Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by the Tool Connection for incorrect use of any of our products, and the Tool Connection cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

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.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.

Safety First. Be Protected.

7120_Instructions_V1

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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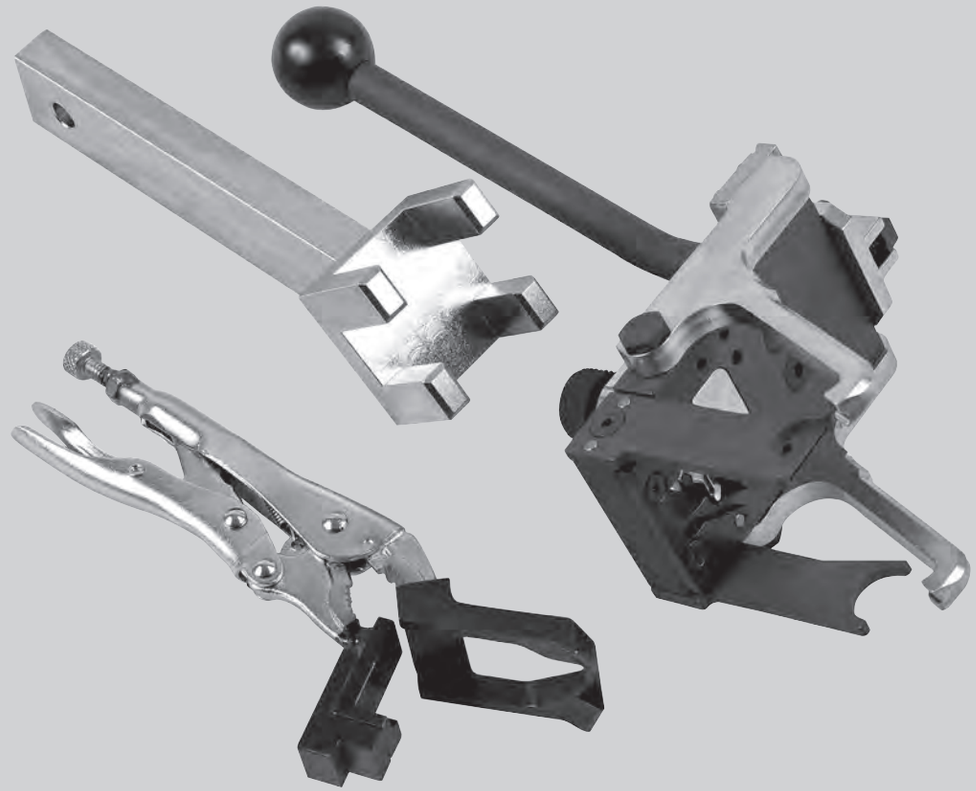
LASER®

7120

Intermediate Lever Removal/ Installer Kit



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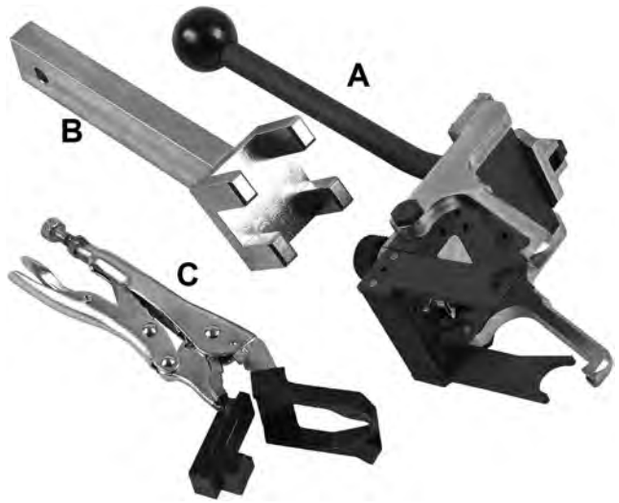
Intermediate Lever Spring Remover & Installer Kit – BMW-Mini N12, N16, N18 petrol engines

This kit is made up of the essential tools required to safely remove and refit the intermediate shaft control springs used on the VVT system found on the BMW, Citroen and Peugeot 1.4 and 1.6 16 valve engines.

Collectively these tools have the BMW MINI OEM number of 11 9 570.

Components



Ref	OEM	Description
A	11 9 571, 0197-3B1	Removal and Installation tool
B	11 9 572, 0197-3B2	Counter Support
C	11 9 573	Pliers

Component B – Counter Support Tool:

Component B is used to hold the spring while it is removed from the removal & instillation tool.

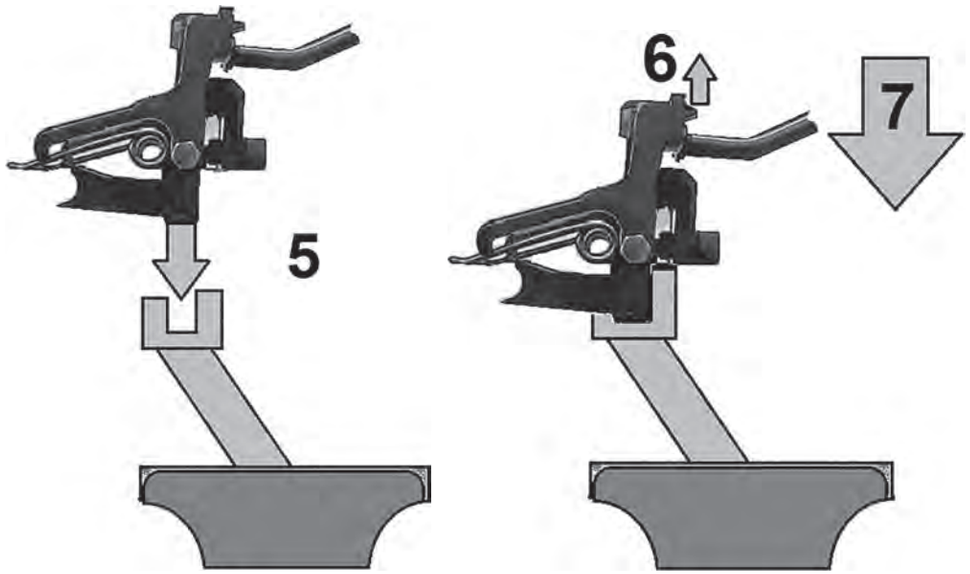
Mount **B** in a vice as shown (**5**), lower the removal tool and spring assembly into **B** as shown.

Take the load of the spring on the ball ended lever and release the latch (**6**) then lower the lever to release the spring (**7**).

Undo the knurled screw and remove the spring for storage.

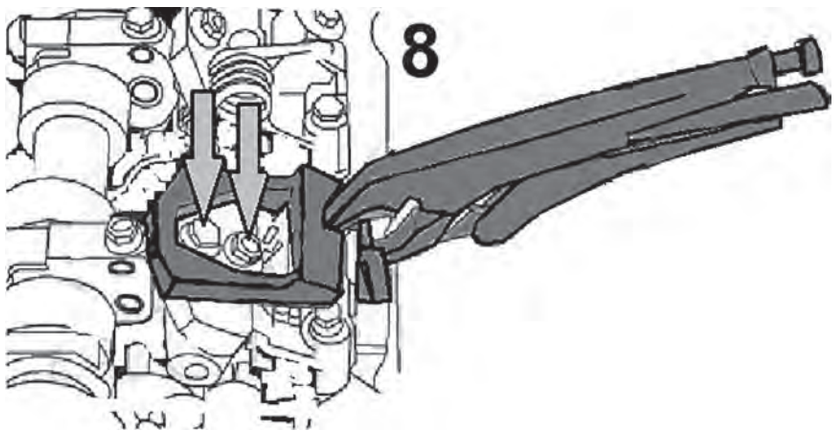
Use above process in reverse for fitting of the springs.

WARNING: do not let go of the lever until the load has been released.



Component C – Pliers:

Component C is used to pretension the roller camshaft follower guide blocks prior to removal or refiting their fixing bolts (**8**).



Applications

Make	Model	Engine	Years	Type
Mini	Clubman	(R55)	2007-2014	Cooper Cooper S JCW One/First
	Clubvan	(R55)	2012-2014	
	Countryman	(R60)	2010-2017	
	Coupe	(R58)	2011-2015	
	Mini One	(R56/57)	2006-2015	
	Paceman	(R61)	2013-2017	
	Roadster	(R59)	2012-2015	
Citroën	C3 Picasso		2009-2010	VTi THP VTi/S16 THP 156
	C4		2008-2015	
	C4 Picasso		2010-2015	
	C5		2009-2015	
	DS3		2011-2015	
	DS4		2011-2015	
	DS5		2012-2015	
Peugeot	207		2007-2015	
	208		2013-2015	
	3008		2009-2017	
	308		2007-2016	
	5008		2009-2015	
	508		2011-2015	
	RCZ		2011-2015	

Engine Code	
1.4	N12 B14, N12 B14AB
1.6	N12 B16A, N16 B16A, N16 B16A/M0, N16 B16K0, N16 B16M0, N16 B16U0, N18, N18 B16A, N18 B16A/M0, N18 B16C, N18 B16C/TO, N18 B16M0, 5FE (EP6CDT), 5FE (EP6CDTM), 5FN (EP6CDT), 5FP (EP6), 5FV (EP6CDT), 5FW (EP6), EP6 (5FW), EP6CDT (5FA), EP6CDT (5FE), EP6CDT (5FM), EP6CDT (5FN), EP6CDT (5FV)

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 eve

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

Preparation

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

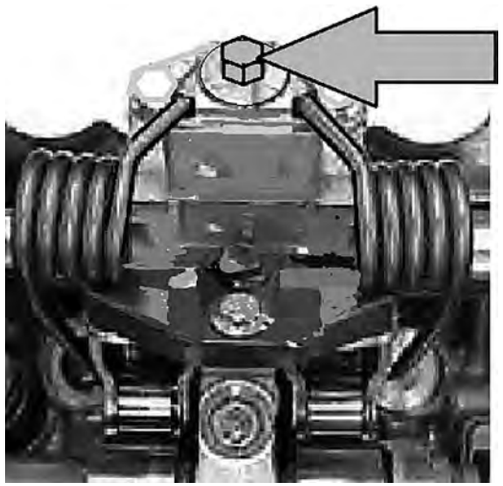
Removal of the intermediate lever springs requires:

- Ignition coils.
- Intake housing.
- Cylinder head cover removal.

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.*



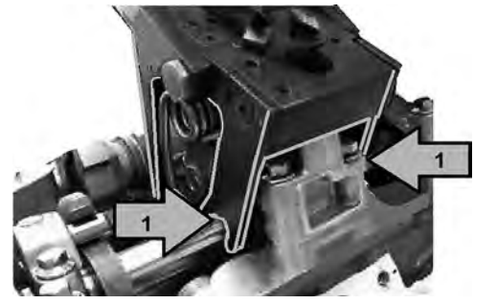
FIT COMPONENT A BEFORE REMOVAL

Component A – Removal & Installation Tool:

The removal and Installation tool (**A**) is used to take the load off the intermediate lever by compressing the spring. Fit the lever as shown so the fixed feet sit on the intermediate shaft (**1**).

Clamp the top centre section of the spring into the tool by tightening the knurled screw (**2**).

Check from underneath that the spring is seated correctly in the tool.



Using the ball ended lever press both ends of the spring back as shown (**3**). Continue levering the spring back until the tool locks into position.

WARNING: ensure the latch on the tool has locked fully into place before attempting to remove the spring from the engine.

Once locked, remove the holding screw from the spring through the tool (**4**) and remove the spring and tool assembly. Place the spring in the counter support tool.