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› [JUKI DDL-8700-7 Industrial Straight Stitch Sewing Machine User Manual](#)

JUKI DDL-8700-7

JUKI DDL-8700-7 Industrial Straight Stitch Sewing Machine User Manual

Model: DDL-8700-7 | Brand: JUKI

1. INTRODUCTION

The JUKI DDL-8700-7 is a high-performance, single-needle, straight stitch industrial sewing machine designed for professional use. It features advanced functions such as automatic thread trimming and automatic footlift, enhancing productivity and ease of operation. This machine is optimized for sewing light to medium weight fabrics, making it suitable for a wide range of textile applications. Its robust construction and engineering contribute to reduced vibration and noise during operation, providing a comfortable working environment. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your JUKI DDL-8700-7 sewing machine.

2. SAFETY INSTRUCTIONS

Always prioritize safety when operating any industrial machinery. Adhere to the following guidelines:

- **Power Disconnection:** Always disconnect the machine from the power supply before performing any maintenance, cleaning, or when changing needles or presser feet.
- **Moving Parts:** Keep hands, fingers, and loose clothing away from the needle, presser foot, and other moving parts during operation.
- **Eye Protection:** Wear appropriate eye protection to prevent injury from broken needles or flying debris.
- **Proper Ventilation:** Ensure the work area is well-ventilated.
- **Stable Surface:** Operate the machine only on a stable, level surface.
- **Children and Pets:** Keep children and pets away from the machine during operation.
- **Fabric Compatibility:** This machine is not intended for leather or other heavy materials. Use only with light to medium weight fabrics.

3. PRODUCT OVERVIEW

The JUKI DDL-8700-7 is delivered as a complete unit, pre-assembled with the machine head, table, stand, and motor. Minor adjustments or connections may be required upon delivery.



Figure 3.1: The JUKI DDL-8700-7 machine head, featuring the integrated CP-18 control panel for advanced stitch programming and automated functions.



Figure 3.2: The complete JUKI DDL-8700-7 industrial sewing machine setup, including the machine head, sturdy table, and robust stand, ready for operation.

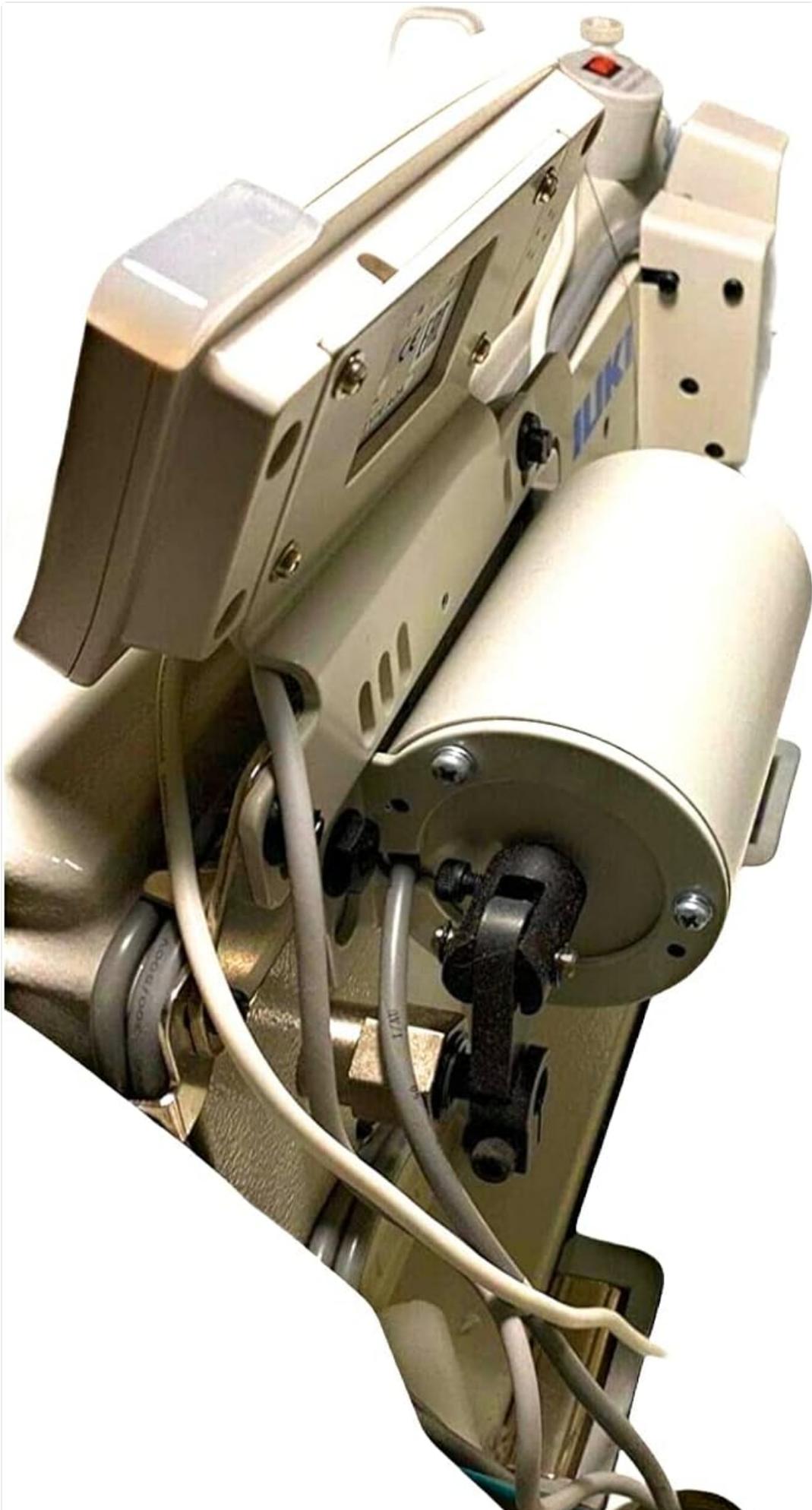




Figure 3.3: An underside view of the JUKI DDL-8700-7, illustrating the M92 servo motor and associated wiring for power and control.

Key Components:

- **Machine Head:** The main sewing mechanism.
- **Table and Stand:** Provides a stable and ergonomic workspace.
- **M92 Servo Motor:** Energy-efficient and quiet motor for precise speed control.
- **SC920 Control Box:** Manages the electronic functions of the machine.
- **CP-18 Panel:** User interface for programming stitch functions, automatic thread trimming, and footlift.
- **Sewing Light:** Illuminates the sewing area for improved visibility.

4. SETUP

Your JUKI DDL-8700-7 is shipped as a complete unit, pre-assembled with the machine head, table, stand, and motor. Minor adjustments or connections may be required upon delivery.

1. **Placement:** Position the machine on a firm, level floor in a well-lit area with adequate space for operation and maintenance.
2. **Power Connection:** Connect the machine's power cord to a standard 110V electrical outlet. Ensure the outlet is properly grounded.
3. **Needle Installation:**
 - Ensure the machine is powered off.
 - Loosen the needle clamp screw.
 - Insert a new needle (type DB X 1, sizes 9-18 recommended for general use) with the flat side facing away from you.
 - Push the needle up as far as it will go, then tighten the needle clamp screw securely.
4. **Thread Path:** Follow the threading diagram typically found on the machine head or in the accompanying quick-start guide. Ensure the thread passes through all tension discs, guides, and the take-up lever correctly before threading the needle.
5. **Bobbin Winding and Insertion:** Wind the bobbin evenly and insert it into the bobbin case according to the machine's instructions. Ensure the bobbin thread is correctly tensioned.

5. OPERATING INSTRUCTIONS

This section outlines the basic steps for operating your JUKI DDL-8700-7.

1. **Power On:** Turn on the main power switch, usually located near the motor or control box. The CP-18 panel display will illuminate.
2. **CP-18 Panel Usage:**

- **Automatic Thread Trimming:** This feature automatically cuts the top and bobbin threads at the end of a seam. Activate or deactivate this function via the CP-18 panel settings.
 - **Automatic Footlift:** The presser foot can be programmed to lift automatically at the end of a seam or when the machine stops. Adjust settings on the CP-18 panel.
 - **Stitch Programming:** The CP-18 panel allows for programming functions such as the number of stitches and backtacking patterns. Refer to the CP-18 specific manual for detailed programming instructions.
3. **Sewing Light:** The integrated sewing light can be turned on or off to provide optimal illumination of your work area.

4. **Starting to Sew:**

- Place your fabric under the presser foot.
- Lower the presser foot using the knee lift or manual lever.
- Gently press the foot pedal to begin sewing. The servo motor allows for precise speed control; press lightly for slower speeds and more firmly for higher speeds.
- Guide the fabric smoothly through the machine.

5. **Ending a Seam:**

- Slow down as you approach the end of your seam.
- If automatic thread trimming is enabled, the machine will cut the threads and lift the foot automatically.
- If not, manually lift the presser foot and cut the threads.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your JUKI DDL-8700-7.

• **Cleaning:**

- Regularly remove lint and dust from the bobbin area, feed dogs, and tension discs using a small brush or vacuum cleaner.
- Wipe down the machine exterior with a soft, dry cloth. Avoid using harsh chemicals.

• **Lubrication:** Industrial sewing machines require regular oiling. Consult the detailed JUKI service manual for specific oiling points and frequency. Use only recommended sewing machine oil.

• **Needle Replacement:** Replace needles frequently, especially when working with different fabrics or if you notice skipped stitches or thread breakage. A dull or bent needle can damage fabric and affect stitch quality.

• **Professional Servicing:** For complex issues or routine comprehensive maintenance, it is recommended to have the machine serviced by a qualified technician.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For more detailed troubleshooting, refer to the comprehensive service manual.

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect needle size/type, 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.
Uneven Stitches	Incorrect tension, worn feed dogs, inconsistent fabric feeding.	Adjust tension, ensure consistent fabric guidance.
Machine Not Starting	No power, safety switch engaged, motor issue.	Check power connection, ensure safety switches are disengaged, consult technician if motor issue suspected.

8. SPECIFICATIONS

Feature	Detail
Model	DDL-8700-7
Type	Single-Needle, Straight Stitch Industrial Sewing Machine with Undertrimmer
Max. Sewing Speed	5000 stitches/minute
Max. Stitch Length	4mm
Needle System	DB X 1
Recommended Needle Sizes	9-18
Power Supply	110V
Motor	Juki M92 Servo Motor
Control Box	SC920
Control Panel	CP-18
Unit Dimensions (LxWxH)	48 inches x 20 inches x 48 inches
Item Weight	92.6 pounds
UPC	189684000305

9. WARRANTY AND SUPPORT

Your JUKI DDL-8700-7 is designed for durability and performance. For any concerns or assistance, please refer to the following:

- **Returns:** The product is eligible for 30-day easy returns. Please refer to your purchase agreement for specific terms and conditions.
- **Protection Plans:** Extended protection plans (e.g., 3-Year, 4-Year) may be available for purchase to provide additional coverage beyond the standard warranty. Check with your retailer for details.
- **Customer Support:** For technical assistance, parts, or service inquiries, please contact the customer support provided by your seller or JUKI directly.

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