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If applicable, the applications database and any instructional information provided has been designed to offer general guidance for a particular tool's use and while all attention is given to the accuracy of the data no project should be attempted without referring first to the manufacturer's technical documentation (workshop or instruction manual) or the use of a recognised authority such as Autodata.

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7306_Instructions_V3

Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.



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LASER[®]

7306

Intermediate Lever Spring Removal Tool

BMW N13, N20, N26, N55



- Applications include: BMW 1 Series, 2 Series, 3 Series, 4 Series, 5 Series, 6 Series, X1 and X3.
- Engine codes include: N13 (1.6), N20 (1.6 and 2.0), N26 (2.0) and N55 (3.0) petrol engines.
- Equivalent to OEM 11 7 110.
- For engine timing kit see Laser 5740 for N55, Laser 6173 for N26 and N20, Laser 6814 for N13.
- Please note for BMW Mini N12, N16, N18 petrol engines please use Laser 7120 intermediate lever spring remover and installer kit.

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Intermediate Lever Spring Removal Tool

The 7306 is the essential special clamping tool required to safely remove and refit the Intermediate shaft control springs used on the VVT system found on the N13 (1.6), N20 (1.6 and 2.0), N26 (2.0) and N55 (3.0) BMW petrol engines.

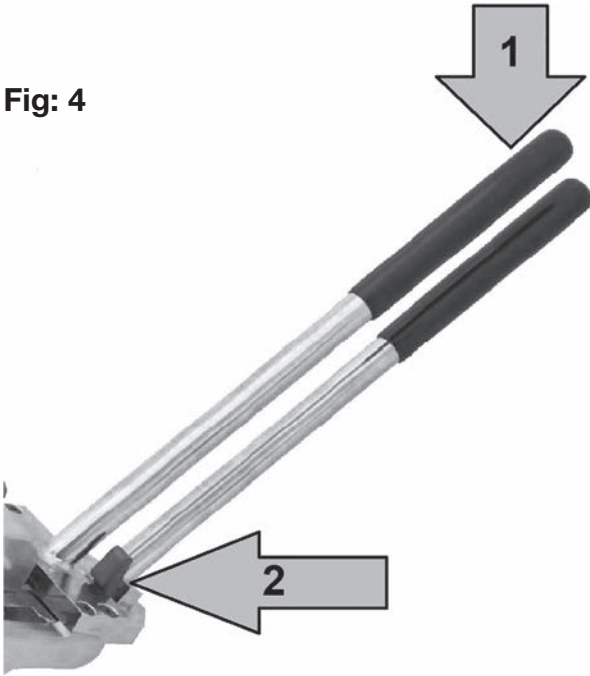
The Variable Valve Timing system on these vehicles utilises a system of sprung lever that if not properly restrained when being removed can easily flick off causing damage or injury. The 7306 tool is designed to be used in accordance with OEM instructions for safe and controlled removal and fitting of these springs.

Component

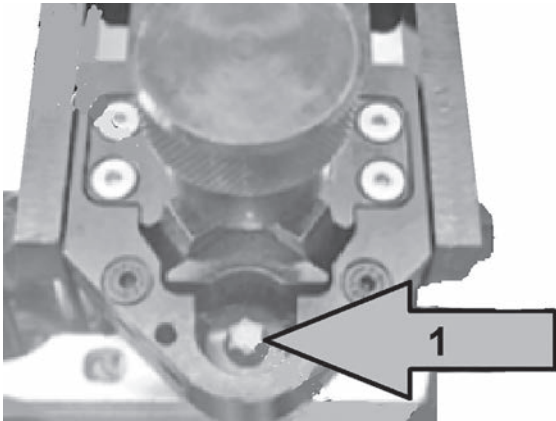


Ref	OEM	Description
A	11 7 110	Removal and Installation Tool

Close lever **(1)** shown in Fig: 4 down until latch **(2)** locks the 7306 in its closed position.



Once the 7306 is fixed into position and the spring is properly preloaded the spring fixing screw can now be removed.



With the Fixing removed hold the levers **(1 Fig: 4)** together and release the latch **(2 Fig: 4)**. Slowly release the spring load. Once fully released remove the 7306 and remove the spring.

Fitting is reversing of the above process.

Applications

Make	Model	Years	Type
BMW	1 Series	2011-2016	EfficientDynamics xDrive ActiveHybrid
	2 Series	2014-2018	
	3 Series	2009-2018	
	4 Series	2013-2016	
	5 Series	2010-2018	
	6 Series	2012-2018	
	7 Series	2012-2015	
	X1	2012-2015	
	X3	2012-2018	
	X4	2014-2018	
	X5	2012-2018	
	X6	2009-2018	
	Z4	2011-2018	

Engine Codes	
1.6	N13 B16A, N20 B16A
2.0	N20 B20, N20 B20A, N20 B20B, N20 B20B/U0, N20 B20O0, N26 B20, N26 B20A
3.0	N55, N55 B30A, N55 B30A/M0, N55 B30A/O0, N55 B30M0, N55 B30MO, N55 B30O0

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles manufactures own data or Autodata. The use of this Intermediate spring removal kit is purely down to the user's discretion and Tool Connection Ltd. cannot be held responsible for any damage caused what so ever.



Safety First. Be Protected.

Preparation

NOTE: when working with springs under tension safety glasses and protective gloves should be worn.

Removal of the intermediate lever springs requires:

- Ignition coils.
- Cylinder head cover removal.
- Follow OEM instruction with reference to preparation of servo motor stroke adjustment.

N.B. Always turn the engine in normal direction of rotation.

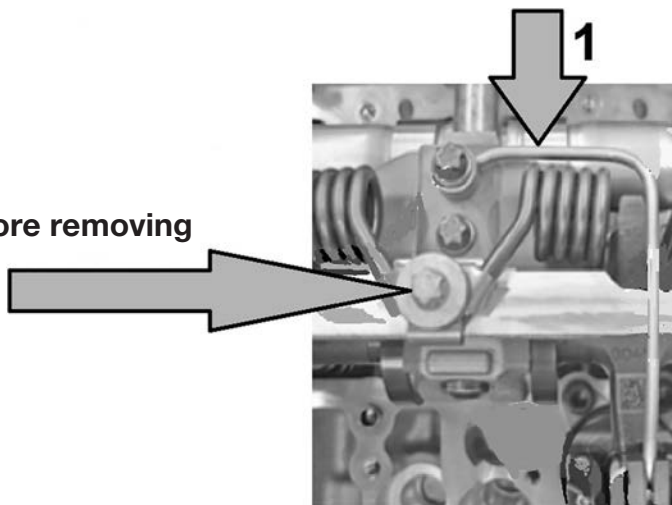
Instructions

WARNING: These instructions are given as a guide only, Please refer to OEM instructions before proceeding.

- Before removing the intermediate lever spring fixing screws Component **A** must be fitted to take the load off the spring.
- Remove the oil delivery pipe (1) shown in Fig: 1 to improve access.

Fig: 1

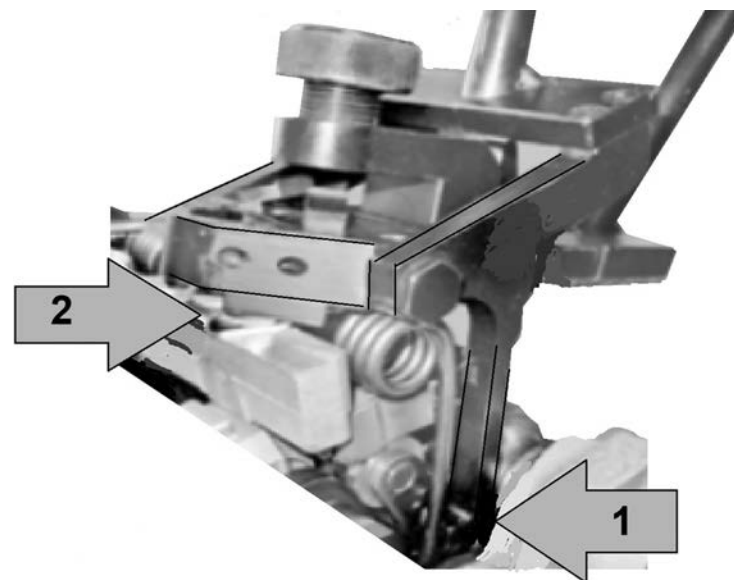
Fit 7306 before removing



Component A – Removal & Installation Tool

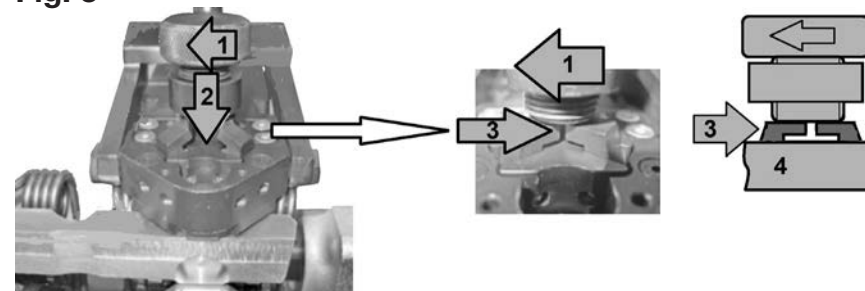
The removal and Installation tool (**A**) is used to take the load off the intermediate lever springs by compressing the spring. Fit 7306 as shown in Fig: 2 so the feet (1) push against the end of the spring. Ensure the spring fixing screw is correctly positioned and the base of the 7306 sits flat on the cylinder head at point (2).

Fig: 2



With the 7306 in place tighten the thumb screw (1) down on to the clamping levers (2) as shown in Fig: 3. Continue turning the thumb screw (1) until the clamping levers are parallel to the 7306 guide block (3) and (4) Fig: 3.

Fig: 3



NOTE: Ensure the 7306 is now clamped to the spring.