

# PRODUCT DEVELOPMENT EUROPEAN AFTERMARKET

No: 1001  
11/2006REV



## **TOPIC:**

**TIMING BELT SYSTEM REPLACEMENT ON VAG 1.8 20V ENGINES**

## **DAYCO PRODUCTS:**

- 94843 (153STP8M250H) TIMING BELT
- KTB156 (KIT IS NOW OBSOLETE AND REPLACED WITH)
- KTB443 (PARTIAL KIT)
- KTB404 (PARTIAL KIT)
- KTB405 (COMPLETE KIT)
- KTB374 (COMPLETE KIT)

## **WHATS CHANGED:**

The VAG 1.8 20v engines were originally equipped with OE belt number 058109119A/058109119D (DAYCO ref for this belt is 94680-belt with 152 teeth), the tensioner component OE number 058109243B and the thermal compensating actuator(\*) OE number 058109479 DAYCO kit was KTB156 (this system is now the old system).

Due to the persistent durability problems the timing belt system was reengineered to use the OE belt 058109119B/058109119C (DAYCO ref for this belt is 94843) the tensioner component OE number 058109243E the hydraulic actuator(\*\*) OE number 059109479B and the smaller idler OE number 058109244. This setup covers 95% of the applications and the Dayco reference is KTB405.

## **DAYCOS RESPONSE:**

With one kit in the range covering only 95% Dayco wanted to have coverage of the missing 5% to make available to the customer, therefore Dayco added another kit to the range, these kits are very similar in content but has one very important difference which lies with the tensioner component, this is explained and illustrated on page 2.

## **IMPORTANT NOTICE:**

The old system is no longer available at the OES level, (Dayco REF KTB156 is also obsolete for the aftermarket. It is strongly recommended that the entire system is replaced with the new system as and when the original timing belt is due to be replaced, it is also important to make sure the components from the old system are not interchanged with the ones from the new as this could result in engine damage.

(\*) uses a wax element that compensates for the different thermal expansion of the engine and belt

(\*\*) uses oil as damping fluid

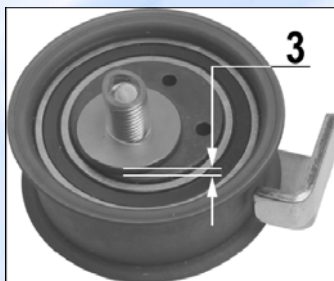


**TENSIONER DIFFERENCES:**

The 2 tensioners below FIG 1 and FIG 2 are very similar in appearance but look closely and there is a very distinct visual difference on the backside of the tensioner!!

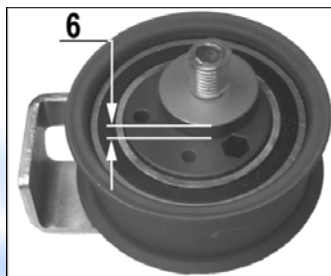
The first tensioner ( FIG 1)OE 058109243D) used in Dayco kits KTB374 and KTB443 you can see the washer is 3mm in thickness, the second tensioner (FIG 2) OE 058109243E) used in KTB404 and KTB405 you can see the washer is 6mm in thickness. This washer determines the distance to the engine.

**WASHER 3MM**



**FIG 1 OE 058109243D**

**WASHER 6MM**



**FIG 2 OE 058109243E**

**IMPORTANT NOTE:**

These tensioners **MUST NOT** be interchanged as this will lead to misalignment in the drive and premature belt failure.

The washer thickness **MUST** always be checked when installing a replacement tensioner to make sure the correct tensioner is being installed for the application

The following pages show kit composition and application information.

PRODUCT DEVELOPMENT  
EUROPEAN AFTERMARKET



**KIT COMPOSITION AND APPLICATION INFORMATION:**

**KTB443 - (PARTIAL KIT) without hydraulic actuator**

- TIMING BELT OE REF **058109119C (94843)**
- TENSIONER OE REF **058109243D**
- IDLER PULLEY OE REF **058109244**

**KTB374 - (COMPLETE KIT) with hydraulic actuator**

- TIMING BELT OE REF **058109119C (94843)**
- TENSIONER OE REF **058109243D**
- IDLER PULLEY OE REF **058109244**
- HYDRAULIC ACTUATOR OE REF **058109479B**

<u>MAKE</u>	<u>MODEL</u>	<u>CC</u>	<u>ENGINE CODE</u>	<u>YEAR FROM</u>	<u>YEAR TILL</u>	<u>CHASSIS #</u>
AUDI	A4	1.8	AFY	07/95	09/00	>8D-T-155000
AUDI	A4	1.8	ADR/AEB	10/94	07/99	>8D-T-155000
AUDI	A4 QUAT-TRO	1.8	ADR/AEB	11/94	07/99	>8D-T-155000

If the application is still equipped with the older system then only the complete kit KTB374 should be installed.

Dayco offer a partial kit KTB443 (without hydraulic actuator) as a less expensive alternative as some competitors may offer.

Dayco highly recommend the complete kit to be installed.

**PRODUCT DEVELOPMENT  
EUROPEAN AFTERMARKET**



**KIT COMPOSITION AND APPLICATION INFORMATION:**

**KTB404 - (PARTIAL KIT) without hydraulic actuator**

- TIMING BELT OE REF **058109119C (94843)**
- TENSIONER OE REF **058109243E**
- IDLER PULLEY OE REF **058109244**

**KTB405 - (COMPLETE KIT) with hydraulic actuator**

- TIMING BELT OE REF **058109119C (94843)**
- TENSIONER OE REF **058109243E**
- IDLER PULLEY OE REF **058109244**
- HYDRAULIC ACTUATOR OE REF **058109479B**

<u>MAKE</u>	<u>MODEL</u>	<u>CC</u>	<u>ENG CODE</u>	<u>YEAR FROM</u>	<u>YEAR TILL</u>	<u>CHASSIS #</u>
AUDI	A4	1.8	AFY	07/95	09/00	8D - T155001>
AUDI	A4	1.8	ADR/AEB	10/94	07/99	8D - T155001>
AUDI	A4	1.8	AJL/ANB/ APT/APU/ ARG/ARK/ AVV	08/97	09/00	
AUDI	A4 QUAT-TRO	1.8	AFY	08/97	09/00	
AUDI	A4 QUAT-TRO	1.8	ADR/AEB	11/94	07/99	8D - T155001>
AUDI	A4 QUAT-TRO	1.8	AJL/ANB/ APT/APU/ ARG/ARK	08/97	09/00	
AUDI	A6	1.8	AEB/AJL/ ANB/APU/ ARK	05/97	05/01	
AUDI	A6	1.8	AFY	05/97	05/00	
AUDI	A6	1.8	ADR	08/95	01/98	
AUDI	A6 QUAT-TRO	1.8	AEB/AJL/ ANB/APU/ ARK	05/97	05/01	
AUDI	A6 QUAT-TRO	1.8	ADR	08/96	04/97	
AUDI	CABRIO-LET	1.8	ADR	04/97	08/00	

**PRODUCT DEVELOPMENT  
EUROPEAN AFTERMARKET**



**KIT COMPOSITION AND APPLICATION INFORMATION:**

**KTB404 - (PARTIAL KIT) without hydraulic actuator**

- TIMING BELT OE REF **058109119C (94843)**
- TENSIONER OE REF **058109243E**
- IDLER PULLEY OE REF **058109244**

**KTB405 - (COMPLETE KIT) with hydraulic actuator**

- TIMING BELT OE REF **058109119C (94843)**
- TENSIONER OE REF **058109243E**
- IDLER PULLEY OE REF **058109244**
- HYDRAULIC ACTUATOR OE REF **058109479B**

CONT.....

MAKE	MODEL	CC	ENGINE CODE	YEAR FROM	YEAR TILL	CHASSIS
VW	PASSAT	1.8	AEB	11/96	12/98	
VW	PASSAT	1.8	AFY/ANB/ APU	11/96	08/00	
VW	PASSAT	1.8	ADR/APT/ ARG	11/96	08/00	
VW	PASSAT EST/ VARIANT	1.8	AEB	05/97	12/98	
VW	PASSAT EST/ VARIANT	1.8	AFY	05/97	08/00	
VW	PASSAT EST/ VARIANT	1.8	ADR	05/97	08/00	

If the application is still equipped with the older system then only the complete kit KTB405 should be installed.

Dayco offer a partial kit KTB404(without hydraulic actuator) as a less expensive alternative as some competitors may offer.

Dayco highly recommend the complete kit to be installed.

Please do not hesitate to contact me for further information

Andy Walters  
Technical Manager  
Dayco Europe S.r.l. (UK)

a.walters@keenmarketing.com  
TEL: 01527 835 625  
FAX: 01527 577 630