

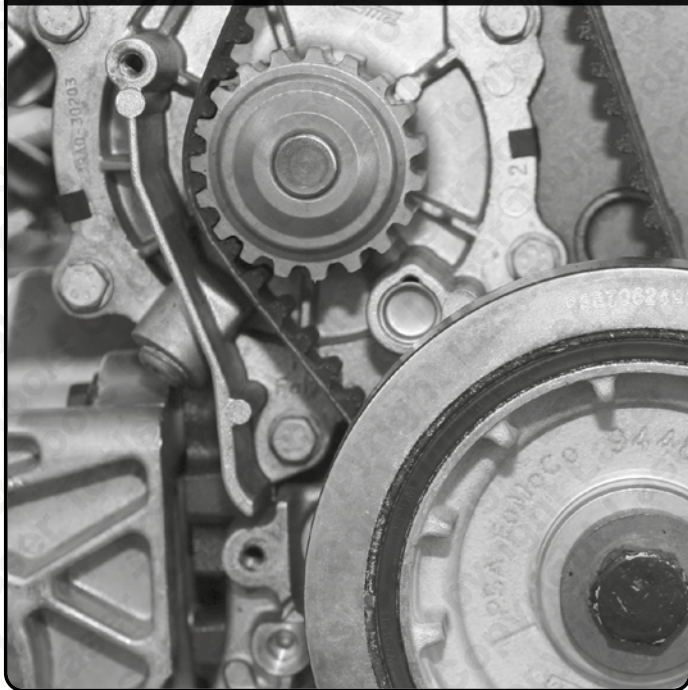
Part No. 8352

# LASER<sup>®</sup>

## Instructions

### Timing Tool Set

Citroen, Peugeot, Opel 1.2 Wet Belt Petrol



[www.lasertools.co.uk](http://www.lasertools.co.uk)

## Introduction

The 8352 has been developed for the late model EB2 engines where the camshafts alignment features can be accessed through the top by removing the plastic cam cover and the vacuum pump on the vehicles listed above. The 8352 locks the camshafts into their “timed” position to allow the camshaft drive belt to be removed and replaced or the engine timing checked.

NOTE: For engine Identification see application list attached and refer to figure 1.

**Engine applications:** 1.2 Wet Belt Petrol.

**Citroen:** Berlingo (from 2018), C1 (2015 to 2018), C3 Aircross (from 2016), C4 Cactus (from 2014), C5 Aircross (from 2019), C-Elysee (2018 to 2020), DS4 (2014 to 2019), DS 3 (from 2016), DS 7 (from 2018).

**Peugeot:** 208 (from 2014), 308 (from 2014), 508 (from 2019), 2008 (from 2013), 3008 (from 2014), 5008 (From 2014), Partner (from 2014), Rifter (from 2018).

**Vauxhall/Opel:** Combo-E (from 2018), Corsa-F (from 2019), Crossland X (from 2017), Grandland X (2017 to 2018).

Designed for engines with Split plastic cam cover giving significant time saving for timing checks and belt replacement. For checking the belt for swelling use Laser 8207.

Equivalent to OEM 0109-2B, J-0109-2C, J-0109-2D. Use in accordance with OEM instructions.

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

The use of this engine timing tool kit is purely down to the user’s discretion and The Tool Connection Ltd. cannot be held responsible for any damage caused whatsoever.



## Components



Ref.	Code	OEM Ref.	Description
<b>A</b>	C662	0109-2B	Crankshaft Locking Tool
<b>B</b>	C994	J-0109-2C	Inlet Camshaft Timing Tool
<b>C</b>	C995	J-0109-2D	Exhaust Camshaft Timing Tool

## Instructions

Make, Model, Year			Engine Codes	
<b>Citroen</b>	Berlingo IV	From 2018	<b>1,2</b> (EB2ADT) (EB2ADTS)	LEG/EB2ADTS LEG/EB2DTS
	C1 II	2015 to 2018	EB2ADT (HNK)	LES/B12XHT (EB2DTS)
	C3 Aircross	From 2016	EB2ADT (HNP)	LES/D12XHL (HNP/ EB2ADT)
	C4 Cactus	From 2014	EB2ADTD	LES/D12XHT (EB2ADTS)
	C5 Aircross	From 2019	EB2ADTD (HNK)	LES/EB2ADT
	C-Elysee	2018 to 2020	EB2ADTS	LES/EB2DT
	DS4	2014 to 2019	EB2ADTS (HNS) EB2ADTX (HNN)	LES/F12XHT (HNS/ EB2ADTS)
<b>DS</b>	3	From 2016	EB2DT (HNZ)	LEZ/EB2F
	7	From 2018	EB2DTM (HNV) EB2DTS (HNW) EB2DTS (HNY)	LEZ/EB2FA
<b>Opel/ Vauxhall</b>	Combo-E	From 2018	EB2DTSM (HNW)	
	Corsa-F	From 2019	HMM (EB2FAD)	
	Crossland X	From 2017	HMR (EB2FA)	
	Grandland X	2017 to 2018	HMT (EB2F)	
<b>Peugeot</b>	208	From 2014	HMU (EB2FD)	
	308	From 2014	HNK (EB2ADTD)	
	508	From 2019	HNN (EB2ADTX)	
	2008	From 2013	HNP (EB2ADT)	
	3008	From 2014	HNS (EB2ADTS)	
	5008	From 2014	HNV (EB2DT)	
	Partner	From 2014	HNV (EB2DTM)	
	Rifter	From 2018	HNW (EB2DTSM) HNX (EB2DT) HNX (EB2DTSD) HNY (EB2DTS) HNZ (EB2DT)	

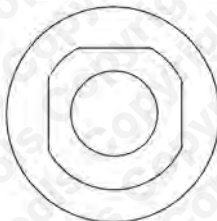
*Always refer to the website for most up to date applications:*

**[www.lasertools.co.uk/product/8352](http://www.lasertools.co.uk/product/8352)**

## Instructions

- Always refer to manufacturer specific data and instructions.
- Support the engine from underneath where removal of an engine mounting is required.
- Gain access to the inlet camshaft by removing the plastic cam cover only.
- Align the inlet camshaft so that the flats on the camshaft are aligned as shown in **Figure 2**.

Fig.2



### Component A – Flywheel Locking Pin

**WARNING:** Timing Pins are for setting and holding components in their timed position and should never be used to hold a component while loosening or tightening pulley mounting bolts.

Ensure that the camshafts are aligned then fit the flywheel locking pin (A). Component A is inserted into the back of the flywheel from underneath the engine between the exhaust and gear/bellhousing as shown in Figure 3.

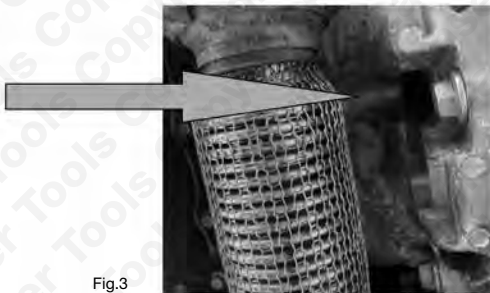


Fig.3

## Instructions

### Component B – Inlet Camshaft Timing Tool

Fit component B as shown in **Figure 4**.



Fig.4

## Instructions

### Component C – Exhaust Camshaft Timing Tool

Remove the vacuum pump situated on the gearbox end of the exhaust camshaft and fit component C as shown in **Figure 5**.



Fig.5

## Safety Warnings - please read

- Disconnect the battery earth leads (check radio code is available)
- Remove spark or glow plugs to make the engine turn easier
- Do not use cleaning fluids on belts, sprockets or rollers
- Always make a note of the route of the auxiliary drive belt before removal
- Turn the engine in the normal direction (clockwise unless stated otherwise)
- Do not turn the camshaft, crankshaft or diesel injection pump once the timing chain has been removed (unless specifically stated)
- Do not use the timing chain to lock the engine when slackening or tightening crankshaft pulley bolts
- Do not turn the crankshaft or camshaft when the timing belt/chain has been removed
- Mark the direction of the chain before removing
- It is always recommended to turn the engine slowly, by hand and to re-check the camshaft and crankshaft timing positions
- Crankshafts and camshafts may only be turned with the chain drive mechanism fully installed
- Do not turn crankshaft via camshaft or other gears
- Check the diesel injection pump timing after replacing the chain
- Observe all tightening torques
- Always refer to the vehicle manufacturers' service manual or a suitable proprietary instruction book
- Incorrect or out of phase engine timing can result in damage to the valves

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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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