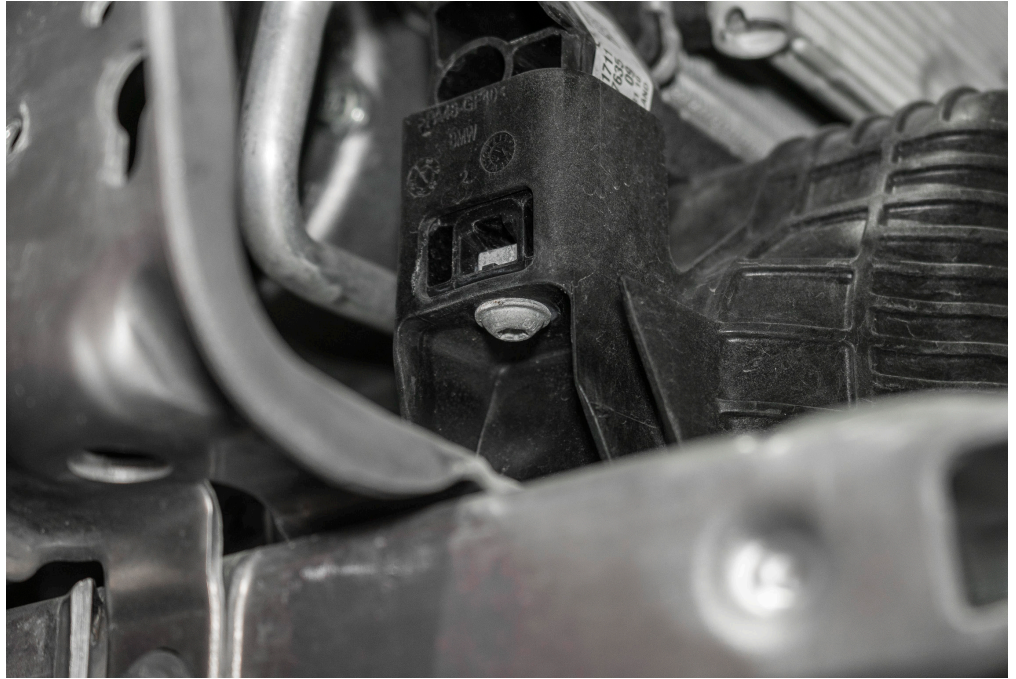
STEP 20

Disconnect the charge pipes on both sides of the intercooler.



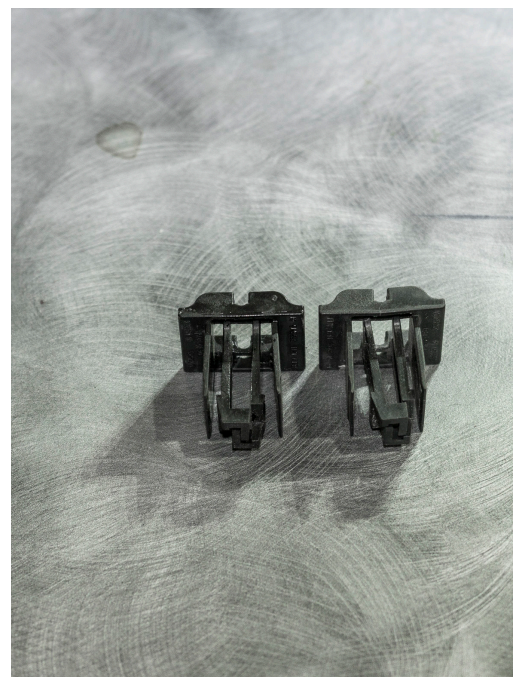
STEP 21

Remove the T30 torx screw on both sides of the OEM intercooler.



STEP 22

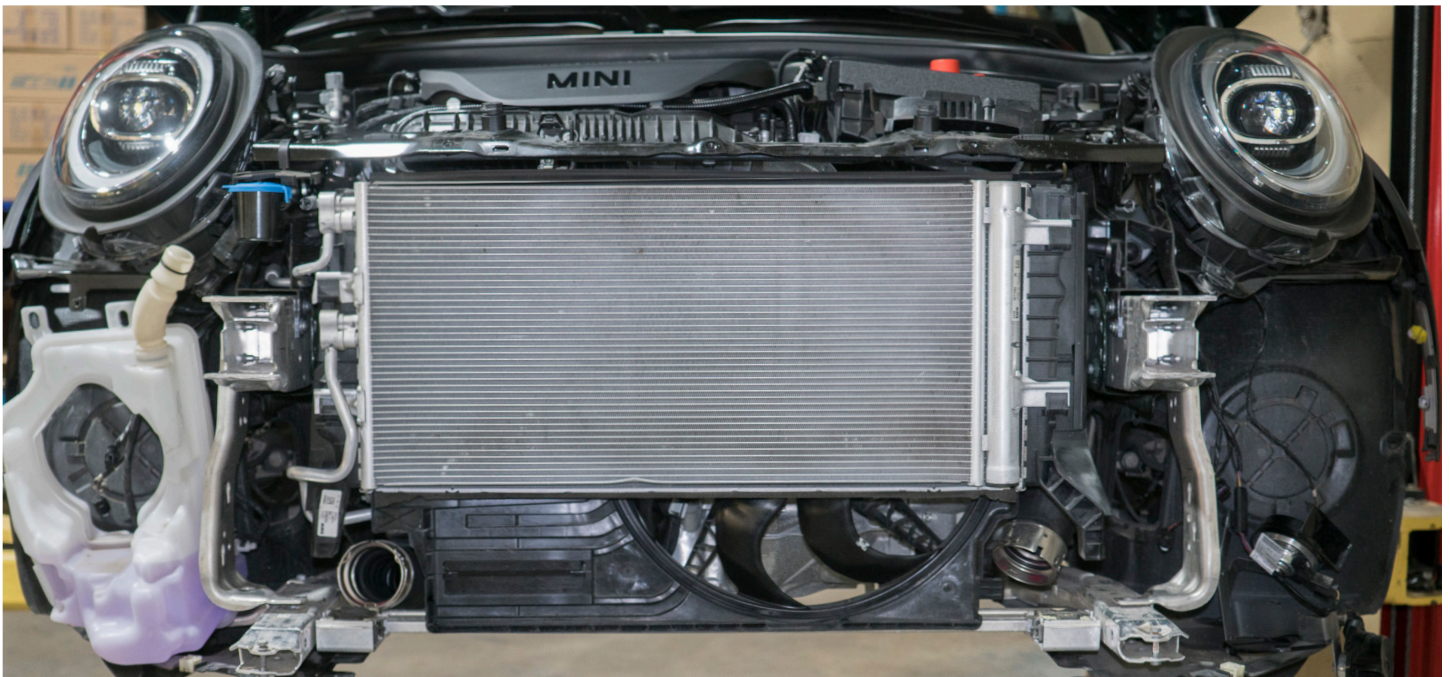
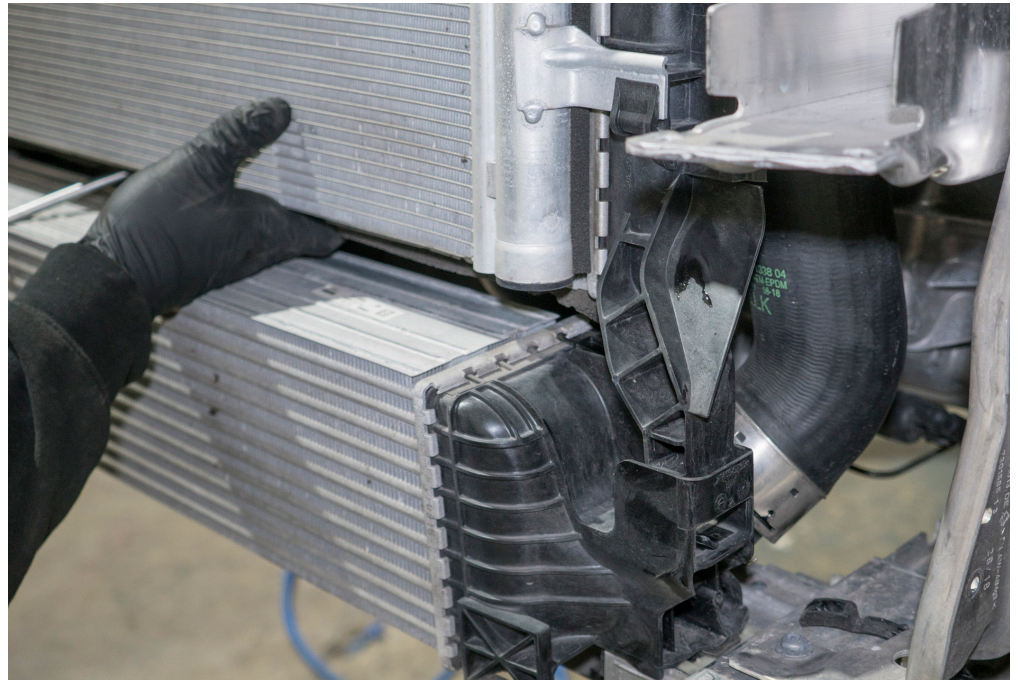
Use a flat head screwdriver to remove the centre part of the clip underneath the intercooler.



STEP 23

For the removal of the intercooler you need two people.

Lift the intercooler and radiator upward to clear the rubber mounts. Use a flatblade screwdriver or similar tool to release the rubber mounts.



STEP 24

Install the CTS intercooler.



STEP 25

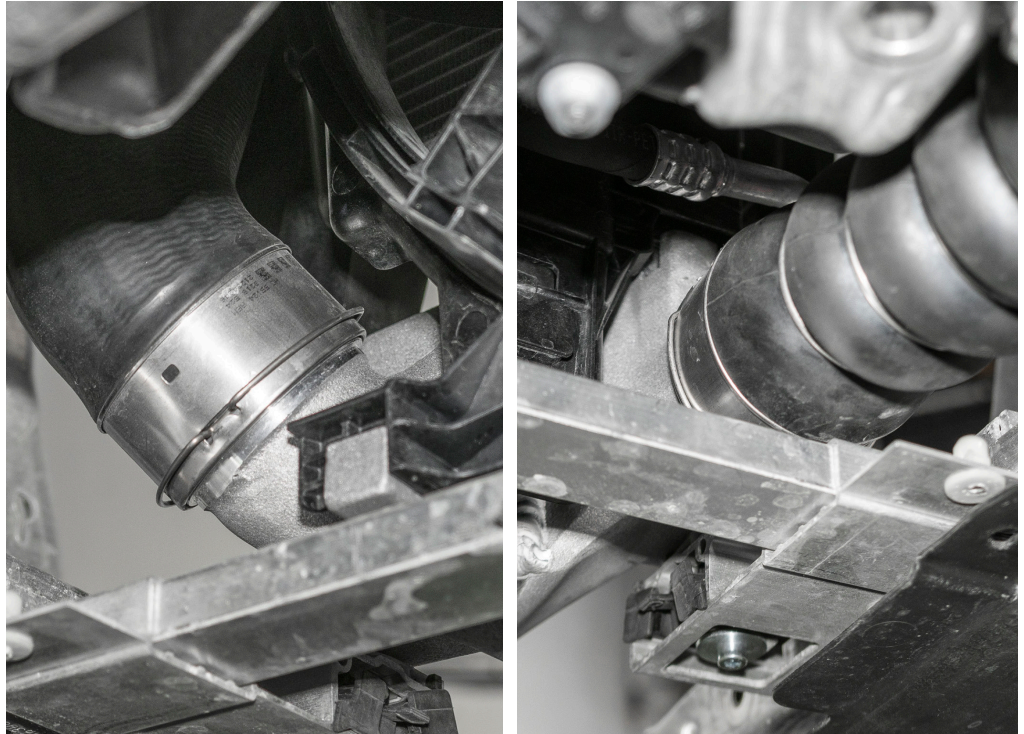
With the provided hardware install the washer and 5mm allen to secure the intercooler on the bottom mounts.

Install the 13mm bolt on the radiator and intercooler brackets.



STEP 26

Reconnect the chargepipes to the intercooler.



STEP 17

Follow steps 19 to 1 in reverse to reassemble your car.

You are done!

