

Engine Timing Tool Set Mercedes-Benz 1.6L / 2.0L Diesel (M654)

TOOLS

- 1 Crankshaft turning tool,
to be used as OEM 654 589 00 40 00
- 2 Camshaft locking tool,
to be used as OEM 654 589 01 40 00
- 3 Crankshaft alignment block,
to be used as OEM 654 589 00 21 00
- 4 Crankshaft alignment pin,
to be used as OEM 654 589 00 21 00



ATTENTION

Read the operating instructions and all safety instructions contained therein carefully before using the product. Use the product correctly, with care and only according to the intended purpose. Non-compliance of the safety instructions may lead to damage, personal injury and to termination of the warranty. Keep these instructions in a safe and dry location for future reference. Enclose the operating instructions when handing over the product to third parties.

INTENDED USE

This engine timing tool set is used for checking and setting the engine timing on Mercedes-Benz engine series M654 (see vehicle list).

More information regarding this item and a list of suitable engines and models can be found on our website: www.bgstechnic.com

SAFETY INFORMATION

- Keep children and other persons away from the working area.
- Do not allow children to play with this tool or its packaging.
- Do not use the tool if parts are missing or damaged.
- Use the tool for the intended purpose only.
- Never place the tool on the vehicle battery. There is a risk of a short circuit.
- Be careful when working on running engines. Loose clothing, tools and other objects can be caught by rotating parts and cause serious injury.
- Be careful when working on hot engines because of the risk of burn injuries!
- If you remove the ignition key before repairing, you can prevent the engine from being started accidentally, engine damage and personal injuries.
- This manual serves as a brief guide and does not replace a workshop manual. Always refer to the vehicle-specific service literature, particularly the technical data such as torque values and instructions for disassembly/assembly, etc.
- After repair or before starting the engine, turn a minimum of 2 turns by hand and check the timing again.
- Turn the engine only in the normal direction of rotation (clockwise unless otherwise specified)
- Do not use locking tools for camshaft and crankshaft as a counter-holder, during loosening or tightening screws on pulley, camshaft or crankshaft. This can damage tools and engine components. Only use tools that are suitable for this purpose.

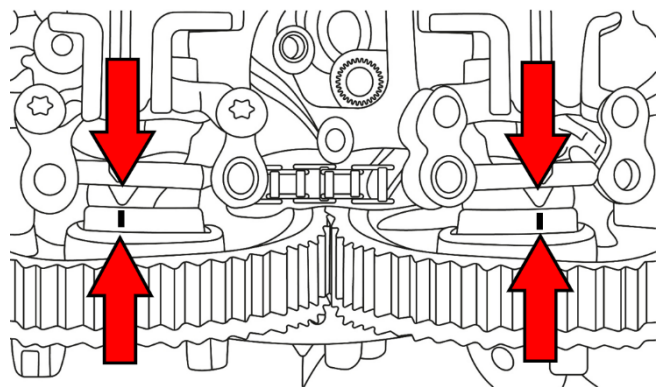
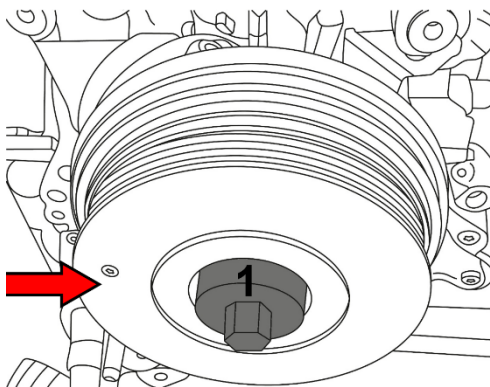
VEHICLE LIST

Manufacturer	Model	Year	Engine
Mercedes-Benz	A-Klasse	2019-	1.6L (654.916) 2.0L (654.920)
	B-Klasse	2019-	
	C-Klasse	2018-	
	CLA	2019-	
	CLS	2018-	
	E-Klasse	2016-	
	GLB	2019-	
	GLC Coupe	2019-	
	GLE	2019-	
	V-Klasse	2019-	
	Vito	2019-	

USE

Crankshaft Turning Tool (1)

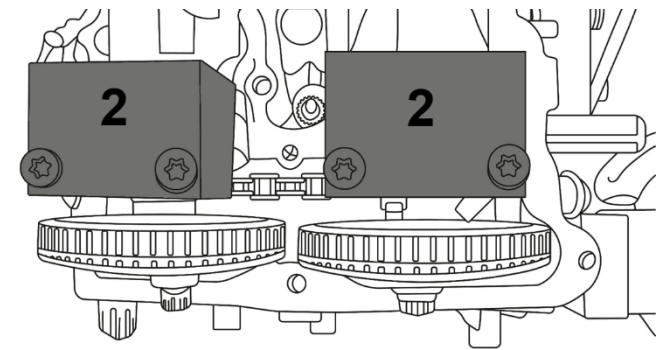
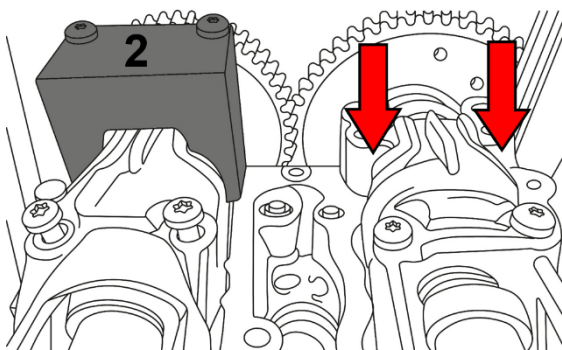
Use the crankshaft turning tool (1) with a ring or socket wrench to turn the crankshaft until the camshaft timing marks align with those on the camshaft bearing caps.



Camshaft Locking Tools (2)

Place the camshaft locking tools (2) perpendicular to the camshaft flats. Both camshaft locking tools must be flush with the camshaft carrier surface on both sides. If this is not the case, loosen the camshaft sprockets and turn the camshafts until both camshaft locking tools are correctly seated.

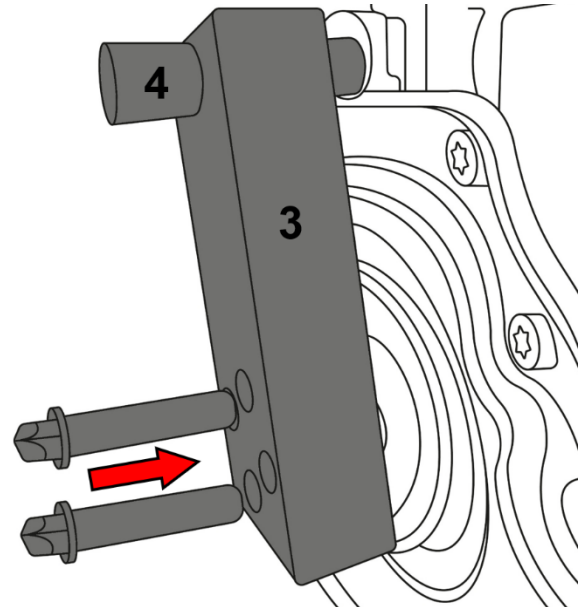
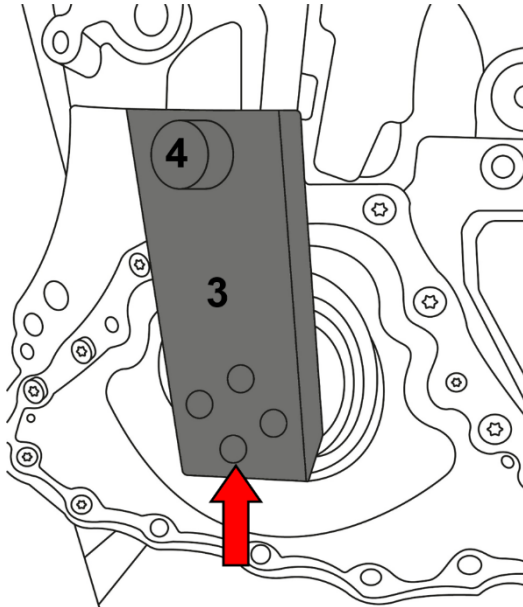
Caution: The bolts on the intake camshaft sprocket have a left-hand thread.



USE

Crankshaft Alignment Block (3) and Crankshaft Alignment Pin (4)

Check that the pulley timing marks still align and remove the pulley. Place the crankshaft alignment block (3) onto the crankshaft and ensure that the pin (4) fits through the alignment block into the engine block. Secure the alignment block with the two pulley mounting bolts.



ENVIRONMENTAL PROTECTION

Recycle unwanted materials instead of disposing of them as waste. Packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. Contact your local solid waste authority for recycling information.



NOTES

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