

TOOLS X

CP4 PUMP







PULLERS













AE0233-CP4 PULLER FOR PUMP CP4 ON BMW SERIE 1

AE0298-CP4 PULLER FOR POMP CP4 ON BMW

Engine: B24

AE0290-CP4 PULLER FOR PUMP CP4 ON AUDI

AE0276-CR PULLER FOR PUMP CP4 ON HYUNDAY SANTA FE

With ring-nut 40x1.5mm

AE0286-CP4 PULLER FOR PUMP CP4 ON HYUNDAY SANTE FE and KIA SPORTAGE

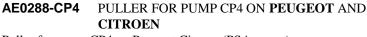
AE0295-CR PULLER FOR PUMP CP4 ON HONDA 1.6











Puller for pump CP4 on Peugeot Citroen (PSA group). To pull out pulley.



AE0299-CP4 PULLER FOR PUMPA CP4 ON LAND ROVER

Engine : JLR 2.0 Ingenium from 2015 on Land Rover Range Rover – Evoque – Discovery – Jaguar F-pace

Engine Code: AJ-200D

204DT

AJ200

204DTD

Similar: JLR-303-1672



AE0308-CP4 PULLER FOR PUMPA CP4 ON MERCEDES – ENGINE 656

Puller to dismantle and assemble pumps CP4 on Mercedes - WITH ENGINE SUPPORT -

Engine code 656





TIMING TOOL KIT



AZ0128-519 TIMING TOOL KIT FOR ENGINE BMW CP4 –N47-

Timing tool kit for BMW engine with pump CP4 with back-rotarycon camshaft

Engine: N47 – N47s (DV20A/B)



AZ0128-54 TIMING TOOL KIT AUDI VW POMPA CP4 – CP1H3

For AUDI Q7 diesel (2006-03>) 3.0 TDI V6 24V TURBO 4X4 171KW Engine code: BUG – Gearshift A6 (2006-03>2009-04)

 $VAG \ 2.7 - 3.0 \ TDI \ V8 + \ 4.0 - 4.2 \ TDI \ V8$



AE0304-CR TOOL TO DISMANTLE THE PULLEY OF COMMON RAIL PUMP VDO ON <u>RANGE ROVER*</u>

For the following models:

DISCOVERY 4 / L319 -	2011, 2012, 2013, 2014, 2015, 2016
Range Rover / L405 -	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020
Range Rover Sport / L320 -	2011, 2012, 2013
Range Rovere Sport / L494 -	2014, 2015, 2016, 2017, 2018, 2019, 2020
XF / X250 -	2011, 2012, 2013, 2014, 2015
XF / X260 -	2016, 2017, 2018, 2019, 2020
XJ / X351 -	2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020
F-PACE / X761 -	2017, 2018, 2019, 2020
VELAR / L560 -	2018, 2019, 2020

* To be used with AE0305-CR Timing-tool to block the pulley of VDO pump.







AE0305-CR	TIMING-TO ON <u>RANGE</u>	OL TO BLOCK THE PULLEY OF VDO COMMON RAIL PUMP ROVER*
For the following		
DISCOVERY 4 / L3	319 -	2011, 2012, 2013, 2014, 2015, 2016
Range Rover / L4	- 05	2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020
Range Rover Sport / L320 -		2011, 2012, 2013
Range Rovere Sp	ort / L494 -	2014, 2015, 2016, 2017, 2018, 2019, 2020
XF / X250	-	2011, 2012, 2013, 2014, 2015
XF / X260	-	2016, 2017, 2018, 2019, 2020
XJ / X351	-	2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020
F-PACE / X761	-	2017, 2018, 2019, 2020
VELAR / L560	-	2018, 2019, 2020
* To be used with	h AE0304-CR	tool to dismantle the pulley.





PUMP DISASSEMBLY



AE0300-CP4 PULLER TO EXTRACT FLANGE ON PUMP CP4





AC0532-CP4 WRENCH TO UNLOCK JOINT OF PUMP CP4

Wrench to unlock the joint of pump CP4. Similar: 0.986.610.980



AE0301-CP4 PULLER FOR JOINT WITH 2 TEETH

Puller for joint with 2 teeth on pump CP4. Similar: 0.986.613.585





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AC0530-CP4 WRENCH TO DISASSEMBLE VALVE ON PUMP CP4

WRENCH FOR JOINT OF PUMP CP4 ON AUDI



AC0531-CP4









AE0303-CP4KIT KIT WITH PULLER AND INSERTER FOR BACK-LEAK PIPE ON CP4 PUMP

On CP4 pumps, that haven't got overflow valve, during the inspection, it is required to extract and wash the filter-valve located under the back-leak pipe of the pump, in order to avoid obstructing the valve and breaking the pump again.

The kit consists of the following parts:

AE0268-CR	Puller kit for diesel-inlet-pipe on CP1/CP1H
AE0303-CP4	Adaptor for CP4 pump for AE0268-CR
AAZ034-45	Pliers to extract the filter-valve
AAZ034-44CP4	Adaptor to wash the filter-valve
AAZ034-43CP4	Inserter for back-leak pipe on the pump





TOOLS FOR ZME VALVE



AE0291-CP4 PULLER FOR PRESSURE REGULATOR

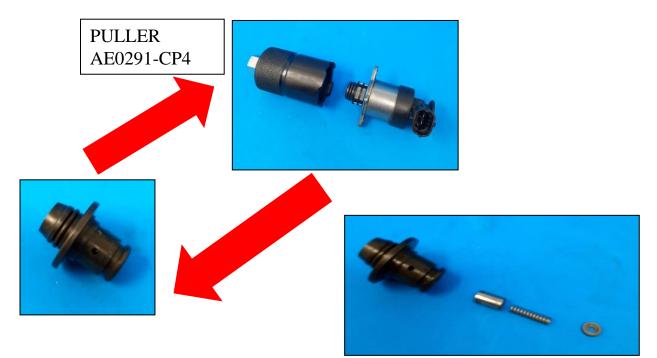
Puller to extract the inner valve inside the pressure regulator on pump CP4



AZ0084-CP4

KIT OF TOOLS TO OPEN THE INNER-VALVE OF THE ZME. THE TOOLS PERMITS TO OPEN THE INNER-VALVE AND TO ASSEMBLE AGAIN WHEN YOU OPEN IT YOU MUST CLEAN IT

To disassemble the inner-valve from the body of the complete valve ZME you must use our tool AE0291-CP4. (not sold with this kit)



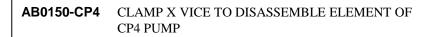


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TOOLS FOR ELEMENTS





Clamp to fix on a vice element of CP4 pump.

Similar: 0.986.610.691



AC0536-CP4 FEMALE TORX WRENCH OF 14

Female Torx wrench 14mm to disassamble elements of CP4 pump.

With connection for torque wrench.





AC0553-CP4 TORX WRENCH T40 LONG TO DISMANTLE ELEMENT OF CP4 PUMP

Torx wrench T40 long to dismantle element of pump CP4.



AC0554-CP4 TORX WRENCH T45 LONG TO DISMANTLE ELEMENT OF CP4 PUMP

Torx wrench T45 long to dismantle element of pump CP4.







AC0538-CP4 WRENCH TO DISASSEMBLE PRESSURE REGULATEUR PLACED ON THE ELEMENT OF CP4 PUMPS

Octagonal wrench with connection 1/2''

To dismantle pressure regulator (ZMEvalve) directly placed on the element of new Bosch CP4 pumps.







AZ0085-CP4

Kit to clean the outgoing-valve of the element of CP4 pump





During the test on the test bench of a CP4 pump just repaired, sometimes, you will run into some quantity problems. In this case, it is necessary, to clean the outgoing-valve of the element.

Our kit AZ0085-CP4 includes all the tools needed to extract and to insert again the valve after the cleaning, in a easy and fast way.



BK0042-CP4 Little bush





AZ0086-CP4 KIT TO CLEAN VALVE ON CP4 PUMP'S ELEMENT'S HEAD



AZ0086-CP4

Kit to clean the valve inside the element's head on CP4 pumps. Tool kit consists of:

AZ0086-CP4 -02 - Tool to pull out the valve AZ0086-CP4 -01 - Tool to Assemble – Calibrate the valve The kit allows to open and close the valve to permit the cleaning.

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TOOL TO FIX CAM-SHAFTS

AAZ040-CP4 KIT OF 2 FIXING PLATES FOR CP4 CAMSHAFTS

Kit with nr. 2 plates to fix correctly the cam-shaft inside the pumps CP4

Nr. 1 tool for camshaft cone 25mm Nr. 1 tool for camshaft cone 20mm Similar Bosch: 0.986.613.591 Similar Bosch: 0.986.613.592



If the pump <u>turns left</u> (check on the label of the pump - letter L) insert the tool in horizonal position and turn **45°** <u>clockwise</u> (turn right).

If the pump turns right (check on the label of the pump - letter R) insert the tool in horizonal position and turn 45° counterclockwise (turn left).





TOOL TO FIX CAM-SHAFTS

AAZ062-CP4 PROTECTION TO INSERT OIL-SEAL ON CP4 CAM-SHAFT

Cone-Inserter to protect the oil-seal on CP4 camshaft diam. 20mm. To save oil-seal during the assembly. To avoid risk of oil-seal break.







TOOLS FOR BUSHES



AE0287-CP4 KIT PULLER AND INSERTER FOR BUSHES OF CP4

Kit puller + inserter for bushes of CP4



BB0010-CP4 BUSH FOR COMMON RAIL – CP4-

Bush for pump CP4 with cut Dimension: 26X22X22mm.



BB0011-CP4 BUSH COMMON RAIL – CP4-

Bush for pump CP4 with cut Dimension: 26X22X15mm.



BB0014-CP4 BUSH COMMON RAIL - CP4-

Bush OPEN - CUT for CP4 pump Dimension: 29X25X21mm.





AE0307-CP4 KIT PULLER – INSERTER BUSH INSIDE FLANGE OF CP4 PUMPS



AE0307-CP4 KIT PULLER & INSERTER OF BUSH INSIDE FLANGE OF CP4 PUMPS

Kit consistes of:

- puller(1)
- Inserter(2)
- for bush inside flange of CP4 pumps

Bush BB0018-CP4 (3) –not in the kit-Bush sold individually



BUSH: 29x25x25mm





AE0309-CP4 KIT PULLER – INSERTER BUSH IN «LOW» FLANGE OF CP4 PUMPS



AE0309-CP4

Kit consisting of:

- puller
- inserter

For inner flange bushing in CP4 pumps

Bushing spare: BB0014-CP4 –Not in the kit – Sold individually -





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AAZ039-CP4

KIT OF OIL-SEAL INSERTERS ON FLANGES OF BOSCH CP4 PUMPS





AAZ039-CP4 KIT OF INSERTERS OF OIL-SEALS OF CP4 PUMPS

The kit is composed of:

- AAZ039-696 Inserter for inner oil-seal on flange with 2 oil-seals. Similar 0.986.610.696.
- AAZ039-697 Inserter for outer oil-seal on flange with 2 oil-seals. Similar 0.986.610.697.
- AAZ039-698 Inserter for oil-seal on short flange with 1 oil-seal. Similar 0.986.610.698.
- AAZ039-0M Push-tool
- AAZ039-0C Protection cone for oil-seals.

Bosch CP4 pumps have two different types of flanges, one long with inside two oil-seals and one short with only one oil-seal.

In the photo on the right it is possible to see, starting from left, long flange with inner oil-seal on, then there is always a long flange with outer oil-seal on and finally short flange with oil-seal assembled.





AAZ039-CP4

KIT OF OIL-SEAL INSERTERS ON FLANGES OF BOSCH CP4 PUMPS



To insert the inner oil-seal on a long flange with two oilseals use inserter code AAZ034-696. Insert the oil-seal on its inserter paying attention to fix the oil-seal with its lip looking inside the flange. We suggest to use our push-tool to help the assembly.

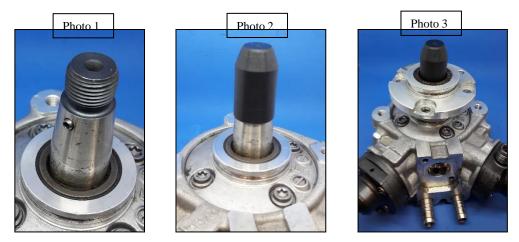
To insert the outer oil-seal on a long flange with two oilseals use inserter code AAZ034-697. Insert the oil-seal on its inserter paying attention to fix the oil-seal with its lip looking outside the flange. We suggest to use our push-tool to help the assembly.





To insert the oil-seal on a short flange use inserter code AAZ034-698. Insert the oil seal on its inserter paying attention to fix the oils-seal with its lip looking inside the flange. We suggest to use our push-tool to help the assembly.

When proceeding with the pump assembly pay attention to not damage the oil-seal with the grain of the camshaft (photo 1); therefore we suggest strongly to use our protection cone code. AAZ039-0C (photo 2 and 3).



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TOOLS FOR OIL-SEALS AND GASKET KIT



AAZ039-CP4 KIT OF INSERTERS FOR OIL-SEALS OF FLANGE OF CP4 PUMP

Kit composed of: Nr. 3 inserters (Similar: 0.986.610.696 -0.986.610.697 – 0.986.610.698) Nr. 1 push-tool Nr. 1 oil-seal protection cone

For long flange with two oil-seals and for short flange with only one oil-seal.



AE0261-CP4 PULLER FOR OIL-SEAL ON PUMP CP4 – SPECIAL -

Oil-Seal diam: 25mm



AAZ034-60 INSERTER FOR O-RING ON FLANGE OF PUMP CP4 DIAM. 50MM





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OIL-SEALS



BK0042-15 OIL-SEAL IN VITON FOR CP4 PUMP – DIAM. 36MM

Oil-seal for CP4 pump Diam. 36 in Viton

BK0042-18 OIL-SEAL IN PTFE VITON FOR CP4 PUMP – DIAM. 36MM – ORIGINAL BOSCH

Oil-seal for CP4 pump Diam. 36 in PTFE - Original Bosch

Code: 1.460.C85.001

BK0042-17 OIL-SEAL IN VITON FOR CP4 PUMP – DIAM. 37MM

Oi-seal for CP4 pump Diam. 37 in Viton

BK0042-16 OIL-SEAL IN PTFE FOR CP4 PUMP – DIAM. 37MM – ORIGINAL BOSCH

Oil-seal for CP4 pump Diam. 37 in PTFE - original Bosch -

Code: F00N202337

FOR CAMSHAFT AND ROLLER SEE CATALOGUE CP4 CAMSHAFT & ROLLER



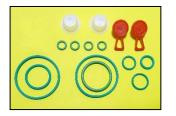


GASKET KIT FOR CP4 PUMP - NR. 1 ELEMENT



BK0042-01 GASKET KIT PUMP CP4 – NR. 1 ELEMENT WITH NR. 1 OIL-SEAL

For pump CP4 similar 0.445.010.506/507/508/530/543/546/563/580/704

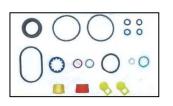


BK0042-11 GASKET KIT POMP CP4 – WITH OIL-SEAL

For CP4 pump with only 1 element.

BK0042-12 GASKET KIT SIMILAR BK0042-11 without oil-seal

Gasket kit similar BK0042-11 but WITHOUT OIL-SEAL. For CP4 pump <u>with only 1 element.</u>







BK0042-22 GASKET KIT PUMP CP4 – NR. 1 ELE WITH NR. 1 OIL-SEAL		
	For CP4 similar:	0.445.010.516/552/

0.986.437.430

BK0042-23 GASKET KIT PUMP CP4 – NR. 1 ELEMENT WITH NR. 1 OIL-SEAL

For CP4 similar: 0.445.010.767/768

BK0042-19 GASKET KIT PUMP CP4 WITH NR. 2 OIL-SEAL

Gasket kit for CP4S Similar:

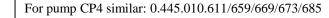
0.445.010.512/525/545/559 0.986.437.437





GASKET KIT FOR CP4 PUMP - NR. 2 ELEMENTS

BK0042-00 GASKET KIT PUMP CP4 – NR. 2 ELEMENTS WITH NR. 2 OIL-SEALS





BK0042-21 GASKET KIT PUMP CP4 – NR. 2 ELEMENTS WITH NR. 2 OIL-SEALS (NR. 1 ORIGINAL BOSCH IN PTFE)

With nr. 1 oil-seal original code 1.460.C85.001

For pump CP4 similar: 0.445.010.611/659/669/673/685

GASKET KIT CP4 SIMILAR BOSCH



BK0042-13 GASKET KIT SIMILAR 1.462.C15.999

Similar: 1.462.C15.999



BK0042-14 GASKET KIT SIMILAR 1.462.C16.997

Similar: 1.462.C16.997





UNIVERSAL FILTERS FOR DIESEL





FILTERS FOR DIESEL FUEL

Special filters with magnet to filter Diesel fuel.

These special filters with magnet allow a more thorough cleaning of the fuel.

In addition to the filter, the magnet attracts any metal residues that do not enter in the high pressure circuit.

It is recommended to place the filter between the fuel-filter and the high-pressure pump.

Codes:

BF0001-06	Filter diam. 8	with magnetic quick connection without valve
BF0001-07	Filter diam. 8	with magnetic quick connection with valve
BF0001-08	Filter diam. 10	with magnetic quick connection without valve
BF0001-09	Filter diam. 12	with magnetic quick connection <u>without</u> valve

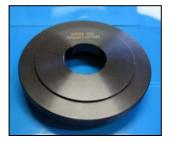


CONTROL AT THE TEST BENCH











AG0025-CP4 COUPLING CONE 25 FOR PUMPS CP4.

Motoring coupling composed of: AG0025-02 + AG0000-CP4 screw for pump CP4

AG0000-CP4 SCREW 18x1.5 X COUPLING CONE 25 x PUMP CP4

AG0022-CP4 COUPLING CONE 22MM X CP4 PUMPS

For Pumps:

 $\begin{array}{c} 0.445.010.530\\ 0.445.010.704\\ 0.445.010.763\end{array}$

Camshaft:

1.466.C06.098

AAE001-CP4 FLANGE FOR PUMP CP4

AAZ034-36 DUMMY PRESSURE REGULATOR CP4







AAZ026-04-CP4 KIT PLATE + NR. 2 CONNECTIONS OF IN & OUT FOR CP4 PUMP AUDI & VW. For pumps similar: 0.445.010.805.





PIPES & CONNECTIONS



AAZ034-CP4 CONNECTION FOR HIGH PRESSURE JOINT OF CP4 PUMP

To use easily pipes with connection 14mm

Female 16x1mm

Male 14x1,5mm

We suggest to by nr. 2 pieces.



AAT703-FXFLEXIBLE HIGH PRESSURE PIPE X CP4 PUMPDimensions:6x2x700mmConnections:12x1,5mm - 16x1mmJoint:shaped 90°



AAT901-CP4	FLEXIBLE HIGH PRESSURE PIPE X CP4 PUMP
Dimensions:	6x2x1000mm
Connections:	16x1,5mm
	16x1mm
For test benches Bosch EPS 708 – EPS 815	





TOOLS FOR PUMP CP4 AZ1000-CP4 TESTER KIT FOR BOSCH PUMP MOD. CP4



AZ1000-CP4

NEW KIT TO TEST ALL COMMON RAIL PUMPS ON THE TEST BENCH UNIQUE FOR CP4

Our AZ1000-CP4 is suitable to test on the test bench (with burette) all kind of common rail pumps now available in the market (Bosch, Delphi, Denso, VDO) included also the new Bosch CP4 pumps currently assembled on millions of vehicles in a fast, precise and easy way.

<u>The decision to develop the kit AZ1000-CP4 has been taken to test CP4</u> <u>pumps with two elements to discern the pressure and the quantity produced</u> <u>by each single element.</u>

With this idea is born the heart of the kit AZ1000-CP4, a **double-rail**; a rail with 2 separeted and independent rooms sold with 2 pressure regulator.





AZ1000-CP4 TESTER TO CHECK CP4 PUMP AT THE TEST BENCH



KIT AZ1000-CP4 COMPONENTS:

- Double-Rail (AZ1001-CP4) [1] with caps and fixing plate (AZ1002-CP4) [8]
- Nr. 2 pressure regulators (BA0008-VDO) [2]
- Nr. 2 digital manometer Made in Italy -2500 bar to check pressure inside the rail [3]
- Nr. 2 flexible high pressure pipes AAT701-FX (lenght 700mm and connections 14x14) [4]
- Nr. 2 adaptors AAZ010-35 (16X1,5F X 14X1,5M) [5] to connect pump to flexible pipes
- Nr. 2,5 mt of rilsan pipe blue diam. 8 (AAT099-CP4) [6]
- Nr. 1 Pwm (power supply) AZ1003-CP4 [7] with temperature sensor
- Nr. 1 Pwm (power supply) AZ1013-CP4 (without temperature) to control ZME valve. It permits
 to check all the ZME valves, also the new ones assembled directly on the element of new CP4
 pumps.
- Nr. 2 adaptors to fix temperature sensor (AZ1012-CP4)
- Nr. 1 double-cable for pressure regulators (AZ1004-CP4)
- Nr. 1 cable for ZME valve (AZ1005-CP4)
- Nr. 1 cable for ZME valve (AZ1006-CP4)
- Nr. 1 cable for suction-control-valve Denso (AZ1007-CP4)
- Nr. 2 cables with alligator clips (1 red + 1 black) AZ1009-CP4 [9]
- •• <u>Optional</u>: Digital Power Supply with continuous adjustment 0-30 Volts–0-10 Amp. (AZ1008-CP4) [10]





AZ1000-CP4 TESTER TO CHECK CP4 PUMP AT THE TEST BENCH



FOR CAMSHAFTS AND ROLLERS ASK FOR CATALOGUE CP4 CAMSHAFTS & ROLLERS

