



## Technical Service Bulletin

### GM Concentric Slave Cylinder Bleed Procedure

To assist with bleeding these problematic slaves, the steps outlined below detail the proper procedure to correctly bleed the system while the transmission is off the vehicle\*\*\*:

1. Verify that the clutch master cylinder has a full fluid fill. If not, add additional fluid until full.
2. Insure that the clutch master cylinder is mounted level on the firewall. Some vehicles may require the master cylinder to be unbolted, leveled and re-mounted to the firewall.
3. Install the concentric slave cylinder on the transmission.  
Note: Some slave cylinders have the input shaft seal built in. (Fig. 1)  
**This seal MUST be lubricated! Failure to lubricate will result in seal damage and leakage.**
4. Lift the transmission up into the vehicle but do not mount the transmission to the engine. With the transmission lifted, reach up and connect the hydraulic line to the slave cylinder.
5. Once the slave and hydraulic line are connected, reach into the bell housing and push the slave cylinder back in its bore (Fig. 2), then release and let it return to its original position. (Fig. 3)

Repeat this process 12–15 times.

Following this procedure will force any air trapped in the hydraulic line back up through the master cylinder, through its vent cap and out of the system.

Bleed complete.



**Fig. 1**



**Fig. 2**



**Fig. 3**

***\*This procedure will work on ANY concentric slave cylinder application. It is the ONLY way to bleed many newer applications that do not have bleeder valves***