



TECH TIPS

CONCENTRIC SLAVE CYLINDERS

To prevent a Concentric Slave Cylinder (CSC) from failing or being damaged it is important that you follow these simple guidelines whilst handling and/or fitting the CSC to the vehicle.

HANDLING

- **NEVER** depress the slave cylinder by hand prior to fitting! (image 1)
 - This may result in the seals being dislodged (image 2) or torn and cause the CSC to leak once installed, and potentially contaminate the clutch disc with fluid.
- **BE CAREFUL** when tightening plastic CSC tubes!
 - Too much force can cause plastic CSC tubes to break.

CLEANING

- **DO NOT** spray brake cleaner or solvents in or around the CSC! (image 3)
 - This can cause the seals to swell and wash away the assembly oil.

MOUNTING

- When mounting a CSC care must be taken that it seats correctly on the gearbox and is not mounted off axis.
- All mounting surfaces must be clean and free of dirt and contaminants.
- Correct bolt torque must be used to prevent damage to the CSC.
 - Failure to follow the correct mounting procedures can lead to CSC damage (image 4), leaking and a staging pedal.



1.



2.



3.



4.

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COMMON CSC FITMENT PROBLEMS

OVER STROKING

- If a piston is over stroked, it can cause damage to the end of the guide tube or even to the piston seals. (image 5)
- Over stroking can be caused by several things such as:
 - Incorrect pedal adjustment.
 - Incorrect clutch fitment causing a low installed height.



5. Damaged Seal

INCORRECT CLUTCH DISC FITMENT

- If a clutch disc is fitted incorrectly (back to front), it can cause damage to the end of the guide tube and is likely to cause a release problem and permanently damage the slave and/or the disc (image 6).

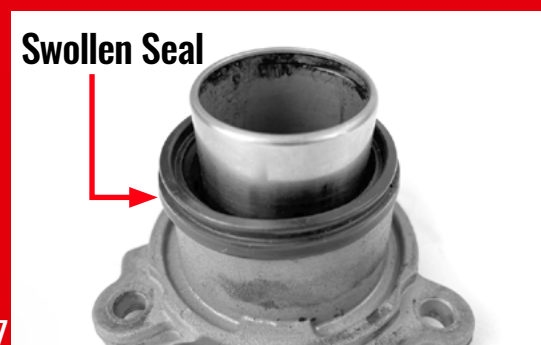


6.

Damaged Guide Tube

CONTAMINATION

- When installing a new CSC the fluid system should be flushed in order to remove any dirt and contaminants.
- Failure to do so can potentially damage the seals and cause the CSC to leak or fail, voiding any warranty.
- Contaminated fluid can cause swelling of the rubber seals. (image 7)



7.

Swollen Seal

SCAN THE QR TO VIEW THE INSTRUCTION VIDEO >



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