



## INSTALLATION GUIDE

CTS TURBO INTAKE  
F80 M2 COMP/M3/M4  
CTS-F8X-DF



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

[www.CTSTURBO.com](http://www.CTSTURBO.com)

## WHAT IS INCLUDED

1. CTS air-to-water intercooler
2. Silicone coupler
3. Hardware



## NOTES

Vehicle used in this guide is a 2017 BMW M3.

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

Locate the stock air-to-water intercooler.



## STEP 2

Remove the upper right inlet coolant line.



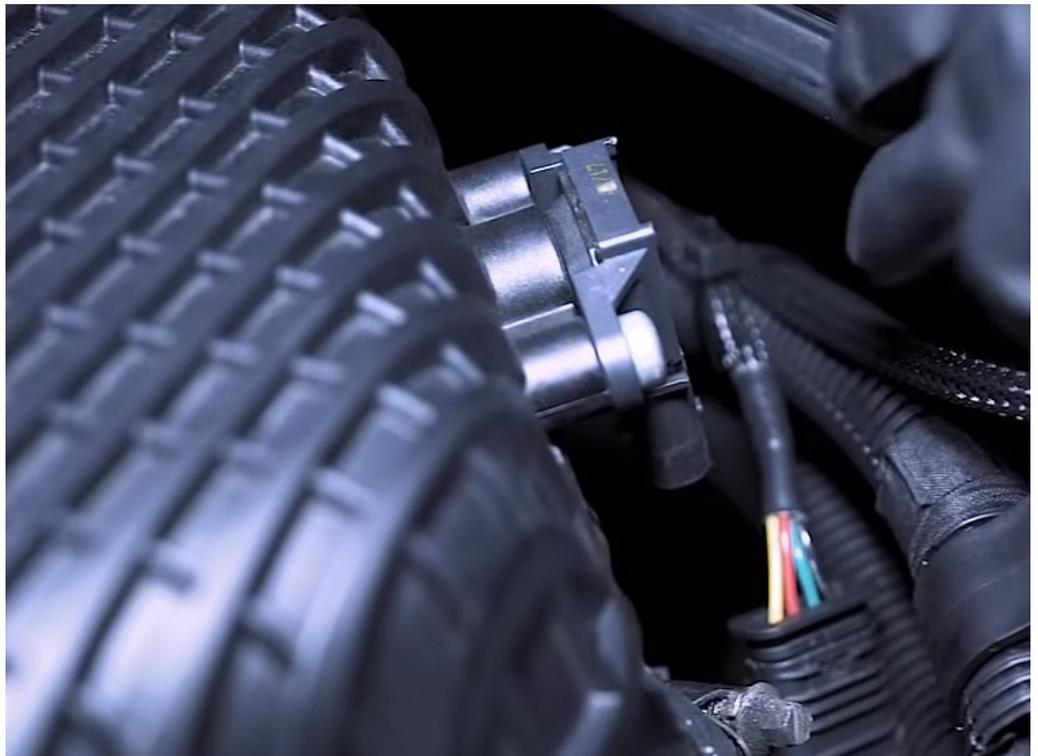
### STEP 3

Disconnect the  
two coolant lines  
indicated.



### STEP 4

Disconnect air  
temperature  
sensor.



**STEP 5**

Loosen the clamp connecting the J-pipe to the cooler.

**STEP 6**

Disconnect the chargepipes from the stock air-to-water intercooler.



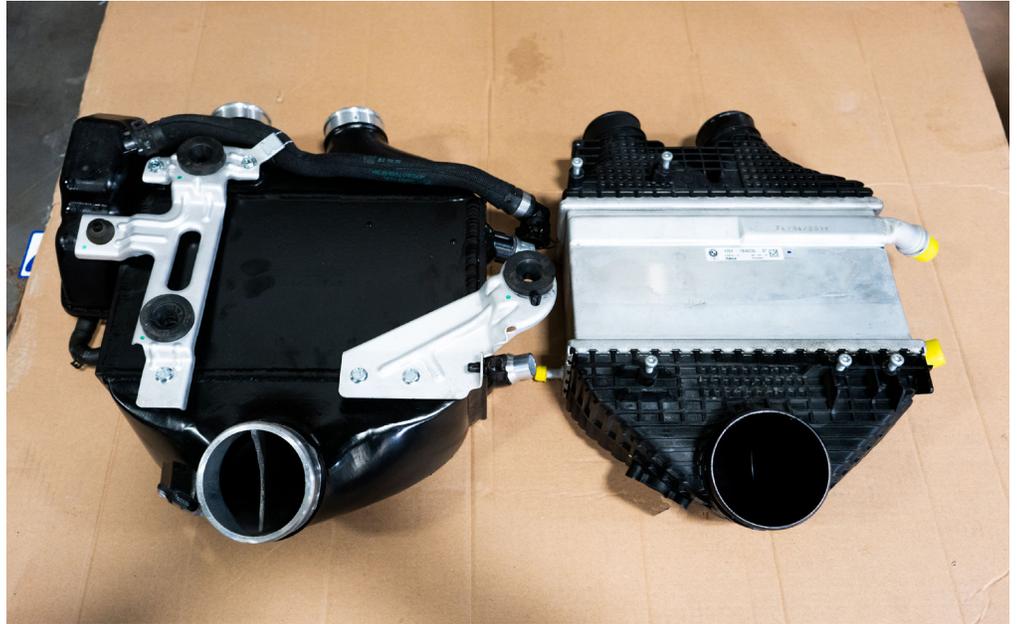
**STEP 6**

You may now lift and  
remove the air-to-  
water intercooler.



**STEP 7**

Swap over the brackets, air temperature sensor and reservoir tank to the CTS air-to-water intercooler.



**STEP 10**

Install the CTS air-to-water intercooler.

Make sure to check all the coolant lines, chargepipes, and the air temperature sensor is connected



## Bleeding the cooling system

At this point we need to bleed the system. First refill the reservoir with coolant and then proceed to follow the instructions. The vehicle must be in Sport or Sport+ (not comfort)

1. Connect the battery charger if you have one.
2. Turn the ignition on but don't start the car.
3. Turn the lights on to low beam.
4. Turn the climate control heat up to highest temp and the fan on the lowest speed.
5. Next you will depress the accelerator for 10 seconds, you will hear the water pump turn on.

The process lasts around 11 minutes. You may need to repeat the procedure 2-3 times to make sure the entire system has been bled. To restart the procedure, you will need to cycle the key off and let the vehicle go to sleep before turning the key on and starting again.



Vehicle must be in Sport, or Sport Plus

