

LASER[®]

Part No. 6840

Balance Shaft Alignment Tool

BMW B47/B48/N47

Instructions



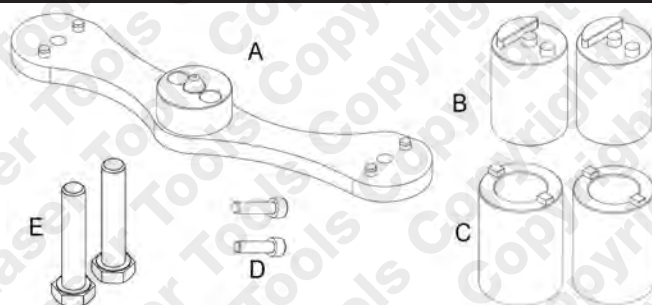
Specifically designed to offer an alignment solution for the BMW 1.6 and 2.0lt N47/B47 and B48 Diesel engines found across the BMW range from as early as 2008 up to 2016.

The kit combines the BMW N47 balance shaft locking tool and the B47/B48 locking tools into one simple tool.

The innovative EU registered design eliminates the requirement for a separate crankshaft alignment tool by combining the functionality of the OEM tools 11 8 790, 11 8 750 and 2 288 054 into one tool with interchangeable balance shaft alignment adaptors.

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Components



Ref.	Component	OEM	Description
A, B, C, D, E	C797	2 288 054	Base plate assembly, alignment boss and fixing screws and bolts.

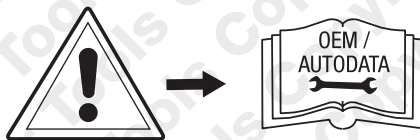
Applications

Make, Model, Year			Range	Engine Codes
BMW	1 Series	2007 - 2019	E81, 82, 87, 88; F20, 21	1,6 B48 B16 N47 D16
	2 Series	2014 - on	F22, 23	
	2 Series Active/ Gran Tourer	2014 - on	F45, 46	2,0 B47 C20 B47 D20 B48 A20 B48 B20 N47 D20
	3 Series	2007 - on	E90, 91, 92, 93; F30, 31, 34; G20, 21	
	4 Series	2013 - 2020	F32, 33, 36	
	5 Series	2007 - on	E60, 61; F07, 10, 11; G30, 31	
	6 Series GT	2017 - on	G32	
	7 Series	2015 - on	G11, 12	
	X1	2009 - 2015	E84; F48	
	X2	2018 - on	F39	
	X3	2007 - on	E83; F25; G01	
	X4	2014 - on	F26; G02	
	X5	2013- 2015	F15	
	Z4	2019 - on	G29	
Mini	Clubman	2015 - on	F54	
	Convertible	2016 - on	F57	
	Countryman	2017 - on	F60	
	Mini Hatch	2014 - on	F55, F56	

Always refer to the website for most up to date applications: www.lasertools.co.uk/product/6840

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles manufacturers own data or Autodata.

The use of this tool is purely down to the user's discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused what so ever.



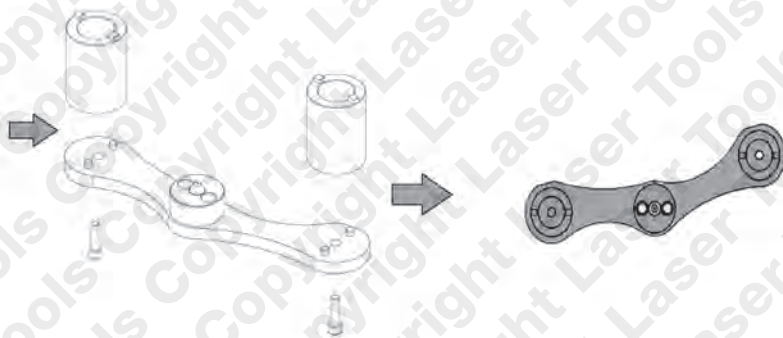
Instructions

With the engine removed from the vehicle remove;

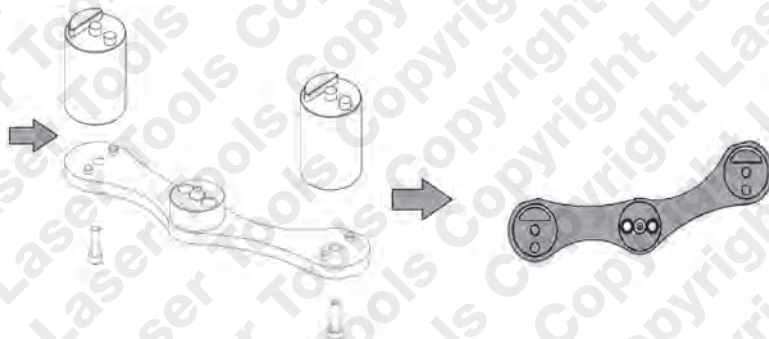
- Sump
- Oil pump
- Flywheel

Assemble the tool according to the type of drive used on the end of the balance shafts. Use the following as a guide:

Component A+C+D = N47
engines up to 2013

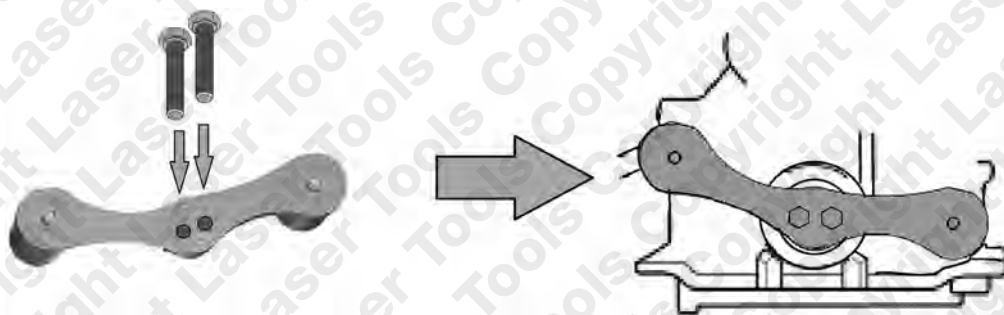


A+B+D = N47/B47/B48
engines after 2013



Fitting Balance shaft alignment tool:

With the crankshaft set to BDC (Bottom Dead Centre) on No1 cylinder and the balance shaft weights facing toward the sump fit the balance shaft alignment tool.



Safety First. Be Protected.

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.



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