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JACK A3 UBT

JACK Industrial Sewing Machine A3 UBT

USER MANUAL

Introduction

This manual provides essential instructions for the safe and efficient operation, setup, maintenance, and troubleshooting of your JACK Industrial Sewing Machine A3 UBT. Please read this manual thoroughly before using the machine to ensure proper function and longevity.

Safety Precautions

- Always disconnect the machine from the power supply before cleaning, lubricating, or performing any maintenance.
- Keep fingers and loose clothing away from the needle and moving parts during operation.
- Ensure the machine is placed on a stable, level surface.
- Do not operate the machine if any parts are damaged or missing.
- This machine features a safety switch and high voltage protection. Do not bypass these safety features.

Setup

Careful assembly and initial setup are crucial for optimal performance.

1. Unpacking and Component Identification

Carefully remove all components from the packaging. Verify that all parts are present according to the packing list. Components typically include the machine head, table, stand, motor, foot pedal, and thread stand.



Figure 1: Complete JACK Industrial Sewing Machine A3 UBT setup, including the machine head, table, and stand. This image illustrates the overall assembly of the unit.

2. Assembling the Stand and Table

Assemble the machine stand according to the provided hardware. Securely attach the tabletop to the stand. Ensure all bolts are tightened to prevent wobbling during operation.

3. Mounting the Machine Head

Carefully place the machine head into the designated opening on the tabletop. Ensure it is seated correctly and secured with any provided fasteners.



Figure 2: Detailed view of the JACK A3 UBT sewing machine head. This shows the integrated control panel, thread spool pins, and the main body of the machine.

4. Installing the Foot Pedal and Motor

Connect the foot pedal linkage to the machine's mechanism under the table. Mount the motor (if separate) and connect it to the machine head and foot pedal as per the wiring diagram. Ensure all electrical connections are secure.

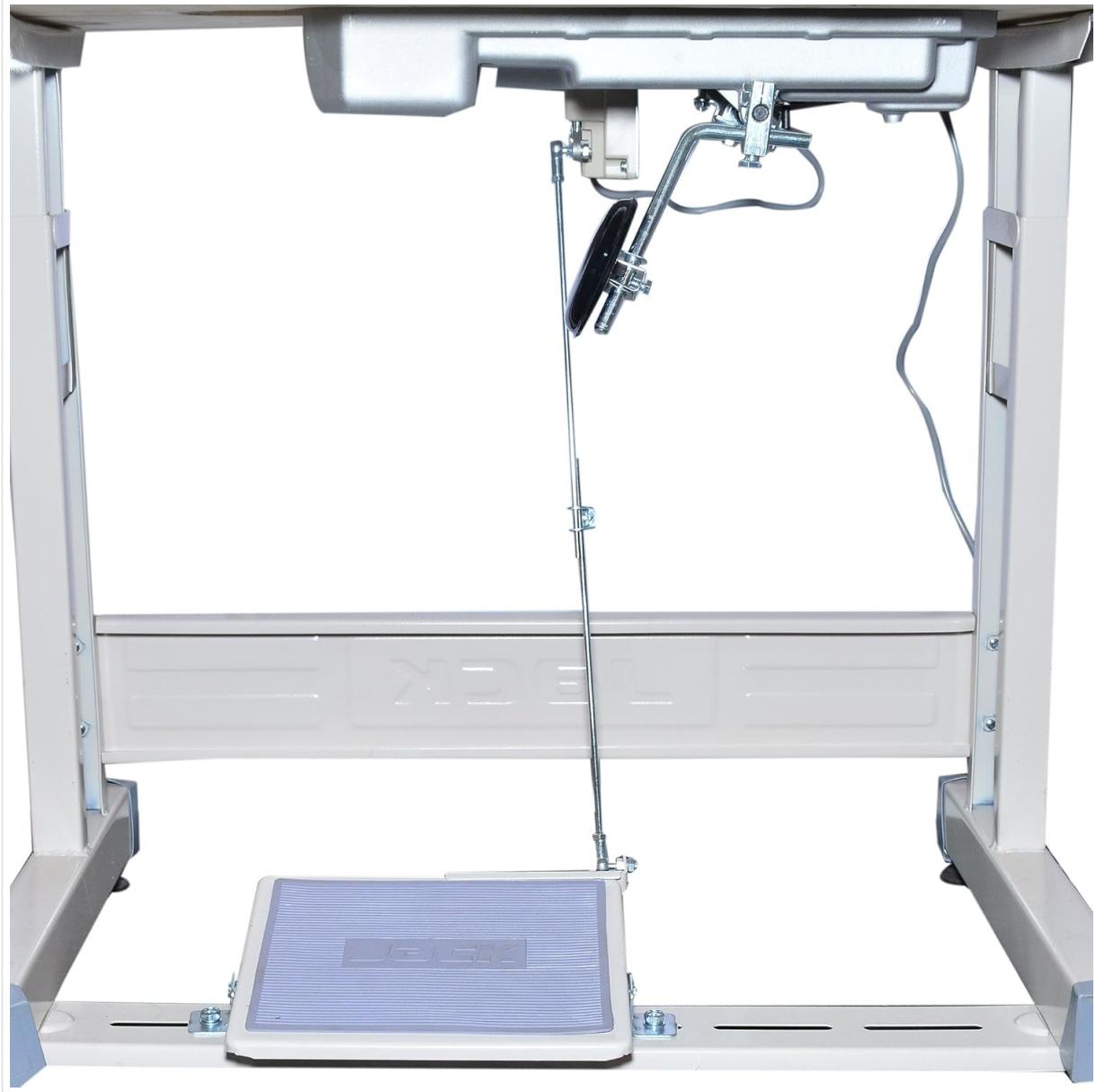


Figure 3: The foot pedal and the mechanical linkage system located beneath the sewing machine table. This mechanism controls the machine's speed and operation.

5. Power Connection

Plug the machine's power cord into a suitable electrical outlet. Ensure the power supply matches the machine's requirements.

Operating Instructions

Follow these steps for proper operation of your sewing machine.

1. Threading the Machine

- Upper Thread:** Place a spool of thread on the thread stand. Guide the thread through the tension discs and take-up lever, following the numbered path indicated on the machine. Thread the needle from front to back.
- Bobbin Winding:** Place an empty bobbin on the bobbin winder spindle. Guide the thread from the spool through the bobbin tension guide and around the bobbin. Engage the winder and press the foot pedal to wind the bobbin.
- Bobbin Insertion:** Open the bobbin case cover. Insert the wound bobbin into the bobbin case,

ensuring the thread feeds correctly. Close the bobbin case cover.



Figure 4: Close-up view of the needle, presser foot, and feed dog assembly. This area is critical for threading, needle replacement, and fabric feeding.

2. Needle Installation

Ensure the machine is off. Loosen the needle clamp screw, remove the old needle (if any), and insert a new needle with the flat side facing the back. Tighten the screw securely.

3. Adjusting Tension

The thread tension dial controls the balance between the upper and bobbin threads. Adjust as needed to achieve a balanced stitch. A balanced stitch shows equal thread on both sides of the fabric.

4. Using the Control Panel

The JACK A3 UBT features an easy and smart panel for various settings. Refer to the on-screen indicators for stitch length, speed, and other functions. Use the buttons to navigate and select desired options.



Figure 5: The digital control panel of the JACK A3 UBT, displaying various settings and indicators. The stitch length adjustment dial is also visible.

5. Basic Stitching

Place fabric under the presser foot. Lower the presser foot. Gently press the foot pedal to start sewing. Control speed with pedal pressure. Guide the fabric smoothly without forcing it.

Maintenance

Regular maintenance ensures the longevity and smooth operation of your machine.

1. Cleaning

After each use, clean lint and dust from the bobbin area, feed dogs, and tension discs using a small brush. Periodically remove the needle plate for a more thorough cleaning of the feed dog area.

2. Lubrication

Refer to the machine's lubrication points (usually marked with red dots or arrows). Apply a few drops of high-quality sewing machine oil to these points regularly, especially after extended use. Wipe off any excess oil.

3. Needle Replacement

Replace needles frequently, especially when sewing different types of fabric or if the needle shows signs of bending or dullness. A dull needle can cause skipped stitches and fabric damage.

Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect needle, bent needle, improper threading, incorrect tension.	Replace needle, re-thread machine, adjust tension.
Thread Breakage	High tension, poor quality thread, burrs on needle/machine parts, incorrect threading.	Reduce tension, use quality thread, check for burrs, re-thread.
Uneven Stitches	Incorrect tension, improper fabric feeding.	Adjust tension, ensure fabric is fed smoothly.
Machine Not Starting	Power not connected, safety switch engaged, motor issue.	Check power cord, ensure safety switch is disengaged, consult service if motor fails.

Specifications

- Brand:** JACK
- Model:** A3 UBT
- Item Part Number:** CC642
- Application:** Textile Industry and House Purpose
- Item Weight:** 60 kg
- Features:** Safety switch, High voltage protection, Easy and smart panel, Standby Condition

Warranty and Support

For warranty information and technical support, please refer to the documentation provided at the time of purchase or contact your authorized JACK dealer. Keep your purchase receipt as proof of purchase.