

ROLLER CHAIN TROUBLE-SHOOTING GUIDE

Excessive Noise

Possible Causes

1. Misalignment of sprockets
2. Too little or too much slack
3. Inadequate lubrication
4. Loose bearings
5. Chain or sprocket worn out

What to do

1. Check alignment and correct
2. Adjust centers for proper slack, or idler take-up
3. Lubricate Properly
4. Draw up all bolts
5. Replace chain and/or sprocket

Wear On Chain Side or Link Plates and Sides of Sprocket Teeth

Possible Causes

1. Misalignment

What to do

1. Remove chain and correct alignment of sprockets and shafts

Chain Climbs Sprockets

Possible Causes

1. Chain worn out
2. Excessive chain slack
3. Material build-up on sprocket tooth pockets

What to do

1. Replace the chain and sprockets
2. Adjust take-up for proper slack
3. Remove material build-up in sprocket tooth pockets

Chain Clings to Sprockets

Possible Causes

1. Badly worn sprockets
2. Heavy or tacky lubricants
3. Material build-up in driver sprocket tooth pockets

What to do

1. Replace chain and sprockets
2. Clean and lubricate
3. Remove material build-up

Broken Sprocket teeth

Possible Causes

1. Obstruction or foreign material
2. Chain Climbing sprocket teeth

What to do

1. Check chain and sprocket clearances... remove foreign material

Broken Pins, Bushings or Rollers

Possible Causes

1. Heavy shock or suddenly applied loads
2. Material build-up in sprocket tooth pockets
3. Inadequate lubrication
4. Chain or sprocket corrosion
5. Worn sprockets

What to do

1. Reduce shock loads (easy starts assure long life)
2. Remove material build-up from sprocket tooth pockets
3. Lubricate properly
4. Protect from corrosion
5. Replace sprockets

Chain Whip

Possible Causes

1. Excessive chain stack
2. One or more stiff chain joints
3. Worn chain

What to do

1. Adjust chain take-up or idler
2. Replaces stiff links
3. Replace chain

Chain Gets Stiff

Possible Causes

1. Inadequate lubrication causes wear
2. Corrosion
3. Material build-up in chain joint
4. Misalignment

What to do

1. Remove chain if dirty or corroded... clean and lubricate properly
2. Protect chain from corrosion
3. Clean and lubricate more often
4. Check sprocket and shaft alignment

Chain Drive Runs Too Hot

Possible Causes

1. Operating in excess of recommended maximum speed
2. Insufficient amount of lubrication
3. Chain or shafts rubbing against an obstruction

What to do

1. Check drive for recommended speed
2. Increase lubrication frequency
3. Remove obstruction against which chain rubs