

# Service Bulletin

Date: November, 2018

# TECHNICAL

## Subject: Rear Axle Grinding, Howling, Whining Type Noise and/or Vibration Coming From Rear of Vehicle While in All Wheel Drive (AWD) Mode Under Various Driving Conditions

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	Enclave	2019	2019	June 21, 2018	June 22, 2018		
Cadillac	XT5			June 19, 2018	July 16, 2018		
Chevrolet	Traverse			June 20, 2018	July 17, 2018		
GMC	Acadia			June 28, 2018	July 13, 2018		

Involved Region or Country	North America and N.A. Export Regions		
Condition	Some customers may comment on one or more of the following concerns while in AWD: <ul> <li>Grinding noise</li> <li>Howling noise</li> <li>Whining noise</li> <li>Vibration felt</li> </ul>		
Cause	<ul> <li>This condition may be caused by oil leaking past the oil seal and filling the torque tube.</li> <li>⇒ Some rear differential pinions may have a mis-machined chamfer. During differential assembly, the pinion seal may roll and not seat properly to the pinion shaft. When this occurs, oil may leak into the torque tube causing a lack of lubrication for the differential.</li> </ul>		
Correction	<ol> <li>Inspect vehicle build date:         <ul> <li>If build date is within the dates noted above, proceed to step 2.</li> <li>If not, bulletin does not apply, follow normal SI diagnostics.</li> </ul> </li> <li>Check fluid level:         <ul> <li>if fluid level is low but no apparent external leaks, proceed to step 3.</li> <li>If fluid level is full, follow normal SI Diagnostics.</li> </ul> </li> <li>Remove torque tube and inspect for pinion seal oil leak:         <ul> <li>If present go to step 4</li> <li>If no leaks are found, continue with normal SI diagnostics.</li> </ul> </li> <li>Replace rear axle differential carrier.</li> </ol>		

#### **Service Procedure**

Refer to Differential Carrier Assembly Replacement in SI.

### **Parts Information**

Causal Part	Description	Vehicle	Part Number	Qty
x	CARRIER, DIFF (EXC G99)	Acadia	84462314	1
X	CARRIER, DIFF (W/ G99)	Acadia/XT5	84462315	1
X	CARRIER, DIFF (EXC G99)	Enclave/Traverse	84462316	1
X	CARRIER, DIFF (W/ G99)	Enclave/Traverse	84462317	1

### **Warranty Information**

For vehicles repaired under warranty, use:

Labor Operation	Description	Labor Time
3031160	Differential Carrier Assembly Replacement	Use the Published Labor Operations Time

Version	1
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GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, <u>DO NOT</u> assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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