



Manuals.plus /

› Gates /

› Gates C118 Hi-Power II Belt, C Section, C118 Size, 7/8" Width, 17/32" Height, 122.0" Belt Outside Circumference

Gates C118

Gates C118 Hi-Power II Belt User Manual

Model: C118

INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Gates C118 Hi-Power II Belt. Adhering to these guidelines will ensure optimal performance and extend the lifespan of the belt.

PRODUCT OVERVIEW

The Gates C118 Hi-Power II Belt is a multipurpose power transmission V-belt designed for a wide range of industrial applications. It is engineered for durability and efficient power transfer.

Key Features:

- **Material:** Constructed from EPDM (ethylene propylene diene monomer) rubber, offering resistance to weathering, oils, water, and certain solvents.
- **Cord Bonding:** Cords are strongly bonded to the belt body, ensuring equal load distribution and reducing bending stress without cord deterioration.
- **Sidewall Design:** Features concave sidewalls that provide cord support and full contact with the sheave groove, leading to equal loading and uniform wear.
- **V80 Matching System:** Part of Gates' V80 matching system, guaranteeing precise matching of belts of the same type and size for even load distribution in multi-belt drives.
- **Standards Compliance:** Meets RMA oil and heat resistance standards and static conductivity requirements.



Image: A Gates C118 Hi-Power II V-belt, illustrating its robust construction and characteristic V-shape. The image highlights the smooth, dark rubber material and the precise curvature of the belt, designed for efficient power transmission.

SETUP AND INSTALLATION

Proper installation is crucial for the longevity and performance of the V-belt. Always refer to your equipment's specific service manual for detailed instructions regarding belt replacement.

General Installation Steps:

1. **Safety First:** Ensure all power to the machinery is disconnected and locked out before beginning any work.
2. **Remove Old Belt:** Loosen tensioning devices and carefully remove the old belt from the sheaves.
3. **Inspect Sheaves:** Clean and inspect sheaves for wear, damage, or misalignment. Worn sheaves can significantly reduce belt life.
4. **Install New Belt:** Do not force or pry the new belt onto the sheaves. Adjust the center distance to allow the belt to be placed easily into the grooves.
5. **Tensioning:** Apply the recommended tension according to the equipment manufacturer's specifications. Proper tension is vital; too little tension can cause slippage, and too much can damage bearings and the belt.

itself.

6. **Alignment:** Verify that the sheaves are properly aligned to prevent uneven wear and premature belt failure.
7. **Run-in Period:** After installation, run the drive for a short period (e.g., 30 minutes) and then re-check the tension, as belts can stretch slightly during initial operation.

OPERATING INSTRUCTIONS

Once installed, the Gates C118 Hi-Power II Belt operates as part of your machinery's power transmission system. No specific user interaction is required during operation beyond ensuring the machinery is used within its design parameters.

Operational Considerations:

- **Load Management:** Avoid overloading the drive system beyond its rated capacity, as this can lead to premature belt wear or failure.
- **Environmental Factors:** While the belt is resistant to certain elements, extreme temperatures, excessive moisture, or abrasive environments can impact its lifespan. Ensure the operating environment is suitable.
- **Noise and Vibration:** Monitor the drive for unusual noises or vibrations, which could indicate issues with tension, alignment, or belt wear.

MAINTENANCE

Regular inspection and maintenance are essential to maximize the service life of your Gates C118 Hi-Power II Belt.

Recommended Maintenance Schedule:

- **Weekly/Monthly Inspection:** Visually inspect the belt for signs of wear, cracking, fraying, or glazing. Check for proper tension and alignment.
- **Tension Adjustment:** Re-tension the belt as needed, especially after the initial run-in period and periodically thereafter, to maintain optimal performance.
- **Sheave Inspection:** Periodically inspect sheaves for wear in the grooves, which can cause the belt to ride too low and reduce efficiency.
- **Cleaning:** Keep the belt and sheaves free from dirt, oil, grease, and other contaminants.
- **Storage:** If storing spare belts, keep them in a cool, dry place away from direct sunlight and ozone-generating equipment.

TROUBLESHOOTING

This section addresses common issues that may arise with V-belts and their potential solutions.

Problem	Possible Cause	Solution
Belt Squealing/Slipping	Low tension, oil/grease on belt/sheaves, worn sheaves, overload.	Adjust tension, clean belt/sheaves, replace worn sheaves, reduce load.
Premature Belt Wear	Improper tension, misalignment, worn sheaves, excessive heat, foreign material.	Adjust tension, correct alignment, replace worn sheaves, improve ventilation, clean drive.
Belt Turnover/Twisting	Misalignment, worn sheaves, excessive vibration, improper tension.	Correct alignment, replace worn sheaves, address vibration source, adjust tension.
Belt Breaking	Shock loads, foreign object damage, severe misalignment, extreme overload.	Identify and eliminate shock loads, remove foreign objects, correct alignment, reduce load.

SPECIFICATIONS

Attribute	Detail
Brand	Gates
Model Number	C118 (Manufacturer Part Number) / 90042118 (Item Model Number)
Belt Style	V Belt
Section Size	C Section
Width	7/8 inches (0.88 inches)
Height	17/32 inches
Outside Circumference	122.0 inches
Material	EPDM (Ethylene Propylene Diene Monomer) Rubber
Item Weight	2.3 pounds
Product Dimensions (Packaging)	1.2 x 1 x 32 inches
Compatible Devices	Printer (as listed in product specifications, verify applicability for specific use)

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or replacement parts for your Gates C118 Hi-Power II Belt, please contact Gates directly or refer to their official website.

Manufacturer: Gates

Website: www.gates.com (Note: This is a general link, specific support contact information may vary)

Date First Available: October 26, 2010