

DIAGNOSIS AND TESTING (Continued)

STEERING COLUMN DIAGNOSIS (Continued)

CONDITION	POSSIBLE SOURCE	ACTION
<ul style="list-style-type: none"> <li>● Rubbing Noise</li> </ul>	<ul style="list-style-type: none"> <li>● Intermediate Shaft Area</li> <li>● Boot mispositioned on intermediate shaft.</li> <li>● U-joint bearings damaged or contaminated.</li> <li>● Lower Column Area</li> <li>● Damaged, fractured bearing or retainer.</li> <li>● Upper Column Area</li> <li>● Wheel rubbing on shroud.</li> <li>● Damaged upper bearing sleeve, lock housing or retainer.</li> <li>● Damaged bearing.</li> </ul>	<ul style="list-style-type: none"> <li>● Install properly.</li> <li>● Replace intermediate shaft.</li> <li>● Replace bearing and retainer.</li> <li>● Install shroud to proper location.</li> <li>● Remove shroud and check for proper installation of lock housing, upper bearing and upper bearing snap ring. Install as required.</li> <li>● Replace bearing.</li> <li>● Replace shaft, lock housing or outer tube.</li> </ul>
<ul style="list-style-type: none"> <li>● Clunk During Acceleration or Deceleration</li> </ul>	<ul style="list-style-type: none"> <li>● Loose intermediate shaft to gear.</li> </ul>	<ul style="list-style-type: none"> <li>● Tighten retaining bolts.</li> </ul>
<ul style="list-style-type: none"> <li>● Rattles, Loose Steering</li> </ul>	<ul style="list-style-type: none"> <li>● Intermediate Shaft Area</li> <li>● Intermediate shaft to gear attachment not tight.</li> <li>● Improper boot assembly.</li> <li>● Interference fit between plastic collar and intermediate shaft.</li> <li>● Excessive universal joint lash.</li> <li>● Power steering isolator rubber bond separation.</li> <li>● Lower Column Area</li> <li>● Loose intermediate shaft to column or column to support attachment.</li> <li>● Upper Column Area</li> <li>● Improper shroud assembly.</li> <li>● Column to support bracket loose.</li> <li>● Loose shaft to upper bearing.</li> <li>● Lock housing assembly.</li> </ul>	<ul style="list-style-type: none"> <li>● Tighten attachments.</li> <li>● Install and tighten screws.</li> <li>● Install to proper location. Replace if necessary.</li> <li>● Replace intermediate shaft.</li> <li>● Replace intermediate shaft.</li> <li>● Tighten attachments.</li> <li>● Install and tighten shroud.</li> <li>● Tighten attachment.</li> <li>● Check that snap ring is engaged to shaft properly. Replace bearing or shaft.</li> <li>● Replace parts as required.</li> </ul>
<ul style="list-style-type: none"> <li>● Binding/Heavy Effort/ No Returnability/ Column Grounded/ Sticks/Binds/ Grabs</li> </ul>	<ul style="list-style-type: none"> <li>● Improper installation of dash boot.</li> <li>● Improperly assembled universal joint.</li> <li>● Upper column.</li> <li>● Restrictor assembly on sensor ring not removed (during assembly).</li> </ul>	<ul style="list-style-type: none"> <li>● Reposition boot.</li> <li>● Replace intermediate shaft.</li> <li>● Remove column and check column for binding while disconnected from intermediate shaft. If it binds:                         <ul style="list-style-type: none"> <li>A. Remove column shaft and check it for straightness — replace shaft.</li> <li>B. Check upper and lower bearing for ease of rotation—replace.</li> <li>C. Check for contact of shaft to other components—replace parts required.</li> </ul> </li> <li>● Replace sensor ring and bearing wedge. <b>DO NOT</b> install restrictor.</li> </ul>

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