

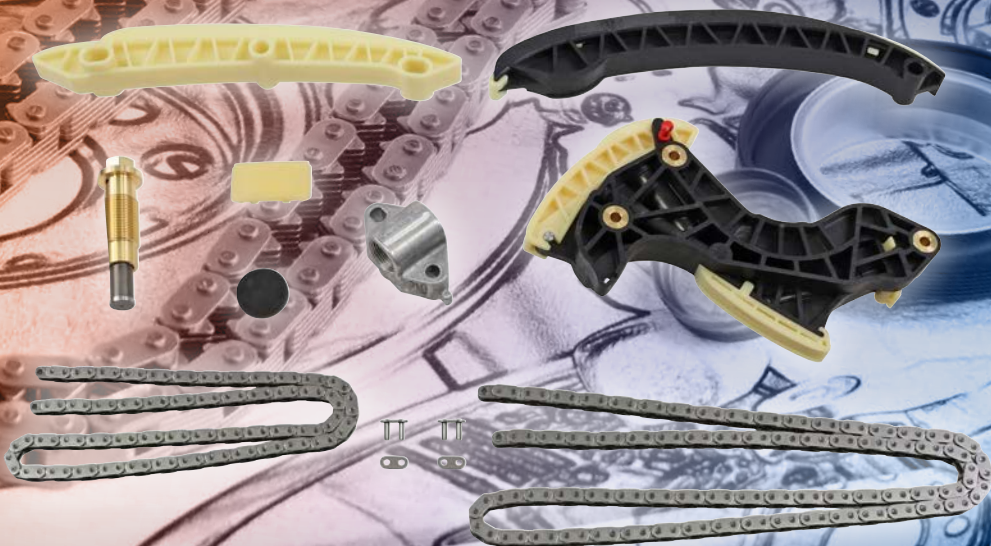
#BECLEVER



TIMING CHAIN KIT

OUR SMART EXPERT KITS+

FOR A SMOOTH CHANGE



TRITAN® COATED &
5 YEARS OF WARRANTY

PREMIER

TecDoc®
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 CHAIN KITS

The timing chain runs over different gear wheels and slide rails and is kept taut by tensioning elements and chain tensioners. This prevents the chain from swinging or knocking.

Timing chains are available in different types of construction, e.g. as roller, pin or toothed chain in simplex or duplex version. Due to constantly decreasing installation space and the need to reduce weight, current engines are almost exclusively equipped with simplex chains, while at the same time increasing power and torque. This development leads to the fact that the timing chain drive, which was considered maintenance-free in the past with life expectancies of more than 500,000 km for duplex chains, is increasingly becoming a wearing part and an initial change of the timing chain in some engines becomes necessary after only 50,000 km.

VAICO offers a comprehensive range of more than 130 timing chain kits as EXPERT KITS+, with all necessary components and installation material, always manufactured with the original chain. Over 60 of these EXPERT KITS+ are even manufactured exclusively with OE components and receive the quality seal "Q+, OEQUIPMENT QUALITY Made in Germany".





TIMING CHAIN KITS

ENGINE CONTROL | 11305

VAICO timing chains are made of metal alloy and therefore withstand any load. In addition to traction capacity and endurance strength, resistance to abrasion is one of the most important quality features of our chains.

As a result of the dynamic movement between the chain pin and the sleeve, both parts inevitably wear out over time. The so-called "elongation" of the chain can lead to an increasing play in the chain joints for instance.

Our chain tensioners are designed to ensure a long-lasting and consistent function under any load. They are produced with high accuracy of fit, which facilitates the installation.

To improve shock-absorption and mini-mize the noise, the timing chain is led over guides made of high-quality plastic. These guides benefit from a resistant coating with advanced emergency running properties. Guides are made of high-performance thermoplastic.

The gears of the camshaft and the crankshaft are characterised by a high accuracy of fit. In order to minimise wear, the ending tips of the gears benefit from a specific shape and treatment.



SYMPTOMS

- Rattling timing chain
- Irregular engine function
- Loss of performance
- Increased fuel consumption
- Engine check-light turns on



CAUSES OF FAILURE

- Elongated timing chain
- Misaligned injection timing



CONSEQUENTIAL DAMAGES

- Engine breakdown



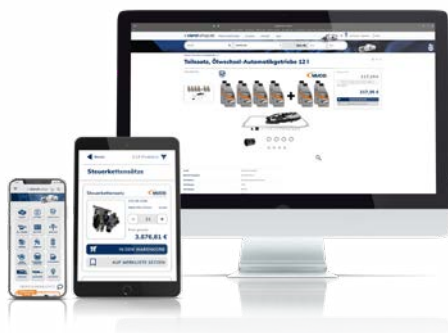
RECOMMENDED FROM SPECIALISTS

- Replacement intervals according to manufacturer
- Replacing of timing chains only by specialists
- Also renew the tensioner, slide rails and mounting accessories



DID YOU KNOW?

Depending on the manufacturer, the **replacement interval** of timing chains and their other components is between **100.000** and **175.000 km**



VAICO'S TIMING CHAIN KITS

About 130 EXPERT KITS+ of Timing Chains you'll find on www.vierol-shop.de/en

- over 60 Timing Chain Kits in Q+ OEM-quality
- high market coverage
- strong availability
- maximum wear resistance



TIMING CHAIN KITS

EXPERT KITS+

The EXPERT KITS+ articles consist of:

Mounting material
incl. drain plug

Oil filter
incl. seals

Engine oil

Guides

Camshaft
gears

Crankshaft gear

Timing Chain

Tensioner



EXPERT KITS+

The advantages of our EXPERT KITS+

- › Accessories included
- › Quick and easy repair
- › Perfect solution for the workshop



BMW E81, F20, F22, E90, F30

Info with slide rails, chain tensioner, gears and camshaft seal

X-Ref 11 31 8 570 649 kit*

V20-10011



BMW F20/21, F30/31

Info with accessories, screws, camshaft, gears, slide rails, chain tensioner and shaft seal

X-Ref 11 31 8 618 318 kit*

V20-10001



Mercedes-Benz W203, S203

Info with chain lock, slide rails, chain tensioner

X-Ref 004 997 24 94 kit*

V30-10022



Opel Astra, Corsa 1.3 CDTI

Info with seals, screws, camshaft, slide rails, chain tensioner, camshaft gear, crankshaft gear and crankshaft seal

X-Ref 06 37 241 kit*

V40-10006



VW Passat, A4

Info with chain tensioner, cylinder head cover gasket and camshaft seal



X-Ref 058 109 229 B kit3*

V10-10004

* 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 CHAIN KITS

Brand	Article No.	X-Ref*	Applications
BMW 	V20-10011-BEK	11 31 8 570 649 kit2	E81, E90, F20, F22, F30
	V20-10011	11 31 8 570 649 kit	E81, E90, F20, F22, F30
	V20-10005-BEK	11 31 8 648 732 kit4	E60, E81, E90, F10, F20
	V20-10012-BEK	11 31 8 648 732 kit2	F10, F21, F22, F30, F32
	V20-10011-BEK2	13 52 8 589 971 kit2	E81, E90, F20, F22, F30
	V20-10010-BEK2	13 52 8 506 969 kit2	E46, E60, E65, E87, E90
	V20-10019-BEK2	13 52 8 490 224 kit2	F10, F20, F30, F48, G32
	V20-10001	11 31 8 618 318 kit	F20/21, F30/31
	V20-10024	11 31 2 452 303	F10/11, F20/21, X1
	V20-10001-BEK	11 31 8 618 318 kit2	F20/21, F30/31
	V20-10021-BEK2	13 52 8 490 225 kit2	F10, F20, F30, F48, G11
	V20-10017-BEK2	13 52 8 648 731 kit2	F20/21, F30/31, F48
	V20-10009-BEK	11 31 8 618 318 kit4	E46, E81/87, E90 N45
	V20-10026-BEK	11 31 8 631 842 kit2	B38, B48, B58
	V20-10006	11 34 8 649 768 kit	E46, E60, E81, E84, E90
	V20-10016	11 31 7 504 468 kit	E60/61, E63/64
CITROËN	V22-10001-BEK	V8 618 318 80 kit2	C3, C4, C5, DS3, 207, 208
FORD	V25-10007-BEK	1 231 282 kit5	Mondeo, Boxer
MERCEDES-BENZ 	V30-10015-BEK	000 993 63 76 kit2	W203, 204, 211, 212
	V30-10022	004 997 24 94 kit	W203, S203
	V30-10024-BEK	000 993 71 76 kit1	W212, 213, 222, 166
	V30-10019-BEK	000 993 10 78 kit2	W204, W212, C207
MINI	V20-10003	11 31 8 618 317 kit3	R55, 56, 57, 58, 59

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Brand	Article No.	X-Ref*	Applications
OPEL 	V40-10003	06 37 241 kit	Agila, Astra G, H
	V40-10006	06 37 009 kit	Astra, Corsa 1.3 CDTI
	V40-10007-BEK_S	55 495 936 kit2	Astra J+K, Insignia
	V40-10007-BEK	55 495 936 kit2	Astra J+K, Insignia
	V40-10007	55 495 936 kit1	Astra J+K, Insignia
	V40-10009-BEK	12 660 118 kit2	Astra K, Adam
RENAULT 	V46-10006-BEK	13 0C 123 45R	Clio, Megane, Kadjar
	V46-10003	13 02 892 46R kit	Megane III, Kadjar
	V46-10005	13 02 892 46R kit2	Megane III, Kadjar
	V46-10001	82 00 343 394 kit	Megane III, Trafic
	V46-10004	13 0C 118 63R kit	Master III, NV400
SKODA	V10-10009	03E 109 229 A kit	Fabia, Ibiza, Polo
TOYOTA	A70-10002-BEK	13506-22030 kit2	Avensis, Celica
VW 	V10-10008	03D 109 229 kit	Fabia, Fox, Polo
	V10-10004	058 109 229 B kit3	A4, Passat
	V10-10019-BEK	059 109 229 AA kit2	A4, A6, A8, Q5
	V10-10027-SP	059 109 229 J kit7	A4, A5, A6, Q5, Q7
	V10-10021-BEK	059 109 229 AA kit4	A4, A6, A8, Q5
	V10-10025	03D 109 158 C kit1	Fabia, Fox, Polo

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Dealer stamp