

BFT Gate Opener BFT KUSTOS ULTRA BT A40

BFT KUSTOS Ultra BT A40 24V Gate Opener User Manual

Model: Gate Opener BFT KUSTOS ULTRA BT A40

PRODUCT OVERVIEW

The BFT KUSTOS ULTRA BT A40 is a high-performance 24V gate opener designed for swing gates. It is engineered to handle gates weighing up to 500 kg (1102 lbs) and measuring up to 4 meters (13 ft) in length. This robust system ensures reliable operation for frequent use.

Key features include:

- **Covered Worm Screw:** Provides enhanced protection against external elements such as water, dust, and dirt, ensuring durability and safety by preventing access to moving parts.
- **Magnetic Limit Switch:** Delivers precise movement control and simplifies the adjustment process during installation.
- **Intensive Use 24V Motor:** Ideal for applications requiring frequent operation, offering energy-efficient and durable performance.
- **Included Components:** The package typically includes the gate opener unit, 2 Mitto Remote/Transmitters, and 1 Polarized Reflective Safety Photo Eye with Hood. *Note: A control board is not included with this unit.*



Image: The BFT KUSTOS Ultra BT A40 gate opener unit (top), with various installation hardware, wiring, two remote controls, and two safety photo eyes (bottom).

SETUP AND INSTALLATION

Proper installation is crucial for the safe and efficient operation of your BFT KUSTOS Ultra BT A40 gate opener. It is highly recommended that installation be performed by qualified personnel.

Pre-Installation Checks:

- Ensure the gate structure is sound and moves freely without obstruction.
- Verify that the gate hinges are in good condition and properly lubricated.
- Confirm that the gate dimensions and weight are within the specified limits (up to 500 kg and 4m length).
- Ensure a suitable power supply (24V) is available at the installation site.

Mounting the Operator:

1. Determine the optimal mounting position on the gate post and gate leaf to ensure smooth operation and full gate travel.
2. Securely attach the rear mounting bracket to the gate post using appropriate fasteners.
3. Attach the front mounting bracket to the gate leaf.
4. Mount the BFT KUSTOS Ultra BT A40 operator to the brackets, ensuring it is level and aligned.

Electrical Connections:

- Connect the operator to a compatible 24V control board (*not included*). Refer to the control board's manual for specific wiring diagrams.
- Install the included Polarized Reflective Safety Photo Eye with Hood according to the instructions provided with the photo eye. These are critical safety devices.
- Ensure all electrical connections are secure and protected from the elements.

Limit Switch Adjustment:

The integrated magnetic limit switches allow for precise setting of the gate's open and closed positions. Follow the control board's instructions for calibrating these limits to prevent over-travel and ensure proper gate alignment.

OPERATING INSTRUCTIONS

Once installed and configured with a control board, the BFT KUSTOS Ultra BT A40 gate opener can be operated using the provided Mitto Remote/Transmitters or other compatible access control devices.

Using the Remote Control:

- Press the designated button on the Mitto remote control to activate the gate opener.
- A single press typically initiates the gate opening or closing cycle.
- Pressing the button again during operation may pause or reverse the gate's movement, depending on the control board's programming.

Safety Features:

The system is designed with safety in mind. The Polarized Reflective Safety Photo Eye detects obstructions in the gate's path and will stop or reverse the gate's movement to prevent injury or damage. Always ensure these safety devices are clear and functioning correctly.

Manual Release:

In case of power failure or system malfunction, the gate opener can be manually disengaged. Locate the manual release mechanism on the operator (typically a key-operated lock or lever) and follow the instructions to unlock the motor, allowing the gate to be moved by hand.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your BFT KUSTOS Ultra BT A40 gate opener. Perform these checks periodically:

- **Visual Inspection:** Check the operator, mounting brackets, and gate for any signs of wear, damage, or corrosion.
- **Cleanliness:** Keep the area around the gate opener and the photo eyes clear of debris, dirt, and vegetation. The covered worm screw design helps protect internal components, but external cleanliness is still important.
- **Gate Movement:** Periodically check that the gate moves freely and smoothly when operated manually (with the opener disengaged). Lubricate gate hinges if necessary.
- **Safety Devices:** Test the safety photo eyes regularly by placing an object in their path during gate operation to ensure they stop or reverse the gate.
- **Electrical Connections:** Ensure all wiring connections are secure and free from damage.

For any complex maintenance or repairs, contact a qualified technician.

TROUBLESHOOTING

This section provides solutions to common issues you might encounter. For more complex problems, consult a professional.

Problem	Possible Cause	Solution
Gate does not respond to remote.	Remote battery is dead. Remote is out of range. No power to the control board. Safety photo eyes obstructed.	Replace remote battery. Move closer to the gate. Check power supply and circuit breaker. Clear obstruction from photo eyes.
Gate stops mid-cycle.	Obstruction detected by photo eyes. Gate binding or mechanical issue. Motor overheating (less common with 24V).	Remove obstruction. Manually operate gate to check for binding; lubricate hinges. Allow motor to cool down.
Gate opens/closes partially.	Limit switches incorrectly set. Mechanical resistance.	Re-adjust magnetic limit switches according to control board manual. Check gate for obstructions or binding.

SPECIFICATIONS

Model Number	Gate Opener BFT KUSTOS ULTRA BT A40
Manufacturer	BFT
Gate Weight Capacity	Up to 500 kg (1102 lbs)
Gate Length Capacity	Up to 4 meters (13 ft)
Voltage	24V
Protection Rating	IP44
Item Weight	75 pounds
Product Dimensions	8 x 10 x 12 inches

Included Components

Manual, 2 Mitto Remote / Transmitter, 1 Polarized Reflective Safety Photo Eye With Hood, and more. *(Control board not included)*

WARRANTY AND SUPPORT

For information regarding product warranty, please refer to the documentation provided with your purchase or contact the seller directly. Warranty terms may vary based on region and distributor.

For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact the authorized BFT distributor or your point of purchase. You can often find contact information on the seller's website or on your purchase invoice.

Customer Support is typically available from the seller.

© 2024 BFT. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.