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## Brother PQ1600S

# Brother PQ1600S High-Speed Straight Stitch Sewing & Quilting Machine Instruction Manual

Model: PQ1600S

## INTRODUCTION

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This manual provides essential information for the safe and efficient operation, maintenance, and care of your Brother PQ1600S High-Speed Straight Stitch Sewing & Quilting Machine. Please read this manual thoroughly before using the machine and keep it for future reference.

## IMPORTANT SAFETY INSTRUCTIONS

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To reduce the risk of electric shock, burns, fire, or injury to persons:

- Always unplug the machine from the electrical outlet immediately after using and before cleaning, making any adjustments, or servicing.
- Do not allow to be used as a toy. Close attention is necessary when this machine is used by or near children.
- Use this machine only for its intended use as described in this manual. Use only accessories recommended by the manufacturer.
- Never operate this machine if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water.
- Keep the power cord away from heated surfaces. Do not pull or carry by cord or use cord as a handle.
- Never drop or insert any object into any opening.
- Do not use outdoors.
- Do not operate where aerosol (spray) products are being used or where oxygen is being administered.
- To disconnect, turn all controls to the off position, then remove plug from outlet.
- This product is intended for sale only in the US at 120 volts. Any other use or sale may void the warranty.

## UNPACKING AND SETUP

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### 1. Unpacking the Machine

Carefully remove the machine from its packaging. Ensure all components and accessories are present. Retain

packaging for storage or transport.

## 2. Placing the Machine

Place the sewing machine on a stable, level surface. Ensure there is adequate space around the machine for comfortable operation.



Image: The Brother PQ1600S High-Speed Straight Stitch Sewing & Quilting Machine, ready for setup.

## 3. Connecting Power

Connect the power cord to the machine and then to a 120-volt electrical outlet. Ensure the machine is switched off before connecting.

## 4. Attaching the Extension Table

For larger projects like quilting, attach the extra-large extension table (11.1" x 23.3") to expand your workspace. This table provides support and helps manage bulky fabrics.



SEWING

## High-Speed Straight Stitch Sewing & Quilting Machine:

- Up to 1,500 stitches per minute
- Advanced needle threading system
- Precision pin feeding system
- Built-in Knee Lifter

\*Check other images for more product features.

Image: The Brother PQ1600S sewing machine with the large extension table attached, providing an expanded work area.

### 5. Spool Pin Setup

The built-in telescopic Dual Cone Thread stand keeps two thread spools ready for smooth and easy feeding. Place your thread spools on the pins.

### 6. Included Accessories

The PQ1600S comes with a range of accessories to support various sewing and quilting projects. These include seven accessory feet, a knee lifter, an extension table, and a dust cover.

# Sewing and Quilting Dynamo



**Sewing and Quilting Dynamo**  
The PQ1600S Sewing and Quilting Machine makes free motion quilting easy, and the extra-large extension table (11.1" x 23.3") with bobbin case opening helps you manage those large projects.

Image: A collection of included accessories for the Brother PQ1600S, including various presser feet, bobbins, and tools.

## 7. Threading the Machine

Follow the numbered guides on the machine for proper upper thread tension and routing. The automatic needle threader simplifies the final step of threading the needle.

Your browser does not support the video tag.

Video: This video demonstrates the various accessories included with the Brother PQ1600S sewing machine, providing an overview of what comes in the box.

## OPERATING THE MACHINE

### 1. Stitch Length and Thread Tension Adjustment

Use the stitch regulator dial to select your desired stitch length. The convenient thread tension adjustment dial allows for accurate tension control, ensuring beautiful and consistent stitching even on thicker fabrics.

Your browser does not support the video tag.

Video: This video illustrates how to adjust the thread tension and stitch length on the Brother PQ1600S sewing machine for optimal sewing results.

## 2. Feed Dog Adjustment

The machine features visible 4 color-coded levels of feed dog adjustment. This mechanism, along with presser foot pressure, provides maximum fabric control, allowing for smooth feeding of various fabric types, including delicate materials without leaving marks.



Heavy-duty construction for sewing and quilting for increased stability at high speeds, a reinforced metal handle, and an included dust cover for added convenience.

Image: A close-up of the feed dog adjustment mechanism on the Brother PQ1600S, showing the color-coded levels for fabric control.

Your browser does not support the video tag.

Video: This video demonstrates how to adjust the feed dogs on the Brother PQ1600S sewing machine to suit different fabric types and sewing needs.

## 3. Push-button Thread Cutter

The PQ1600S includes a convenient push-button thread cutter that automatically cuts both the upper and lower threads, saving time and effort.

## Included Accessories



Seven included accessory feet, the General Purpose Foot, a Rolled Hem Foot, a Zipper Foot, an Invisible Foot, the  $\frac{1}{4}$ " Foot, a Free Motion Quilting Foot, and a Pin Feed Foot, plus an included dust cover for easy storage, the PQ1600S is ready for any project.

Image: A close-up of the push-button thread cutter on the Brother PQ1600S, highlighting its location and function.

#### 4. Custom Needle Stop Position

The needle position can be pre-programmed to be in the up or down position when the machine stops, offering greater control for pivoting fabric or starting new seams.

## Feed Dog Adjustments

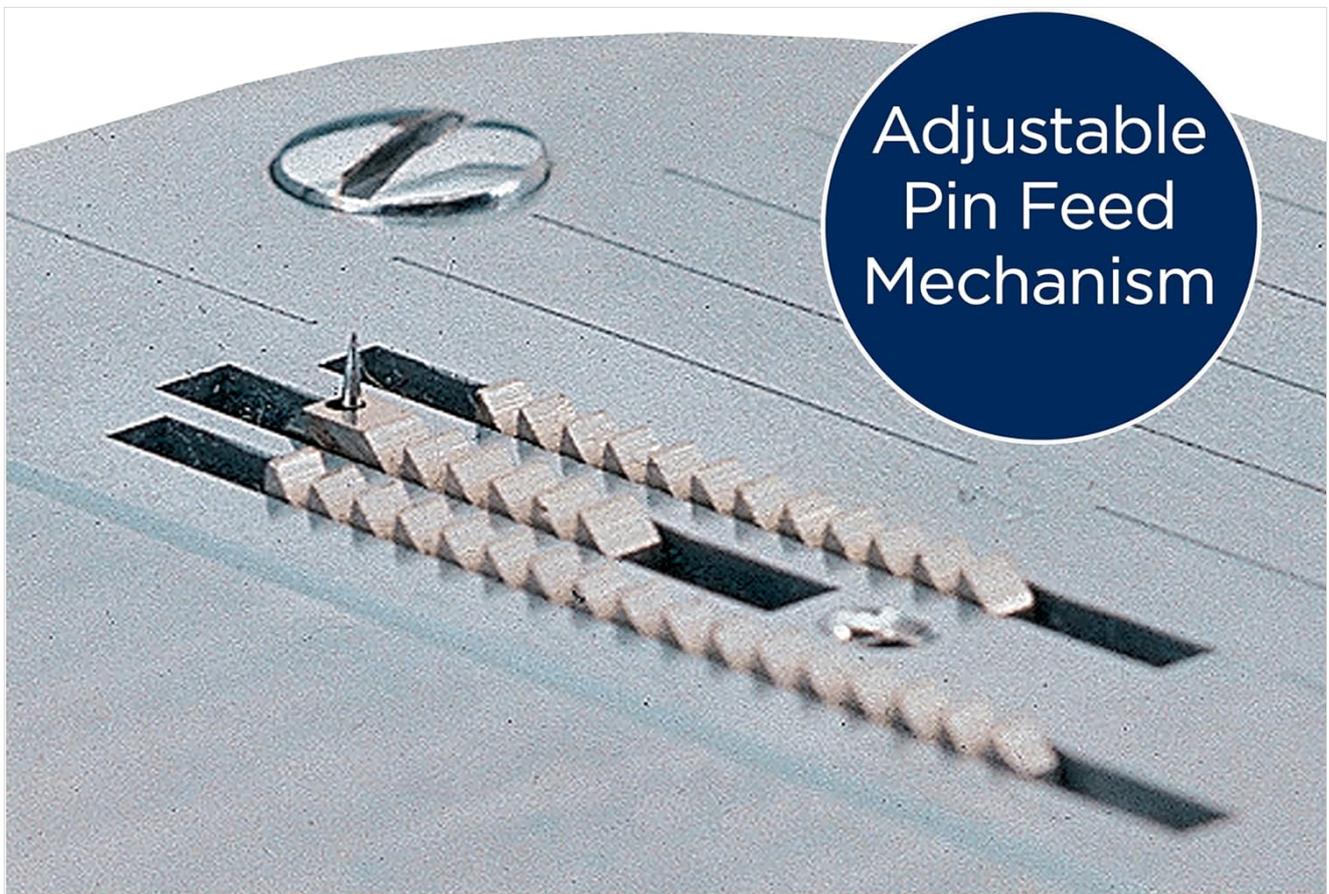


With visible 4 color-coded levels of feed dog adjustment and presser foot pressure, the PQ1600S will give you maximum fabric control.

Image: The control panel of the Brother PQ1600S showing the custom needle stop position button.

### 5. Knee Lifter

A built-in knee lifter allows you to raise and lower the presser foot, keeping your hands free to re-position or remove your material, which is especially useful for quilting and large projects.



Adjustable  
Pin Feed  
Mechanism

Simultaneously moves  
several layers of fabrics  
for sewing accuracy.

Image: The Brother PQ1600S sewing machine with the knee lifter mechanism visible, allowing hands-free presser foot control.

## MAINTENANCE

### 1. Cleaning the Machine

Regularly clean the bobbin area, feed dogs, and tension discs to prevent lint and thread buildup. Use a soft brush and a dry cloth. Ensure the machine is unplugged before cleaning.

### 2. Changing Needles

Change the needle frequently, especially when starting a new project or if you notice skipped stitches or fabric damage. Use the correct needle type and size for your fabric and thread.

## TROUBLESHOOTING

This section addresses common issues you might encounter during operation. For more detailed troubleshooting, refer to the full product manual or contact customer support.

### 1. Skipped Stitches

- Ensure the needle is inserted correctly and is not bent or dull.
- Check that the machine is properly threaded, both upper and bobbin threads.
- Use the appropriate needle type and size for your fabric.

## 2. Thread Breaking

- Verify that the machine is correctly threaded and the thread tension is appropriate.
- Check for burrs or rough spots on the needle plate or presser foot.
- Ensure the thread is not old or of poor quality.

## 3. Fabric Jamming

- Do not force fabric through the machine; let the feed dogs do the work.
- Ensure the presser foot is lowered before sewing.
- Check for thread tangles in the bobbin area.

## SPECIFICATIONS

Feature	Specification
Brand	Brother
Model Number	PQ1600S
Color	White
Material	Plastic outer/metal frame
Product Dimensions (D x W x H)	25"D x 11.5"W x 15"H
Item Weight	24 Pounds
Power Source	AC
Is Electric	Yes
Maximum Sewing Speed	Up to 1,500 stitches per minute
Included Components	Sewing machine and accessories

## WARRANTY AND SUPPORT

### Warranty Information

This product is intended for sale only in the US at 120 volts. Any other use or sale may void the warranty. For specific warranty details and registration, please refer to the warranty card included with your product or visit the official Brother support website.

### Customer Support

For further assistance, technical support, or to order replacement parts, please visit the official Brother support website or contact their customer service department. You can find contact information on the Brother website or in the documentation provided with your machine.

