

NUOVA BRAVO 1.4 16v TOOTHED TIMING BELT - R + R FOR TIMING ADJUSTMENT OR REPLACEMENT 1032B10



Removing ([Refitting](#))

- Position the vehicle on a lift.

Op. 7055B54 UNDER ENGINE PROTECTION/GUARD - R.R.

Op. 1016A10 SOUND-PROOFING COVER - R.R

Op. 1056B65 SOUND INSULATING COVER FOR INJECTOR ASSEMBLY - R.R.

Op. 1072B53 AIR CHAMBER REINFORCEMENT BRACKET - R.R.

Op. 1092G10 SINGLE ENGINE BELT - R.R

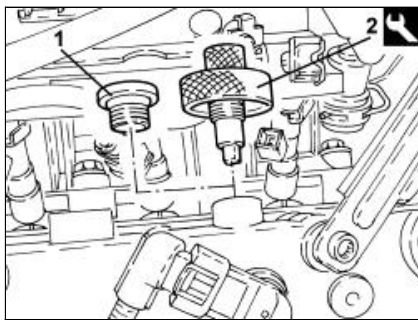
Op. 1092A10 CRANKSHAFT PULLEY - R + R

Op. 1008B10 POWER UNIT FRONT SUPPORT FLEXIBLE MOUNTING (TIMING SIDE) - REPLACE

Op. 1008A46 POWER UNIT RIGID SUPPORT - TIMING SIDE - R.R.

Op. 1032D26 TIMING SYSTEM FRONT PROTECTIVE COVER (UPPER PART) - R.R.

Op. 1032D27 TIMING SYSTEM FRONT PROTECTIVE COVER (LOWER PART) - R.R.

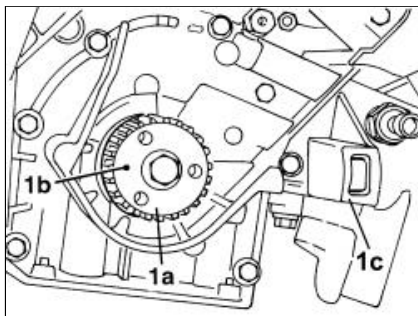


1. Remove the camshaft protective plug, inlet side.

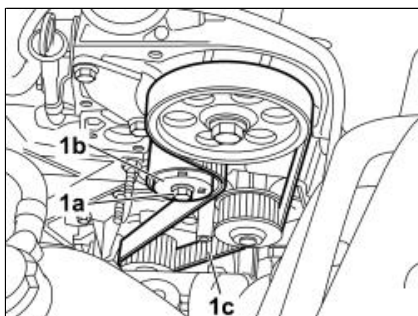
2. Rotate the crankshaft in its normal direction of rotation and fit the camshaft timing tool.

Tool	Description	Function	Validity
1860985000	Locating pins	Camshaft timing	1.4 16v

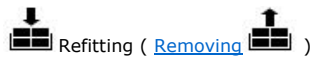
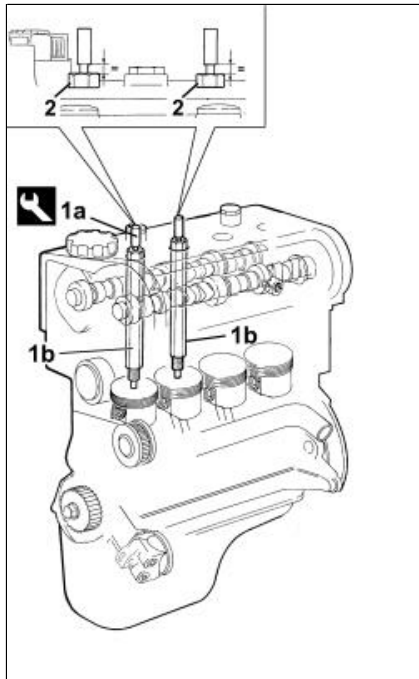
For the removal of the timing belt only, simply fit the inlet side camshaft timing pin.



1. Because the timing is adjusted with the four pistons in line, i.e. half-way along their effective strokes, it is essential to position the crankshaft in phase with the camshafts. They can be approximately positioned by turning crankshaft gear (1a) until locating dowel (1b) is positioned opposite rpm sensor seat (1c) with the first cylinder piston in descending phase, i.e. intake.



1. Loosen nut (1a) for moving tensioner (1b) and remove toothed timing drive belt (1c).



Refitting ([Removing](#))

- Undo the bolts and remove the ignition coils for the 3rd and 4th cylinder referring to

Op. 5510C14 IGNITION COIL/S - R.R.

- Remove the spark plugs for the 1st and 2nd cylinders referring to

Op. 5510D10 SPARK PLUGS - R+R

1. Position tools (1a) in the seats for the spark plug for 1st and 2nd cylinder, tightening pins (1b) to a torque of 0.5 daNm.

Tool	Description	Function	Validity
1860992000	Bearings	Crankshaft timing	1.4 16v

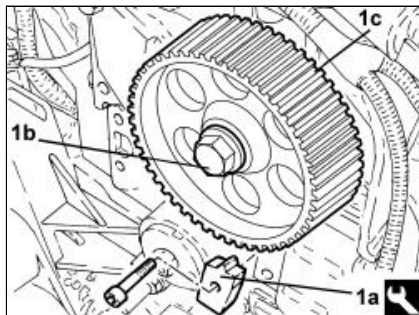
2. Rotate the crankshaft in its normal direction of rotation until the tool moving pins fitted previously are aligned with one another.



Rotate the crankshaft, proceeding gradually to prevent the tool pins being expelled by the compression of the cylinders.

- The camshafts have been pre-timed by fitting the locating pin on the inlet side of the camshaft.

1. Fit tool (1a) and loosen retaining bolt (1b) for driven pulley (1c).



Tool	Description	Function	Validity
2000015800	Counter-torque	Locking driven pulley	1.4 16v

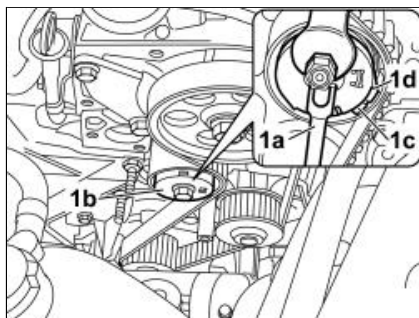
- Remove the previously fitted counter-torque tool .

- Proceed with fitting the timing drive belt, firstly fitting it on the crankshaft gear, the water pump pulley, the driven pulley and lastly on the mobile tensioner.



Ensure that this operation is performed with the driven pulley slack.

1. Tension the timing belt by turning it anticlockwise with tool (1a) and moving tensioner (1b) and then secure it when reference fork (1c) reaches end of travel position (1d).

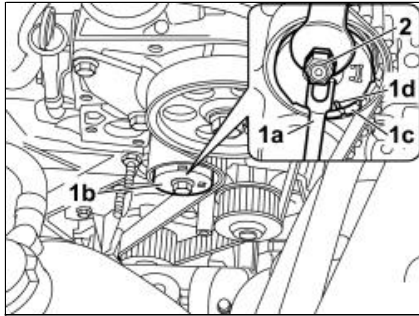
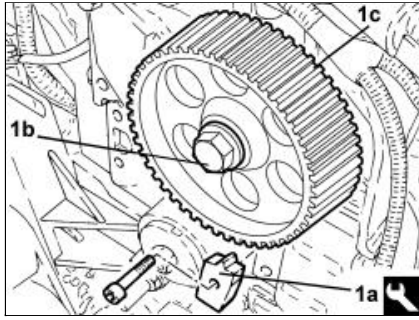


Tool	Description	Function	Validity
1860987000	Spanner	Tensioning toothed timing drive belt	1.4 16v

1. Fit tool (1a) and tighten bolt (1b) for driven pulley (1c) to torque.

Component	Fastening	dia	Value (daNm)	Validity
Driven timing pulley	Bolt	M12	10.8 ÷ 13.2	1.4 16v

Remove the previously fitted counter-torque tool .



- Remove the previously positioned tools for the timing and locking of the camshafts and rotate the crankshaft through two revolutions.

1. Loosen the nut securing the moving tensioner and use tool (1a) on moving tensioner (1b) until reference fork (1c) is aligned with rear fork (1d).

2. Tighten the nut securing the moving tensioner to the recommended torque.

Component	Fastening	dia	Value (daNm)	Validity
Timing system moving tensioner	Nut	M8	2.2 ÷ 2.7	1.4 16v

- Turn the crankshaft through two revolutions in its normal rotation direction, then reposition the tools used to adjust engine timing and check the engine is in phase.

- Remove the tools used for timing the engine.

- Place the side plugs in their seats in the cylinder head extension and tighten them to the recommended torque.

Component	Fastening	dia	Value (daNm)	Validity
Engine cylinder head extension plugs	Plugs	M16	1.3 ÷ 1.6	1.4 16v

- Place the spark plugs and the ignition coils for the 1st and 2nd cylinders in their seats referring to

Op. 5510D10 SPARK PLUGS - R+R

Op. 5510C14 IGNITION COIL/S - R.R.

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