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› BOSCH BS80-6W 80 In. 6 TPI General Purpose Stationary Band Saw Blade Instruction Manual

## BOSCH BS80-6W

# BOSCH BS80-6W Stationary Band Saw Blade Instruction Manual

Model: BS80-6W | 80 In. | 6 TPI | General Purpose Wood Cutting

## 1. Introduction

This manual provides essential information for the safe and effective use of your BOSCH BS80-6W 80-inch, 6 TPI General Purpose Stationary Band Saw Blade. Please read these instructions carefully before installation and operation to ensure optimal performance and safety.

### PRODUCT OVERVIEW

The BOSCH BS80-6W band saw blade is engineered for general purpose wood cutting applications. It is designed for durability and high performance, featuring premium materials that resist heat buildup for extended blade life. The optimized tooth geometry ensures efficient and clean cuts in various wood types.

### KEY FEATURES:

- **Engineered for Wood Cutting:** Specifically designed for general cutting tasks in wood.
- **Durable Blade Design:** Combines material and manufacturing processes for a blade optimized for its intended application.
- **Premium Materials:** Constructed to resist heat buildup, contributing to a longer blade lifespan.
- **Optimized Tooth Geometry:** Provides cuts tailored to specific material and application requirements.
- **Advanced Laser-Cutting Technology:** Each blade is manufactured to exacting specifications for consistent quality.
- **Universal Fit:** Designed to be compatible with many standard stationary band saws requiring an 80-inch blade.



Figure 1: The BOSCH BS80-6W 80-inch band saw blade, coiled for packaging.

## 2. Safety Information

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Always prioritize safety when working with power tools. Failure to follow these safety guidelines may result in serious injury.

### **GENERAL SAFETY PRECAUTIONS:**

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the band saw is unplugged from the power source before performing any installation, adjustment, or maintenance.
- Keep hands and fingers away from the blade path during operation.
- Ensure the workpiece is securely supported and stable before cutting.
- Never force the blade through material; allow the blade to cut at its own pace.
- Keep the work area clean and well-lit.
- Do not operate the band saw if you are tired or under the influence of drugs or alcohol.

## 3. Setup and Installation

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Proper installation of the band saw blade is crucial for safe and efficient operation. Refer to your band saw's specific instruction manual for detailed steps on blade replacement, as procedures may vary between models.

### INSTALLATION STEPS (GENERAL GUIDE):

1. **Disconnect Power:** Ensure the band saw is unplugged from the power outlet.
2. **Open Cabinet/Access Doors:** Open the upper and lower wheel covers to access the band saw wheels and blade path.
3. **Release Blade Tension:** Loosen the blade tension mechanism on your band saw. This typically involves a knob or lever that reduces tension on the upper wheel.
4. **Remove Old Blade (if applicable):** Carefully remove the old blade from the wheels and guides. Dispose of it safely.
5. **Install New Blade:** Place the new BOSCH BS80-6W blade onto the upper and lower wheels. Ensure the teeth are pointing downwards towards the table, in the direction of rotation.
6. **Position Blade in Guides:** Carefully guide the blade through the upper and lower blade guides and between the thrust bearings. Ensure the blade is centered.
7. **Apply Blade Tension:** Re-tension the blade according to your band saw manufacturer's recommendations. The blade should be taut but not overly tight. A common test is to deflect the blade slightly with your finger; it should move about 1/4 inch.
8. **Adjust Blade Tracking:** Adjust the blade tracking mechanism (usually a knob on the upper wheel assembly) so that the blade runs centered on the rubber tires of both wheels. Spin the wheels manually to observe tracking.
9. **Adjust Blade Guides and Thrust Bearings:** Adjust the side guides so they are just barely touching the blade (about the thickness of a piece of paper) and the thrust bearings are approximately 1/32 inch behind the blade.
10. **Close Cabinet/Access Doors:** Securely close all covers before restoring power.



Figure 2: A band saw blade properly installed and positioned in the saw's guides.

## 4. Operating Instructions

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Once the blade is correctly installed and adjusted, you can begin cutting. Always follow safety guidelines and practice on scrap material before making critical cuts.

### BEFORE CUTTING:

- Ensure all guards are in place and properly adjusted.
- Adjust the upper blade guide assembly so it is approximately 1/8 to 1/4 inch above the workpiece.

- Verify the blade is tracking correctly and tension is appropriate.
- Clear the work area of obstructions.

## CUTTING PROCEDURE:

1. **Start the Saw:** Turn on the band saw and allow the blade to reach full speed before contacting the workpiece.
2. **Position Workpiece:** Place the workpiece firmly on the saw table, aligning the cut line with the blade.
3. **Feed Material:** Gently and steadily feed the material into the blade. Avoid forcing the material, as this can cause the blade to bind, deflect, or break. Let the blade do the work.
4. **Maintain Control:** Use both hands to guide the material, keeping fingers away from the blade. For smaller pieces, use a push stick.
5. **Follow Curves (if applicable):** For curved cuts, apply gentle pressure and guide the material smoothly. The 6 TPI general purpose blade is suitable for moderate curves.
6. **Complete the Cut:** Continue feeding until the cut is complete. Support the off-cut piece to prevent it from falling and binding the blade.
7. **Turn Off Saw:** Once the cut is finished, turn off the band saw and wait for the blade to come to a complete stop before removing the workpiece or clearing sawdust.



Figure 3: The BOSCH BS80-6W blade actively cutting a wooden workpiece on a band saw.

## 5. Maintenance

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Regular maintenance of your band saw blade will extend its lifespan and ensure consistent cutting performance.

## BLADE CARE:

- **Cleaning:** Periodically clean resin and sawdust buildup from the blade using a wire brush or a specialized blade cleaner. Ensure the blade is removed from the saw and handled with gloves during cleaning.
- **Inspection:** Before each use, inspect the blade for any signs of damage, such as bent teeth, cracks, or dullness. A dull blade will cause burning, excessive vibration, and poor cut quality. Replace damaged or excessively dull blades immediately.
- **Storage:** When not in use, store the blade in its original packaging or a suitable blade storage container to protect the teeth and prevent accidental injury. Store in a dry environment to prevent rust.



Figure 4: A close-up of the blade teeth, highlighting the importance of regular inspection for wear and damage.

## 6. Troubleshooting

This section addresses common issues encountered during band saw operation with the BS80-6W blade.

Problem	Possible Cause	Solution
Blade not cutting straight	Incorrect blade tension, dull blade, improper guide adjustment, incorrect feed rate.	Check and adjust blade tension. Replace dull blade. Adjust blade guides and thrust bearings. Reduce feed rate.
Blade breaking frequently	Over-tensioning, improper blade tracking, forcing cuts, material too hard for blade, worn tires.	Reduce blade tension slightly. Adjust blade tracking. Avoid forcing cuts. Ensure blade is suitable for material. Inspect and replace worn wheel tires.
Excessive vibration	Loose components, unbalanced wheels, improper blade tension, dull blade.	Check all fasteners on the saw. Inspect wheels for damage. Adjust blade tension. Replace dull blade.
Burning or scorching wood	Dull blade, too slow feed rate, excessive friction from guides.	Replace dull blade. Increase feed rate slightly. Ensure blade guides are not too tight.

## 7. Specifications

Technical details for the BOSCH BS80-6W Band Saw Blade:

- **Model:** BS80-6W
- **Blade Length:** 80 inches
- **Teeth Per Inch (TPI):** 6
- **Application:** General Purpose Wood Cutting
- **Material:** Alloy Steel
- **Color:** Black
- **Item Weight:** Approximately 0.15 Pounds

## 8. Warranty and Support

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For information regarding warranty coverage, technical support, or service for your BOSCH product, please refer to the official BOSCH website or contact BOSCH customer service directly. Keep your purchase receipt as proof of purchase.

**BOSCH Official Website:** [www.boschtools.com](http://www.boschtools.com)