

DISMANTLING : UNDER ENGINE**URGENT : Observe the safety and cleanliness recommendations** ⓘ .**1. Tooling**

tool	Reference	Designation
<div data-bbox="164 596 781 957" style="border: 1px solid black; padding: 5px;"> <p data-bbox="180 604 297 640">[0199-J]</p>  </div> <p data-bbox="168 963 347 989">Figure : E5AB0QZT</p>	[0199-J]	Oil sump seal cutting chisel

2. Preparation

Place the engine on a stand.
 Remove the cylinder head .
 Drain the engine oil off.

3. Removing : Engine flywheel

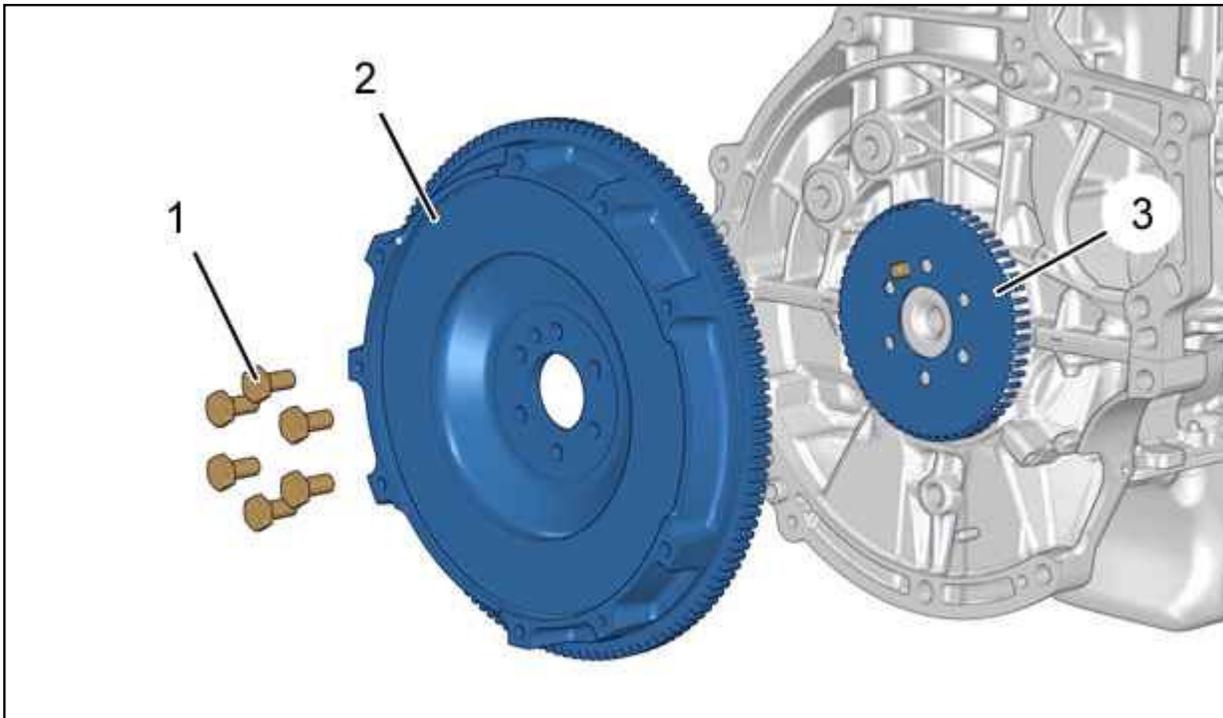


Figure : B1BG1NCD

Remove :

- The 6 bolts (1)
- The flywheel (2)
- The target (3)

4. Removing : sump

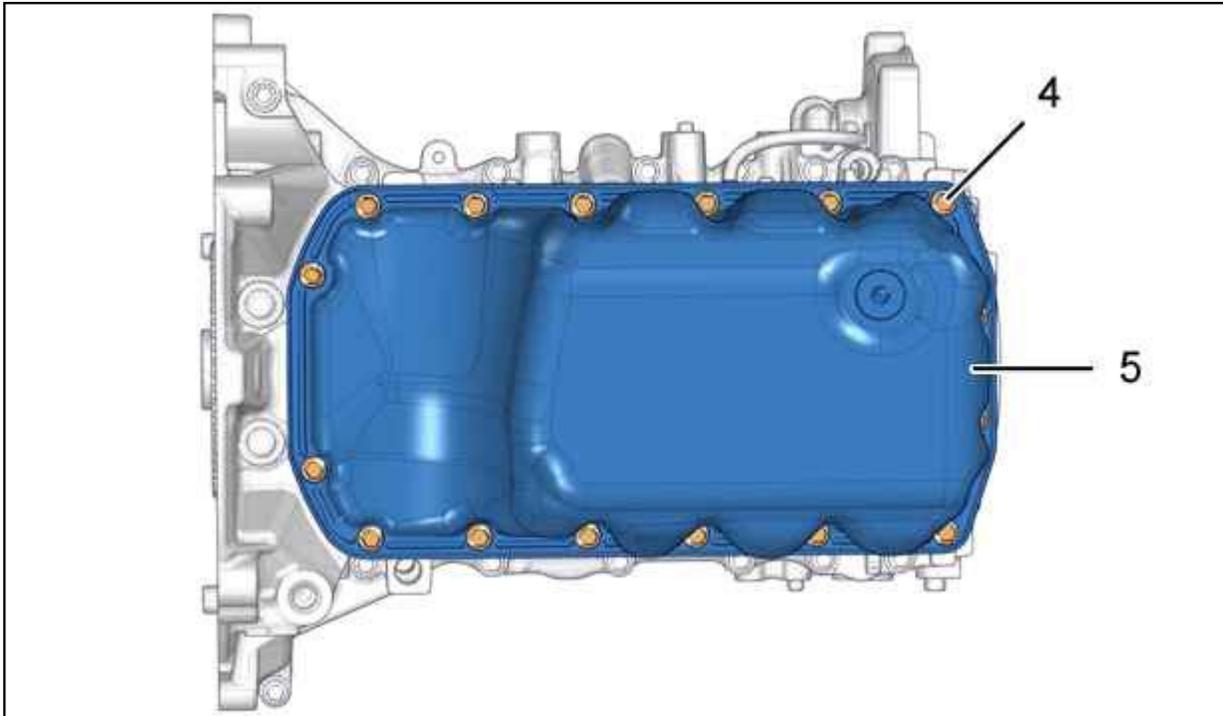


Figure : B1BG1NFD

Turn the cylinder block over.
Remove : The bolts (4) of the oil sump (5).

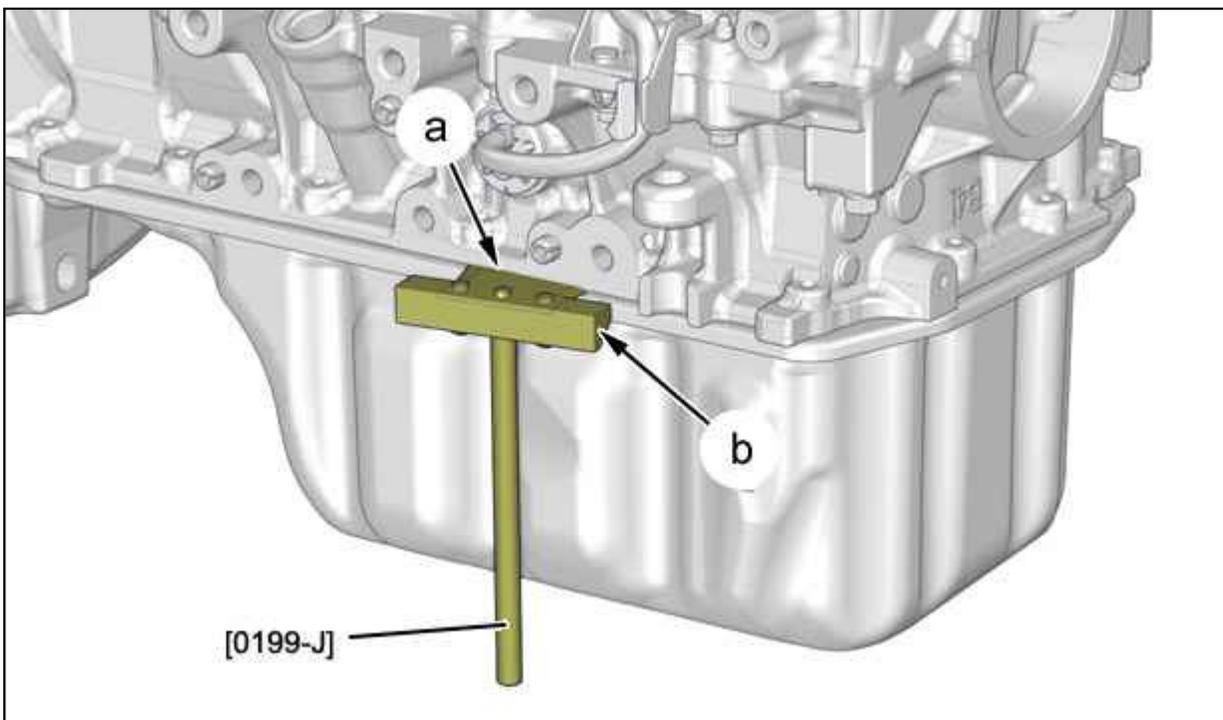


Figure : B1BG1NID

CAUTION : Do not use a lever to detach the oil sump : Risk of distortion of the oil sump.

Insert the tool [0199-J] (at "a").

Cut the seal by tapping with a hammer (at "b") to slide the tool [0199-J] on the periphery of the oil sump.

Remove the oil sump .

5. Removing : Oil pump

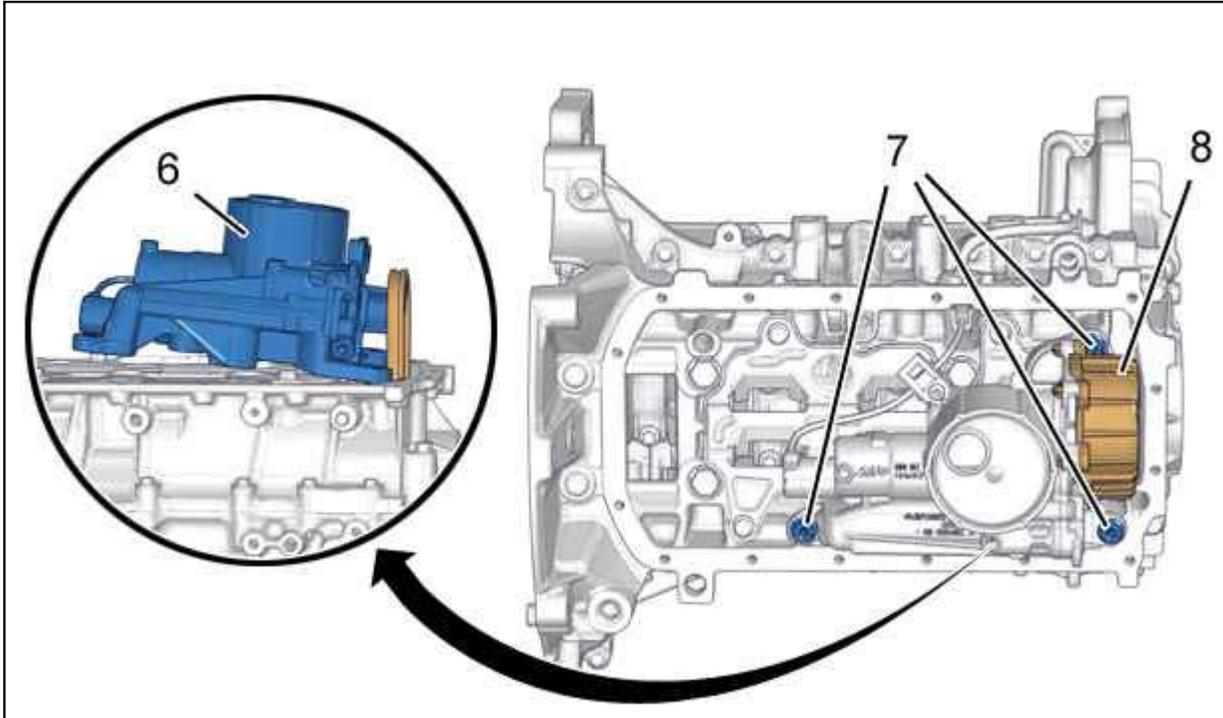


Figure : B1BG1NLD

Remove :

- Oil pump pinion cover (8)
- Oil pump attachment screws (7)

Tilt the oil pump (6) and remove it.

N.B. : It is not necessary to remove the oil pump pinion (6).

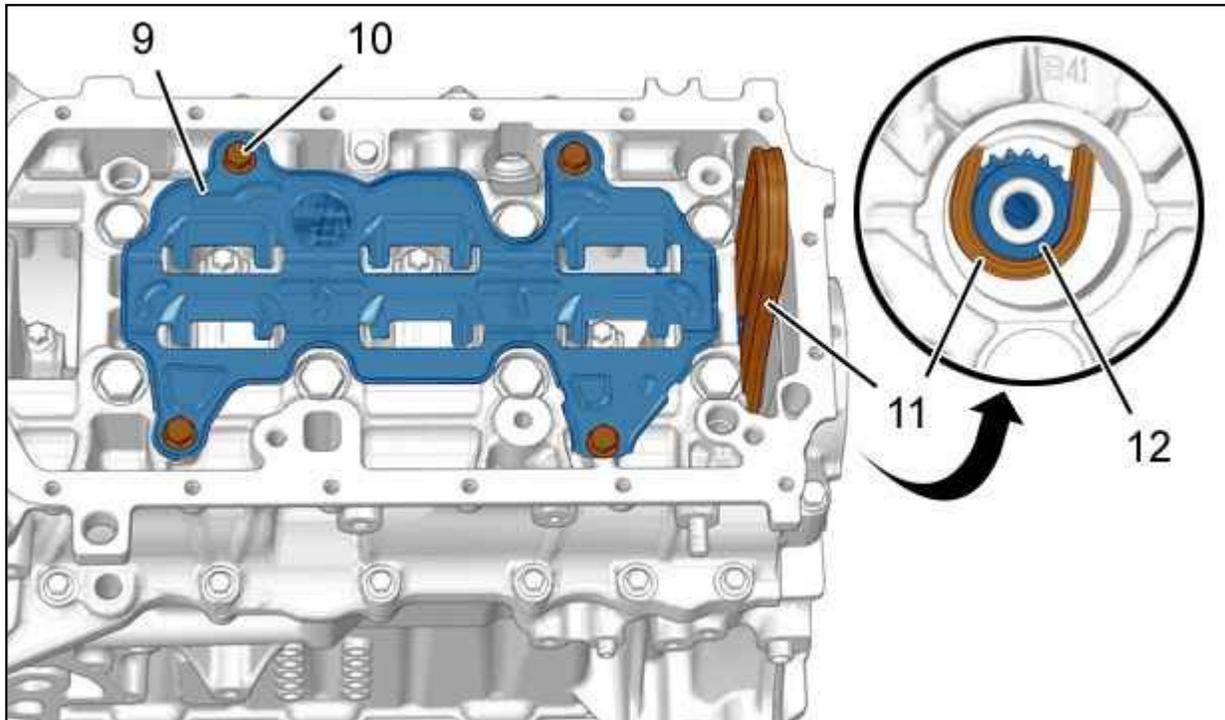


Figure : B1BG1NOD

Remove :

- Oil pump driving pinion (12)
- The chain (11)
- The 4 bolts (10)
- The anti-foaming baffle (9)

6. Removing : Bearing cap housing

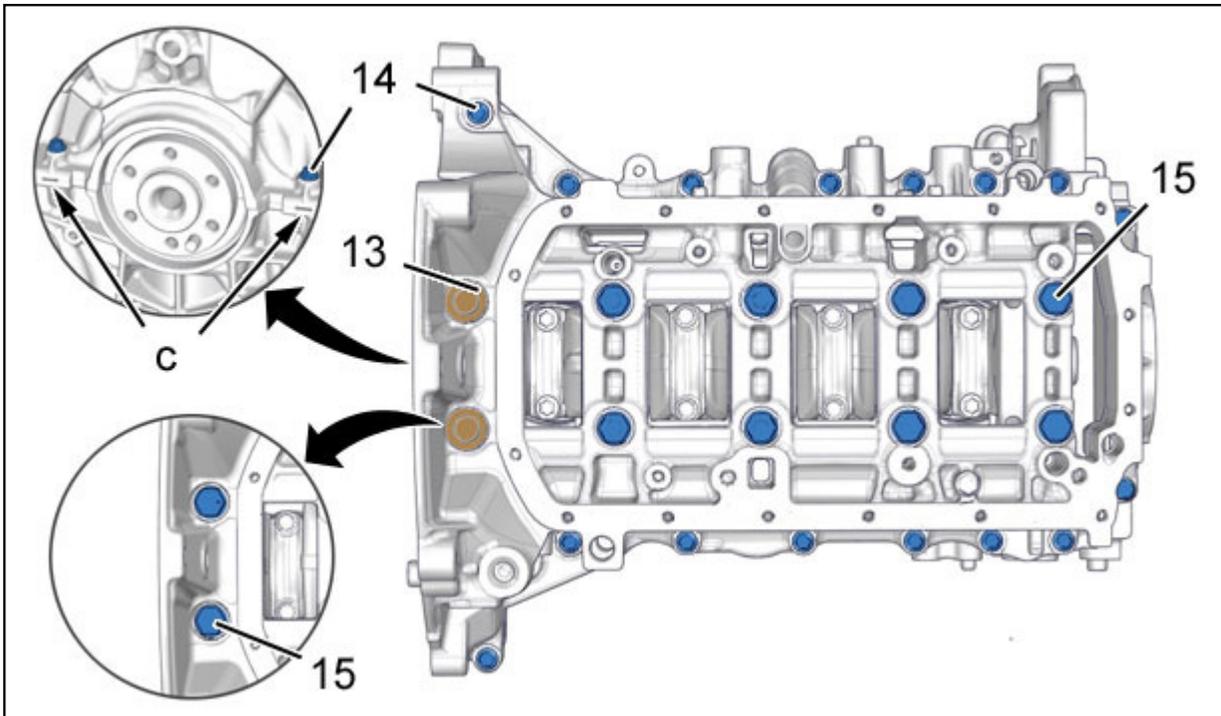


Figure : B1BG298D

Remove :

- The plugs (13)
- The bolts (14)
- The 10 bolts (15)

Lever with a screwdriver (at "c") ; Detach the crankshaft bearing cap housing .

CAUTION : Use new screws (14) (15) for refitting.

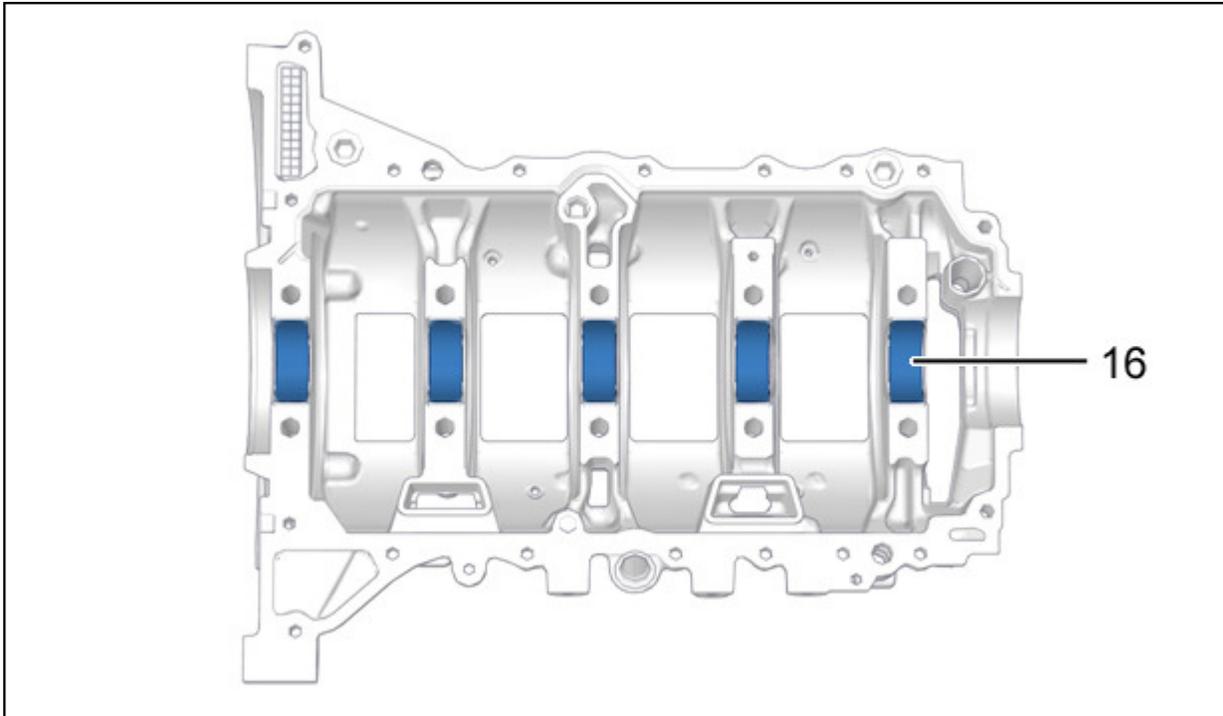


Figure : B1BG299D

Remove the smooth crankshaft bearing shells (16) from the crankshaft bearing cap housing.

7. Removing : Crankshaft

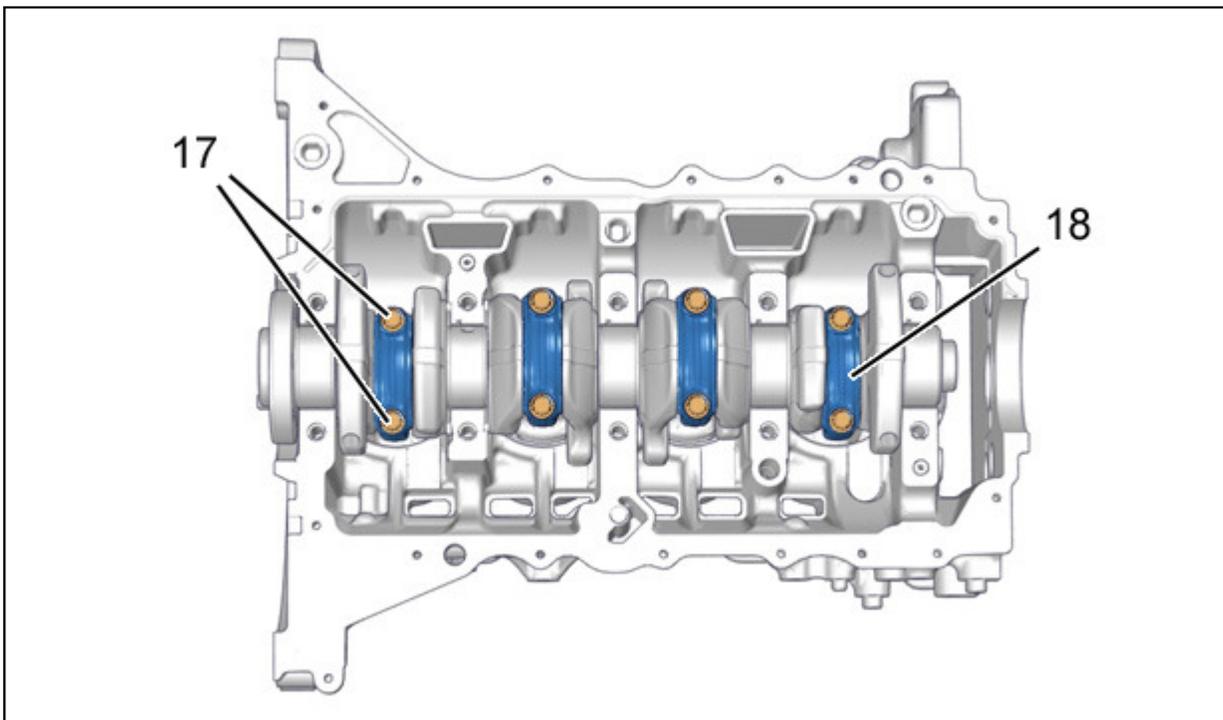


Figure : B1BG29AD

CAUTION : Identify the fitting direction of the big end caps (18) before removal.

Remove : The 8 connecting rod cap screws (17)(Cylinder by cylinder).

CAUTION : Use new screws (17) for refitting.

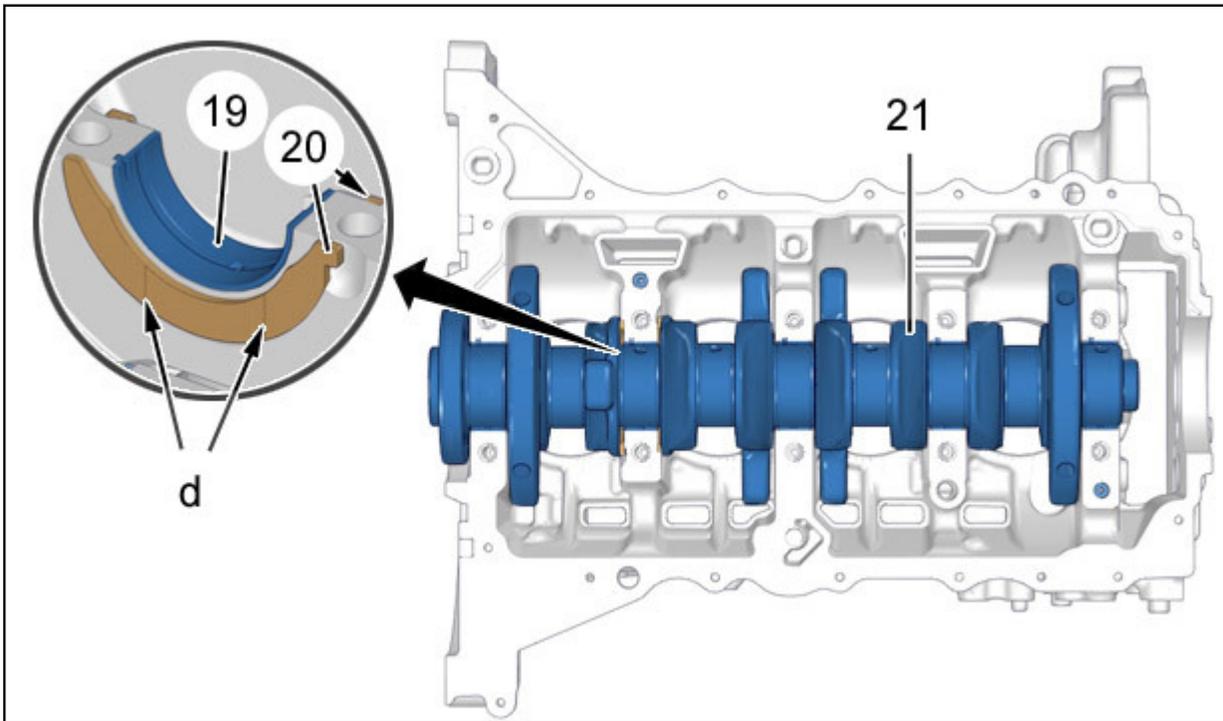


Figure : B1BG29BD

Remove :

- The crankshaft (21)
- The two crankshaft lateral play flanges (20) on bearing n°2
- The grooved crankshaft bearing shells (19)

CAUTION : Mark the direction of fitting of the crankshaft lateral play flanges (20), grooved side (at "d") crankshaft side.

8. Removing : Connecting rod/piston assemblies

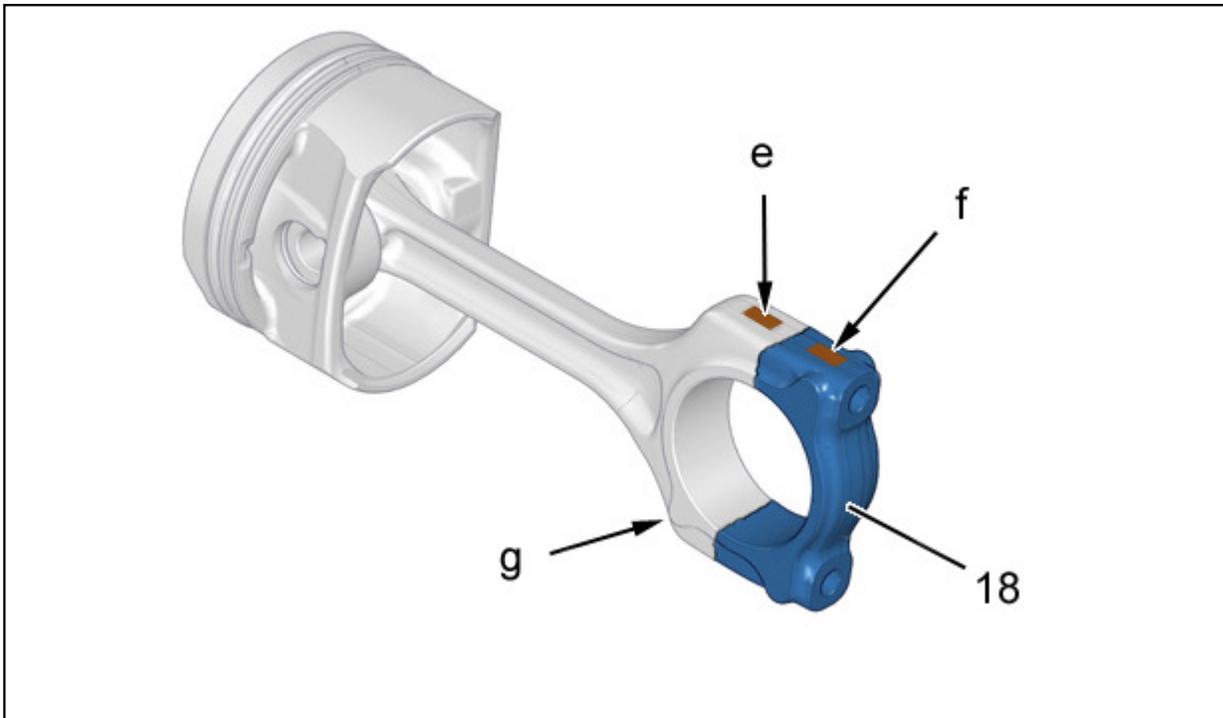


Figure : B1BG29CD

Remove the con rod/piston assembly from each cylinder.

CAUTION : Note the position and the matching of the conrod caps and conrods.

Mark a line in colour :

- To conrod (at "e")
- On big end cap (at "f")

Remove : The big end caps (18).

CAUTION : Mark the direction of fitting of the conrod, the 3rd boss (at "g") oriented to the timing end.

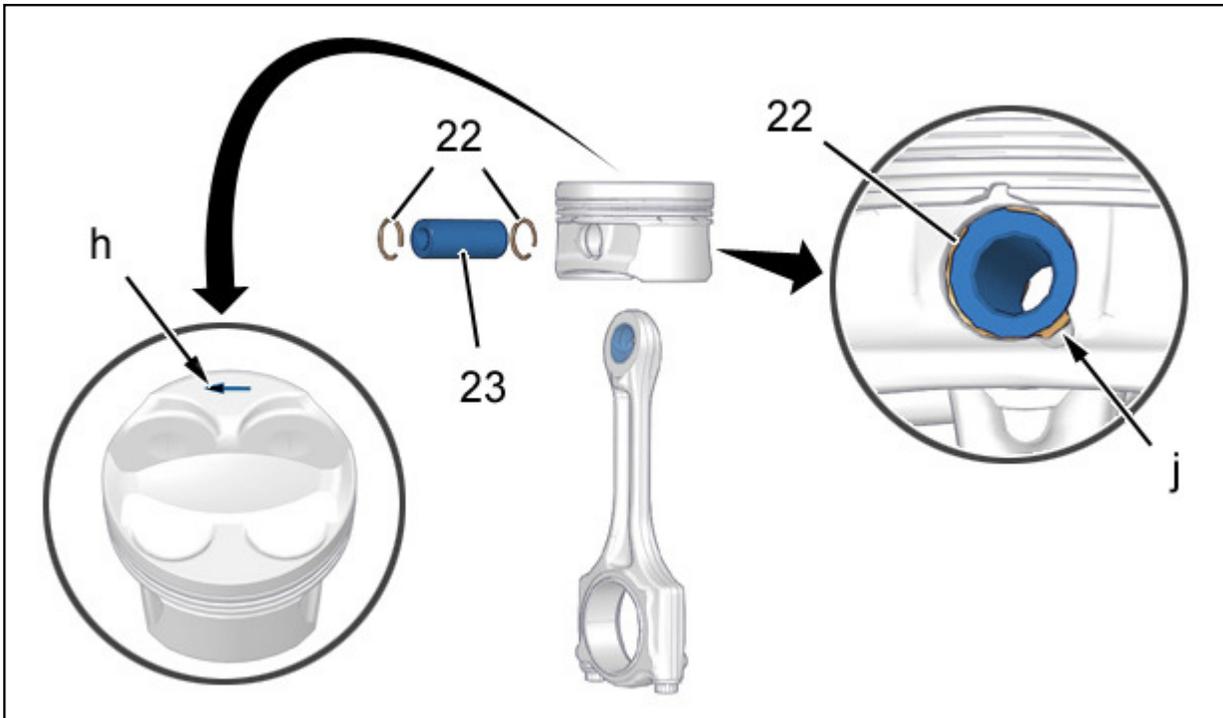


Figure : B1BG29DD

CAUTION : Mark the direction of fitting of the pistons, the arrow (at "h") oriented to the timing end.

N.B. : The piston shafts are free-fitted in the little ends and the pistons, then laterally immobilised by means of two stop rings.

Remove :

- The circlips (22); Lever up ; By means of a screwdriver (at "j")
- The gudgeon pin (23)
- The pistons