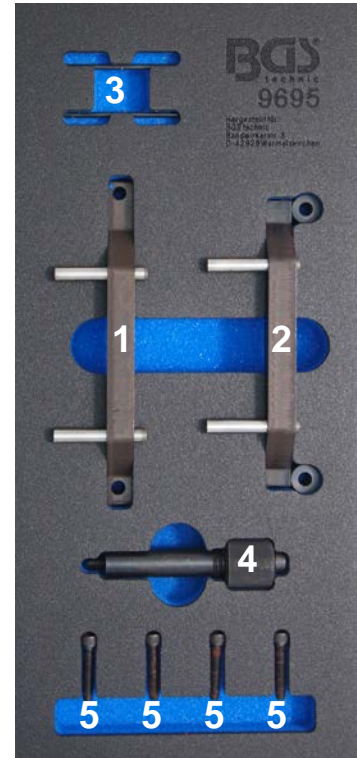


Engine Timing Tool Set for Jeep 3.0 V6 Diesel



TOOLS

- 1 Camshaft Locking Tool RH Bank, to be used as OEM VM10338-1
- 2 Camshaft Locking Tool LH Bank, to be used as OEM VM10338-2
- 3 Tensioner Locking Pin, to be used as OEM VM1039a
- 4 Crankshaft Timing Pin, to be used as OEM VM10339
- 5 Screws for Camshaft Locking Tools

INTENDED USE

This tool set is made for setting the camshaft and crankshaft timing when e.g. replacing timing chain or cylinder head gasket and it is suitable for:

Jeep Grand Cherokee 3.0 V6 CRD (2011-2015), engine code: EXF VM23D

Jeep Grand Cherokee 3.0 Multijet (2011-2015), engine code: EXF VM44D

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

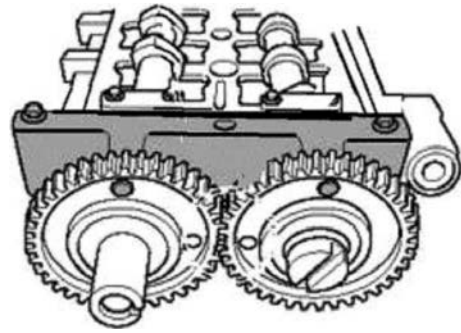
SAFETY INFORMATION

- 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 with the engine running. Loose clothing, tools and other objects can be caught by rotating parts and cause serious injury.
- Keep children and other unauthorized persons away from the work area.
- 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.
- 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)

USE

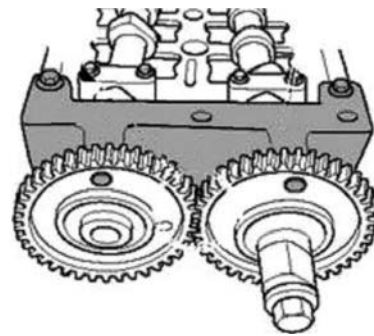
Camshaft Locking Tool (1) for right cylinder head,
to be used as OEM VM10338-1

This tool is used to lock the camshaft in timing position.
Ensure all camshaft gear marks are aligned and the tool
pins fit into the back of the gears as shown.



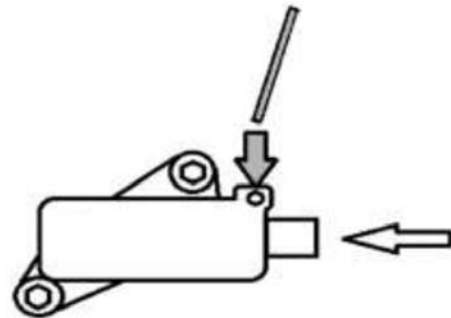
Camshaft Locking Tool (2) for left cylinder head,
to be used as OEM VM10338-2

This tool is used to lock the camshaft in timing position.
Ensure all camshaft gear marks are aligned and the tool
pins fit into the back of the gears as shown.



Tensioner Locking Pin (3),
to be used as OEM VM1039a

This tool is used to lock both chain tensioners in their fully
retracted position.
Insert the tensioner locking pin after locking the camshaft
and crankshaft.
Push both tensioner back and slide in the locking pin.



Crankshaft Timing Pin,
to be used as OEM VM10339

This tool is used to lock the crankshaft in timing position.
Install this tool into the engine block as shown.

