

JUKI MO6716

Juki MO6716 5-Thread Overlock Sewing Machine Instruction Manual

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1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your Juki MO6716 5-Thread Overlock Sewing Machine. Please read this manual thoroughly before using the machine to ensure proper function and to prevent damage or injury. Keep this manual in a safe place for future reference.



Figure 1: Juki MO6716 5-Thread Overlock Sewing Machine. This image displays the complete industrial overlock machine with its stand and motor, ready for operation.

2. SAFETY INSTRUCTIONS

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

- **Power Supply:** Ensure the machine is connected to a grounded power outlet with the correct voltage. Disconnect power before cleaning, lubricating, or performing any maintenance.
- **Moving Parts:** Keep hands, hair, and loose clothing away from all moving parts, especially the needles, loopers, and cutting knives, during operation.
- **Needles:** Use only correct needle types and sizes. Replace bent or dull needles immediately.
- **Lighting:** Ensure adequate lighting in your work area to prevent eye strain and improve visibility.
- **Children and Pets:** Keep children and pets away from the machine during operation.
- **Maintenance:** Only qualified personnel should perform repairs or complex adjustments.

3. SETUP

3.1 Unpacking and Placement

Carefully remove the machine from its packaging. Place the machine on a sturdy, level industrial sewing machine table. Ensure sufficient space around the machine for comfortable operation and material handling.

3.2 Stand and Motor Assembly

The Juki MO6716 typically comes with a K.D. (knock-down) stand and motor. Follow the assembly instructions provided with the stand and motor kit. Ensure all bolts are securely tightened. Connect the motor to the machine's drive mechanism according to the motor's specific instructions. Verify the motor belt is properly tensioned and aligned.

3.3 Power Connection

Connect the machine's power cord to a suitable electrical outlet. Ensure the power switch is in the 'OFF' position before plugging in. The machine operates on standard industrial power requirements.

3.4 Threading the Machine

The Juki MO6716 is a 5-thread overlock machine. Proper threading is critical for correct stitch formation. Refer to the threading diagram usually located on the machine's cover or a separate threading guide. Thread the loopers first, then the needles. Ensure each thread passes through all tension discs and guides correctly. Incorrect threading will lead to skipped stitches or poor stitch quality.

1. Raise the presser foot and needles.
2. Follow the color-coded threading paths for each thread (upper looper, lower looper, safety stitch chain looper, left needle, right needle).
3. Ensure threads are seated firmly in the tension discs.
4. Pull threads under the presser foot and to the back of the machine.

4. OPERATING INSTRUCTIONS

4.1 Basic Operation

After threading, turn on the power switch. Place your fabric under the presser foot. Lower the presser foot. Use the foot pedal to control the machine speed. Start slowly and gradually increase speed as you become comfortable. Guide the fabric gently; do not force it.

4.2 Stitch Adjustments

- **Thread Tension:** Adjust the tension dials for each thread to achieve a balanced stitch. The ideal stitch

should lie flat with no loops on either side. Adjust in small increments.

- **Stitch Length:** Use the stitch length dial to change the number of stitches per inch. Shorter stitches are generally stronger.
- **Stitch Width:** Adjust the cutting width to control how much fabric is trimmed and the width of the overlock stitch.
- **Differential Feed:** This feature helps prevent stretching or puckering of fabric. Adjust the differential feed ratio according to your fabric type. A ratio greater than 1.0 will gather fabric, while less than 1.0 will stretch it.

4.3 Fabric Handling

Always feed fabric evenly into the machine. For curves, pivot the fabric slowly. When finishing a seam, sew off the edge of the fabric for a few stitches to create a thread chain, then trim the chain.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Juki MO6716.

5.1 Cleaning

Daily: Use a soft brush and vacuum cleaner to remove lint and thread scraps from the looper area, under the needle plate, and around the feed dogs. Lint buildup can affect stitch quality and machine performance.

5.2 Lubrication (Oiling)

Regularly: Apply a few drops of high-quality sewing machine oil to all designated oiling points, typically marked with red dots or specified in a lubrication diagram. Do not over-oil. Wipe away any excess oil to prevent staining fabric.

5.3 Needle Replacement

Replace needles frequently, especially when working with different fabric types or if you notice skipped stitches. Use the correct needle system and size for your machine (e.g., DCx27). Ensure the needle is inserted correctly with the scarf facing the looper.

5.4 Knife Replacement

The upper and lower knives will dull over time. Replace them when they no longer cut fabric cleanly. Refer to the service manual for detailed instructions on knife replacement or contact a qualified technician.

6. TROUBLESHOOTING

This section addresses common issues you might encounter:

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect threading, bent/dull needle, wrong needle type, incorrect tension.	Re-thread machine, replace needle, check needle type, adjust tension.
Thread Breakage	High tension, poor quality thread, burrs on thread path, incorrect threading.	Reduce tension, use quality thread, check thread path for obstructions, re-thread.
Fabric Puckering/Stretching	Incorrect differential feed setting, improper tension.	Adjust differential feed, balance thread tensions.

Problem	Possible Cause	Solution
Uneven Cutting	Dull knives, incorrect knife adjustment.	Replace knives, adjust knife position (refer to service manual).
Machine Not Starting	No power, motor issue, safety switch engaged.	Check power connection, inspect motor belt, ensure safety switches are disengaged.

7. SPECIFICATIONS

Key specifications for the Juki MO6716 5-Thread Overlock Sewing Machine:

- **Model Number:** MO6716
- **Stitch Type:** 5-Thread Overlock (Safety Stitch)
- **Brand:** JUKI
- **Power Source:** Corded Electric
- **Material:** Metal
- **ASIN:** B00APNE706
- **First Available:** December 17, 2012

8. WARRANTY AND SUPPORT

For specific warranty information, please refer to the warranty card included with your purchase or contact your authorized Juki dealer. Juki offers various protection plans for extended coverage. For technical support, service, or genuine Juki parts, please contact your local Juki distributor or the seller from whom you purchased the machine.