

**Incorrect or out of phase engine timing can result in damage to the valves.  
The Tool Connection cannot be held responsible for any damage caused by  
using these tools in anyway.**

### **Safety Precautions – 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 manufacturer's 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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#### **Guarantee**

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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.

# **LASER®**

Part No. 5716

## **Engine Timing Tools Fiat 0.9 Twinair**



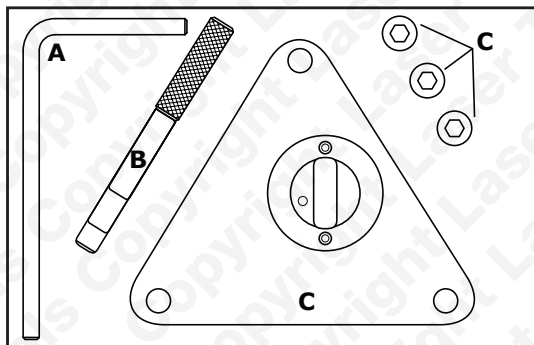
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## Plan Layout



Ref	OEM Ref	Description
<b>A</b> C579	2 000 035 300	Flywheel Locking Tool
<b>B</b> C580	2 000 035 200	Pulley Locking Pin
<b>C</b> C581	2 000 035 100	Camshaft Locking Plate with screws

## Applications

The application list for this product has been compiled cross referencing the OEM Tool Code with the Component Code.

Chain driven engines.

Made in Sheffield.

ALWAYS USE A REPUTABLE WORKSHOP MANUAL

Model	Type	Engine Code	Year
Alfa Romeo	Mito	312A2.000	2012 <
Fiat	500/500c	312A2.000	2010 <
	Panda	312A2.000	2012 <
	Punto	312A2.000	2012 <
Lancia	Ypsilon	312A2.000	2011<

## Fiat 0.9 Twinair

This tool kit has been designed to lock the cam and crankshaft in position to allow the removal and replacement of the timing chain fitted to the new low emission and high economy twin cylinder Fiat engine.

It should be noted that Fiat state that after rebuild these engines should be placed on suitable electronic diagnostic software for the onboard electronic control systems to be reset.

**N.B The information given below is for reference only. The Tool Connection recommends the use of Manufacturer data or Autodata.**

### Preparation:

- Removal of the timing chain will require the removal of the sump.
- Ensure the engine is at TDC No1 cylinder
- Ensure the chain tensioner is fully retracted and held in the retracted position using a suitable pin or drill bit.

### Component Descriptions

#### Component A = Flywheel Locking Tool

Component A is used to lock the crankshaft in its timing position by locking the Flywheel. Component A is fitted into the flywheel via an access hole in the gearbox bell housing as shown (Fig. 1)

#### Component B = Pulley Locking Pin

Component B is used to lock and hold the front crankshaft pulley position for removal (Fig. 2)

**N.B. The Crankshaft pulley fixing bolt has a left hand thread**

#### Components C = Camshaft Locking Plate & Fixings

Component C is used to lock the camshaft in its timed position. It bolts to the engine cylinder head using the fixing provided. Component C locates on to the camshaft at the opposite end to the camshaft drive pulley and chain as shown (Fig. 3)

Fig. 1

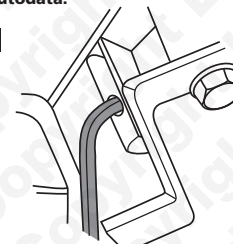


Fig. 2

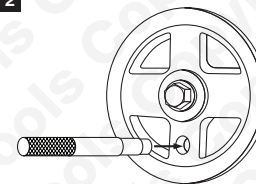


Fig. 3

