

## DRIVE AXLE TROUBLE SHOOTING

CONDITION & POSSIBLE CAUSE	CONDITION & POSSIBLE CAUSE
<p><b>Wheel Noise</b></p> <ul style="list-style-type: none"> <li>• Wheel Loose</li> <li>• Faulty or Worn Wheel Bearings</li> </ul> <p><b>Axle Shaft Noise</b></p> <ul style="list-style-type: none"> <li>• Misaligned Axle Housing</li> <li>• Bent or Sprung Axle</li> <li>• Pinion Bearing End Play</li> <li>• Excessive Ring Gear Backlash</li> <li>• Incorrect Pinion Bearing Adjustment</li> <li>• Loose Companion Flange Nut</li> <li>• Incorrect Wheel Bearing Adjustment</li> <li>• Scuffed Tooth Contact Surfaces</li> </ul> <p><b>Differential Case Breakage</b></p> <ul style="list-style-type: none"> <li>• Incorrect Differential Bearing Adjustment</li> <li>• Excessive Ring Gear Clearance</li> <li>• Vehicle Overload</li> <li>• Erratic Clutch Operation</li> </ul> <p><b>Broken Differential Side Gear</b></p> <ul style="list-style-type: none"> <li>• Excessive Housing Deflection</li> <li>• Worn Thrust Washers</li> <li>• Misaligned Axle Housing</li> </ul> <p><b>Differential Gears Scored</b></p> <ul style="list-style-type: none"> <li>• Insufficient Lubricant</li> <li>• Incorrect Lubricant</li> <li>• One Wheel Spins Excessively</li> </ul>	<p><b>Ring Gear &amp; Pinion Tooth Breakage</b></p> <ul style="list-style-type: none"> <li>• Vehicle Overloaded</li> <li>• Erratic Clutch Operation</li> <li>• Ice Spotted Pavement</li> <li>• Normal Fatigue</li> <li>• Incorrect Adjustment</li> </ul> <p><b>Axle Noise</b></p> <ul style="list-style-type: none"> <li>• Insufficient Lubricant</li> <li>• Incorrect Ring Gear &amp; Pinion Adjustment</li> <li>• Worn Ring Gear or Pinion Teeth</li> <li>• Loosen Pinion Bearings</li> <li>• Loose Differential Gear Bearings</li> <li>• Misaligned Ring Gear</li> <li>• Loose Carrier Bolts</li> </ul> <p><b>Loss of Lubricant</b></p> <ul style="list-style-type: none"> <li>• Lubricant Level too High</li> <li>• Worn Axle Shaft Seals</li> <li>• Cracked Housing</li> <li>• Worn Drive Pinion Seal</li> <li>• Scored or Worn Companion Flange</li> </ul> <p><b>Unit Overheats</b></p> <ul style="list-style-type: none"> <li>• Lubricant Level Too High</li> <li>• Incorrect Lubricant</li> <li>• Bearings Adjusted Too Tight</li> <li>• Insufficient Ring Gear to Pinion Clearance</li> </ul>