



TECH NOTE



AUTOMOTIVE

AUDI & VOLKSWAGEN SERVICE INFORMATION

Due to durability issues with the original OE synchronous drive system, the manufacturer has reengineered the drive to achieve a more reliable setup that provides worry free performance.

Refitting the synchronous drive with reengineered component is the recommended service procedure for these vehicles. Gates Timing Component Kits offer the reengineered parts necessary to do the complete job, including the redesigned hydraulic strut tensioner. (TCKH317A)

Please be aware that the updated drive system design requires a different timing belt. Those vehicles equipped with the old design will have a 152 tooth timing belt (T291). The updated design makes use of a 153 tooth belt (T317). This 153 tooth belt combined with the components contained in a Gates timing component kit will set the drive in the current OE approved configuration.

The OE system that is no longer available from the manufacturer is illustrated in Fig #1. The updated system, contained in Gates TCKH317A, which includes the redesigned hydraulic actuator, tensioning roller and 153 Tooth timing belt (Gates T317) is illustrated in FIG #2.

A 152 tooth belt (T291) CANNOT be combined with the updated components pictured below (Fig. 2). And a 153 tooth belt (T317) cannot be placed on the older version of the drive set up without risking engine damage (Fig. 1).

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PART NUMBER:

- T291
- T317
- TCKH317A

MAKE:

- Audi
- Volkswagen

MODEL:

- A4
- Passat

ENGINE:

- 1.8L – ADR, AEB, AFY, AJL, ANB, APT, APU, ARG, ARK, AVV, AWT



FIG #1 – OLD SYSTEM

152 Tooth Belt



FIG #2 – NEW SYSTEM

153 Tooth Belt

Please note if you are removing a system that has been updated, there could be a difference in the spacer that is included with the pulley. The one that is included in the TCKH317A kit has a 6mm thick spacer; the other



TECH NOTE



which is only available from the OE is 3mm thick. These are not interchangeable on the drive. Incorrect distance will cause premature belt and drive system failure.

Always double check the component you are removing. You may encounter a difference in spacer thickness of the tensioner pulley. If the spacer currently on the vehicle is 3mm, then it will need to be obtained from the OE. If the spacer is 6mm it will be supplied in the Gates TCKH317A. This will guarantee proper system alignment.



OE 058109243D

Gates - T43065

(included in Gates - TCKH317A Kit)

Note the size of spacer is 6mm

OE 058109243D

Gates - T43123

Note size of spacer 3 mm