



Type

Section

RENAULT All Types

XXX

X

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10

INJECTION OF SILICONE INTO MAIN BEARING CAPS.

• Engines : A - F - J (E) and F - J (D)

• Gearbox : XXX

Basic manual : **Manuals on engines**

This note cancels and replaces T.N. 1151 of September 1985.

This note covers the advances in sealing main bearing caps on J (E) and J (D) engines.

- Discontinuation of the oil retention groove on the cylinder block.
- Modification of the bearing caps, by making grooves on the contact surface on the cylinder block side, for sealing.

"The repair methods given by the manufacturer in this document are based on the technical specifications current when it was prepared.

The methods may be modified as a result of changes introduced by the manufacturer in the production of the various component units and accessories from which his vehicles are constructed"

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INJECTION METHOD

Old type (A-F-J (E) and J (D) engines)

Old engines have grooves (B) in the cylinder block.

To seal bearings 1 and 5, there are two solutions:

Injection of silicone, or fitting butyl seals.

1) Injection of silicone

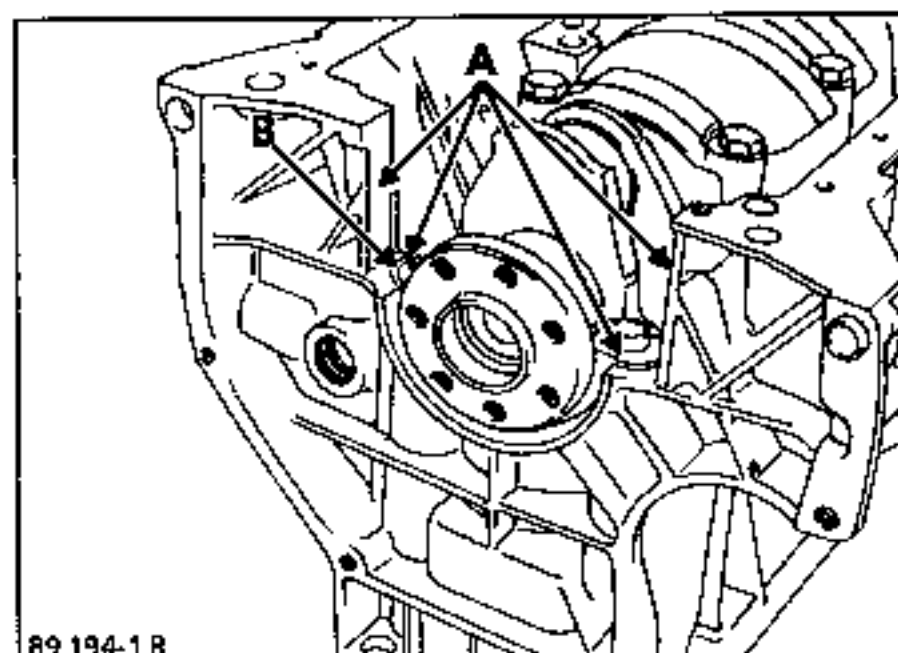
The kit required for this operation contains:

- a 50 ml syringe,
- a 5 ml tube of hardener,
- a mixing stick,
- a set of instructions.

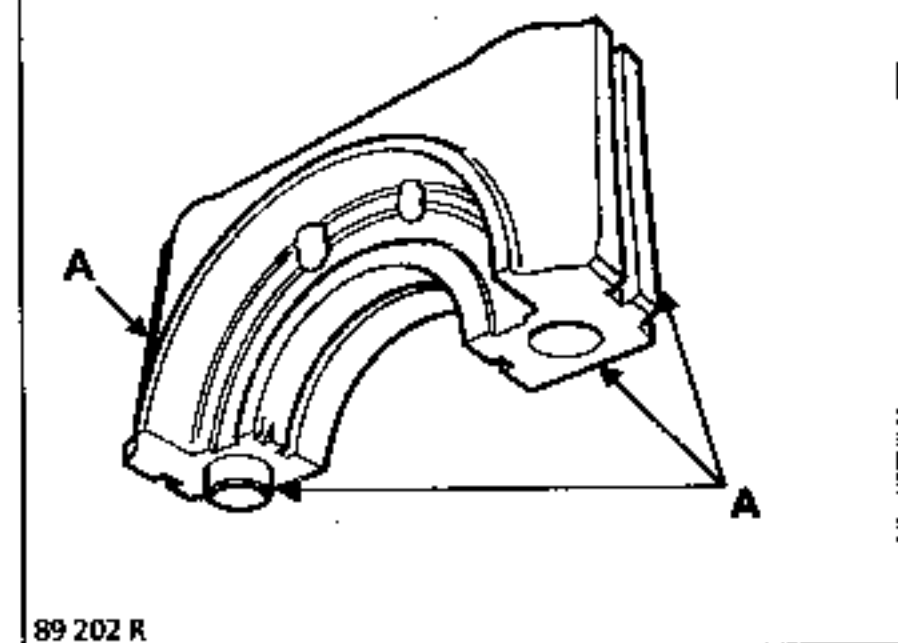
IMPORTANT: The product must be injected within approximately 5 minutes to avoid the mixture polymerising in the syringe.

- Thoroughly clean the surfaces at (A) on the cylinder block and the main bearing caps in question. Use a cloth impregnated with cleaning thinners to remove grease.

- Leave to dry.

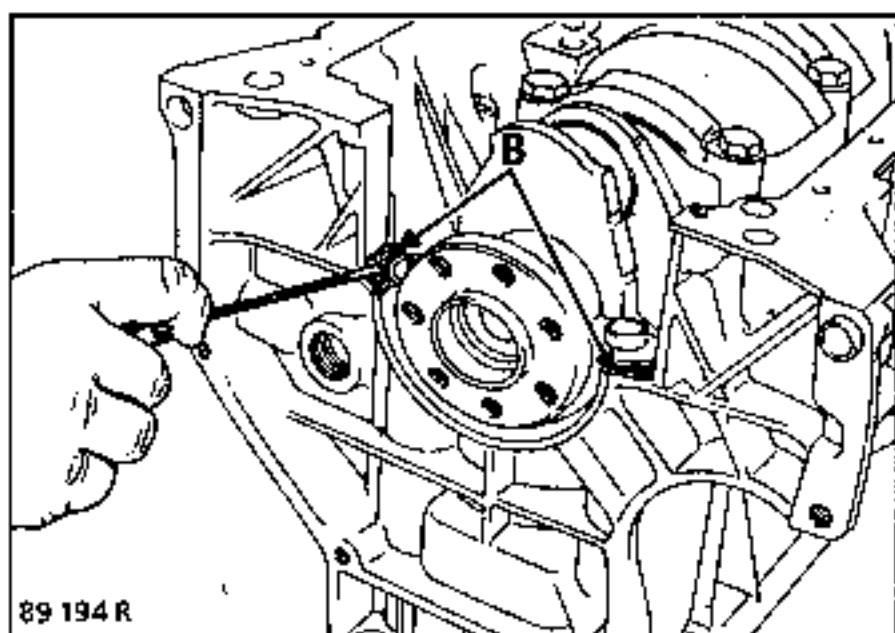


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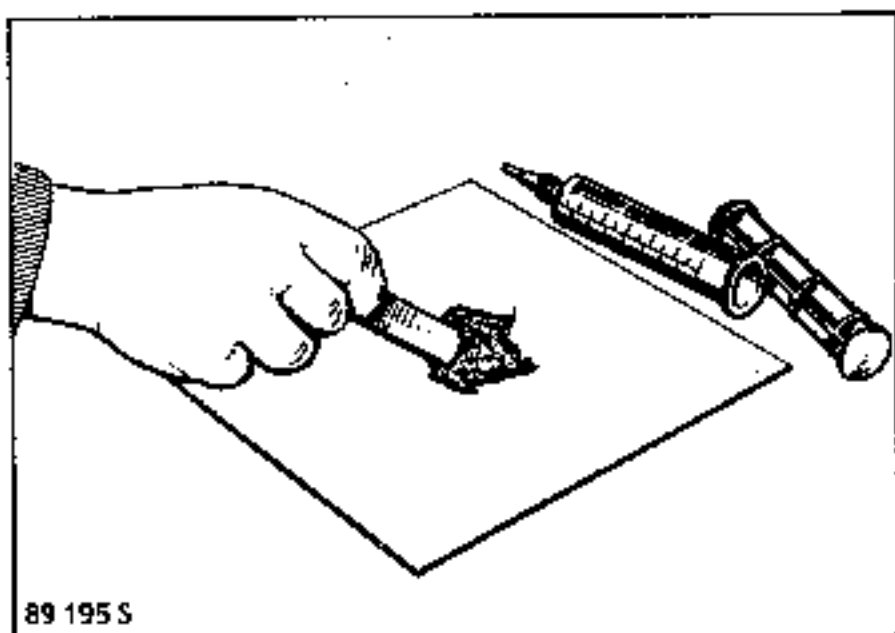


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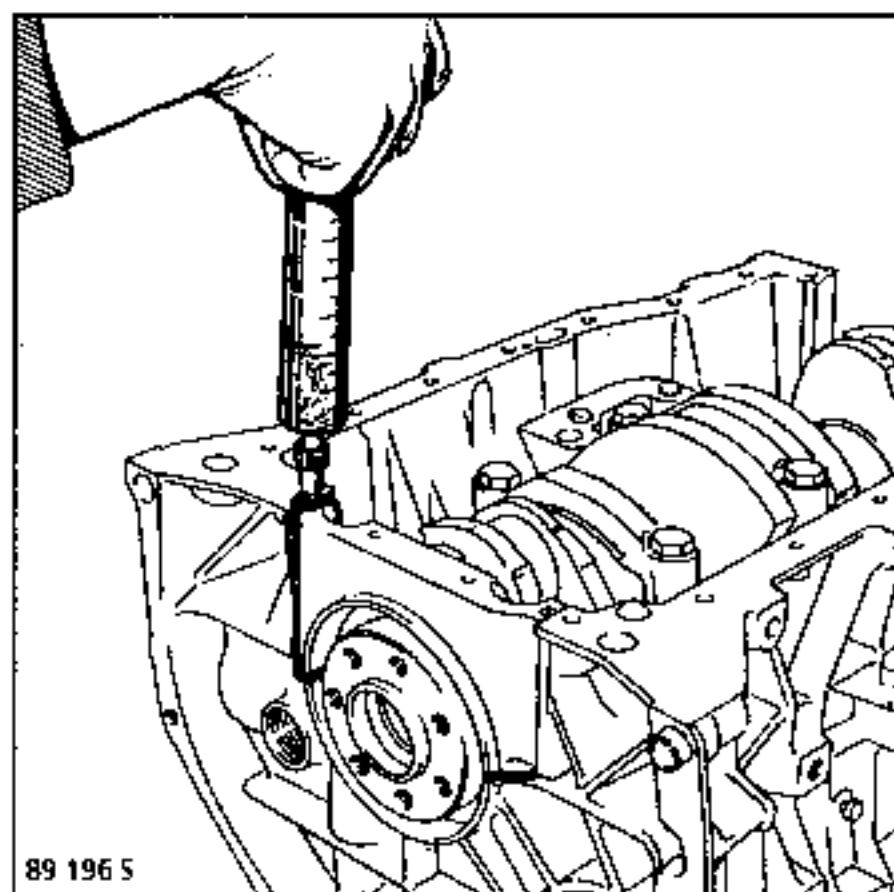
- Lightly coat the lower faces of the cylinder block at (B) with **CAF 4/60 THIXO** but do not block the oil retention grooves



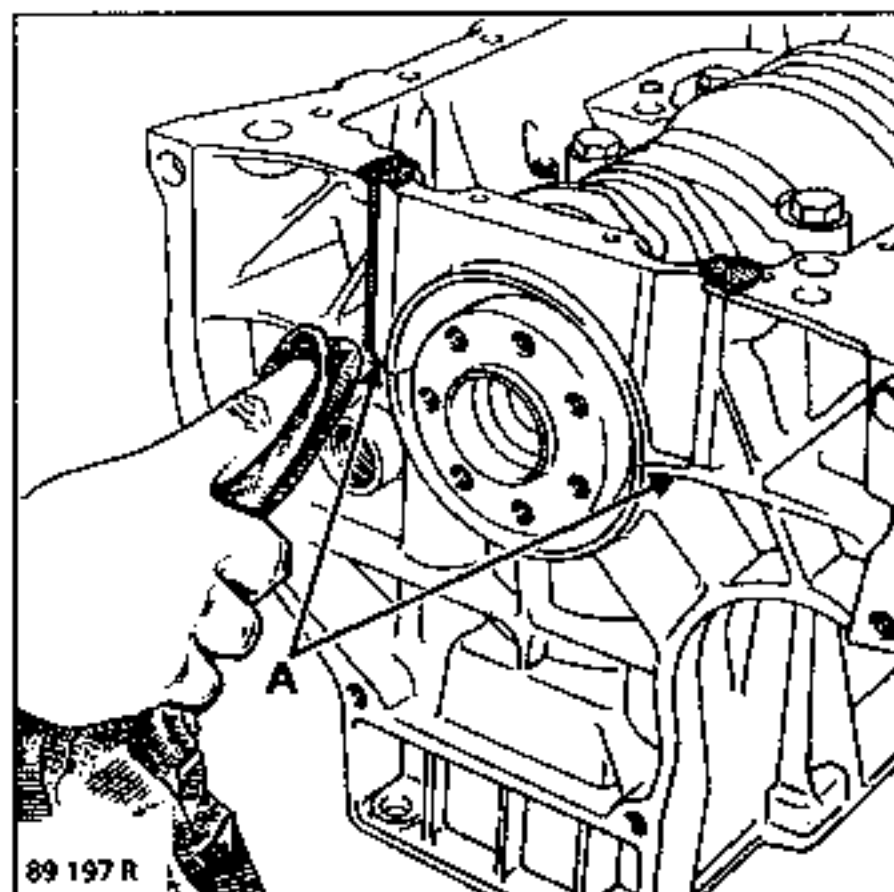
- Fit the caps and tighten to torque.
- Mix 45 ml of **CAF 4/60 THIXO** (approximately half the 100 gram tube) with the contents of half the tube of hardener using the stick to obtain a homogeneous mixture, which is slightly pink in colour.



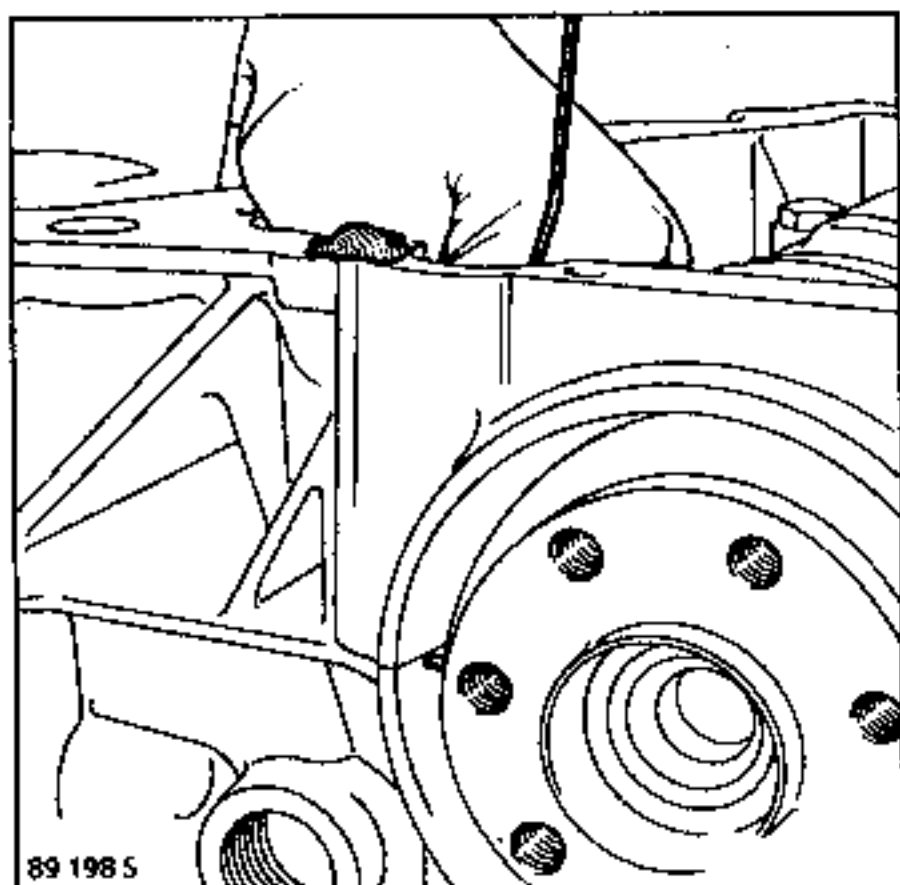
- Put the mixture in the syringe and inject it into the main bearing cap grooves.



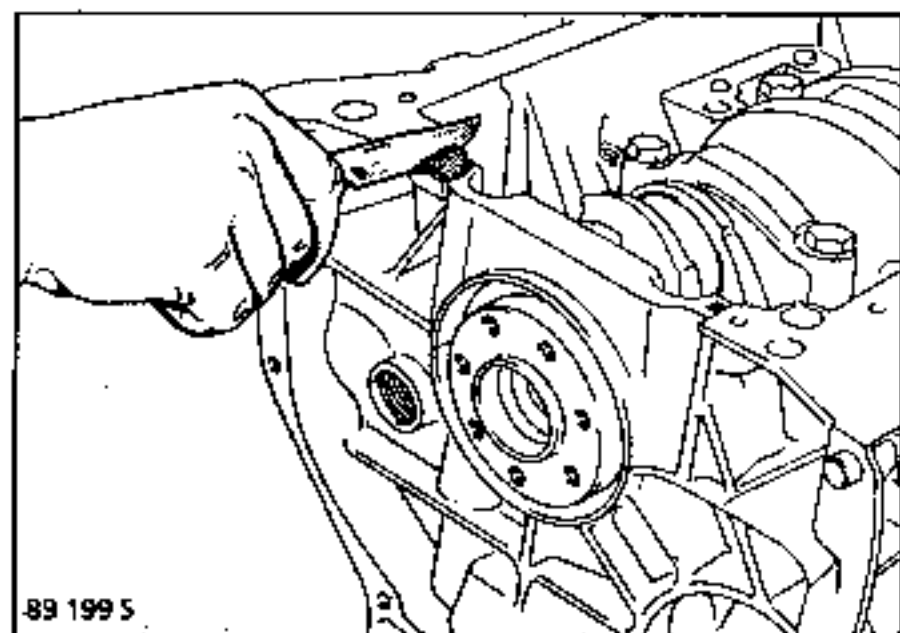
- Allow the mixture to flow out slightly either side of the main bearing cap grooves so as to be sure that the injected mixture has filled the sealing groove completely.
- Using a cloth, wipe away the surplus mixture, both inside and outside the cylinder block, and at (A).



- Pass a steel wire through the lubrication oilways to check that they are not blocked (or use compressed air).

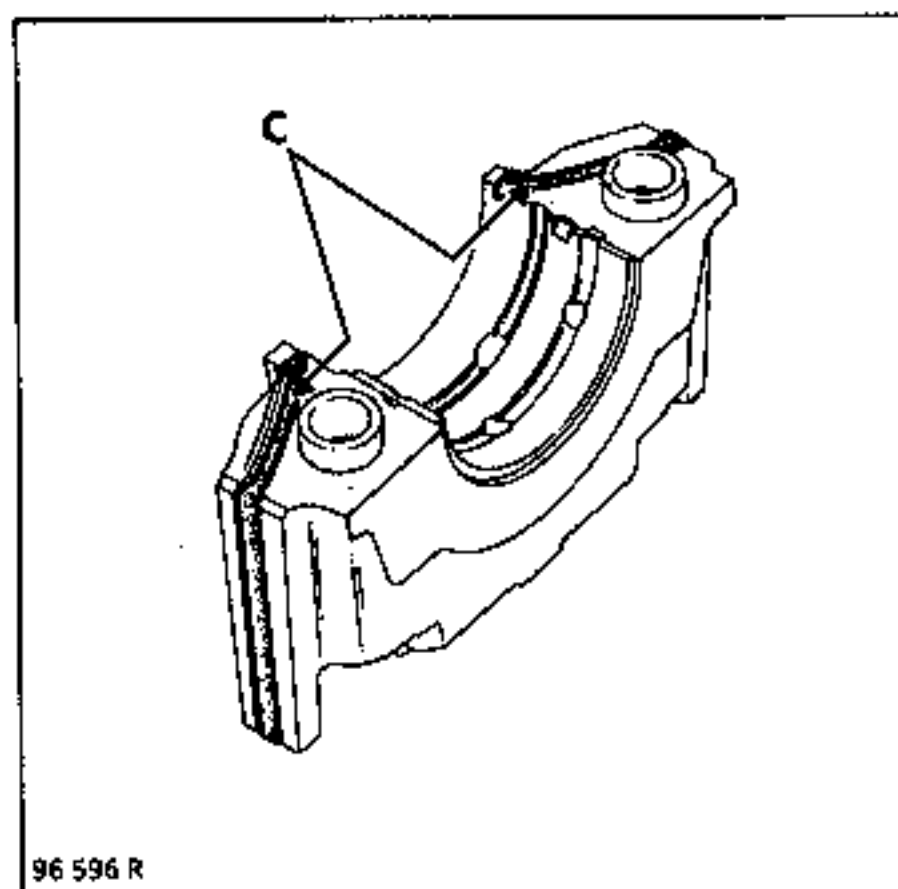


- Allow the assembly to dry for a few minutes and then cut the surplus sealant away from the joint face.



New type (J engine)

The main bearing caps have sealing grooves (C).



The silicone injection method is identical to the method for the old type, except :

- Do not coat the lower faces of the cylinder block.
- Fit the crankshaft and valve timing seal(s) before the silicone is injected.
- Allow the silicone to escape via the crankshaft bearing sealing grooves.

