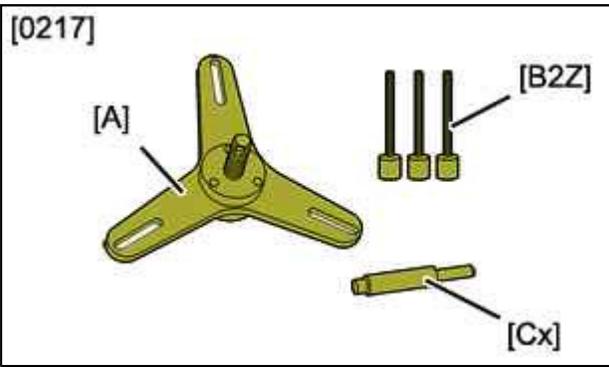


REMOVING - REFITTING : CLUTCH MECHANISM

URGENT : Observe the safety and cleanliness instructions  .

CAUTION : In order to improve the centering of the friction plate and to eliminate engine jerks, vibrations and noise, compress the clutch mechanism when tightening the fixing bolts ; Using tool [0217].

1. Tooling

Tool	Reference	Description
 <p>Figure : E5AG04PT</p>	[0217]	Clutch mechanism compression tool
	[0217-A]	Clutch mechanism compressor
	[0217-B2Z]	Retaining rod (Ø 8 mm)
	[0217-Cx]	Clutch centring drift (According to gearbox, See the table below)

Clutch centring drift							
Engine types	[0217-C1]	[0217-C2]	[0217-C3Z]	[0217-C4]	[0217-C5Z]	[0217-C6Z]	[0217-C7]
DV4		BE	MA/MAP				
DV4 C						MA/MAP	
DV6	MCM	BE			MCP		
DV6UC			BE				
DV6C (M)					MCP/MCM	BE	
DV6D (M)			BE				
DV6E (M)			BE				
DW10	ML/BE				MCP		
DW12	ML						W6MBA
4B12							W5MBA
EP3 - EP3C			BE/MA/MAP				
EP6 - EP6C (M)			BE/MA/MCM		MCP		
EP6CDTR					MCM		
EP6DTS					MCM		
EP6CDT					MCM/MCP		
EP6CDTX					MCM		
ES9				ML			
ET3			MA/MAP				

EW10						BE/MCP	
EW12						BE	
EW6						BE	
EW7						BE	
TU1			MA				
TU3			MA/MAP				
TU5			MA/MAP			BE	
SOFIM	MLGU5			M40			
PUMA	MLGU5/MLGU6						
1,3 DTE					MTM/MTA		

2. Clutch mechanism with automatic free play adjustment

2.1. Removing

Remove the gearbox.

N.B. : Mark the position of the clutch mechanism with play adjustment in relation to the double damping flywheel (DVA).

CAUTION : The clutch mechanism and disc are paired at the factory and cannot be replaced separately.



Figure : B2BG01DD

Fit the tool [0217-CX].

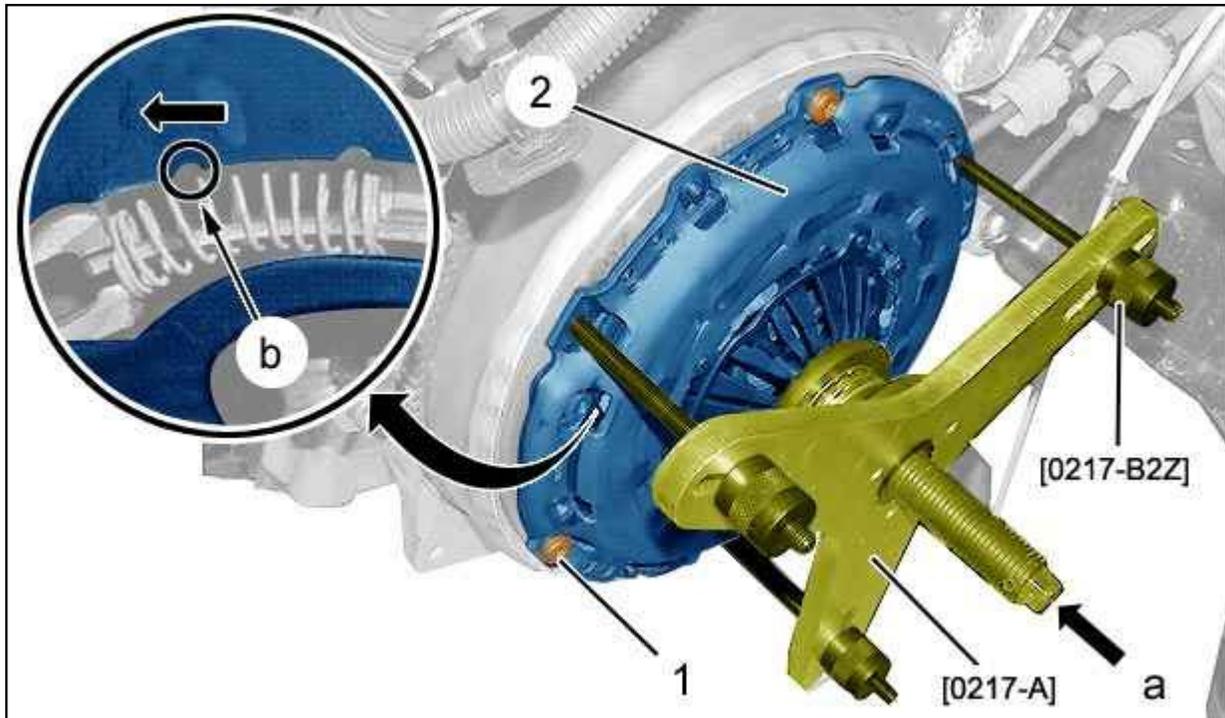


Figure : B2BG01ED

Remove the 3 fixing screws (1) (Every second bolt).
Position the tools [0217-A] and [0217-B2Z] on the clutch mechanism (2).

Screw :

- The 3 retention rods [0217-B2Z] ; In the place of the bolts (1)
- Compress the clutch mechanism (2) with the central bolt of tool [0217-A] (at "a")

CAUTION : During the compression, the spring must not move beyond mark "b" to avoid destroying the clutch mechanism (2).

Finish removing the remaining bolts (1).
Release the clutch mechanism (2) by moving the central bolt of the tool [0217-A] (at "a").
Remove tools [0217-A] and [0217-B2Z].

Remove :

- The clutch mechanism (2)
- The clutch disc

2.2. Refitting ; Common operations

CAUTION : Observe the tightening torque values.

Visually check :

- The flywheel face for damage or scores
- The flywheel for wear
- The condition of the starter ring gear
- The clutch mechanism (2)

In the case of oil presence in the clutch mechanism (2) :

- Replace the seal of the crankshaft
- Replace the clutch thrust bearing guide

CAUTION : Do not re-use a clutch disc whose hub shows any signs of corrosion.

Eliminate all traces of corrosion from the primary shaft and from the bearing guide ; By hand using a metal brush.

CAUTION : Clean the input shaft completely along its entire length, over its entire periphery and in the grooves.

Vehicles equipped with a gearbox that has a mechanical clutch bearing : Spray a little grease MOLYCOTE G-RAPID PLUS (aerosol) on the splines of the primary shaft and on the clutch bearing guide tube .

Vehicles equipped with a gearbox that has a hydraulic clutch bearing : Grease the splines of the primary shaft with Klüberpaste 46 MR 401.

CAUTION : An excess of grease will contaminate the clutch friction plate and cause noise in neutral, slipping or juddering of the clutch.

N.B. : Protect the interior of the clutch housing from splashes of grease.

Remove the surplus grease on the top of the grooves and the end of the input shaft using a cloth.

2.3. Special feature ; Reused clutch mechanism with automatic play adjustment ; Supplier: VALEO

Resetting of the clutch wear adjustment to zero.

Refit the clutch disc .

Centre the clutch disc ; Using tool [0217-CX].

Refit the clutch mechanism (2).

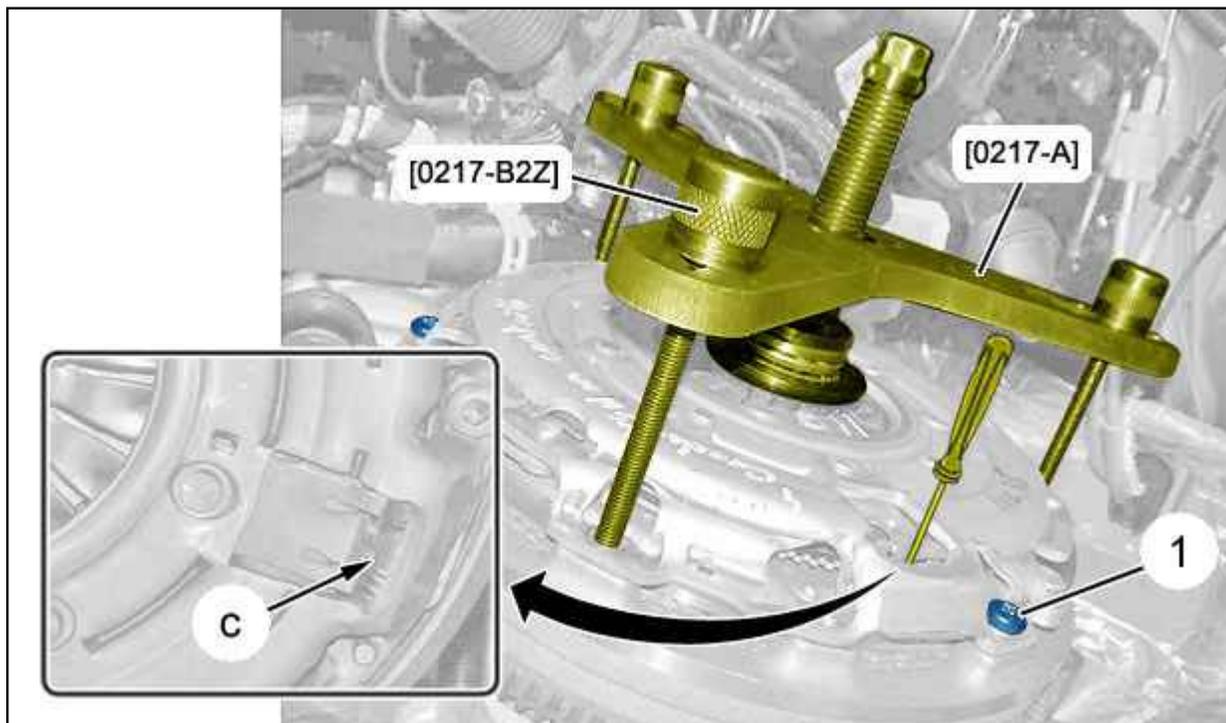


Figure : B2BG05ND

Position the tools [0217-A] and [0217-B2Z] on the clutch mechanism (2).

Screw in the 3 retaining rods [0217-B2Z] in place of the fixing screws (1).

Using a small, flat, thin screwdriver ; Declutch (at "c").

2.4. Refitting ; Reused clutch mechanism with automatic play adjustment ; Common operations

Resetting of the clutch wear adjustment to zero.

CAUTION : The play adjustment is reset to zero without the clutch disc.

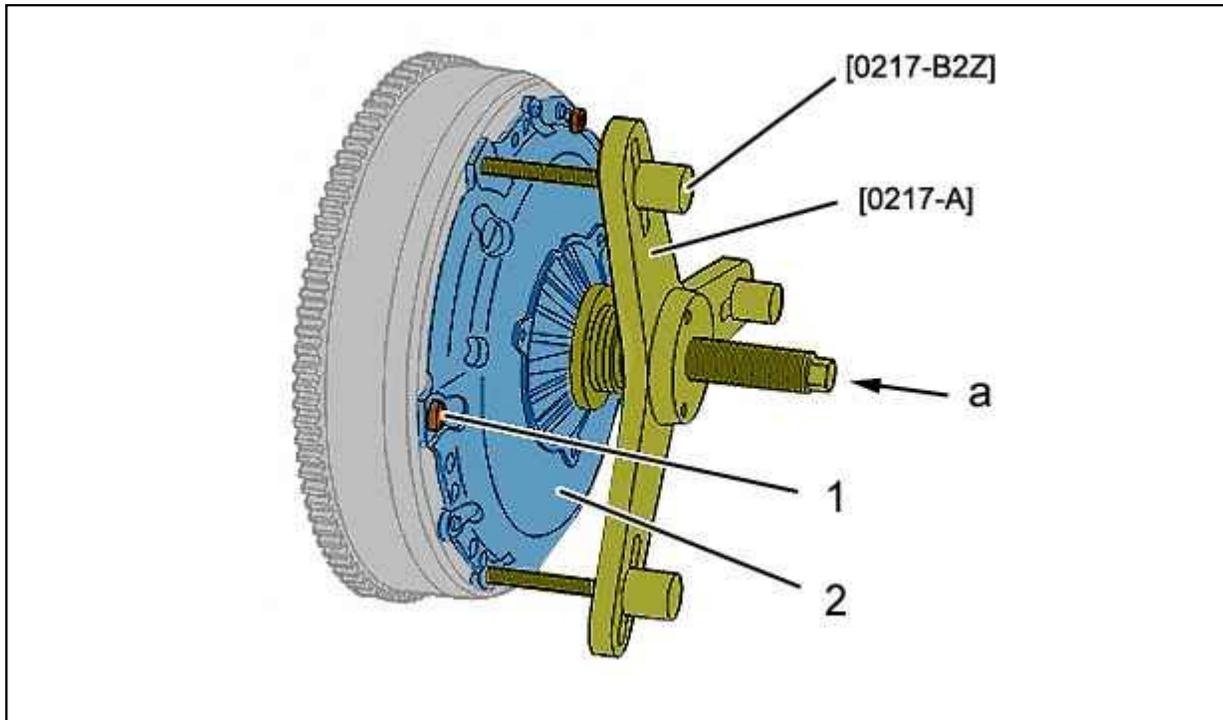


Figure : B2BG01ID

Refit the clutch mechanism (2) without the clutch disc .

Position the tools [0217-A] and [0217-B2Z] on the clutch mechanism (2).

Screw :

- The 3 retaining rods [0217-B2Z] in place of the fixing screws (1)
- Compress the clutch mechanism (2) with the central bolt of tool [0217-A] (at "a")

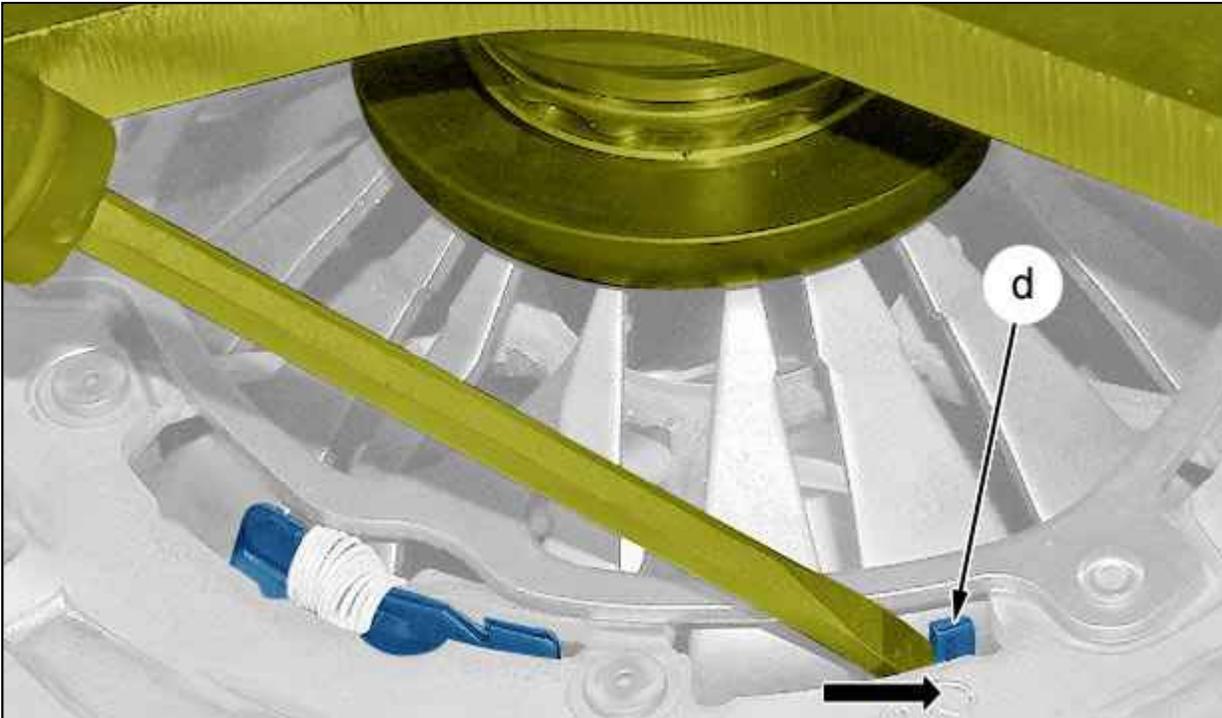


Figure : B2BG05PD

Keep the clearance adjustment springs compressed and unscrew the centre bolt of the tool [0217-A] (at "a") a few turns to detension the clutch mechanism (2).
Compress the 3 free play adjustment springs ; By means of a screwdriver ; Press on the index (at "d") (following the arrow).

CAUTION : Keep the clearance adjustment springs compressed and unscrew the centre bolt of the tool [0217-A] (at "a") a few turns to detension the clutch mechanism (2). The play adjustment springs should remain compressed.

Unscrew the centre bolt of the tool [0217-A] (at "a") by several turns to detension the clutch mechanism (2).

Remove :

- Tools [0217-A] and [0217-B2Z]
- The clutch mechanism (2)

Refit the clutch mechanism (2) without the clutch disc (follow the procedure "fitting a new clutch mechanism with automatic play adjustment").

2.5. Refitting : Clutch mechanism with automatic free play adjustment (New)

CAUTION : The clutch mechanism (2) and the clutch disc are matched at the factory and cannot be replaced separately.

CAUTION : When refitting it, position the face of the clutch disc where it says n° PSA 96 XXX XXX 80, gearbox end.

Refit the clutch disc .

Centre the clutch disc ; Using tool [0217-CX].

N.B. : Do not remove the tool [0217-CX].

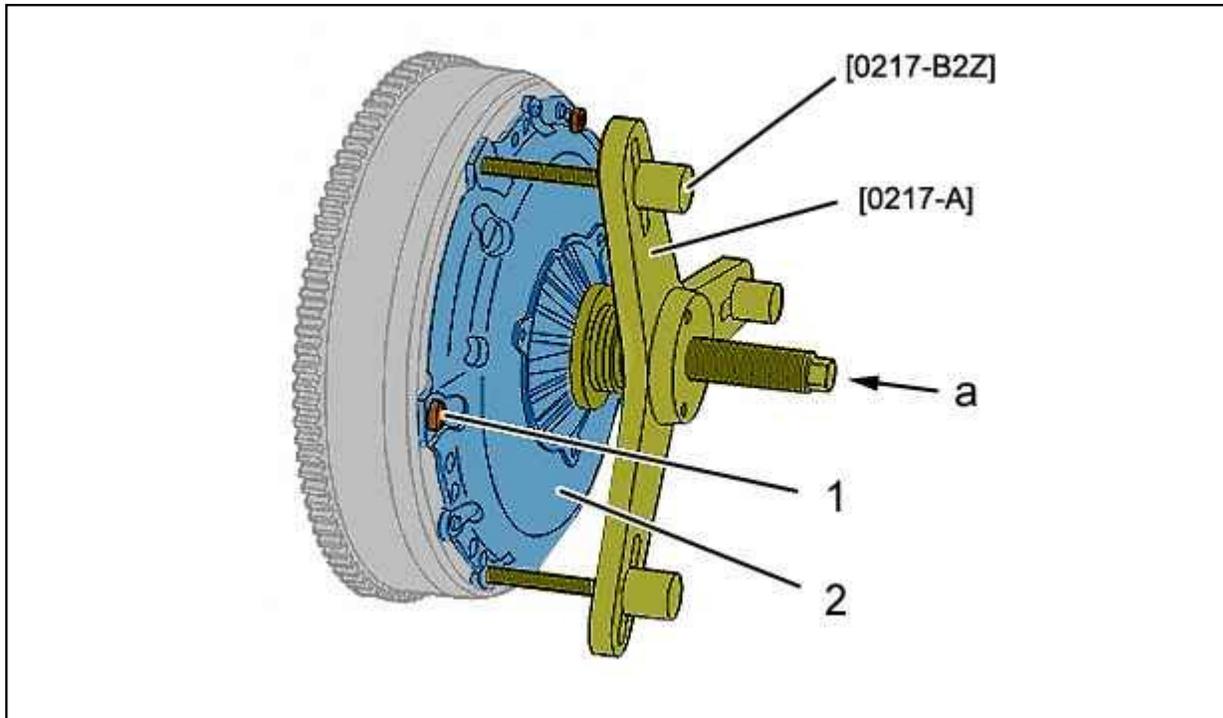


Figure : B2BG01ND

Refit the clutch mechanism (2).

Position the tools [0217-A] and [0217-B2Z] on the clutch mechanism (2).

Screw :

- The 3 retaining rods [0217-B2Z] in place of the fixing screws (1)
- Compress the clutch mechanism (2) with the central bolt of tool [0217-A] (at "a")

Replace the bolts (1).

Unscrew the centre bolt of the tool [0217-A] (at "a") by several turns to detension the clutch mechanism (2).

Remove tools [0217-A], [0217-B2Z] and [0217-CX].

Fit : The remaining fixing screws (1).

Refit the gearbox.

3. Clutch mechanism without automatic play adjustment

3.1. Removing

Remove the gearbox.

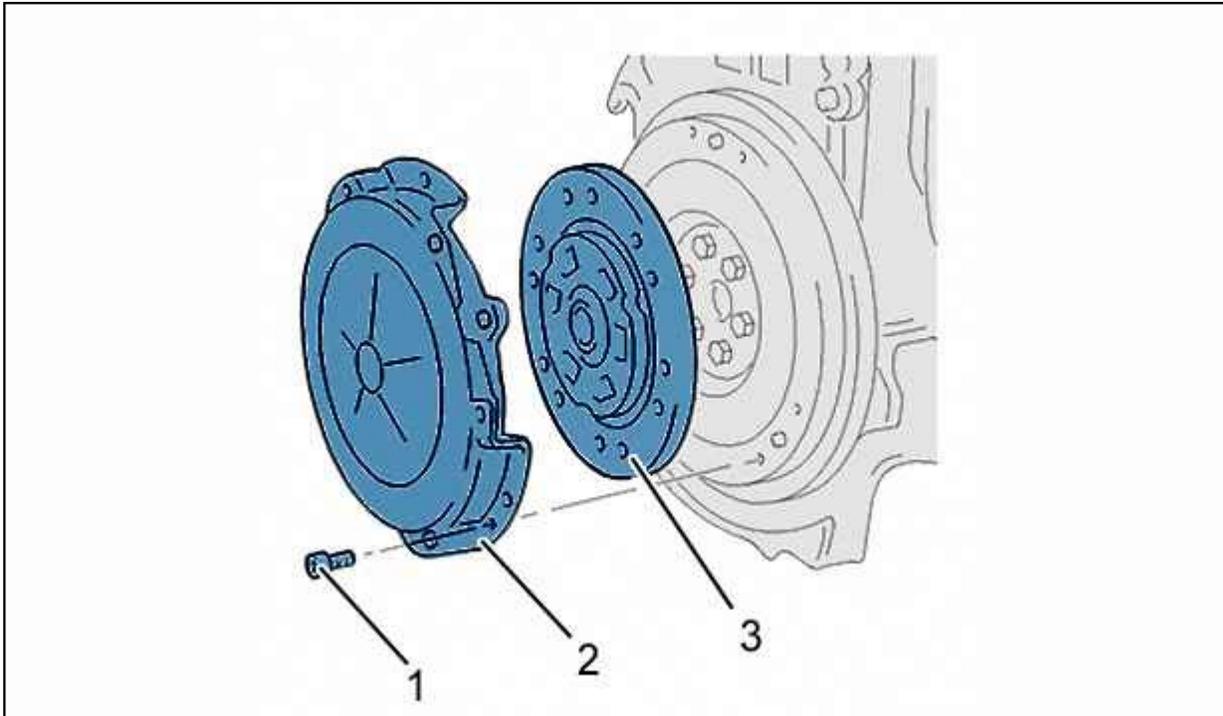


Figure : B2BP2QMD

Remove :

- The securing bolts (1)
- The clutch mechanism (2)
- The clutch disc (3)

3.2. Refitting

CAUTION : Observe the tightening torque values.

Visually check :

- The flywheel face for damage or scores
- The flywheel for wear
- The condition of the starter ring gear
- The clutch mechanism (2)

In the case of oil presence in the clutch mechanism (2) :

- Replace the seal of the crankshaft
- Replace the clutch thrust bearing guide

CAUTION : Do not re-use a clutch disc (3) whose hub shows any signs of corrosion.

Eliminate all traces of oxidation from the primary shaft and the thrust bearing guide ; Using a metal brush.

CAUTION : Clean the input shaft completely along its entire length, over its entire periphery and in the grooves.

Vehicles equipped with a gearbox that has a mechanical clutch bearing : Spray a little grease MOLYCOTE G-RAPID PLUS (aerosol) on the splines of the primary shaft and on the clutch bearing guide tube .

Vehicles equipped with a gearbox that has a hydraulic clutch bearing : Grease the splines of the primary shaft with KLUBERPASTE 46 MR 401.

N.B. : Protect the interior of the clutch housing from splashes of grease.

Remove the surplus grease on the top of the grooves and the end of the input shaft using a cloth.

CAUTION : When refitting it, position the face of the clutch disc (3) where it says n° PSA 96 XXX XXX 80, gearbox end.

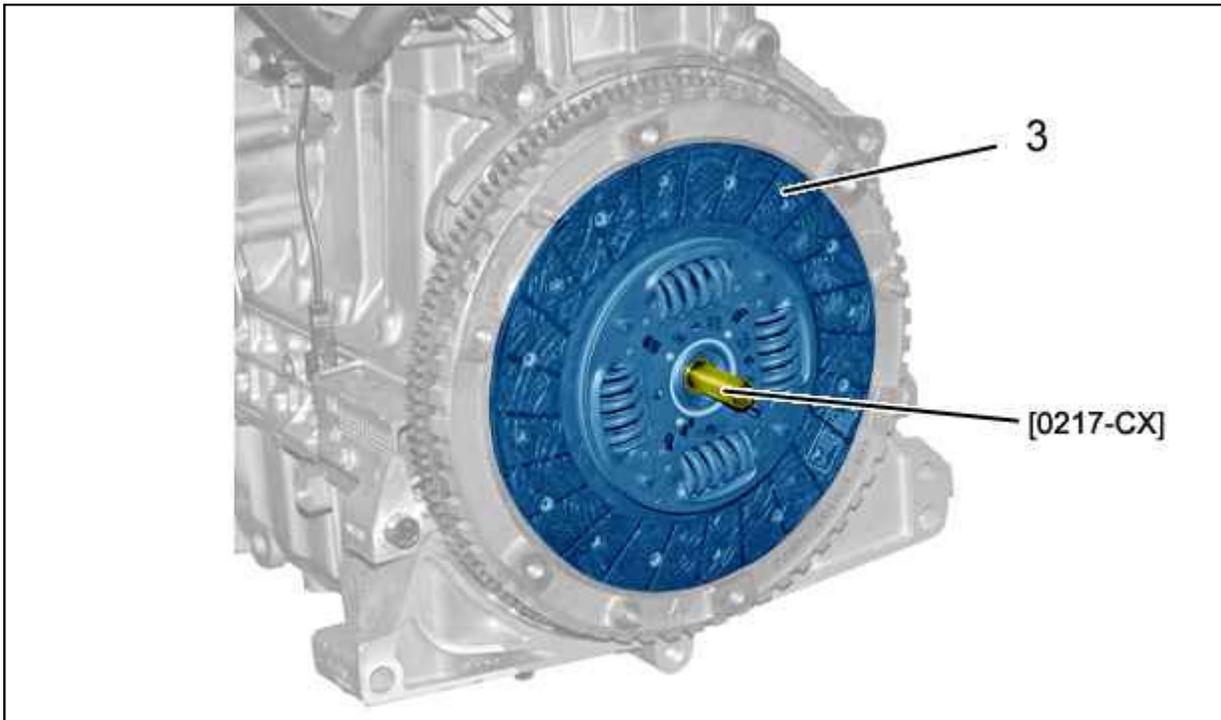


Figure : B2BG01WD

Refit the clutch disc (3).
Centre the clutch disc (3) ; Using tool [0217-CX].



Figure : B2BM01JD

Refit the clutch mechanism (2).

N.B. : Do not remove the tool [0217-CX].

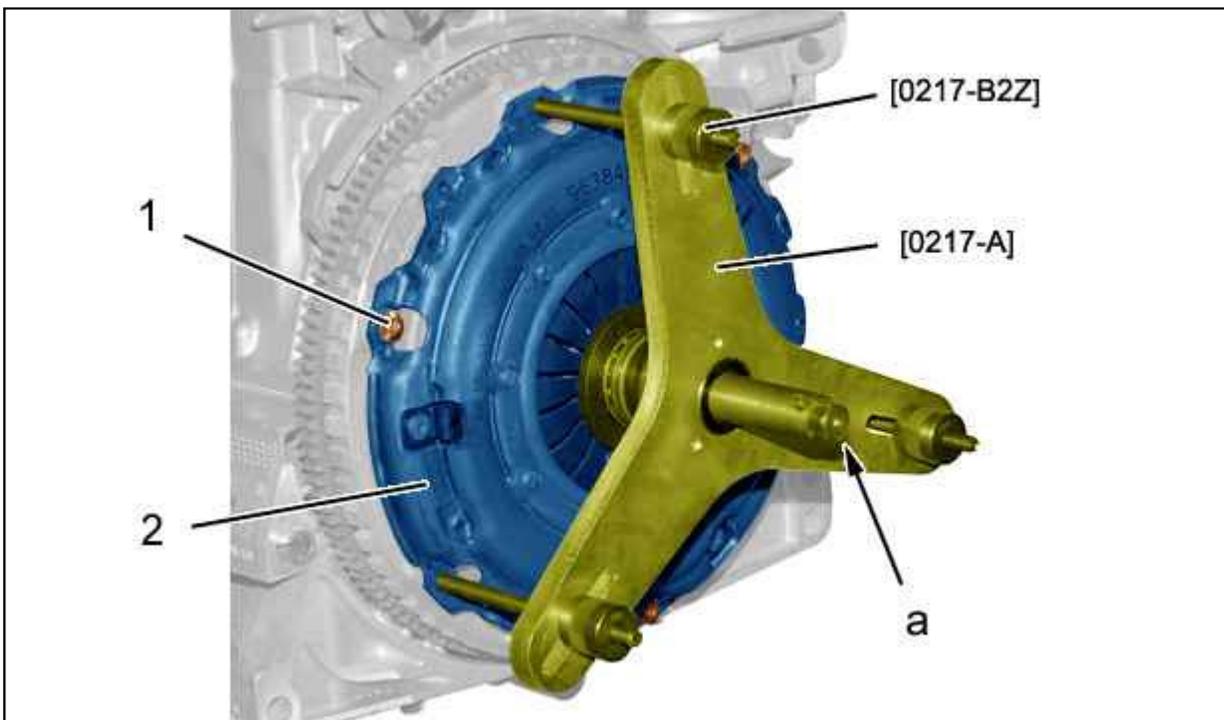


Figure : B2BG01YD

Fit tools [0217-A] and [0217-B2Z].

Compress the clutch mechanism (2) by 10 mm by turning the centre bolt of the tool [0217-A] (at "a").

The first 3 fixing screws (1).

Release the clutch mechanism (2) by moving the central bolt of the tool [0217-A] (at "a").

Remove tools [0217-A], [0217-B2Z] and [0217-CX].

Fit :

- The remaining fixing screws (1)
- The gearbox