



OCTOBER 1997

SUBSCRIPTION

RPO No: 7511 →

REF.

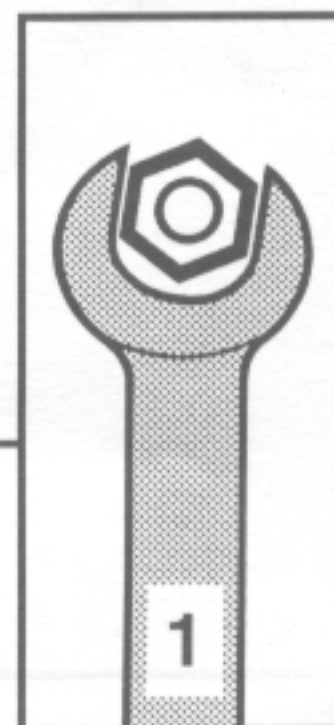
1 No XM 220-00/5

PETROL ENGINE

ES9J4 (2946 cm³. V6)

● LUBRICATION

MAN 108931



"The technical information contained in this document is intended for the exclusive use of the trained personnel of the motor vehicle repair trade. In some instances, the information could concern the security and safety of the vehicle. The information is to be used by the professional vehicle repairers for whom it is intended and they alone would assume full responsibility to the exclusion of that of the manufacturer".
"The technical information appearing in this brochure is subject to updating as the characteristics of each model in the range evolve. Motor vehicle repairers are invited to contact the CITROËN network periodically for further information and to obtain any possible updates".



AUTOMOBILES CITROËN
DIRECTION EXPORT EUROPE
DOCUMENTATION APRÈS VENTE

CONTENTS

LUBRICATION

CHECKS : OIL PRESSURE	1
1 – Recommended tools	1
2 – Pressure checking	–
REMOVING – REFITTING : OIL PUMP	2
1 – Recommended tools	2
2 – Removing	–
3 – Refitting	4

CHECKS : OIL PRESSURE

1 – RECOMMENDED TOOLS

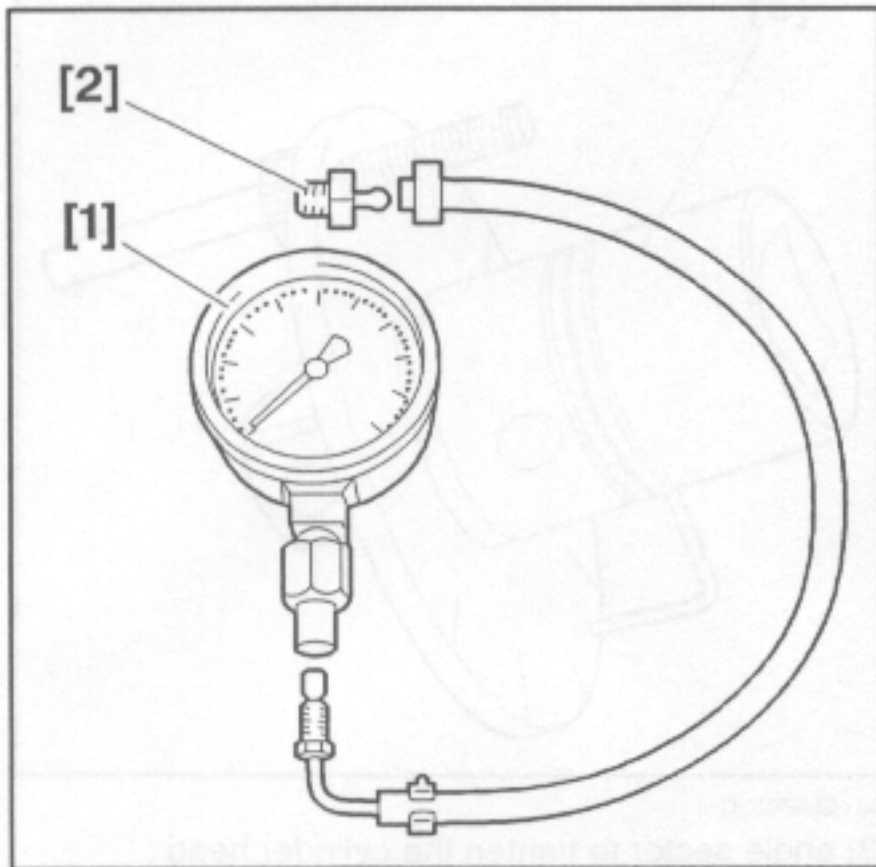


Fig : E5-P09VC

- [1] 2279-T bis pressure gauge (4103-T tool kit).
- [2] union 7001-T engine oil pressure take-off of the 4103-T box.

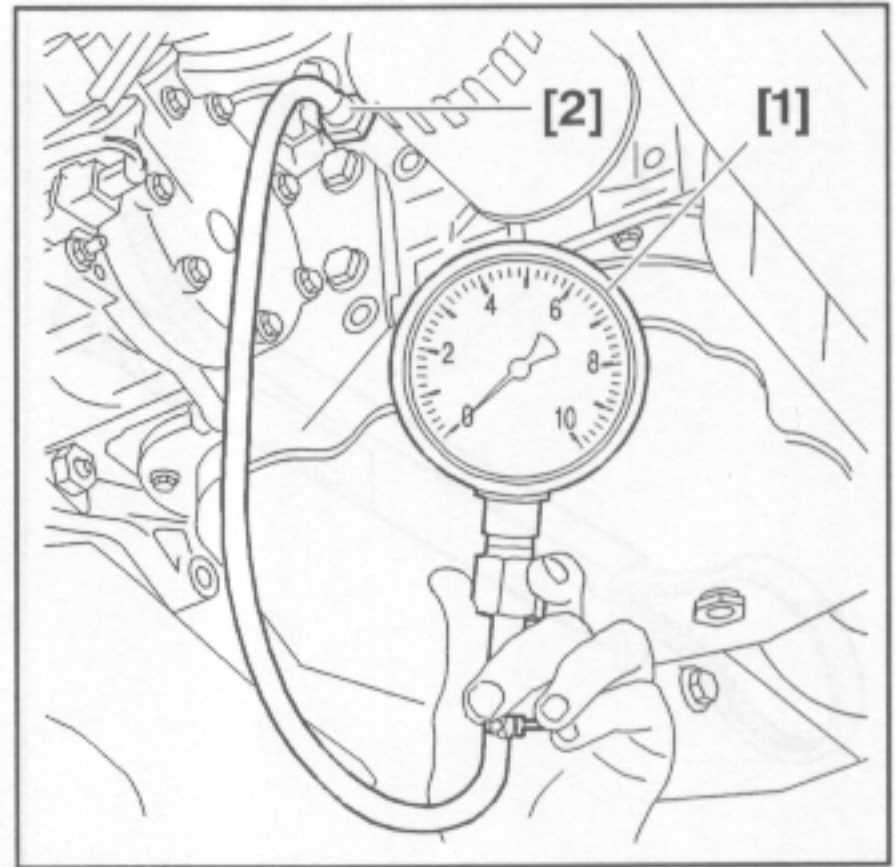


Fig : B1FP01WC

- Fit the union [2].
- Connect the pressure gauge [1] and its hose to the union [2].
- Read the oil pressures.

2 – PRESSURE CHECKING

Oil pressure is checked with the engine hot after checking the oil level.

Engine oil temperature 90 °C.

Engine speed (rpm)	Pressure (bars)
900	2
3000	5

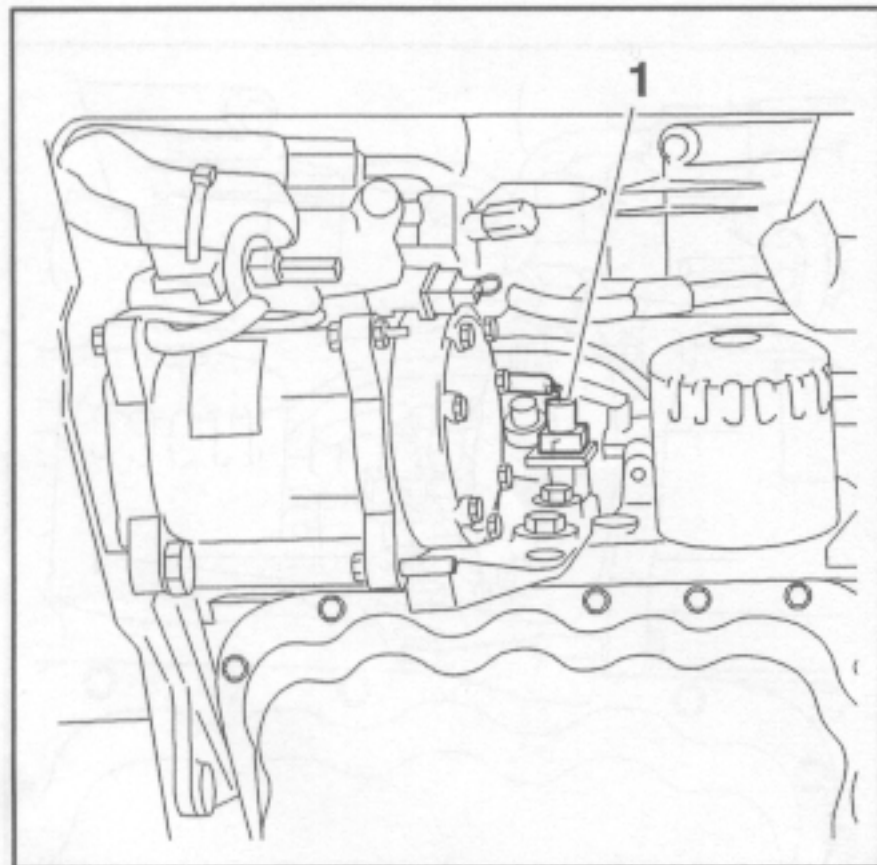


Fig : B1FP01VC

- Disconnect the pressure switch (1).
- Remove the oil pressure switch.

- Remove the pressure gauge [1] and union [2].
- Refit the oil pressure switch together with a new joint.
- Tighten to 3,5 m.daN.
- Reconnect the pressure switch.
- Top up the engine oil level.

REMOVING – REFITTING : OIL PUMP

1 – RECOMMENDED TOOLS

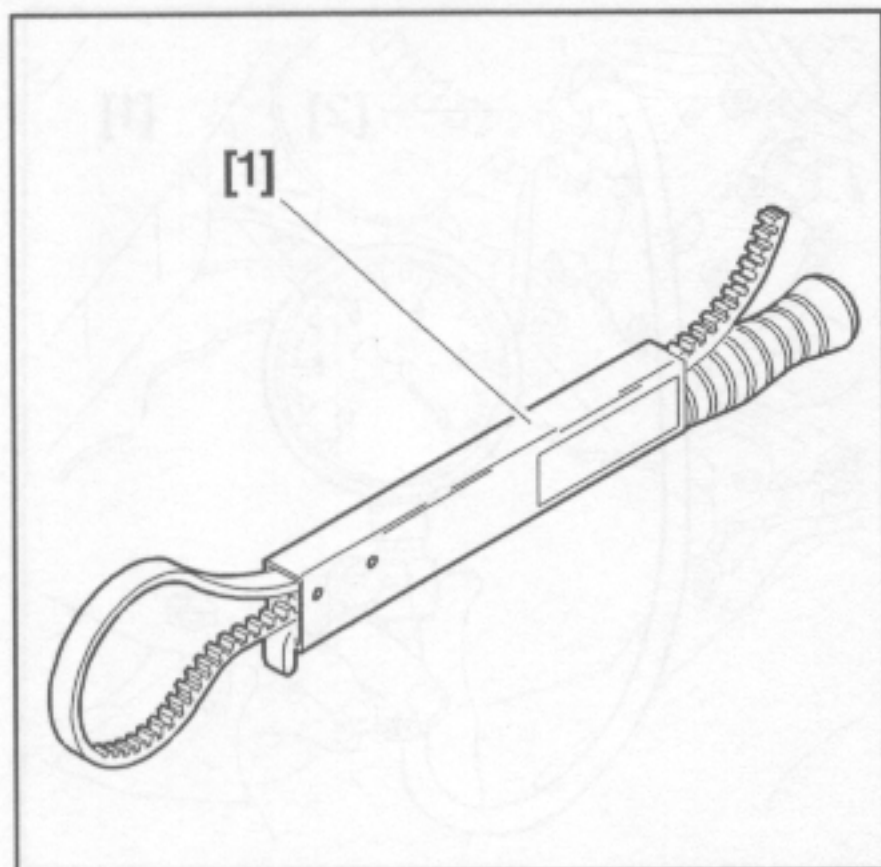


Fig : E5AP124C

[1] strap wrench : 8209-T.

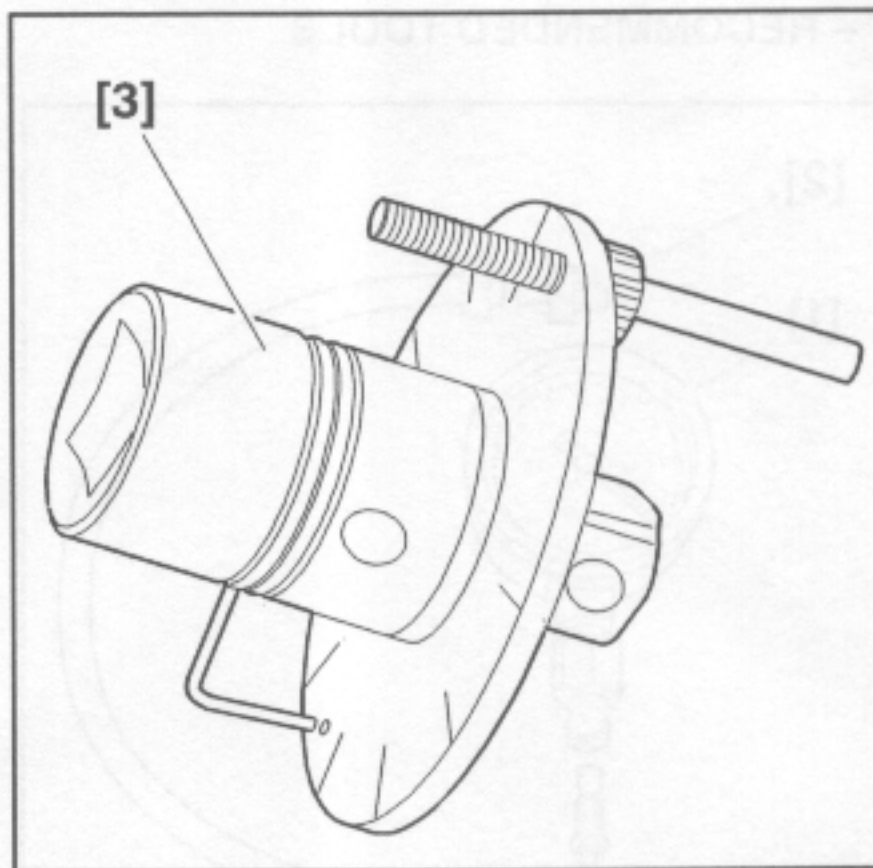


Fig : E5AP03QC

[3] angle sector to tighten the cylinder head : 4069-T.

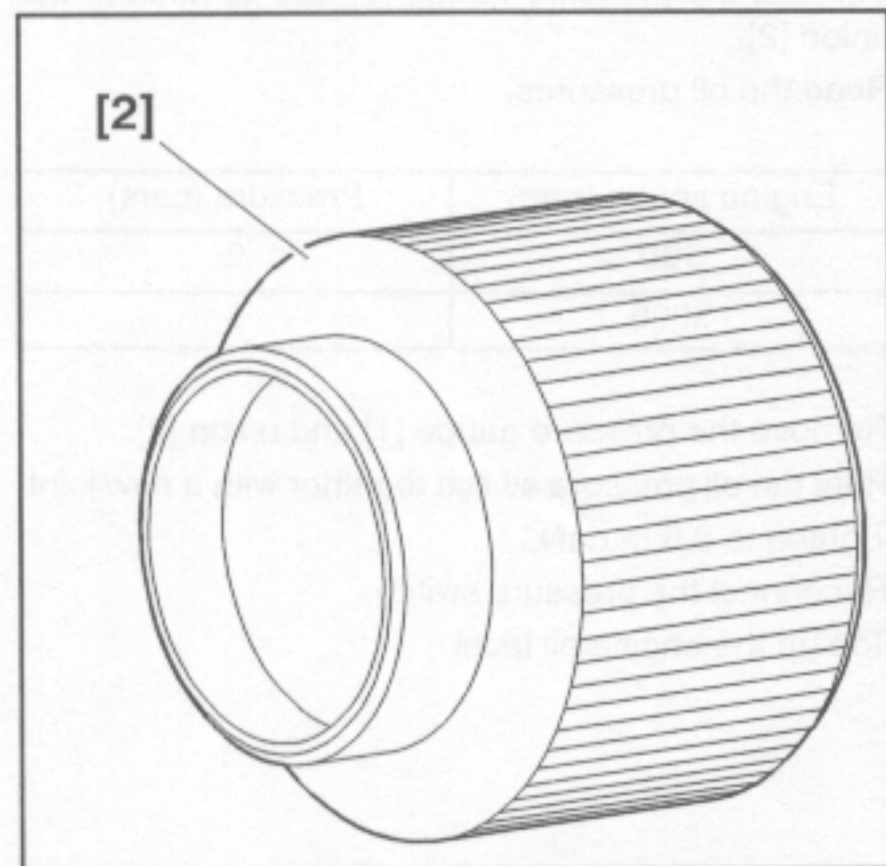


Fig : E5AP03PC

[2] crankshaft oil seal fitting mandrel : (-).0187 G (oil pump side).

2 – REMOVING

Remove :

- the auxiliary equipment drive belt (see the relevant operation)
- the timing belt (see the relevant operation)
- the crankshaft setting peg

Refit the right-hand engine mounting.

Lift the vehicle.

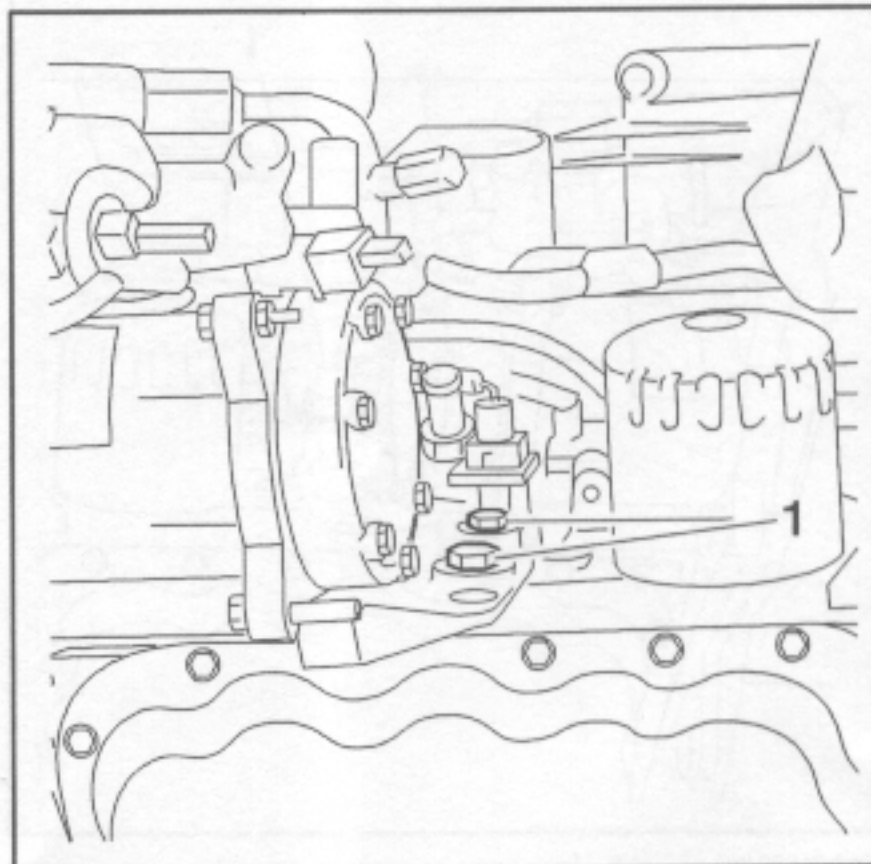


Fig : C5HP06NC

Remove the screws (1).

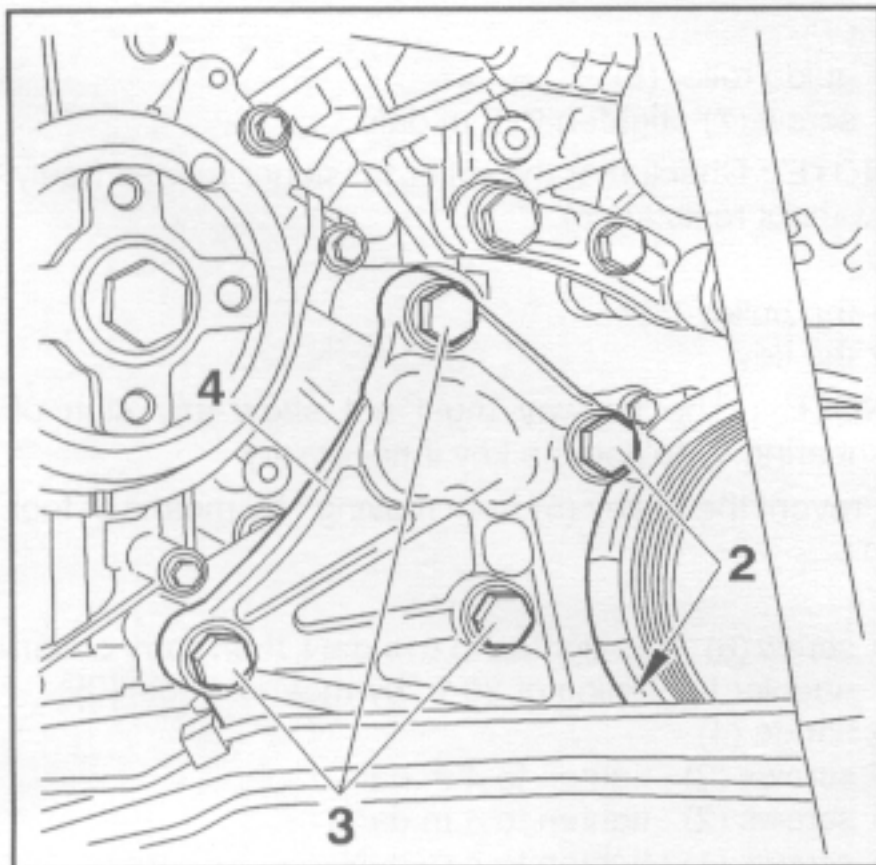


Fig : C5HP08PC

Loosen screws (2).

Remove :

- screws (3)
- flange (4)

NOTE : Suspend the air conditioning compressor from the L.H. side of the vehicle.



Fig : B1FP02AC

Remove :

- screw (7)
- guide roller (8)

Progressively loosen the oil pump screws (9) in the order shown.

Remove :

- the oil pump fixing screws
- the oil pump (9)

Plug the orifices.

NOTE : Recover the excess oil using a tray.

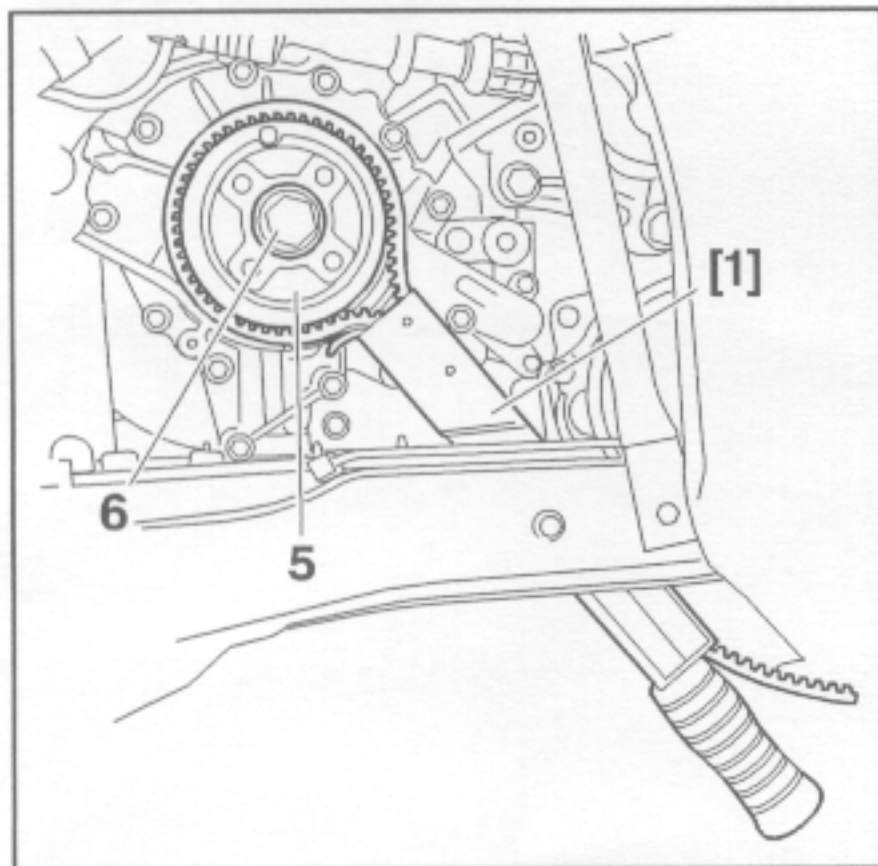


Fig : B1CP02WC

Prevent the pulley (5) from moving ; by means of tool [1].

Remove the bolt (6).

IMPERATIVE : During this operation, the crankshaft should not rotate.

Remove the pulley (5).

3 – REFITTING

NOTE : The oil pump is equipped with a composite seal which can be reused several times. If the seal is damaged, it can be partially repaired with sealing product AUTOJOINT OR (E10).

Remove the lipped seal.

NOTE : Fill the oil pump mechanism with clean engine oil.

WARNING : Check that the alignment dowels are present on the cylinder block.

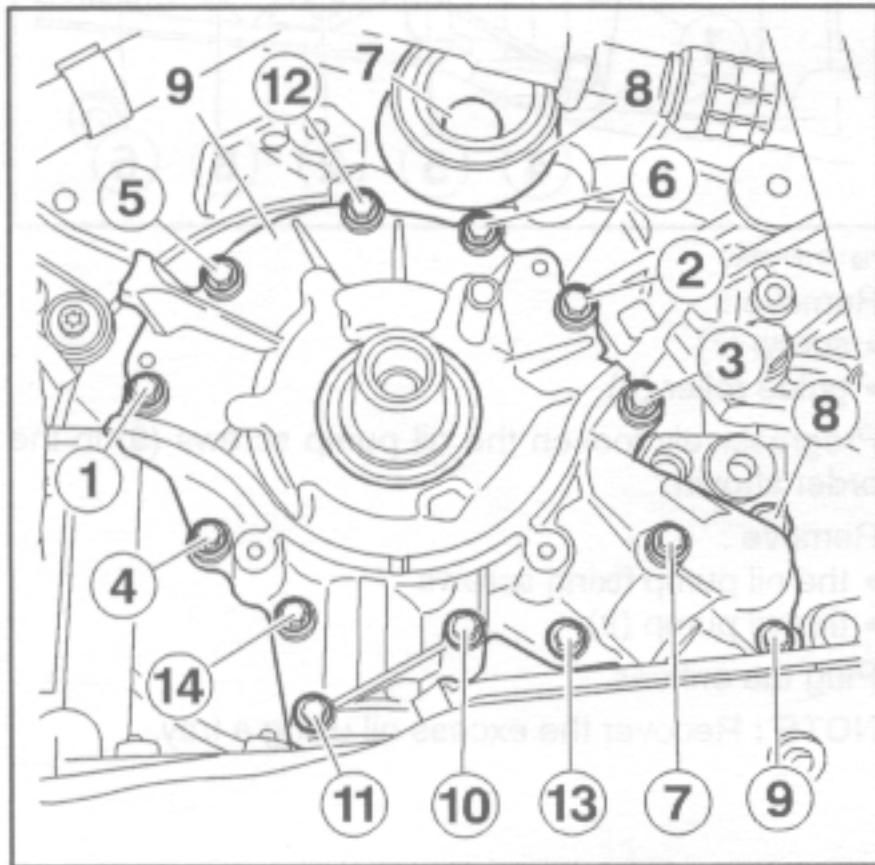


Fig : B1FP02BC

Fit :

- the oil pump (9)
- the oil pump fixing screws

Tightening method :

- pretightening :
0,5 m.daN (follow the recommended sequence)
- tightening :
0,8 m.daN (follow the recommended sequence)

Refit a new oil seal : by means of tool [2].

IMPERATIVE : Apply grease to the gap between the seal lips (G6 grease).

Fit :

- guide roller (8)
- screw (7) : tighten to 8 m.daN

NOTE : Check that the roller tensioner rotates freely (without resistance).

Fit :

- the pulley (5)
- the key

NOTE : The keyway must not show any sign of shearing. Replace the key if necessary.

Prevent the pulley (5) from moving : by means of tool [1].

Fit :

- screw (6) : pre-tighten to 8 m.daN, then carry out an angular tightening of 80° ; by means of tool [3]
- flange (4)
- screws (3) : tighten to 4 m.daN
- screws (2) : tighten to 4 m.daN
- screws (1) : tighten to 4 m.daN
- the crankshaft setting peg

Fit :

- the timing belt (see the relevant operation)
- the auxiliary equipment drive belt (see the relevant operation)

IMPERATIVE : Top up the engine oil level.

