

# Differential Vent

by Tom Endy 2023

Some Model A owners have reported an oil leak from the differential section of the rear axle assembly after installing a Mitchell overdrive. The oil leak comes from around the banjo bolts. The Mitchell overdrive itself is vented by way of a vent valve supplied with the overdrive. It is believed that the installation of the overdrive removes the volume that was available in the original torque tube and allows pressure build up in the differential section. One Model A owner who experienced this installed a vent valve procured from Amazon.

**The vent valve was installed on the top of the left axle housing a few inches from the banjo flange. The owner coated the drill bit and tap with grease to minimize any metal chips falling into the axle housing. The photo at right shows the installation.**



**The vent is an Alemite 304810 air vent valve. 1" OAL 1/8" PTF. Overall length 1.0 inches, shank length 0.19 inches. Cost is about \$5.**

