

Application: 2009 - 2014 GM Vehicles

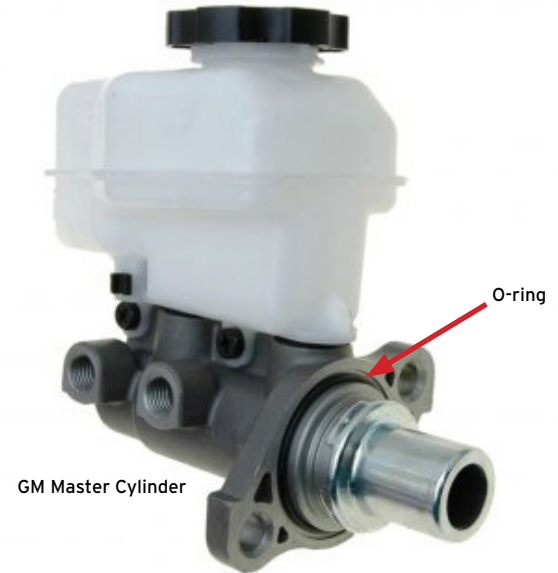
*2009-2014 Buick Enclave, 2010-2012 LaCrosse, 2011-2014 Regal, 2012-2014 Verano 2013-2014 Encore *2009-2014 Cadillac CTS, 2013-2014 ATS (No cross over), 2013-2014 XTS *2009-2012 Chevy Colorado, 2009-2014 Corvette, 2009- 2014 Impala, Malibu and Traverse, 2010-2014 Camaro, Equinox 2011-2014 Cruze, 2012 Captiva Sport, 2012-2014 Sonic, and 2013-2014 Spark (No cross over)
*2009-2012 GMC Canyon, 2009-2014 Acadia, 2010-2014 Terrain)

▶ **Symptoms:**
Master Cylinder - Leaking fluid (soft or no brake pedal).
Power Booster/Master Cylinder Connection - You may hear a hissing noise.

▶ **Causes:**

- Internal leak (Failed Seals)
- O-ring between the Master Cylinder and the Power Booster
- Air in the braking system

▶ **The Solution:**
Remove and Replace the Master Cylinder if necessary. Make sure the Power Booster is working at full potential and check the O-ring and brake system (hoses/fittings for any signs of wear), replace as necessary. When you are done checking the system, bleed the system to get all the air or moisture out.



If you notice a difference in the resistance of the brake pedal it's a sign you need immediate service.

Some owners of select GM vehicles may comment on a low brake pedal during braking. This may be caused by a master cylinder and or the brake booster, there is an O-ring between the master cylinder and the brake booster along with the internal seals of the master cylinder that may have deteriorated because of age or contamination. Inspect for the O-ring before performing any other diagnostics. Replace the O-ring if missing or damaged.

Tip: The booster vacuum may have to be purged by either pumping the brake pedal a few times or pulling the check-valve out prior to removing the master cylinder, at this point make sure when you dislodge the master cylinder from the power booster that you check for the O- ring being dislodged by the suction.

Tip: When installing a replacement master cylinder, make sure the O-ring is in the right place.

Leaking Fluid - If you're experiencing a soft brake pedal, have a technician look for:

- Fluid leaks around the master cylinder (usually an internal leak)
- Brake fluid bypassing internal seals
- Check connections to the master cylinder and the brake system

If you're a DIY individual, you can do the inspection of the master cylinder and surrounding brake area.

Spongy or no Brake Pedal - If you notice a difference in the resistance of the brake pedal (it feels softer or sinks all the way to the floor when you press on it), it's a sign you need immediate service. There could be air or moisture in the braking system, or a problem with the master cylinder.

Hissing Noise at the Master Cylinder/Booster - If you hear hissing or air escaping (vacuum leak) between the master cylinder and the booster, inspect the O-ring to see if it's missing or damaged in any way. If it is missing or damaged, replace it.

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