

INA No. 400 0577 10 // (KL-0180-190 K INA)



**INA No. 400 0577 10 // (KL-0180-190 K INA)
Locking Tool Set (Basic Set), Opel / Vauxhall**

Applications: Opel / Vauxhall 1.0 12V and 1.2 + 1.4 16V ECOTEC petrol engines as well as 1.3 16V CDTi Diesel engines, and Chevrolet 1.4 16V petrol engines;

as fitted to Opel/Vauxhall: Adam, Agila A + B, Astra G + H + J, Cascada, Combo C, Corsa B + C + D, Insignia A, Meriva A + B, Tigra B, Zafira C, and **Chevrolet:** Aveo, Beat, Cobalt, Cruze, Orlando, Trax

Engine codes (petrol): A10XEP, A12XEL, A12XER, A14NEI, A14NEL, A14NET, A14XEL, A14XER, X10XE, X12XE, Z10XE, Z10XEP, Z12XE, Z12XEP, Z14XEL, Z14XEP, LDD, LUH, LUJ

Engine codes (Diesel): A13DTC, A13DTE, A13DTR, Y13DT, Y13DTH, Z13DT, Z13DTE, Z13DTH, Z13DTI, Z13DTJ, Z13DTR



Field of Application

Designed for the locking and positioning of camshaft, crankshaft, injection pump, timing chain tensioner and cam phase sensor disc. Also includes all the tools required for counter-holding the crankshaft.

An indispensable tool set when replacing a timing chain or performing repairs to the engine.

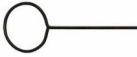
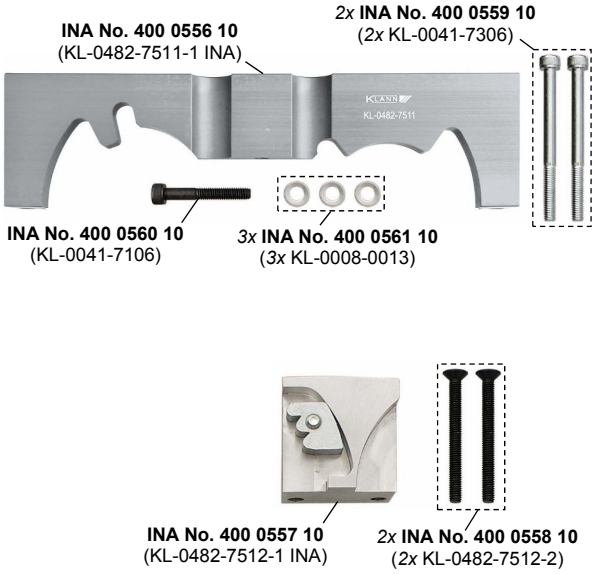

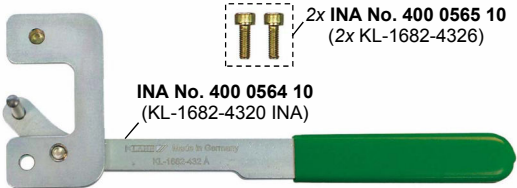
The reaction wrench that comes with tool set allows you to professionally counter-hold perforated injection pump sprockets and cam belt/chain sprockets (with hole Ø not smaller than 6.5mm) when loosening/tightening the central fastening bolt for example. The different interchangeable pins and the adjustable lever allow the tool to be adapted to various hole diameters and PCDs. Thanks to these features, the wrench is virtually universally applicable.

Scope of Delivery:



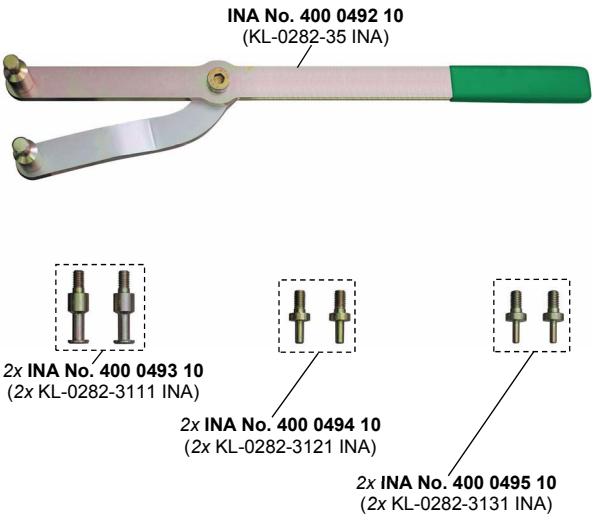
Part No./Description	Qty	Image	Cross Reference OEM Tool No.
INA No. 400 0546 10 // (KL-0680-15 A INA) Setting Gauge for Camshafts For locking the camshafts.	1		09919-58310 *A 21-162 *A 21-162 B *A 303-367 *A 303-376 *A 303-376 B *A 303-465 *A 49 JE01 054 *A 49 UN30 3376 *A 999-7151 *A JE01 054 *A KM-953 *A
INA No. 400 0547 10 // (KL-0482-432 A INA) Locking Pin for Crankshaft For locking the crankshaft.	1		09912-38310 *A 1.870.900.400 *A KM-952 *A
INA No. 400 0548 10 // (KL-0482-433 A INA) Setting Gauge for Camshaft Position Sensor For locking the inlet camshaft phase sensor disc.	1		09919-08310 *A EN-49978 *A KM-954 *A

*A Alternative Tool

Scope of Delivery:


Part No./Description	Qty	Image	Cross Reference OEM Tool No.
<p>INA No. 400 0549 10 // (KL-0180-3024) Retaining Pin, Ø 2.4mm For locking the timing chain tensioner.</p>	1		KM-955 * ^A KM-955-1 * ^A KM-955-10 * ^A 09919-58320 * ^A 303-1054 * ^A Drill, Ø 3mm * ^A
<p>INA No. 400 0555 10 // (KL-0482-7510 INA) Locking Tool for Camshaft For locking the camshaft sprockets. For locking the inlet camshaft when loosening/tightening the screw of the camshaft phase sensor discs.</p>	1	 <p>INA No. 400 0556 10 (KL-0482-7511-1 INA)</p> <p>2x INA No. 400 0559 10 (2x KL-0041-7306)</p> <p>INA No. 400 0560 10 (KL-0041-7106)</p> <p>3x INA No. 400 0561 10 (3x KL-0008-0013)</p> <p>INA No. 400 0557 10 (KL-0482-7512-1 INA)</p> <p>2x INA No. 400 0558 10 (2x KL-0482-7512-2)</p>	EN-49977 * ^A EN-49977-100 * ^A EN-49977-200 * ^A
<p>INA No. 400 0562 10 // (KL-0482-7513 INA) Locking Tool for Camshaft For locking the inlet camshaft phase sensor disc.</p>	1		EN-49978 * ^A
<p>INA No. 400 0563 10 // (KL-1682-432 A INA) Holding Tool for Timing Chain Tensioner For pre-tensioning/retracting the timing chain tensioner.</p>	1	 <p>2x INA No. 400 0565 10 (2x KL-1682-4326)</p> <p>INA No. 400 0564 10 (KL-1682-4320 INA)</p>	1.870.900.400 * ^A 303-1469 * ^A

Scope of Delivery:

Part No./Description	Qty	Image	Cross Reference OEM Tool No.
<p>INA No. 400 0566 10 // (KL-1682-434 A INA) Locking Pin, Ø 8mm For locking the crankshaft, the flywheel respectively.</p>	1		Pin, Ø 8mm *A
<p>INA No. 400 0567 10 // (KL-1682-435 INA) Counter-Holding Tool Kit, Crank/Cam For counter-holding the crankshaft/camshaft when loosening and tightening the central screw.</p>	1	 <p>INA No. 400 0568 10 (KL-1682-4310 INA)</p> <p>3x INA No. 400 0570 10 (3x KL-0040-2511)</p> <p>INA No. 400 0569 10 (KL-1682-4351 INA)</p>	KM-662-C *A 0104-B *A 09912-46310 *A 09917-68221 *A 1.860.831.000 *A 1.871.000.200 *A 1.871.000.200 *A 1.871.008.600 *A 1.871.008.600 *A 2.000.001.000 *A 2.000.018.400 *A 2.000.025.500 *A 303-1475 *A
<p>INA No. 400 0469 10 // (KL-0282-35 B INA) Reaction Wrench Kit (470mm long, adjustable) Designed to counter-hold timing belt/chain sprockets on camshafts, injection pumps etc.; for example, when loosening/tightening the fastening bolt.</p> <p>The different interchangeable pins and the adjustable lever allow the tool to be adapted to various hole diameters and PCDs. Thanks to these features, the wrench is virtually universally applicable.</p>	1	 <p>INA No. 400 0492 10 (KL-0282-35 INA)</p> <p>2x INA No. 400 0493 10 (2x KL-0282-3111 INA)</p> <p>2x INA No. 400 0494 10 (2x KL-0282-3121 INA)</p> <p>2x INA No. 400 0495 10 (2x KL-0282-3131 INA)</p>	0606-A1 *A 0606-A1Y *A 0606-A2 *A 09917-68221 *A 1.860.831.000 *A 1.860.831.001 *A 1.860.831.002 *A 1.860.885.000 *A 1.870.815.000 *A 1.870.836.000 *A 15-030 A *A 18G 1521 *A 205-072 *A 49 D011 102 *A 49 G011 103 *A 49 S120 710 *A 6016-T *A 6310-T *A EN-47634 *A EN-49979 *A KM-6245 *A KM-6347 *A MD998747 *A Mot.799 *A Mot.799-01 *A

*A Alternative Tool

Scope of Delivery:

Part No./Description	Qty	Image	Cross Reference OEM Tool No.
<p>INA No. 400 0572 10 // (KL-0482-4500 INA) Locking Tool for Camshaft For locking the camshaft.</p>	2		0104-A *A 09917-68610 *A 1.860.985.000 *A 1.871.000.900 *A 303-1472 *A EN-46781 *A
<p>INA No. 400 0573 10 // (KL-0482-451 A INA) Locking Pin for Crankshaft For locking the crankshaft, the flywheel respectively.</p>	1		0104-C *A 09912-38300 *A 09912-46310 *A EN-46785 *A
<p>INA No. 400 0574 10 // (KL-0180-1991 INA) Plastic Storage Case</p>	1		

Warnings and Notes

- 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.
- Do not attempt to start the engine whilst tools of the **INA No. 400 0577 10** // (KL-0180-190 K INA) locking tool set are still mounted.
- Always refer to the vehicle manufacturer's data and instructions as only these apply to all work that is carried out on the vehicle.
- All vehicle-specific data stated herein are supplied under reserve and without commitment.