

JUKI MO-6714S

JUKI MO-6714S Industrial 4-Thread Overlock Sewing Machine

User Manual

1. PRODUCT OVERVIEW

The JUKI MO-6714S is a high-performance, 2-needle, 4-thread industrial overlock sewing machine designed for professional use. It specializes in overlock stitching for light to medium weight fabrics, offering high speed, reliability, and consistent stitch quality. Equipped with differential feed capabilities, it adapts to various fabric types, from rigid to elastic. This machine is specifically engineered for overlock stitches and is not intended for other stitch types.

The unit is typically supplied as a complete setup, including the machine head, table, stand, motor, sewing light, and drawer, with all necessary components installed and ready for operation.



Figure 1: JUKI MO-6714S Industrial 4-Thread Overlock Sewing Machine. This image displays the complete machine, highlighting its white body, metallic work surface, and the four thread spools on top, along with the JUKI brand logo.

2. SETUP AND ASSEMBLY

While the JUKI MO-6714S is often shipped as a complete unit, some assembly of the table and stand may be required. Refer to the specific assembly instructions provided with your machine for detailed steps. These instructions typically include diagrams to guide the setup process.

2.1 Initial Setup Steps:

1. **Unpacking:** Carefully unpack all components, ensuring no parts are missing. Note that minor blemishes or scratches on the table and legs are common for industrial equipment and do not affect performance.
2. **Table and Stand Assembly:** Follow the provided assembly manual to construct the table and stand. Ensure all bolts and fasteners are securely tightened for stability.
3. **Machine Head Placement:** Carefully place the machine head onto the designated area of the assembled table.
4. **Motor Installation:** Install the industrial clutch motor according to the instructions. Be aware that industrial clutch motors produce noise during operation.
5. **Power Connection:** Connect the machine to a standard 110V power outlet. Ensure the power switch is in the OFF position before connecting.
6. **Oiling:** Before first use, fill the oil reservoir with the recommended sewing machine oil. Refer to the machine's specific oiling points and procedures.
7. **Thread Spool Setup:** Place the four thread spools onto their respective pins.

3. OPERATION GUIDE

The JUKI MO-6714S is designed for efficient and precise overlock stitching. Understanding its key features will ensure optimal performance.

3.1 Threading the Machine:

Correct threading is crucial for proper stitch formation. Follow the numbered threading path indicated on the machine, typically starting with the upper looper, lower looper, and then the needles. Use high-quality threads suitable for industrial sewing.

3.2 Adjusting Tension:

Thread tension dials are located on the front of the machine. Adjust these dials to achieve a balanced stitch. Uneven stitches, looping, or puckering often indicate incorrect tension settings. Test on scrap fabric before sewing your project.

3.3 Differential Feed:

The differential feed mechanism allows you to adjust the feeding ratio of the front and rear feed dogs. This is essential for preventing stretching on knit fabrics or puckering on fine fabrics. Adjust the differential feed lever based on the fabric type:

- **For stretching fabrics (e.g., knits):** Set the differential feed to a higher ratio (e.g., 1.5 to 2.0) to stretch the fabric slightly as it feeds, preventing wavy seams.
- **For gathering fabrics:** Set the differential feed to a lower ratio (e.g., 0.7 to 0.8) to gather the fabric.
- **For normal fabrics:** Set the differential feed to 1.0.

3.4 Stitch Length Adjustment:

The stitch length can be adjusted to suit different fabric weights and desired seam finishes. The MO-6714S supports stitch lengths from 0.8mm to 4mm. Refer to the machine's manual for the exact location and method of adjustment.

4. MAINTENANCE

Regular maintenance is vital for the longevity and optimal performance of your JUKI MO-6714S machine. Adhere to the following guidelines:

- Daily Cleaning:** Use a soft brush and lint remover to clear lint and thread scraps from the looper area, feed dogs, and under the needle plate. Accumulation of lint can affect stitch quality and machine operation.
- Oiling:** Regularly oil all designated lubrication points as indicated in your machine's specific manual. Industrial machines require consistent oiling to reduce friction and wear. Use only high-quality sewing machine oil.
- Needle Replacement:** Replace needles frequently, especially when working with different fabric types or if you notice skipped stitches or thread breakage. Use only DC X 27 needles.
- Blade Maintenance:** The cutting blades should be kept sharp. If the fabric edges are not cut cleanly, the blades may need sharpening or replacement by a qualified technician.
- Professional Servicing:** Schedule periodic professional servicing by a certified technician to ensure all components are in good working order and to address any complex issues.

5. TROUBLESHOOTING

This section addresses common issues you might encounter and provides basic solutions. For more complex problems, consult a professional technician.

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect needle insertion, bent or dull needle, improper threading, incorrect tension.	Re-insert needle correctly, replace needle, re-thread machine, adjust tension.
Thread Breakage	High tension, poor quality thread, burrs on thread path, incorrect needle size.	Reduce tension, use quality thread, check thread path for rough spots, use correct needle.
Uneven Seams / Puckering	Incorrect differential feed setting, tension imbalance, dull cutting blades.	Adjust differential feed, balance thread tensions, check and replace blades if necessary.
Machine Not Starting	No power, motor issue, safety switch engaged.	Check power connection, consult technician for motor issues, ensure safety mechanisms are disengaged.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Model Number	MO-6714S
Machine Type	2-Needle, 4-Thread Industrial Overlock Sewing Machine
Max. Sewing Speed	7000 stitches/minute
Stitch Length	0.8 - 4mm
Needle Type	DC X 27

Feature	Specification
Power Requirement	110V (with industrial clutch motor)
Unit Dimensions (LxWxH)	Approximately 48 x 20 x 48 inches (assembled with table and stand)
Item Weight	250 pounds (machine head and components)
Manufacturer	JUKI
Color	White Resin
UPC	189684000404, 189684000503

7. WARRANTY AND SUPPORT

For information regarding the warranty period and terms for your JUKI MO-6714S machine, please refer to the documentation provided at the time of purchase or contact your authorized JUKI dealer or the seller directly. Standard protection plans may also be available for extended coverage.

For technical assistance, parts, or service inquiries, please reach out to the customer support provided by your seller or an authorized JUKI service center. When contacting support, have your machine's model number (MO-6714S) and serial number ready.

Note: This is industrial equipment. Industrial clutch motors produce noise. Table color may vary depending on availability.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question