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The Complete Connection

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Guarantee

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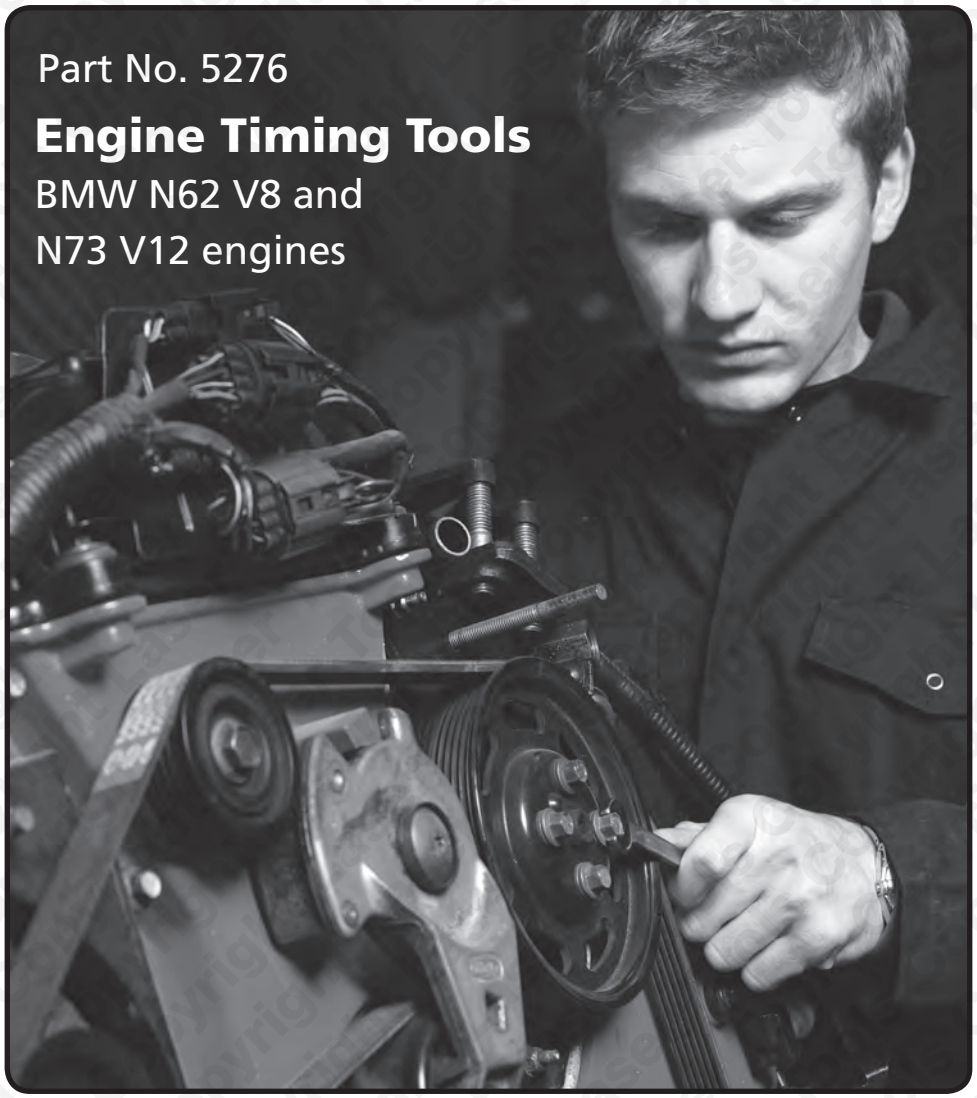

Part No. 5276

Engine Timing Tools

BMW N62 V8 and
N73 V12 engines

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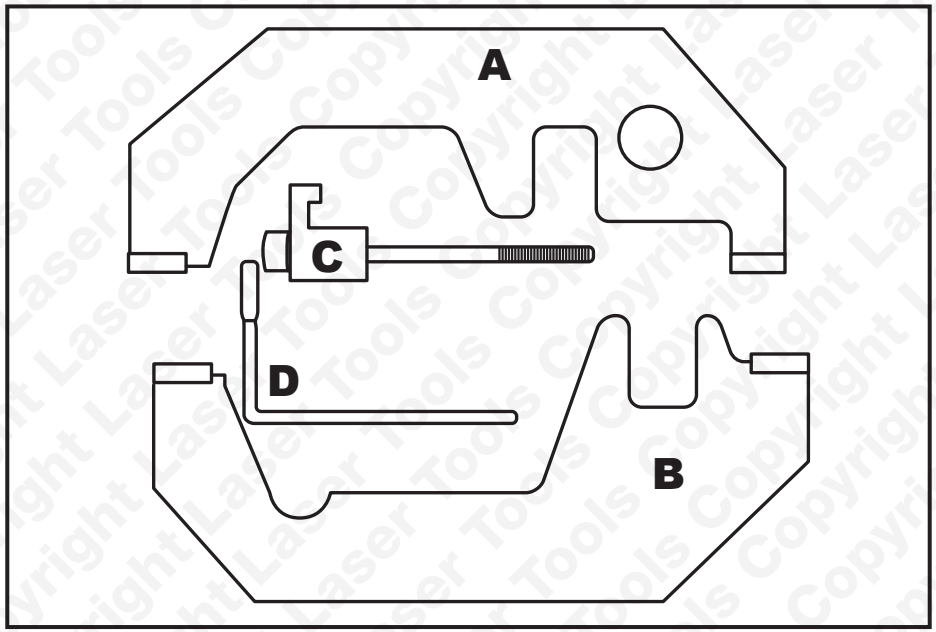
Plan Layout



Ref	Code	OEM Ref	Description
A	C542	11 9 461	Inlet Camshaft Setting Tool
B	C543	11 9 462	Exhaust Camshaft Setting Tool
C	C544	11 9 463	Holding screw for Camshaft tools
D	C327	11 9 190	Crankshaft Pulley Setting Tool

Warning

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.

Safety Precautions – Please read

- If the engine has been identified as an Interference engine, damage to the engine will occur if the timing belt has been damaged. A compresion check of all the cylinders should be taken before the cylinder head (s) are removed.
- Do not turn crankshaft or camshaft when the timing belt has been removed
- To make turning the engine easier, remove the spark plugs
- Observe all tightening torques
- Do not turn the engine using the camshaft or any other sprocket
- Disconnect the battery earth lead (Check Radio code is available)
- Do not use cleaning fluids on belts, sprockets or rollers
- Do not lever or force the belt onto its sprockets
- Check the ignition timing after the belt/chain has been replaced.
- Do not use timing pins to lock the engine when slackening or tightening the crankshaft pulley bolts
- ALWAYS REFER TO A REPUTABLE MANUFACTURERS WORKSHOP MANUAL

Applications

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

In most cases the tools are specific to this type of engine and are necessary for Cam belt or chain maintenance.

If the engine has been identified as an interference engine valve to piston damage will occur if the engine is run with a broken Cam belt.

A compression check of all cylinders should be performed before removing the cylinder head.

Always consult a suitable work shop manual before attempting to change the Cam belt or Chain.

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

ALWAYS USE A REPUTABLE WORKSHOP MANUAL

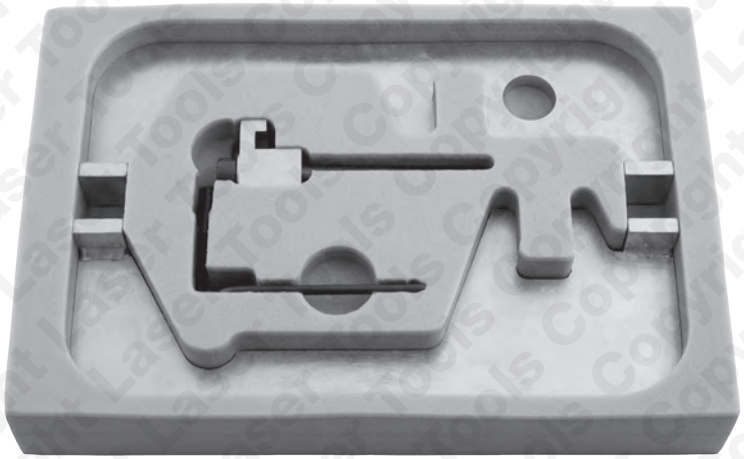
Manufacturer	Mode	Sizes	Engine Code	Type	Year
BMW	735i	3.6	N62 B36A	E65/66	02-05
	540i	4.0	N62 B40A	E60/61	05-10
	740i	4.0	N62 B40A	E65/66	05-08
	545i	4.4	N62 B44A	E60/61	03-06
	650i	4.4	N62 B44A	E63/64	03-06
	745i	4.4	N62 B44A	E65/66	02-05
	X5 4.4	4.4	N62 B44A	E53	03-07
	X5 4.8	4.8	N62 B48A	E53	04-07
	550i	4.8	N62 B48B	E60/61	05-10
	650i	4.8	N62 B48B	E63/64	05-10
	750i	4.8	N62 B48B	E65/66	05-08
	X5 4.8	4.8	N62 B48B	E70	06-10
	760	6.0	N73 B60A	E65/66	02-08

BMW N62 V8 and N73 V12 engines

Developed for BMW N62 V8 and N73 V12 engines

This kit holds the valve timing whilst maintaining the correct timed position of the Camshafts and Crankshaft.

N.B The information given below is for reference only. Laser Tools recommend the use of manufacturer's data or Autodata.



Preparation

- The valve timing should be set at top dead centre on number one cylinder
- Removal and installation of the timing chains requires:

1. the engine to be removed from the vehicle
2. the cylinder heads to be removed
3. the sump to be removed
4. the flywheel to be removed

Instructions – BMW N62 V8 and N73 V12 engines

Component Descriptions

Component A

Inlet Camshaft Setting Tool – use to hold the inlet camshaft in position. When checking engine timing or changing the timing chains turn the crankshaft to ensure D can be fitted into the timing slot on the front pulley as shown.

Once D is in place the inlet camshaft tool should fit as shown on to the LH inlet camshaft. The timing is correct as long as A touches or is within 0.5 mm of the cylinder head on the exhaust side and touching on the head on the inlet side. To hold (A) in place use component (C)

Component C

Holding screw for camshaft timing tools – (C) locates in the thread for the oil line between the camshaft. It is used to hold the camshaft setting tools in place whilst loosening and tightening the camshaft adjust nuts. Fig. 2

Component B

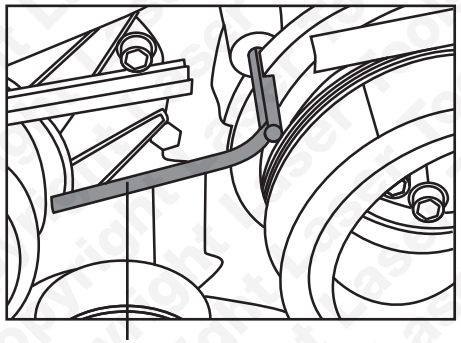
Exhaust Camshaft Setting Tool – use to hold the exhaust camshaft in position. With (D) in place as shown and (A) removed fit (B) on to the LH exhaust camshaft. The timing is correct as long as C touches or is within 0.5 mm of the cylinder head on the exhaust side and touching on the head on the inlet side.

Component D

Crankshaft Pulley Setting tool – fits as shown above.

Repeat the above process for the RH side cylinder bank.

For adjustment procedure please refer to manufacturers instructions



D Crankshaft Pulley Setting Tool