



## PRELIMINARY INFORMATION

**Subject:** Rear Axle Chatter Type Noise on Low Speed Turns

**Models:** 2010-2011 Chevrolet Camaro  
Equipped with Limited-Slip Differential (RPO G80)

**This PI is being revised to add the 2011 model year. Please discard PI0137.**

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

### Condition/Concern

Some customers may comment on a chatter-type noise from the rear of the vehicle while making low speed turns. This condition may be caused by a slip/stick of the posi-traction clutch plates. As the plates slip and stick, a jumping or jerking feel occurs, accompanied by a chatter noise.

### Recommendation/Instructions

**Important:** Prior to adding the limited-slip axle additive, the bottle **MUST** be shaken vigorously for at least one minute to mix the additive thoroughly, then immediately poured into the differential.

Drain and refill the rear differential with new fluid, GM P/N 89021677 (in Canada, use P/N 89021678) and additive, GM P/N 1052358 (in Canada, use P/N 992694). Refer to the Differential Oil Replacement procedure in SI.

Once the differential fluid has been changed, the vehicle must be driven in eight tight figure eight maneuvers to heat the fluid and allow the additive to be worked into the clutch plates.

### Lubrication Specifications

Application	Quantity	English
	Metric	
Synthetic Differential Lubricant	0.925 L	0.975 qt
Limited Slip Differential Lubricant Additive	0.075 L	2.6 oz

**Parts Information**

Part Number	Description	Qty
89021677 (US -1 qt) 89021678 (Canada -1 L)	Synthetic Differential Lubricant GL-5 75W90	1
1052358 (US - 4 oz) 992694 (Canada - 0.118 L)	Limited Slip Differential Lubricant Additive	1

**Warranty Information**

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
F9709*	Drain & Refill Rear Axle Fluid	0.4 hr
* This is a unique labor operation for PI use only. It will not be published in the Labor Time Guide.	—	—