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## BROTHER 2504D

# Brother 2504D Overlock Machine Instruction Manual

Model: 2504D

## 1. Introduction

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your Brother 2504D 3/4 Thread Overlock Machine. Please read this manual thoroughly before using the machine to ensure proper function and to prevent damage or injury. Keep this manual in a safe place for future reference.

## 2. Safety Instructions

Always follow basic safety precautions when using electrical appliances to reduce the risk of fire, electric shock, or injury to persons.

- Read all instructions before using the machine.
- Unplug the machine from the electrical outlet immediately after using and before cleaning, removing covers, or making any user servicing adjustments.
- Never operate this machine if it has a damaged cord or plug, if it is not working properly, or if it has been dropped or damaged.
- Keep fingers away from all moving parts. Special care is required around the sewing machine needle.
- Use only accessories recommended by the manufacturer.
- 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.

## 3. Product Overview

The Brother 2504D is a versatile overlock machine designed for creating professional finishes on various fabric types. Key features include:

- Capable of 3 or 4 thread cut and sew overlock stitches.
- Utilizes standard sewing machine needles for convenience.
- Features a fast and simple lower looper threading system.
- Equipped with a 4-color threading guide for easy setup.
- Achieves perfect overlock stitches on all types and weights of fabric.
- Adjustable stitch width from 5.0 to 7.0 mm.

- Includes a retractable knife for precise fabric trimming.
- Bright LED light illuminates the sewing area for improved visibility.
- Lightweight and compact design with a built-in carry handle.
- Presser foot pressure adjustment for different fabric thicknesses.
- Built-in accessory storage and a dust cover for protection.




Figure 1: Front view of the Brother 2504D Overlock Machine, showing the threading guides and needle area.

# 4. Setup

## 4.1 Unpacking

Carefully remove the machine from its packaging. Retain all packaging materials for storage or transport. Ensure all accessories listed in the packing list are present.

## 4.2 Power Connection

Place the machine on a stable, flat surface. Connect the power cord to the machine's power input and then to a suitable electrical outlet. Ensure the power switch is in the 'OFF' position before connecting.




Figure 2: Back view of the Brother 2504D Overlock Machine, showing the power input and identification label.

## 4.3 Needle Installation

The Brother 2504D uses standard sewing machine needles. Refer to the detailed instructions in the full manual for correct needle insertion and replacement to avoid damage to the machine or injury.

### 4.4 Threading

The machine features a 4-color threading guide and a fast, simple lower looper threading system to simplify the process. Follow the color-coded paths carefully for each thread. Incorrect threading can lead to skipped stitches or poor stitch quality.

## 5. Operating Instructions

### 5.1 Basic Operation

After threading, ensure the presser foot is lowered and the fabric is positioned correctly. Use the foot controller to start and stop the machine. The bright LED light illuminates the sewing area for clear visibility.

### 5.2 Stitch Width Adjustment

The stitch width can be adjusted between 5.0 mm and 7.0 mm to suit your project requirements. Refer to the machine's dials for precise adjustment.

### 5.3 Retractable Knife

The machine includes a retractable knife that trims the fabric edge as you sew, creating a clean finish. The knife can be disengaged if trimming is not desired.

### 5.4 Fabric Handling

The Brother 2504D is designed to produce perfect overlock stitches on various fabric types and weights. Adjust the presser foot pressure according to the fabric thickness for optimal results.

## 6. Maintenance

### 6.1 Cleaning

Regular cleaning is essential for maintaining your machine's performance. Always unplug the machine before cleaning. Use a soft brush to remove lint and dust from the feed dogs, needle plate, and looper areas. Do not use liquid cleaners or solvents.

### 6.2 Troubleshooting

If you encounter issues such as skipped stitches, broken threads, or uneven tension, first check the threading path, needle installation, and tension settings. For more complex problems, consult the comprehensive troubleshooting guide in your full product manual or contact Brother customer support.

## 7. Specifications

| Feature | Specification |
| --- | --- |
| Model Number | 2504D |
| Manufacturer | Brother |
| Stitch Type | 3 or 4 Thread Overlock |
| Stitch Width | 5.0 - 7.0 mm |
| Needle Type | Standard Sewing Machine Needles |
| Power Source | Corded Electric |
| Item Weight | 7.56 Kilograms |

| | |
|---|---|
| Product Dimensions | 38 x 36 x 33 cm |
| Color | White |
| Compatible Fabric Material | Fabric |

## 8. Warranty and Support

For information regarding your product's warranty, please refer to the warranty card included with your machine or visit the official Brother support website. For technical assistance, spare parts, or service, please contact Brother customer support through their official channels.

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