

Applications

Make	Model	Type	Year
BMW	1 Series	118i	2006-2014
	1 Series	120i	2006-2014
	1 Series	116i	2007-2012
	3 Series	316i	2007-2011
	3 Series	318i	2007-2014
	3 Series	320i	2007-2014
	5 Series	520i	2007-2010

Engine Code	
1.6	N43 B16A/AA, N43 B16AA/00, N43 B16AA
2.0	N43 B20AY, N43 B20A, N43 B20A/AA, N43 B20K0, N43 B20AA, N43 B20U0

Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by Sonic for incorrect use of any of our products, and Sonic 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.



Instructions

Engine Timing Kit  
BMW Petrol N43 - 1.6, 2.0



## 829029 - Engine Timing Kit

### Description:

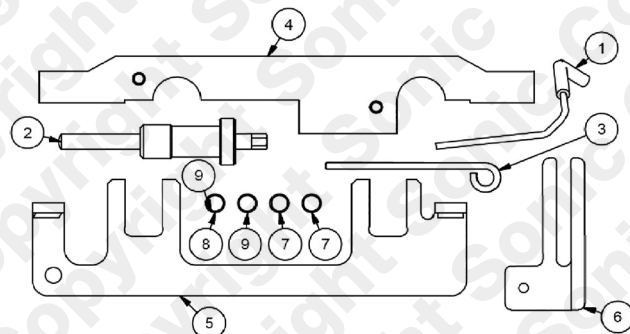
The 829029 has been developed to allow the user to lock the camshafts and crankshaft in position on the BMW N43 Chain Driven Petrol Engines.

The N43 engines are found in 1.6 and 2.0 versions from around 2006 up to the present day.

This is a 7 piece kit (not including fixings) which include a camshaft alignment tool/locking plate, a camshaft sensor alignment tool, a crankshaft setting/locking pin, a timing chain pre tensioning tool, a balance shaft locking plate and 2 tensioner locking pins.

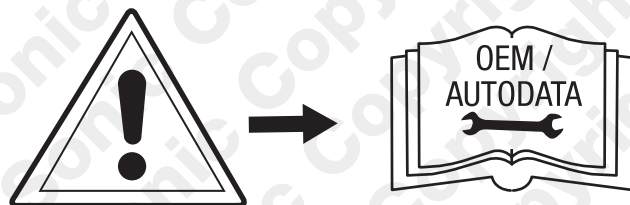
## Components

Ref	Comp	OEM	Description
1	4880025	11 5 120	Flywheel Setting Pin
2	4880026	11 9 340	Timing Chain Pre-Tensioner Tool
3	488	11 3 340	4mm Tensioner Setting Pin
4	4880257	11 8 710 (11 8 711 11 8 712)	Camshaft Position Sensor Disc Alignment Tool
5	4880256	11 8 690 (11 8 691 11 8 692, 11 8 693)	Camshaft Alignment Tool
6	4880258	11 8 700	Balancer Shaft Alignment Tool
7			M6 x 16 Hex Bolts x2
8			M6 x 30 Hex Bolts x2
9			Washers x4

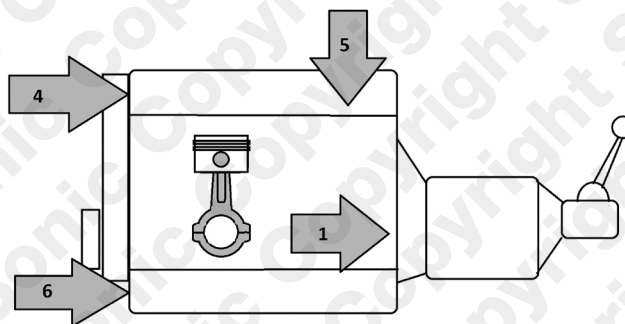


## Instructions

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 these engine timing tools is purely down to the user's discretion and Sonic cannot be held responsible for any damage caused what so ever.



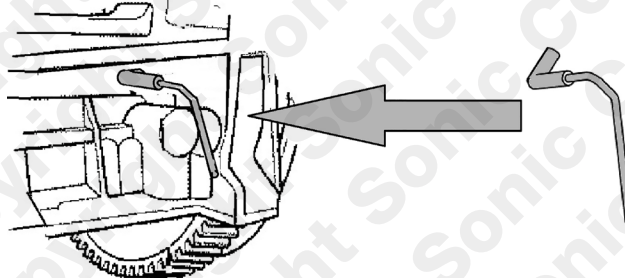
## Instructions



### Component 1 - Crankshaft Locking Pin

Component 1 is used to lock the flywheel with the crankshaft at TDC number 1 cylinder.

NB: do not tighten or loosen fixings against component 1.



### Component 2 - Chain Tensioner Pre-Load Tool

Component 2 is provided to allow the user to release the tension on the camshaft chain tensioner which is particularly required when

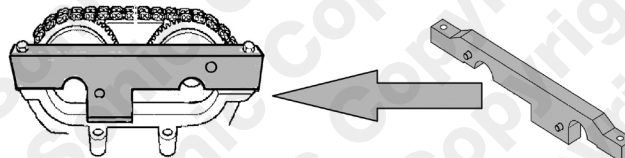
- Removing or replacing the Cam chain

### Component 3 - 4mm Tensioner Setting Pins

Component 3 is used to lock the chain tensioners in their retracted position.

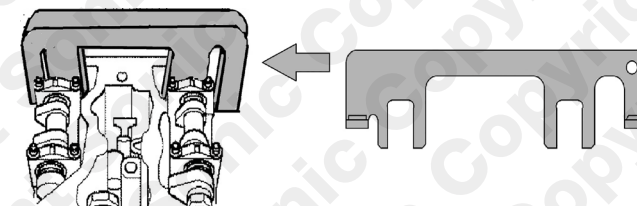
### Component 4 - Camshaft Position Sensor Disc Alignment Tool

Component 4 is designed to align the VANOS sensor to ensure the VANOS system will function correctly.



### Component 5 - Camshaft Alignment Tool

Component 5 is used to align the camshafts as shown with the engine set at TDC.



### Component 6 - Balancer Shaft Alignment Tool

Component 6 is used to align the balance shafts as shown.

