

INA No. 400 0578 10 // (KL-0180-191 INA)



**INA No. 400 0578 10 // (KL-0180-191 INA)
 Locking Tool Set (Upgrade Kit), Opel/Vauxhall**

Applications: Opel / Vauxhall 2.2 16V ECOTEC petrol engines as well as 2.0 + 2.2 16V CDTi Diesel engines;

as fitted to Opel / Vauxhall: Astra G, Frontera B, Omega B, Signum A, Sintra A, Speedster A, Vectra B + C, Zafira A + B

Engine codes (petrol): Z22SE, Z22YH

Engine codes (Diesel): X20DTL, X22DTH, Y20DTL, X20DTH, Y22DTH, Y20DTH, Y22DT, Y22DTR

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.


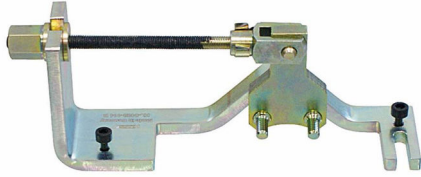
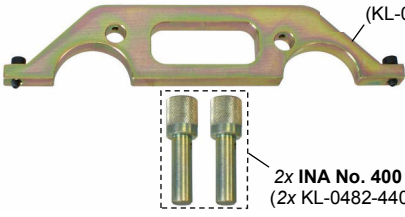


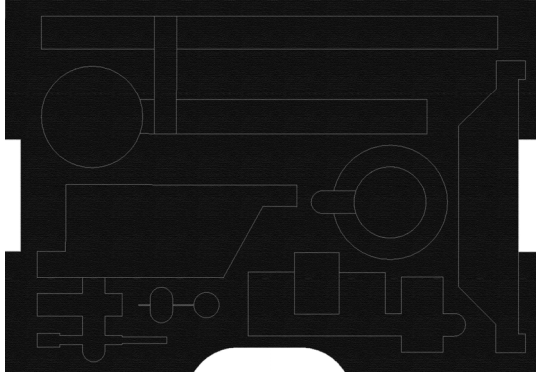
An indispensable tool set when replacing a timing chain or performing repairs to the engine.

Scope of Delivery:

Part No./Description	Qty	Image	Cross Reference OEM Tool No.
<p>INA No. 400 0538 10 // (KL-0184-041 INA) Reaction Wrench For counter-holding the crankshaft pulley when loosening and tightening the crankshaft central screw.</p>	1		KM-930 * ^A KM-956-1 * ^A KM-977-1 * ^A 2.000.001.000 * ^A 2.192.261.000 * ^A 2.192.361.000 * ^A EN-38122-A * ^A EN-47981 * ^A J-38122-A * ^A
<p>INA No. 400 0541 10 // (KL-0482-411 A INA) Setting Gauge for Camshaft For locking the camshaft.</p>	1		83 95 386 * ^A KM-932 * ^A
<p>INA No. 400 0543 10 // (KL-0482-412 A INA) Locking Pin for Crankshaft For locking the crankshaft.</p>	1		83 95 352 * ^A KM-929 * ^A

*^A Alternative Tool

Scope of Delivery:

Part No./Description	Qty	Image	Cross Reference OEM Tool No.
INA No. 400 0544 10 // (KL-0482-413 A INA) Locking Pin for Injection Pump For locking the injection pump.	1		83 95 337 * ^A KM-927 * ^A
INA No. 400 0545 10 // (KL-0482-414 B INA) Adjustment Tool for Camshaft Sprocket For locking and positioning the camshaft.	1		83 95 394 * ^A KM-933 * ^A
INA No. 400 0550 10 // (KL-0482-4401 A INA) Locking Tool for Camshaft For locking the camshafts.	1	 <p>INA No. 400 0551 10 (KL-0482-4401-1 INA)</p> <p>2x INA No. 400 0552 10 (2x KL-0482-4401-2 INA)</p>	KM-6148 * ^A 2.000.000.900 * ^A 2.192.360.900 * ^A
INA No. 400 0553 10 // (KL-0180-3012) Retaining Pin, Ø 1.2mm For locking the timing chain tensioner.	1		KM-6077 * ^A
INA No. 400 0554 10 // (KL-0482-442 A INA) Locking Tool for Water Pump For locking the water pump pulley.	1		2.000.001.200 * ^A J-43651 * ^A KM-J-43651 * ^A
INA-Nr. 400 0575 10 // (KL-0180-1990-3 INA) Insert for Plastic Storage Case	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 the tools of the **INA No. 400 0578 10** // (KL-0180-191 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.