

Water Pump Drive Sprocket Removal & Fitting Kit Instructions



1001109

To Fit:
VW Group 1.5 TSI Engine



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The VW Group 1.5L TSI engines use a water pump that is belt driven via the inlet camshaft. When performing engine timing checks or timing belt replacement, it is necessary to remove the water pump and drive sprocket from the end of the camshaft.

Removal and fitting of the sprocket must be done in a controlled manner that does not pull or push on the internal camshaft components and the sprocket must also be correctly aligned when being fitted. febi 1001109 has been designed to allow removal, fitting and alignment of the sprocket using force screws to ensure the camshaft is not pulled or pushed within the cam cover.

- Applications include Audi (from 2017), SEAT (from 2017), Škoda (from 2017) & Volkswagen (from 2017).

- Engine Applications include: 1.5L TSI petrol engines – DACA, DACB, DADA, DFYA, DHFA, DPBA, DPCA & DPBE.
- Engine variants include: EA211, EVO 4-cylinder TSI ACT. Equivalent to OEM T10221-A.

- Recommended for use when performing timing checks and belt replacement – use with febi 199627 Engine Timing Kit.

Supplied with water pump sprocket alignment pin to ensure correct alignment – use in accordance with OEM instructions. Do not use power tools with this product.

The information given below is for reference only. febi recommends the use of Manufacturer data or Autodata as example. febi cannot be held responsible for damage to the engine or personnel whilst using this tool kit.

Make	Model	Year
AUDI	A1	From 2018
	A3	From 2017
	Q2	From 2018
	Q3	From 2018
SEAT	ARONA	2017 to 2021
	ATECA	From 2018
	IBIZA	2017 to 2021
	LEON	From 2018
	TARRACO	From 2019
ŠKODA	KAMIQ	From 2019
	KAROQ	From 2017
	KODIAQ	From 2019
	OCTAVIA III/IV	From 2017
	SCALA	From 2019
	SUPERB III	2017 to 2020
Volkswagen	ARTEON	2018 to 2020
	GOLF /VII/VIII	From 2017
	PASSAT	From 2018
	POLO	2017 to 2021
	T-CROSS	From 2019
	TIGUAN/ALLSPACE	From 2018
	TOURAN	From 2019
	T-ROC	2017 to 2022

Engine Codes
1.5 LT
DADA
DFYA
DHFA
DPCA
DACA
DPBA
DACB
DPBE

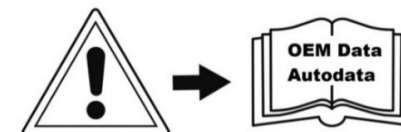
Kit List:



Item	Comp. No.	Description	OEM
A	C736	Water Pump Alignment Pin	T1050/42
B	N/A	M8 Reaction bolt	
C	C1071	Water Pump Sprocket Puller	T10221A

Instructions for use:

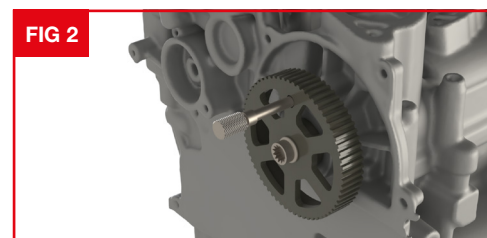
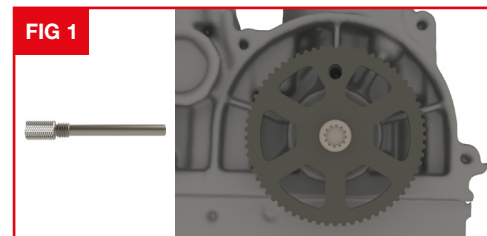
- Always refer to manufacturer specific data and instructions.
- Ensure the engine is set to TDC on cylinder number 1.



Component A, Alignment Pin:

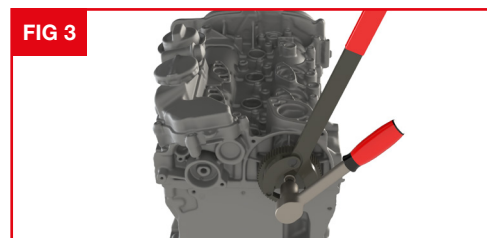
Used to check the alignment of the water pump sprocket before sprocket removal and also when refitting the sprocket.

Check the alignment of the sprocket before removing the sprocket fixing; see figures 1 and 2.

**Remove the pin A:**

Using a suitable sprocket holding tool as shown in figure 3 undo the sprocket fixing bolt.

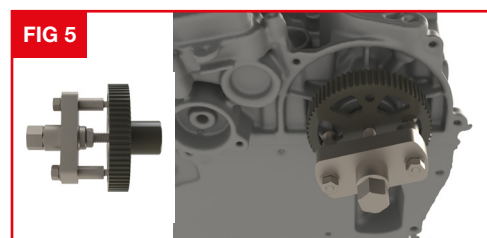
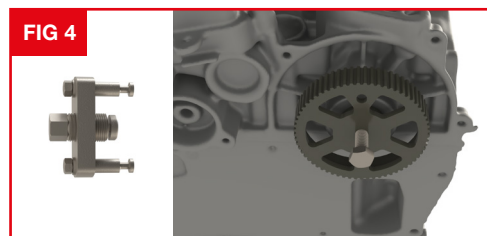
With the sprocket fixing bolt removed, recheck the sprocket alignment using pin A.

**Component B, Reaction Bolt:**

Used to allow the puller to push against the camshaft and refit the sprocket.

Component C, Sprocket Remover:

Screw component B into the camshaft as far as it will go by hand (see figure 4). Mount the sprocket puller C so the force screw pushes on the head of bolt B and the legs hook into the sprocket, as shown in figure 5:

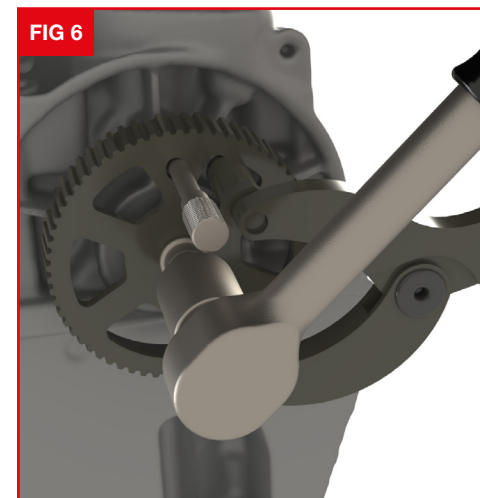


While holding the cross beam of the puller so the leg remains in contact with the sprocket, turn the force screw with a 17 mm spanner to pull off the sprocket to touch the head of B. Slacken the puller, back off the reaction bolt B and repeat the above process.

Fitting the sprocket:

Place the sprocket on the end of the camshaft by hand and align the sprocket using alignment pin A.

With the reaction bolt B and a suitable 13 mm spanner press the sprocket back on to the camshaft. Hold the sprocket from turning using a suitable holding tool; where possible keep the alignment pin in place to help ensure the sprocket does not turn on the camshaft. (see figure 6).



Once the reaction bolt B bottoms out in the camshaft remove it and complete the fitment using the OEM fixing bolt.

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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.

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