

# A U T O T E C H

## Installation Instructions

*Sport Tuning*

www.autotech.com

**PART NUMBER:** 10.109.423

**DESCRIPTION:** G-Grind Euro GTI Sport Camshaft

**SPECIAL TOOLS REQUIRED:**

Bentley manual for your model Volkswagen  
Torque wrench  
Valve adjusting tool, SP 79500 (1.6/1.7L) or SP 83100 (1.8L)  
Valve shim pliers, SP 81200

**NOTE:** Solid lifter engines **always** require adjustment of valve lash after a camshaft change. If you do not have the proper tools required to adjust the lash, **do not** change your camshaft. Have your cam installed by someone who has proper tools!

**PROCEDURE:** The procedure for installing a camshaft in your car is best described in the Volkswagen approved Bentley Service Manual. Use it for proper procedures and technical specs. Therefore, we will merely touch on some important aspects of the installation, insuring that the installation is as hassle free as possible.

1. Make sure that your existing camshaft is at Top Dead Center before removal.
2. Be sure to lubricate all bearing surfaces of the new camshaft with assembly lube prior to installation.
3. Replace the cam oil seal for leak free operation.
4. Apply Loctite to the threads of the bolt that holds the timing gear to the camshaft, and torque properly.
5. Make sure to properly torque the nuts holding the cam bearing caps to the head.  
**DO NOT OVERTIGHTEN!**
6. Adjust the valve lash before applying assembly lube to the lobes so that the measurements are more precise.
7. If your cars timing belt has 50,000 miles or more on it, it should be replaced.
8. To properly break in the new camshaft, run the engine at a steady 2000RPM for the first 20 minutes. This maintains good oiling of the camshaft to ensure that it stays cool during the critical break in period.

**SPECS:** Lift: 0.423", Duration 228° at 0.050" check clearance, Lobe center: 108°