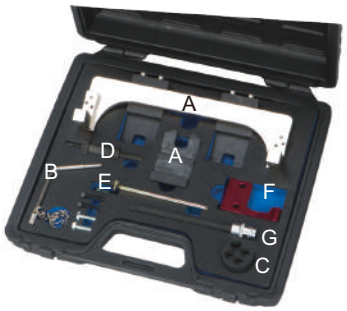
01128937 ENGINE TIMING TOOL KIT FOR BMW B38/B48

The device is intended for the repair and maintenance of BMW engine modifications engine B38, B48.
The tool is serves to secure the distribution of the engine shaft when installing and adjusting the timing of phases.

Item	Discription	OEM No.
A	Camshaft alignment tool	3358122
B	Flywheel/drive plate timing pin	2288380
C	Crankshaft pulley turning tool	116480
D	Timing chain pre-tensioning tool	119340
E	Pin wrench	2360895
F	AT: Drive plate timing pin adapter	2365488
G	T60 Socket wrench	118580



01128939 SETTING/LOCKING TOOL KIT 1.0 ECOBOOST 3 CYLINDER PETROL ENGINE - FORD

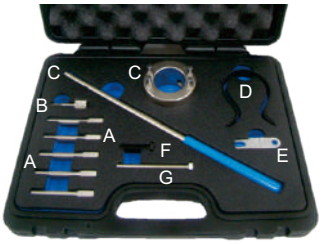
Introduced in 2011, Ford 1.0 turbo, 3 cylinder, Ecoboost (SCTi) petrol engine fits in the various car and light commercial vehicle across Ford range.
The engine features a wet timing belt (belt in oil) that runs between the crankshaft and the twin camshaft VVT sprocket. The timing belt is a conventional arrangement, the exception is being that the belt is encases in the engine and runs in oil in a similar set-up as a chain engine.

Item	Discription	OEM
A	Exhaust/Inlet Camshaft Locking Tool	303-1605/2,303-1605/1
B	Inlet/Exhaust Camshaft adjuster alignment tool	303-1606/1,303-1609/2
C	Crankshaft Setting Pin	303-1604
D	Flywheel Locking Tool	303-1602
E	Tensioner Locking Pin	T10115
F	Crankshaft Pulley Positioning Pin	0132AB,0178C,4527-TS2
G	Installer, Front Cover Seal	303-1603
H	Installer	303-1636
I	Auxiliary Drive Belt Tensioner Locking Pin	T10060/A

01128919 SETTING/LOCKING KIT FOR CIRTOEN/PEUGEOT/RENAULT 3.0 V6

Suitable for setting and locking Renault 3.0 V6 (L7X) engines and Citroen/Peugeot V6 (XFZ) engines (97-01). Kit contains locking pins for camshafts and crankshaft, camshaft holding tool and tensioner tools. Kit also includes timing pin for checking valve timing position.

Item	Description	OEM NO.
A	Crank & Camshaft Locking Pins	MOT 1430 / 0187B
B	Camshaft Timing Test Pin	MOT 1430-01 / 0187 A
C	Camshaft Holding Tool	MOT 1428 / 0187F
D	Timing Belt Retaining Clip	MOT 1436 / C0187J
E	Tensioner Tool	NOT 1429 / C0187E
F	Tensioner Adjusting Bolt (35mm)	M8 x 35mm Locking Screw
G	Tensioner Adjusting Bolt (75mm)	M8 x 70mm Setscrew



01128932 ENGINE TIMING TOOL SET FOR FORD 1.0 GTDI

Introduced in 2011, Ford 1.0 turbo, 3 cylinder, Ecoboost (SCTi) petrol engine fits in the various car and light commercial vehicle across Ford range. The engine features a wet timing belt (belt in oil) that runs between the crankshaft and the twin camshaft VVT sprocket. The timing belt is a conventional arrangement, the exception is being that the belt is encases in the engine and runs in oil in a similar set-up as a chain engine

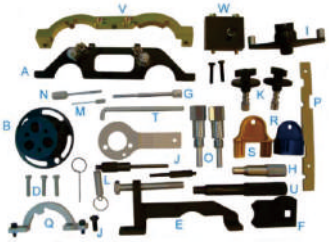
item	Description	OEM NO.
A	Exhaust Camshaft locking tool assembly	303-1605/1,303-1605/2
A	Inlet Camshaft locking tool assembly	303-1606/1,303-1606/2
B	Tensioner pulley locking pin	303-735,303-1277
C	Crankshaft pulley pin	303-1054
D	Flywheel holding tool	303-1602
E	Crankshaft timing pin	303-1604
F	4mm Tensioner Pin (Not for EcoSport)	303-1603
G	8mm Tensioner Pin (EcoSport only)	303-732
H	Oil seal installer	303-1603

01128171 23 PCS TIMING TOOL SET FOR OPEL / VAUXHALL (GM)

Kit consists of Camshaft Locking Tool, Tensioner Locking Pins and Coolant Pump Sprocket Retainer for 2.2 chain drive Vauxhall/Opel engines, these engines are also fitted in Fiat models.

Item	Description	OEM
A	Camshaft Locking Tool	KM 6148
B	Coolant Pump Sprocket Retainer	KM 6148, KM 6077
C	Tensioner Locking Pin	KM 6077
D	M6 x 30 Set Screw (3 per kit)	
E	Timing Disc Position Gauge	KM-954
F	Timing Adjustment Fixture - Wrench	KM-933
G	Injection Pump Locking Pin	KM-927
H	Crankshaft Locking Pin	KM-929
I	Camshaft Setting Tool	KM-932
J	Crankshaft Alignment Tool	EN-46788/1 860 905 000
K	Camshaft Alignment Tool (2)	EN-4671
L	Crankshaft Alignment Pin c/w Retention Spring	EN-46785

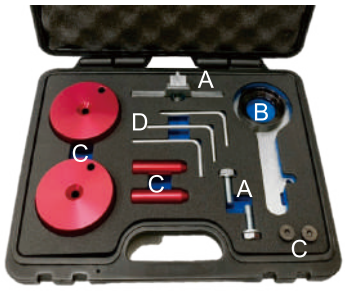
Item	Description	OEM
M	Tensioner Locking Pin	KM-955
N	Tensioning Pin	KM-6130
O	Camshaft Alignment Tool (2)	EN-46781
P	Camshaft Setting Plate	KM-953
Q	Camshaft Sensor Alignment Fixture	KM-954
R	Twin Camshaft Locking Tool (Blue)	KM-852
S	Twin Camshaft Locking Tool (Gold)'	KM-853
T	Flywheel Locking Tool	KM-911
U	Crankshaft Locking Pin	KM-952
V	Camshaft Sensor Locating Tool	EN-49977-100
W	Camshaft Sensor Locating Tool	EN-49977-200



011D8981 ENGINE TIMING TOOL- FORD 2.0D ECOBLUE TDCI

This timing kit has been designed for the latest Ford 2.0D EcoBlue TDCi engine which features an innovative "belt in oil" design where the synchronous drive belt is sited inside the oiled area of the engine.
For High Pressure Fuel Pump pulley removal.

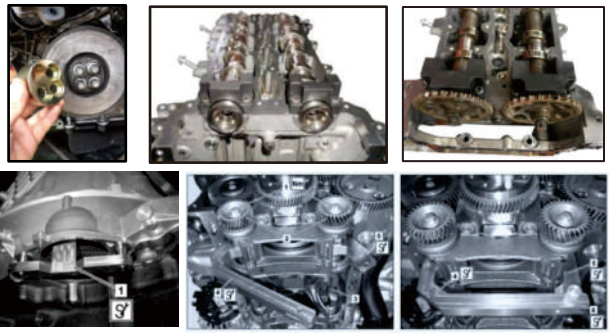
Item	Description	OEM No.
A	Flywheel locking tool	303-1643
B	Crankshaft aligning tool	303-1637
C	Timing belt installation tools	303-1650
D	6 mm drill bit x 3	

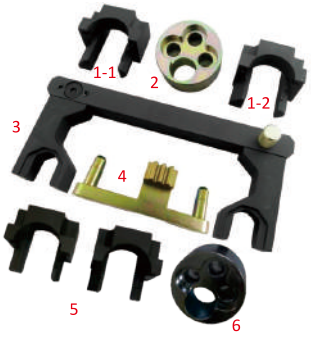


Manufacturer	Model	Year	Type	Engine No.
Ford	Transit Transit Custom Tourneo Custom	2016 Onwards	TDCI	2.0: YLFS, YMFS, YNFS, YLF6, YMF6, YNF6, YLR6, YMR6,YNR6

011063612D MASTER ENGINE TIMING TOOL SET - MERCEDES-BENZ (M651)

FEATURES:
•Fixing of the camshaft to loosen or tighten the mounting bolts for the camshaft sprocket. And used to hold the flywheel gear for removing and installing the crankshaft pulley centre bolt.
•Applications: Mercedes-Benz M651 engine
•OEM Ref : 651 589 01 40 00, 651 589 00 40 00 ,651 589 02 40 00 , 651 589 02 63 00, 651 589 09 40 00 , 651 589 07 40 00



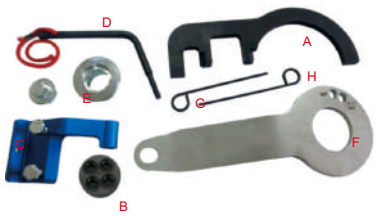


1-1 & 1-2	651 589 01 40 00	Tie-down set (Used before 2012/1/1)
2	651 589 00 40 00	Counterholder
3	651 589 02 63 00	Balance Shaft Tool
4	651 589 02 40 00	Flywheel Locking Tool
5	651 589 09 40 00	Tie-down set (Used after 2012/1/1)
6	651 589 07 40 00	Counterholder

01120122B ENGINE TIMING TOOL SET-BMW(B37/B47/B57)

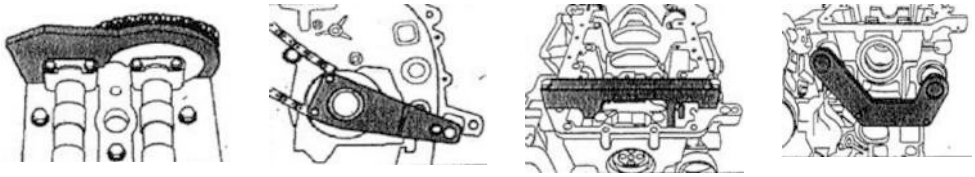
•Used for checking timing chain for elongation and replacing both timing chains.
•Application: BMW (B37/B47/B57)

A	Cam locking tool	118760
B	Crankshaft hub connector	116480
C	Adapter	2365488
D	Locating Stud	2288380
E	High pressure pump extractor	2448914
F	Gauge	2420824
G	Pin (3mm)	113340
H	Pin (4mm)	



011262522 BMW COMBINATION TIMING TOOL SET(N47)

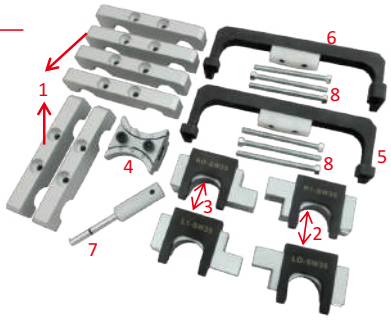
•This set for installing and removing camshaft & variable camshaft timing unit, also for aligning the balance shaft and crankshaft timing position.
•Applicable: BMW N47/N47S/N57 2.0 diesel engines.
•Bm number: 115320, 116480, 118760, 118740, 113340, 114320, 118750, 118790.



011208836 MASIRATI GHIBLI 3.0T STANDARD (3.0 T M156C) ENGINE TIMING TOOL

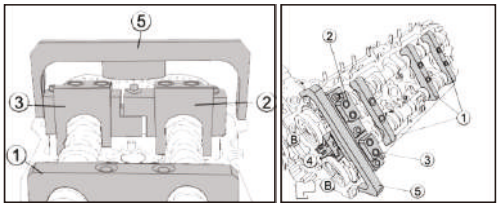
OEM NO.
900028263
Application:
2014-2016 Masirati Ghibli 3.0T Standard (3.0 T M156C)

01120076 BENZ ENGINE TIMING TOOL SET (M177)

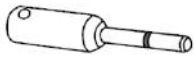


1	Hold-down tool
2	Aligner
3	Aligner
4	Holding device
5	Fix in place
6	Fix in place
7	drift
8	bolt

•Used to fix and align the camshaft in TDC position.
•Applicable: BENZ AMG C63, C63S biturbo 4.0L, V8 petrol engine.
•Applicable engine: M177, M178 from 2015.
•MM number: 177589014000, 1775890001500
Mount hold-down too (1):
During assembly of the screw/ bolts screw in until the bearing bracket lies flat on the hold-down tool(1)
Mount fixer (5)
Insert holding device (4) between camshaft positioners (B) and tighten.
Mount aligner (3.2)



Before assembly of the aligners, the exhaust camshaft and intake comshaft must be in the TDC position so that the aligners can be put in place and mounted without further pressure. The positions of the camshaft must be point upwards before assembly of the aligners.

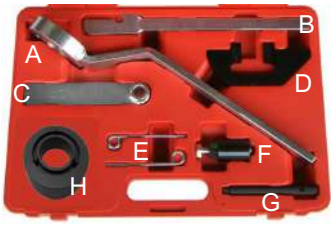


Use special tool to rotate engine at center bolt of crankshaft in the direction of engine rotation through two revolutions and position cylinder 1 at 40 degree after tdc.

01068924 HOLD-DOWN DEVICE - GENUINE MERCEDES-BENZ OEM PARTS

OEM NO. 642-589-04-40-00

01068961 TIMING KIT - BMW, LAND ROVER & VAUXHALL,OPEL



A comprehensive kit designs for setting the camshaft and the crankshaft timing position and suitable for 1.8, 2.0 & 2.5 chain drive diesel engines. Timing chain compressor, timing chain tensioner locking pins, injection pump sprocket puller, injection pump lever and crankshaft holding tool are also included.

Iitem	Discription	OEM
A	Crankshaft Holding Tool	KM 819,11 2 150
B	Timing Chain Compressor	KM 822, 11 3 360, 12-115
C	Injection Pump Lever	KM 826, 13 5 062
D	Camshaft Alignment Tool	KM 811, 11 3 320, 12-112
E	Timing Chain Tensioner Locking Pins	KM 823, 11 3 340,12-172
F	Injector Pump Sprocket Puller	KM 825, 13 5 120, 12-119
G	Flywheel Timing Pin	KM 813, 11 5 120,11 2 300, 12-108
H	Crankshaft counterpart adapter plate	112410

01108926 LOCKING KIT FOR RENAULT

Designed for the locking/positioning of the crankshaft and timing belt tensioner.
Kit also includes tools to stretch/pre-set the tension on the timing belt.
An indispensable tool set when replacing a timing belt or performing an engine repair.

item	Description	OEM NO.
A	Timing Belt Pre-Loading	MOT 1501
B	Locking Pin	MOT1430/KM-6130/09912-46510/KV113B0280/KM-6031/MOT 1054
C	Timing Belt Pre-Tensioning	MOT 1386
D	Locking Pin	MOT 1489
E	Belt Tensioner Wrench with 2 Pins	MOT 1135-1

01108927 TIMING PINS FOR RENAULT DCi /NISSAN

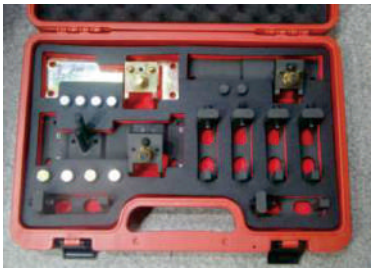
Crankshaft and Camshaft timing pins for Renault 1.5 and 1.9 dCi engines fitted to Laguna, Kangoo and Clio models.

item	Description	OEM NO.
A	Crankshaft Locking Pin	MOT 1489
B	TDC Timing Pin	MOT 1054 / MOT 8661 / MOT 863
C	Camshaft/Crankshaft timing pins	MOT 1430

02T09029Y VOLVO TRUCK TIMING GEAR COVER INSTALLER

Special designed to fix gear cover.
It might cause gear cover leak oil without this tool.
OEM no.: 9998389, 9998601
Applicable : VOLVO TRUCK.

0112567618 FORD TIMING TOOL



780-8929

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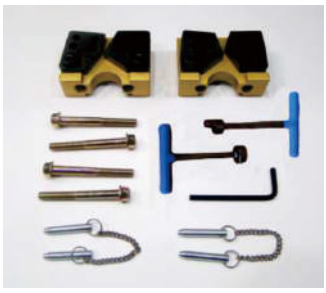
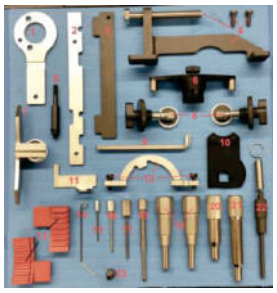


780-8931



780-8940

780-9241

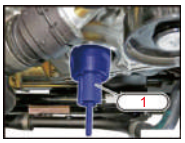
780-8915

110262526 8PC HEAD GASKET ALIGNMENT TOOL(VAG)

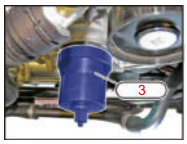
•For vag engines to align the gasket
•These pin allow the mechanic to place the gasket on the block accurately
•Application: beetle 2.0l(1999-2004)
•Oem no.3450(3450-1,3450-2,3450-2a,3450-3)
•Contents:
1pc M6*1.0mm pin extraction tool
1pc M6*1.0mm pin extraction tool (no handle)
2pcs M10*1.5mm long pins
2pcs M9*1.25mm long pins
2pcs M10*1.5mm short pins

01050128 FRONT CRANK RADIAL SHAFT SEAL INSTALLER - BMW (B48B /B47D /B57/B58)

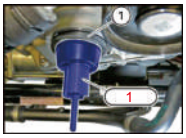
•For installing front crankshaft seal
•Applications : BMW B48B /B47D /B57/B58
•OEM Ref :118 800 (0496127)



Clean special tool NO.1 from the set of special tools 01050128and coat with fresh engine oil.
Secure special tool NO. using special tool NO.2 from the set of special tools 01050128 to the crankshaft.

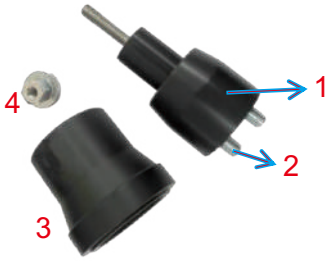


Position the sleeve NO.3 from the set of special tools 01050128 and screw it hand-tight using the nut.



Attention!
Touching the sealing lip (on the inside) of the crankshaft seal is not permitted.
Coating the outside of the crankshaft seal with oil is not permitted.
Carefully slide the crankshaft seal (1) straight and in a rotational movement onto special tool NO. 1 from the set of special tools 01050128 until it is flush with the crankcase.

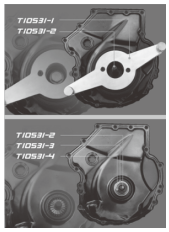
Screw in the sleeve NO.3 from the set of special tools 01050128 into the tool (1) until it is flush in contact with the crankcase.



1	Basic body	0496128
2	Screw	0496129
3	Holding sleeve	0496130
4	Nut	0496131

1001830875 CRANKSHAFT PULLEY ASSEMBLY TOOL SET

OEM Ref. T10531
•Used for dismounting and mounting the crankshaft pulley on 4-cyl. 1.8L / 2.0L 4V TFSI direct injection petrol engine (third generation EA888- timing chain).
•Tools for securing crankshaft pulley. keep everything in time while performing a chain service.



835-C180 UNIVERSAL CAMSHAFT SEAL REMOVER & INSTALLER

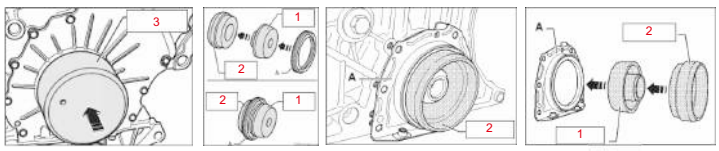
•Allow the crank seal to be replaced without dismantling the crankcase saving you time and costs. Do not worry about scraping the crank surface
•Universal use covering a wide range of cars with oil seals between 27mm and 58mm in diameter.
•The blue seal adapters are made of aluminum to prevent the damage of crank

835-C080 UNIVERSAL CAMSHAFT SEAL REMOVER & INSTALLER

•Use the setup engine oil seal.
•15pc to corresponds the most of vehicles.
•Precision quick change.

01060060A REAR CRANKSHAFT SEAL INSTALLER –VW/ AUDI

•Used when assembling PTFE crankshaft seals on the flywheel end.
•Applications: VW / Audi 1.8L Turbo , 2.0L Turbo (CCTA,CBFA) , 3.0L Supercharged V6(CCAA ,CGXB,CTUB) ,3.2L (BKH) , 4.2L (BNK,BVJ) engines.
•OEM Ref :T10122C



011242102 REAR OIL SEAL INSTALLER SET

This tool is made of plastic.
Applications: Gen III 4.8L, 5.3L, 5.7L, 6.0L, 6.2L and more Supercharged 6.2L V8s will have a 9-bolt rear crankshaft flange due to their performance output.

010609167 OIL SEAL AND WEAR RING INSTALLER

Oil seal and wear ring installer for 5.0 inch diameter seals.
This tool makes the difficult job of correctly installing the rear crankshaft seal and wear ring on most Navistar DT-360 and DT-466 engines thru 1996 an easy task.
Bolt the adapter to the crankshaft and wrench the component home.
Eliminates damage to seals or wear ring that can occur when driving them into place.

01069051V DAF (CF85) CRANKSHAFT REAR OIL SEAL INSTALLER

Specially designed to use on install crankshaft rear oil seal.
Oil seal number: 1876190
Oil seal size: Φ166 xØ191 x 16L
Applicable: DAF CF85 410/460.
Euro 4 and 5

010608249 VOLVO REAR CAMSHAFT SEAL INSTALLER

Comparable to Volvo OEM # 999 5450-5.
Engine Codes: B4164S, B4164S2, B4184S, B4184S10, B4184S2, B4184S3, B4184S9, B4194T, B4194T2, B4204S, B4204S2, B4204T, B4204T2, B4204T2 CVVT, B4204T3, B4204T3 (CA) (US), B4204T4, B4204T5, B5202FS, B5204FS, B5204FT, B5204T2, B5204T3, B5204T4, B5204T5, B5234FS, B5234FT, B5234T2, B5234T3, B5234T4, B5234T5, B5234T6, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S6, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7, B5252FS, B5254FS LH 3.2, B5254FS M 4.3, B5254FS M 4.4, B5254S DENSO, B5254T, B5254T2, B5254T4, B5254T9, B6284T, B6294S, B6294S2, B6294T, B6304FS, B6304FS2, B6304GS, B6304S3, GB5252S.
Power Transmission: tf-80sc AWD. Volvo Model:

Model	Year	Model	Year
850	1991-1996	S80	~2006
960	1990-1998	S90	~1998
C70 Conv	~2005	V40	~2004
C70 Coupe	~2002	V70	~2008
S40	~2004	V70 XC	2001~
S60	~2009	XC70	~2007
S70	~2006	XC90	2003 & up

010609151 DAF(CF 85)CRANKSHAFT FRONT OIL SEAL INSTALLER (35-43TONS)(EURO 4/5)

Use this tool , install the oil seal without damaging the oil seal or parts.
Application:
DAF(CF) 35-42 tons (Euro 4/5) truck.
Oil seal OEM no.: 1684105

01069270 CRANKSHAFT TRIGGER WHEEL INSTALLER JLR

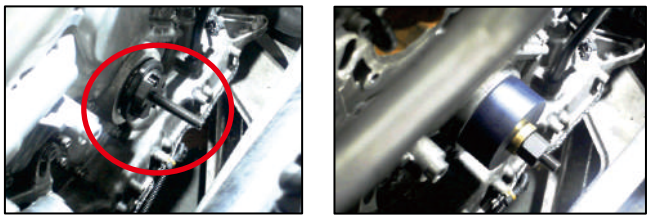
To install the trigger wheel to the rear crankshaft. OEM NO. 303-1130
Land Rover Required to install the crankshaft position Sensor Ring on Discovery 3/4, Range Rover Sport when fitted with TDV6 engine. (3 Powertrain) Jaguar Required to install the Trigger Wheel to the rear crankshaft on X200 S Type, X250 XF, X350 XJ and X351 XJ. (300 powertrain)

01069029R VOLVO (FM) CRANKSHAFT FRONT OIL SEAL INSTALLER

The tool can quickly and easily install oil seals and will not cause improper use of oil leaks, as long as the tool is placed on the crankshaft, hit the handle until the installation is complete.
•OEM ref. no.: 88800021, 9992000
•Application : D16F

0106009P FRONT CRANKSHAFT SEAL INSTALLER-PORSCHE /VW /AUDI

•Used to remove /install radial shaft seal.
•Applications:
Porsche-Cayenne 3.0 TDI
Volkswagen –Touareg (7P5) ,Touareg (7LA ,7L6,7L7) , Phaeton (3D2)
Audi–Q7(4L) ,Q5(8R),A8(4E) ,A6 Avant (4F5 ,C6) ,A6 Allroad (4FH,C6) ,
A5 Sportback(8TA) ,A6 (4F2,C6),A5(8T3),A5 Convertible (8F7),
A4 Avant (8K5,B8),A4 Convertible (8H7,B6,8HE,B7),A4 Avant (8ED,B7) ,
A4 Allroad Wagon (8KH) ,A4(8EC,B7) ,A4(8K2,B8),



Installation

Crankshaft seal
079 103 051 D

01068930 CRANKSHAFT FRONT AND REAR DISASSEMBLY TOOL SET-FOR BMW

Remove and install the front and rear crankshaft oil seals on BMW

item	Description	OEM NO.
A	Thrust Member	11 9 221
B	Screw	11 9 222
C	Screw (6 x)	11 9 223
D	Screw (3 x)	11 9 224
E	Bushing	11 9 231
F	Spindle	11 9 232
G	Nut	11 9 233
H	Screw (3 x)	11 9 234

item	Description	OEM NO.
I	Bushing	11 9 221
I-2	Spindle	11 9 222
J	Bushing	11 9 223
K	Thrust Piece	11 9 224
L	Nut	11 9 231
M	Screw (2 x)	11 9 232
N	Puller	11 9 233
O	Crankshaft rear oil seal	11 9 234

01069037B CRANKSHAFT REAR OIL SEAL INSTALLER (HINO J08C)

•This tool is specially designed for preventing oil seal from damaged when installing it .
•Oil seal genuine no: AZ4079-F.
•Application range: HINO 15 tons / 17 tons

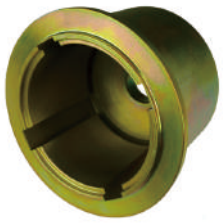
01069011Z CANIA CRANKSHAFT REAR OIL SEAL INSTALLER (P.R)

Special designed to install the crankshaft rear oil seal without damage the oil seal and related parts.
Applicable:
SCANIA (114) 340/360/380, P.R series truck
Seal no.:1433183
Seal size: Ø140 xØ160 x 12L

01069029Z VOLVO (FM12) REAR CRANKSHAFT OIL SEAL INSTALLER TOOL

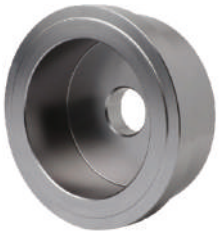
The tool is used to prevent the crankshaft rear oil seal from damage when installing it.
It is very easy to damage oil seal without using this tool.
This tool is used with seal 1543896.
OEM no.: 9990166, 8880013
Application: Volvo FM12 (420.430.440)

01069037C CRANKSHAFT FRONT OIL SEAL INSTALLER (HINO TRUCK)



•This tool is designed for preventing the HINO crankshaft front oil seal from damage when installing it .
•Oil seal genuine no: AH3618-M,BZ5376E.
•Application range: HINO TRUCK , PROFIA K13C-TE350P , 700 series E13C 420P

010618511 CRANKSHAFT SEAL INSTALLATION TOOL - FRONT



For installing the oil seal to front of crankshaft.
Suitable for Audi SQ7 2016~ (8-cyl. common rail 4.0L TDI)
Engine Code: CZAC (EA898)
OEM Ref. T40320/3

01068972 CRANKSHAFT HOLDING &REMOVAL TOOL -FOR VAUXHALL / OPEL 1.0LT & 1.4LT

Introduction:
This item is aCrankshaft Holding & Removal Tool.
Designed to hook securely onto the front crankshaft pulley on the new 1.0lt and 1.4lt petrol Vauxhall/Opel engines to allow the central bolt to be removed and then allow the pulley to be drawn off in a controlled manner.
OEM No.: EN-44226-1. EN-44226-2. EN-44226-5
Applications:
Vauxhall/Opel Karl, Viva, Astra K, 2015 ON.
Engine No.:
Turbo SIDI, Ecoflex, 1.0lt L5Q/B10XE, LWT/B10XL and 1.4lt LV7/B14XE, LE2/B14XHL, LE2/B14XHT.

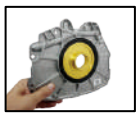
01068289 SEAL INSTALLER - CRANKSHAFT SET

Application: Installing crankshaft PTFE oil seal, 5-cyl. inline engine
OEM NO.: T10117A

010689384 CRANKSHAFT TURNING TOOL - AUDI V6/V8 PETROL ENGINES

Introduction:
Crankshaft turning tool set combines the applications of 2 VAG OEM tools into one kit allowing crankshaft to be turned safely on Audi V6 and V8 petrol engines.
Applications:
Audi A6, A7, A8, RS4, RS5, RS6, RS7, S6, S7, S8 (from approx 2010).
OEM NO.: T40257, T40272
Engine Code:
LXB, CPAA, CHVA, CHNA Plus 4.0L and 4.2L include: CEUA, CEUC, CGTA, CRDB, CTFA, CTGA, CTGE, CWUB, CWUC, DDTA, CFSA.

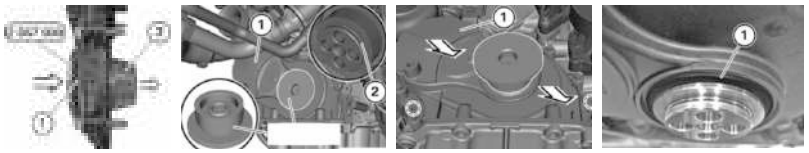
01060066MC FRONT & REAR CRANKSHAFT RADIAL SEALING RING INSTALLER - MERCEDES-BENZ (M133/M270/M642)



FEATURES:
•To install front and rear crankshaft radial seal
•Applications : MERCEDES-BENZ (M133/M270/M642)
•OEM Ref : 642 589 00 14 00,270 589 00 15 00,642 589 00 14 00

01060117B FRONT CRANKSHAFT (AT BOTTOM) TIMING CASE COVER REMOVER / INSTALLER –BMW (B38B)

•Used to detach and attach /replace timing case cover on front at bottom.
•Applications: BMW B38B
•OEM No.: 2357900



01068243A VOLVO FRONT CAMSHAFT SEAL INSTALLER

Tool for installing Volvo Front Camshaft Oil Seal
Comparable to Volvo OEM # 999 5718-5
Engine Codes:
B4184S10, B4184S2, B4184S3, B4184S9, B4194T2, B4204S2, B4204T2, B4204T2 CVVT, B4204T3, B4204T3 (CA) (US), B4204T4, B4204T5, B5202FS, B5204T2, B5204T3, B5204T4, B5204T5, B5204T8, B5204T9, B5234FS, B5234T2, B5234T3, B5234T4, B5234T6, B5234T7, B5234T8, B5234T9, B5244S, B5244S2, B5244S4, B5244S5, B5244S6, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5244T7, B5252FS, B5254S DENSO, B5254T, B5254T10, B5254T11, B5254T12, B5254T14, B5254T2, B5254T3, B5254T4, B5254T5, B5254T6, B5254T7, 5254T8, B5254T9, B6284T, B6294S, B6294S2, B6294T, B6304S3, GB5252S

Model	Year	Model	Year
240	2006 ~	S80	2007 ~
850	2006 ~	S80L	~ 2004
C30	2006 ~	V40	~ 2004
C70	2006 ~	V40	2013 ~
C70	Conv ~ 2005	V40	Cross Country ~ 2000
C70	Coupe ~ 2002	V50	~ 2000
S40	2004 ~ Up	V60	~ 2000
S60	~ 2009	V70	~ 2000
S60	2011~	V70	2008 ~
S60	Cross Country ~2006	XC70	~ 2007
S60L	~ 2006	XC60	2008 ~
S70	~ 2006	XC90	2003 ~
S80	~ 2006		

01068979 CAMSHAFT PULLEY ALIGNMENT PINS - FORD 2.0 DIESEL

OEM 303-1667 (pair)
Applications: Ford C Max from 2015, Edge from 2015, Focus from 2014, Galaxy from 2015, Grand C-Max from 2015, Kuga from 2014, Mondeo from 2014, S-Max from 2015 with DW10F engine

01068986 CAMSHAFT DRIVE CHAIN WEAR INDICATOR - BMW/MINI

OEM No. 2 353 281
Application: Mini Clubman, Club Van, Countryman, Coupe, Paceman and Roadster with 1.4 and 1.6lt engines.

010608298 CAMSHAFT & CRANKSHAFT ALIGNMENT TOOL FOR FORD POWER STROKE DIESEL 6.0L

This tool allows for properly aligning the camshaft with the crankshaft.
1: Insert the tool into the crankshaft pin slots and align the timing mark then bolt it down to the engine.
2: Lower the camshaft with the timing peg inserted into the tool slot.
Engine Application: VT365 - 6.0L Diesel FordMaxx Force 7 - 6.4L Diesel Ford

01060172 CLAMSHELL TIMING SOCKET

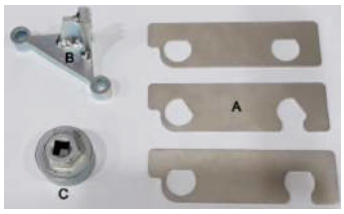
Material: Cr-Mo PH Black finish
Drive:1/2"Dr. 16PT length:30mmL
Operation of the new central screw connection (special profile) on the centring valve of the camshaft timing (BMW and MINI Vanos unit, FORD VCT module)
•Suitable for impact operation in industrial production of the automobile industry
•Extra short design for operation in enclosed spaces in the engine compartment
•Tip: This new screw profile supersedes the old hexagon screw connection, Ä 22 mm

01068274 VARIATOR SOCKET-ALFA ROMEO

This tool enables the safe removal/replacement of the camshaft variator.
Application:
For releasing and replacing the variator on Alfa Romeo vehicle.
Specifically design for Alfa Romeo 145/145 Twin Spark 1.4.
The tool mounts on the inlet camshaft and controls the variable valve timing.

Description	OEM
Variator Socket	1 852 161 000

01068967 CAMSHAFT AND FLYWHEEL FIXED TOOL SET-FOR OPEL INSIGNIA/SAAB 2,8T



Repair valve spring retainer.
Plates are oversized to prevent the valve covers being installed should the tools be accidentally left on the engine
Prevents rotation during timing chain service.
Application: Vauxhall/Opel/Saab/Cadillac/Holden 2.8i, 3.6i V6 engines.

01060935 CRANKSHAFT TURNING/HOLDING KIT

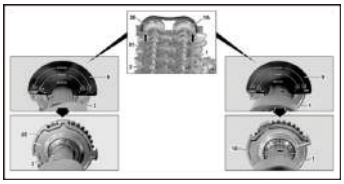
Material: S45C Steel
This is an engine timing support tool for BMW 1.2, 1.5, 2.0 petrol and diesel engines
Additional Information
•Applications: BMW 1,2,3,5 Series (2014-2017), 4, 7 Series (2015-2017), X1, X3, X4 Series (2014-2017), X5 Series (2015-2017), Mini Clubman (2014-2017), Mini Hatch (2015-2017), Mini convertible (2016-2017)
•Engine codes: B37, B38, B47, B48 (1.2L, 1.5L, 2.0L)
•Equivalent to OEM tools: 11 6 480, 11 9 811, 11 9 265, 11 4 180

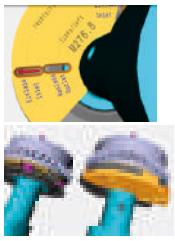
01060935A CRANKSHAFT TURNING/HOLDING KIT-FOR BMW/MINI

OEM No. 11 6 480, 11 9 811, 11 9 265, 11 4 180
Applications: BMW 1,2,3,5 Series (2014-2017), 4, 7 Series (2015-2017), X1, X3, X4 Series (2014-2017), X5 Series (2015-2017), Mini Clubman (2014-2017), Mini Hatch (2015-2017), Mini convertible (2016-2017)

01060077 CAMSHAFT ADJUSTER - MERCEDES-BENZ (M152 / M276 / M278)

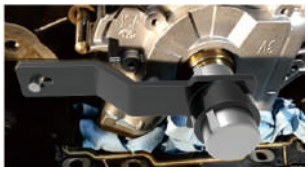
•Used to mark pulse wheel on removed camshaft.
•Applications: Mercedes M152 , M276 , M278
•OEM Ref: 278 589 00 23 00





010607245 FORD CRANKSHAFT POSITIONING TOOL

•These engines are not free-wheeling, and if an engine has "jumped time" it is possible the cylinder heads have to be removed because of damage to the valves or pistons.
•Designed for use on Ford 1993-2012 4.2L,4.6L 2-valve, 4.6L 4-valve, 5.4L V8, and6.8L V10 engines when installing timing chains.



01060014P CAMSHAFT TIMING TOOL SET - PORSCHE 996 , 997

•Used to set camshaft timing.
•Application: Porsche 996 , 997
GT3 (2014)
•OEM Ref : 9661 (Adjusting device) ,9661/1(Holding keys -4pcs)
To set the timing, the respective cylinder side must be positioned to overlapping TDC.
For this purpose, turn the engine at the belt pulley of the crankshaft (in operating direction) until the maximum defection (reversing point) is attained on the dial gauge.
The cams of the 1st cylinder pointtowards each other -Figure 1- ,
the cams of the 4th cylinder point away from each other
(each points towards cylinder head outer wall) -Figure 2-.

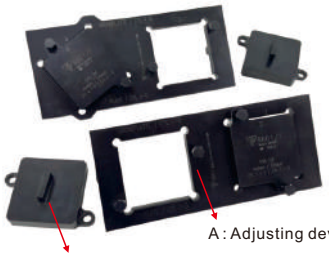


Figure 1: Position of the camshafts on overlapping of cylinder 1
- 1 - Exhaust camshaft
- 2 - Inlet camshaft

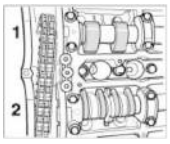
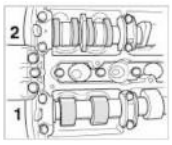
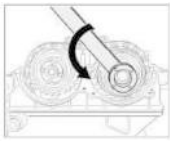
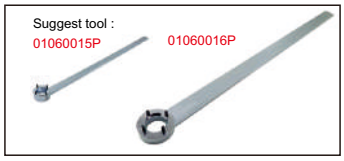


Figure 4.2: Position of the camshafts on overlapping of cylinder 4
-2-Inletcamshaft
-1-Exhaustcamshaft

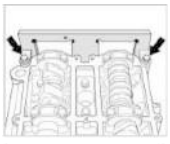


Camshaft adjusting element must be positioned to the left-hand stop!
Use special tool holding wrench 01060015P

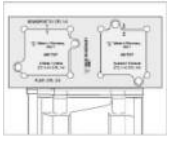




Turn camshaft adjusting element of the inlet camshafts to its left stop.
Use special tool holding wrench 01060015P to turn the actuating element of the inlet camshaft counter-clockwise until it meets the stop.



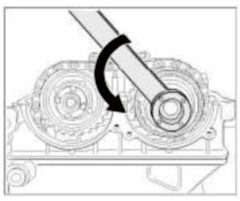
Fit adjustment devices. Use two screws to fasten the frame of both staking tools at the end of the cylinder bank (clutch side) on the sealing surfacefor the valve cover. Tighten screws by hand only. Insert holding keys. Insert the holding keys A/1into the frame according to their identification and then fasten them with two fastening screwsto prevent them from dropping.



Adjustment device of cylinder bank 1 -3

01060015P INLET CAM SPROCKET HOLDING TOOL -PORSCHE

Used to hold camshaft adjuster.
Applications: 911 Turbo (996)
OEM Ref : 9653



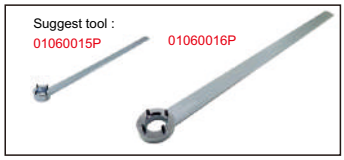
01060016P EXHAUSTCAM SPROCKET HOLDING TOOL -PORSCHE

Used to hold camshaft adjuster.
Applications: 911 Turbo (996)
OEM Ref :9653/1

01018834 CAMSHAFT ADJUSTMENT TOOL T10352C

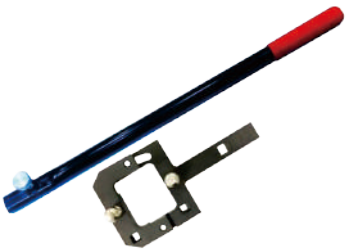
OEM NO: T10352, T10352/1A, T10352/2, T10352/3, T10352/4
Application:
Used for removal and installation of 4/3-way central valve for camshaft adjustment.
Audi A3 with 4-cylinder gas direct injection ,1.8 liter, 2.0 liter ,4v, TFSI engine with chain.

01120010P AUXILIARY CHAIN TENSIONER -PORSCHE



Setting the camshafts (timing)
1) Unscrew camshaft sprockets. To undo the screw connection, the camshaft adjusting elements (inlet shaft) must be countered using special toolholding wrench P0015 and the sprocket wheels (exhaust shaft) must be countered using special tool holding wrench P0016
2) Fit auxiliary chain tensioner for both cylinder banks. Unscrew two hexagon-head bolts M6 on each chain tensioner cover and remove the coverswith the chain tensioner. Subsequently screw on both auxiliary chain tensioners and then apply pretension using the
hexagon-head bolt until the first ring on the piston just disappears from view.
•For tensioning cam chains while adjusting cam timing (set of 2)
•Applications: 993 and 996 GT3
•OEM Ref : 9401

01128942 CRANKSHAFT BALANCER REPLACEMENT-FOR OPEL/VAUXHALL



The use requires the use of a suitable 1/2 "D wrench, breaker bar or power bar.
Designed to adjust to fit the crankshaft pulley so the pulley can be held for safe removal of the fixing bolts. OEM EN-49979.

Manufacturer	Model	Years	Type
Opel / Vauxhall	Adam	2012-2017	Turbo SIDI eco
	Ampera	2011-2015	FLEX LPG
	Astra	2009-2017	S
	Cascada	2013-2017	Turbo E52
	Corsa	2009-2017	Turbo CNG CDTi
	GTC	2015-2017	
	Insignia	2011-2017	
	Meriva-B	2010-2017	
	Mokka	2012-2016	
	Zafira	2011-2017	
Chevrolet	Aveo	2011-2015	
	Cruze	2012-2015	
	Orlando	2012-2015	
	Trax	2013-2015	
	Volt	2012-2014	

01068925 HOLD DOWN DEVICE-FOR MERCEDES-BENZ

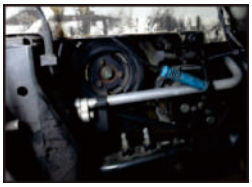
The camshaft is supported by the valve cover.
Be sure to follow the release and tightening order (3 steps 4 + 6 + 9Nm).
The locking device is absolutely necessary in order not to damage the camshaft / cylinder head during rotation of the motor.

Description	OEM
Timing chain to camshaft sprocket holding tool	642589014000

Manufacturer	Model	Year	Engine No.
Mercedes-Benz	M-Class3.0D ML320 CDI	2005-2009	642.940

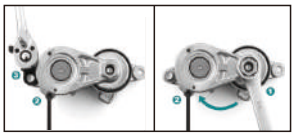
01060018 TIMING BELT PULLEY INSTALLER / REMOVER - MINI COOPER

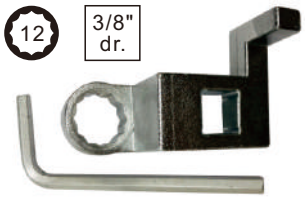
•Special designed to install and extract the crankshaft pulley.
•Applications: BMW MINI COOPER R53/W11



01108261 SUZUKI BELT TENSION ADJUSTER

Specially designed to turn the belt angle and fix the tension.
Applicable: SUZUKI MH35S, MH55S
SM Number: 090017-65020





01125039 BENZ COMPRESSOR BELT PULLEY WRENCH

Special tool for using on removing / installing compressor belt.
Special three point design for suitable using on parts of the vehicles.
Applicable: BENZ M112, M113, M272M, M273.

010618701 BELT TENSIONER WRENCH

・ベルト交換時のテンショナー開放作業に最適です。
・オートテンショナーに多いH17mmに対応しています。
・軽自動車等の非常に狭いエンジンルーム内でも使用可能
とする為に、先端ソケット部の高さを26mmに抑えました。
・ソケット部は二重六角で振り角度を30度で調整できます。
スズキ車
ソリオ Solio / イグニス Ignis / スイフト Swift
のウォーターポンプベルトの交換時にも使用していただけます。

010618518Z CRANKSHAFT PULLEY WRENCH

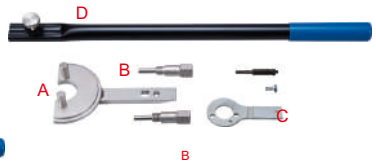
スズキ軽自動車
クランクシャフトプーリーを固定し。
クランクシャフトプーリーボルトの
脱着が行えるセットです。

011208965 DIESEL ENGINESETTING/ LOCKING - FOR VAUXHALL/OPEL/SAAB

Suitable for the timing belt replacement on Vauxhall/Opel and Saab vehicles fitted with 1.9 CDTi/TiD engine. The kit contains the camshaft alignment screw, the crankshaft pulley alignment tool and the tensioner pin.

Manufacturer	Model	Year	Engine No.			
			1.9D CDTi	1.9D TiD	1.9D TTiD	2.0D CDTi/ecoFLEX
Opel / Vauxhall	Astra-H	2004-2011	Z19DT	Z19DT	Z19DTR	LBS/A20DTH
	Astra-J	2010-2012	Z19DTL	Z19DTH		LBS/A20DTR
	Insignia	2008-2012	Z19DTH			LBQ/A20DTL
	Signum	2004-2008	Z19DTJ			LBR/A20DT
	Vectra-C	2004-2008				LBX/A20DTJ
	Zafira-B	2005-2012				LCD/A20DTC
Chevrolet	9-3	2004-2010				
	9-5	2005-2010				

011208965-110



Item	Description	OEM No.
A	Crankshaft Fixing Tool	EN-46788
B	Camshaft Locking Tool	EN-46789
C	Camshaft Sprocket Holding Tool	EN-47634
D	Handle	EN-956-1

846-8071 BENZ CDI PRE-CAMBER SOCKET

•With 1/2" drive , 58T X 60L
Engines 601,602,602.91,603,604,605,606,661,662 .

846-8071A BENZ CDI PRE-CAMBER SOCKET

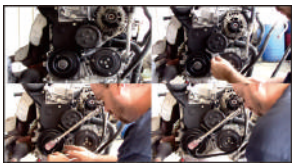
•With 1/2" drive , 58T X 60L
Engines 601,602,602.91,603,604,605,606,661,662 .

011018516 BELT TENSIONER WRENCH (VOLVO)

Used to service the serpentine belt.
Model :240, C30, C70 (06~), C70 Convertible (~05), C70 Coupe (~02), S40 (~04), S40 (04~), S60 (~09), S70, S80 (~06), V40 (~04), V50, V70 (~00), V70 (00~08), V70 XC (~00), V70 XC (01~) / XC70 (~07), XC90 (03~)
Engine: B4194T, B4194T2, B4204T, B4204T2, B4204T2 CVVT, B4204T3, B4204T4, B4204T5, B5204T3, B5204T4, B5204T5, B5234T3, B5234T7, B5234T8, B5244S, B5244S2, B5244S4, B5244S5, B5244S6, B5244S7, B5244SG, B5244SG2, B5244T, B5244T2, B5244T3, B5244T4, B5244T5, B5254T, B5254T2, B5254T3, B5254T4, B5254T7, B5254T9, D5244T, D5244T18, D5244T2, D5244T3, D5244T4, D5244T5, D5244T6, D5244T7

011008201 PROFESSIONAL STRETCH FIT BELT INSTALLATION TOOL

Product description: Specific for V-Ribbed Stretch Belt Installation Tool is used for installing certain V-Ribbed Stretch belts. If the right tool is not used the belt could be damaged. This is the required tool indicated in the installation instructions printed on the inside of each V-Ribbed Stretch Belt sleeve.
Applicable: Ford Micro-V Stretch Fit Installation Tool.



01109029X VOLVO SERPENTINE BELT ADJUST TOOL(FM12)

Specially designed to use on remove and install fan belt when release serpentine.
Applicable: VOLVO FM12 380/420/430.

011017306 HYBRID BELT TENSIONER TOOL (HYUNDAI / KIA)

The tool must be used to compress the stiffer hydraulic tensioner as part of the
Hybrid Starter Generator (HSG) belt removal steps.
Suitable for:
Hyundai sonata / Ioniq
Kia Optima / Niro

01102010 BMW ELASTO BELT INSTALLATION TOOL

OEM Number: 12 3 590/591

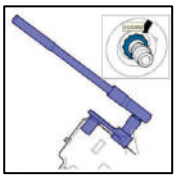
011018808 STRETCH BELT INSTALLATION TOOL (PSA GROUP)

•Used for installing the water pump belt that is a stretch belt and no belt tensioner is used.
•Crank engine at central bolt in direction of rotation until stretch belt is fully guided in water pump pulley.
•Suitable for PSA PureTech 1.0L / 1.2L engine from 2012. (EB inline 3-cylinder petrol)
OEM Ref. EN-52112-2

EB inline 3-cylinder petrol	
Peugeot	108, 208, 308, 408, 2008, 3008, 5008, Partner
Citroen	C1, C3, C3 Picasso, C3 Aircross, C4, D4 Picasso, C4 Cactus, C-Elysee, Berlingo, DS 3, DS 4, DS 4S, DS 5LS
Opel Vauxhall	Crossland X

0112007LR REAR DIFFERENTIAL PINION FLANGE REMOVER-LAND ROVER

To restrain pinion shaft during removal / installation of the securing nut.
Applications:Land RoverLR2 Vehicles
OEM Ref : 205-984



07109029Q VOLVO DIFFERENTIAL SEALING NUT WRENCH

Applicable Model:
XC90, V70 (00-08), V70 XC (01-) / XC70 (-07), S60, 850, S70, V70 (-00), V70 XC (-00), 940, 940 SE, 960, S80 (-06

Make	Model	Year
Volvo	S60	2000-2009
Volvo	S80	1999-2006
Volvo	V70	2000-2008
Volvo	V70 XC	2001-
Volvo	XC70	2002-2007
Volvo	XC90	2000-2008

846-9029F ENGINE CRANK ALIGNMENT VOLVO

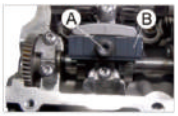
• Allows the engine crank to be manually adjusted • Allows pinpoint accuracy calibration
• Ideal for adjustments to the engine • Adjusting screw in the clutch housing
Application range: Alternatively for 6 or 12 liter VOLVO engines
e.g. engine D9A, D12, D16C.
Genuine Stock : VOLVO 9996956

846-9029F-A TOOL FOR ENGINE FLYWHEEL VOLVO

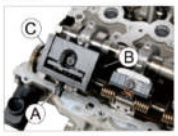
This tool will provide an easier way to manually rotate your D12, D16 engine.

01120105B INTERMEDIATE LEVERS SLIDE BLOCK TOOL-BMW (B38/B48)

FEATURES:
•For positioning the slidingblock.
•Applications:BMW (B38/B48)
•OEM Ref:2 359 089



Mount gate (B) neatly.
Tighten screw (A) hand-tight.
Check that intermediate levers are in correct installation position.



Position special tool 01120105B on cylinder head.
Tighten screw (A) hand-tight
Tighten screw (B),(C)
Fasten screws (A) of gates.
Tightening torque 11 37 1AZ.

Important
Special tool 01120105B must lie flat on the cylinder head.

01120108 INTERMEDIATE LEVERS REMOVER / INSTALLER SET -BMW (S63TU)

•For removing and installingtorsion spring of theintermediate lever.
•Applications: BMW (S63TU)
•OEM Ref: 83 30 2 249 160

01048923 COUNTER SUPPORT WITH SCREW CONNECTION

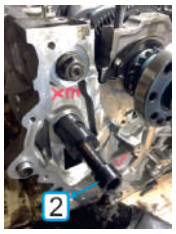
For locking flywheel with transmission removed
Engine Code: M47TU, M54, M57T2, M57TU, N40, N42, N43, N45, N45T, N46, N46T, N51, N52, N53, N54, N62, N73, S85, W17

011218520 REMOVAL TOOL

The T50071 removal tool is a requirement for the reliable, damage-free de-installation of the vibration damper with internal thread. The T50071 removal tool must always be used to separate the vibration damper from the gear wheel of the crankshaft for vehicles in which the vibration damper has and internal thread, in cases where it is not possible to remove said part due to corrosion.
Reference: Transporter 2017> 4-cylinder common rail (2.0-litre, 4V, turbocharger)

01120118 COUNTERBALANCE SHAFT GEAR TOOL -BMW (B46/B48)

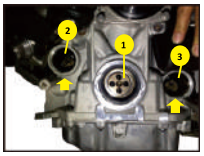
•For the disassembly of the counterbalance shaft gears.
This tool has to be used with 01120116
(balance shaft alignment tool) to replace balance shaft.
•Applications : BMW (B46/ B48)
•OEM NO. : 2361286



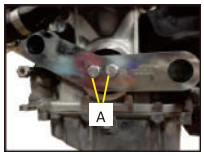
Note : The gears are pressed onto the counterbalance shaft with a taper and can only be detached with the special tool 01120118. Screw the bolt (2) of the special tool 01120118 in to detach the counterbalance shaft from the gear

01120116 BALANCE SHAFT ALIGNMENT TOOL - BMW (N47/B47/B48)

•Special designed to time and lock the crank and balance shaft when replacing the timing chain.
•Applications : BMW (N47D20/B47/B48)
•OEM NO. : 83 30 2 288054



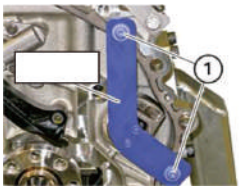
Turn crankshaft (1) to top dead centre until the counterbalance shafts (2 and 3) are facing down with the locating bore (see arrow).



Turn crankshaft until special tool engages in the counterbalance shaft. Secure special tool to the crankshaft with screws (A).

01120120A COUNTERBALANCE SHAFT REMOVER / INSTALLER - BMW (B38)

•Used to remove and install / replace counterbalance shaft.
•Applications : BMW (B38)
•OEM NO. : 2358646 / 2288943



01120110 CRANKSHAFT BALANCER REPLACEMENT- FOR OPEL/VAUXHALL

The use requires the use of a suitable 1/2" D wrench, breaker bar or power bar. Designed to adjust to fit the crankshaft pulley so the pulley can be held for safe removal of the fixing bolts.
OEM EN-49979.

Manufacturer	Model	Years	Type
Opel / Vauxhall	Adam	2012-2017	Turbo SIDI eco
	Ampera	2011-2015	FLEX LPG
	Astra	2009-2017	S
	Cascada	2013-2017	Turbo E52
	Corsa	2009-2017	Turbo CNG CDTi
	GTC	2015-2017	
	Insignia	2011-2017	
	Meriva-B	2010-2017	
	Mokka	2012-2016	
	Zafira	2011-2017	
Chevrolet	Aveo	2011-2015	
	Cruze	2012-2015	
	Orlando	2012-2015	
	Trax	2013-2015	
	Volt	2012-2014	

01049029V FLYWHEEL ROTATING TOOL ALT

Gear for rotating engine flywheel during the timing search
Application: VOLVO
OEM no.ref.: 9998068

010407040 GEAR FOR ENGINE FLYWHEL

Designed to accurately rotate the engine crankshaft on Mercedes & MAN commercial vehicles via flywheel ring gear
Mercedes: 6, 8, 10 cilindri
Modelli: 401, 404, 407, 409 H/HA,
421, 424, 441, 444 A/LA, 427,
429, 4289, 447 H/HA

010407042 GEAR FOR ENGINE FLYWHEEL

Flywheel rotating tool with 3 gear wheels. H : 120 mm Dr. 1/2"
This tool is used to allow precise positioning of the crankshaft for timing purposes.
It can be operated with socket wrenches, open or ring wrenches.
Used on Mercedes trucks models 900 e.g. engines 904 and 906 ACTROS and ATEGO, as well as for all MAN engines.

846-9013I ENGINE CRANK ALIGNMENT

•Allows the engine crank to be manually adjusted
•Allows pinpoint accuracy calibration
•Adjusting screw in the clutch housing
•Ideal for adjustments to the engine
Application range:
Mercedes Benz 6- / 8- and 10-cylinder engines,
MAN 12-cylinder engines, etc.

No. of gears	H mm	□
9	90	1/2"

846-9013J ENGINE CRANK ALIGNMENT

• Allows the engine crank to be manually adjusted
•Allows pinpoint accuracy calibration
•Adjusting screw in the clutch housing
•Ideal for adjustments to the engine
Application range:
Mercedes Benz Actros and Atego,
MAN 5-/6- and 8-cylinder engines - D25/28, etc.

No. of gears	H mm	□
9	120	1/2"

846-9013J-A TWO-WAY EXCHANGE CRANKSHAFT ALIGNMENT TOOL (3 GEARS)

Designed to adjust the engine for correct position,
can use with 1/2" drive wrench.
Application range: Mercedes Benz: Actros, Atego, (Bus)
MAN 5, 6, 8-cylinder engines - D25/28, (Bus)

No. of gears	H mm	□
9	83	1/2"

01049107A GEAR FOR ENGINE FLYWHEEL ROTATION

System for dual gear engine flywheel rotation for IVECO timing search.
Engine models: 8040-25-45 / 8060-25-45 / 8460 / 8260 /8280 / 8210.42 / 190.38 / 190.42.
Specific for Euro Cargo / Cargo Eurotech / Heavyon/ Off Road / Bus 2 gears.

010407044 GEAR FOR ENGINE FLYWHEEL

Codici motore: 8040-25-45, 8060-25-45, 8460, 8260, 8280, 8210.42, 190.38, 190.42
Model: Euro Cargo, Cargo Eurotech, Heavyon, fuoristrada/Bus

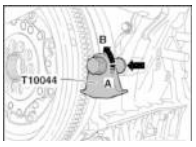
6361-0043T GEAR FOR ENGINE FLYWHEEL ROTATION - IVECO

Introduction:
System for dual gear engine flywheel rotation for IVECO
timing search
Engine models:
8360.46 / F3A / F3B
Specific for Euro Cargo / Cargo 150E27R PR /FPR
320E27T / PT Eurotech / Eurostar
2 gears

010408999 FLYWHEEL LOCKING TOOL - HYUNDAI/KIA

Introduction: Flywheel locking toolfor Hyundai & Kia petrol engines from 2007 to 2018.
Used to lock the flywheel via the starter motor aperture.
OEM No.: 09231-2B100
Application:
Accent, Elantra, i10, i20, i30, i40, ix20, ix35, Santa fe,Tiburon, Tuscon, Veloster
Kia applications from 2007 include: Carens, Cee d, Optima, Picanto, Pro-Cee'd ,Rio, Sedona, Sorento, Soul, Sportage, Venga
Engine codes include: 1.0 G3LA, GELC 1.2, G4LA 1.4, G4LC, G4FA 1.6, G4FC, G4FD, G4FJ 2.0 G4KD, G4KF, G4NC, G4NA, G4ND, G4NE 2.4, G4KE, G4KJ 2.7 G6BA

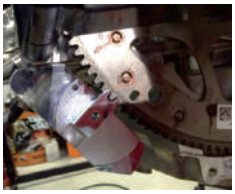
01048913 REMOVING AND INSTALLING FLYWHEEL



This handy tool holds the flywheel from rotating when removing and installing flywheel and clutch bolts. Replaces tool T10044. Also replaces tool 3067. Not recommended for removing or installing crank belt sprocket center bolt. Works great with the 02A, 02J and the 6-Speed transmissions.
Insert the tool into the rear most hold on the engine block (the one that is not threaded).
Secure tool with nut and washer. Rotate tool upwards to catch a flywheel tooth.
Locking flywheel on the 1.4 TSI engine
OEM NO.: T10044

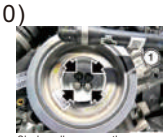
01120119 VIBRATION DAMPER FLYWHEEL REMOVER / INSTALLER -BMW (B38)

•For securing flywheel when releasing and tightening down screw connection of vibration damper.
•Applications : BMW (B38)
•OEM NO. : 0496595 (116130)



Note : The gears are pressed onto the counterbalance shaft with a taper and can only be detached with the special tool 01120118. Screw the bolt (2) of the special tool 01120118 in to detach the counterbalance shaft from the gear.

Release cover (1) from the vibration damper with a screwdriver.


Slacken all screws on the vibration damper (1). Remove vibration damper (1).

Position vibration damper (1). Tighten down all bolts.

Install cover (1) in the vibration damper.

Release screw (2). Release counter support on flywheel gearing. Release screw (1) and remove special tool 01120119.

741-266E CHRYSLER VALVE SPRING COMPRESSOR

Valve spring compressor for Jeep, Dodge & Chrysler 3.7L & 4.7L engines
Services DR, HB, KA, KJ, KK & ND systems
3/8" drive.

741-266F CHRYSLER ROCKER ARM REMOVER & INSTALLER

Services 1999-2013 Jeep, Dodge, Chrysler w/ 3.7L & 4.7L engines
Services DR, DS, HB, HG, KA, KJ, KK, ND, WK & XK systems
3/8" drive. Metal Construction

741-266C VALVE SPRING COMPRESSOR FOR FORD 3V 4.6L & 5.4L

Designed to compress valve springs on a Ford 3V 4.6L & 5.4L.

741-266D FORD VALVE SPRING COMPRESSOR TOOL

Compresses valve springs for quicker, easier camshaft, valve seal, valve spring, or retainer service because you don't have to remove the head from the engine first! It's an OEM-approved tool that you use with a 3/8" ratchet or breaker bar. Works on: 1991-2004 Ford vehicles with 4.6L, two-valve, V8 engines; 4.6 4V, 5.4 V8 and 6.8 V10.

* 303 - Engine : Special Service Tools
* Engine - 5.4L : E-Series : 2008 - 2009
* Engine - 5.4L : Expedition : 2004
* Engine - 5.4L : Navigator : 2004
* Engine - 4.6L (2V) : Crown Victoria : 2004 - 2011
* Engine - 4.6L (2V) : E-150 : 2010 - 2013
* Engine - 4.6L (2V) : E-250 : 2010 - 2013
* Engine - 4.6L (2V) : E-350 : 2010 - 2013
* Engine - 4.6L (2V) : E-450 : 2010 - 2013
* Engine - 4.6L (2V) : E-Series : 2010 - 2011
* Engine - 4.6L (2V) : Explorer : 2004 - 2005
* Engine - 4.6L (2V) : F-150 : 2004 - 2010
* Engine - 4.6L (2V) : Grand Marquis : 2004 - 2011
* Engine - 4.6L (2V) : Marauder : 2004
* Engine - 4.6L (2V) : Mark LT : 2007 - 2008
* Engine - 4.6L (2V) : Mountaineer : 2004 - 2005
* Engine - 4.6L (2V) : Town Car : 2008 - 2011
* Engine - 4.6L (4V) : Crown Victoria : 2004 - 2005
* Engine - 4.6L (4V) : Marauder : 2004
* Engine - 4.6L (4V) : Mustang : 2004
* Engine - 4.6L and 5.4L : E-150 : 2005 - 2009
* Engine - 4.6L and 5.4L : E-250 : 2005 - 2009
* Engine - 4.6L and 5.4L : E-350 : 2005 - 2009
* Engine - 4.6L and 5.4L : E-450 : 2005 - 2009
* Engine - 4.6L : E-Series : 2004 - 2009
* Engine - 4.6L : Expedition : 2004
* Engine - 4.6L : Navigator : 2004
* Engine - 5.4L (2V) : E-150 : 2010 - 2013
* Engine - 5.4L (2V) : E-250 : 2010 - 2013
* Engine - 5.4L (2V) : E-350 : 2010 - 2013
* Engine - 5.4L (2V) : E-450 : 2010 - 2013
* Engine - 5.4L (2V) : E-Series : 2010 - 2011
* Engine - 5.4L (2V) : Excursion : 2004 - 2005
* Engine - 5.4L (2V) : F-250/350/450/550 Super Duty : 2004
* Engine - 5.4L (4V) : Expedition : 2004
* Engine - 5.4L (4V) : Navigator : 2004
* Engine - 5.4L : E-Series : 2004 - 2007
* Engine - 6.8L (2V) : E-150 : 2013
* Engine - 6.8L (2V) : E-250 : 2013
* Engine - 6.8L (2V) : E-350 : 2013
* Engine - 6.8L (2V) : E-450 : 2013
* Engine - 6.8L (2V) : Excursion : 2005
* Engine - 6.8L : E-150 : 2005 - 2012
* Engine - 6.8L : E-250 : 2005 - 2012
* Engine - 6.8L : E-350 : 2005 - 2012
* Engine - 6.8L : E-450 : 2005 - 2012
* Engine - 6.8L : E-Series : 2004 - 2011
* Engine - 6.8L : Excursion : 2004
* Engine - 6.8L : F-250/350/450/550 Super Duty : 2004
* Engine - Mach I 4.6L (4V) : Mustang : 2004
* Engine System : Aviator : 2004 - 2005
* Engine System : Crown Victoria : 2005 - 2007
* Engine System : F-53 Motorhome : 2004
* Engine System : Grand Marquis : 2005 - 2007
* Engine System : GT : 2005 - 2006
* Engine System : Town Car : 2004 - 2007
* Engine : Crown Victoria : 2005 - 2007
* Engine : Ford GT : 2005 - 2006
* Engine : Grand Marquis : 2005 - 2007
* Engine : Town Car : 2005 - 2007

741-266D4 FORD VALVE SPRING COMPRESSOR 4.0,4.6 (WITH VALVE SPRING COMPRESSOR SPACER)

303-581 Ford Valve Spring Compressor for 4.0 SOHC and some 4.6 V8's - Ford p/n T95T-6565-A OTC and Rotunda 303-581. This is for Ford Lincoln or Mercury vehicles with the SOHC 4.0L V6 engines and some 4.6's see below for more details.

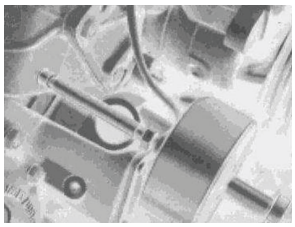
* Engine - 4.0L SOHC : Ranger : 2004 - 2005
* Engine - 4.0L SOHC : Explorer Sport Trac : 2004 - 2005
* Engine - 4.6L (2V) : Mark LT : 2006 - 2008
* Engine - 4.6L (2V) : E-Series : 2010 - 2011
* Engine - 4.6L (2V) : Crown Victoria : 2004 - 2011
* Engine - 4.6L (2V) : F-150 : 2008 - 2010
* Engine - 4.6L (2V) : Mountaineer : 2004 - 2005
* Engine - 4.6L (2V) : Grand Marquis : 2004 - 2011
* Engine - 4.6L (2V) : E-Series : 2010
* Engine - 4.6L : E-Series : 2004 - 2008
* Engine - 4.6L (2V) : Town Car : 2008 - 2011
* Engine - 4.6L (2V) : Explorer : 2005
* Engine - 4.6L (2V) : Marauder : 2004
* Engine - 4.6L (2V) : Mustang : 2004
* Engine - 4.6L (2V) : F-150 : 2009
* Engine - 5.4L (2V) : E-Series : 2010
* Engine - 4.6L (2V) : Crown Victoria : 2010
* Engine - 4.6L (2V) : Crown Victoria : 2009
* Engine - 4.6L (2V) : F-150 : 2007
* Engine - 4.6L (2V) : F-150 : 2006
* Engine - 4.6L (2V) : F-150 : 2004
* Engine - 4.6L (2V) : Explorer : 2004
* Engine - 4.6L (2V) : F-150 : 2005
* Engine - 4.6L (2V) : F-150 : Ford Vehicles
* Engine - 4.6L (2V) : Town Car : Ford Vehicles
* Engine - 4.6L (2V) : Crown Victoria/Grand Marquis : Ford Vehicles
* Engine - 5.4L (2V) : Excursion : 2005
* Engine - 4.6L (4V) : Crown Victoria : 2004
* Engine - 4.6L (4V) : Marauder : 2004
* Engine - 4.6L (4V) : Grand Marquis : 2004
* Engine - 4.6L : E-Series : 2005
* Engine - 4.6L : Navigator : 2004
* Engine - Mach I 4.6L (4V) : Mustang : 2004
* Engine - 4.6L : E-Series : 2009
* Engine - 4.6L : E-Series : 2007
* Engine - 4.6L : Expedition : 2004
* Engine - 5.4L : Expedition : 2004
* Engine - 5.4L : E-Series : 2004 - 2009
* Engine - 6.8L : E-Series : 2004 - 2011
* Engine - 6.8L (2V) : Excursion : 2005
* Engine - 6.8L : Excursion : 2004
* Engine - 6.8L : F-250/350/450/550 Super Duty : 2004
* 303 - Engine : Ford Essential Tools
* Engine - 4.6L : E-Series : 2006
* Engine - 5.4L (2V) : E-Series : 2011
* Engine - 5.4L (2V) : Excursion : 2004
* Engine - 5.4L (4V) : Mustang : 2009
* Engine - 5.4L (4V) : Navigator : 2004
* Engine - 5.4L (4V) : Mustang : 2011
* Engine - 5.4L : Navigator : 2004
* Engine - 5.4L (4V) : Mustang : 2007 - 2010
* Engine - 5.4L (4V) : Expedition : 2004

21125081E WRENCH FOR NATURAL GAS CYLINDER VALVES

Features: Type - 50-Wrench For Natural Gas Valves. Art - 1486. Panda since 2012. New Ypsilon. FIAT

01120064M GUIDE RAIL PIN SLIDE HAMMER PULLER SET-MERCEDES-BENZ & BMW

FEATURES:
•Designed for extracting the rail pins with slide hammer from cylinder head while out of the car.
•Applicable: M102.92/93/93/98, 103, 104, 110/92/98/99, 111,116,117,119,120,150,156,272,275,285,601, 602.91/93/94/96,603.91/93/96/97,602.983,615,616, 617.91/95,606,602.981,612.965,628,640,642
•OEM Ref : 116 589 20 33 00 , 116 589 01 34 00 , 100 589 00 34 00



0112288I HARMONIC BALANCER REMOVER

•This Balancer Remover is suitable for a variety of engines that are fitted with 3 & 6 Spoke Balancers.
•Applicable :
GM V8 Engines : 5.3Litre, 5.7LS1, 6.0 LS2, 6.2 LS3, 7.0 Litre
Ford : Coyote 5.0 Supercharge
Chrysler / Dodge / Jeep : 3.5Litre, 3.7Litre V6, 4.7Litre, 5.7Litre, 6.1Litre

0112288J HARMONIC BALANCER PULLER

•Tool fits securely into cast slots of harmonic balancer enabling easy removal even with radiator in place.
•The only harmonic balancer puller designed for most of 6 cylinder vehicles.

011230101 DIESEL PUMP SPROCKET PULLER (RENAULT / NISSAN / OPEL / VAUXHALL)

•The puller allows the diesel injection pump to be pushed out of the pump sprocket.
•To enable the pump removal without disturbing the timing belt.
•Suitable for Renault / Nissan / Opel / Vauxhall 2.2L / 2.5L diesel engine.
OEM Ref.
Renault MOT 1548
Opel KM-6207

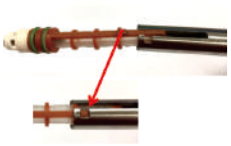
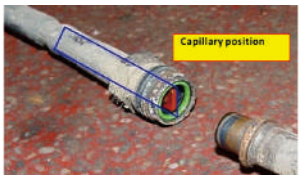
G9T diesel engine -2.2L	
Renault	Master II (1999~2003)
	Espace IV (2001~)
	Laguna II (2002~2006)
	Avantime (2001~2003)
	Vel Satis (2001~2009)
Nissan	Interstar (1999~2003)
	Movano I (1999~2003)
Opel Vauxhall	Movano i (1999~2003)
G9U diesel engine - 2.5L	
Renault	Master II (1999~2003)
	Trafic II (2001~2011)
Nissan	Interstar (1999~2003)
	Primastar (2001~2011)
Opel Vauxhall	Movano I (1999~2003)
	Vivaro (2001~2011)

10068109A HARMONIC BALANCER INSTALLER KIT

Installs harmonic balancers or drive pulleys that are pressed on the crankshaft.
Set includes driving screw, thrust bearing and 12 threaded adapters necessary to work on a wide range of domestic and some import harmonic balancers.
Adapters: M12x1.5, M14x1.5, M16x2.0, 7/16"-20, 1/2"-20, 9/16"-18, 5/8"-18, 3/4"-16
Four long adapters for use on Dodge Hemi, Generation III and IV GM motors, some Ford and some Chrysler.
Extended length adapter: M14x1.5, M16x2.0, M12x1.5, M12x1.75
The 1.75" spacer allows the tool to work more effectively on deep harmonic balancers.

040403075 CAPILLARY EXTRACTOR

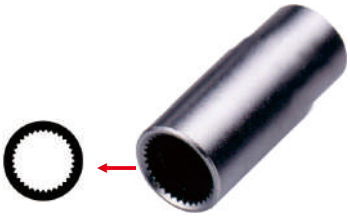
The capillary is removed in the refrigerant tube. Impurities produced by the compressor pass through the capillary and remain on the screen; the contaminated capillary needs to be removed by the capillary extractor. Applicable: GM, Ford, Buick, Chrysler, Chevrolet.

038-0679-34 34 TOOTH SOCKET

Suitable for MAN D28 Diesel engines such as TGA.
This socket is for the removal and installation of the high flow delivery-valve holders found on Diesel injection pumps.

☐ Dr.	Tooth
1/2"	34

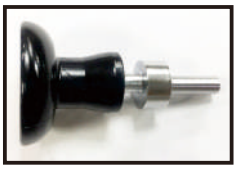


01032023 VALVE SPRING GAUGE-FOR PORSCHE

Spring Loaded Valve Gauge displays valve spring height using pre-calibrated indicators stamped onto the outside surface of this tool. Crucial for accurate valve spring adjustment.
Applicable: Model - 911.
Spring-loaded setting tool with built-in indicator is required for accurate valve timing / valve spring adjustment.

01030933 VALVE LAPPING TOOLS

Material: S45C steel + Rubber
Feature: Special design for powered drill using
•Facilitates the insertion of valves
•Automatic change in direction
•For use with fine grinding paste
•With 8 mm shank for holding in drill machine
•Working speed min. 1000 rpm to max. 1250 rpm
•4 different suction plates in 20, 30, 35 and 40 mm
•13 mm shaft for attaching the suction cups



0306233D WATER PUMP PULLEY REMOVER/INSTALLER

Helps remove and install water pump pulleys faster and easier on specific Ford, Lincoln and Mercury 3.0L DOHC engines.
The puller works on the below vehicles with a Ford 3.0 DOHC engine:
Lincoln MKZ 2007 to 2012
Ford Escape 2001 to 2012
Ford Taurus 2001 to 2005
Ford Fusion 2006 to 2012
Mercury Sable 2001 to 2005
Mercury Mariner/Milan 2006 to 2011

835-1317B UNIVERVALVE SPRING COMPRESSOR KIT

•Can be fix from various parts of the engines, in which in the small work environment.
•Small size, does not take up much any work space,
•Complete service tool kit for installation and removal of valve spring without removing the cylinder head from the engine.

0402534101 SPARK PLUG SOCKET, 14MM BY 12-POINT

- Thin-Wall Socket with 3/8-Inch Square Drive
- Overall Length is 2-1/2-Inches
- Heavy-Duty Construction Ensures Durability

Application to: BMW E90 N 54 Engine 335 i Lim. From Bj. 2006
•RENAULT mode, Twingo, Clio, Kangoo 1.2 l 16V engine
•PEUGEOT 207, 307
•CITROËN C4 with 1.4 and 1.6 liter 16V engine, with 2.0 liters C5 HPi engine
•MERCEDES-BENZ Motor M 156, M 276 engine, Nissan Micra, Note, MINI from 1.2 to 1.4 l 4-cyl. from Bj. 2007

04022037 3/16" DR. 14mm SPARK PLUG SOCKET - LENGTH: 90mm(L)

Length: 90mm(L)
Size: 14mm x 12PT
W/magnetic inside
Thin wall
Suitable for 2007 and later BMW 135, 335, 535 and X6 with 3.0L twin-turbo motors.
Also works on 2007 and newer Turbocharged Mini Coopers.
BMW E90 N54 Motor 335i Lim.Ab.Bj .2006.
Renault Modus Twingo, Clio, Kangoo 1, 2 l 16V Motor, Peugeot 207, 307 Citroen C5, 2.0i , HPi-Motor,Mercedes-Benz Motor M156 ,NISSAN Micra.

04029035 VW/AUDI SPARK PLUG ELECTRIC WIRE REMOVER

The tool is designed to separate the electric wire from spark plug.
Application: Model: Volkswagen & Audi

040208058 LIMITED TORQUE ADAPTER MAGNETIC SPARK PLUG SOCKET SET

Use limited torque it can be protect your engine when you install the magnetic spark plug. Magnetic Spark Plug Socket Size:3/8" Dr. 14mm-12PT, 250 mmL, 3/8" Dr. 16mm-12PT, 250 mmL. Limited Torque Adapter slipper type:18 Nm, 24 Nm.

13038061K MAGNETIC UNIVERSAL SPARK PLUG SOCKET

ITEM	L mm	SIZE
13038061A	155	6" 3/8"Dr. x 14mm
13038061B	155	6" 3/8"Dr. x 16mm
13038061C	155	6" 3/8"Dr. x 9/16"
13038061D	155	6" 3/8"Dr. x 5/8"
13038061E	155	6" 3/8"Dr. x 13/16"

A B C D E

040208173 FORD TRITON SPARK PLUG EXTRACTOR MASTER SET

This Tool is used for Ford Triton Engines.Extract the broken porcelain or seized sleeves from broken spark plugs in 2003 to current. In some cases the porcelain will break off in the sleeve so need to be extracted in order for the tool to function effectively. In combination with the porcelain extractor, this combo tool also works to extract frozen and broken off spark plug sleeves for the same model Ford Triton Engines.

04020145M SPARK PLUG CHASTER (M12 X 1.25)

•Works with M12 x 1.25mm spark plug threads
•For use with 5/8-inch hex socket
•Cleans oxygen sensor hole threads
•Designed to straighten damaged threads
•Prevents cross threading

04020145P 3/8DR. SPARK PLUG CHASER（M14 X 1.25）

•Made of high strength Chrome Vanadium steel
•Works on 3/8DR. M14 x 1.25mm Spark Plug Threads
•Manganese Phosphate coating prevents rust
•Low profile design and narrow profile, and long length make it ideal for hard to reach areas

03090145L OX SENSOR THREAD CHASER M20

•Use on 13/16" hex socket to restore M20x1.5 NOx sensor threads

03090145N 3/8DR. OXYGEN SENSOR RETHREAD TOOL (M18 X 1.5)

•Works with M18 x 1.5mm spark plug threads
•For use with 13/16-inch hex socket or 3/8-inch square drive ratchet
•Cleans oxygen sensor hole threads Designed to straighten damaged threads
•Prevents cross threading

03092019 SENSOR SENDING UNIT SOCKET, 2-PC.

For Oxygen sensor used.

011218101B GLOW-PLUG CONNECTOR REMOVAL PLIERS (ANGLED)

Oem Ref. EN-48558
For removing the sheathed glow plug connector.
Opel / Vauxhall 1.7L diesel

Astra H (2004~2009)	Astra J (2009~2014)
Meriva A (2003~2010)	Meriva B (2010~2014)
Corsa D (2006~2014)	Zafira B (2009~2014)

01090503A

for FORD/PEUGEOT/CITROEN Oil Drain Plug

Suitable for FORD 2.0 TDCI	
FORD	C-Max (2015~), Focus (2014~), Galaxy (2015~). Kuga (2014~), Mondeo (2014~), S-Max (2015~)
Suitable for PSA 2.0 HDI	
PEUGEOT	308 (2013~), 508 (2014~), 3008(2009~), 5008 (2009~), Traveller (2016~)
CITROEN	C4 (2013~), C5 (2009~, 2015~), Ds4 (2014~2015), Ds5 (2013~2015), Jumpy (2016~), Space Tourer (2016~)

01090504A

for FORD Oil Drain Plug

Suitable for FORD 1.5, 1.6 TDCI / 1.0,1.6 EcoBoost	
FORD	Transit / Tourneo Connect (2013~)
Suitable for FORD 1.5, 2.0, 2.3, 2.5, 2.7. 3.5, 3.7, 5.0, 5.2 petrol / 6.2, 6.7, 6.8 diesel	
FORD	Edge (2015~2017), F-150 (2015~2016), Fusion (2017), Mustang (205~2017), F-250/350/450/550 Super Duty-diesel (2011~2012)
Suitable for LINCOLN 2.0, 2.7, 3.7 petrol	
CITROEN	MKX (2016~2017)

01090505A

for BMW Oil Drain Plug

Suitable for BMW N13 - 1.6 / N20- 1.6, 2.0/ N26 - 2.0	
BMW	F07, F10, F11, F18, F20, F21, F22, F23, F30, F31, F32, F33, F34, F35, F36, F80, F82, F83, F87, E84, E89

01090809C

for VW/AUDI/SKODA /SEAT /PORSCHE

VAG 1.8,2.0 TSI/ TFSI ; 1.6, 2.0 TDI	
VW	Beetle, Caddy, CC, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran
AUDI	A1, A3, A4, A5, A6, A7, Q3, Q5, Q7, TT, TTS
SKODA	Ibiza, Octavia, Rapid, Superb, Yeti
SEAT	Alhambra, Leon, Toledo
PORSCHE TYPE 991 / Type 95B	
911 Carrera / Carrera S 3.0 L (2017~), 911 Carrera 4 / Carrera 4S 3.0L (2017~), 911 Targa 4 / Targa 4S 3.0L (2017~), Macan 2.0L(2017~)	

15011068F

for FORD/PEUGEOT/CITROEN Oil Drain Plug

Suitable for FORD 2.0 TDCi	
FORD	C-Max (2015~), Focus (2014~), Galaxy (2015~), Kuga (2014~), Mondeo (2014~), S-Max (2015~)
Suitable for PSA 2.0 HDi	
PEUGEOT	308 (2013~), 508 (2014~), 3008 (2009~), 5008 (2009~), Traveller (2016~)
CITROEN	C4 (2013~), C5 (2009~, 2015~), DS4 (2014~2015), DS5 (2013~2015), Jumpy (2016~), Space Tourer (2016~)

150117504

for FORD Oil Drain Plug

Suitable for FORD 1.5, 1.6 TDCi / 1.0, 1.6 EcoBoost	
FORD	Transit / Tourneo Connect (2013~)
Suitable for FORD 1.5, 2.0, 2.3, 2.5, 2.7, 3.5, 3.7, 5.0, 5.2 petrol / 6.2, 6.7, 6.8 diesel	
FORD	Edge (2015~2017), F-150 (2015~2016), Fusion (2017), Mustang (2015~2017), F-250/350/450/550 Super Duty - diedel (2011~2012)
Suitable for LINCOLN 2.0, 2.7, 3.7 pertrol	
CITROEN	MKX (2016~2017)

15011068B

for BMW Oil Drain Plug

Suitable for BMW N13 - 1.6 / N20- 1.6, 2.0/ N26 - 2.0	
BMW	F07, F10, F11, F18, F20, F21, F22, F23, F30, F31, F32, F33, F34, F35, F36, F80, F82, F83, F87, E84, E89

1501150809D

for VW/AUDI/SKODA /SEAT Oil Drain/Cam Cover Plug

Suitable for VAG 1.8, 2.0 TSI / TFSI ; 1.6, 2.0 TDI	
VW	Beetle, Caddy, CC, Golf, Jetta, Passat, Polo, Scirocco, Sharan, Tiguan, Touran
AUDI	A1, A3, A4, A5, A6, A7, Q3, Q5, Q7, TT, TTS
SKODA	Ibiza, Octavia, Rapid, Superb, Yeti
SEAT	Alhambra, Leon, Toledo

01090504B

for MERCEDES

MERCEDES
M176 / M177 / M178 (2015~2018), M276 (2014~2018), M278 / M157 (2014~2018), OM642 (2013~), OM651 (2013~2018), OM654 (2016~2017)

01090504C

for DAF / MAN

PACCAR MX-11 MX-13
CF(2013~), XF (2012~)
MAN D3876
TGX (2014~)

01090504D

FORD / PEUGEOT / CITROEN / LINCOLN

FORD 2.0 TDCI
C-Max (2015~), Focus (2014~), Galaxy (2015~), Kuga (2014~), Mondeo (2014~), S-Max (2015~)
PSA 2.0 HDI
PEUGEOT: 308 (2013~) 508(2014~), 3008 (2009~), 5008 (2009~), Traveller (2016~)
CITROEN: C4 (2013~), C5 (2009~), DS4 (2014~2015), DS5 (2013~2015), Jumpy (2016~), Space Tourer (2016~)
FORD
F-150 3.5L (2016~2017), F-150 2.7L , 3.3L, 3.5L, 5.0L (2018)
LINCOLN
MKZ 3.0L (2017), Continental 2.7L, 3.0L (2017~2018)

0109504AZ

TOOL SET FOR PLASTIC OIL DRAIN PLUG

For removing and installing of the plastic oil drain plug at the plastic oil pan.

01090503A
01090504A
01090505A
01090509C

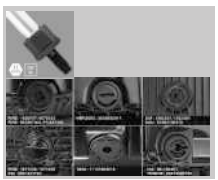
0109504AZ5

TOOL SET FOR PLASTIC OIL DRAIN PLUG

01090504B
01090504C
01090504A
01090504D
01090505A
01090809C

0109504AZ3

TOOL SET FOR PLASTIC OIL DRAIN PLUG



01090504B
01090504C
01090504A
01090503A
01090505A
01090809C

15011068V NYLON OIL DRAIN PLUGS FOR AUDI AND VW (8PCS)

Audi	A3	2015-2017
Audi	A6	2015-2017
Audi	S3	2015-2017
Audi	TT Quarttro	2015-2017
VW	Golf	2015-2017
VW	GTI	2015-2017

15011068X NYLON OIL DRAIN PLUGS FOR AUDI AND VW (9PCS)

Audi	A3	2015-2017
Audi	A6	2015-2017
Audi	S3	2015-2017
Audi	TT Quarttro	2015-2017
VW	Golf	2015-2017
VW	GTI	2015-2017

010938920 5 PCS PLASTIC OIL DRAIN PLUG KEY WRENCH SET

* Contents: 3/8"D T-handle (80mm long, shank length 100mm),
3/8"D slot socket and 3/8"D >1/4"D adaptor EU Registered Design
* 10mm Hex bit with 1/4" hex shank and VAG oil plug bit with 1/4" hex shank
* Designed for use with Connect 31775 Peugeot/Citroen (OEM 9801444780 Plug)
and Ford (OEM 18711598 plug)
* Plus Connect 31776 Ford (OEM 1830727 plug)
and Connect 31774 BMW (OEM 11137605018 plug)
* Plus Connect 31771 VAG
(OEM Sump and Cam cover plug 06L 103 801)

15018365 PLASTIC DRAIN PLUG KEY

Materia:PA6+ GF.
Idea to open the oil drain plug key special for plastic oil gear box. Mercedes Benz Genuine W205 C63 AMG S Engine Oil Drain Plug.

02059005Q OIL PRESSURE SWITCH SOCKET WRENCH - COMMERCIAL VEHICLE

1/2 "drive, tenon width 10.2 mm,
Outside Ø 52.3 mm, inside Ø 46 mm.
For disassembly / assembly of the new oil pressure switch. With window for performing the Cable with newer oil pressure switches.
Type: MAN

011208956 VW/AUDI 7 SPEED DSG CLUTCH INSTALLER & REMOVER

Introduction:
The tool is to repair of the clutch unit as well as disassembly / Assembly of the clutch housing. The special design installs and removes the clutch of gearbox.

Item	Description	OEM No.
A	Puller-Clutch	T10373
B	Bolt	T10373
C	Setting tool- Release Bearing	T10374
D	Clutch Press Piece	T10376
E	Support Device (Short)	T10323
F	Bolt (Long)	T10323
G	Support Device (Long)x2	T10323
H	Bolt (Small)	T10323
I	Gauge block	T10466
J	Straight Edge 500mm	T40100
K	Assembly Lever	T10407

011108139 BMW COMBINATION FUEL INJECTOR REMOVE

Designed for removing fuel injector . Applicable:BMW N54 . BMW number: 130180

011108193 FORD 6.7L FUEL INJECTOR REMOVAL TOOL

Lift Kit facilitates the removal of the fuel injector in the Ford 6.7L Diesel engine. Steel tool that will not bend or break, and a unique pad allows for alignment of lift and special jack screw. No need to bolt or unbolt to cylinder head. The tool replaces the fuel injector for easy removal using a small pry bar. Attach the hammer for a quicker and easier removal of the injector. Facilitate fast removal of Fuel Injector over current methods.

011108295 7.3L FORD DIESEL FUEL INJECTOR SLEEVE CUP PULLER REMOVER INSTALLER TOOL

Engine - 7.3L Diesel: F-Super Duty 250-550: Ford Vehicles
Applicable:
1995-2003 Ford E-350/E-350 Super Duty
2002-2003 Ford E-450 Super Duty
2002-2003 Ford E-550 Super Duty
1996-1999 Ford Econoline Duper Duty
2000-2003 Ford Excursion
1994-1997 Ford F Super Duty, F-250, F-350
1999-2003 Ford F-250 Super Duty
1999-2003 Ford (F-350.F-450.F-550) Super Duty

02030927 HIGH PRESSURE FUEL INJECTION PUMP SPROCKET TOOL

Materia: S45C
Developed to provide a removal solution for the High Pressure Fuel Pump Sprocket fitted to the Hyundai and Kia 2.0 & 2.2 CR diesel engines listed below. This tool allows the fuel pump sprocket to be pulled from the pump. N.B: For 1.1, 1.4, 1.5, 1.6, and 1.7
•Used to remove the high pressure diesel fuel pump sprocket on Hyundai/KIA (2.0 & 2.2 CRDi engines)
•Application: Chain driven CRDi diesel engines 2.0 & 2.2 CRDi fitted to Hyundai and KIA models
•Equivalent to OEM 09331-1M100
•Access to the engine timing chain requires the removal of the sump which is greatly assisted by using sump joint separator (OEM09215-3C000)
•Essential for sprocket removal

01118975 HIGH PRESSURE FUEL INJECTION PUMP SPROCKET TOOL

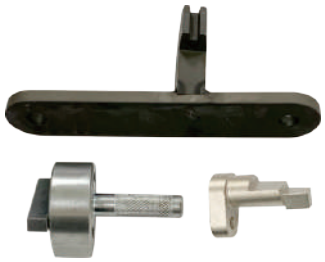
OEM No.:09331-1M100
Application:Chain driven CRDi diesel engines 2.0 & 2.2 CRDi fitted to Hyundai and KIA models

01118828 FUEL INJECTOR INSTALL & REMOVAL TOOL FOR BMW

Special design to install and remove the injector in N55,N20,N63 engine.
In order to remove BMW N55,N20,N63 fuel injector from the cylinder head must be utilized. Failure to use the special tool will result in damage to the injector.

Iitem	Discription	OEM No.
A	Fuel Injector Install & Removal Tool	13 0 270
B	Fuel Injector Install & Removal Tool	13 0 320
C	Injector Remover/Installer	224 9 115
D	Injector Remover	130 180
E	External hexagonal fixed column	
F	Slide Hammer	

020308993 TIMING TOOL - FUEL PUMP CAMSHAFT- FOR LAND ROVER JAGUAR 5.0 / 3.0

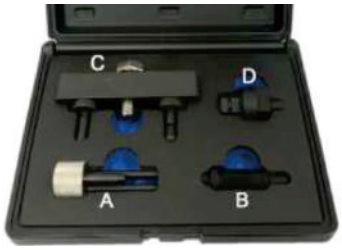


Introduction:
A STEEL TIMING TOOL DESIGNED TO TIME THE FUEL PUMP CAMSHAFT
OEM No.:303-1621, 303-1304, 303-1303

02038907 HIGH-PRESSURE FUEL PUMP SPROCKET LOCKING TOOL

Used to lock the high pressure fuel pump in its timed position when changing the high pressure pump drive belt
OEM NO.310-212

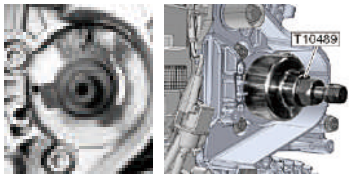
02038974 FUEL PUMP LOCKING TOOL KIT FITS- FOR VW AUDI PORSCHE VAG TDI 2.7/3.0



Fuel pump drive belt kit VAG 2.9/3Lt TDi for locking the fuel pump into its timed position so that the pump drive belt can be replaced or the pump timing checked.

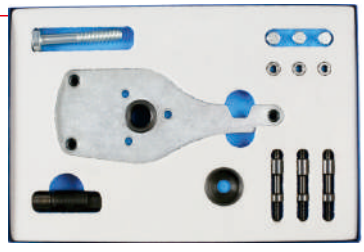
item	Description	OEM NO.
A	High Pressure Pump Locking Tool	T40135
B	Crankshaft Locking	T40237
C	Camshaft Sprocket Puller	T10320
D	Camshaft Sprocket Puller	T40058

020318519 DIESEL PUMP SPROCKET PULLER (VAG)



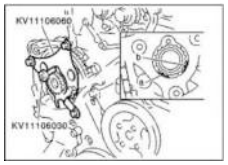
Used to removal of the high pressure fuel pump sprocket on the diesel engine.
Suitable for 1.4L, 1.6L, 2.0L TDI engine:
VW: Golf 2013~
Audi: A3 2013~
Skoda: Rapid 2012~, Octavia 2013~, Fabia 2014~,
Superb 2015~, Kodiaq 2016~
Seat: Alhambra 2011~, Ibiza 2008~, León 2013~, Ateca
OEM Ref. T10489

011208982 SYRINGE PUMP REMOVAL/INSTALLATION TOOL- FOR FORD 2.0



Introduction:
This kit has been designed for the removal and replacement of the high pressure fuel pump from the drive gear for the applications listed. The gear will be maintained in its correctly timed position so that no adjustments to the timing are required when the pump is refitted.
Applications: Ford Transit, Transit Custom and Tourneo Custom with 2.0lit Ecoblue TDCi engines: AWD, FWD, RWD 2016 onwards
Engine codes: YLFS, YMFS, YNFS, YLF6, YMF6, YNF6, YLR6, YMR6, YNRS
OEM NO.: 303-1635

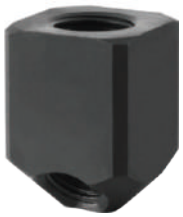
011208306 HIGH-PRESSURE PUMPS REMOVAL & SPROCKET LOCKING TOOL



Special tool is used to hold the timing sprocket of the high pressure pump and to adjust the pump when reassembling.
OEM Ref: KV11106060
Designed to lock the timing sprocket/injection pump sprocket on 2.2/2.5 chain driven engines.
Applicable : Nissan diesel 2.5/2.2 fitted to Almera / Almera Tino/ Cabstar / Navara / Pathfinder / Primera / X-TrailEngine codes: YD25ddt I (2.5Di, 2.5DDCI) YD22DDTi &YD22DDT (2.2 TURBO DIESEL).
OEM Ref: KV11106030

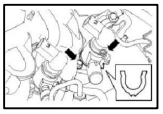
0111D17602A DIESEL INJECTOR PULLER (BOSCH)

For removing diesel injector without removing the cylinder head.
Suitable for BOSCH diesel injector.



0111D008 DIESEL INJECTOR EXTRACTOR - JAGUAR / LAND ROVER

•This removal tool specifically designed to extract the common rail injectors.
•Applications :
2.7 TDi V6 & 3.6 TDi V8 diesel engine.
Land Rover Discovery 3 , Discovery 4 ,
New Range Rover , Land Rover Sport.
Jaguar X200 , S Type , X250(XF) ,X350(XJ)
•OEM Ref: 303-1127



0112D63658C VOLVO (FM/ FM12/ FH) TRUCK INJECTOR SLEEVE REMOVAL/ INSTALLATION TOOL KIT

The tool set can remove/ install FM/ FM12/ FH truck injector sleeve.
Suitable injector sleeve geninue no.:
85124276, 85104134,21515329
Application: VOLVO (FM/ FM12/ FH) truck
This tool needs to combine with 030309111

01A0940 SET OF DUMMY REGULATORS FOR TESTING DIESEL COMMON RAIL SYSTEM

Material: S45C Steel． Used with the tester and suitable adapters, it makes it possible to determine whether the problem is the high pressure pump or the regulator when there is no pressure in the high pressure circuit in common rail engines.
Recommended for Bosch, Delphi, Denso and Siemens pressure regulators

011110508 UNIVERSAL INJECTOR EXTRACTOR TOOL SET

Extraction of diesel injectors of the brands Bosch, Delphi, Siemens, Denso by means of percussion hammer
Allows removal of the injectors without removal of the electric plug or injector head
1. Special pliers for secure gripping in the clamp holder on the injector
2. Handles with joint adapter for simultaneous pulling and twisting of the injector.
3. Handles can be attached either to the internal or external threads of the power supply connector

011110516 DIESEL INJECTOR PULLER TOOL SET

Suitable for the removal of Bosch Siemens and Denso injectors.
Siemens M25 x 1 and M14 x 1 adaptor.
Denso M25 x 0.75 and M25 x 0.5 adaptor
Bosch M27 / M17 adaptor
F/F Extension M18 x 1.5
Denso and Siemens injector valve spindle dismounting tool

011154524 INJECTOR ADAPTOR SET-DELPHI & DENSO

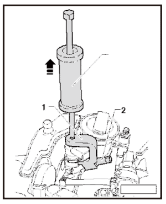
Injector Adaptor Set Bosch/Siemens/Denso/Delphi Set included 24 pc injector adaptors suitable for Bosch, Siemens, Denso and Delphi fuel injectors.

011162534 DIESEL INJECTOR SEAL PULLER

•A specialised tool, used to assist the extraction of the copper washers used to seal diesel injectors where they enter the cylinder head.
•Commercial vehicles used.
•Theses sealing washers sit at the bottom of the injector orifice and are a common failure point. they are so deep into the cylinder head and usually stuck tight with carbon build-up-that extraction is usually next to impossible.

011108019 VW DIESEL INJECTOR PULLER

VAG 1.6L 4 cylinder common rail diesel injector remover(piezo injectors).



011108158 INJECTOR PULLER SET FOR CUMMINS

This helpful puller will handle a variety of injectors found in Cummins engines; mechanical L-10, PDT and PTD top stop 855NH. Its two jaw design firmly grips the injector while it is being removed by the slide hammer. Includes: Special adapter for pulling STC injectors.
OEM NO: OTC-5042

011110508 INJECTOR REMOVAL KIT FOR BMW

Allows easy removal of the injectors and is required for installing the fuel injector pump
Suitable for the following engines:
BMW N54 (6 cylinder) - N63 (V8)
Mini N14 (4 cylinder) - N18 (4 cylinder)

01110917 UNIVERSAL INJECTION NOZZLE PULLER SET FOR DENSO

Universal Injection nozzle puller set for DENSO
Material: S45C Steel
For Denso injectors: 23670→30080 · MB416600 → MB40A · 5870 → 13H50B · 11L 12182 · 23670 · → 26011 · 23670 → 0R050 · 10J 06798
•Enables the removal of the injectors without removing the electrical connector or injector head
•Installed on e.g. TOYOTA · NISSAN · MAZDA · OPEL / VAUXHALL · LEXUS
•The extractor system securely grips the supply and overflow oil line connection
•Including 5 injector adapters and sliding hammer
•Easy removal of the injectors is possible using a sliding hammer
•Quick assignment of the arm pairs thanks to the instructions provided

011114522 UNIVERSAL GLOW PLUG SEALING SEAT REAMER SET

This optimal reamer set includes common reamers for different engines.
Use for cleaning and refacing glow plug holes and especially useful for conical sealing seat in cylinder head.
Set also contains guiding tool, cleaning brushes and glow plug hole finder.
Individual sizes on request.
Adapter guide and 7 brushes (Ø 4.7 mm - Ø 11 mm)
Suitable for: M8x1.0, M9x1.0, M10x1.0, M10x1.25, M12x1.25

031-A910508 COMMON RAIL INJECTOR TOOL KIT

It consists of various tools are suitable for mantling and dismantling / assembling and disassembling of BOSCH, Denso and Siemens common rail injectors.