## **Needle Troubleshooting Guide**

Problems	Possible Causes	Solutions
Upper Thread Breaks	Incorrect threading	Check tension disc for cuts
	Knots or twists in thread	Rethread machine properly
	Tension too tight	Reset thread & bobbin tension
	Needle too small	Replace needle for correct size for
	<ul> <li>Damaged/old needle</li> </ul>	thread/application
		Check for thread stuck inside foot
Bobbin Thread Breaks	<ul> <li>Bobbin case incorrectly inserted</li> </ul>	Remove & re-insert bobbin with bobbin
	<ul> <li>Bobbin does not turn smoothly</li> </ul>	turning clockwise
	Lint in bobbin case	Check that bobbin case is not out of
	Bobbin tension too tight	shape
		Clean out bobbin case/tension spring     Charles a search babbin tension
Okinnad Otitahaa	Throught and the start 1.1.1	Check & reset bobbin tension
Skipped Stitches	Thread tension too tight	Clean out bobbin case and oil  Parlage paralle with sometime aller
	Needle damaged     Needle wrap reige	Replace needle with correct needle
	Needle wrong size     Souting marking out of adjustment	Size
	Sewing machine out of adjustment	Adjust machine timing, hook to needle clearance, needle bar height
Frayed Stitches	Needle too small	Increase needle size
i rayou outonos	Tension too tight	Reset tensions
	Damaged thread	Check for burrs in thread guides
	200904 4.11044	Replace thread
Thread Loops on Bottom	Thread not in to tension	Rethread machine with presser foot
·	Machine incorrectly threaded	"up" and use the take up lever
	Top tension too loose	Clean out tension discs
	Burr on hook mechanism	Remove burrs
		Reset top tension
Irregular stitches or	Wrong needle size	Ensure correct needle for fabric &
Malformed Stitches	<ul> <li>Incorrect threading</li> </ul>	thread
	<ul> <li>Upper tension too loose</li> </ul>	Carefully rethread machine
	Operator pulling fabric	Reset lower & upper tension
	Bobbin wound unevenly	Check presser foot pressure
		Rewind bobbin or replace
Fabric Puckers	Excessive stitch length	Decrease stitch length
	Needle point is blunt	Change needle often
	Excessive thread tension	Check bobbin & upper tension
	Fabric is too soft	Use stabilizer
	Thread displacement-too much thread in a	Decrease field density; increase stitch
	small area	length
	Fabric not feeding	Check presser foot; needle plate; feed  dogs
		dogs

Important: Needles DO NOT last forever, they should be replaced at the least every 8 hours. When going to a larger size of thread, a larger needle should be used. Information primarily provided by Schmetz Needle Company with some updates.

