

<b>Problem</b>	<b>Causes</b>	<b>Solutions</b>
<b>Upper Thread Breaks</b>	<ul style="list-style-type: none"> <li>• Incorrect threading</li> <li>• Knots or twists in thread</li> <li>• Tension too tight</li> <li>• Damaged/old needle</li> <li>• Needle too small</li> </ul>	<ul style="list-style-type: none"> <li>• Rethread machine properly</li> <li>• Replace thread</li> <li>• Reset bobbin and top thread tension</li> <li>• Replace needle</li> <li>• Use correct needle for thread and application</li> </ul>
<b>Bobbin Thread Breaks</b>	<ul style="list-style-type: none"> <li>• Bobbin case incorrectly threaded</li> <li>• Bobbin case incorrectly inserted</li> <li>• Bobbin does not turn smoothly in bobbin case</li> <li>• Lint in bobbin case</li> <li>• Bobbin tension too tight</li> </ul>	<ul style="list-style-type: none"> <li>• Remove bobbin and re-thread with bobbin turning clockwise</li> <li>• Remove and re-insert bobbin case</li> <li>• Check that bobbin case and bobbin are in "round"; replace if necessary</li> <li>• Clean bobbin case and surrounding machine area</li> <li>• Check and reset bobbin tension</li> </ul>
<b>Skipped Stitches</b>	<ul style="list-style-type: none"> <li>• Thread tension too tight</li> <li>• Needle damaged</li> <li>• Needle wrong size</li> <li>• Sewing machine out of adjustment</li> </ul>	<ul style="list-style-type: none"> <li>• Reset top and bobbin tension</li> <li>• Replace needle</li> <li>• Use correct needle size</li> <li>• Have sewing machine adjusted for timing; hook to needle clearance; needle bar height</li> </ul>
<b>Frayed Stitches</b>	<ul style="list-style-type: none"> <li>• Needle too small</li> <li>• Tension too tight</li> <li>• Damaged thread</li> </ul>	<ul style="list-style-type: none"> <li>• Increase needle size</li> <li>• Reset tension</li> <li>• Replace thread</li> </ul>
<b>Thread Loops on Bottom</b>	<ul style="list-style-type: none"> <li>• Thread not in top tension</li> <li>• Machine incorrectly threaded</li> <li>• Top tension too loose</li> <li>• Burr on hook mechanism</li> </ul>	<ul style="list-style-type: none"> <li>• Rethread machine with presser foot "up"</li> <li>• Rethread machine incorporating take up lever</li> <li>• Reset top tension</li> <li>• Remove burr</li> </ul>
<b>Irregular Stitches or Malformed Stitches</b>	<ul style="list-style-type: none"> <li>• Wrong needle size</li> <li>• Incorrect threading</li> <li>• Upper tension too loose</li> <li>• Operator pulling fabric</li> <li>• Bobbin wound unevenly</li> </ul>	<ul style="list-style-type: none"> <li>• Ensure correct needle for fabric &amp; thread</li> <li>• Un-thread machine and carefully rethread</li> <li>• Reset lower and upper thread tension</li> <li>• Check presser foot pressure</li> <li>• Rewind bobbin</li> </ul>
<b>Fabric Puckers</b>	<ul style="list-style-type: none"> <li>• Excessive stitch length</li> <li>• Needle point is blunt</li> <li>• Excessive thread tension</li> <li>• Fabric is too soft</li> <li>• Thread displacement — too much thread in a small area</li> <li>• Fabric not feeding</li> </ul>	<ul style="list-style-type: none"> <li>• Decrease stitch length</li> <li>• Change needle often</li> <li>• Check bobbin and upper tension</li> <li>• Use stabilizer</li> <li>• Decrease field density; scale embroidery designs; increase stitch length</li> <li>• Check presser foot, needle plate, feed dogs</li> </ul>