

## Warner Linear K2XG20-12V-06

# Warner Linear B-Track Linear Actuator K2XG20-12V-06 User Manual

Model: K2XG20-12V-06 | Brand: Warner Linear

## INTRODUCTION

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This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Warner Linear B-Track Linear Actuator, model K2XG20-12V-06. Please read this manual thoroughly before using the product to ensure proper function and to prevent injury or damage. Keep this manual for future reference.

## SAFETY INFORMATION

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Always observe the following safety precautions to prevent personal injury or damage to the equipment:

- **Disconnect Power:** Always disconnect power to the actuator before performing any installation, maintenance, or troubleshooting.
- **Proper Wiring:** Ensure all electrical connections are made correctly according to wiring diagrams and local electrical codes. Incorrect wiring can cause damage or fire.
- **Avoid Overloading:** Do not exceed the rated load capacity of 2200 lbs. Overloading can lead to actuator failure and potential hazards.
- **Secure Mounting:** Mount the actuator securely to a stable structure capable of supporting the actuator's weight and its maximum load.
- **Pinch Points:** Be aware of moving parts and potential pinch points during operation. Keep hands and loose clothing clear.
- **Environmental Conditions:** Ensure the operating environment is within the specified temperature and humidity ranges for the actuator.

## PRODUCT OVERVIEW

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The Warner Linear B-Track Linear Actuator is a robust electromechanical device designed for converting rotary motion into linear push/pull motion. This model operates on 12VDC and is capable of handling a

dynamic load of up to 2200 lbs with a 6-inch stroke. It is engineered for demanding industrial and scientific applications requiring precise and powerful linear movement.



*Image: A dark gray Warner Linear B-Track Linear Actuator, showing the motor housing, gear assembly, and the extending rod. The actuator is designed for heavy-duty linear motion applications.*

## SPECIFICATIONS

Feature	Specification
Model Number	K2XG20-12V-06
Brand	Warner Linear
Voltage	12VDC
Load Capacity (Dynamic)	2200 lb (998 kg)
Stroke Length	6 inches (152.4 mm)
Manufacturer	WARNER LINEAR
ASIN	B00BKAHH1O

## SETUP AND INSTALLATION

### Mounting

Proper mounting is crucial for the actuator's performance and longevity. Ensure the mounting surface is flat, rigid, and capable of withstanding the maximum force exerted by the actuator.

1. Identify suitable mounting points on both the actuator and the application structure.
2. Use appropriate fasteners (bolts, nuts, washers) that are strong enough for the intended load.
3. Ensure the actuator is aligned correctly with the direction of motion to prevent binding or side loading.
4. Tighten all fasteners securely, but do not overtighten, which could damage the actuator housing or mounting brackets.

### Wiring

The K2XG20-12V-06 actuator requires a 12VDC power supply. Observe correct polarity for desired direction of motion.

1. Connect the positive (+) terminal of your 12VDC power supply to one of the actuator's power leads.
2. Connect the negative (-) terminal of your 12VDC power supply to the other actuator power lead.
3. To reverse the direction of the actuator, reverse the polarity of the power supply connections.
4. Ensure all wiring is properly insulated and protected from environmental factors and mechanical damage.
5. Use wire gauges appropriate for the current draw of the actuator to prevent overheating.

## OPERATING INSTRUCTIONS

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Once properly installed and wired, the actuator can be operated by applying 12VDC power.

- **Extension:** Apply 12VDC with a specific polarity to extend the actuator rod.
- **Retraction:** Reverse the polarity of the 12VDC supply to retract the actuator rod.
- **Limit Switches:** This actuator typically includes internal limit switches that automatically stop the rod at its fully extended and fully retracted positions. Do not attempt to override these switches.
- **Duty Cycle:** Be aware of the actuator's specified duty cycle to prevent overheating. Continuous operation beyond the recommended duty cycle can shorten the actuator's lifespan.

## MAINTENANCE

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The Warner Linear B-Track Actuator is designed for minimal maintenance. However, periodic inspection can help ensure long-term reliable operation.

- **Visual Inspection:** Regularly inspect the actuator for any signs of physical damage, loose connections, or excessive wear on mounting points.
- **Cleanliness:** Keep the actuator free from excessive dirt, dust, and debris, especially around the rod and seals. Use a clean, dry cloth for cleaning.
- **Lubrication:** The internal components are pre-lubricated for life. Do not attempt to lubricate the internal mechanism unless specifically instructed by Warner Linear.
- **Rod Condition:** Check the actuator rod for any scratches, dents, or corrosion that could compromise the seals.

## TROUBLESHOOTING

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Refer to the table below for common issues and their potential solutions.

Problem	Possible Cause	Solution
Actuator does not move	No power, incorrect wiring, blown fuse/breaker, internal limit switch engaged, motor failure.	Check power supply, verify wiring, inspect fuse/breaker, ensure actuator is not at stroke limit, contact support if motor failure is suspected.
Actuator moves slowly or with reduced force	Low voltage, excessive load, internal friction, worn components.	Verify power supply voltage, reduce load, check for obstructions, contact support for internal issues.
Unusual noise during operation	Misalignment, worn gears, foreign object, motor issue.	Check mounting alignment, inspect for obstructions, contact support for internal component issues.

<b>Problem</b>	<b>Possible Cause</b>	<b>Solution</b>
Actuator stops prematurely	Overload protection triggered, internal limit switch fault, obstruction.	Reduce load, check for obstructions, cycle power, contact support if limit switch fault is suspected.

## **WARRANTY AND SUPPORT**

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For warranty information, technical assistance, or to inquire about replacement parts, please contact Warner Linear customer service. Refer to the official Warner Linear website or your purchase documentation for the most current contact details and warranty terms applicable to your region and product.

When contacting support, please have your model number (K2XG20-12V-06) and any relevant purchase information readily available.