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› [Beninca Bull 624R Slide Gate Opener Kit User Manual](#)

BENINCA Bull 624R

Beninca Bull 624R Slide Gate Opener Kit User Manual

Model: Bull 624R

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the Beninca Bull 624R Slide Gate Opener Kit. Please read this manual thoroughly before beginning installation or operation to ensure proper function and safety of the system.



Image: Overview of the Beninca Bull 624R Slide Gate Opener Kit components. This includes the main motor unit, two remote controls, a separate receiver, a photocell sensor, and multiple sections of nylon gear rack for gate movement.

SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow safety guidelines can result in serious injury or damage to property. Adhere to all local electrical codes and safety regulations.

- Ensure all electrical connections are made by a qualified electrician.
- Keep hands and loose clothing clear of moving gate parts.
- Do not allow children to play near the gate or operate the controls.
- Regularly inspect the gate and opener for signs of wear or damage.
- The anti-crushing safety system must be tested after installation and periodically thereafter.

Kit Contents

The Beninca Bull 624R Slide Gate Opener Kit includes the following components:

- **Beninca Bull 624R Operator:** A 24VDC motor unit designed for sliding gates.
- **Remote Controls:** Two long-range 433.92 MHz remote controls with triple coding options.
- **Receiver:** ONE.2WB receiver unit for remote control signals.
- **Photocell Sensor:** PRP retro-reflective polarized photocell sensor for safety.
- **Nylon Gear Rack:** Five 40-inch sections of nylon gear rack with steel cores for gate movement.

Specifications

Feature	Specification
Model	Beninca Bull 624R
Motor Type	24VDC
Max Gate Weight	600 lb (272 kg)
Max Gate Length	20 ft (6.1 m)
Remote Frequency	433.92 MHz
Photocell Range	Up to 33 ft (10 m)
Product Dimensions	42 x 10 x 6.5 inches
Item Weight	60 pounds

Setup and Installation

Proper installation is crucial for the safe and efficient operation of your gate opener. Refer to the detailed diagrams and instructions provided in the full installation guide (typically included with the product) for comprehensive steps.

1. Mounting the Operator

Securely mount the Beninca Bull 624R operator on a stable, level concrete pad next to the gate. Ensure adequate clearance for gate movement and access for maintenance. The mounting position should allow the drive gear to properly engage with the gate's rack.

2. Installing the Gear Rack

Attach the nylon gear rack sections along the bottom edge of the sliding gate. Ensure the rack is level and properly meshed with the operator's drive gear. A small gap (approximately 1-2mm) between the gear and the rack is necessary to allow for thermal expansion and smooth operation.



Image: Detail of the nylon gear rack, showing the teeth designed to engage with the motor's drive gear. These sections are crucial for the gate's linear movement and must be installed precisely.

3. Wiring Connections

Connect the power supply, photocell sensors, and any other accessories to the control board inside the operator unit. Always follow the wiring diagram provided in the complete installation manual. Ensure all connections are secure, properly insulated, and protected from environmental elements.

4. Photocell Installation

Install the retro-reflective photocell sensor on the gate posts, ensuring they are aligned and unobstructed. The photocell provides an essential safety feature, preventing the gate from closing if an obstruction is detected in its path. Test the photocell functionality after installation.

OPERATING INSTRUCTIONS

1. Initial Power-Up and Programming

After installation, power up the unit. Use the integrated LCD display to navigate the programming menu. Set gate limits, operating speeds (including soft-start and soft-stop functions), and anti-crushing sensitivity according to your gate's requirements and local safety standards. Refer to the full manual for detailed programming steps.

2. Remote Control Pairing

To pair the remote controls with the gate opener:

1. Access the remote programming menu on the operator's LCD display.

- 2. Press the desired button on the remote control you wish to pair.
- 3. Confirm successful pairing on the LCD display. Repeat for additional remotes.



Image: The two included Beninca remote controls, featuring two buttons each, alongside the separate receiver unit. These are used for wireless operation of the gate opener.

3. Manual Operation

In case of power failure or malfunction, the gate can be operated manually. Locate the manual release mechanism on the operator unit (refer to the full manual for exact location and procedure), unlock it, and slide the gate by hand. Remember to re-engage the mechanism for automatic operation.

MAINTENANCE

Regular maintenance ensures the longevity and reliable operation of your Beninca Bull 624R gate opener. Perform these checks periodically:

- **Monthly:** Inspect the gate's movement for any obstructions, ensure the gear rack is clean and free of debris, and check the photocell sensors for alignment and cleanliness.
- **Quarterly:** Lubricate moving parts as recommended in the full manual. Check all electrical connections for tightness and corrosion. Test the anti-crushing safety feature by placing a soft object in the gate's path.
- **Annually:** It is recommended to have a qualified technician perform a comprehensive inspection and service to ensure optimal performance and safety.

TROUBLESHOOTING

This section addresses common issues you might encounter with your gate opener and provides potential solutions.

Problem	Possible Cause	Solution
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Gate does not move	No power; Photocell obstructed; Remote battery low; Manual release engaged.	Check power supply; Clear photocell path; Replace remote battery; Disengage manual release.
Gate stops unexpectedly	Obstruction detected by photocell or anti-crushing system; Motor overheating.	Check for obstructions and clear them; Allow motor to cool if overheated; Adjust anti-crushing sensitivity if too high.
Remote control not working	Battery dead; Not paired correctly; Out of range; Interference.	Replace battery; Re-pair remote following instructions; Move closer to receiver; Check for sources of interference.

WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the documentation provided with your purchase or contact Beninca customer service directly. Keep your proof of purchase for any warranty claims.

Manufacturer: Beninca

Part Number: Beninca Bull 624R KIT

