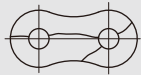
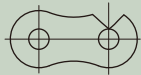
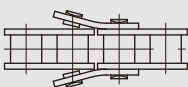
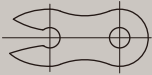


# Troubleshooting Guide

## Troubleshooting Guide

Description	Possible Reasons	Suggested Solution
Excessive noise	<ul style="list-style-type: none"> <li>• Drive has obstruction</li> <li>• Loose casing or shaft mounts</li> <li>• Excessive chain slack</li> <li>• Excessive chain wear</li> <li>• Excessive sprocket wear</li> <li>• Sprocket misalignment</li> <li>• Inadequate lubrication</li> <li>• Chain pitch is too large</li> <li>• Too few sprocket teeth</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect and remove obstruction. Replace chain if necessary</li> <li>• Tighten fasteners</li> <li>• Re-tension chain</li> <li>• Replace chain</li> <li>• Inspect chain for damage and replace sprockets</li> <li>• Inspect chain and sprockets for damage and re-align sprockets and shafts</li> <li>• Inspect chain. Clean and establish correct lubrication</li> <li>• Redesign the drive using a smaller chain pitch (multiple strands), if possible</li> <li>• Check to see if larger sprockets can be used. If not, redesign drive using a smaller chain pitch (multiple strands), if possible</li> </ul>
Wear on roller link plates and on one side of the sprocket tooth surface	<ul style="list-style-type: none"> <li>• Sprocket misalignment</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect chain and sprockets for damage and re-align sprockets and shafts</li> </ul>
Chain sticks to sprocket teeth	<ul style="list-style-type: none"> <li>• Excessive sprocket wear</li> <li>• Sprocket misalignment</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect chain for damage and replace sprockets</li> <li>• Inspect chain and sprockets for damage and re-align sprockets and shafts</li> </ul>
Chain climbs the sprocket teeth	<ul style="list-style-type: none"> <li>• Excessive chain slack</li> <li>• Excessive chain wear</li> <li>• Excessive sprocket wear</li> <li>• Extreme overload</li> </ul>	<ul style="list-style-type: none"> <li>• Re-tension chain</li> <li>• Replace chain</li> <li>• Inspect chain for damage and replace sprockets</li> <li>• Inspect the drive. Replace chain and eliminate the cause of overload</li> </ul>
Flaw on chain plate (Stress Corrosion Cracking)	<ul style="list-style-type: none"> <li>• Exposure to severe corrosion in combination with high interference fits</li> <li>• Hydrogen embrittlement from improper plating of chain</li> </ul> 	<ul style="list-style-type: none"> <li>• Protect the chain from corrosion or use stainless steel products</li> <li>• Never plate chains. Order plated chain from SFR</li> </ul>
Sidebar breaking (Fatigue failure)	<ul style="list-style-type: none"> <li>• Loading is greater than the chain's dynamic capacity</li> </ul> 	<ul style="list-style-type: none"> <li>• Inspect the drive to determine the cause of high load and eliminate if possible. Redesign the drive using a higher-capacity chain if the cause of high load cannot be eliminated</li> </ul>
Pin failure	<ul style="list-style-type: none"> <li>• Extreme overload</li> <li>• Inadequate lubrication</li> </ul> 	<ul style="list-style-type: none"> <li>• Replace chain and inspect all drive components for damage. Replace damaged components and eliminate the cause of overload</li> <li>• Replace chain and lubricate properly</li> </ul>
Link plate fails (Ultimate Strength Failure)	<ul style="list-style-type: none"> <li>• Extreme overload</li> <li>• Drive has obstruction</li> </ul> 	<ul style="list-style-type: none"> <li>• Replace chain and inspect all drive components for damage. Replace damaged components and eliminate the cause of overload</li> <li>• Inspect and remove obstruction. Replace chain if necessary</li> </ul>