

# Drive Axles

## DRIVE AXLE TROUBLE SHOOTING

CONDITION & POSSIBLE CAUSE	CONDITION & POSSIBLE CAUSE
<p><b>Rear Wheel Noise</b></p> <ul style="list-style-type: none"> <li>● Wheel Loose</li> <li>● Faulty, 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>Rear Axle Breakage</b></p> <ul style="list-style-type: none"> <li>● Incorrect Wheel Bearing Adjustment</li> <li>● Misaligned Axle Housing</li> <li>● Vehicle Overloaded</li> <li>● Clutch Grabs</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 Overloaded</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 and 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>Rear Axle Noise</b></p> <ul style="list-style-type: none"> <li>● Insufficient Lubricant</li> <li>● Incorrect Ring Gear and Pinion Adjustment</li> <li>● Worn Ring Gear or Pinion Teeth</li> <li>● Loose 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 Low</li> <li>● Incorrect Lubricant</li> <li>● Bearings Adjusted Too Tight</li> <li>● Insufficient Ring Gear to Pinion Clearance</li> </ul>