

LASER[®]

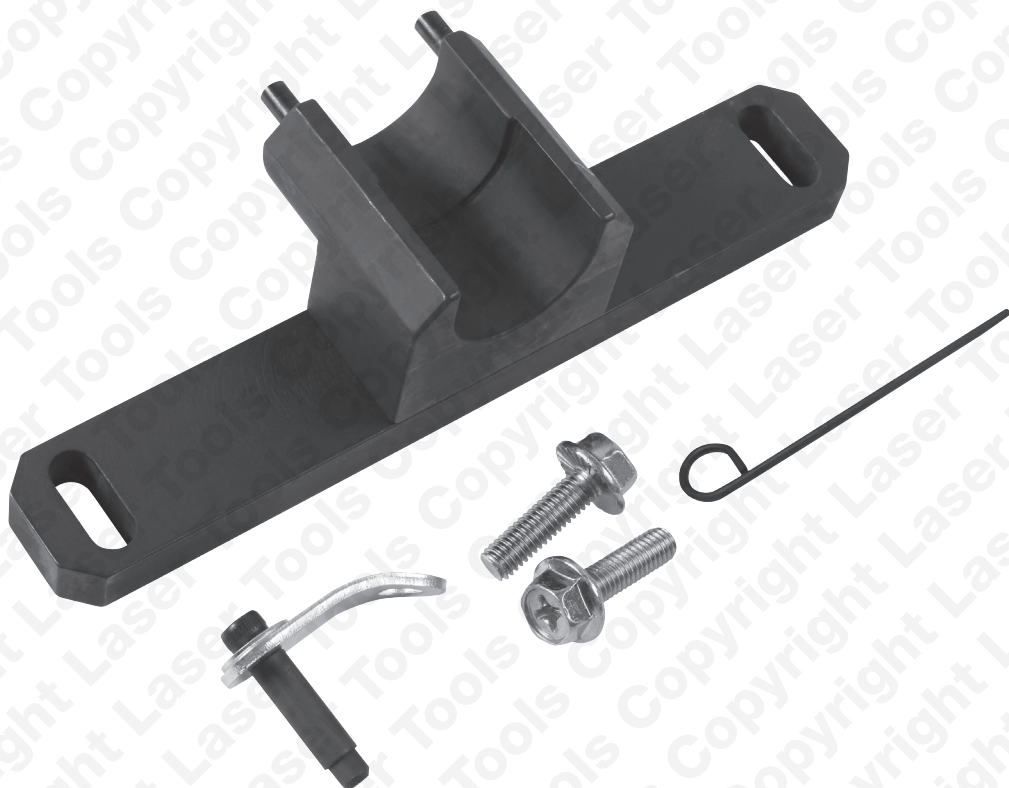
Part No. 7299

Balance Shaft & Oil Pump Alignment Kit

BMW N20



Instructions



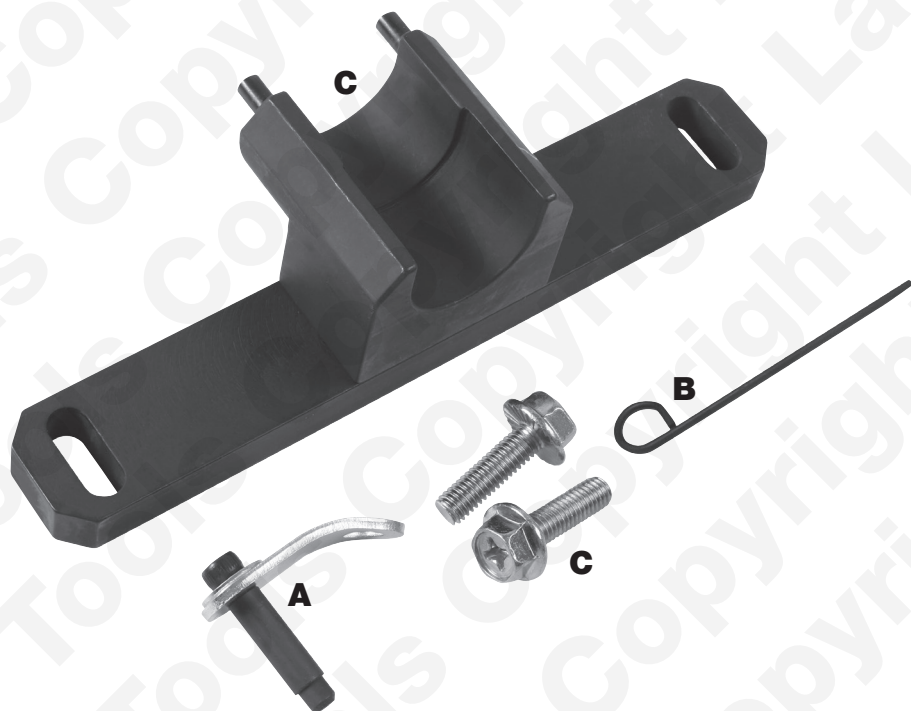
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Introduction

Developed to align the balance shafts into the correct timed position and also to lock the drive sprocket for removal and replacement of the oil pump and balance shaft housing.

Laser 6173 Timing Kit can be used in conjunction with this kit.

Components



Ref.	Comp. Code	OEM Ref.	Description
A	C869	2 212 825	Balancer Shaft Locking Tool
B	C852	11 4 120	Tensioner Retaining Pin
C	C870	2 318 117	Sprocket Locking Tool

Applications

Manufacturer	Model	Sub Model	Range	Year	Engine Codes
BMW	1 Series	125i	(F20/21)	2012 - 2016	1.6
	2 Series Coupe	220i, 228i	(F22)	2014 - 2016	N20 B16A
	2 Series Cabriolet	220i, 228i	(F23)	2015 - 2016	2.0
	3 Series	320i, 328i/xDrive	(F30/31)	2012 - 2015	N20 B20
	3 Series Gran Turismo	320i, 328i/xDrive	(F34)	2013 - 2016	N20 B20A
	4 Series Coupe	420i, 428i/xDrive	(F32)	2013 - 2016	N20 B20B
	4 Series Cabriolet	420i, 428i/xDrive	(F33)	2014 - 2016	N20 B20B/U0
	4 Series Gran Coupe	420i, 428i/xDrive	(F36)	2014 - 2016	N20 B20O0
	5 Series	520i, 528i/xDrive	(F10/11)	2010 - 2017	N26 B20
	5 Series Gran Turismo	528i	(F07)	2013 - 2016	N26 B20A
	X1	sDrive16i, 18i, 20i, xDrive20i, 28i	(E84)	2011 - 2015	
	X3	sDrive18i, 20i, xDrive20i, 28i	(F25)	2011 - 2017	
	X4	xDrive20i, 28i	(F26)	2014 - 2018	
	X5	xDrive40e	(F15)	2015 - 2018	
	Z4	sDrive18i, 20i, 28i	(E89)	2011 - 2017	

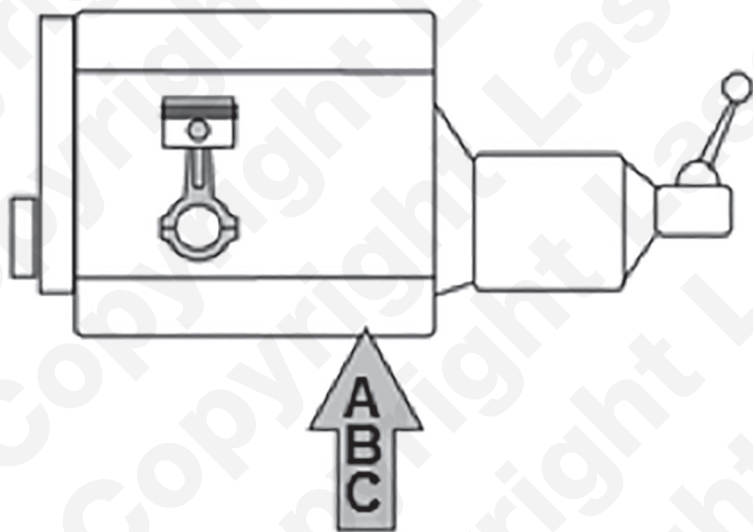
The following instructions are for guidance only. Please refer to OEM derived data such as the vehicle manufacturers' own data or Autodata.

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

Where used



Preparation

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

Do not use timing tools to torque or loosen fixings against unless otherwise stated.

Removal and replacement of the timing chain, balance shafts, oil pump and oil pump drive chain will require sump removal.

Instructions

Component A

With the sump removed and the engine in its timed position. Remove blanking plug (Fig. 1) and install balance shaft locking pin and secure (Fig. 2). If component **A** cannot be fitted, the timing must be readjusted.

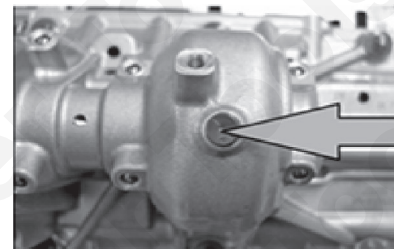


Fig. 1

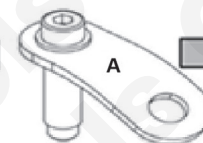


Fig. 2

Component B

Push back chain tensioner with tensioner rail and install tensioner retaining pin as shown (Fig 3).

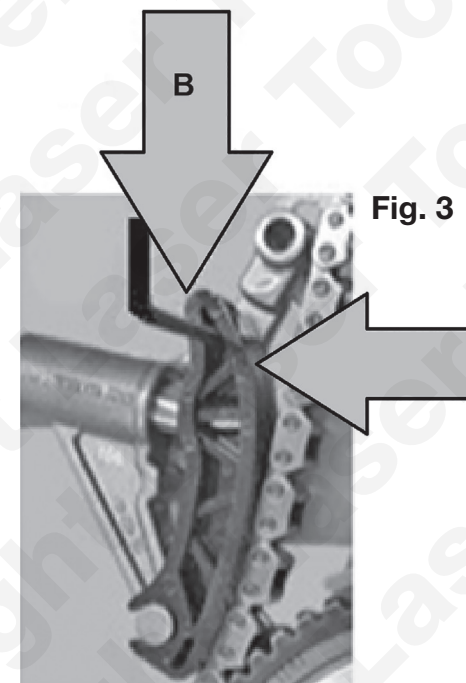


Fig. 3

Instructions

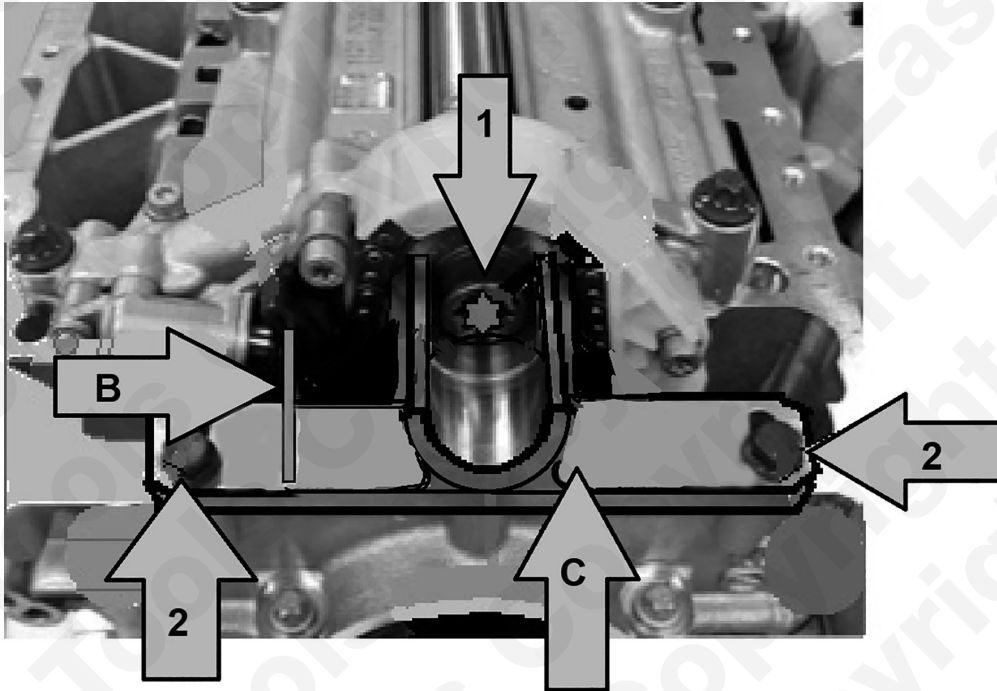
Component C

Locking tool (C) (Fig. 4) must be correctly fitted into the sprocket and secured to the engine block, before attempting to loosen the securing bolt (No. 1).

Install locking tool (C) and secure to cylinder block with bolts (No. 2).

Remove the sprocket bolt (No. 1).

Fig. 4



Note:

Renew securing bolt (No. 1).

Safety Warnings - Please Read

- Personal protection and safety equipment must be used at all times.
- Remove damaged tools from use.
- Store in a dry place when not in use.

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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.



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When you have finished with this tool, please recycle it.

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