

TROUBLE SHOOTING GUIDE: SHEAVES



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SHEAVE SYMPTOMS

SYMPTOMS	PROBABLE CAUSE	SOLUTION
Broken or damaged sheave	<ol style="list-style-type: none">1. Incorrect sheave installation2. Foreign objects falling into drive3. Excessive Rim Speed4. Incorrect belt installation	<ol style="list-style-type: none">1. Do not tighten bushing bolts beyond recommended torque values.2. Use adequate drive guard.3. Keep sheave rim speeds below maximum recommended value.4. Do not pry belts onto sheaves.
Severe, rapid groove wear	<ol style="list-style-type: none">1. Excessive belt tension2. Sand, debris contamination	<ol style="list-style-type: none">1. Retension, check drive design2. Clean and shield drive as well as possible

V-BELT SYMPTOMS

SYMPTOMS	PROBABLE CAUSE	SOLUTION
Cracking	<ol style="list-style-type: none">1. Sheave too small for belt section	<ol style="list-style-type: none">1. Use larger diameter sheave
Wear on sidewall	<ol style="list-style-type: none">1. Sheave misalignment.2. Worn Sheave.3. Incorrect belt.	<ol style="list-style-type: none">1. Realign drive.2. Replace sheave.3. Replace sheaves for correct belt/sheave match
Edge cord failure	<ol style="list-style-type: none">1. Sheave misalignment.2. Worn or incorrect Sheave.	<ol style="list-style-type: none">1. Check alignment and correct.2. Replace sheaves for correct belt/sheave match
Wear on top corner	<ol style="list-style-type: none">1. Belt-to-sheave fit incorrect	<ol style="list-style-type: none">1. Replace sheaves for correct belt/sheave match
Unusual vibration	<ol style="list-style-type: none">1. Incorrect Belt2. Excessive sheave eccentricity.	<ol style="list-style-type: none">1. Replace sheaves for correct belt/sheave match2. Replace defective sheave.
Undercord Cracking	<ol style="list-style-type: none">1. Sheave too small for belt section	<ol style="list-style-type: none">1. Use larger diameter sheave

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V-BELT SYMPTOMS

SYMPTOMS	PROBABLE CAUSE	SOLUTION
Wear on bottom surface	<ol style="list-style-type: none">1. Debris in sheave.2. Worn Sheave.3. Belt bottoming against sheave.	<ol style="list-style-type: none">1. Clean sheave.2. Replace sheave.3. Replace sheaves for correct belt/sheave match
Turn over or comes off drive	<ol style="list-style-type: none">1. Foreign material in grooves.2. Sheave misalignment3. Worn sheave grooves.4. Subliminal diameter sheave.	<ol style="list-style-type: none">1. Shield grooves and drive.2. Realign drive.3. Replace sheaves.4. Replace sheave with correct diameter.
Wear on bottom corner	<ol style="list-style-type: none">1. Belt-to-sheave fit incorrect2. Worn sheaves	<ol style="list-style-type: none">1. Replace sheaves for correct belt/sheave match2. Replace sheave
Unusually loud drive	<ol style="list-style-type: none">1. Incorrect belt for sheaves.2. Worn sheaves3. Debris in sheave.4. Sheave misaligned.	<ol style="list-style-type: none">1. Replace sheaves for correct belt/sheave match2. Replace sheave.3. Clean sheaves, improve shielding, remove rust/paint, or remove dirt from grooves.4. Realign drive.
Top of tie band damaged	<ol style="list-style-type: none">1. Debris in sheaves.	<ol style="list-style-type: none">1. Clean sheaves.
Tie band separation	<ol style="list-style-type: none">1. Worn or incorrect sheaves.2. Sheave misalignment.	<ol style="list-style-type: none">1. Replace sheaves.2. Realign drive.