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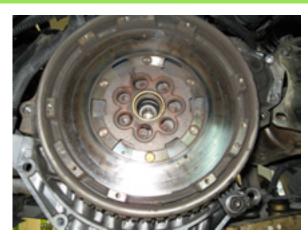


93582 Saint Oven - France SAS au capital de 17.623.995 € RCS Bobigny 306486408



# CLUTCH FITTING TECHNICAL NOTE





RENAULT Espace IV (2002>) Legues II (2001>)





## Prepare the clutch for assembly:

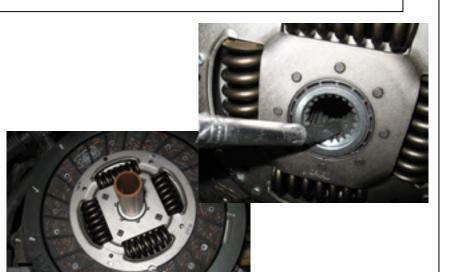
- 1- Apply a small quantity of grease in the hub splines at approximatly 5 mm of the hub extremity
- 2- Apply a small quantity of grease in the release bearing (internal diameter and contact area with the fork) and in the fulcrum fork.



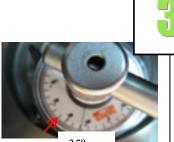
#### After disassembling the gearbox from the engine :

- 1- Check engine crankshaft seal : Verify that there is not oil contaminating the flywheel. In case of presence of oil leack, after remove the flywheel, change the crankshaft seal.
- 2- Check gearbox imput shaft splines checking that there is not damaged or show excessive wear along the spline length.
- 3- Block the flywheel in rotation and remove the flywheel fixing
- 4- 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.
- 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

6 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.







# Fasten the flywheel and the clutch:

Position carfully the new flywheel Valeo on the crankshaft center and tightenning the bolts (M9x1 hexagonal head) with a progessive torque following a star sequence. Avoiding to apply excessive torque on this one. Tigtenning torque: 65 Nm + apply a torque angle of 35° over each





# Fasten the clutch and release bearing:

- 1- Position the driven plate in the flywheel thanks to the centering tool (see the photo)
- 2- Fasten the cover assy centering it with the pins and hand thightening 3 screws at 120° and checking that the driven plate remains stable and well centered with the centering tool.
- Tighten smoothly each screw respecting a starlike sequence as for the thightening of the flywheel. The diaphragm fingers have to move as uniform as possible. Repeat the complete sequence approximately 3 times. Use screws M8x1,25x15,5 with a internal hexagonal (Allen)
- 4- Complete the fastening applying a torque of 25Nm thanks to a torque wrench respecting the previous sequence.
- 5- Assembly the release bearing on the guide tube and check that the sliding is correct.



# After the assembly

Verify that the clutch is well working:

- disengage and reengage the clutch shifting each gear ratio (including reverse)
- check that there is not abnormal noise when engaging and disengaging operation
- in neutral speed up to 4000 rpm and check that there's not abnormal vibration or noises.
- check there is not abnormal clutch sliding in driving conditions.



## Re-assemble the gearbox

- 1. Check that the block 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. Finally fasten the gearbox to the engine block tightening the screws with the appropriate torque.