



INSTALLATION GUIDE

Subframe Collar Kit
CTS-HW-036



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

www.CTSTURBO.com

WHAT IS INCLUDED

1. 6 Collar Pairs (12 Total Pieces)
2. 2 Replacement Bolts

**TOOLS REQUIRED**

1. Phillips screwdriver
2. 13mm, 16mm, 18mm Socket
3. Pry Bar
4. Compressed Air Source

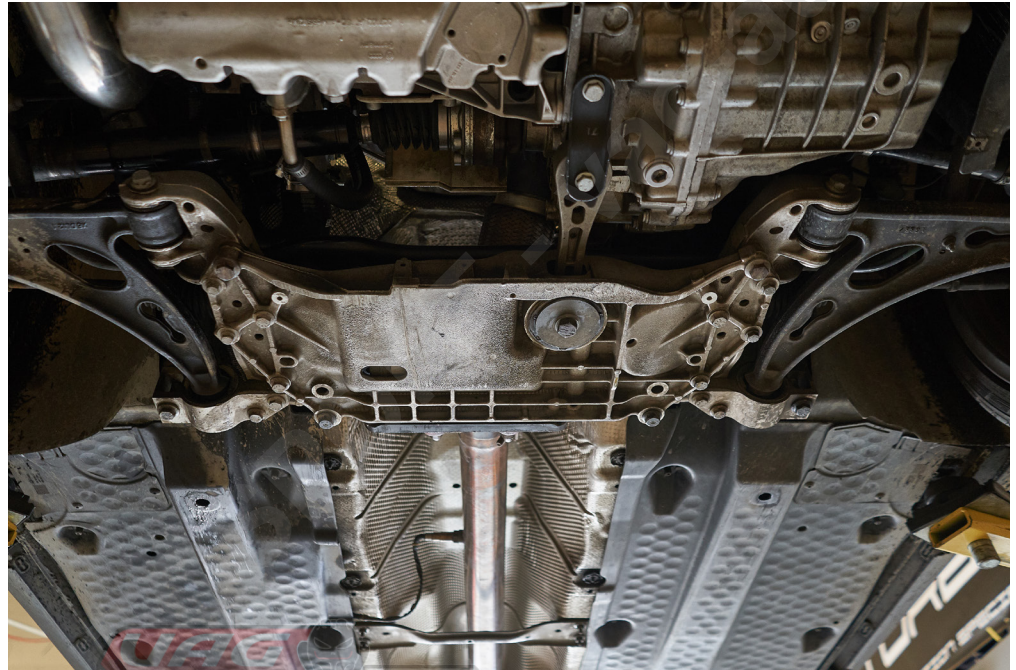
**NOTES**

Vehicle used in this guide is a 2007 VW GTI. 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

Safely raise and support your vehicle, then remove any skid plates or factory insulation panels that may be in the way.

You will need to have full, unrestricted access to the subframe as shown.



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STEP 2

Using a floorjack or other means, support the subframe



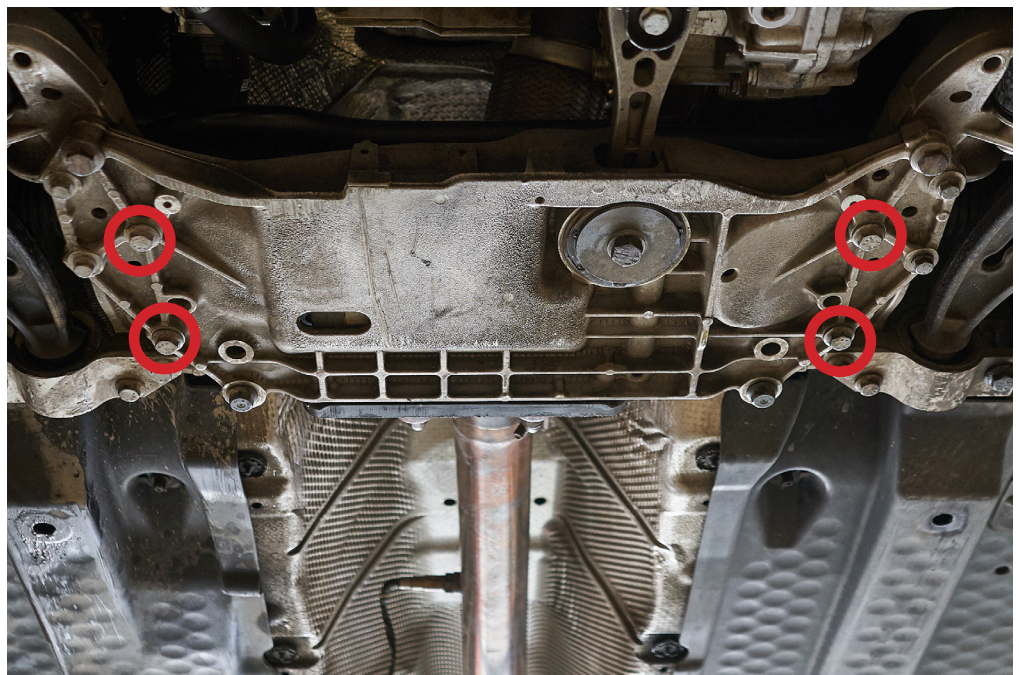
STEP 3

Remove the two bolts in the exhaust hanger.

**STEP 4**

Remove the FOUR steering rack bolts.

It is important to remove these bolts first to avoid un-necessary strain on the steering rack/column.



STEP 5

Remove the following:

- Upper Subframe Bolts
(accessible through the lower control arms)

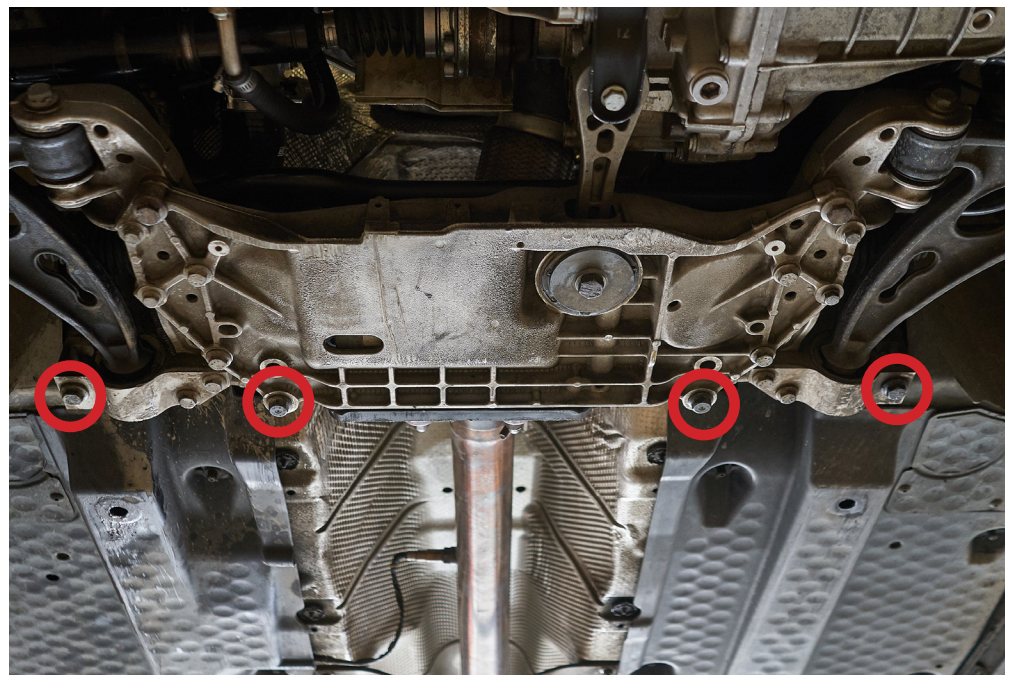
**STEP 6**

Remove the following:

- Lower subframe bolts
- Control arm bracket bolts

Lower the jack roughly 10mm, just enough clearance for the top collar

Check for TSB shims between the subframe and the body. Remove any shims that are present and do NOT re-install.



STEP 7

This shows the difference between the top collar and the lower collar

LEFT: Bottom (has flat edge)

RIGHT: Top

**STEP 8**

This shows the orientation of the collars when installing

**Before installing the new hardware, use a source of compressed air to clean out between the subframe and body at all bolting locations.



STEP 9

Match up the bolts with your new replacements as you remove them from the vehicle.

OEM Stretch Bolt: Bottom
Replacement Bolt: Top

**STEP 10**

Install all 12 of the collars with your new hardware. Only tighten the bolts 2-3 turns by hand.

Once all collars have been installed, re-install your steering rack bolts and tighten by hand.



STEP 10

With everything properly in place, tighten by hand and then torque to the specifications below



Control Arm Bracket Bolts M12 x 90 ----- 70 Nm (51 Ft-lbs) + 90 degrees
Steering Rack Bolts M10 x 76 ----- 50 Nm (36 Ft-lbs) + 90 degrees
Subframe Bolts - Lower M12 x 110 ----- 70 Nm (51 Ft-lbs) + 90 degrees
Subframe Bolts - Upper M12 x 90 ----- 70 Nm (51 Ft-lbs) + 90 degrees

STEP 11