

#BECLEVER



# SENSOR TECHNOLOGY

OUR SMART EXPERT KITS+

FOR A SMOOTH CHANGE



PREMIER

TecDoc®  
DATA SUPPLIER



# VEMO

ELECTRONIC PARTS BY VIEROL

VEMO is the quality brand for high-quality electronic automotive replacement parts. With more than 15,000 VEMO replacement parts, we cover numerous models from European, American and Asian vehicle brands.

We are particularly proud of our range of sensors and switches:

VEMO offers more than 4,000 different replacement parts such as parking sensors, sensors for crankshafts and camshafts, air flow meters, steering column switches, thermal switches and much more. Whether for sensors, switches, small engines, replacement parts for exhaust gas recirculation or products for vehicle inspections – VEMO offers the best quality. We are therefore the perfect alternative to the original part manufacturers.

We offer smart repair kits in the EXPERT KITS+ section – from practitioner to practitioner – thus also helping you to save time. The Q+ seal identifies replacement parts with OEM quality, just like those made by the original equipment manufacturers.

15 experts work every day to expand the range constantly, and to ensure continuous quality improvements for the VEMO products. Clients from numerous countries already trust us – time for you to get to know us too!

## SENSOR TECHNOLOGY

The car's sensor technology has gained considerably in importance in recent years. Sensors in the car work in the background and support the car and the driver.

Vehicle sensors can detect and react to changing conditions inside and outside the vehicle. Whether it is the intelligent triggering of the airbag, the detection of temperature or the measurement of tyre pressure - the number of sensors in modern vehicles will increase significantly in the coming years.

The VEMO range includes rain sensors, light sensors, NOx, exhaust and pressure sensors as well as sensors for comfort and safety functions such as optical sensors and sensors for parking assistance. Each sensor is first and foremost an electronic component and therefore a wearing part. If they fail, car malfunctions are not long in coming. Replacing a sensor usually provides a quick remedy.

Explore the VEMO portfolio and find the right sensor for your application.





# TECH-INFO



## SENSOR, WHEEL SPEED + WHEEL BEARING SET + ABS SENSOR RING

SENSOR, WHEEL SPEED | 21502

### Information

In cooperation with our Experts we constantly collect impulses from your business, the workshop. We transfer these results into optimal repair solutions called EXPERT KITS+.

The current kits contain a vehicle-specific wheel speed sensor and the corresponding wheel bearing kit or an alternative ABS-sensor ring. Not infrequently a defective sensor remains on the wheel bearing or ABS sensor ring itself.

Due to mechanical clearance, blooming corrosion or interruptions in the magnetic ring the air gap between individual components become too small. As a result damage to the wheel speed sensor is a common consequential error. To have this repair comfortable and cost-effective, we combined these products for your optimal repair procedure.



### SYMPTOMS

- Indicator light comes on
- Uncontrolled regulating of driving safety systems
- Spinning wheels at varying road conditions
- Error set in ECU



### REASONS OF FAILURE

- Mechanical damage due to defective wheel bearings
- Heavy soiling and corrosion as result of external influences
- Interruption in ABS sensor ring



### RECOMMENDED BY THE EXPERTS

- Inspection of the single components
- Resistance measurement of passive wheel speed sensors
- Voltage or oscilloscope measurement of active wheel speed sensors



### SENSORS, WHEEL SPEED, WHEEL BEARING KITS AND ABS SENSOR RINGS FROM VEMO

Further products can be found at [www.vierol-shop.de](http://www.vierol-shop.de)

**ABS SENSORS + RING + WHEEL BEARING =**



\* For detailed vehicle information, please refer to the vehicle lists under [www.vierol-shop.de](http://www.vierol-shop.de).

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# WHEEL SPEED SENSORS

## EXPERT KITS+

### The advantages of our EXPERT KITS+

- › ABS sensor ring included
- › Quick and easy repair
- › Perfect solution for the workshop



<b>Audi-VW</b>	A4, Passat 3B
<b>Info</b>	with ABS sensor ring

X-Ref 8D0 927 803 kit2\*

**V10-72-7801**



<b>BMW</b>	1-Series E81, E87
<b>Info</b>	with ABS sensor ring

X-Ref 34 52 6 762 466 kit\*

**V20-72-7800**



<b>Mercedes-Benz</b>	E-Class W211
<b>Info</b>	with ABS sensor ring

X-Ref 211 540 30 17 kit\*

**V30-72-7800**



<b>Mercedes-Benz</b>	C-Class W204
<b>Info</b>	with ABS sensor ring

X-Ref 204 905 01 00 kit\*

**V30-72-7801**

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Brand	Article No.	X-Ref*	Applications
 	V10-72-0924	1J0 927 803	Passat
	V10-72-1051	WHT 003 861	A2, Fox, Polo
	V10-72-1052	WHT 003 860 B	A2, Fox, Polo
	V10-72-1055	WHT 003 857	A3, Altea, Leon, TT
	V10-72-1056	WHT 038 56D	A3, Altea, Leon, TT
	V10-72-1057	WHT 003 859	A3, Altea, Leon, TT
	V10-72-1058	WHT 003 858	A3, Altea, Leon, TT
	V10-72-1071	WHT 003 857 C	Crafter, ID3, Golf 8
	V10-72-1072	WHT 003 856 C	Crafter, ID3, Golf 8
	V10-72-1121	WHT 003 864	Caddy III
	V10-72-1311	WHT 003 859 B	Alhambra, Q3, Touran
	V10-72-1312	WHT 003 858 B	Alhambra, Q3, Touran
	V10-72-1358-1	WHT 003 864 C	Caddy III
	V10-72-7801	8D0 927 803 kit2	A4, Passat 3B
BMW	V20-72-7800	34 52 6 762 466 kit	1-Series E81, E87
FIAT	V24-72-0158	55703974	Grande Punto, Punto
FORD	V25-72-1029	2 268 845	C-Max, Focus II
HYUNDAI	V52-72-0292	91925-1G000	Accent
MERCEDES-BENZ	V30-72-0308	A 639 440 47 06	R171
	V30-72-7800	211 540 30 17 kit	E-Class W211
	V30-72-7801	204 905 01 00 kit	C-Class W204
OPEL	V40-72-0466	13 381 153	Corsa D
PEUGEOT	V42-72-0015	4545.J0	C6
SMART	V30-72-0049	451 540 00 17	Fortwo 451

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## YOUR EXPERT FOR CLOCKSPRINGS

23909

### Function

The clockspring is an important component in the vehicle for establishing a reliable and trouble-free electrical connection between the fixed steering column and the movable steering wheel. Initially developed to transmit the ignition pulse for the driver's airbag, today additional control signals for the horn and steering wheel remote control elements for

the radio, on-board computer, cruise control or driver assistance systems are transmitted via the clockspring.

As the sliding contacts used in older models were too unreliable and prone to faults (especially for the airbag ignition signal), clockspring technology was developed. A special conductive foil is located in a closed

housing and is designed in such a way that it can easily follow the rotary movement of the steering wheel in any direction without being damaged. There are also versions in which sliding contacts are combined with a clockspring. In this case, only the horn is activated via the sliding contact.



### SYMPTOMS

- Failure of the steering wheel controls
- „Airbag“ warning message on the display
- Noises when operating the steering



### REASONS OF FAILURE

- Breakage of the conductor track due to material fatigue
- Defect in the electrical contacts
- Demolition due to incorrect assembly



### RECOMMENDED BY THE EXPERTS

- Switch off ignition
- Follow the vehicle manufacturer's instructions
- Before fitting, the steering wheel must be in the centre position and the wheels in the straight-ahead position
- During installation, make sure that the fixing of the clock spring is not damaged or removed
- Opened clock springs must not be reassembled and fitted. They must always be replaced

### CLOCKSPRING, AIRBAG



**VW** Golf, Tiguan, Touran

X-Ref 1K0 959 653 C\*

**V10-73-0202**

### CLOCKSPRING, AIRBAG



**VW** Golf, Passat, Polo

X-Ref 1H0 959 653 E\*

**V10-72-1248**

### CLOCKSPRING, AIRBAG



**MERCEDES-BENZ** E-Class, G-Class


X-Ref 1A 000 464 05 18 \*

**V30-72-0916**

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# CLOCKSPRING

Brand	Article No.	X-Ref*	Applications
<b>AUDI-VW</b>  	10-72-1529	6Q0 959 653 A	Ibiza, Polo, Transporter
	V10-72-0053	4H0 953 568 K	A6, A7
	V10-72-0066	6R0 959 654	Transporter, Ibiza
	V10-72-0201	5K0 953 569 AS	CC, Passat
	V10-72-1248	1H0 959 653 E	Golf, Passat, Polo
	V10-72-1250	1J0 959 654 BK	New Beetle, Passat, A6
	V10-72-1300	5Q0 953 549 E	Golf, A3, Octavia
	V10-72-1302	1K0 959 653 D	Golf, Jetta, A3
	V10-72-1462	2Q0 959 653	Polo, Fabia
	V10-72-1615	5K0 953 569 AL	A1, Q3, Altea, Eos, Tiguan, Touran
	V10-72-1619	5K0 953 569 AK	Eos, Sharan, Passat
	V10-72-9911	5Q0 953 569 A	Tiguan, Ateca, Octavia
	V10-73-0202	1K0 959 653 C	Golf, Tiguan, Touran
BMW	V20-72-0219	61 31 9 122 509	1er, 3er, X1, X5, X6
MERCEDES-BENZ	V30-72-0743	A 171 464 09 18	E-Class, S-Class, G-Class, M-Class
	V30-72-0916	A 000 464 05 18	E-Class, G-Class
OPEL	V40-72-0074	22 914 039	Adam, Corsa E, Cruze
RENAULT	V46-72-0284	255545857R	Espace, Megane, Scenic
KIA/HYUNDAI	V53-72-0149	93490-2P170	Sorento, i20
	V53-72-0151	93490-2M300	Ceed, Sportage, ix20, ix35
TOYOTA	V70-72-0460	84307-47020	Land Cruiser, Prius, Yaris

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## RAIN SENSOR

23999

### Function

It's too dark, cold and you got a lack of clear vision? Not with the driver assistance system, which automatically supports you in the beginning of your trip.

In case of rain, a transmitter and receiver diode in the sensor helps us. The transmitter diode emits an infrared light which is reflected by the windshield of the vehicle and directed to the receiver diode. When the windshield is dry, the light reaches the receiver completely. The more rain that falls, the less light reaches the receiver and the windshield wiper automatically gives you a clear view.

On the other hand, the light intensity increases or decreases (day, twilight or night), the sensor has additional diodes that measure the incidence of light and thus control the driving light.

If it is too hot or cold in the vehicle, temperature sensors are activated for the solar control on the windscreen, which regulates the air conditioning system to the set comfort level.

Same behaviour with the humidity measurement, which is carried out in the interior at the sensors, where the air conditioner is also activated to regulate if there is too much humidity.

### Comfort by VEMO

VEMO rain sensors do not only have the automatic wiping function, but depending on the equipment type of your vehicle, they also have other functions such as light, solar and humidity.

For the next repair you should choose the VEMO rain sensor.



## HOTSELLER

### VW



**VW** Golf, Passat, Touran

**Info** for vehicles without automatic headlight control

**X-Ref** 1K0 955 559 AH\*

**V10-72-0871**

### VW



**VW** Golf VII, Passat

**Info** with holder

**X-Ref** 5Q0 955 559 C\*



**V10-72-1600**

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# RAIN SENSOR

Brand	Article No.	X-Ref*	Applications
<b>AUDI-VW</b>  	V10-72-0281	5Q0 955 555 A	Enyaq, Passat, Jetta
	V10-72-0871	1K0 955 559 AH	Golf, Passat, Touran
	V10-72-1315	5K7 955 559 B	Golf VI Cabriolet
	V10-72-1600	5Q0 955 559 C	Golf VII, Passat
	V10-72-1601	5Q0955547B	Golf VII
	V10-72-1602	8U0 955 559	A1, A3, A4, Golf, Q5
	V10-72-1603	8U0955559D	A1, A3, Q3, TT
	V10-72-1604	81A955547B	A1, A3, Q3, TT
<b>BMW</b>  	V20-72-0568	61 35 9 877 613	F20, F21, F22, F87
	V20-72-0567	61 35 6 832 975	F20, F21, F22, F87
	V20-72-0569	61 35 9 861 558	F20, F21, F22, F87
	V20-72-0571	61 35 6 832 976	F07, F10, F11, F12
	V20-72-0572	61 35 6 832 977	F07, F10, F11, F12
	V20-72-0570	61 35 6 832 974	F20, F21, F30, F80
<b>HYUNDAI</b>	V52-72-0254	96000-C1000	i20, Sorento
	V52-72-0360	96000 3N500	Kona, Kona Electric
<b>FORD</b>	V25-72-0316	2 500 056	Galaxy, Mandeo
<b>KIA</b>	V53-72-0314	97253G5100	Niro
<b>OPEL</b>	V40-72-0692	84026376	Adam, Corsa
	V40-72-0693	84 149 672	Astra
<b>RENAULT</b>	V46-72-0237	285352976R	Clio, Kangoo
	V46-72-0238	28 53 536 10R	Espace, Kadjar

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## NOx SENSOR

NOX SENSOR, UREA INJECTION | 13304

### Information

As a result of current discussions about correct compliance with emission values for passenger cars and commercial vehicles, one part becomes more and more important: the NOx sensor.

The NOx sensor is a significant component in the complex exhaust system of modern diesel and petrol vehicles. It makes a major contribution to the control and diagnosis of nitrogen oxide reduction, or SCR in short. Typical installation sites are upstream and downstream of the SCR catalytic converter.

Incorrect dosing of reducing additives and deviating exhaust gas compositions are precisely detected by the measuring principle of this sensor. The sensor element records values of the nitrogen oxide content of exhaust gases passing by. These collected values are then processed by the included sensor control unit (SCU) and forwarded to the ECU unit via CAN bus.

The NOx sensor, or nitrogen oxide sensor, is an important part of the exhaust management system.

In case of malfunctions it results in reduced vehicle performance. A corresponding fault memory entry follows and the MIL will light up. Therefore, an immediate replacement of the NOx sensor is necessary to avoid further damages and to ensure the compliance with current and future emission standards.

For a perfect repair, our VEMO NOx sensors offer an accurate measuring value processing and are created for a direct fit.



### SYMPTOMS

- Indicator light comes on
- Increased fuel consumption
- Reduced engine power output
- Absence regeneration of catalytic converter
- Error set in ECU



### REASONS OF FAILURE

- Chemical aging of the sensor element
- Broken cable connection
- Contamination/Overheating



### RECOMMENDED BY THE EXPERTS

- Recording of measured data using a suitable diagnostic device
- Inspection of the components
- Initialise the sensor after successful repair



### NOx SENSOREN FROM VEMO

You can find more articles on [www.vierol-shop.de](http://www.vierol-shop.de)



- Product range for latest applications
- Components in original VEMO quality
- Available from stock



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# NOx SENSOR



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<b>AUDI-VW</b>  	V10-72-0078	059 906 261 F	A6, A7 Sportback
	V10-72-0092	03L 907 807 AF	A4 B8, Passat B8
	V10-72-0100	03L 907 807 AC	CC, Passat B7
	V10-72-0142	04L 907 807 ET	Tiguan II
	V10-72-0159	8R0 907 807 Q	Q5
	V10-72-0164	04L 907 807 AE	Golf 7, T-Roc, Q2
	V10-72-0165	04L 907 807 ED	Arteon, Passat B8
	V10-72-0167	04L 907 807 BP	Golf 7, Passat
	V10-72-0169	04L 907 80 7EE	Arteon, Passat B8
	V10-72-0170	04L 907 807 BQ	Golf 7, Passat B8
	V10-72-0171	04L 907 807 CH	Tiguan, Q3
<b>BMW</b>  	V20-72-0130	11 78 7 587 130	E81/82/87/88
	V20-72-0146	13 62 8 589 846	5 Series, X5, X6
	V20-72-0900	11 78 7 587 129	3-Series, 5-Series
	V20-72-0152	13 62 8 580 410	3-Series, 5-Series
	V20-72-0165	13 62 8 589 844	F15, F20, F30, E70
<b>OPEL</b>	V40-72-0072	55 495 596	Astra K
<b>PEUGEOT</b>  	V42-72-0096	98 211 209 80	208, 308, 2008
	V42-72-0098	98 16 276 480	308, 208, 508
	V42-72-0099	98 21 121 180	5008 II, 3008, Rifter
	V42-72-0097	98 11 207 180	208, 308, 5008

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# NOx SENSOREN LIGHT COMMERCIAL VEHICLES

Brand	Article No.	X-Ref*	Applications
	V10-72-0082	03L 907 807 AB	Crafter
	V10-72-0084	03L 907 807 T	Crafter
	V10-72-0112	04L907807DT	T6
	V10-72-0317	04L 907 807 DQ	Crafter
CHEVROLET	V51-72-0257	12 671 387	Express, Silverado
CITROËN	V22-72-0189	98 21 120 780	Boxer, Jumper
FORD	V25-72-0159	4 326 869	F-650, F-750
	V25-72-0221	2 267 042	Transit Custom
	V42-72-0104	9826410180	508, 3008, Jumpy
	V46-72-0248	22 79 026 82R	Traffic III, Vivaro
	V46-72-0249	22 79 054 33R	Traffic III, Vivaro
	V46-72-0265	22 79 082 65R	Master III, Movano



**VW** T6  
**Info** with control unit and cable

X-Ref 04L907807DT\*

**V10-72-0112**



**VW** Crafter  
**Info** with silicone-coated fibre braid insulation

X-Ref 03L 907 807 AB\*

**V10-72-0082**

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# NOx SENSOREN LKW



Brand	Article No.	X-Ref*	Applications
 	V66-72-0002	2 011 650	CF, XF
	V66-72-0902	2 011 648	XF105, CF75, CF85
	V66-72-0903	2011649	XF105, CF75, CF85
	V66-72-0904	1705572	LF45, LF55, CF65
	V66-72-0905	2006243	XF
	V66-72-0906	1953530	XF
	V66-72-0915	4 326 862	LF
	V66-72-0916	4 326 864	LF
	V66-72-0917	2 006 245	XF
	V66-72-0918	2 006 246	XF
	V27-72-0024	5801754015	EuroCargo, Tector
	V27-72-0025	000 58 01 754 014	EuroCargo, Stralis
	V27-72-0026	58 01 777 219	EuroCargo, Tector
	V27-72-0027	58 01 363 754	Truck
	V27-72-0028	58 017 540 16	Eurocargo
	V66-72-0907	2894943	Peiterbuilt, Int.
	V66-72-0908	2894939	B2, M2, XC, Cascadia
	V66-72-0909	5293295	M2, S2, XC, Vision
	V66-72-0910	4326873	XC, MB, B2, HX
	V66-72-0911	4326874	Peiterbuilt, Int.
	V66-72-0912	4326872	XC, HX, LoneStar
	V66-72-0913	2894944	T800, Vision, 320
	V66-72-0914	3687334	T800, Coronado, FLD
MAN	V34-72-0002	51 15408 0016	TGL, TGM, CLA
	V34-72-0918	51 15408 0015	TGX, TGS, TGA

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# NOx SENSOREN LKW

Brand	Article No.	X-Ref*	Applications
MAN	V34-72-0919	51154080017	Lions City, Jetliner
	V34-72-0920	51154080019	Neoplan
	V34-72-0921	51154080018	TGX, TGS, TGL, TGM
MERCEDES-BENZ 	V31-72-0003	A 010 153 17 28	Arocs, Actros
	V31-72-0904	A 010 153 22 28	Cascadia
	V31-72-0905	A 010 153 23 28	Cascadia
	V31-72-0906	A 009 153 36 28	Actros, Atego
	V31-72-0907	A 008 153 98 28	Actros, Axor
	V31-72-0908	A 010 153 95 28	Actros, Axor
	V31-72-0909	A 011 153 72 28	Actros
	V31-72-0910	A 011 153 74 28	Atego, Actros
	V31-72-0911	A 010 153 14 28	Atego, Actros
	V31-72-0912	A 010 153 15 28	Atego, Actros
	V31-72-0913	A 010 153 16 28	Atego, Econic
	V31-72-0914	A 010 153 20 28	Actros Atego
SCANIA	V60-72-0901	2294290	P, G, R, T
	V60-72-0902	2294291	P, G, R
	V60-72-0903	2296799	P, G, R, T
VOLVO 	V96-72-0902	22303390	VNR, VNL, VNX
	V96-72-0903	22303391	VNR, VNL, VNX
	V96-72-0904	22827993	FL, FE, FH, FM
	V96-72-0905	22827991	FH4, FM4, FL, FE
	V96-72-0906	3 687 930	VNL

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## SENSORS, CRANK/CAMSHAFTS

SENSORS | 11604

### FUNCTION

The camshaft sensor determines the exact position of the crankschaft mechanism and reports it to the engine control unit. The ignition and injection times can therefore be calculated. This information is required for functions such as initiating injection on sequential injection engines, the trigger signal for the magnet valve on pump valve injection systems and for cylinder-specific knock control.

The camshaft sensor works according to the Hall effect and reads the camshaft sprocket. As the ring gear rotates, the sensor head registers the changing Hall voltage and sends it as well as the position of the camshaft to the control unit.



### SYMPTOMS

- Engine control unit operates in the emergency operation, at worst engine stall
- Engine control symbol lights up
- An error code is saved
- Increased fuel consumption



### CAUSES OF FAILURE

- Breakage or mechanical damage to the encoder wheel
- Contacting problems
- Temperature problems
- Internal short circuits
- Line short circuits



### ATTENTION

- The permissible tightening torque is max. 10Nm.
- The sensor is mounted by pushing it in (no slamming).
- There must be no forces acting on the plug or the ribs when using mechanical mounting aids.

## EXPERT KITS+

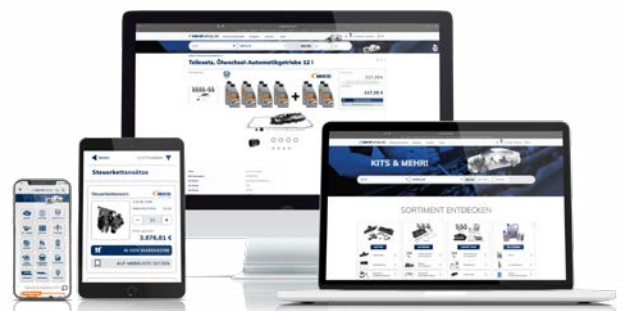
### BMW



BMW	E87, E36, E46, E90
Info	with screw and sealing ring

X-Ref 12 14 7 518 628 kit\*

**V20-72-9001**



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# CAMSHAFT / CRANKSHAFT SENSORS

Brand	Article No.	X-Ref*	Applications
<b>AUDI-VW</b>      	V10-72-0938-1	06A 906 433 C	A3, A4, A6
	V10-72-1002	037 906 433A	Cordoba, Ibiza II
	V10-72-1006	038 957 147 F	A3, Sharan
	V10-72-1007	036 907 601 E	A2, Octavia
	V10-72-1012	030 907 601 E	A2, Fabia
	V10-72-1031	045 957 147 B	A3, Polo, Golf IV
	V10-72-1046	06H 906 433	A3
	V10-72-1108	03D 907 601	Fabia, Fox, Polo
	V10-72-1109	03C 906 433 E	Eos, Golf, Jetta III
	V10-72-1118	07K 907 601 A	A3, Leon, Toledo II
	V10-72-1209	07L 905 163 C	A3, A4, A5, A6, Eos
	V10-72-1229	03L 957 147	A3, A4, A5, A6, Q5, Golf
	V10-72-1244	03G 957 147 B	Caddy, Golf, Passat
	V10-72-1266	070 907 601 A	A8, Touareg, T5
	V10-72-1273	1K0 906 433	Golf, Passat, Polo
	V10-72-1319	04C 907 601 K	A1, A3, A4, A5, A6, A7, A8
	V10-72-1322	070 907 319	T5
	V10-72-1449	05E 907 601 D	A1, A2, A3, A4, A5, A6, Q3, Q5, TT
<b>BMW</b>  	V20-72-0540-1	13 62 7 633 958	E81, E87, E82
	V20-72-0088	13 62 7 803 093	E81, E87, E90, E60, F10
	V20-72-9001	12 14 7 518 628 kit	E87, E36, E46, E90
	V20-72-0505	13 62 7 548 994	E81, E87, E46, E90
	V20-72-0402	12 14 1 703 277	E36
	V20-72-0403	12 14 1 709 616	E36

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# CAMSHAFT / CRANKSHAFT SENSORS

Brand	Article No.	X-Ref*	Applications
BMW	V20-72-0418	12 14 1 720 856	E30, Z1
	V20-72-0471	12 14 7 518 628	E87, E36, E46, E90
	V20-72-0411	12 14 1 703 221	E36
	V20-72-0504	12 14 1 742 185	E39, E38, E31
CHEVROLET	V51-72-0037	96 325 867	Aveo, Matiz, Kalos
	V51-72-0034	96 253 544	Cruze, Kalos, Nubira
DACIA	V46-72-0038	23 73 107 76R	Logan, Sandero
FIAT	V24-72-0035	55242637	Bravo
FORD	V25-72-1182	1830151	C-Max, Fiesta, Focus
	V25-72-0087	1905522	Mondeo, Focus
	V25-72-0004	6740816	Escort V - VII
	V25-72-1049	1811604	Mondeo III, Transit
HONDA	V26-72-0065	37500RAAA01	Civic, Jazz, Accord
	V26-72-0024	37840-RJH-006	Civic VII
HYUNDAI	V52-72-0105-1	39180-2B000	Elantra, i20, ix20
	V52-72-0225	39180-2B020	i20, i30, i40
	V52-72-0156	39350-25010	ix35, Santa Fé
KIA	V53-72-0020	39350-2B030	i30, Ceed, Cerato
MERCEDES-BENZ	V30-72-0119	004 153 69 28	C/W140
	V30-72-0702	005 153 13 28	W168, W203, W210
	V30-72-0714	004 153 96 28	W169, W245, W204
	V30-72-0215	651 905 01 00	W176, W246, W204
	V30-72-0808	276 905 07 00	CL203, R171, W211
	V30-72-0895	006 153 39 28	SMART FORTWO
	V30-72-0720	642 153 07 28	W203, W204, C/A209



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Brand	Article No.	X-Ref*	Applications
MERCEDES-BENZ	V30-72-0108	003 153 01 28	A/C/S/W124
	V30-72-0111-2	003 153 28 28	W163, W168
MINI	V20-72-0115	12 14 1 485 844	C-Cup, Cooper, One
MITSUBISHI	V37-72-0093	M04882526	RS, GS
NISSAN	V38-72-0127	23731-6N21A	Primera, X-Trail
	V38-72-0019	23731-4M506	Armada, Pathfinder
OPEL	V40-72-0618	55566932	Adam, Astra, Corsa
	V40-72-0407	62 38 110	Astra, Corsa, Tigra
	V40-72-0359	62 38 109	Agila, Astra
	V40-72-0591	97321620	Astra H, Astra J
	V40-72-0617	25195551	Astra, Insignia
	V40-72-0369	12 38 938	Astra, Corsa
	V40-72-0615	25195555	Astra, Mokka, Vectra
	V40-72-0412	62 38 282	Astra G, Astra H
RENAULT	V46-72-0036	82 00 285 798	Clio II, Kangoo, Modus
	V46-72-0184	77 01 477 748	Espace, Laguna
	V46-72-0114	82 00 643 171	Clio, Kangoo
	V46-72-0011	82 00 643 171	Clio, Kangoo
	V46-72-0074	82 00 434 068	Megane, Twingo
	V46-72-0016	82 00 688 405	Movano, Vivaro
	V46-72-0020	82 01 040 861	Clio II, Kangoo
SMART	V30-72-0111-1	003 153 27 28	W163, W168
VOLVO	V95-72-0015	8 658 726	C30, S60, V70
	V95-72-0018	30 874 179	S, V40



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# COOLANT TEMPERATURE SENSORS

## EXPERT KITS+

### The advantages of our EXPERT KITS+

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



**Audi-VW** Golf IV, Polo

**Info** with seal

**X-Ref** 000 905 61 02\*

**V10-99-0907**



**Audi-VW** Alhambra, Cordoba

**Info** with seal

**X-Ref** 059 919 501 A kit\*

**V10-72-0955**



**Audi-VW** A1, Ibiza, Fabia, Polo

**Info** with sealing ring and adapter

**X-Ref** 059 919 501\*

**V10-72-1280**



**Mercedes-Benz** W169, W203, W245

**Info**

**X-Ref** 6R0 919 501 kit\*

**V30-72-0034**

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Brand	Article No.	X-Ref*	Applications
AUDI - VW	V10-72-0022	04L 919 501	A3, Golf VII, S3
	V10-72-1361	03F 919 501 B	A1, A3, Q3, Beetle
	V10-72-0912	058 919 501 A	A4, A6
	V10-99-0001	06A 919 501 A	A2, A3, A4, A6
BMW	V20-72-0440	13 62 1 433 076	E36, E46, E39
	V20-72-0441	13 62 1 433 077	E46, E87, E90, E60
	V20-72-0544	13 62 7 797 957	E81, E82, E60, F10
	V20-72-1568	13 62 7 580 635	E82, E88, F20, F21
CITROËN	V22-72-0026	9636777180	Berlingo, C2, C3, C4
FIAT	V24-72-0056	551 90 791	Punto, Stilo, 500
FORD	V25-72-0048	XS6Z 12A648 CA	Cougar, Mondeo
HYUNDAI	V52-72-0007-1	39220-38030	Accent, Getz, Matrix
MERCEDES-BENZ	V30-72-0124	A 000 542 51 18	R129, W163, W168
	V30-72-0125	A 005 153 23 28	W140, W163
	V30-72-0094	203 870 09 51	W168, CL/S/W203
OPEL	V40-72-0332	13 38 511	Astra G
	V40-72-0420	95 515 371	Nissan, Mitsubishi
RENAULT	V46-72-0066	82 00 650 777	Laguna, Megane
	V46-72-0002	22 63 060 24R	Clio II, Vivaro
TOYOTA	V70-72-0003	89422-35010	121, 323, 626, MX-3

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# REVERSE CAMERA

Brand	Article No.	X-Ref*	Applications
AUDI-VW	V15-74-0047	7P6 980 551 C	A8
	V15-74-0044	561 827 566 D 9B9	Passat (3G2, 3G5)
	V15-74-0050	7E0 980 121	T6
BMW	V20-74-0001	66 53 9 240 351	F02/F04, F07, F10, F22
CHRYSLER	V33-74-0018	68274727AC	Grand Cherokee
FORD	V25-74-0021	8L3Z-19G490-C	F150, MARK LT
	V25-74-0035	AR3Z-6344210-BA	Mustang
GENERAL MOTORS	V51-74-0008	20 985 078	Avalanche, Escalade
	V51-74-0053	23 146 157	Silverado, Sierra
	V51-74-0015	22 896 940	Canyon, Colorado
	V51-74-0027	15 173 619	Denali, Escalade, Yuko
	V51-74-0063	23 135 306	Traverse
	V51-74-0009	23 334 084	Camaro
	V51-74-0036	23 323 779	Impala
HONDA	A26-74-0007	39530-T3L-A01	Accord
HYUNDAI	A52-74-0002	95790-2S012	ix35
	A52-74-0001	95760-2W000 kit	Santa Fe
MAZDA	A32-74-0003	K015-67-RC0A	CX-5
MITSUBISHI	A37-74-0014	8781A057	Outlander
SEAT	V15-74-0054	3Q0 980 121 F	Leon



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# AIR MASS SENSOR

Brand	Article No.	X-Ref*	Applications
<b>AUDI-VW</b> 	V10-72-0160	04L 906 461 B	A3 8V, Golf 7, Leon
	V10-72-0953-1	074 906 461	A3, A4
	V10-72-1025-1	028 906 461 part	A3, A4, A6,
	V10-72-1038	074 906 461 BX	A3, A4, A6,
	V10-72-1067-1	038 906 461 B	A3, A4, Octavia
	V10-72-1223	03G 906 461 C	A3, A4, A5, A6, Golf, TT
	V10-72-1274	03L 906 461 A	A1, A3, A4, Q3, Q5
	V10-72-1314	03L 906 461	A1, A3, A4, A5, A6, Q3, Q5
<b>BMW</b>	V20-72-0005	13 62 7 787 076	E38, E39, E46, X5
	V20-72-0007	13 62 7 566 986	E87, E46, E90
	V20-72-0168	13 62 8 570 107	F10, F11, F15, F20
<b>CITROËN</b>	V22-72-0153	96 770 930 80	Berlingo, C3, C4
<b>FORD</b>	V25-72-1189	1 516 668	B-Max, Fiesta VI
	V25-72-0702	CP9Z12B579B	Escape, Focus
<b>MERCEDES-BENZ</b> 	V30-72-0766	645 090 00 48	C117, W222, W205
	V30-72-0876	642 090 82 37	W203, W211/212, W221
	V30-72-0787	651 090 01 48	W204, W207, W212
	V30-72-0765	642 090 17 42	W212, W204, W166
	V30-72-0965	6,4209E+11	W212, W213, W222
<b>OPEL</b>	V40-72-0584	08 36 006	Adam, Ampera, Astra
	V40-72-0583	55 496 973	Corsa D
<b>RENAULT</b>	V46-72-0149	82 00 682 558	Twingo, Scenic
<b>TOYOTA</b>	V70-72-0243	22204-0V020	Auris, Avensis
	V70-72-0061	22204-0D020	Avensis

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# INTAKE MANIFOLD PRESSURE SENSORS

Brand	Article No.	X-Ref*	Applications
ALFA ROMEO	V24-72-0099	55 219 298	Astra, Vectra, Punto
	V10-72-0076	04L 906 051 K	Arteon, Passat, Tiguan
	V10-72-0918-1	06B 906 051	A3, Altea, Arosa
	V10-72-1130-1	038 906 051 D	A3, A4, A6, TT
	V10-72-1279	03C 907 386 E	A3, A4, A6, Q5
	V10-72-1307	038 906 051 T	A3, A4, Golf, Q5
	V10-72-1409	06L906052	A3, A4, A5, A6
	BMW	V20-72-5235	13 62 7 792 260
	V20-72-5288	13 62 8 657 300	E81/82/87/88, E46
	V20-72-0093	13 62 7 804 742	F20, F21, E81, E87
	V20-72-0057-1	13 61 7 787 142	E46, E60, E65, E66
	CHEVROLET	V51-72-0091	12614973
	V24-72-0075	93313154	500, Brava, Bravo
CITROËN	V22-72-0076	96 390 274 80	Berlingo, C2-5, C8
	V22-72-0061	96 393 814 80	C4, C5, Saxo, Xsara
HYUNDAI	V52-72-0151-1	39300-2B100	i10, i30
	V52-72-0229	39200-2F000	H-1, ix35, ix55
MAZDA	V32-72-0093	BP4W-18-211	Miata
MERCEDES-BENZ	V30-72-0054	009 153 22 28	C-Class, E-Class
OPEL	V40-72-0398	12 35 046	Astra, Corsa, Vectra
RENAULT	V46-72-0021	22 36 500 35R	Clio II, Kangoo
	V46-72-0146	22 36 581 43R	Clio, Master, Megane
SUZUKI	V64-72-0035	18590-68H00-000	Swift, SX4, Jimny

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# EXTERIOR TEMPERATURE SENSORS

Brand	Article No.	X-Ref*	Applications
AUDI-WV	V10-72-0956	1J0 919 379 A	A3, Octavia
	V10-72-1114	8Z0 820 535	A4, A6, Altea
	V10-72-1506	8Z0 820 535 B	A1, A3, A4, Tiguan
BMW	V20-72-0061	65816936953	E38, E39, E46,X5, X3
	V20-72-0132	65 81 6 905 133_kit	E38, E39, E46,X5, X3
CITROËN	V22-72-0051	1920.T0	Xsara, Xantia, 106
	V24-72-0055	9 942 901	Punto, Panda, Y
MERCEDES-BENZ	V30-72-0155	007 542 13 18	163, 463, 202, 203, 170
OPEL	V40-72-0324	12 36 284	Astra G
TOYOTA	V70-72-0006	8942406010	Avensis, Camry

## EXPERT KITS+



<b>BMW</b>	E38, E39, E46,X5, X3
<b>Info</b>	with holder, shrink-squeeze connector, cable and one plug
<b>X-Ref</b> 65 81 6 905 133_kit*	<b>V20-72-0132</b>

\* For detailed vehicle information, please refer to the vehicle lists under [www.vierol-shop.de](http://www.vierol-shop.de).

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# LAMBDA SENSORS

Brand	Article No.	X-Ref*	Applications
	V10-76-0015	058 906 265 V	A4, A6, Superb
	V10-76-0029	1K0 998 262 Q	Bora, Golf IV
	V10-76-0044	036 906 262 F	A4, Passat
	V10-76-0075	06A 906 265 AP	A3
	V10-76-0081	03D 906 265 C	Fabia, Ibiza
	V10-76-0088	03C 906 262 T	A3, Altea, Leon
	V10-76-0089	03C 906 262 AA	A3, Altea, Leon
	V10-76-0104	06J 906 262 AA	A3, Eos, Octavia, TT
	V10-76-0130	05E 906 262 A	Golf 7, Polo, Tiguan
	V10-76-0148	04C 906 262 Q	A1, Ibiza, Polo
	V10-76-0154	0 4E9 062 62	A3, Golf, Octavia
BMW	V20-76-0041	11 78 7 548 961	Mini Cooper / S
CITROËN	V22-76-0007	1628.NY	C3, C5, C6, Saxo
FORD	V25-76-0028	1 886 204	C-Max, Focus III
LAND ROVER	V48-76-0005	MHK 501050	
MERCEDES-BENZ	V30-76-0038	003 542 70 18	W/S 204, W/S 211
	V40-76-0038	55563348	Adam, Astra, Corsa
	V40-76-0037	08 55 406	Agila, Astra, Corsa
	V40-76-0033	25198484	Astra H, Astra J
	V40-76-0036	55 562 206	Astra J, Adam, Corsa D
RENAULT	V46-76-0036	22 6A 483 53R	Clio IV
	V46-76-0018	82 00 632 270	Captur, Clio IV

\* For detailed vehicle information, please refer to the vehicle lists under [www.vierol-shop.de](http://www.vierol-shop.de).

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# EXHAUST GAS TEMPERATURE SENSORS

Brand	Article No.	X-Ref*	Applications
AUDI-VW	V10-72-0010	03L 906 088 CC	A3, TT, Leon, Altea
	V10-72-0014	03L 906 088 JG	A3, Octavia
	V10-72-0021	03G 906 088 D	A3, TT, Leon
	V10-72-0096	04L 906 088 JD	Golf 7, Passat, Leon
	V10-72-0105	03L 906 088 EQ	Alhambra, Sharan 7N
	V10-72-0161	03L 906 088 DR	A4, A5, A6, Q5
BMW	V20-72-0143	13 62 7 811 913	3-Series, 5-Series
CITROËN	V22-72-0145	1618.NF	Berlingo, C3, C4, C5
	V22-72-0146	1618.LS	Berlingo, C3, C4, C5
FORD	V25-72-0125	2 135 322	Transit, Ranger
RENAULT	V46-72-0039	22 64 083 67R	Trafic III, Vivaro B
	V46-72-0247	22 64 037 88R	Clio IV, Kangoo

## HOTSELLER



<b>Audi</b>	A4, A5, A6, Q5
<b>Info</b>	Number of poles: 2

X-Ref 03L 906 088 DR\*

**V10-72-0161**



<b>BMW</b>	3-Series, 5-Series
<b>Info</b>	Number of poles: 2

X-Ref 13 62 7 811 913\*

**V20-72-0143**

\* For detailed vehicle information, please refer to the vehicle lists under [www.vierol-shop.de](http://www.vierol-shop.de).

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# PARKING DISTANCE CONTROL SENSORS

Brand	Article No.	X-Ref*	Applications
<b>AUDI-VW</b>  	V10-72-0808	7H0 919 275 C GRU	A6, A8
	V10-72-0809	7H0 919 275 E GRU	A6, T5
	V10-72-0817	420 919 275	A1, A3, A4, A6
	V10-72-0822	3D0 998 275 A	Eos, Golf, Touran
	V10-72-0825	1S0 919 275 C GRU	A4, A5, A6, A8, Polo
	V10-72-0828	5Q0 919 275 B GRU	A3, Golf VII, Leon
<b>BMW</b>  	V20-72-0034	66 20 9 196 705	E81, E87, E82, E88
	V20-72-0035	66 20 2 180 149	E39, E60, E61
	V20-72-0041	66 20 2 220 666	F20, F21, F22, F30
	V20-72-0038	66202180495	E60, E61, E63, E64
	V20-72-5191	66 20 2 180 148	E39, E60, E61
<b>CHRYSLER</b>	V33-72-0067	1EW63TZZAA	Jeep
<b>CITROËN</b>  	V22-72-0086	96 638 215 77	C5 2008-
	V22-72-0085	6590.95	C8
	V24-72-0133	1606904180	Bravo, Ducato
	V22-72-0114	96 752 024 77	C4 Grand Picasso
<b>FORD</b>	V25-72-0100	2018396	Fiesta, Focus, Kuga
<b>MERCEDES-BENZ</b>	V30-72-0022	212 542 00 18	W169, C207, W212
	V30-72-0024	001 542 74 18	W203, W164, R171
	V30-72-0021	221 542 04 17	W204, W211, W221
<b>OPEL</b>	V40-72-0490	39006734	Astra J, Insignia
	V40-72-0579	39006749	Astra J
<b>VOLVO</b>	V95-72-0063	30765108	C70, S40, V50, S60
	V95-72-0065	31445162	C30, S60, S80, V40

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# SENSOR, ADAPTIVE CRUISE CONTROL

## ADVANTAGES OF ADAPTIVE CRUISE CONTROL

**Safety:** ACC helps to prevent rear-end collisions by automatically reducing speed when the vehicle in front slows down.

**Comfort:** Drivers can relax on longer journeys as the system automatically controls and adjusts the speed.

**Efficiency:** By adapting the speed to the traffic, ACC can help to optimise fuel consumption.



<b>Audi</b>	A3
<b>Seat</b>	Leon, Toledo
<b>Škoda</b>	Fabia, Octavia
<b>VW</b>	e-Golf, Golf
<b>Info</b>	Control unit/software must be taught/updated

X-Ref 5Q0 907 561 F part\*

**V10-72-0332-1**



<b>Seat</b>	Ateca
<b>Škoda</b>	Fabia, Karoq, Kodiaq, Kamiq
<b>VW</b>	Arteon, Polo, T-Cross, Tiguan, T-Roc
<b>Info</b>	Control unit/software must be taught/updated

X-Ref 2Q0 907 561 G\*

**V10-72-0369**



<b>Audi</b>	A3
<b>Seat</b>	Leon
<b>Škoda</b>	Octavia
<b>VW</b>	Golf, Caddy, Transporter
<b>Info</b>	Control unit/software must be taught/updated

X-Ref 5WA 907 572 B\*

**V10-72-0370**



<b>Tesla</b>	Model S
<b>Info</b>	Control unit/software must be taught/updated

X-Ref 1108647-00-D\*

**V58-72-0034**

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## SENSOR, XENON LIGHT – HEADLIGHT RANGE ADJUSTMENT

SENSORS | 10103

### Function

A basic distinction is made between manual and automatic headlight range adjustment.

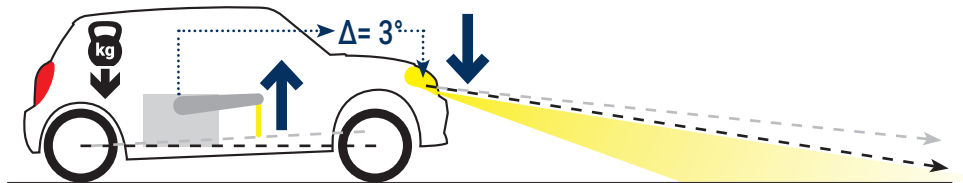
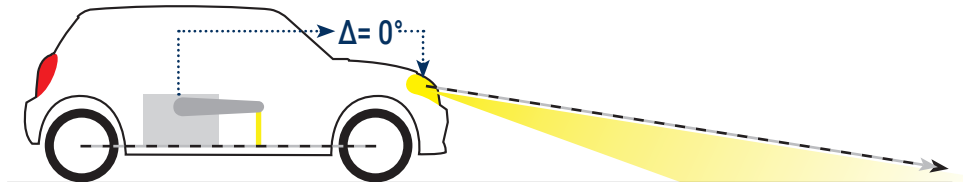
In manual LWR, the control is done by the driver himself.

Automatic LWR is divided into dynamic and quasistatic. The dynamic LWR is mainly installed in vehicles equipped with xenon headlights. This reacts to the different loading conditions in the vehicle as well as to changes in inclination caused by driving, such as acceleration and braking.

In the quasi-static LWR system, a control unit evaluates the data from the front and rear axle sensors, compares these with the stored target data and, if necessary, controls the servomotors on the headlights accordingly.

### Advantages of automatic and quasi-static headlight range adjustment:

- Better road illumination
- less or no glare from oncoming traffic
- independent automatic headlight range adjustment



### REASONS FOR FAILURE

- Servomotors on the headlights defective
- LWR sensor for the vehicle level defective
- Control unit has been replaced and not coded
- Headlights have not been adjusted (default setting)
- Control unit defective
- Interrupted data line
- No supply voltage
- Mechanical damage



### RECOMMENDED BY THE EXPERTS

- Annual inspection of all components belonging to LWR
- With manual LWR, regularly actuate the adjuster with the lighting switched on
- When replacing a light fitting, always check whether it has been installed correctly



### SENSOR, XENON LIGHT (HEADLIGHT RANGE ADJUSTMENT)

You can find the entire range at [www.vierol-shop.de](http://www.vierol-shop.de)


- **extensive range:** for the latest applications worldwide
- **iSP film:** securely packed in iSP antistatic packaging film
- **tested quality:** many sensors in Q+ quality



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# HEADLIGHT LEVELLING

Brand	Article No.	X-Ref*	Applications
	V10-72-0055	3Q0 412 521 A	Arteon, Passat B8
	V10-72-0057	4H0 941 285 G	A6 C7, A7, A8
	V10-72-0058	4H0 941 286 G	A6 C7, A7, A8
	V10-72-0126	5Q0 512 521 J	A3, Golf 7
	V10-72-0152	1K0 941 274 C	A3 8P, Leon, Golf 5
	V10-72-0153	1K0 941 273 L	Golf 5/6, A3 8P
	V10-72-0154	4H0 941 285 H	A6 C7, A7
	V10-72-0177	7N0 941 273	Passat, Sharan 7N
	V10-72-0178	5Q0 412 521 C	Golf 7, A3 8V, T-Roc
	V10-72-0807	4B0 907 503 A	A3, A4, A6, A8, TT
	V10-72-1616	3C0 412 521 B	Caddy, Eos, Q3
	V10-72-1618	3C0 412 522 B	Golf 6, Passat, Tiguan
JEEP	V33-72-0209	68164092AB	Grand Cherokee
BMW	V20-72-0480	37 14 6 784 696	E46, E39, E60/61
	V20-72-0546-1	37 14 6 784 697	E46, E39, E60, E65
	V20-72-0545-1	37 14 6 853 753	E81, E87, E84, E90, E91
LAND ROVER	V48-72-0087	LR020627	Range Rover III
	V48-72-0086	LR020626	Range Rover III
MERCEDES-BENZ	V30-72-0173	010 542 77 17	W/S 211, W/S 202
	V30-72-0025	010 542 76 17	W211, W220, Vito
	V30-72-0786	004 542 99 18	W117, W156, W166
VOLVO	V95-72-0062	31 300 198	S60, S80, V70

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# ROTOR POSITION SENSORS

Brand	Article No.	X-Ref*	Applications
AUDI-VW	V10-72-0343	ODK 907 125 D	A6, A7, Q5
	V10-72-0344	0EH 907 125 C	ID.3, ID.4, ID.5
BMW	V20-72-0230	12 37 1 022 199	iX, i4



You can also find more articles and information about Green Mobility Solutions on our blog at:  
[www.vierol-shop.de](http://www.vierol-shop.de)

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