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> [VALSEW Speedway SW9000-D4 Industrial Lockstitch Sewing Machine User Manual](#)

VALSEW SW9000 D4

VALSEW Speedway SW9000-D4 Industrial Lockstitch Sewing Machine User Manual

High-Speed Single Needle Lockstitch Direct Drive Under Trimmer Automatic Foot Lifter

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1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your VALSEW Speedway SW9000-D4 industrial lockstitch sewing machine. This high-speed, single-needle machine features a direct-drive servo motor, automatic under trimmer, and automatic foot lifter, designed for professional sewing applications. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent damage or injury.



2. SAFETY INSTRUCTIONS

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

- Ensure the machine is unplugged from the power source before performing any maintenance, cleaning, or when changing needles or bobbins.
- Keep fingers and hands away from the needle, presser foot, and other moving parts during operation.
- Do not operate the machine with damaged wiring or if the power cord is frayed.
- Use only genuine replacement parts and accessories.
- Keep the work area well-lit and free from clutter.
- Do not allow children or untrained individuals to operate the machine.
- Wear appropriate safety glasses to protect your eyes from flying debris.
- Ensure the machine is properly grounded.

3. COMPONENTS OVERVIEW

Familiarize yourself with the main components of your sewing machine:



Figure 2: Close-up view of the integrated control panel and upper thread tension dial. The control panel allows for adjustment of various sewing parameters, while the tension dial regulates the upper thread tension.



Figure 3: Detailed view of the needle bar, presser foot, and feed dogs. This area is crucial for fabric feeding and stitch formation.

- **Machine Head:** The main body containing the sewing mechanisms.
- **Integrated Control Panel:** Digital interface for setting stitch parameters, needle position, and activating automatic functions.
- **Thread Stand:** Holds the spools of thread.
- **Tension Dials:** Adjusts the tension of the upper thread.
- **Needle Bar:** Holds the needle.
- **Presser Foot:** Holds the fabric firmly against the feed dogs.
- **Feed Dogs:** Moves the fabric under the needle.
- **Bobbin Winder:** Winds thread onto the bobbin.
- **Handwheel:** Manually raises and lowers the needle.
- **LED Light:** Illuminates the sewing area.

4. SETUP

Professional assembly may be required for the table and machine head. Follow these steps for initial setup:

4.1 Unpacking and Assembly

The machine comes in multiple packages, typically including the machine head and the table/stand components.

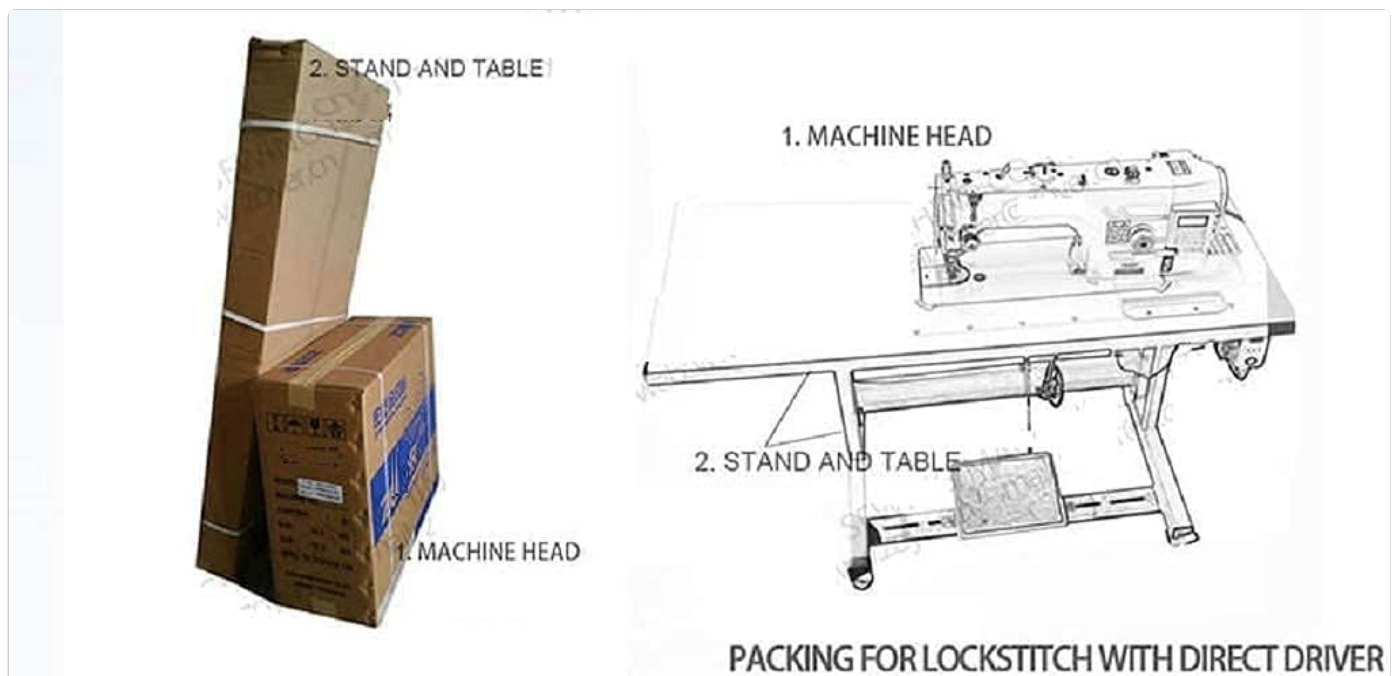


Figure 4: Illustration showing the typical packaging for the machine head and the stand/table components.



Figure 5: The industrial sewing machine table stand, which requires assembly before mounting the machine head.

1. Carefully unpack all components, ensuring no parts are missing. Refer to the packing list.
2. Assemble the sewing machine table stand according to the separate assembly instructions provided with the table.
3. Mount the machine head securely onto the assembled table. Ensure all bolts are tightened.
4. Connect the foot pedal and any other external components as instructed.

4.2 Power Connection

- Ensure the machine's power switch is in the OFF position.
- Connect the power cord to a grounded 110V electrical outlet.
- The machine features an energy-saving direct-drive servomotor, integrating the control box and operation panel with the machine head.

4.3 Threading the Machine

Proper threading is crucial for optimal stitch quality.

1. **Upper Thread:** Place the thread spool on the thread stand. Guide the thread through all guides, tension discs, and the take-up lever, then through the needle eye.
2. **Bobbin Winding:** Place an empty bobbin on the bobbin winder spindle. Guide the thread from the spool through the bobbin winder tension disc and onto the bobbin. Engage the winder and start the machine to wind the bobbin. Stop

when full.

3. **Bobbin Insertion:** Open the bobbin case cover. Insert the wound bobbin into the bobbin case, ensuring the thread feeds correctly. Close the cover.

4.4 Needle Installation

- Turn off the power.
- Loosen the needle clamp screw.
- Insert the new needle with the flat side facing the back of the machine, pushing it up as far as it will go.
- Tighten the needle clamp screw securely.

5. OPERATING INSTRUCTIONS

5.1 Control Panel Functions

The integrated control panel allows for precise control over various sewing functions:

- **Stitch Length Adjustment:** Use the '+' and '-' buttons to set the desired stitch length.
- **Needle Position (Up/Down):** Set the needle to stop in the up or down position after sewing.
- **Automatic Reverse-Feed Stitching:** Program the machine to automatically perform reverse stitches at the beginning and/or end of a seam for reinforcement.
- **Automatic Under Trimmer:** Activates the automatic thread cutting function at the end of a seam.
- **Automatic Foot Lifter:** Engages the automatic presser foot lifting mechanism.
- **Soft Start:** Provides a gradual increase in sewing speed at the start of a seam.
- **Constant Dimension Sewing:** Maintains consistent stitch dimensions for specific patterns.
- **Pocket Sewing:** Specialized function for pocket creation.
- **Multi-Layer Stitching:** Optimized settings for sewing through multiple layers of fabric.

5.2 Basic Sewing Operation

1. Turn on the power switch. The LED light will illuminate the sewing area.
2. Place the fabric under the presser foot.
3. Lower the presser foot using the knee lifter or the automatic foot lifter function.
4. Gently press the foot pedal to start sewing. The direct-drive servo motor provides precise speed control.
5. Guide the fabric smoothly. Do not pull or push the fabric forcefully.
6. To stop, release the foot pedal. If the automatic under trimmer is activated, the threads will be cut automatically.

5.3 Adjustments

- **Thread Tension:** Adjust the upper thread tension dial (Figure 2) to achieve balanced stitches. The bobbin tension can be adjusted via a small screw on the bobbin case.
- **Stitch Length:** Use the control panel to increase or decrease stitch length as needed for different fabrics and applications.

6. MAINTENANCE

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

6.1 Cleaning

- Always unplug the machine before cleaning.

- Use a soft brush or vacuum cleaner to remove lint and dust from the feed dogs, bobbin area, and under the needle plate.
- Wipe the exterior surfaces with a soft, damp cloth. Avoid harsh chemicals.

6.2 Lubrication

The Speedway SW9000-D4 features an automatic lubrication system. Ensure the oil reservoir is filled to the appropriate level with recommended sewing machine oil. Check the oil level regularly and refill as necessary.

7. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Skipped Stitches	Incorrect needle size/type, bent needle, improper threading, incorrect needle insertion.	Change needle, re-thread machine, ensure needle is inserted correctly.
Thread Breakage	High thread tension, poor quality thread, burrs on needle plate/hook, incorrect threading.	Reduce tension, use quality thread, check for burrs, re-thread.
Uneven Stitches	Incorrect thread tension, worn needle, inconsistent fabric feeding.	Adjust tension, replace needle, ensure smooth fabric guidance.
Machine Not Starting	No power, safety switch engaged, motor issue.	Check power connection, ensure safety features are disengaged, consult service if motor fails.
Noise/Vibration	Loose parts, lack of lubrication, foreign object.	Check for loose screws, ensure oil reservoir is full, inspect for obstructions.

If problems persist after attempting these solutions, please contact qualified service personnel.

8. SPECIFICATIONS

Feature	Detail
Model	Speedway SW9000-D4
Type	High-Speed Single Needle Lockstitch Industrial Sewing Machine
Motor	Direct Drive Servo Motor (Energy-saving)
Power Source	Corded Electric, 110V
Automatic Functions	Under Trimmer, Foot Lifter, Reverse-Feed Stitching, Back Tack, Needle Positioner
Hook Type	Japanese Hook
Lubrication	Automatic
Additional Features	Built-in Bobbin Winder, LED Light, Soft Start, Constant Dimension Sewing, Multi-Layer Stitching
UPC	363307300007

9. WARRANTY & SUPPORT

For warranty information, please refer to the documentation provided at the time of purchase. Warranty terms and conditions may vary depending on the retailer and region.

For technical support, service, or to order replacement parts, please contact your authorized VALSEW dealer or the point of purchase. Ensure you have your machine's model number (SW9000-D4) and serial number ready when contacting support.

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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

Answered questions about this manual

How do I restart the VALSEW Speedway SW9000-D4 sewing machine or fix Error 14?

Based on the manual for the VALSEW Speedway SW9000-D4, there is no specific "Error 14" listed in the standard troubleshooting table. However, industrial sewing machines with integrated direct-drive servo motors (like the SW9000-D4, which...

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