

HIROBOT FHSM-520A

HIROBOT FHSM-520A Electric Sewing Machine User Manual

Model: FHSM-520A

1. INTRODUCTION

Thank you for choosing the HIROBOT FHSM-520A Electric Sewing Machine. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new sewing machine. Designed for both beginners and enthusiasts, this portable machine offers 16 built-in stitch patterns, adjustable speed, and a reverse sewing function, making it suitable for various home DIY projects and repairs. Please read this manual thoroughly before initial use to ensure optimal performance and longevity of your machine.

2. SAFETY INSTRUCTIONS

To prevent accidents and ensure safe operation, please adhere to the following safety guidelines:

- Always unplug the machine from the power outlet when not in use, before cleaning, or when performing any maintenance.
- Keep the machine away from water or damp environments. Do not operate with wet hands.
- Ensure the power cord is not damaged. Do not operate the machine if the cord or plug is damaged.
- Keep fingers away from the needle, handwheel, and other moving parts during operation.
- Supervise children closely if they are near the machine. This appliance is not intended for use by persons with reduced physical, sensory, or mental capabilities unless supervised.
- Use only the power adapter supplied with the machine.
- Place the machine on a stable, flat surface during operation.

3. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- HIROBOT FHSM-520A Electric Sewing Machine
- Foot Pedal

- Power Adapter
- Bobbins
- Threads
- Needles
- Various Presser Feet
- User Manual



This image displays the HIROBOT FHSM-520A Electric Sewing Machine along with its complete set of accessories, including the foot pedal, power adapter, bobbins, threads, needles, and various presser feet. The machine is white with mint green accents.

4. PRODUCT OVERVIEW

Familiarize yourself with the main components of your sewing machine:

- **Stitch Selector Dial:** Used to choose from 16 built-in stitch patterns.
- **Thread Tension Dial:** Adjusts the tension of the upper thread.
- **Reverse Stitch Button:** Engages reverse sewing for reinforcement.

- **Speed Switch:** Toggles between low and high sewing speeds.
- **Handwheel:** Manually raises and lowers the needle.
- **Presser Foot Lifter:** Raises and lowers the presser foot.
- **Needle Clamp Screw:** Secures the needle in place.
- **Bobbin Winder Spindle:** Used for winding thread onto bobbins.
- **Foot Pedal Port:** Connects the foot pedal for speed control.
- **Power Port:** Connects the power adapter.

5. SETUP

5.1 Power Connection

1. Ensure the machine's power switch is in the 'OFF' position.
2. Insert the power adapter plug into the power port on the machine.
3. Plug the adapter into a suitable electrical outlet.

5.2 Foot Pedal Connection

For foot-controlled operation, insert the foot pedal plug into the designated foot pedal port on the machine.

5.3 Bobbin Winding

1. Place a spool of thread on the spool pin.
2. Guide the thread through the bobbin winder tension disc.
3. Wind the thread a few times manually around an empty bobbin.
4. Place the bobbin onto the bobbin winder spindle and push it to the right.
5. Turn on the machine and gently press the foot pedal or use the hand switch to start winding. Stop when the bobbin is full.
6. Cut the thread and remove the bobbin.

5.4 Threading the Machine

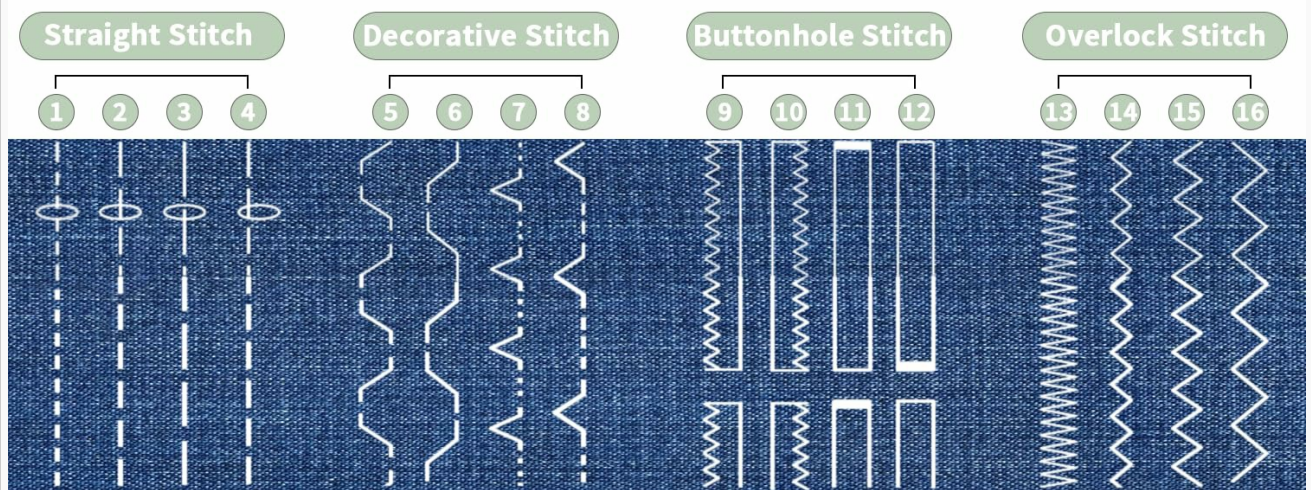
Correct threading is crucial for proper stitch formation. Please follow the threading instructions provided in the detailed diagram or video (if available) that came with your machine. Incorrect threading can lead to skipped stitches, thread breakage, or machine jams.

6. OPERATING INSTRUCTIONS

6.1 Stitch Selection

Your HIROBOT FHSM-520A machine features 16 built-in stitch patterns. Rotate the stitch selector dial to choose your desired stitch. The available stitches include straight, zigzag, blind hem, and various decorative patterns.

Note: Stitches 9, 10, 11, and 12 are specifically designed for buttonholes and cannot be used for regular sewing. For general and decorative sewing, select other stitch patterns.



A visual guide illustrating the 16 built-in stitch patterns of the HIROBOT FHSM-520A. These include straight stitches (1-4), decorative stitches (5-8), buttonhole stitches (9-12), and overlock stitches (13-16). Each stitch type is demonstrated on a fabric swatch.

6.2 Adjusting Thread Tension

The upper thread tension needs to be adjusted according to the fabric type and thread thickness to achieve balanced stitches. Rotate the thread tension dial to increase or decrease tension. A balanced stitch will have both upper and bobbin threads meeting evenly between the fabric layers.

General recommendations:

- Chiffon: Tension 2-3
- Pure Cotton: Tension 3-4
- Linen: Tension 4-5
- Denim: Tension 4-5

These are reference suggestions; always test on a scrap piece of your fabric.

Adjust The Upper Thread Tension According to Different Fabrics



Adjustable tension for smoother thread on the fabric



Note: Because the density of fabrics is different, the above suggestions are for reference only. In fact, please adjust the tension according to the sewing effect. When the upper thread is too loose, please increase the tension. When the upper thread is too tight, please reduce the tension

This image illustrates the adjustable upper thread tension dial, crucial for achieving smooth stitches on various fabric types. Recommended tension settings are provided for chiffon (2-3), pure cotton (3-4), linen (4-5), and denim (4-5), emphasizing that adjustments may be needed based on fabric density.

6.3 Reverse Sewing Function

To reinforce stitches at the beginning and end of a seam, use the reverse sewing function. Press and hold the reverse button to sew backward. Release the button to resume forward sewing. This function is typically available for straight stitches (1-4).

Reverse Sewing Function

Long press the reverse button to immediately reverse sew, and release the button to immediately forward sew (Reverse sewing function is only available for 1-4 stitches)



This image highlights the reverse sewing function, activated by pressing a button. It shows how the machine can sew backward for reinforcement, specifically for stitches 1-4. The design also includes a free arm for sewing sleeves and cuffs.

6.4 Speed Control

The machine offers two ways to control sewing speed:

- **Speed Switch:** Use the 'L' (Low) and 'H' (High) switch on the machine for a constant speed.
- **Foot Pedal:** For variable speed control, connect the foot pedal. Gentle pressure results in slower stitching, while firmer pressure increases the speed.

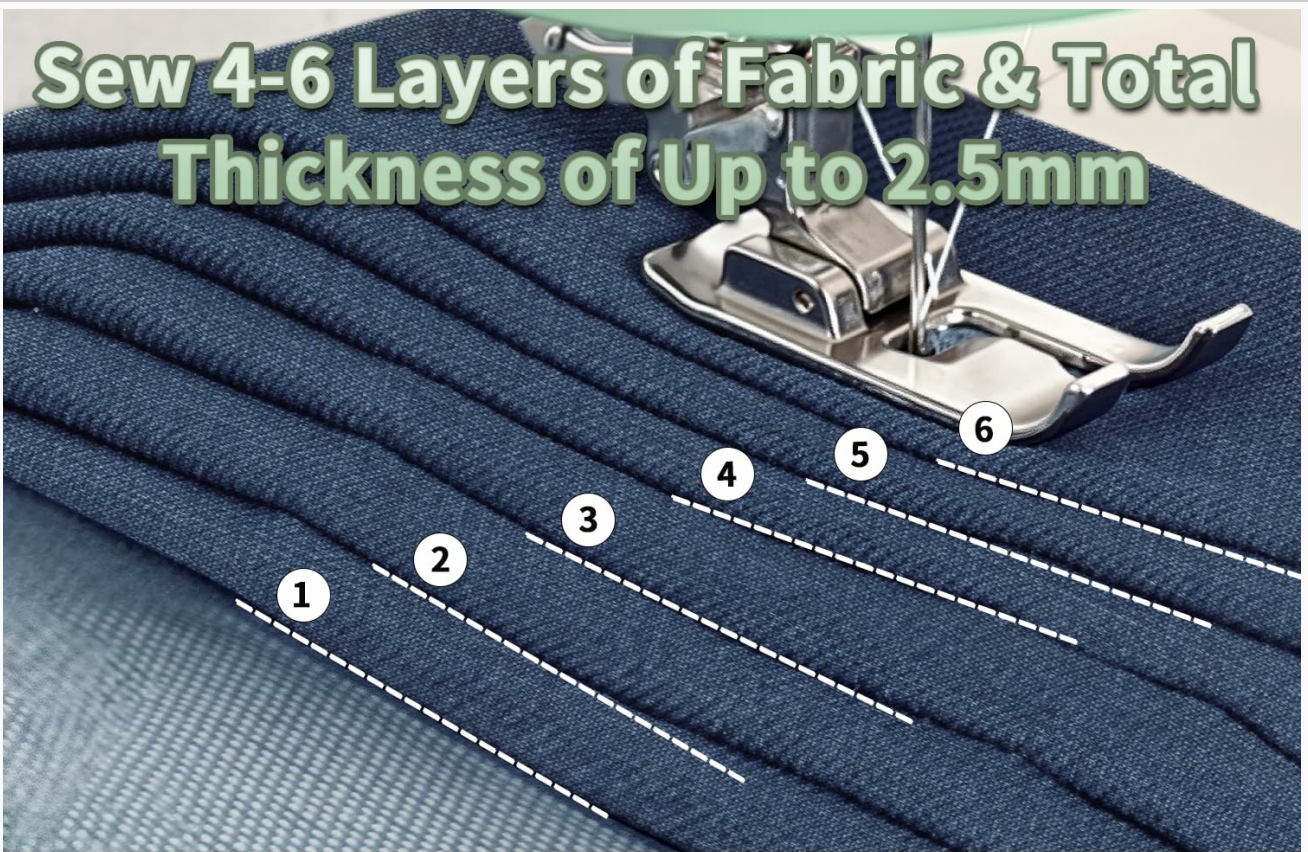
6.5 Fabric Compatibility

The HIROBOT FHSM-520A is designed to sew a variety of fabrics, from lightweight cotton to heavier denim. It can handle 4-6 layers of fabric with a total thickness of up to 2.5mm.

Supported Fabrics: Pure Cotton, Denim, Linen, Oxford, Mixed Yarn, Chemical Fiber, Modal, Corduroy.

Important: Avoid sewing excessively thin fabrics directly. If necessary, place a layer of A4 paper under the thin fabric to increase its thickness and prevent it from being pulled into the needle plate.

Sew 4-6 Layers of Fabric & Total Thickness of Up to 2.5mm



1



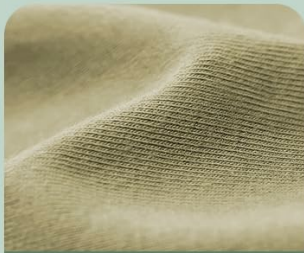
2



Support 1 needle 1 thread and 2 needles 2 threads functions

This image demonstrates the machine's capability to sew through 4-6 layers of fabric, up to a total thickness of 2.5mm. It also highlights the support for both 1-needle, 1-thread and 2-needle, 2-thread functions.

Easily Sew Various of Fabrics



Pure Cotton



Denim



Linen



Oxford



Mixed Yarn



Chemical Fiber



Modal



Corduroy

Please sew fabrics of normal thickness, do not sew fabrics that are too thin. If must sew it, please add a layer of A4 paper under the thin fabric to increase the thickness of the fabric

A collage of various fabric types that the HIROBOT FHSM-520A can sew, including Pure Cotton, Denim, Linen, Oxford, Mixed Yarn, Chemical Fiber, Modal, and Corduroy. A note advises against sewing overly thin fabrics without adding a layer of A4 paper for support.

7. MAINTENANCE

Regular maintenance ensures the smooth operation and extends the lifespan of your sewing machine.

- **Cleaning:** Regularly clean lint and dust from the bobbin area and feed dogs using a small brush. Always unplug the machine before cleaning.
- **Needle Replacement:** Replace needles frequently, especially when they become dull, bent, or if you notice skipped stitches. Use the correct needle type and size for your fabric.
- **Storage:** When not in use, store the machine in a dry, dust-free environment.

Solid & Scientific Structure



High Quality ABS Housing



BIS Certified Adapter



280S Motor



Metal & ABS Frame

This image provides an internal view of the sewing machine, showcasing its 'Solid & Scientific Structure'. Key components highlighted include the high-quality ABS housing, BIS Certified Adapter, 280S Motor, and the metal & ABS frame, indicating durable construction.

8. TROUBLESHOOTING

If you encounter issues with your sewing machine, refer to the following common problems and solutions:

- **Thread Breaking:** Check if the machine is threaded correctly (both upper and bobbin threads). Ensure the thread tension is not too high. Use good quality thread. Replace a bent or dull needle.
- **Skipped Stitches:** This is often caused by an incorrect or dull needle. Ensure the needle is inserted correctly and replace it if necessary. Check upper threading and tension.
- **Machine Jamming:** Incorrect threading, especially of the bobbin, is a common cause. Remove all threads, clean the bobbin area, and re-thread carefully following the instructions. Ensure the fabric is not too thick for the machine.
- **Uneven Stitches:** Adjust the upper thread tension. Ensure the bobbin is wound evenly.
- **Machine Not Starting:** Check if the power adapter is securely plugged in and the power switch is 'ON'. Ensure the foot pedal is connected correctly if using it.

For persistent issues, please refer to the contact information in the 'Warranty and Support' section.

9. SPECIFICATIONS

Feature	Specification
Brand	HIROBOT
Model Number	FHSM-520A
Built-in Stitches	16
Reverse Stitch	Yes (for stitches 1-4)
Speed Control	Adjustable (Low/High switch, Foot Pedal)
Maximum Fabric Thickness	Up to 2.5mm (4-6 layers)
Color	Green
Product Dimensions	12D x 28W x 24H Centimeters (4.72D x 11.02W x 9.45H Inches)
Item Weight	2 kg 200 g (4.85 lbs)
Manufacturer	Guangzhou Hengguan Mechanical & Electrical Co., Ltd
Included Components	Sewing Machine



An image displaying the physical dimensions of the HIROBOT FHSM-520A sewing machine. The measurements are 27.4 cm (10.79 inches) in width, 23.75 cm (9.35 inches) in height, and 11.55 cm (4.55 inches) in depth.

10. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please contact the manufacturer or importer directly. Keep your purchase receipt as proof of purchase.

- **Manufacturer:** Guangzhou Hengguan Mechanical & Electrical Co., Ltd
- **Importer:** CHD TECH Pvt Ltd.
- **Phone:** +91 8793566784
- **Email:** amzftk@gmail.com