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## Promac 349V

# Promac 349V Metal Bandsaw Instruction Manual

Model: 349V | Brand: Promac

## INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Promac 349V Portable Metal Bandsaw. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

The Promac 349V is a portable manual bandsaw designed for dry cutting of various metals. It features a variable speed control, a pivoting arch for angled cuts, and a quick-release vise for secure material clamping. Its lightweight yet powerful design ensures precision and ease of use.

## SAFETY INSTRUCTIONS

**WARNING:** Failure to follow these safety instructions may result in serious personal injury or property damage.

- Always wear appropriate Personal Protective Equipment (PPE), including safety glasses, hearing protection, and gloves.
- Ensure the work area is clean, well-lit, and free from obstructions.
- Keep children and bystanders away from the operating machine.
- Do not operate the bandsaw in damp or wet conditions.
- Ensure the power supply matches the specifications of the machine (230V).
- Never force the machine; allow the blade to cut at its own pace.
- Disconnect power before performing any adjustments, maintenance, or when changing blades.
- Securely clamp the workpiece in the vise before cutting.
- Inspect the blade for damage before each use. Replace dull or damaged blades immediately.
- Do not wear loose clothing or jewelry that could get caught in moving parts.

## SETUP

### Unpacking

Carefully remove the bandsaw from its packaging. Inspect the machine for any signs of damage that may have occurred during transit. Report any damage to your supplier immediately. Retain packaging materials for future transport or storage.

## Assembly and Initial Checks

The Promac 349V is delivered without a base. Ensure the bandsaw is placed on a stable, level, and secure workbench or stand capable of supporting its weight (approx. 21 kg) and the workpiece.

1. **Blade Installation:** The bandsaw comes with a blade (1440 x 13 x 0.65 mm, 10/14 TPI). Refer to the detailed instructions in the included service keys for proper blade installation and tensioning. Ensure the teeth are oriented correctly.
2. **Vise Adjustment:** Familiarize yourself with the quick-release vise. Ensure it operates smoothly and can securely clamp various material sizes up to 190 mm.
3. **Power Connection:** Connect the bandsaw to a grounded 230V power outlet. Ensure the power switch is in the "OFF" position before plugging in.
4. **Functionality Check:** Before cutting, perform a brief test run without material to ensure the blade runs smoothly and the speed variator functions correctly.



Figure 1: Promac 349V Metal Bandsaw. This image shows the overall structure of the bandsaw, including the motor, blade housing, and vise mechanism.

## OPERATING INSTRUCTIONS

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### Preparing for a Cut

1. **Select Blade Speed:** Use the speed variator to select the appropriate blade speed (25-80 m/min) for the material being cut. Harder metals generally require slower speeds.

2. **Adjust Cutting Angle:** If an angled cut is required, adjust the pivoting arch up to 60°D. Securely lock the arch in the desired position.
3. **Secure Workpiece:** Place the material to be cut firmly in the vise. Use the quick-release mechanism to clamp it securely. Ensure the material is stable and will not shift during the cut.
4. **Adjust Depth (if applicable):** The bandsaw features depth adjustment. Set the cutting depth as required for your material.

## Making a Cut

1. Ensure all safety precautions are observed and PPE is worn.
2. Turn on the bandsaw using the power switch. Allow the blade to reach full operating speed before engaging the material.
3. Gently lower the blade into the workpiece. Apply steady, even pressure. Do not force the cut. The machine is designed for dry cutting.
4. Maintain a firm grip on the handle and guide the saw through the material.
5. Once the cut is complete, lift the saw clear of the workpiece and turn off the power. Wait for the blade to stop completely before handling the material or making any adjustments.

## MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Promac 349V bandsaw. Always disconnect the power supply before performing any maintenance.

- **Cleaning:** After each use, clean the machine to remove metal chips and dust. Use a brush or compressed air. Do not use solvents that may damage plastic parts.
- **Blade Inspection and Replacement:** Regularly inspect the blade for wear, damage, or dullness. A dull blade will reduce cutting efficiency and can cause excessive strain on the motor. Replace blades as needed, following the instructions in the service keys. Ensure the new blade dimensions are 1440 x 12.7 x 0.64mm or 1440 x 13 x 0.65mm.
- **Ball Bearings:** The blade is guided by ball bearings. Periodically check these bearings for smooth operation and replace if they show signs of wear or excessive play.
- **Vise Mechanism:** Keep the vise mechanism clean and lightly lubricated to ensure smooth operation and secure clamping.
- **Power Cord:** Inspect the power cord for any damage or fraying. Replace if necessary by a qualified technician.
- **Storage:** Store the bandsaw in a clean, dry place, away from moisture and extreme temperatures.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Bandsaw does not start	No power supply; Power switch off; Faulty power cord.	Check power connection and outlet; Ensure switch is ON; Inspect and replace power cord if damaged (by qualified personnel).
Blade stops during cut	Blade dull or damaged; Excessive pressure applied; Incorrect blade speed for material.	Replace blade; Reduce cutting pressure; Adjust blade speed according to material.

Problem	Possible Cause	Solution
Inaccurate cuts	Workpiece not securely clamped; Blade worn or damaged; Incorrect angle setting.	Re-clamp workpiece firmly; Replace blade; Re-adjust and lock pivoting arch.
Excessive vibration or noise	Loose components; Worn blade guides/bearings; Damaged blade.	Check and tighten all fasteners; Inspect and replace blade guides/bearings; Replace blade.

For issues not listed here, or if troubleshooting steps do not resolve the problem, please contact Promac customer support or a qualified service technician.

## SPECIFICATIONS

Feature	Value
Model	349V
Manufacturer	Promac
Power Supply	230 V
Motor Power	1.0 kW (1010 Watts)
Speed Range	25 - 80 m/min (variable)
Blade Dimensions	1440 x 12.7 x 0.64 mm (or 1440 x 13 x 0.65 mm)
Pivoting Arch Angle	Up to 60°D
Cutting Capacity (Round @ 90°)	125 mm
Cutting Capacity (Square @ 90°)	125 x 125 mm
Cutting Capacity (Round @ 45° Right)	85 mm
Cutting Capacity (Square @ 45° Right)	85 x 85 mm
Cutting Capacity (Round @ 60° Right)	50 mm
Cutting Capacity (Square @ 60° Right)	50 x 50 mm
Vise Opening	190 mm
Product Dimensions (L x W x H)	72.4 x 44.6 x 37.5 cm
Weight	21 kg
Sound Level	60 dB
Certification	CE

Feature	Value
Special Features	Depth adjustment
Included	Bandsaw, 1 blade (1440 x 13 x 0.65 mm, 10/14 TPI), User manual, Service keys

## WARRANTY AND SUPPORT

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### Warranty Information

The Promac 349V Metal Bandsaw comes with a **2-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from misuse, abuse, unauthorized modifications, or normal wear and tear.

Please retain your proof of purchase for warranty claims.

### Customer Support

For technical assistance, spare parts, or warranty service, please contact your Promac dealer or authorized service center. Refer to the contact information provided with your purchase documentation or visit the official Promac website for support details.