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> [JACK A2B Digital Industrial Sewing Machine User Manual](#)

JACK A2B

JACK A2B Digital Industrial Sewing Machine User Manual

Model: A2B

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1. PRODUCT OVERVIEW

The JACK A2B Digital Industrial Sewing Machine is engineered for high-performance and reliability in professional and manufacturing environments. This machine integrates advanced digital technology with robust construction, making it suitable for a wide range of heavy-duty sewing applications.

Key features include:

- **Durable Construction:** Built with a cast aluminum frame and stainless steel base for long-term use.
- **High-Speed Operation:** Capable of up to 5500 stitches per minute, with adjustable stitch length up to 6mm.
- **Advanced Digital Features:** Includes automatic needle threading, an integrated stitch regulator, and needle up/down functionality for precise control.
- **Versatile Applications:** Ideal for apparel manufacturing, quilting, home decor, and heavy fabric sewing.
- **Enhanced Visibility:** Equipped with a bright LED light to illuminate the work area.



Figure 1: The JACK A2B Digital Industrial Sewing Machine.

2. SAFETY INFORMATION

Read all instructions before operating the machine. Failure to follow safety guidelines may result in injury or damage to the machine.

- Always disconnect the machine from the power supply before cleaning, servicing, or when not in use.
- Keep fingers and hands away from the needle, presser foot, and other moving parts during operation.
- Do not operate the machine with damaged cords or if it has been dropped or damaged.
- Ensure the machine is placed on a stable, level surface.
- Use only recommended accessories and attachments.
- Keep children and pets away from the machine during operation.

3. SETUP GUIDE

3.1 Unpacking and Placement

Carefully remove all packaging materials. Place the sewing machine on a sturdy, level table or stand. Ensure adequate space around the machine for comfortable operation and material handling.

3.2 Power Connection

Connect the power cord to a grounded electrical outlet. The machine operates on a corded electric power source. Verify that the voltage matches your local power supply.

3.3 Initial Checks

- Check that the needle is correctly installed and not bent.
- Ensure the bobbin is properly wound and inserted.

- Verify that all covers and guards are securely in place.

4. OPERATING INSTRUCTIONS

4.1 Control Panel Overview

The digital control panel provides access to various machine functions and settings. Refer to the image below for button identification.



Figure 2: Digital Control Panel.

- **Digital Display:** Shows current stitch length, speed, and error codes.
- **Speed Adjustment:** Use '+' and '-' buttons to increase or decrease sewing speed.
- **Stitch Length Adjustment:** Use dedicated buttons to set stitch length up to 6mm.
- **Needle Up/Down:** Controls the final resting position of the needle.
- **Automatic Thread Trimmer:** Activates the automatic thread cutting function.

4.2 Threading the Machine

Follow these steps to thread the upper thread:

1. Place the thread spool on the spool pin.
2. Guide the thread through the thread guides as indicated in the machine's physical markings.
3. Pass the thread through the tension discs.
4. Thread the take-up lever.
5. Use the automatic needle threader or manually thread the needle from front to back.

4.3 Winding the Bobbin

The machine features an integrated bobbin winder for convenience.

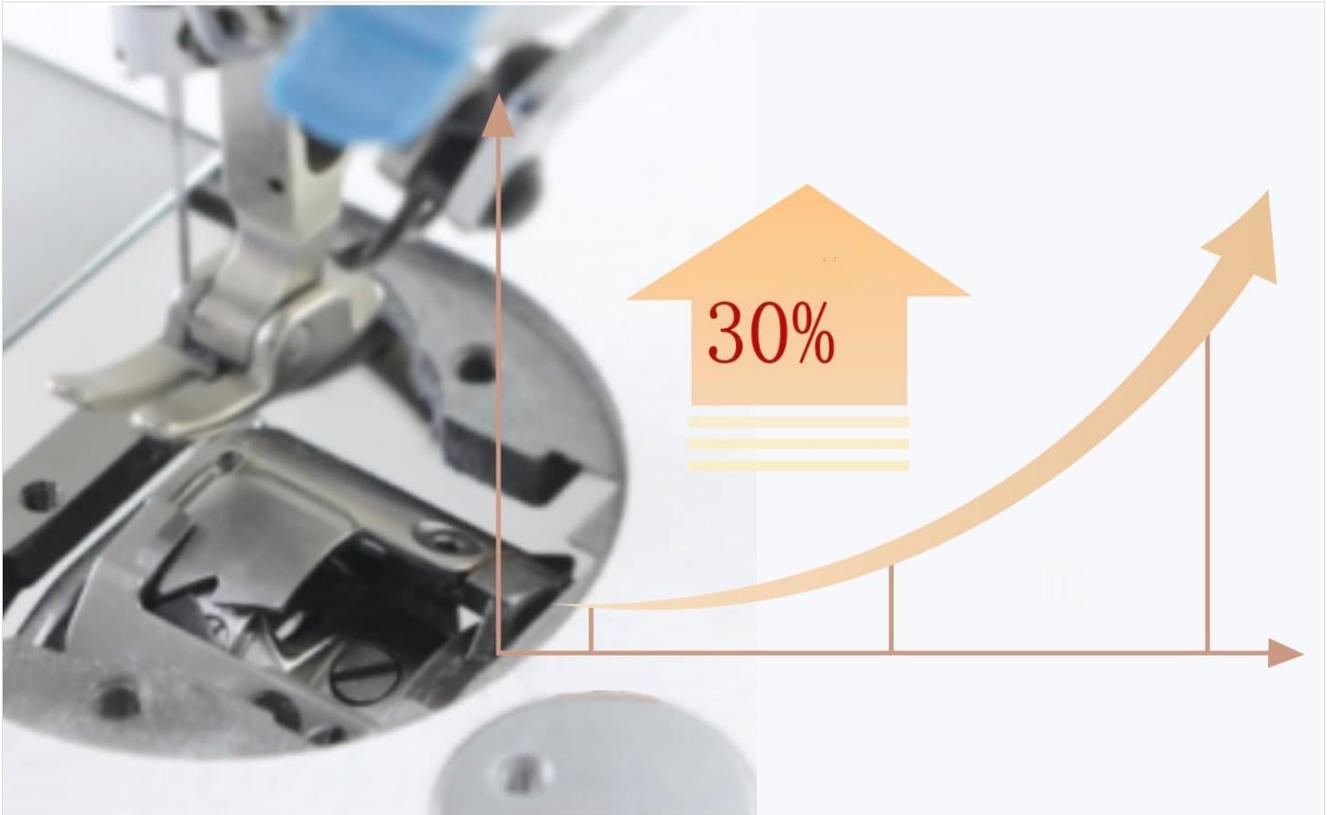


Figure 3: Bobbin Winder.

1. Place an empty bobbin onto the bobbin winder spindle.
2. Guide the thread from the spool through the bobbin winding tension disc.
3. Wrap the thread a few times around the bobbin.
4. Push the bobbin winder spindle towards the right to engage.
5. Start the machine; the bobbin will wind automatically. Stop when full.

4.4 Using the LED Light

The integrated LED light illuminates the sewing area, improving visibility and reducing eye strain.

			 (mm)	 (mm)	 (S.p.m)	A	M	H	 (mm)	NW/GW (kg)
A2B-C	DB×1 11-18#	2	5	5-13	5000	✓	✓		645×248×550	30/36.5kg
A2B-CH	DP×5 18-21#	2	5	5-13	3500			✓	645×248×550	30/36.5kg
A2B-CH-7	DP×5 18-21#	2	7	5-13	3500		✓		645×248×550	30/36.5kg
A2B-CH-M	DB×1 11-18#	2	5	5-13	5000	✓	✓		645×248×550	30/36.5kg

Figure 4: LED Work Light.

The LED light can typically be turned on or off via a dedicated button on the machine head or control panel, or it may activate automatically when the machine is in operation.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your sewing machine.

5.1 Cleaning

- **Daily:** Remove lint and dust from the bobbin case, feed dogs, and needle plate area using a small brush.
- **Weekly:** Clean the entire machine surface with a soft, dry cloth.
- **Monthly:** For thorough cleaning, consult a qualified technician or refer to the detailed cleaning instructions in the full service manual.

5.2 Lubrication

Industrial sewing machines require regular lubrication. Refer to the machine's lubrication points diagram in the comprehensive manual. Use only high-quality sewing machine oil. Over-oiling can cause issues.

5.3 Needle Replacement

Replace the needle regularly, especially if it becomes bent, dull, or if you experience skipped stitches. Use the correct needle type (DBx1 11-18#) for your fabric and thread.



Figure 5: Needle and Presser Foot Area.

6. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect needle, bent needle, improper threading, wrong tension.	Replace needle, re-thread machine, adjust tension.
Thread Breakage	High tension, poor quality thread, burrs on needle plate, incorrect threading.	Reduce tension, use quality thread, check for burrs, re-thread.
Uneven Stitches	Incorrect tension, worn feed dogs, inconsistent fabric feeding.	Adjust tension, clean feed dogs, ensure consistent fabric handling.
Machine Not Starting	No power, safety switch engaged, motor issue.	Check power connection, ensure safety switches are disengaged, consult technician.

6.1 Error Codes

The digital display may show error codes to indicate specific issues.

Figure 6: E-04 High Voltage Alarm.

- **E-04 (High Voltage Alarm):** Indicates an issue with the power supply or internal voltage regulation. Disconnect power, wait a few minutes, and reconnect. If the error persists, contact support.
- For other error codes, refer to the comprehensive service manual or contact customer support.

7. SPECIFICATIONS

Below are the general specifications for the JACK A2B Digital Industrial Sewing Machine.

Feature	Detail
Brand	JACK
Model	A2B
Color	White
Item Weight	65 Kilograms
Material	Solid Alloy
Product Dimensions (LxWxH)	60D x 60W x 30H cm
Power Source	Corded Electric
Electric Operation	Yes
Max. Stitch Speed	5500 stitches per minute
Max. Stitch Length	6 mm
Needle Type	DBx1 11-18#
Presser Foot Lift	5-13 mm



Figure 7: Detailed Model Specifications.

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The JACK A2B Digital Industrial Sewing Machine comes with a **3-year warranty**. This warranty covers manufacturing defects and ensures ongoing support and maintenance if required. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty service, please contact your authorized JACK dealer or the manufacturer's customer support. Contact details can typically be found on the product packaging or the official JACK website.

