TYPE OF FAILURE												Troubloobooting	
												Troubleshooting Timing Belt Systems	acorn industrial services limited
e Edge Wear	Tooth Wear	Tooth Wear	Belt Stretch	Backing	Shear	ailure	Excessive Drive Noise	pping (Ratcheting)	king	Excessive Pulley Wear	Brive Vibration	Key: Primary Cause Possible Cause ? Could Cause But Not Likely	Acorn Industrial Services Ltd are the UK's leading distributor for Protorque. For further assistance please contact us on email: enquiries@acorn-ind.co.uk or telephone:
Excessive	Excessive	Uneven T	Apparent	Cracks in	Tooth She	Tensile Failure	Excessive	Tooth Skipping	Belt Tracking	Excessive	Excessive	POSSIBLE CAUSE OF FAILURE	Tel: 0800 8766 441 CORRECTIVE ACTION
•	?	0					?				?	Belt Hitting Obstruction	Remove obstruction or use idler to reroute belt
	0				•	•						Excessive Load	Redesign drive
	?					0	0			?	?	Belt Overtensioned	Use tensioning gauge to set proper tension
	•	0	?				0	•			?	Belt Undertensioned	Use tensioning gauge to set proper tension
	0	0									?	Rough or Damaged Pulley	Replace timing pulley
	•	•			0	•			•	?		Misalignment	Align shafts and pulleys
	0	0			?			?				Worn Pulley	Replace timing pulley
	?	?			?			?	?	?	?	Pulley Out of Tolerance	Replace timing pulley - Never attempt to re-machine
										•		Soft Pulley Material	Use harder pulley material
	0	?			?	0		0	0	•	0	Debris in Pulley or Drive	Shield drive
	?		•					0				Centre Distance Changed	Check lock down bolts on motors and shafts
	?		•				?	0	0		•	Weak Drive Structure	Reinforce drive structure
				•	?							Excessive Low Temperature	Moderate temperature especially at startup
			?	•	?						?	Excessive High Temperature	Moderate temperature, shield drive
			0	0	?	?		?		?		Exposure to Oil, Solvents, Chemicals	Shield drive, eliminate chemicals
			?	•		0						Pulley Diameter Sub Minimum	Redesign drive to increase pulley diameters
				0								Back Side Idler	Redesign to reduce wrap on backside idler
					•	0		0				Shock Loading	Eliminate shock loading or redesign drive to handle it
	?	?			0							Less than 6 Teeth in Mesh	Increase wrap on pulley
						?					0	Excessive Pulley Runout	Replace timing pulley
						•				?		Damage Due to Handling	Replace product, don't crimp belt or drop pulley
											0	Vibrating Bearings/Mountings	Replace bearing or reinforce mountings
									0			Centre Distance Greater than 8x Small Pulley Diameter	Alignment is critical
							0				•	Pulley Not Properly Balanced	Check pulley balance
	0				0		0					Belt/Pulley Incompatible	Check for proper belt