



Clutch replacement

Removal of the clutch mechanism and refitting of the mechanism. With removal of the gearbox.

Model: C3 II 1.6vti similar for all models.

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TOOLS:

- [Ratchet and socket set](#) (1)
- [30mm socket](#) (1)

12-point socket for removing universal joint nuts

- [13 flat key + 16 flat key](#) (1)
- [Jack](#) (1)
- [Candles.](#) (1)
- [Drain pan](#) (1)
- [8mm drain key](#) (1)
- [torque wrench](#) (1)

Optional

- [Key all](#) (1)

Allen key set

- [Clutch disc centering tool](#) (1)



PARTS:

- [clutch kit](#) (1)
- [Sealing ring on right transmission gearbox](#) (1)
- [Sealing ring on left transmission gearbox](#) (1)

- [guide sleeve](#) (1)

- [Clutch fork](#) (1)

Replace only if wear is severe

- [Transmission oil](#) (1)

75W80 2 litres

- [Universal high temperature lithium grease](#) (1)

Step 1 — Clutch replacement



- Open the engine hood
- Raise the vehicle using a jack and wedge it with 2 axle stands so that the vehicle is no longer resting on its front wheels.
- Remove the 2 front wheels

Step 2



- Operations to be carried out on both sides:
- Wedge a large flathead screwdriver into one of the disc vents and against the caliper.
- Unscrew and remove the universal joint nut using a 30mm 12-point socket.

Step 3



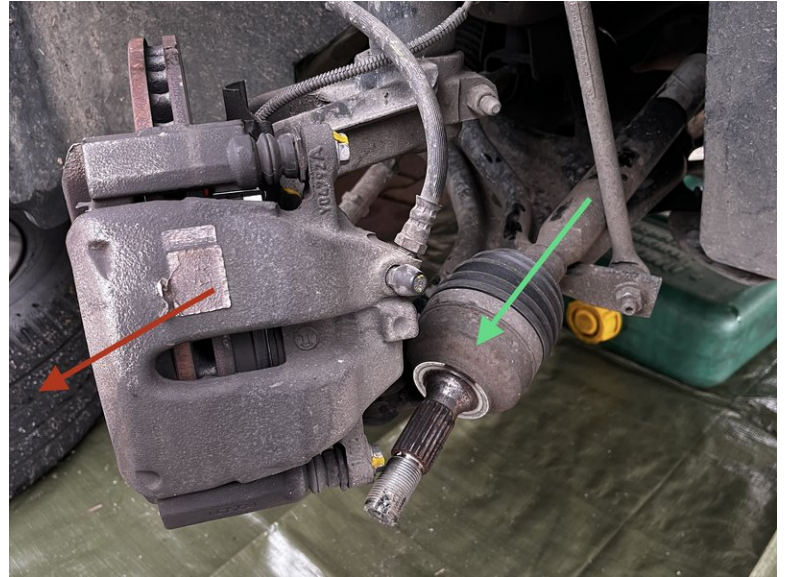
- Operations to be carried out on both sides:
- Unscrew the steering ball joint fixing nut with a 16 wrench until it is flush with the ball joint screw. Then tap it with a mallet to remove the ball joint and then finish removing the nut.

Step 4



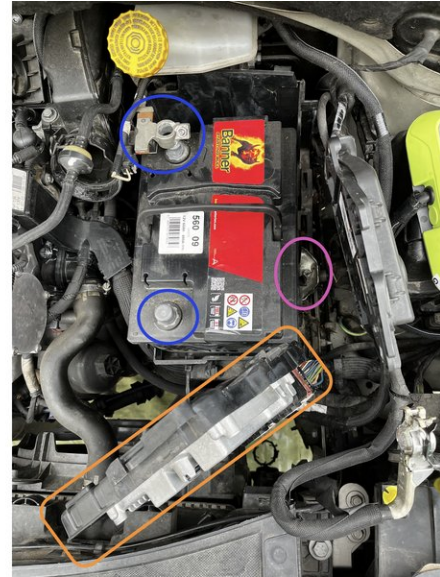
- Under the vehicle:
- Unscrew and remove the 2 screws securing the anti-roll bar. Then remove the anti-roll bar.
- Unscrew and remove the 2 lower engine mount fixing screws. Then remove the engine mount.
- Place a drain pan under the gearbox drain screw and unscrew the drain screw using a drain wrench to drain the gearbox.
- Wait until all the oil has drained, then replace the drain screw and tighten securely.
- Remove the drain pan from under the vehicle.

Step 5



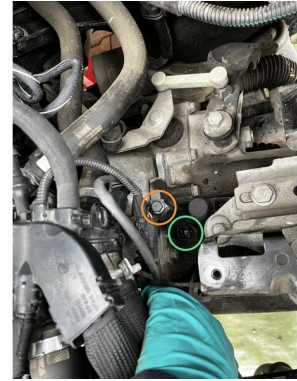
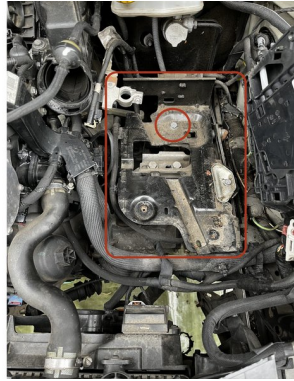
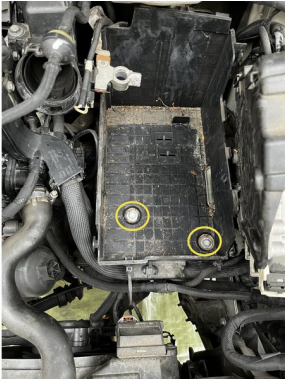
- Operations to be carried out on both sides:
- To separate the suspension from the suspension arm, unscrew and remove the 3 suspension ball joint fixing screws using a 16mm wrench and an Allen key.
- Pull the suspension towards you so as to release the universal joint.
- Pull the gimbal towards you to remove it.

Step 6



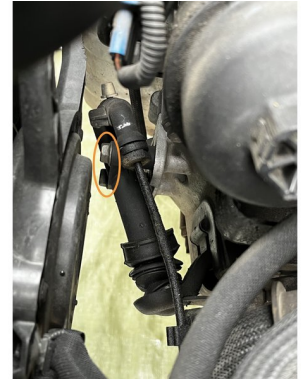
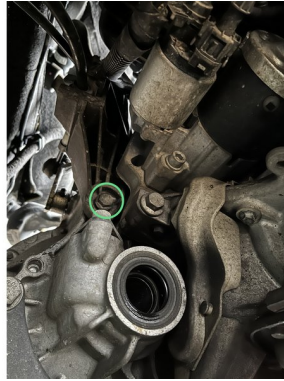
- At the engine compartment level:
- Remove the air intake pipes.
- Remove the battery cover.
- Remove the computer cover.
- Pull the calculator upwards to remove it from its housing and position it in front of the battery.
- Disconnect the battery terminals starting with the negative terminal.
- Unscrew the battery fixing screw using a 10 wrench, and remove the battery from its housing.

Step 7



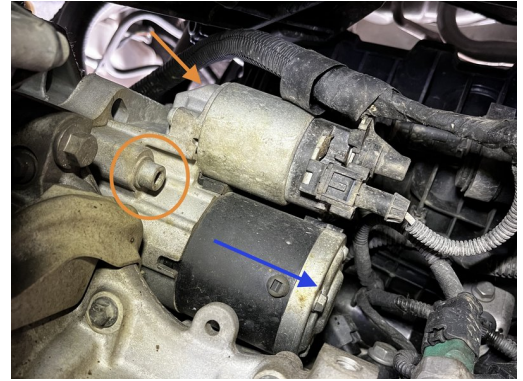
- Unscrew the two battery tray mounting screws and remove the battery tray.
- ⚠ When removing the tray, be sure to unclip all the cable ties attached around the tray.
- Unscrew and remove the battery tray support fixing screw using a 10 wrench and remove the support.
- ⚠ When supporting, be sure to unclip all the cable ties attached to the support.
- Disconnect the reverse sensor from the gearbox.
- Disconnect the negative cable and connect it to the gearbox using a 13mm wrench.

Step 8



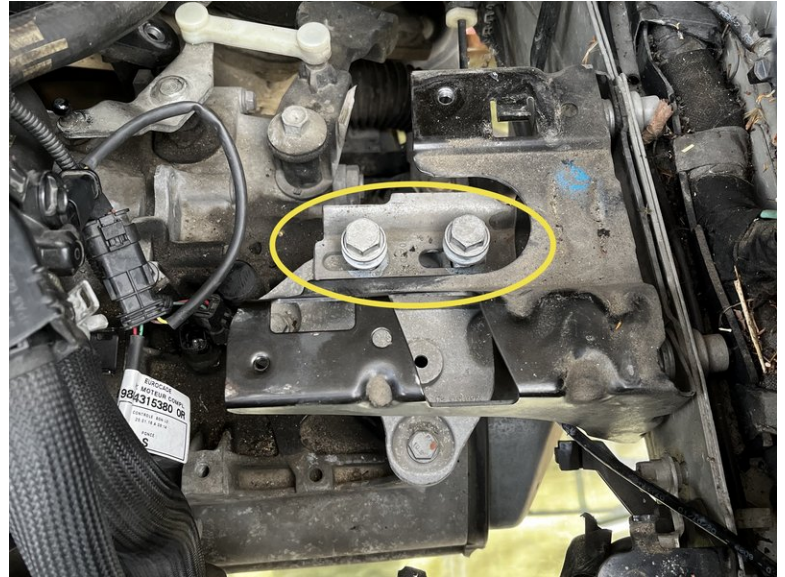
- Remove the 2 gearshift cables from the gearbox by levering under the Silentbloc with a 13 flat spanner.
 - Remove the cable support fixing screw using a 13 mm wrench.
 - Under the vehicle, unscrew the second screw of the cable support using a 13 wrench and release the cable support.
 - In the engine compartment, unscrew the two clutch receiver mounting screws using a 13mm wrench. And remove the receiver from the gearbox.
- ⚠ Do not disconnect the clutch receiver, just remove it from the gearbox and place it nearby.

Step 9



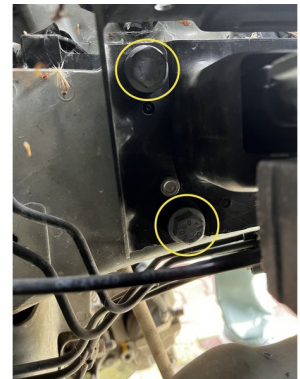
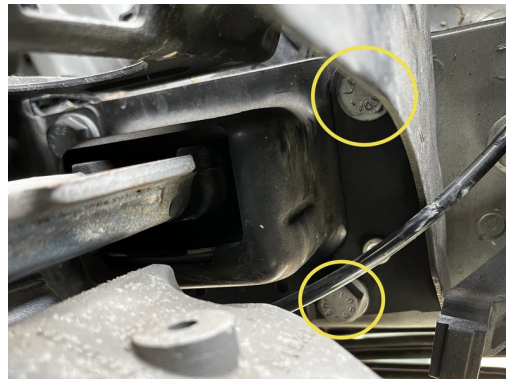
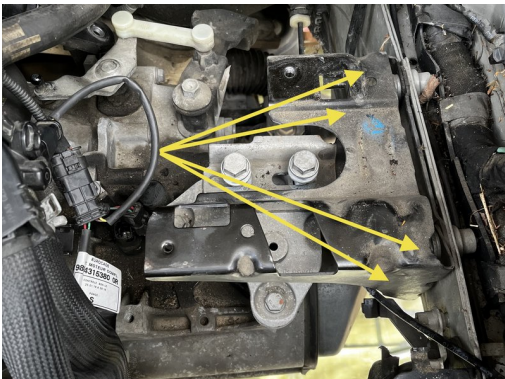
- Remove the 2 nuts securing the cable support fixed to the gearbox using a 13 wrench.
- Pull the cable holder and place it a little higher to remove it from the fixing rods
- Remove the upper starter mounting screw using a bit or an H6 Allen key.
- Under the vehicle: Unscrew and remove the two starter mounting screws using a bit or an H6 Allen key. (The one that is easily accessible but not visible is located above.)
- Pull the starter to the side to remove it from its housing; there is no need to disconnect it.

Step 10



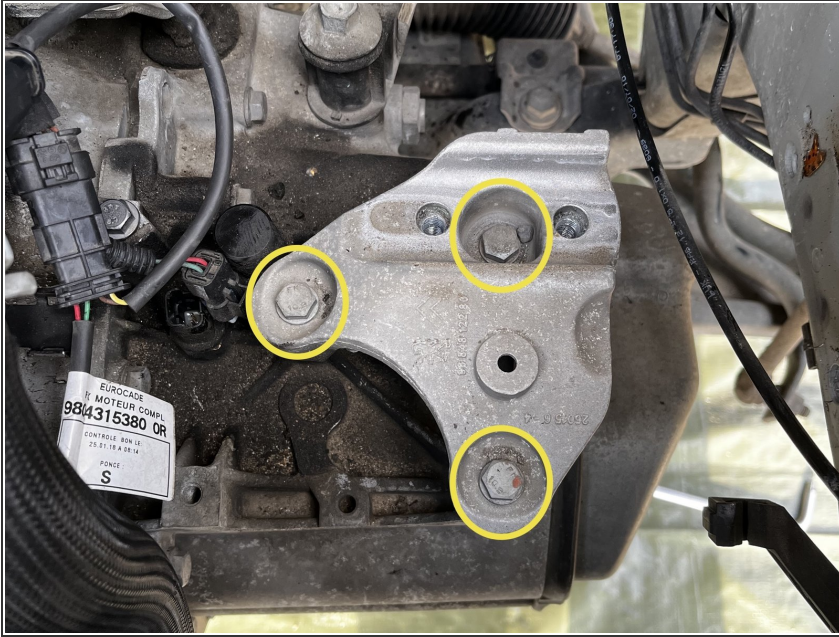
- Under the vehicle, using a jack and a wooden block, support yourself under the oil pan.
- At the engine compartment level, unscrew and remove the 2 screws from the engine support on the gearbox using a 16 wrench.

Step 11



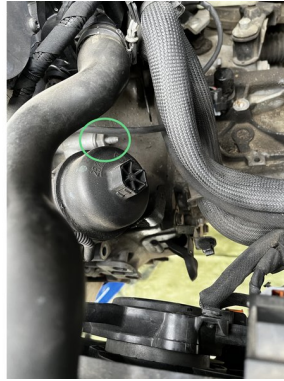
- Unscrew and remove the 4 screws from the engine support on the body using a 16 wrench.
- Remove the engine mount.

Step 12



- Unscrew and remove the 3 screws securing the support to the gearbox using the 13 mm wrench.
- Remove the support.

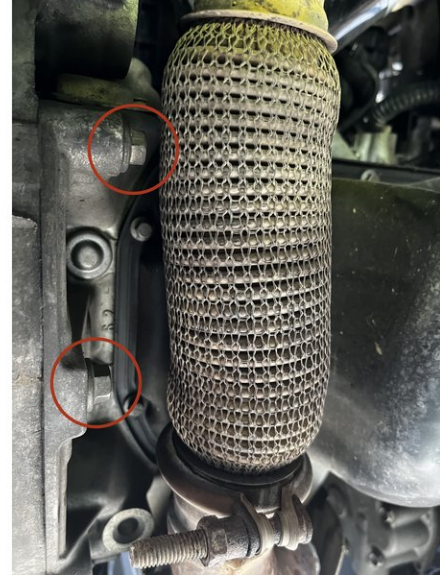
Step 13



⚠ The gearbox removal operation now begins

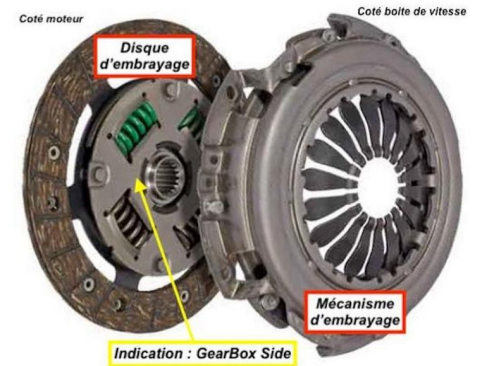
- Unscrew and remove the gearbox fixing screw at the front of the engine compartment using a 13 wrench.
- Unscrew and remove the gearbox mounting nut at the front of the engine compartment using a 16 mm wrench.
- Unscrew and remove the gearbox fixing screw at the engine compartment using a 16 wrench.
- Unscrew and remove the gearbox fixing nut at the engine compartment using a 16 wrench. It is located near the starter screw previously removed.

Step 14



- Under the vehicle:
- Unscrew and remove the gearbox fixing screw located below the starter using a 13 wrench.
- Unscrew the 2 box fixing screws located near the exhaust pipe using a 13 wrench.
- ⚠ Do not unscrew these last two screws completely; they must not come into contact with the exhaust pipe to avoid damaging it.
- ℹ To remove the gearbox, you need 2 people. -One supporting the gearbox and pulling it out. -The other finishes unscrewing the 2 screws mentioned above.
- Place the gearbox on the ground and remove it from under the vehicle.

Step 15



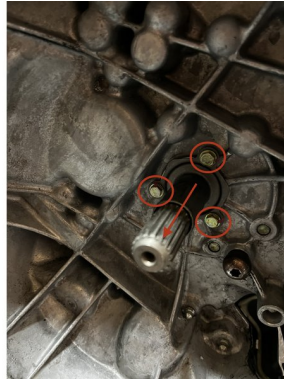
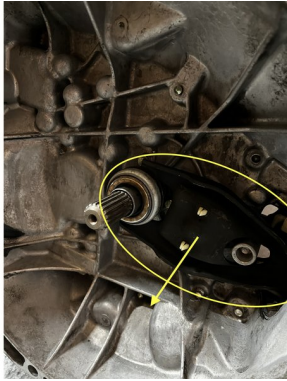
- ① We now visualize the clutch mechanism fixed on the flywheel.
- Unscrew and remove the 6 clutch mechanism fixing screws using a bit or an Allen key. Remove the clutch mechanism and its disc.
- Prepare the new clutch mechanism: Place the clutch disc under the mechanism and center it using the clutch centering tool.
- ⚠ Make sure the clutch disc is fitted in the correct direction. The side marked GearBox side must be located on the box side

Step 16



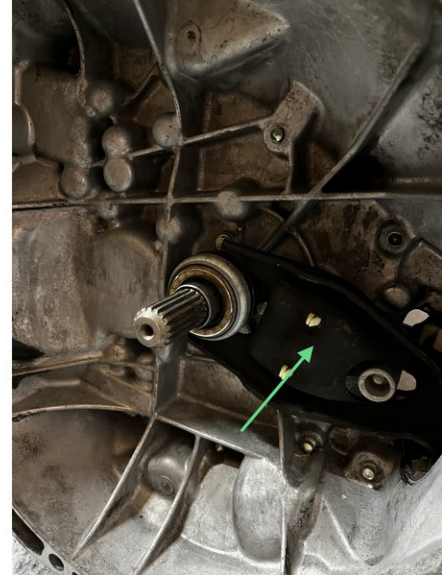
- Place the new clutch disc on the flywheel using the 6 clutch mechanism fixing screws using a bit or an Allen key. Tighten to a torque of 20N.m
- Remove the clutch disc centering tool.

Step 17



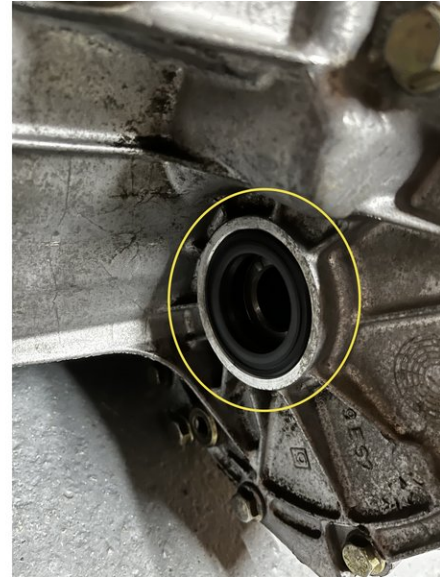
- Gearbox side:
- Check that the clutch fork is not loose at its attachment point, otherwise replace it.
- Remove the clutch fork by pulling it towards you.
- Unscrew and remove the 3 fixing screws of the guide sleeve using a 8 wrench. Remove the guide sleeve by pulling towards you. Replace the guide sleeve. Refit the 3 fixing screws and tighten to a torque of 10N.m
- Grease the clutch fork bearings

Step 18



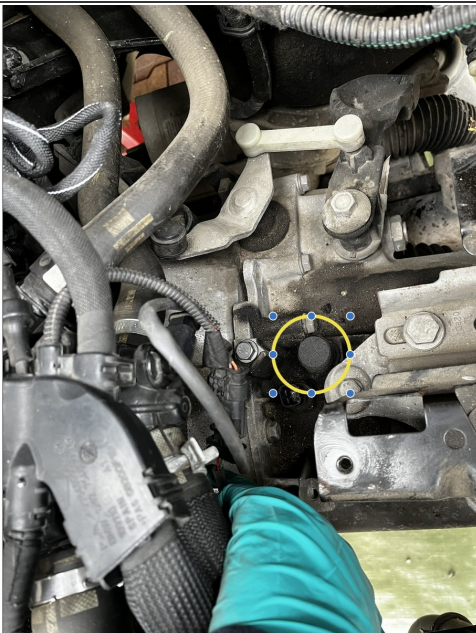
- Insert the new clutch release bearing into its housing on the fork.
- ⚠ Make sure that the clutch release bearing lugs are properly seated in the fork.
- Place the clutch fork with the stop back on the gearbox and press it firmly to lock it onto its support.

Step 19



- Replace the transmission oil seals on both sides of the gearbox. Extract the old seals with a screwdriver then insert the new ones with a plastic mallet.

Step 20



- Proceed to refit the gearbox and various components in the reverse order of removal from step 14 to step 8 inclusive.
- After step 8, carry out step 5 (Replacing the universal joints and fixing the suspension arms).
- Proceed to fill the gearbox, to do this remove the air vent plug and insert a funnel. Fill with 2 liters of 75w80 oil. Then replace the cap.

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- Repeat steps 7 to 1 to complete the reassembly.
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