

## Technical Bulletin

# Clutch Hydraulics

Vehicle Type

Passenger car

## Types of Clutch Actuation Systems

### CLUTCH HYDRAULIC SYSTEM - INTRODUCTION

Translate the driver input at the clutch pedal into hydraulic pressure that engages or disengages the PPCA.

**Clutch Master Cylinder (CMC)**- Reservoir with a cylinder and piston that houses the hydraulic fluid and is in contact with the clutch pedal assembly.

**Clutch Release Cylinder (CRC)**- Hydraulic cylinder and piston that is in contact with the clutch fork.

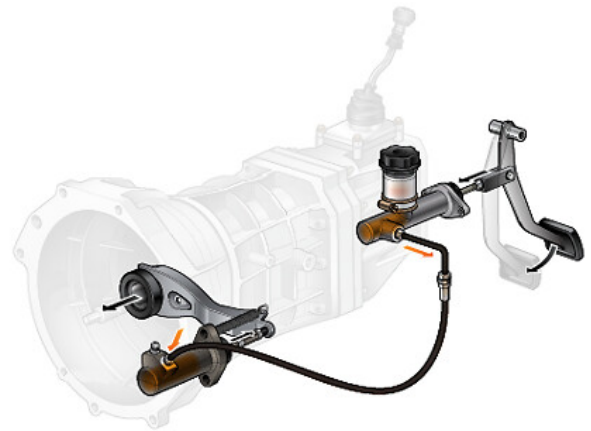
**Concentric Slave Cylinder (CSC)**- Hydraulic cylinder integrated with fork and CRB as one part

There are two types of Clutch Hydraulics system

1. •The semi-hydraulic system consist of a Clutch Master Cylinder and a Clutch Release Cylinder : CMC+CRC on a classic release bearing
2. •The full hydraulic system consist of a CMC and a Clutch Slave Cylinder with an integrated release bearing

The Semi Hydraulic System, its a mix of technology

The semi hydraulic system combine a classic clutch and fork but it is activated by an hydraulic device: the CRC and CMC.



In a Full Hydraulic system, the concentric slave cylinder with an integrated release bearing

It eliminates the lever and the conventional release bearing

