



Your Undercarriage Specialist

## SERVICE BULLETIN

Subject: Installation of Concentric Slave Cylinder (CSC)

Issue Date: NOVEMBER 2016

Specific Vehicle: Opel, Vauxhall

Specific Model: Astra-H, Combo,  
Corsa-C, Corsa-D  
Meriva, Tigra TwinTop

OEM Part No: 56 79 331  
56 79 335

CPD Part No: OPE203C / CS1115C



**The assembly clip as indicated in the above figure can be removed only after the CSC is installed onto the gearbox.**

If the assembly clip is removed before fitting to the gear box, the back plate of CSC may become loose and detached from its retaining catch. As a result, it will not be sealed.

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## 1. **MANDATORY** Bleeding Procedure

**A brake bleeding device should not be connected and switched on** during manual bleeding. If the clutch pedal is actuated with a brake bleeding device connected, the concentric slave cylinder can be "over-pressurized". An "over-pressurized" concentric slave cylinder is no longer able to function and must be replaced!

**Manual bleeding should be carried out using the following process:**

- a) **DO NOT COMPRESS THE CSC BY HAND** to replicate bearing movement before installation as the increased air pressure can cause the back plate to move out of position and as the chamber is not filled with hydraulic fluid damage can also be caused to the internal seals
- b) **DO NOT DEPRESS THE PEDAL SEVERAL TIMES IN SUCCESSION** when bleeding; this can cause the cylinder to overstroke and damage the end cap; depress just once and wait for hydraulic system to stabilize (risk of over pressure inside CSC)
- c) Depress clutch pedal;
- d) Open bleed valve;
- e) Keep clutch pedal depressed until fluid appears – Do not release!
- f) Close bleed valve;
- g) Release clutch pedal slowly;



**Do not depress the clutch pedal several times in quick successions during bleeding; Depress slowly once at a time**

The clutch bleeding cycle must be repeated **20 to 25 times (recommended) to guarantee complete bleeding**. Top up the level of the fluid in the reservoir between the cycles. The level of the fluid must not drop below the minimum mark on the reservoir during bleeding!

Problems with bleeding mainly occur in concentric slave cylinders with bleed valves in the hydraulic line. **It is recommended only bleeding these systems manually.**



- ✓ **Always use DOT3 or DOT4 brake fluid. Do not use mineral oil as recommended by vehicle service manual**
- ✓ **Perform manual bleeding for CSC.**

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### 2. Brake Fluid / Clutch System/ CSC cleanliness

Contamination may cause sporadic leaks when dirt articles accumulate under the sealing lip and may also cause permanent leaks when the lip seal swells



- ✓ Exclusively use brake fluid with at least DOT 3. When open, do not store the fluid longer than one year.
- ✓ Change the fluid at planned interval (Refer to car owners' manual)
- ✓ Drain the old fluid and rinse the line system with sufficiently new fluid.
- ✓ Remove the compensating reservoir and clean it carefully.
- ✓ The entire CSC system must be free from oil and grease. Otherwise the lip seals could swell.
- ✓ Avoid grease on hands and oil on cleaning rags.
- ✓ Avoid silicone in assembly.
- ✓ Make sure to remedy any leaks on engine and gearbox. Make sure that the gear bell housing is sufficiently sealed.
- ✓ In order to avoid contamination during repair work, always close hydraulic and pipe connectors properly,

For further enquires, contact 041 4871471

**Note 1: Whilst every precaution has been taken to ensure the accuracy of the information given on these tables, CAPE PARTS DISTRIBUTORS CC disclaim all liability for the consequences for any information which may be shown incorrect.**