

iKonix DDL 8700

Instruction Manual: iKonix Juki DDL-8700 Industrial Lockstitch Sewing Machine

Model: DDL-8700 Standard

1. INTRODUCTION

This manual provides comprehensive instructions for the assembly, operation, and maintenance of your iKonix Juki DDL-8700 Industrial Lockstitch Sewing Machine. This machine is designed for professional apparel sewing, offering high-speed and precise stitching for various fabric types. Please read this manual thoroughly before operating the machine to ensure safe and efficient use.

The Juki DDL-8700 is a single-needle lockstitch industrial sewing machine, known for its reliability and performance in demanding environments. It features an auto-lubricating full rotary hook and a powerful electronic DC Servo Motor for consistent operation.

2. IMPORTANT SAFETY INSTRUCTIONS

- Always disconnect the power supply before performing any maintenance, cleaning, or when the machine is not in use.
- Keep hands and fingers away from the needle, presser foot, and other moving parts during operation.
- Wear appropriate eye protection when operating the machine.
- Ensure the machine is placed on a stable, level surface to prevent tipping.
- Do not operate the machine if any parts are damaged or missing.
- Keep children and pets away from the machine during operation.
- Use only genuine replacement parts and accessories.
- Do not attempt to modify the machine.

3. PACKAGE CONTENTS

Your iKonix Juki DDL-8700 Industrial Lockstitch Sewing Machine package includes the following components:

- Juki DDL-8700 Machine Head
- Sewing Machine Table (unassembled)
- Electronic DC Servo Motor (550 watts, 110V)
- Bobbin Winder
- Thread Stand
- Machine Oil
- Instruction Manual (this document)
- Oil Pan
- Knee Lifter
- V-Belt
- Drawer
- Tools
- LED Lamp



Figure 3.1: Assorted assembly components and accessories included with the machine.

4. SETUP AND ASSEMBLY

Note: Professional assembly may be required. The machine comes unassembled.

4.1. Unpacking and Inspection

Carefully unpack all components from their sealed boxes. Verify that all items listed in the "Package Contents"

section are present and undamaged. Report any discrepancies or damage to your supplier immediately.



Figure 4.1: The Juki DDL-8700 machine head.



Figure 4.2: Front view of the machine head.

4.2. Table Assembly

Assemble the sewing machine table according to the included diagram (refer to the separate assembly diagram if provided). Ensure all bolts are securely tightened for stability.



Figure 4.3: Assembled machine with table.

4.3. Motor Installation

Mount the Electronic DC Servo Motor (550 watts, 110V) to the underside of the table. Connect the V-belt between the motor pulley and the machine head's handwheel. Ensure the belt tension is appropriate – not too tight, not too loose.



Figure 4.4: The iKonix 550W DC Servo Motor.



Figure 4.5: Motor and foot pedal linkage installed under the table.

4.4. Oil Pan and Lubrication

Install the oil pan beneath the machine head. Fill the oil pan with the provided machine oil to the indicated level. The machine features an auto-lubricating full rotary hook system, which requires proper oil levels for optimal performance.



Figure 4.6: View of the oil pan and internal components.

4.5. LED Lamp Installation

Attach the LED lamp to the machine table or head, positioning it to illuminate the sewing area effectively. Plug the lamp into a suitable power source.



Figure 4.7: Included LED Lamp.

5. OPERATING INSTRUCTIONS

5.1. Powering On/Off

Connect the machine's power cord to a grounded 110V AC outlet. Use the power switch on the servo motor to turn the machine ON or OFF.

5.2. Threading the Machine

Follow the threading path indicated on the machine head and in the detailed threading diagram (refer to the separate threading guide if provided). Ensure the thread passes through all tension discs, guides, and the needle eye correctly. Improper threading can lead to skipped stitches or thread breakage.

5.3. Winding the Bobbin

Place an empty bobbin onto the bobbin winder spindle. Guide the thread from the spool through the tension disc of the bobbin winder and then around the bobbin. Engage the bobbin winder mechanism and press the foot pedal lightly to wind the bobbin. Stop when the bobbin is full but not overfilled.

5.4. Adjusting Stitch Length

The maximum stitch length is 5 mm. Adjust the stitch length dial located on the machine head to achieve the desired stitch length. A higher number typically indicates a longer stitch.

5.5. Adjusting Presser Foot Lift

The presser foot can be lifted by hand (max. 5.5 mm) or by using the knee lifter (max. 13 mm). Use the knee lifter for thicker materials or when you need both hands free to manipulate fabric.

5.6. Sewing Speed

The maximum sewing speed is 5,500 stitches per minute (spm). The electronic DC Servo Motor allows for precise speed control via the foot pedal. Press the pedal gently for slower speeds and more control, and press further for higher speeds.

5.7. Needle Selection

Use needles of size 9-18 (DBX1, 16x231) for general sewing. Needles up to size 19 can be used for heavier materials. Always use the correct needle type and size for your fabric to prevent damage to the needle, fabric, or machine.

6. MAINTENANCE

6.1. Lubrication

The Juki DDL-8700 features an auto-lubricating full rotary hook. Regularly check the oil level in the oil pan and replenish as needed with high-quality sewing machine oil. Ensure the oil is clean and free of debris.

6.2. Cleaning

Regularly clean lint and dust from the bobbin case area, feed dogs, and tension discs using a small brush or vacuum cleaner. Accumulation of lint can affect stitch quality and machine performance.

6.3. Needle Replacement

Replace the needle frequently, especially if it becomes bent, dull, or if you notice skipped stitches. A worn needle can damage fabric and cause machine issues. Ensure the needle is inserted correctly with the flat side facing the back.

6.4. Belt Inspection

Periodically inspect the V-belt for wear, cracks, or looseness. Replace the belt if it shows signs of damage or if it slips during operation.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect needle, bent needle, improper threading, incorrect tension.	Replace needle, re-thread machine, adjust tension.
Thread Breakage	High tension, burr on needle plate, poor quality thread, incorrect needle.	Reduce tension, check for burrs, use quality thread, replace needle.
Machine Not Starting	No power, motor switch off, V-belt disengaged.	Check power connection, turn on motor switch, check V-belt.
Noisy Operation	Lack of lubrication, loose parts, lint accumulation.	Check oil level, tighten loose screws, clean machine.

8. SPECIFICATIONS

Feature	Detail
Model	DDL-8700 Standard
Machine Type	Single-needle Lockstitch Industrial Sewing Machine
Motor Type	Electronic DC Servo Motor
Motor Power	550 watts, 3/4 H.P.
Voltage	1 Phase, 110 Volt
Sewing Speed (max.)	5,500 spm (stitches per minute)
Stitch Length (max.)	5 mm
Stitches per Inch (max.)	6 stitches per inch
Presser Foot Lift (hand)	max. 5.5 mm
Presser Foot Lift (knee)	max. 13 mm

Feature	Detail
Needle Bar Stroke	30.7 mm
Hook Type	Auto-lubricating full rotary hook
Needles	9-18 DBX1 (16x231) up to size 19
Arm Space to Right of Needle	11 inches
Product Dimensions	15 x 13 x 11 inches (machine head only)
Item Weight	229 pounds (total assembled weight)
Manufacturer	iKonix
UPC	880753771071

9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation provided at the time of purchase or contact your retailer. iKonix offers various protection plans for extended coverage.

For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact iKonix customer service or your authorized dealer. Keep your purchase receipt and model number (DDL-8700) ready when contacting support.

Protection plans available for purchase:

- 3-Year Protection Plan
- 4-Year Protection Plan

For more information, visit the [iKonix Brand Store on Amazon](#).