

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	 <p>To be used with base tool: 1x - INA No. 400 0503 10 // (KL-0184-0101 INA) Extension Tube with Protective Handle 1x - INA No. 400 0505 10 // (KL-0184-0103) Folding Spring Bolt</p>	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	 <p>To be used with base tool: 1x - INA No. 400 0503 10 // (KL-0184-0101 INA) Extension Tube with Protective Handle 1x - INA-No. 400 0504 10 // (KL-0184-0102) Extension Tube 2x - INA-No. 400 0505 10 // (KL-0184-0103) Folding Spring Bolt</p>	T10355 *A
Base Tool	1		
	1		
	2		

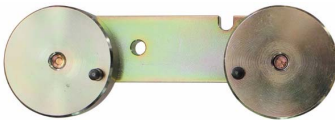

*A Alternative Tool *E Equivalent Tool

Scope of Delivery (Components):

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

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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

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	 <p>INA No. 400 0508 10 (KL-0280-2351 B INA)</p>  <p>INA No. 400 0507 10 (KL-0280-7631-1 INA)</p>	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	<p>Warnings and Notes</p> <ul style="list-style-type: none"> 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. 	

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