

Applications

Make	Model	Year	Type
Mazda	3	2003-2014	MPS
	5	2005-2015	DISI i-stop
	6	2002-2013	DISI
	CX-7	2007-2013	4WD DISI
	MPV	2002-2005	BBR Stage One
	MX-5	2005-2016	BBR Stage Two
	Tribute	2004-2006	Jota GT

Engine Code	
1.8	L8, MZR 1.8(L8)
2.0	LF, MZR 2.0(LF), LF (MZR DISI)
2.3	L3, L3 Turbo

Our products are designed to be used correctly and with care for the purpose for which they are intended. No liability is accepted by Sonic for incorrect use of any of our products, and Sonic cannot be held responsible for any damage to personnel, property or equipment when using the tools. Incorrect use will also invalidate the warranty.

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.



Instructions

Engine Timing Kit  
Mazda, Ford Petrol - 1.8, 2.0, 2.3



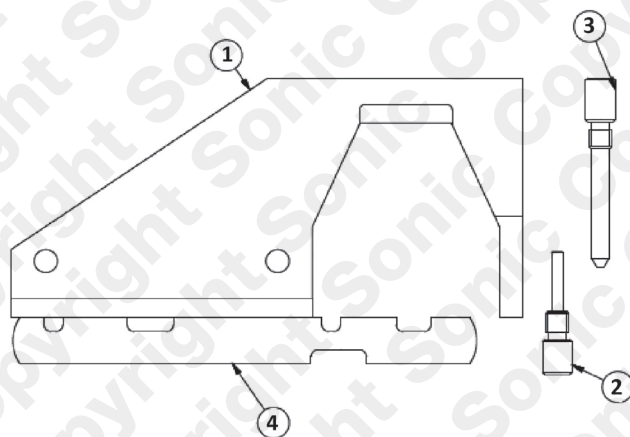
## 829046 - Engine Timing Kit

### Description:

The 829046 kit has been developed to allow the user to lock the cam and crankshaft in position to allow the removal and replacement of the timing chain fitted to the twin Cam engines fitted to the Ford and Mazda ranges as listed below.

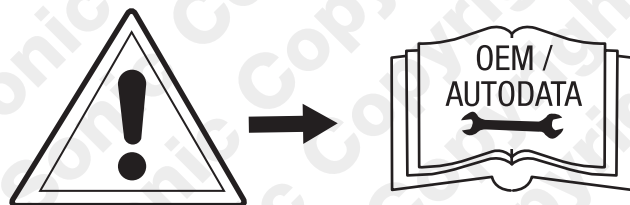
## Components

Ref	Comp	OEM	Description
1	4880267	49 UN30 310610, 303-1061	Camshaft Alignment Plate
2	4880051	999 7152/49JE01 061, 303 507, 21-210	Crankshaft Locking Pin Short
3	4880052	49N010 101/MOT 1430 303 620, 999 7201, 21-163	Crankshaft Locking Pin Long
4	488	999 7151, 303 376, 49JE01 054, 303 367/21 162, 49UN30 3376	Camshaft Locking Strap

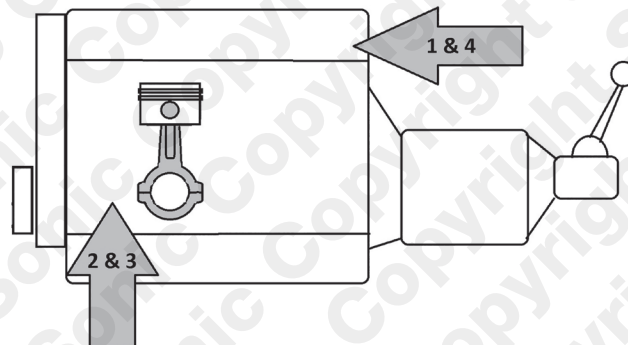


## Instructions

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 these engine timing tools is purely down to the user's discretion and Sonic cannot be held responsible for any damage caused what so ever.



## Instructions

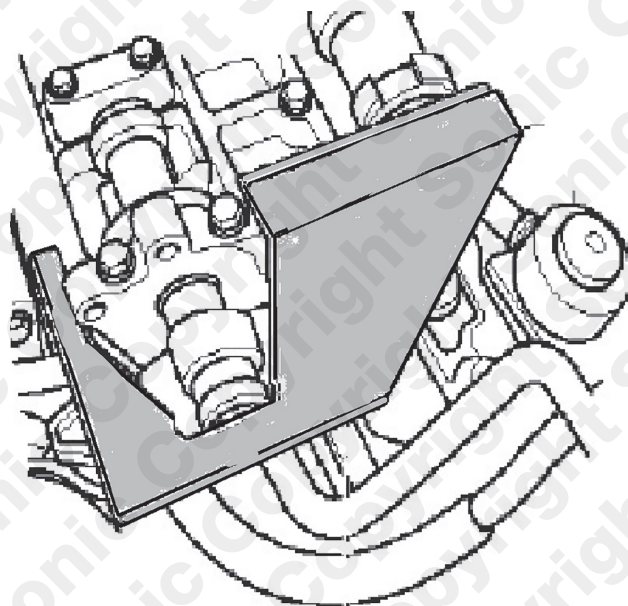


### Component Descriptions:

Note: when tightening or loosening the cam pulleys always hold the camshafts with a suitable wrench on the hexagons on the camshafts.

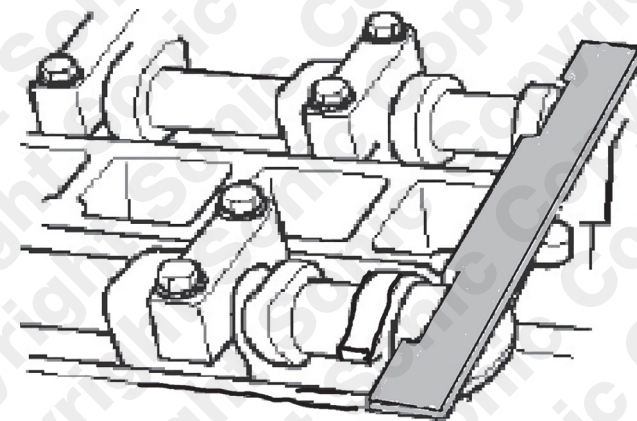
#### Component 1 - Camshaft Locking Plate

Component 1 is used to lock both the camshafts in their timed position. Remove the cam cover and fit Component 1 as shown below (engine at TDC with Component 2 OR 3 fitted)



### Component 4 - Camshaft Locking Strap

Component 4 is used to lock both the camshafts in their timed position. Remove the cam cover and fit Component 4 as shown below (engine at TDC with appropriate crankshaft locking pin in place)



**Component 2 & 3 - Used to lock crankshaft in its timed position (TDC number 1 cylinder).** Locate and remove the blanking plug from the engine block. Rotate the crankshaft in a clockwise direction and stop just before TDC number 1 cylinder. Fit the PIN 2 OR 3 in place of the blanking plug. Continue turning the crankshaft in a clockwise direction until it stops against the pin.

N.B. never use component 2 or 3 to hold the crankshaft when undoing or tightening pulley bolts. Always appropriate pulley holding tools.

