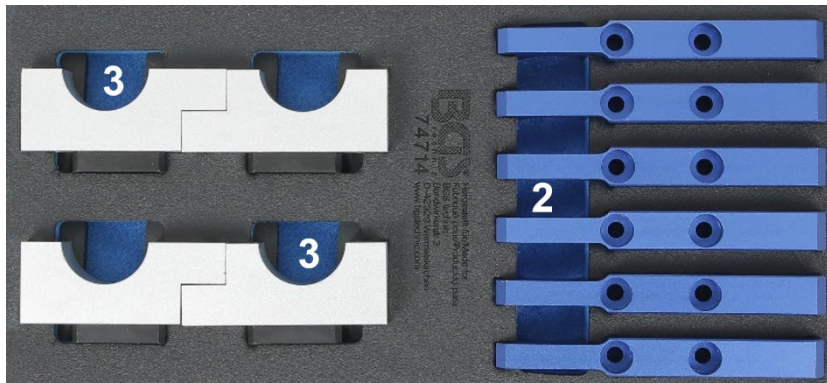


Camshaft Alignment Tool Set for Mercedes M176 / M177



TOOLS

- 2 Camshaft alignment tool, to be used as OEM 177589024000
- 3 Camshaft holding tool, to be used as OEM 177589024000

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 tool set is used for aligning and holding the camshafts on the Mercedes V8 gasoline engine M176 and M177, installed in models W217 and W222 (2019-). For additional work, such as installing the timing chain, the Engine Timing Tool Set BGS 70113 is also required.

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

SAFETY INFORMATIONS

- 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 and resulting in 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.

SAFETY INFORMATIONS

- 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.

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. Dispose of this product at the end of its working life environmentally.

**SETTING**

- Turn the crankshaft clockwise in the normal direction of rotation and set the first cylinder 40° after TDC.
- Dismantle the cylinder head covers.
- Mount camshaft holding tools (2).
- Mount the camshaft alignment tools (3).
- When working on the timing chain, the tool set BGS 70113 is required.
- Tool (1) is included exclusively in the tool set BGS 70113.

