



TECHNICAL INFORMATION

GOODYEAR ENGINEERED PRODUCTS SYNCHRONOUS CAUSES OF PREMATURE FAILURE

GOODYEAR ENGINEERED PRODUCTS SYNCHRONOUS CAUSES OF PREMATURE FAILURE		Corrective Action													
Type of Failure	Cause of Failure	Check Alignment	Adjust Tension	Check Horsepower Rating	Check Belt/Sprocket Compatibility	Replace Sprocket	Use Correct Sprocket Diameter	Eliminate or Control Condition	Clean and Protect Drive	Follow Proper Handling Procedure	Reinstall, Replace, Repair Flange	Remount Bushing and Sprocket	Change Sprocket Material	Use Inside Idler	Redesign Drive
Excessive Edge Wear	Misalignment or Improper Tracking	●													
	Bent or Rough Flange										●				
	Damage Due to Handling									●					
	Belt Too Wide				●										
	Low Belt Tension		●												
	Belt Hitting Obstruction								●						
Excessive Tooth Wear	Excessive Load			●											
	Belt Overtensioned/Undertensioned		●												
	Rough or Damaged Sprocket					●									
	Partial Belt Engagement	●													
	Bushing/Sprocket Assembly											●			
	Misalignment	●													
	Incorrect Match of Belt and Sprocket				●										
	Worn Sprocket					●									
	Sprocket Out of Tolerance					●									
	Soft Sprocket Material												●		
	Debris in Sprocket								●						
Apparent Belt Elongation	Change in Center Distance		●												
	Center Distance Fluctuates														●
	Weak Drive Structure or Mounts														●
	Worn Sprocket					●									
	Debris in Sprocket								●						
	Excessive Load								●						
	Sprocket Diameter below Minimum Recommendation						●								
	Excessive Low or High Temperature								●						
	Exposure to Oil, Solvents, Harsh Chemicals								●						
Cracks in Backing	Excessive Low or High Temperature							●							
	Sprocket Diameter below Minimum Recommendation						●								
	Backside Idler													●	
	Exposure to Oil, Solvents, Harsh Chemicals								●						

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Type of Failure	Cause of Failure	Corrective Action											
		Check Alignment	Adjust Tension	Check Horsepower Rating	Check Belt/Sprocket Compatibility	Replace Sprocket	Use Correct Sprocket Diameter	Eliminate or Control Condition	Clean and Protect Drive	Follow Proper Handling Procedure	Reinstall, Replace, Repair Flange	Remount Bushing and Sprocket	Change Sprocket Material
Tooth Shear	Excessive Load/Shock Load			•									
	Sprocket Diameter Below Minimum Recommendation						•						
	Less Than 6 Teeth in Mesh			•									
	Excessive Sprocket Runout					•							
	Worn Sprocket					•							
	Backside Idler												•
	Incorrect Match of Belt and Sprocket				•								
Tensile Failure	Misalignment	•											
	Belt Overtensioned/Undertensioned		•										
	Excessive Load/Shock Load			•									
	Sprocket Diameter Below Minimum Recommendation						•						
	Damage Due to Handling									•			
	Debris in Sprocket or Drive							•					
	Excessive Sprocket Runout					•							
Excessive Drive Noise	Misalignment	•											
	Belt Overtensioned/Undertensioned		•										
	Excessive Load			•									
	Sprocket Diameter Below Minimum Recommendation						•						
	Backside Idler												•
	Worn Sprocket					•							
	Damaged Flange									•			
	Excessive Belt Speed												•
	Incorrect Match of Belt and Sprocket				•								
Unmounting of Flange	Misalignment	•											
	Flange Incorrectly Mounted									•			
Belt Tracking	Misalignment	•											
	Center Distance Exceeds 8X Small Sprocket Diameter	•											
Excessive Pulley Wear	Soft Sprocket Material											•	
	Excessive Load				•								
	Misalignment	•											
	Debris in Sprocket							•					
	Belt Overtensioned/Undertensioned		•										
	Incorrect Match of Belt and Sprocket				•								
Excessive Drive Vibration	Bushing/Sprocket Assembly										•		
	Incorrect Match of Belt and Sprocket				•								
	Belt Overtensioned/Undertensioned		•										