

# Tech Note 045

## Concentric Slave Cylinder (CSC) Installation

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To prevent premature failure of the CSC (Concentric Slave Cylinder), it is essential the technician follows the basic instructions detailed below while handling and installing the new CSC:

**Failure to comply with these instructions may result in damage to the cylinder and seals resulting in faulty operation.**

- Fluid contamination is the # 1 cause of cylinder failure! The entire hydraulic system must be flushed using fresh fluid (of the manufacturer's specification) prior to CSC installation. This is necessary to remove contaminant particles or sediment from within the system.
- Do not operate the cylinder by hand prior to installation as damage or dislodgment of internal seals may occur. Similarly, the inner flanged tube (commonly pressed into the cylinder body) can also be forced out of position rendering the cylinder unserviceable.
- The cylinder should be located over a clean first motion shaft and clean face of the transmission. Make sure any "O" rings are replaced and located with care.
- All mounting bolts should be finger tightened before gradually and evenly securing the cylinder to the vehicle manufacturers recommended torque specifications.
- It is recommended that the cylinder be bled as per the manufacturer's instruction.
- Slow & consistent depressions of the pedal should be applied during bleeding of the cylinder. Rapid or erratic pumping of the clutch pedal and pressure bleeding of the cylinder should be avoided.

