

## BRM timing belt checklist

This is a general guide, using factory lockdown tools, through the process of a timing belt change on a 2005.5 to 2006 Jetta TDI.

I have done my best to ensure this list is accurate, however it is possible there are errors. The mechanic is responsible for verifying all torque specs and procedures with the factory repair manual before proceeding.

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Remove engine cover  
Remove upper charge air plumbing  
De-tension serpentine belt and pin tensioner  
Remove serpentine belt  
Remove serpentine belt tensioner  
Unscrew coolant tank  
Cap coolant tank and move towards headlight  
Remove timing belt cover  
Unclip /unbolt fuel filter assembly  
Raise car, carefully place on JACK STANDS  
Remove belly pan  
Remove passenger side skirt  
Remove vibration dampener  
Remove lower timing belt covers  
Support engine from below  
Remove upper mount brace  
Remove fuel filter bracket  
Remove upper engine mount  
Remove engine mount bracket  
(Raise and lower motor to access bolts)  
Rotate crank clockwise to TDC  
**Lock crankshaft**  
Loosen timing belt tensioner  
Remove tensioner  
Remove timing belt  
**Lock camshaft**  
Install new water pump (11 ft-lb)  
Install new lower roller (19 ft-lb)

Install new tensioner, **verify tab location**  
Loosen 3 small bolts on cam pulley  
Slightly rotate camshaft at center bolt so lock pin fits without tension  
Remove 3 small bolts on cam pulley  
Remove cam lock pin  
Remove outer camshaft pulley  
Position belt on all but camshaft pulley  
Position belt over cam pulley, then reinstall the pulley over camshaft. Check that the cam pulley position allows the 3 bolts to be reinstalled at the approximate middle of their adjustment range. Ensure the cam lock tool can be reinserted. If bolts and lock will not go back in correct orientation, adjust the relative position of the outer pulley to the belt till proper alignment is achieved.

Loosely install 3 small camshaft pulley bolts  
**REINSTALL CAM LOCK PIN**  
**VERIFY CRANK LOCK IS IN PLACE**  
Set tension on timing belt tensioner  
Tensioner torque (15 ft-lbs plus 45°)  
Tighten three small cam sprocket bolts (18 ft-lb)  
Remove crankshaft lock  
Remove camshaft lock pin  
Rotate engine 2 full turns at crank bolt  
**Lock crankshaft**  
*Though the camshaft lock pin will likely not be able to be re-inserted, verify that it is EXTREMELY CLOSE. This is OK*  
Install metal belt covers  
Install engine mount bracket (33 ft-lb)  
Install vibration dampener pulley (18 ft-lb)  
Install engine mount  
Bolts to frame (30 ft-lb + 90°)  
Bolts to bracket (74 ft-lb)  
Install mount brace (15 ft-lb + 90°)  
Install coolant tank  
Install serp belt tensioner (15 ft-lb)  
Install serp belt

Install fuel filter bracket  
Re-clip fuel filter to bracket  
Install side skirt  
Install upper charge air plumbing  
Install belly pan  
Re-fill coolant

Check torsion in vag-com

To adjust, loosen 3 cam pulley bolts  
Turn large center cam bolt CW to raise torsion value, CCW to lower torsion value

**USE CAUTION THAT THE LARGE CENTER CAMSHAFT BOLT DOES NOT LOOSEN AT ALL.**

Reinstall timing belt cover and engine cover