



LuK Service Info

Concentric pneumatic clutch actuators CPCA

Initialisation after assembly

Vehicle

manufacturer: Renault
Volvo

Models:

Renault: C, D, T, K -series
Premium 2
Kerax

Volvo:

FE, FE II, FH, FH16 II, FM, FMX II,
B 11, B 12, 9500, 9700, 9900

Part numbers:

510 0168 10
643 3416 33
643 3424 33
643 3456 33
643 3460 33
643 3455 33



Bild 1: Pneumatischer Zentralausrücker CPCA

Concentric pneumatic clutch actuators (CPCAs) are used exclusively in commercial vehicles with auto-shift gearboxes. In contrast to concentric hydraulic clutch actuators, these are not actuated by a fluid, but pneumatically (with compressed air). The advantages of this system are savings in terms of mounting space and weight, plus a significant reduction in part variety.

After installing a concentric pneumatic clutch actuator, it must be recalibrated using a suitable diagnostic device (e.g. Texa). Without calibration, the clutch will grab when starting off and the vehicle will be difficult to manoeuvre under load. In addition, various error messages will be displayed on the vehicle information display.

If it is not possible to calibrate the concentric clutch actuator, this could be due to any of the following reasons:

- There is an insufficient compressed air supply available on the vehicle (securing pressure of at least 6 bar required).
- The air pressure in the release system is too low due to the air filter being clogged (the air filters for coarse and fine dust are usually located directly on the gearbox housing).

Please observe the vehicle manufacturer specifications!

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