

## JUKI LH-3578A

# Juki LH-3578A 2-Needle Semi-Dry Head Lockstitch Industrial Sewing Machine User Manual

Model: LH-3578A

## 1. INTRODUCTION

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This manual provides essential instructions for the safe and efficient operation, setup, maintenance, and troubleshooting of your Juki LH-3578A 2-Needle Semi-Dry Head Lockstitch Industrial Sewing Machine. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent damage or injury.

The Juki LH-3578A is designed for high-performance industrial sewing applications, featuring a semi-dry head to minimize oil stains on materials and a two-needle configuration for parallel stitching.



*Image: The Juki LH-3578A 2-Needle Semi-Dry Head Lockstitch Industrial Sewing Machine. This image displays the complete machine head, highlighting its two-needle setup, thread guides, tension dials, and the JUKI branding. The semi-dry head design is visible, indicating reduced oil usage.*

## 2. SAFETY INSTRUCTIONS

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Always observe the following safety precautions to prevent accidents and ensure safe operation:

- Ensure the machine is properly grounded.
- Disconnect power before cleaning, servicing, or changing needles.
- Keep hands and fingers away from the needle and moving parts during operation.
- Wear appropriate eye protection.
- Do not operate the machine if any parts are damaged or missing.
- Keep the work area clean and well-lit.

## 3. SETUP

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The Juki LH-3578A machine head is typically supplied with a table and clutch motor, often pre-assembled for convenience. This section outlines general setup procedures.

### 3.1. Machine Placement

Place the machine on a stable, level surface. Ensure adequate space around the machine for material handling and maintenance.

### 3.2. Power Connection

Connect the clutch motor to a suitable power supply. Verify that the voltage and frequency match the machine's requirements. The machine is electric and requires a stable power source.

### 3.3. Needle Installation

1. Turn off the power switch.
2. Loosen the needle clamp screws.
3. Insert new needles with the long groove facing the left.
4. Push the needles up as far as they will go.
5. Tighten the needle clamp screws securely.

### 3.4. Threading the Machine

Follow the numbered thread guides from the spool pins through the tension discs, take-up levers, and finally through the needles. Ensure both needles are threaded correctly for two-needle operation.

## 4. OPERATING INSTRUCTIONS

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### 4.1. Basic Operation

- Turn on the power switch.
- Place the fabric under the presser foot.
- Lower the presser foot.
- Gently press the foot pedal to start sewing. The clutch motor provides precise speed control based on pedal pressure.

## 4.2. Stitch Length Adjustment

Adjust the stitch length by rotating the stitch length dial, typically located on the front of the machine head. Refer to the markings for desired stitch per inch (SPI) or millimeter (mm) settings.

## 4.3. Thread Tension Adjustment

Proper thread tension is crucial for balanced stitches. Adjust the upper thread tension using the tension dials for each needle. Bobbin tension is adjusted via a screw on the bobbin case. Test on scrap fabric to achieve optimal tension.

## 4.4. Reverse Stitching

To engage reverse stitching for back-tacking and securing seams, depress the reverse lever or button, usually located near the stitch length dial. Release to resume forward stitching.

# 5. MAINTENANCE

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Regular maintenance ensures the longevity and optimal performance of your Juki LH-3578A.

## 5.1. Cleaning

- **Daily:** Remove lint and dust from the needle plate, feed dogs, and bobbin area using a brush or vacuum.
- **Weekly:** Clean under the needle plate and around the hook area.
- **Monthly:** Perform a more thorough cleaning of all accessible parts, ensuring no thread scraps or debris impede movement.

## 5.2. Lubrication

The LH-3578A features a semi-dry head, which significantly reduces the need for oiling in the needle bar and take-up areas. However, specific points, particularly around the hook and lower shaft, still require lubrication. Refer to the machine's oiling points diagram (if available) and use only genuine Juki sewing machine oil. Over-oiling can lead to oil stains on fabric.

## 5.3. Needle Replacement

Replace needles regularly, especially when they become dull, bent, or if skipped stitches occur. Always use the correct needle type and size for your fabric and thread.

# 6. TROUBLESHOOTING

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This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Skipped Stitches	Dull or bent needle, incorrect needle size, improper threading, incorrect needle installation.	Replace needle, use correct needle, re-thread machine, re-install needle correctly.
Thread Breakage	Incorrect tension, poor quality thread, burrs on thread path, damaged needle, improper threading.	Adjust tension, use quality thread, check thread path for damage, replace needle, re-thread.

Problem	Possible Cause	Solution
Uneven Stitches	Incorrect tension, worn feed dogs, inconsistent fabric feeding.	Adjust tension, clean/replace feed dogs, ensure consistent fabric handling.
Machine Not Starting	No power, motor issue, safety switch engaged.	Check power connection, consult technician for motor, check safety mechanisms.

## 7. SPECIFICATIONS

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Key specifications for the Juki LH-3578A:

- **Brand:** JUKI
- **Model Number:** LH-3578A
- **Type:** 2-Needle Semi-Dry Head Lockstitch Industrial Machine
- **Power:** Electric
- **UPC:** 369548963254
- **First Available:** January 31, 2019

## 8. WARRANTY INFORMATION

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For specific warranty terms and conditions, please refer to the warranty card included with your machine or contact your authorized Juki dealer. Warranty coverage typically includes manufacturing defects for a specified period from the date of purchase.

## 9. SUPPORT

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For technical assistance, spare parts, or service, please contact your local authorized Juki dealer or the Juki customer support center. When contacting support, please have your machine's model number (LH-3578A) and serial number ready.