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JUKI DDL-8100e

Juki DDL-8100e Industrial Sewing Machine User Manual

Model: DDL-8100e | Brand: JUKI

1. INTRODUCTION

The Juki DDL-8100e is an economic lockstitch industrial sewing machine designed for light to medium-weight fabrics. It is a single-needle machine capable of high-speed operation, making it suitable for various apparel and interior fabric applications. This manual provides essential information for the setup, operation, and maintenance of your Juki DDL-8100e sewing machine.



Figure 1.1: Juki DDL-8100e Industrial Sewing Machine Head.

2. SAFETY INSTRUCTIONS

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- Always disconnect the power supply before cleaning, servicing, or performing any maintenance on the machine.
 - Keep fingers and loose clothing away from the needle, handwheel, and other moving parts during operation.
 - 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.
 - Use only genuine Juki replacement parts and accessories.
 - Keep children and pets away from the machine during operation.

3. PACKAGE CONTENTS

Upon unpacking, verify that all components are present. The Juki DDL-8100e typically includes the following:

- Juki DDL-8100e Machine Head
- Sewing Machine Table (Knockdown)
- Servo Motor
- Bobbin Winder
- Thread Stand
- Machine Oil
- Instruction Manual (this document)
- Oil Pan
- Knee Lifter
- V-Belt
- Drawer, Tools, Lamp (as supplied)



Figure 3.1: Typical package contents including the machine head, box, and various accessories.

4. SETUP

4.1 Assembly

Professional assembly may be required for the sewing machine table and motor. Follow the detailed instructions provided in the separate assembly guide for the table and motor. Ensure all connections are secure before proceeding.



Figure 4.1: Fully assembled Juki DDL-8100e machine with table and thread stand.

The machine table is designed for durability and stability. The motor is typically mounted underneath the table, connected via a V-belt to the machine head.



Figure 4.2: Underside view of the table, illustrating the motor and foot pedal linkage.

4.2 Table Height Adjustment

The height of the work surface is adjustable to accommodate different user heights and preferences. Locate the adjustment bolts on the table legs and loosen them to raise or lower the table. Securely tighten the bolts once the desired height is achieved.



Figure 4.3: The sturdy table top designed for the industrial machine head.

4.3 Motor and Power Connection

Connect the servo motor to a suitable power outlet. The motor is designed for quiet operation and includes a speed regulator for precise control. Ensure the power switch is in the OFF position before plugging in the machine.



Figure 4.4: Components of the servo motor, including the speed regulator.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Locate the power switch, typically on the underside of the table or near the motor. Flip the switch to the 'ON' position to power the machine. The motor operates silently when idle.

5.2 Speed Control

The servo motor features a speed regulator, usually a dial or knob, allowing you to adjust the maximum sewing speed. For beginners, it is recommended to set a lower speed. Experienced users can set it to a higher speed for faster production.

5.3 Stitch Length Adjustment

The stitch length can be adjusted using the dial located on the machine head. Rotate the dial to select the desired stitch length, up to a maximum of 5 mm. Pressing the adjacent lever may facilitate easier adjustment.

5.4 Reverse Stitching

To perform reverse stitching (backtack), engage the reverse lever. This is useful for securing seams at the beginning and end of a stitch line.

5.5 Presser Foot Lift

The presser foot can be lifted manually by hand (max. 5.5 mm) or using the knee lifter (max. 13 mm). The knee lifter provides hands-free operation, which is convenient for handling fabric.

5.6 Needle Information

The machine uses needles of type DBx1 (16x231), typically sizes 9-18, and up to size 19 for heavier materials. Always use the correct needle size for your fabric to ensure optimal stitching and prevent needle breakage.

5.7 Lighting

For enhanced visibility, additional lighting can be attached to the machine or table. A small magnetic light can provide close illumination, while a larger lamp can illuminate the entire work area.

6. MAINTENANCE

6.1 Lubrication

The Juki DDL-8100e features an auto-lubricating full rotary hook system. Ensure the oil pan is filled with the recommended lubricating oil (No. 7, equivalent to ISO VG7). Regularly check the oil level and replenish as needed to maintain smooth operation and prolong machine life.

6.2 Cleaning

Regularly clean lint and dust from the feed dog, bobbin area, and other accessible parts of the machine. Use a soft brush or vacuum cleaner attachment. Keeping the machine clean prevents thread jams and ensures consistent stitch quality.

7. TROUBLESHOOTING

This section provides general troubleshooting tips. For complex issues, consult a qualified technician.

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect needle, bent needle, improper threading, tension issues.	Replace needle, re-thread machine, adjust tension.
Thread Breakage	Incorrect tension, poor quality thread, burrs on needle plate, damaged needle.	Check tension, use quality thread, inspect machine for rough spots, replace needle.
Machine Not Starting	No power, motor issue, foot pedal malfunction.	Check power connection, ensure switch is ON, inspect motor and pedal connections.

8. SPECIFICATIONS

Key specifications for the Juki DDL-8100e industrial sewing machine:

SPECIFICATIONS

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Model name	DDL-8100e
Application	Light- to Medium-weight
Max. sewing speed	4,500 sti/min*
Max. stitch length	5mm
Needle bar stroke	30.7mm
Lift of the presser foot	By hand: 5.5mm By knee: 13mm
Needle	DBx1 (#14) #9~#18
Feed dog	3-row
Hook	Automatic-lubricating full
Lubrication	Automatic
Lubricating oil	No. 7 (equivalent to ISO VG7)
Weight of the machine head	26kg

Figure 8.1: Detailed specifications for the Juki DDL-8100e.

Feature	Specification
Model Name	DDL-8100e
Application	Light- to Medium-weight fabrics
Max. Sewing Speed	4,500 sti/min* (up to 5,500 spm)
Max. Stitch Length	5 mm
Needle Bar Stroke	30.7 mm
Lift of the Presser Foot	By hand: 5.5 mm; By knee: 13 mm
Needle	DBx1 (#14) #9~#18 (16x231 up to size 19)
Feed Dog	3-row
Hook	Automatic-lubricating full rotary hook
Lubrication	Automatic
Lubricating Oil	No. 7 (equivalent to ISO VG7)
Weight of the Machine Head	26 kg (approx. 57.3 lbs)
Product Dimensions (assembled)	19 x 25 x 5 inches (machine head only)

Feature	Specification
Item Weight (total)	200 pounds
UPC	760781219427

*Note: Maximum sewing speed may vary based on specific model variations and operating conditions.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact JUKI customer service directly. Keep your purchase receipt and model number handy for faster assistance.

For additional resources and FAQs, visit the official JUKI website or authorized service centers.