



## Service and repair tips: Ribbed V-belts

Damage pattern	Cause	Solution	
<p>Uneven rib profile wear</p>	<ul style="list-style-type: none"> <li>■ Misalignment or roller bearing damage</li> <li>■ Severe belt vibration</li> </ul>	<ul style="list-style-type: none"> <li>■ Replace belt, tensioner and idler, and if necessary, water pump</li> <li>■ Ensure proper fitting and set correct tension</li> </ul>	↻
<p>Cracking/rupturing of base material</p>	<ul style="list-style-type: none"> <li>■ Temperature too high due to insufficient tension or defective bearing</li> <li>■ Belt worn</li> <li>■ Foreign particles influence</li> </ul>	<ul style="list-style-type: none"> <li>■ Ensure proper fitting and set correct tension</li> <li>■ Replace belt</li> <li>■ Eliminate foreign particles, check cover and install correctly</li> </ul>	↻
<p>Cracking of belt after short usage</p>	<ul style="list-style-type: none"> <li>■ Excessive tension</li> <li>■ Belt kinked prior to or during fitting</li> <li>■ Drive components or rollers stiff or blocked</li> </ul>	<ul style="list-style-type: none"> <li>■ Ensure proper fitting and set correct tension</li> <li>■ Ensure proper belt handling</li> <li>■ Replace belt, tensioner and idler, and if necessary, water pump</li> </ul>	↻
<p>Contamination</p>	<ul style="list-style-type: none"> <li>■ Influence of operating fluids, for instance oil, anti-freeze or brake fluid</li> </ul>	<ul style="list-style-type: none"> <li>■ Eliminate cause, for instance leakage at engine</li> <li>■ Replace belt</li> </ul>	↻
<p>Damage to belt backing</p>	<ul style="list-style-type: none"> <li>■ Surface of the tensioning or idler pulley damaged</li> <li>■ Foreign particles influence</li> <li>■ Belt ageing</li> </ul>	<ul style="list-style-type: none"> <li>■ Replace belt, tensioner and idler, and if necessary, water pump</li> <li>■ Eliminate foreign particles, check cover and install correctly</li> <li>■ Replace belt</li> </ul>	↻
<p>Abnormal rib profile wear</p>	<ul style="list-style-type: none"> <li>■ Insufficient tension</li> <li>■ Influence from foreign particles or operating fluids</li> <li>■ Misalignment</li> <li>■ Belt pulley defective</li> </ul>	<ul style="list-style-type: none"> <li>■ Ensure proper fitting and set correct tension</li> <li>■ Identify and eliminate cause</li> <li>■ Check axial position and axial parallelism of drive and bearing clearance of rollers and replace if necessary</li> <li>■ Check belt pulleys and replace if necessary</li> </ul>	↻
<p>Noise</p>	<ul style="list-style-type: none"> <li>■ Insufficient or excessive tension</li> <li>■ Drive overloaded</li> <li>■ Misalignment</li> <li>■ Influence from operating fluids</li> </ul>	<ul style="list-style-type: none"> <li>■ Ensure proper fitting and set correct tension</li> <li>■ Check rollers, drive components and their bearing clearance and replace if necessary</li> <li>■ Check axial position and axial parallelism of drive and bearing clearance of rollers and replace if necessary</li> <li>■ Identify and eliminate cause</li> </ul>	↻