

INA No. 400 0478 10 // (KL-0180-18 K INA) composed of:

INA No. 400 0479 10 // (KL-0180-180 K INA)

Applicable to
1.0 - 1.6 litre
engines



INA No. 400 0480 10 // (KL-0180-181 K INA)

Applicable to
1.8 - 2.0 litre
engines



INA No. 400 0478 10 // (KL-0180-18 K INA)

Tool Kit TSI 1.0 - 2.0, in a Storage Case

Applicable to VW-Audi, Seat, Skoda 1.0, 1.2 6V, 1.2 12V 3-cylinder petrol engines, as well as to 1.2 TSI / TFSI, 1.4 FSI / TSI / TFSI, 1.6 FSI, 1.8 and 2.0 TSI / TFSI 4-cylinder petrol engines; as found in VW Polo, Fox, Golf, Golf Plus, Touran, Eos, Jetta, Passat, Scirocco, Sharan, Tiguan; Audi A3, A4, A5, Q5, TT; Seat Arosa, Altea, Ibiza, Leon, Cordoba, Exeo, Toledo and Škoda Fabia, Roomster, Octavia II, Superb II, Yeti etc.

(Engine codes: AHT, AWY, AXU, AZQ, BAG, BBM, BKG, BLF, BLG, BLN, BLP, BMD, BME, BMY, BTS, BWK, BXV, BYT, BZB, BZG, CABA, CABB, CABD, CADA, CAEA, CAEB, CAED, CAVA, CAVB, CAVC, CAVD, CAVE, CAVF, CAVG, CAWA, CAWB, CAXA, CAXC, CBFA, CBZA, CBZB, CBZC, CCTA, CCZA, CCZB, CCZC, CCZD, CDAA, CDAB, CDGA, CDHA, CDHB, CDNB, CDNC, CDND, CESA, CETA, CEVA, CFKA, CGPA, CGPB, CGYA, CHFA, CHFB, CJEB, CJSa, CJSB, CKMA)

Field of Application

For the locking of camshafts, crankshafts, timing chain tensioners, auxiliary drive belt tensioners (ribbed V-belt) and flywheel. For counter-holding the camshafts and crankshaft. For the removal and installation of ignition coils. For removing /installing the 4/3-way central valve found in camshaft phasing units. For pretensioning/pushing back the timing chain tensioner. For positioning the camshaft. An indispensable tool set when changing a timing chain or performing an engine repair.

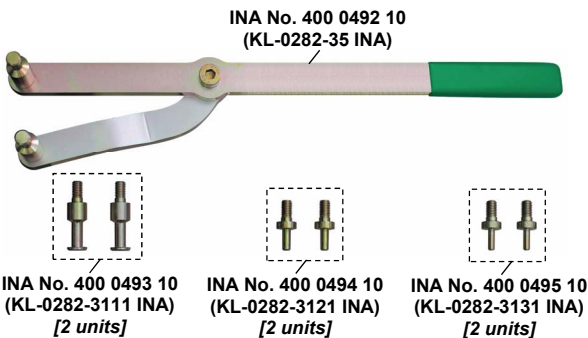
Scope of Delivery (Components):

Part No./Description	Qty	Image	Cross Reference OEM Tool No.
INA No. 400 0496 10 // (KL-0184-0220 INA) Counter-Holding Tool, VW This tool is used in conjunction with the corresponding base tool , for counter-holding pulleys and timing belt sprockets when loosening/tightening the fastening screws for example. The locking takes place either via the pins (with Ø11.5mm) which engage the holes of the pulleys/timing belt sprockets, or by fixing the counter-holding tool to the crankshaft/timing belt sprocket by means of the M8 bolt.	1	 To be used with base tool: <u>1x</u> - INA No. 400 0503 10 // (KL-0184-0101 INA) Extension Tube with Protective Handle <u>1x</u> - INA No. 400 0505 10 // (KL-0184-0103) Folding Spring Bolt	3415 ^{*A} 3415/1 ^{*A} 3415/2 ^{*A} 608 94 50 ^{*A} T30004 ^{*A} T30004/1 ^{*A}
INA No. 400 0497 10 // (KL-0184-0250 INA) Counter-Holding Tool, VW This tool is used in conjunction with the corresponding base tool for counter-holding the vibration damper while loosening and tightening the crankshaft central screw.	1	 To be used with base tool: <u>1x</u> - INA No. 400 0503 10 // (KL-0184-0101 INA) Extension Tube with Protective Handle <u>1x</u> - INA-No. 400 0504 10 // (KL-0184-0102) Extension Tube <u>2x</u> - INA-No. 400 0505 10 // (KL-0184-0103) Folding Spring Bolt	T10355 ^{*A}
Base Tool INA No. 400 0503 10 // (KL-0184-0101 INA) Extension Tube with Protective Handle	1		
INA-No. 400 0504 10 // (KL-0184-0102) Extension Tube	1		
INA-No. 400 0505 10 // (KL-0184-0103) Folding Spring Bolt	2		

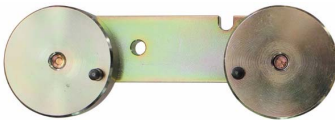
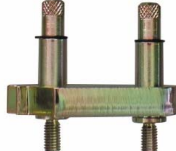
^{*A} Alternative Tool ^{*E} Equivalent Tool

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Scope of Delivery (Components):

Part No./Description	Qty	Image	Cross Reference OEM Tool No.
INA No. 400 0469 10 // (KL-0282-35 B INA) Reaction Wrench Set (470mm long, adjustable) Designed to prevent timing belt sprockets on camshafts, injection pumps, etc. from rotating, for example, when loosening/tightening the central fastening bolt. Thanks to the different interchangeable pins and the adjustable lever allowing for variable adjustments to hole diameters and pitches, this tool is virtually universally applicable.	1	 INA No. 400 0492 10 (KL-0282-35 INA) INA No. 400 0493 10 (KL-0282-3111 INA) [2 units] INA No. 400 0494 10 (KL-0282-3121 INA) [2 units] INA No. 400 0495 10 (KL-0282-3131 INA) [2 units]	3036 * ^A MP1-216 * ^A T10172 * ^A T10172A * ^A T10172/2 * ^A T10172/4 * ^A T20018 * ^A T20018A * ^A T20018B * ^A T20018B/1 * ^A T20018B/2 * ^A T20018B/3 * ^A T30004 * ^A
INA No. 400 0513 10 // (KL-0127-81 INA) Ignition Coil Puller This tool is used to remove and install ignition coils with final output stage on VW/Audi petrol injection engines.	1		T10094A * ^A
INA No. 400 0488 10 // (KL-0280-1081 B INA) Locking Pin for Camshaft For locking the camshaft.	1		T10120 * ^A
INA No. 400 0489 10 // (KL-0280-1082 B INA) Locking Pin for Camshaft For locking the camshafts.	2		T10123 * ^A
INA No. 400 0490 10 // (KL-0280-1083 A INA) Locking Pin for Crankshaft For locking the crankshaft.	1		T10121 * ^A
INA No. 400 0491 10 // (KL-0280-1084 B INA) Locking Pin, Ø18mm For locking the flywheel.	1		T10043 * ^A
INA No. 400 0483 10 // (KL-0180-3024 INA) Retaining Pin, Ø 2.4mm For locking the timing chain tensioner.	1		T10115 * ^E

Scope of Delivery (Components):

Part No./Description	Qty	Image	Cross Reference OEM Tool No.
INA No. 400 0484 10 // (KL-1681-111 INA) Adaptor (M14x1.25) for TDC Positioning This tool is used in conjunction with a dial gauge to determine the TDC position on the engine. (e.g. KL-0128-1 Dial Gauge)	1		T10170A *A
INA No. 400 0485 10 // (KL-0280-6021 A INA) Setting Gauge for Camshafts For locking the camshafts.	1		T10171 *A T10171A *A
INA No. 400 0486 10 // (KL-0280-6022 A INA) Locking Screw for Crankshaft For locking the crankshaft.	1		T10340 *A
INA No. 400 0487 10 // (KL-0280-6023 INA) Locking Pin for Camshaft For locking the camshaft.	1		T10414 *A
INA No. 400 0498 10 // (KL-0280-7621-1 INA) Locking Tool for Camshaft (left) For locking the exhaust camshafts.	1		T40271 *A T40271/1 *A
INA No. 400 0499 10 // (KL-0280-7621-2 INA) Locking Tool for Camshaft (right) For locking the inlet camshafts.	1		T40271 *A T40271/2 *A
INA No. 400 0500 10 // (KL-0280-7622-1 INA) Removal/Installation Tool for Cam Phaser Central Valve For removing /installing the 4/3-way central valve found in camshaft phasing units.	1		T10352 *A
INA No. 400 0501 10 // (KL-0280-7622-2 INA) Removal/Installation Tool for Cam Phaser Central Valve For removing /installing the 4/3-way central valve found in camshaft phasing units.	1		T10352/1 *A
INA No. 400 0502 10 // (KL-0280-7622-3 INA) Removal/Installation Tool for Cam Phaser Central Valve For removing /installing the 4/3-way central valve found in camshaft phasing units.	1		T10352/2 *A

*A Alternative Tool

*E Equivalent Tool

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Scope of Delivery (Components):

Part No./Description	Qty	Image	Cross Reference OEM Tool No.
INA No. 400 0506 10 // (KL-0280-7623 INA) Pressure Piece For adjusting the crankshaft pulley central screw.	1		T10368 * ^V
INA No. 400 0522 10 // (KL-0280-7631 INA) Mounting Lever For pre-tensioning/pushing back the timing chain tensioner.	1	 	T40243 * ^A
INA No. 400 0509 10 // (KL-0280-7632 INA) Locking Tool for Chain Tensioner (2 units) For locking the timing chain tensioner.	1		T40267 * ^E
INA No. 400 0510 10 // (KL-0280-7633 INA) Camshaft-Turning Tool For turning the camshafts.	1		T40266 * ^A
INA No. 400 0511 10 // (KL-0280-221 INA) Locking Pin, Ø 4mm, angled For locking the auxiliary drive belt tensioner (ribbed V-belt).	1		T40098 * ^E
INA No. 400 0512 10 // (KL-0280-222 INA) Locking Pin, Ø 4mm, angled For locking the auxiliary drive belt tensioner (ribbed V-belt).	1		T10060 A * ^E
INA No. 400 0514 10 // (KL-0180-1890 INA) Plastic Storage Case	1	Warnings and Notes - Do not attempt to start the engine whilst tools of the INA No. 400 0478 10 // (KL-0180-18 K INA) timing chain tool kit are still mounted. - All vehicle-specific data stated herein are supplied under reserve and without commitment. - Any work on vehicles should only be performed by qualified specialist personnel observing and complying with the directions, provisions, and safety regulations specified by the vehicle manufacturer. - Always refer to the vehicle manufacturer's data and instructions as only these apply to all work that is carried out on the vehicle.	