




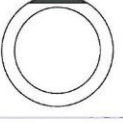


## Types of Abnormal Wear

### Abnormal wear by mis-alignment

Term	Shape	Causes
One side wear		<ul style="list-style-type: none"> <li>• Toe angle</li> <li>• Camber angle</li> </ul>
Shoulder wear		<ul style="list-style-type: none"> <li>• Mainly, camber angle</li> </ul>
Feather edge wear		<ul style="list-style-type: none"> <li>• Mainly, toe angle</li> </ul>
Polygonal wear		<ul style="list-style-type: none"> <li>• Run out of tire or bent wheel</li> <li>• Eccentric hub or bent spindle</li> <li>• Loose between bearing and kingpin</li> <li>• Unbalance on rotating part</li> </ul>
Eccentric wear		<ul style="list-style-type: none"> <li>• Run out of tire or bent wheel</li> <li>• Eccentric hub or bent spindle</li> <li>• Loose between bearing and kingpin</li> <li>• Unbalance on rotating part</li> </ul>
Spot wear		<ul style="list-style-type: none"> <li>• Bent brake-drum (Excessive brake on one side)</li> <li>• Loose between wheel and joint</li> <li>• Loose between bearing and kingpin</li> <li>• Bent axis or Eccentric tire wheel</li> </ul>

### Abnormal wear by uneven-inflation

Term	Shape	Causes
Shoulder wear		<ul style="list-style-type: none"> <li>• Under-inflation</li> <li>• Overload</li> <li>• Placed front axle</li> </ul>
Center wear		<ul style="list-style-type: none"> <li>• Under-inflation</li> <li>• Use at driving axle</li> </ul>
Heel and toe wear		<ul style="list-style-type: none"> <li>• Under-inflation</li> <li>• Overload</li> <li>• Mis-alignment</li> </ul>
Rail wear		<ul style="list-style-type: none"> <li>• Under-inflation</li> <li>• Overload</li> <li>• Mis-alignment</li> </ul>
Rib-pinch wear		<ul style="list-style-type: none"> <li>• Under-inflation</li> <li>• Overload</li> <li>• Mis-alignment</li> </ul>

Vehicle maintenance is essential, especially alignment and braking system are important. and do correct air pressure, load, tire rotation and also, consider proper driving manner.

