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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.

It is our policy to continually improve our products and thus we reserve the right to alter specifications and components without prior notice. It is the responsibility of the user to ensure the suitability of the tools and information prior to their use.

7603_Instructions_V2

Guarantee

If this product fails through faulty materials or workmanship, contact our service department direct on: **+44 (0) 1926 818186**. Normal wear and tear are excluded as are consumable items and abuse.



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7603

LASER[®]

Front Crankshaft Cover Alignment Tool

BMW



Designed to ensure the correct alignment of the front lower timing case cover on the BMW B37 and B38 engines, the 7603 also helps prevent damage to the new seal during fitting.

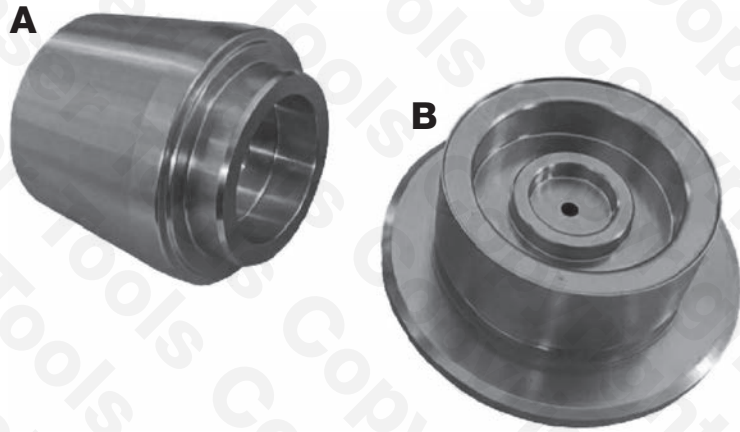
Use with Laser 7242 Timing Chain Kit (B38 engines), Laser 6997 (B37 engines), 7300 Crankshaft Holding and Turning Kit and 7253 Balance Shaft Removal & Fitting Kit.

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7603 - Front Crankshaft Cover Alignment Tool

- Applications: BMW 1 Series (F20/21), 2 Series (F22/F23), 3 Series (F30/F31), 4 Series (F32/F33/F36), X1 (F48), X2 (F39) and Mini Clubman (F54), Hatch (F55/F56/F57), Countryman (F60).
- Engine codes: B37C, B37D, B38A, B38B.
- Used to align the front engine cover, use in accordance with OEM instructions.
- Equivalent to OEM tool number 2 357 900.
- **NOTE: Surface of the tool must be kept clean and scratch free to ensure correct operation.**

Components



Ref	BMW OEM	Description
A	2 357 900	Tapered Nose Piece
B		Seal Fitting Piece

The following instructions are for guidance only. Please refer to OEM derived data such as the vehicles manufactures own data or Autodata.

The use of this Seal Fitting Tool is purely down to the user's discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused what so ever.

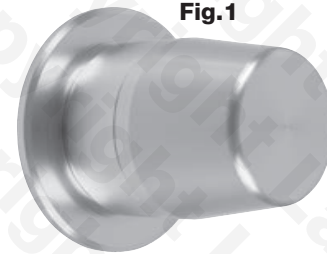


Instructions

Note: Refer to vehicle manufacturer's instructions for vehicle/engine specific data.

Component A/B

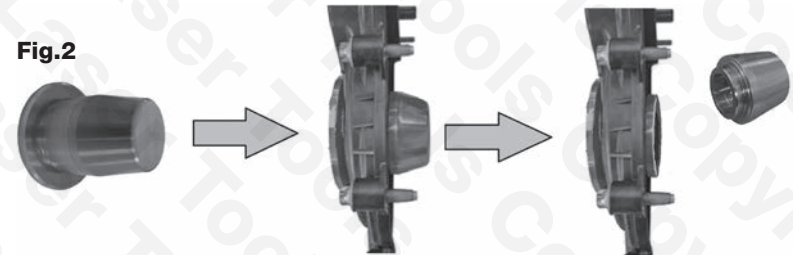
- Assemble sections (A) & (B) as shown in Fig.1. Ensure the assembly is clean and free from grit, oil and scratches.



- With the new seal already fitted into the front engine casing on the bench slide the assembled 7603 gently into the seal from the front (outside) of the casing so that the seal fits evenly around the Seal Fitting piece, component (B) Fig.2.

Special note: **DO NOT** lubricate the fitting tool 7603 - refer to OEM BMW instruction.

- Remove section (A) (see Fig.2)



- Fit the Engine casing onto the engine as shown in Fig.3 ensuring section (B) aligns correctly on the crankshaft end (X).
- Fit the casing bolts in accordance with manufactures specification and instructions.

