



FOR THE LOVE OF SEWING

Sewing/Embroidery Repair Procedures Checklist BLG/BLL/BLN/BLSR

1. _____ Turn on power to the machine. Check all control settings. Check that it is upgraded to the latest version. To check the version, go the page 3 in *machine settings*.
2. _____ Select a stitch and test the LCD screen.
3. _____ Install a new size 80/12 needle.
4. _____ Inspect the needle threader by using it to thread the machine.
5. _____ Test machine by doing a quick sew-out.
6. _____ Press the thread cutting button. Scissors should activate and cut the thread.
7. _____ Remove the face plate.
8. _____ Inspect the front and back position of the “J” foot opening in relationship to the needle plate opening. Remove “J” foot.
9. _____ In test mode #4, check the center needle position. Stitch 1-03
10. _____ Turn off the power to the machine. Remove the needle plate and inspect for scarring around the needle hole. Buff or replace needle plate if needed.
11. _____ Remove the bobbin case and inspect for needle strikes. Check the fuzz pad. Remove debris and lint from the tension plate with the corner of a piece of paper. The BLG - BLCC bobbin cases have “green” lock down paint on the tension adjust screw, which is set from the factory at 11-13 grams. The gram setting on the “pink” embroidery bobbin case should be 18-22 grams. Using your gram gauge with 60 wt. polyester thread attached, measure each bobbin case and adjust accordingly.
12. _____ Remove all covers except the rear cover. Clean and lubricate the machine.
13. _____ Inspect the tension of the timing belt.
14. _____ Inspect the tension of the motor belt.
15. _____ Inspect the outer hook. Clean and buff if burred. Make sure there is no up/down play from the hook shaft.
16. _____ Replace the thread cutting blade. (X80321001)
17. _____ Reattach the front cover connectors to the main PC board.
18. _____ Recalibrate the touch panel on the LCD screen.
19. _____ While pressing the Stop/Start and Reverse buttons, simultaneously, turn the power back on. Go the test program 1-50.
20. _____ Select test #4, *Left Baseline Position*. Check needle hook timing and needle bar height. For best results, put slight pressure, clockwise on the hook.

21. _____ While still in left base line position mode, adjust needle clearance with the 2mm screw on the back of the needle module. Turn machine power off.
22. _____ Reinstall the needle plate. Use the beveled set screws to align the plate.
23. _____ Reinstall the bobbin case and check the bobbin case bracket.
24. _____ Select test #6, *Feed Dog Clearance*. Check center, left and right position of the feed dogs.
25. _____ Attach shank and J foot.
26. _____ Select test #7, *Presser Foot Height*. Lower the J foot down flat against the needle plate and lower the feed dogs. Confirm that the reading is 0.0. Place a 3mm allen wrench between the J foot and the needle plate. The reading should be 3.0.
27. _____ Select test #2, *Fabric Thickness* and reset if needed. Must set 3mm first.
28. _____ Select test #7 again to confirm that the 0 and 3 are set correctly.
29. _____ Check the feed dog height. With the J foot and the feed dogs in the lowest position, turn the hand wheel one full turn until the feed dogs are in the highest position. The reading should be 0.8 to 1.0.
30. _____ Select test #25, *Tension Adjustment*. Adjust utility and embroidery setting to 0.0.
31. _____ The pre-tension plate should be adjusted to 8 to 10 grams. Lower the presser foot and adjust the brass screw on the pre-tension plate to this setting.
32. _____ While routing thread through the pre-tension and tension disks, you should get a reading of 58-63 grams. Lower the presser foot and touch the plus or minus keys on the screens until you get this reading.
33. _____ Reinstall all covers.
34. _____ Wind a bobbin and inspect the bobbin winder and stopper.
35. _____ Sew off the following:
 - Test #3, *Fine Adjustment of Stitch*. Use the N foot and adjust if needed.
 - Character stitches A, B & C using the N foot.
 - Various decorative stitches using the N foot.
 - Forward and reverse stitches (2-10, 2-03, 2-17) using the J foot.
 - Buttonhole stitch 4-08, using the A foot.
 - Straight stitch 1-03 using the J foot.
 - Zig Zag stitch 1-10 using the J foot.
 - Basting stitch 1-08 using the J foot.
36. _____ Inspect the stitch count, test #19, and record if applicable for your repair. Clear the stitch count.
37. _____ Clear the memory, test #19, only if the machine is for resale.
38. _____ Perform the following embroidery unit inspection:
 - Remove the covers and clean the gears by removing lint and threads.
 - Lubricate the shafts.
 - Check the belt pressers.
 - Check the belt tensions. They should not be excessively tight or loose.
 - Adjust as needed.
 - Embroider a design with an outline.