

YAMATA FY335A

TROUBLESHOOTING GUIDE

This section contains abbreviated troubleshooting information which can be of help in determining and removing the causes of trouble that may develop in the machine. When the troubles covered by this section develop, they can be conveniently tracked down and readily corrected by consulting the following listing.

DETAILS OF SPECIFIC TROUBLES, THEIR CAUSES, AND CORRECTIONS

a. Needle Breakage.

- (1) Needle is loose in the clamp. Tighten clamp screw.
- (2) Needles of incorrect class and variety are being used; compare needles with one of the correct types.
- (3) Presser foot is loose or out of line. Straighten and tighten it.
- (4) Needle is too light for the fabric. Select the correct needle.
- (5) Operator is pulling on fabric. DO NOT assist the machine in feeding material.

b. Needle-Thread Breakage

- (1) Thread is too heavy for the needle. Insert thicker needle.
- (2) Right-twist thread is being used. ONLY LEFT twist thread must be employed.
- (3) Damp or defective thread is being used. Use dry, smooth thread.
- (4) Machine is incorrectly threaded; follow the threading diagram for the machine.
- (5) Needle is incorrectly set. Set the needle with the short groove closest to the loop taker.
- (6) Upper tension is too tight; adjust for correct stitch balance.
- (7) Thread take-up spring is out of adjustment.
- (8) There is a sharp edge on the rotating loop taker bobbin case or tension controller; smooth with finest emery cloth (320 grit) or oil stone and polish with rouge cloth.
- (9) Needle is rubbing against the presser foot. Adjust and tighten the foot.
- (10) Needle is defective, blunted or bent at the point. Use a good, new needle.
- (11) Needle hole in feed dog is sharp-edged or burred. Smoothen offending areas.

c. Bobbin Thread Breakage.

- (1) Defective or damp thread is being used. Use dry thread of the correct size.
- (2) Bobbin case tension is too tight. Adjust to obtain well-balanced stitches.
- (3) Bobbin case is incorrectly threaded.
- (4) Bobbin is wound too full to revolve freely. Take off thread to below the rim of the bobbin and adjust the bobbin winder to avoid winding the bobbin with an excess of thread.
- (5) Rounds of thread on the bobbin are lapped over one another; unwind the bobbin manually and rewind evenly and uniformly.
- (6) Bobbin case is sticky with gummy oil and/or lint. Clean the bobbin case and rotating loop taker with kerosene or naphtha and lubricate the rotating loop taker with a few drops of oil.
- (7) There is a sharp edge on the rotating loop taker, bobbin case, bobbin or needle. Smoothen as necessary.
- (8) Bobbin sides may be bent, nicked or distorted and the bobbin will not turn freely. Such bobbins should be discarded and replaced.

d. Skipping Stitches. If the needle thread fails to catch the bobbin thread, the machine will not sew or will leave skips in the stitches. To remedy this trouble, time the needle with the needle bar.

e. Drawing of Seam. If the threads draw or pucker the seam, adjust the tensions.

f. Stitches Uneven or Stitches Piled Up. If the stitches pile up in one place, adjust the stitch length regulator for longer stitch. Also, if indicated, the presser foot, pressure on the material should be increased. Check the rise of the teeth of the feed dog above the surface of the needle plate. They should rise to the extent of their full depth.

g. Feed Dog Striking Throat Plate. If the feed dog strikes the throat plate, adjust the feed dog to rise above the throat plate no further than the depth of the feed dog teeth. Also check the travel of the feed dog within slots in the throat plate. Also observe whether, with a machine set for longest stitch, the feed dog strikes either the front or the rear of the feed dog slots in the throat plate. The simplest remedy for this problem is a slight reduction in stitch length to avoid such striking. There is also the possibility of an accumulation of debris from sewing between the feed dog and the underside of the throat plate. Remove throat plate from machine bed by loosening its screws and brush out from feed dog any foreign matter which may have become packed, into its slots and between its teeth; also, wipe clean the underside of the throat plate. Replace throat plate on machine bed, tightening its screws.