



INSTALLATION GUIDE
CTS TURBO HEAT EXCHANGER
F80 BMW M3/M4

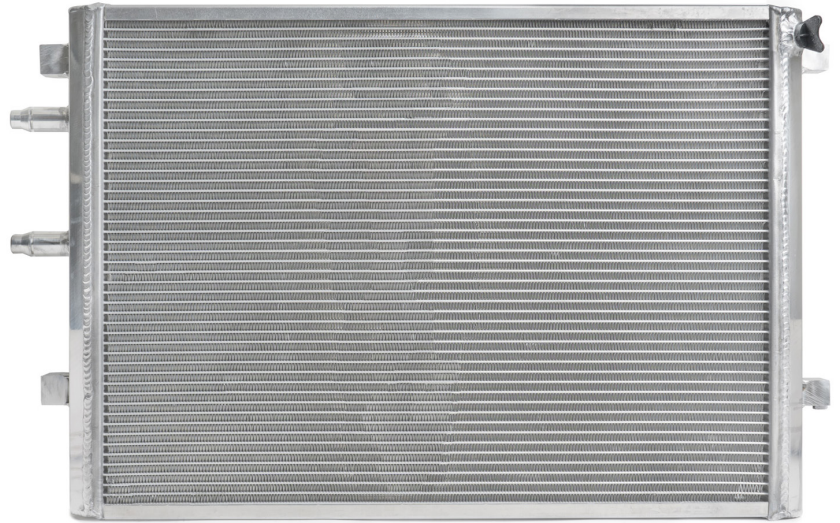


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WHAT IS INCLUDED

1. CTS heat exchanger

**Other requirements:**

1. Before Installing make sure you have new coolant to refill the system.
2. Battery charger recommended.

NOTES

Vehicle used in this guide is a 2016 BMW M4. 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

Remove the inner wheel well trim on both sides of the vehicle. There are 9 bolts you need to remove.



STEP 2

On both sides there are two connectors that need to be disconnected.

**STEP 3**

Remove the screw on both sides of the bumper



STEP 4

Remove the under-tray which covers the radiator and heat exchanger



STEP 5

Remove the weather stripping seal.

**STEP 6**

Remove the eight torx bolts that attach the bumper to chassis.



STEP 7

You may carefully remove the bumper.

It will make it easier with two people to remove.

**STEP 8**

Remove the plastic covers to access the carbon fiber brace bolts



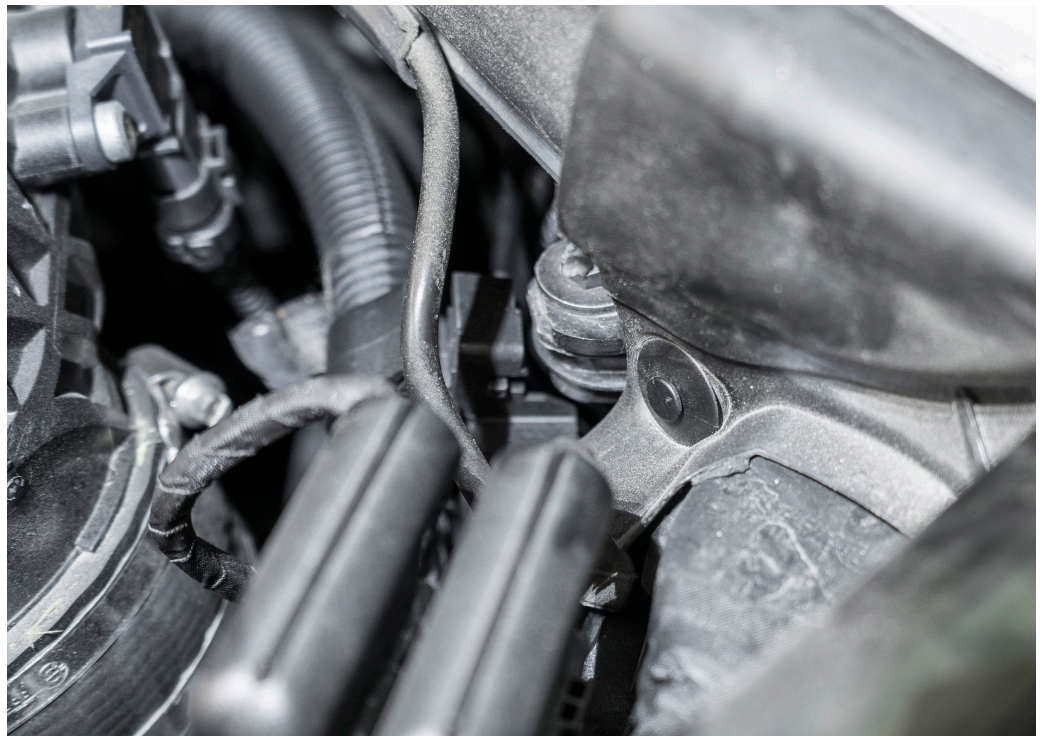
STEP 9

Remove the 9 bolts holding the brace in place.

**STEP 10**

Before removing the brace you will need to remove these clips.

You may now remove the brace.



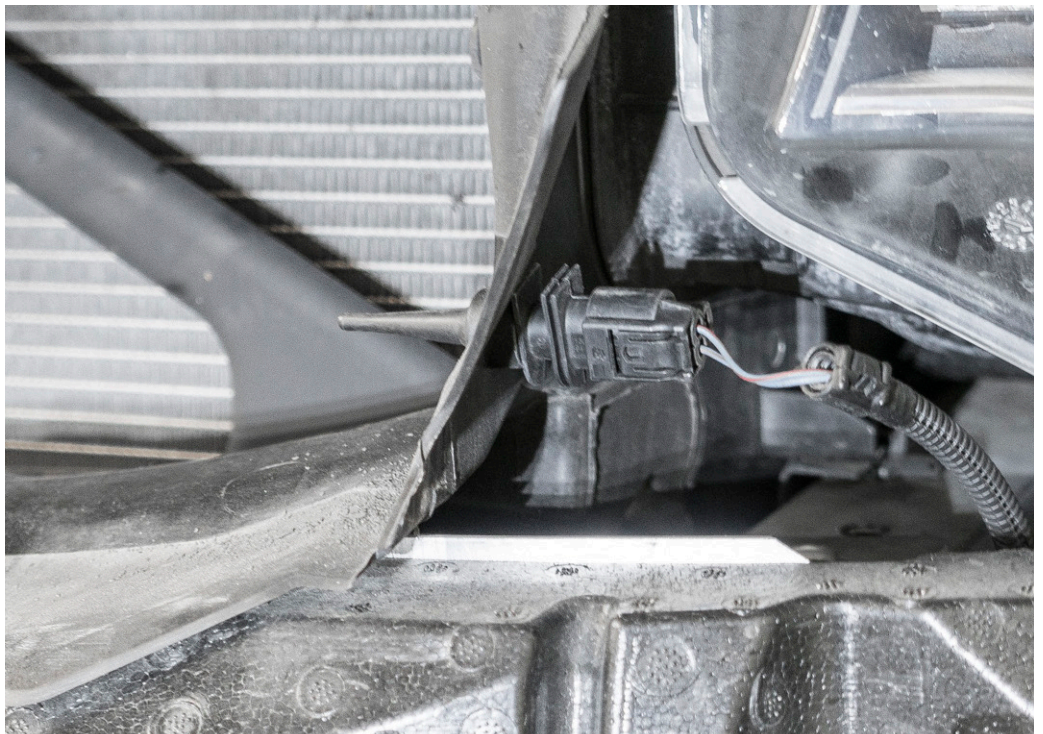
STEP 11

You will need to remove the hood catches and support frame indicated in image below.



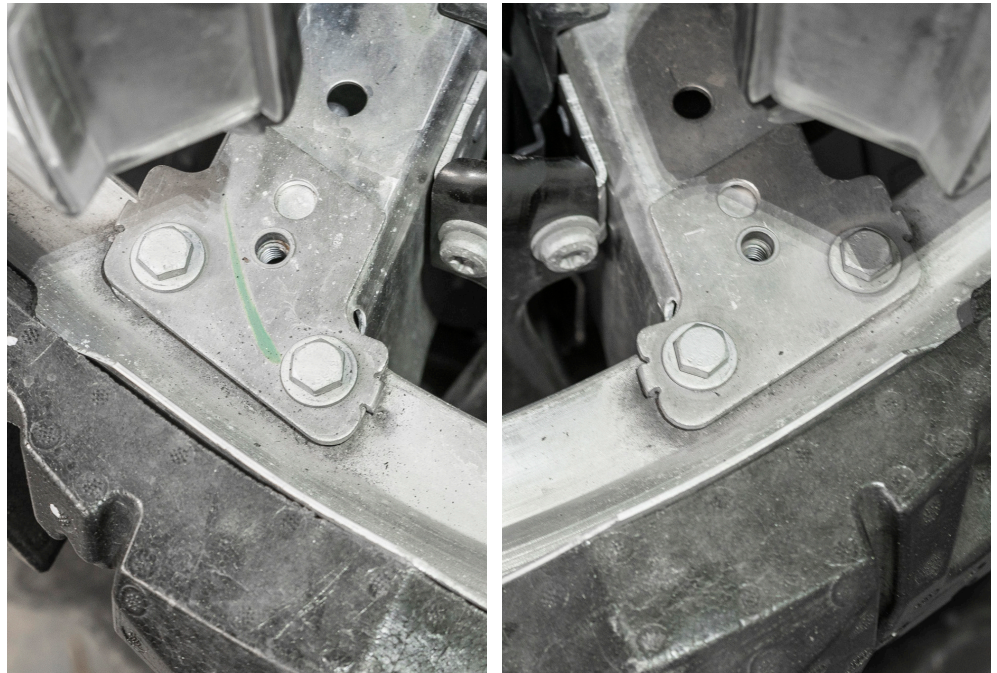
STEP 11
CONTINUED**STEP 12**

Remove the electrical connector and the sensor.



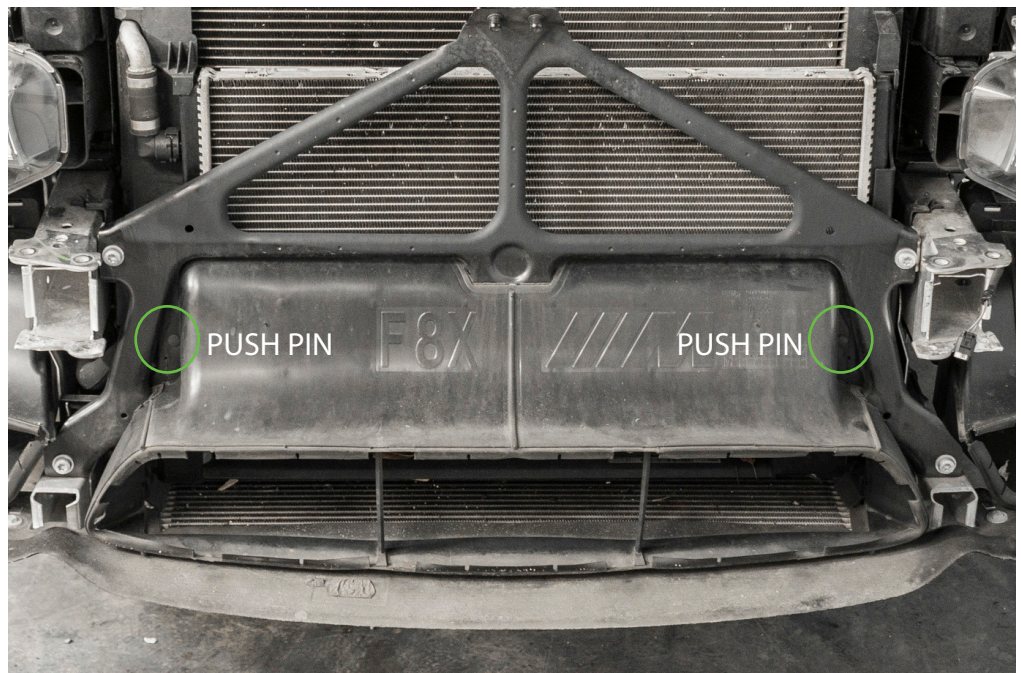
STEP 13

Remove the 4 bolts that attach the crash bar and remove.

**STEP 14**

Remove the front brace.

Remove the air duct. There are four clips and 2 push pins to unclip and remove.

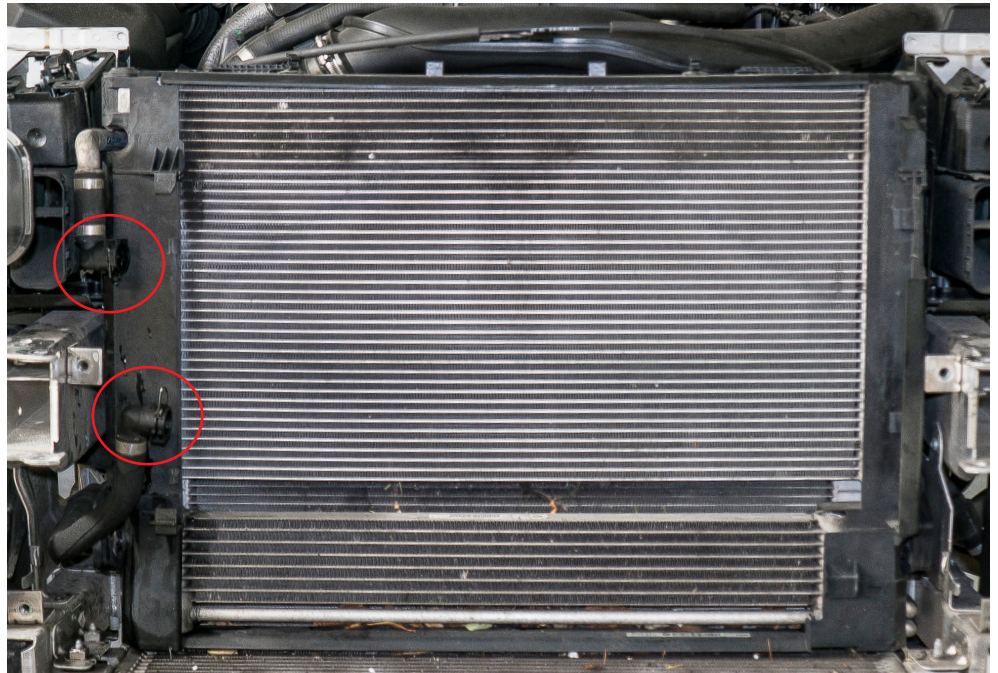


STEP 15

At this point you have to drain the coolant system from the secondary intercooler on the passenger side of the vehicle.

**STEP 16**

Disconnect the coolant lines and remove the stock heat exchanger



STEP 17

Install the CTS heat exchanger and reconnect the coolant lines.

**STEP 18**

You will need to refill the coolant from where the air to water intercooler is located and at the heat exchanger.

Note: You will need a spout small enough to fit into the heat exchanger for filling the coolant.



STEP 19

At this point we need to bleed the system. You may need to do this 2 or 3 times to make sure all the air is out of the system.

1. Connect the battery charger if you have one.

2. Turn the ignition on but don't start the car.

3. Turn your lights on to low beam.

4. Turn the climate control heat up to maximum and the fan on the lowest setting.

5. Next you hold down the accelerator for 6-10 seconds, you will hear the water pump turn on.

The process lasts around 11 minutes.



STEP 20

Once the bleeding of the coolant is complete check to see there are no leaks from the lines that were disconnected.

You are now ready to put the front end back together. Follow back from step 14 and then you are DONE!

