



LuK Service Info



Concentric Slave Cylinder for Hybrid Vehicles

Commissioning must only be carried out using a venting procedure that complies with the manufacturer's specifications

Manufacturer: Hyundai
KIA

Models: IONIQ
Kona

Ceed
Niro I+II
XCeed

Part no.: 510 0378 10
510 0380 10

See parts catalog for current assignment

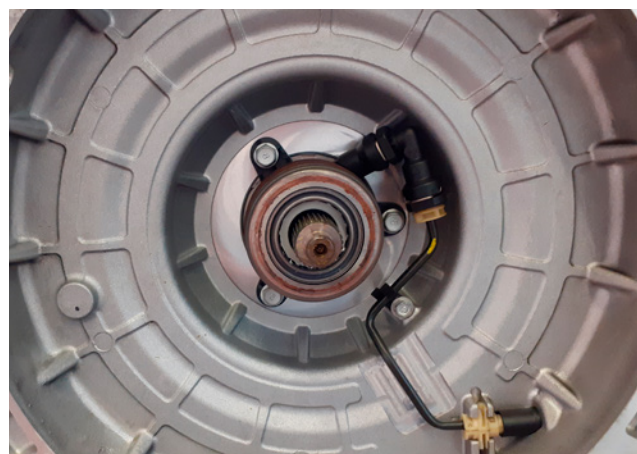


Figure 1: CSC for separating clutch

The vehicle models listed above are equipped with a plug-in hybrid system that can use both the combustion engine and the electric motor for the drive. In order to use the drive systems as effectively as possible, they must be able to be disconnected or decoupled from each other in certain driving conditions. This function is performed by the separating clutch, which is positioned in these vehicles between the combustion engine and the electric motor as well as the downstream double clutch transmission.

If the vehicle is driven exclusively by the combustion engine, the separating clutch is engaged. If, on the other hand, the drive is implemented exclusively via the electric motor, the combustion engine is separated from the drive train, meaning that the separating clutch is disengaged in this case. In boosting mode, the electric motor supports the combustion engine during acceleration. In this state, in which the separating clutch is engaged, both drive systems are used simultaneously.

The concentric slave cylinder (CSC) of the separating clutch operates in the same way as conventional CSC systems. In contrast to pedal-operated CSC systems, however, the hydraulic pressure is not generated manually by a clutch master cylinder, but by an electro-hydraulic clutch actuator. After repairs or replacement of the CSC, this system cannot be bled using a conventional bleeding device. The release system can be commissioned solely by means of a bleeding procedure that complies with the manufacturer's specifications, and using a suitable diagnostic device.

Note:

Before working on the disengagement clutch, it is essential to de-energize the high-voltage system in accordance with the instructions of the vehicle manufacturer. This measure may be carried out only by qualified specialists with appropriate training. If this safety precaution is not observed, there is a risk of fatal injury!

Please observe the vehicle manufacturer specifications!

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