From: gmclist-bounces@temp.gmcnet.org on behalf of Charles Aulgur
To: GMCnet
Subject: [GMCnet] JUST WONDERING
Date: Tuesday, October 06, 2009 4:24:31 PM

The material that I presented at the last combined GMCWS/GMCMI rally in Santa Rosa is on the GMCWS web site <GMCWS.org> filed under technical articles. It includes descriptions and photos of the system I first developed for my GMC and it also contains some video of my braking tests that show the action of the mid axles with and without the reaction bars installed. I am in the process of replacing my original system with the production version that Jim K. is having manufactured and is now listed for sale in his latest catalog. You can request a copy of it by calling 1.800.752.7502. The plan was for Jim and myself to have the production versions installed for the Pueblo rally where people could drive the coaches and experience the braking action with all four rear wheels using all the braking energy slowing the coach instead of wasting over half of it lifting the rear of the coach and overloading the mid axle tires and causing the rear axle tires to slide because the weight of the rear has been removed by the lifting action of the mid axles. The parts did not get manufactured in time for the rally.

The first production version was completed around the first of the year and was installed on the engineer's GMC that designed the production version from my original drawings. He used and abused his

GMC to do brake testing over a two day period where various stopping test were done with and without the torque reaction bars installed. The testing also included various size brake calipers and different types of brake pads. I don't have test data but I believe the average stopping distance was around 40% less with the reaction bars installed. And yes, we proved we could slide all six wheels on a GMC but that is not what you want. We concluded the best combination was to use the stock GMC 70 mm front calipers on all four rear wheels. Using the 80 mm calipers with the "yellow" brake pads on the rear is to much brakes without ABS.

Chuck Aulgur
La Mesa, CA
76 Royale with great brakes