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MERCEDES C Class (203) (2000>)

E Class (211) (2002 > 2006)

Pour/For

CLK (209) (2002>)

Sprinter (95>)

KIT 2 PIECES - KIT 2 PIECES 2-KOMPONENTEN-KIT

KIT 2 PIEZAS - KIT 2 PEZZI



After disassembling the gearbox from the engine :

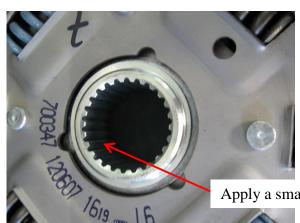
C

Valeo Service - 15, rue des Rosier 93582 Saint Ouen - France SAS au capital de 17.623.995€

CS Bobigny 306486408

MADE IN SPAIN

- 1- Check engine crank shaft seal : Verify that there is not oil contaminating the flywheel . In case of presence of oil leack, remove the flywheel and change the crankshaft seal and reassemble the flvwheel.
- 2- Check gearbox imput shaft splines checking that there is not damaged or show excessive wear along the spline length.
- 3- Check Flywheel Fixing Bolts.
- 4- Check Flywheel Friction surface .If there are cracks and/or excessive wear of the friction surface, or blue color due to heating, change the flywheel.
- 5- Check the gear box input shaft seal : Verify that there is not oil comming from the gear box. In case of presence of oil repair the gear box changing the input shaft seal.
- 6- Check the hydraulic bearing:
 - a. Check that the bearing is well rotating under axial hand load: smooth rotation without hard points
 - b. check the wear on the bearing contact ring with the diaphragm . the marks of contact have to be not excessive (less than 0,5mm)
 - c. check that there is not oil comming from the interior of the hydraulic bearing
- 7- check that the spring for preload is not broken and given a correct preload (50 N as minimum at working position). If necessary replace the hydraulic bearing.



Apply a small quantity of grease



- 1. Prepare the clutch and verify that the kit part number matches with the part number indicated in the catalog. 2. Check that the driven plate is well sliding and fitting over the input shaft.
- Apply a small quantity of grease in the hub splines . Be carefull for don't apply excessive amount of grease. 3. Position the driven plate in the flywheel thanks to the appropriate centering tool (see the photo).
- 4. Position the cover assy centering it with the 3 pins and hand thightening 3 bolts at 120° and checking that the driven plate keep well centered position. Then hand thightening the remaining 3 bolts. Recommanded screws are M8x15mm with a "torg" head.

CLUTCH FITTING TECHNICAL NOTE







After the assembly

Check that the clutch is well working:

- each gear box ratio (including reverse)
- 7. neutral up to 4000 rpm.
- 8. Check that there is not abnormal clutch sliding in driving conditions.



Fixing the clutch :

- 4. Tightenning each bolt with progressive torque following a star sequence: a screw every 120°, avoiding to apply torque each excessive on one. The diaphragm fingers have to move as uniform as possible
 - Repeat the complete start sequence approximately 3 times.
- 5. Complete the Fixing applying a torque of 25Nm allways following the start sequence.

Re-assemble the gearbox

- 1. Check that the dowell pins are existing and that they are not damaged.
- 2. Position the gearbox coaxially with the engine crankshaft, supporting the gearbox weight with the appropriate tools.
- 3. Introduce the gearbox input shaft into the driven plate hub spline.
- 4. Take care that the input shaft be introduced without shock. If necessary rotate the crankshaft to make easier the input shaft fitting.

Avoid that the weight of the gearbox be supported by the driven plate of the clutch during the assembly.

- 5. Check that the gearbox is in full contact with the engine block and that the centering pins are well fitted
- 6. Fixe the gearbox to the engine block tightening the all the bolts with the appropriate torque

