



INSTALLATION GUIDE

CTS Turbo Crank Pulley Upgrade Kit 3.0T
CTS-HW-266-180 / CTS-HW-266-187



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

www.CTSTURBO.com

WHAT IS INCLUDED

1. CTS Turbo Crank Pulley
2. Crank Belt
3. M8 grade 12.9 bolts

**TOOLS REQUIRED**

1. Philips head screwdriver
2. 16mm, 17mm Socket
3. Ratchet
4. T-25, T-30 torx
5. 10mm triple square
6. Sharpie

NOTES

Vehicle used in this guide is a 2011 Audi S4. 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

Raise the vehicle using a hoist or jack stands and remove the front two wheels.

**STEP 2**

Remove the three T25 Torx screws and the plastic clip holding the fender liners in place.



STEP 3

Pull the fender liner back and remove the 10mm bolt from the front bumper

**STEP 4**

Loosen the bolt holding the bumper cover to the fender with a 10mm socket.



STEP 5

Remove the 1 1/4 quarter turn fasteners from the belly pan and the four T30 Torx from the bottom of the bumper cover.

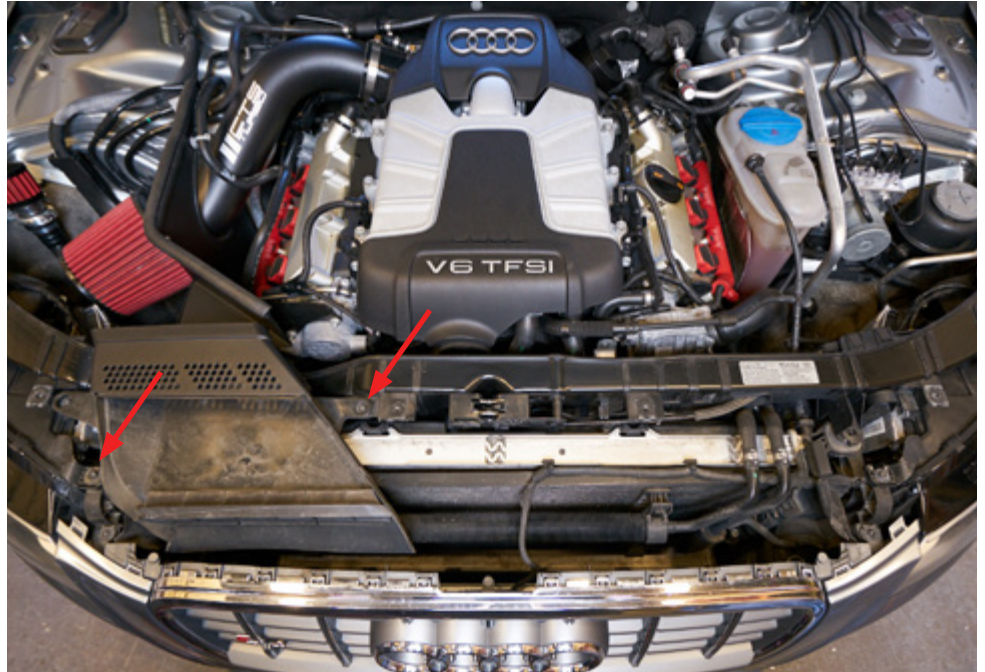
**STEP 6**

Remove the cover to the upper radiator by removing the four T30 screws.

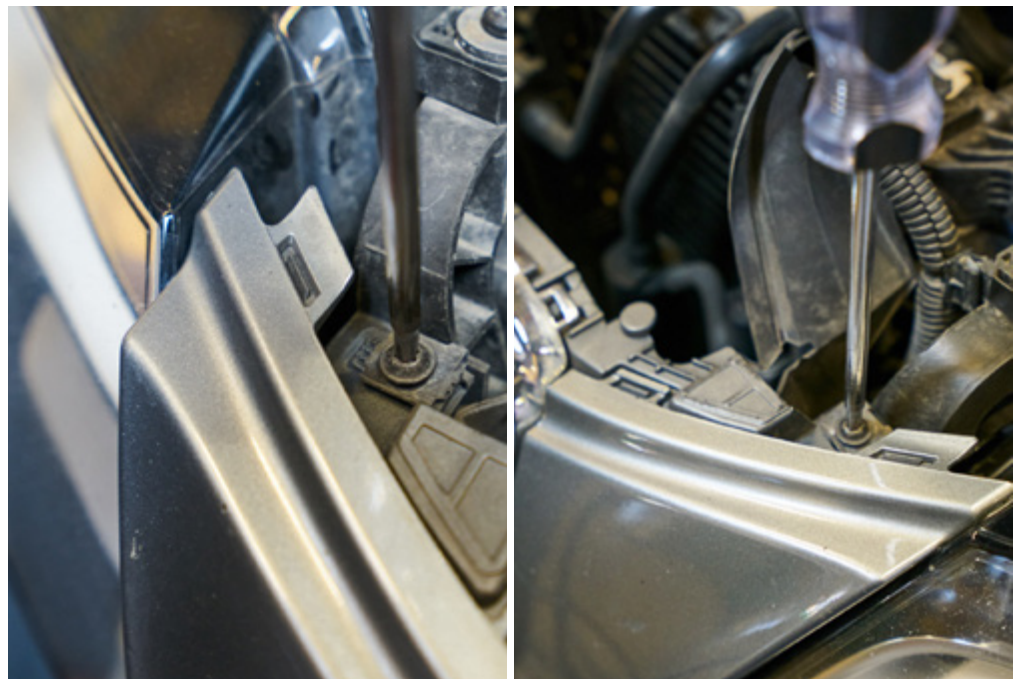


STEP 7

Remove the air inlet by unscrewing the two T25 Torx on either side

**STEP 8**

Remove the upper bumper cover by unscrewing the two T25 Torx screws on either side of the headlights.



STEP 9

Carefully pull out the bumper cover on each side of the front fenders

**STEP 10**

Unclip the foglight and the homelink connections and remove the front bumper cover.



STEP 11

Remove the plastic air duct on the secondary radiator.

**STEP 12**

Unclip and remove the coolant overflow hose from the reservoir.



STEP 13

Using a 16mm socket, remove the lower left side crash bar bolt on the passenger side and the, and the lower right bolt on the driver's side.

**STEP 14**

Replace the crash bar bolts with the two M10 x 120mm bolts provided with the kit. Leave the bolt extended out as shown.

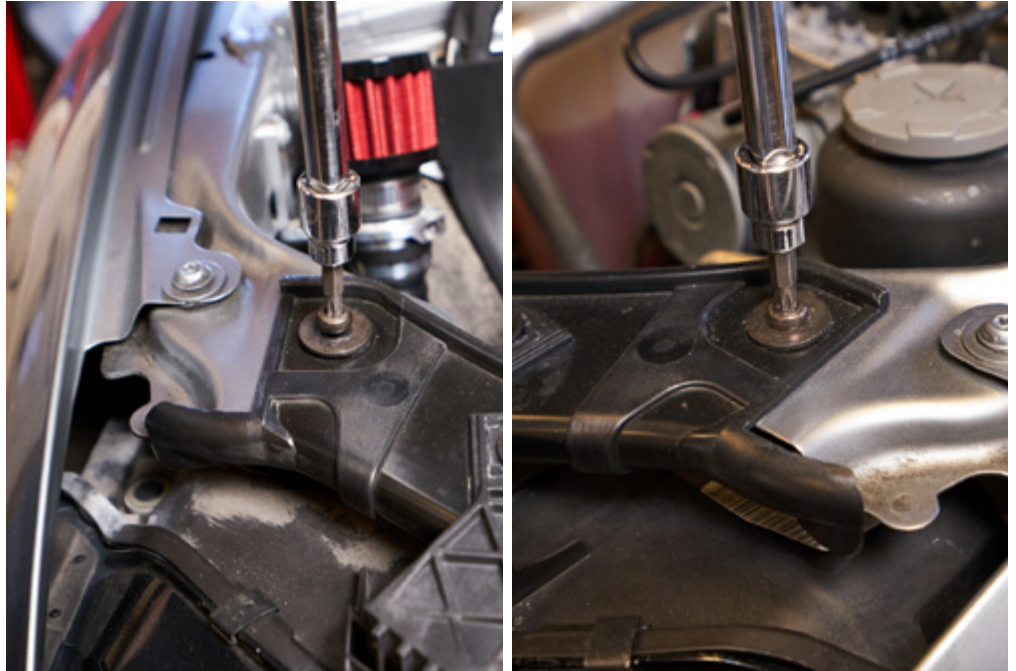
Remove the rest of the crash bar bolts.



STEP 15

Remove the two T30 Torx screws holding the radiator to the fenders.

Unclip the Headlight harnesses from the radiator support.

**STEP 16**

Pull the radiator support forward into “service position” onto the longer bolts installed in step 15. This will give you access to the front of the engine.



STEP 17

Remove the valve cover and make note of how the supercharger belt is routed around the pulleys.

**STEP 18**

Remove the plastic cover on the tensioner pulley and release the tension on the supercharger belt by using a 16mm socket wrench.

Remove the belt.



STEP 19

Use a 17mm socket wrench to loosen the tension on the accessories belt and unloop it from the alternator pulley

**STEP 20**

Using a sharpie, make a note of the orientation of the stock crankshaft on removal



STEP 21

Remove the 8 bolts from the stock crankshaft pulley using a 10mm triple square.

**STEP 22**

The OEM crankshaft has one hole that is offset by 1 mm.

Line up the stock crankshaft pulley with the CTS pulley



STEP 23

Transfer the mark you made on the stock pulley to the CTS pulley.

**STEP 24**

Line up the CTS Crankshaft pulley with the mark you made on the engine block and reinstall everything by following steps in reverse.

You are done!

