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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.

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.

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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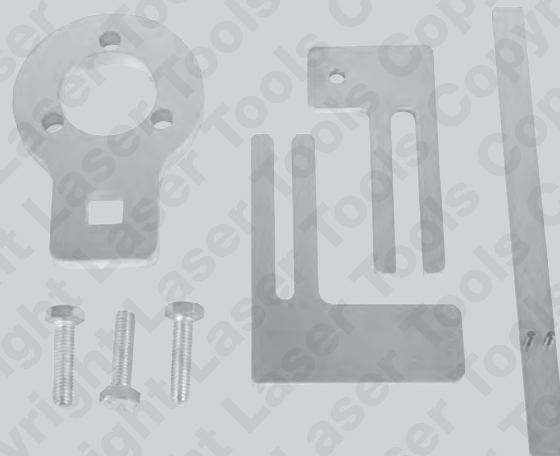
LASER®

6287

Balance Shaft Setting Tools

BMW

Instructions



6287 - Balance Shaft Setting Tools

A kit specifically designed to set the balance shafts on BMW engines when the balance shafts have been disturbed (see application list).

Components

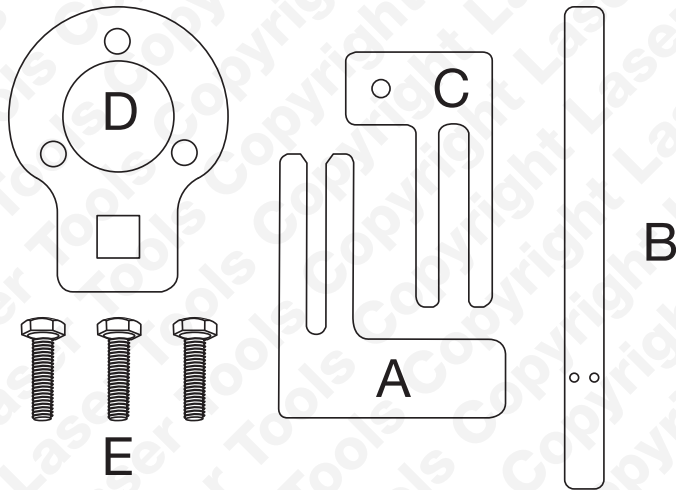


Figure 1

Ref	OEM Ref	Description
A	11 8 700	Balance shaft alignment, fork type.
B	11 5 140	Balance shaft alignment bar, flat type.
C	11 9 330	Balance shaft alignment, fork type.
D	11 9 280	Vibration damper (crankshaft pulley) holding tool.
E		Set Screws (x 3) for vibration damper holding tool.

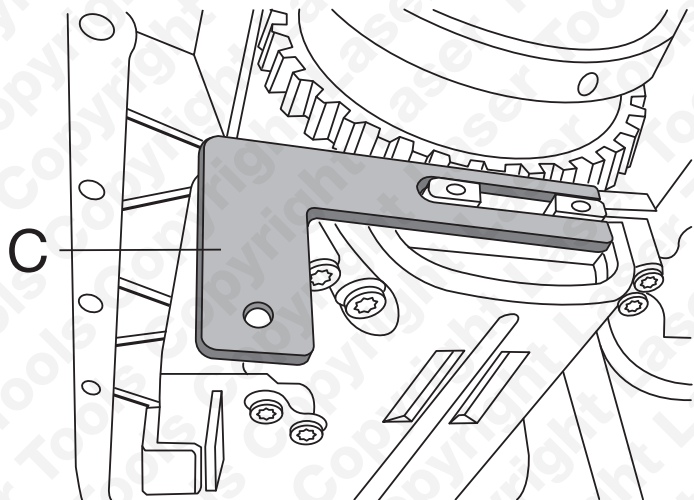


Figure 4

Refer to Figure 4:

- Rotate the balancing shafts until **Tool C** can be pushed from inlet side over ends of balancing shafts.
- Balancing shafts are now locked off and secured.

Applications

N.B. The information given below is for reference only. We recommend the use of Manufacturer data or Autodata.

We cannot accept responsibility for damage or personal injury caused by the use of the kit how so ever caused.

Tool	OEM Ref	Engine Codes
A	11 8 700	N43
B	11 5 140	N45, N46, N46T
C	11 9 330	N40, N42, N45, N46

Type/Chassis	Model	Year
1 Series	116i	2004-2015
	118i	
	120	
3 Series (E46)	316i	2001-2004
	316ti Compact	
	318i	
3 Series (E90/91/92/93)	318ti Compact	2005-2015
	316i	
	318i	
5 Series (E60/61)	320i	2007-2010
	320si	
	520i	
X1 (E84)	sDrive 18i	2010-2012
X3 (E83)	xDrive 20i	2005-2010
Z4 (E85/86)		2004-2009

Ref	OEM Ref
1.6	N45 B16A, N45T B16AC
1.8	N42 B18A, N46 B18
2.0	N46 B20B, N46T B20, N46T B20Bz, N46T B20O2 N42 B20A, N46 B20, N46T B20BD, N45 B20AA, N46T B20B

Instructions

There are three alignment tools included which are suitable for the three different versions of balance shaft setting up on these engines (refer to engine code). The correct tool must be selected for the type of balance shaft system that is fitted to the engine. You must follow the vehicle manufacturer's documentation and instructions on how to fit and/or set up the balance shafts using the following as a guide.

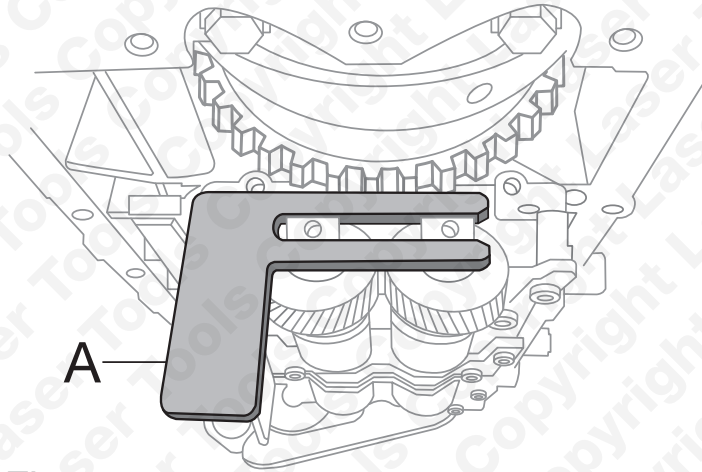


Figure 2

Refer to Figure 2:

- Align balance weights of balancing shafts.
- Both balance weights point to oil sump.
- Slide in **Tool A** over the ground surfaces on the balancing shafts.
- Balancing shafts are now locked off and secured.
- Do not remove **Tool A** until the oil pump gear is fitted and secured.

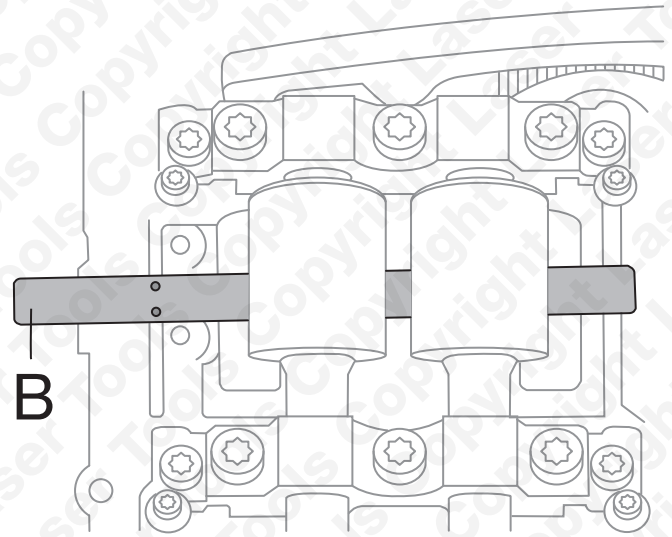


Figure 3

Refer to Figure 3:

- Slide in **Tool B** under the balancing shafts at the ground contact faces as far as it will go.
- Balancing shafts are now locked off and secured.