

#BECLEVER



WATER PUMPS & TIMING BELT KITS

OUR SMART EXPERT KITS+

FOR A SMOOTH CHANGE



PREMIER

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DATA SUPPLIER



VAICO

ENGINE & TRANSMISSION PARTS
BY VIEROL

The VAICO quality brand stands for high-quality automotive parts. Our focus is therefore on the heart of the car: the engine and the transmission.

As a specialist in the independent parts market, and one that is known worldwide, we offer an extensive range of products, from suction modules to venting hoses and cylinder head covers. We cover more than 13,000 different vehicle models.

Our VAICO parts even cover 95 per cent of the German vehicle market. Whether transmission filters and sets, oil pans, or housing – VAICO offers the best quality products. Suitable transmission oil is also available, in addition to engine oil, antifreeze or additives.

Our range has been bolstered by innovative repair sets from the Expert Kits+ selection. These kits include sets for changing oil, repair kits with hoses and venting valves or transverse control sets. The Q+ seal identifies parts with OEM quality, just like those made by the original equipment manufacturers.

Our competent expert team works everyday to optimise our VAICO automotive parts and to extend our range. Our aim is to have satisfied customers all around the world.

TIMING BELT KITS

The timing belt is used to synchronise the crankshaft and camshaft and transmits the rotational movement in a 2:1 ratio. Through this movement, the camshaft controls the engine's intake and exhaust valves to ensure the correct filling of the cylinders. The crankshaft, on the other hand, ensures that the vertical movement of the pistons is converted into a rotary movement. If the timing belt is incorrectly tensioned, there is a risk that the timing will change, which can cause the valves and pistons to collide.

Furthermore, the timing belt runs over tension and idler pulleys and can also be used to drive a water pump. These components are also subject to wear and are usually replaced with the timing belt.



TIMING BELT: PART OF THE MOTOR CONTROL

COOLING | 15001

Information

The tooth belt or also called timing belt, is a basic component of the motor control system. It has the important function to connect the crankshaft with the two camshafts and to transmit the rotation power of the crankshaft on the camshafts. By transferring the rotational force on the camshafts, the control valves controlled within the camshaft (cylinder control), whereby the optimal combustion inside the engine compartment is guaranteed. The timing belt also connects various belt pulleys of individual auxiliary units with each other, so that in addition to the correct functioning of the engine, also the driving comfort is controlled by the timing belt.

The following units can be driven via the timing belt:

- Generator -> supply of electrical consumers (light, heating, ABS, ESP)
- Hydraulic pump
- Power steering -> driver support while steering
- A/C compressor -> regulation of the temperature of the passenger compartment
- Fan -> cooling of the coolant circuit
- Water pump -> circulation of the coolant, reduction of motor heating

The timing belt is usually made of rubber, polyurethane or synthetic rubber. For an increased

longevity is also guaranteed by glass fibre, aramid or nylon fabric which is incorporated into the belt. Since the toothed belt is exposed to large forces, wear marks (minimal cracks in the surface) are visible after a certain time. First symptoms of a abrasion are for example rapid drop in performance or uneven gear of the engine. Since the timing belt plays an important role in motor control, it is all more important to ensure the smallest signs of abrasion and to observe manufacturer's intervals. In addition, when installing the timing belt, please observe the correct voltage according to manufacturer's specifications so that the toothed belt can not skip. If the above points are not complied with, the worst case is a engine damage.



SYMPTOMS

- Motor does not run
- Noises from the belt drive
- Heavy soot formation
- Unusual smells of the exhaust gases
- Rapid power loss



REASONS FOR FAILURE

- Abrasion
- Toothed belt torn



CONSEQUENTIAL DAMAGES

- Engine damage



RECOMMENDED BY THE EXPERTS

- Change intervals according to note vehicle manufacturer
- Toothed belt replacement only by carry out a specialist workshop let
- Simultaneous change of the water pump, tension pulley and idler pulley



WATER PUMPS + TIMING BELT SETS

You can find the entire range at www.vierol-shop.de

- **Perfectly co-ordinated:** Save time when identifying parts
- **High quality:** Made in Germany, Made in Europe

WATER PUMPS + TIMING BELT SETS=



EXPERT KITS+

The EXPERT KITS+ articles consist of:

Water pump with matching
belt pulley

Tension pulley

PREMIUM belt / belt set

Deflection pulley

Fastening material for the quick
repair (screws, nuts, sealing washers, gaskets)

If necessary with
OE generator freewheel.

As another EXPERT KITS+ product
with coolant.



EXAMPLE BASIC EXPERT KITS (BEK)

Example V10-50105-BEK consists of:

Tension pulley, idler/guide pulley, timing belt, water pump and nuts



EXAMPLE EXPERT KITS+

Example V10-50105 consists of:



Tension pulley, idler/guide pulley, timing belt, water pump, nuts and **coolant**



* For detailed vehicle information, please refer to the vehicle lists under www.vierol-shop.de.

Notes: Temporary offers are only valid while stocks last. All offers remain subject to prior sale. Our general terms and conditions of sale and delivery as well as our warranty conditions apply, which are available for download on our web-site. All prices are net prices. Errors excepted. Reference numbers and names, with the exception of VIEROL AG, are for comparison only and may not be disclosed in invoices. They are non-binding and no indication of origin. © VIEROL AG

TIMING BELT KITS

Brand	Article No.	X-Ref*	Applications
AUDI/VW 	V10-50105-BEK	045 121 011 F kit	A2, A3, Caddy, Fox, Golf V, Polo, T5, Touran
	V10-50105	045 121 011 F kit1	A2, A3, Caddy, Fox, Golf V, Polo, T5, Touran
	V10-50106-BEK	06B 121 011 Q kit	A3, A4, Caddy, Jetta, Golf IV, Passat, Polo
	V10-50106	06B 121 011 Q kit1	A3, A4, Caddy, Jetta, Golf IV, Passat, Polo
	V10-50107-BEK	03L 121 011 J kit	A1, A3, A4, A5, Golf VI, Passat, Touran
	V10-50107	03L 121 011 J kit1	A1, A3, A4, A5, Golf VI, Passat, Touran
	V10-50108-BEK	038 121 011 K kit	Bora, Golf IV, Ibiza, Leon, Toledo
	V10-50108	038 121 011 K kit1	Bora, Golf IV, Ibiza, Leon, Toledo
	V10-50109-BEK	036 121 008 M kit	Caddy, Golf IV, V, Ibiza, Leon, New Beetle, Polo
	V10-50109	036 121 008 M kit1	Caddy, Golf IV, V, Ibiza, Leon, New Beetle, Polo
	V10-50110-BEK	038 121 011 K kit	A3, A4, A6, Alhambra, Golf IV, Passat, Sharan
	V10-50110	038 121 011 K kit1	A3, A4, A6, Alhambra, Golf IV, Passat, Sharan
FORD	V25-50036-BEK	1 351 130 kit	C-Max, Fiesta, Focus, Fusion
OPEL	V40-50063-BEK	13 34 142 kit	Astra, Corsa, Insignia, Meriva, Vectra
RENAULT 	V46-50023-BEK	21 01 018 32R kit	Clio II, III, IV, Kangoo, Sandero, Twingo, Modus
	V46-50023	21 01 018 32R kit1	Clio II, III, IV, Kangoo, Sandero, Twingo, Modus
	V46-50024-BEK	21 01 052 96R kit	Clio II, III, Duster, Kangoo, Laguna, Megane, Scenic
	V46-50024	21 01 052 96R kit1	Clio II, III, Duster, Kangoo, Laguna, Megane, Scenic

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this brochure on
www.vierol-shop.de



ALL ASSORTMENTS ON WWW.VIEROL-SHOP.DE



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