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# 010

24/02/2006

# Technical Bulletin

## Timing Belt System replacement on VAG 1.8 20V engines (PowerGrip® Belt and Kits 5492XS)

<b>GATES REFERENCE :</b>	<b>PowerGrip and kit 5492XS</b>	
<b>MAKE :</b>	AUDI / VOLKSWAGEN	
<b>MODEL :</b>	A4, A6, Cabrio, Passat	
<b>MOTOR :</b>	1.8, 1.8 – 20v T	
<b>MOTOR CODE :</b>	AEB, ADR, AFY, AJL, ANB, ARG, ARK, APT, APU, AVV	

### History

Originally the VAG 1.8 20V engines were equipped with OE belt 058109119A/058109119D (5425XS - 152 teeth), tensioner pulley 058109243B and a thermal compensating actuator<sup>(1)</sup> 058109479 (old system).

After durability problems it was decided to reengineer the synchronous system and to use an OE belt 058109119B/058109119C (5492XS - 153 teeth) together with a hydraulic actuator<sup>(2)</sup> 058109479B and a new tensioner pulley 058109243E (new system – Fig. 1).

Together with the small idler, this makes up our K025492XS and covers 95% of the applications.

### New

In order to cover the other 5% and to better serve our customers, we decided to take a new kit into our range. The content of this kit looks the same as K025492XS, but is different in reality. The difference lies in the tensioner pulley. Further explanation is given below.

**Note:** The old system is no longer available on OES level. It is strongly recommended to replace the entire system with the new system (Fig. 1) when the original timing belt needs replacement. Please make sure that parts of the old and new system are not being interchanged in order to avoid engine damage.

(1) Uses a wax element to compensate for different thermal expansion of engine and belt

(2) Uses oil as damping fluid



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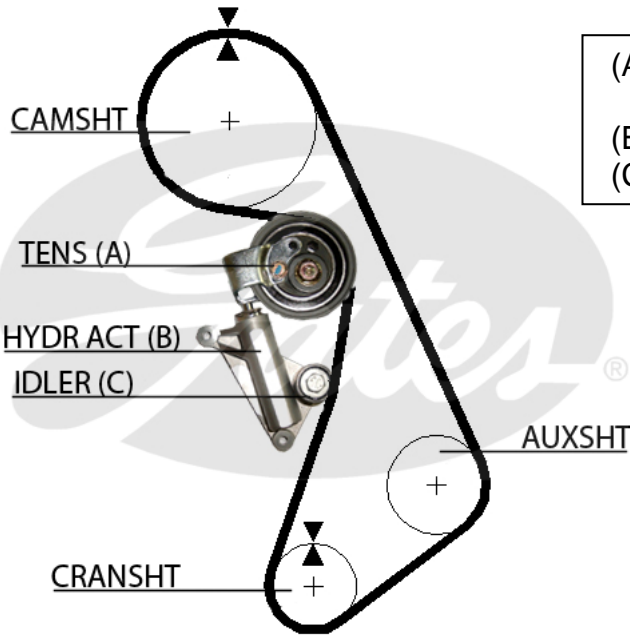


Fig. 1 new system

### Tensioner pulley differences

Please note there is a small but very important visual difference between the 2 tensioner pulleys!

At first sight tensioner pulley 058109243D (fig. 3) used in K03/K045492XS and 058109243E (fig. 2) used in K01/K025492XS are identical. The difference between the two is the thickness of the washer on the backside of the tensioner pulley. This defines the distance to the engine.



Fig. 2 OE 058109243E



Fig. 3 OE 058109243D

Interchanging these two parts leads to misalignment and belt failure. In case of doubt, always check if the tensioner pulley that is being replaced has the same washer thickness as the replacement part.



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## Composition and applications

### OES Kit 058198479 - K025492XS

	OE ref. 058198479	K025492XS	K015492XS
Belt	058109119C	included	included
Tensioner (A)	<b>058109243E</b>	included	included
Hydr. actuator (B)	058109479B	included	not included
Idler (C)	058109244 (not in OE kit)	included	included

If the car is still equipped with the old system, only the complete kit K025492XS can be used.

K015492XS is a 'light' version without the hydraulic actuator and is a less expensive alternative, as some competitors offer.

Gates recommends to use the complete kit K025492XS.

Make	Model	CC	Engine code	From	Till	Chassis number
AUDI	A4	1.8	AFY	7/95	9/00	8D-T-155001 I→
AUDI	A4	1.8	ADR/AEB	10/94	7/99	8D-T-155001 I→
AUDI	A4	1.8	AJL/ANB/APT/ APU/ARG/ARK/ AVV	8/97	9/00	
AUDI	A4 Quattro	1.8	AFY	8/97	9/00	
AUDI	A4 Quattro	1.8	ADR/AEB	11/94	7/99	8D-T-155001 I→
AUDI	A4 Quattro	1.8	AJL/ANB/APT/ APU/ARG/ARK	8/97	9/00	
AUDI	A6	1.8	AEB/AJL/ANB/ APU/ARK	5/97	5/01	
AUDI	A6	1.8	AFY	5/97	5/00	
AUDI	A6	1.8	ADR	8/95	1/98	
AUDI	A6 Quattro	1.8	AEB/AJL/ANB/ APU/ARK	5/97	5/01	
AUDI	A6 Quattro	1.8	ADR	8/96	4/97	
AUDI	Cabriolet	1.8	ADR	4/97	8/00	
VW	Passat	1.8	AEB	11/96	12/98	
VW	Passat	1.8	AFY/ANB/APU	11/96	8/00	
VW	Passat	1.8	ADR/APT/ARG	11/96	8/00	
VW	Passat Estate/Variant	1.8	AEB	5/97	12/98	
VW	Passat Estate/Variant	1.8	AFY	5/97	8/00	
VW	Passat Estate/Variant	1.8	ADR	5/97	8/00	



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## OES Kit 058198479A - K045492XS

	OE ref. 058198479A	K045492XS	K035492XS
Belt	058109119C	included	included
Tensioner (A)	<b>058109243D</b>	included	included
Hydr. actuator (B)	058109479B	included	not included
Idler (C)	058109244 (not in OE kit)	included	included

If the car is still equipped with the old system, only the complete kit K045492XS can be used.

K035492XS is a 'light' version without the hydraulic actuator and is a less expensive alternative, as some competitors offer.

Gates recommends to use the complete kit K045492XS.

K03/K045492XS will be added to our range within the next 3 months.

Make	Model	CC	Engine code	From	Till	Chassis number
AUDI	A4	1.8	AFY	7/1995	9/2000	→8D-T-155000
AUDI	A4	1.8	ADR/AEB	10/1994	7/1999	→8D-T-155000
AUDI	A4 Quattro	1.8	ADR/AEB	11/1994	7/1999	→8D-T-155000

### How to read and decode the chassis number of the VAG group?

The chassis number in the car has 17 positions:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17  
w v w z z z 1 d x y u 0 0 0 0 0 1

In our catalogue only the last 11 positions are mentioned:

7 8 9 10 11 12 13 14 15 16 17  
1 d - y - 0 0 0 0 0 1 (position 9 and 11 become -)

y indicates the model year 2000

1996 = t	2000 = y
1997 = v	2001 = 1
1998 = w	2002 = 2
1999 = x	etc...