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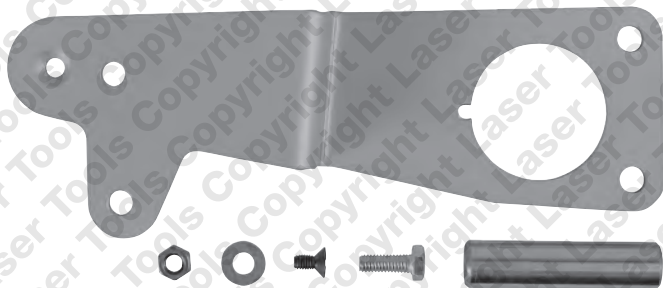
Part No. 6301



Crankshaft Holding Tool

BMW

Instructions



www.lasertools.co.uk

Introduction

This crankshaft locking and holding tool is designed to lock the crankshaft on the N47 (1.6, 2.0L) and N57 (3.0L) diesel engines found in the BMW range. It is specifically required when replacing or repairing the secondary drive chains.

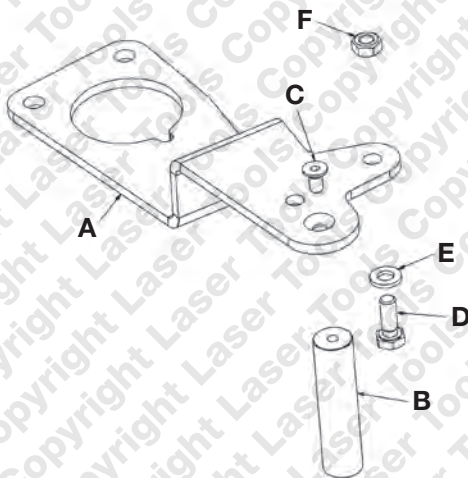
- Applications: BMW N47, N57 1.6, 2.0, 3.0 diesel engines (2007 - 2013).
- Equivalent to OEM 11 4 320, 83 30 2 318 429.
- For use with Laser Timing Tool Kit, Part No. 5196. The Laser 5196 kit provides all the camshaft and crankshaft timing tools required for camshaft primary drive chain replacement.
- For N47 engines built after 05/2013, use alternative tool - Laser 6964

The information given below is for reference only.

The Tool Connection Ltd recommends the use of Manufacturer data or Autodata.

The Tool Connection Ltd cannot be held responsible for damage to engine or personnel whilst using this tool kit.

Components



Ref.	Code	OEM Ref.	Description
A	C700	83 30 2 318 249 (Combined with 11 4 320)	Main Plate
B			Pin
C			Countersunk Screw
D			M6 x 16 Set Screw to DIN 933
E			M6 Washer
F			M6 Full Nut

Applications

The application list for this product has been compiled cross referencing the OEM Tool Code with the Component Code.

ALWAYS USE A REPUTABLE WORKSHOP MANUAL.

Applications

Make, Model, Body Codes, Year				Engine Codes
BMW	1 Series	(E81/82/87/88)	2007 - 2014 *	1,6
	1 Series	(F20/21)	2011 - 2015 *	N47 D16A
	2 Series Coupe	(F22)	2014 - 2016 *	N47 D16C
	3 Series	(E90/91/92/93)	2007 - 2014 *	2,0
	3 Series	(F30/31)	2012 - 2019 *	N47 D20A
	3 Series Gran Turismo	(F34)	2013 - 2020 *	N47 D20B
	4 Series Coupe	(F32)	2013 - 2020 *	N47 D20C
	4 Series Cabriolet	(F33)	2014 - 2020 *	N47 D20D
	4 Series Gran Coupe	(F36)	2014 - 2020 *	3,0
	5 Series	(E60/61)	2007 - 2010	N57 D30A
	5 Series	(F10/11)	2010 - 2017 *	N57 D30B
	5 Series Gran Turismo	(F07)	2009 - 2017 *	N57 D30C
	6 Series	(F12/13)	2011 - 2018	
	6 Series Gran Coupe	(F06)	2012 - 2018	
	7 Series	(F01/02/04)	2008 - 2015	
	X1	(E84)	2009 - 2015 *	
	X3	(E83)	2007 - 2010	
	X3	(F25)	2011 - 2017 *	
	X4	(F26)	2014 - 2018	
	X5	(E70)	2010 - 2013	
	X5	(F15)	2013 - 2018 *	
	X6	(E71)	2010 - 2014	
	X6	(F16)	2014 - 2019	

* for N47 engines built after 05/2013, use alternative tool - Laser 6964

BMW MINI	Clubman/Clubvan	(R55)	2010 - 2014 *	1,6
	Mini	(R56/57)	2010 - 2015 *	N47 C16A
	Coupe	(R58)	2011 - 2015 *	2,0
	Roadster	(R59)	2012 - 2015 *	N47 C20A
	Countryman	(R60)	2010 - 2017 *	
	Paceman	(R61)	2013 - 2017 *	

* for N47 engines built after 05/2013, use alternative tool - Laser 6964

Always refer to the website for most up to date applications: www.lasertools.co.uk/product/6301

www.lasertools.co.uk

Instructions

- Always refer to manufacturer specific data and instructions.
- Check ALL timing marks are aligned.

NB: The method of mounting this tool depends on the engine being worked on. Always refer to manufacturers' instructions for engine specific details.

Assemble as shown in **Fig. 1**.

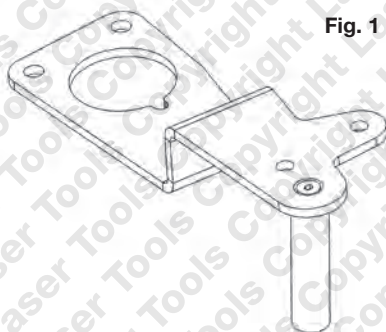


Fig. 1

Components D, E and F – used to lock the crankshaft in the correct position.

This position can vary depending on the engine being worked on.

Always refer to manufacturers' engine specific instructions.

Fig. 2 and **3** show the two possible positions of the tool which is dependent on the required crankshaft position.

For N57 S1 see **Fig. 3**.

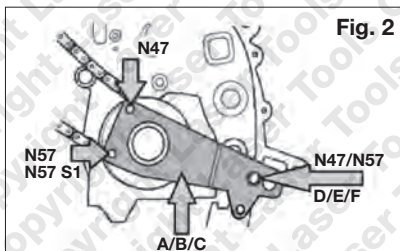


Fig. 2

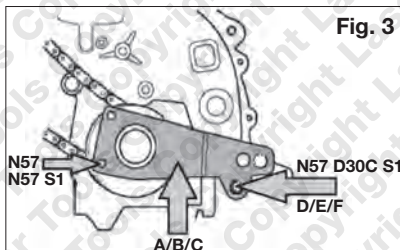


Fig. 3

Safety Precautions - please read

Incorrect or out of phase engine timing can result in damage to the valves. The Tool Connection cannot be held responsible for any damage caused by using these tools in anyway.

- Disconnect the battery earth leads (check radio code is available)
- Remove spark or glow plugs to make the engine turn easier
- Do not use cleaning fluids on belts, sprockets or rollers
- Always make a note of the route of the auxiliary drive belt before removal
- Turn the engine in the normal direction (clockwise unless stated otherwise)
- Do not turn the camshaft, crankshaft or diesel injection pump once the timing chain has been removed (unless specifically stated)
- Do not use the timing chain to lock the engine when slackening or tightening crankshaft pulley bolts
- Do not turn the crankshaft or camshaft when the timing belt/chain has been removed
- Mark the direction of the chain before removing
- It is always recommended to turn the engine slowly, by hand and to re-check the camshaft and crankshaft timing positions
- Crankshafts and Camshafts may only be turned with the chain drive mechanism fully installed
- Do not turn crankshaft via camshaft or other gears
- Check the diesel injection pump timing after replacing the chain
- Observe all tightening torques
- Always refer to the vehicle manufacturer's service manual or a suitable proprietary instruction book
- Incorrect or out of phase engine timing can result in damage to the valves

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.



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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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