

CHIEN RONG XK-SBM 690

CHIEN RONG XK-SBM 690 Wheel Balancer Instruction Manual

Model: XK-SBM 690

1. INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, setup, and maintenance of your CHIEN RONG XK-SBM 690 Wheel Balancer. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent damage or injury. Keep this manual for future reference.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent personal injury or damage to the equipment.

- **Read the Manual:** Understand all instructions and warnings before operation.
- **Proper Installation:** Ensure the machine is installed on a stable, level surface capable of supporting its weight and the weight of the wheels being balanced.
- **Power Source:** Connect the balancer only to a 110-volt power supply as specified. Ensure the power outlet is properly grounded.
- **Personal Protective Equipment (PPE):** Wear appropriate safety glasses and gloves during operation.
- **Clear Work Area:** Keep the area around the balancer clear of obstructions and unauthorized personnel.
- **Moving Parts:** Keep hands, hair, and clothing clear of all moving parts during operation. Do not attempt to stop a spinning wheel by hand.
- **Maintenance:** Disconnect power before performing any maintenance or cleaning.
- **Authorized Personnel:** Only trained and authorized personnel should operate or service this equipment.

3. PRODUCT OVERVIEW AND COMPONENTS

The CHIEN RONG XK-SBM 690 is a heavy-duty wheel balancer designed for accurate tire balancing. It features a robust construction and a user-friendly interface.



Figure 1: The CHIEN RONG XK-SBM 690 Wheel Balancer shown with its included accessories, such as centering cones and a quick-release wing nut. The machine features a blue powder coat finish and a control panel for operation.

Included Accessories:

- 3 Centering Cones
- Quick Release Wing Nut
- All other accessories shown in product images

4. SETUP AND INSTALLATION

Follow these steps to properly set up your wheel balancer.

1. **Unpacking:** Carefully remove the balancer and all accessories from the packaging. Inspect for any shipping damage.
2. **Placement:** Position the balancer on a firm, level, and clean surface. Ensure there is adequate space around the machine for safe operation and wheel handling.
3. **Power Connection:** Connect the 110-volt power cord to a grounded electrical outlet.

4. **Initial Check:** Power on the machine and verify that the display illuminates and basic functions respond. The machine is pre-set to American standard measurements.



Figure 2: Side view of the XK-SBM 690 Wheel Balancer, highlighting the robust wheel mounting shaft where tires are secured for balancing.

5. OPERATING INSTRUCTIONS

This section details the steps for balancing a wheel using the XK-SBM 690.

5.1 Mounting the Wheel

1. Select the appropriate centering cone for the wheel's hub bore.
2. Slide the wheel onto the balancer's shaft, ensuring it is flush against the mounting flange.
3. Secure the wheel firmly with the quick-release wing nut. Ensure the wheel is centered and stable.



Figure 3: The XK-SBM 690 Wheel Balancer with a car wheel securely mounted on the shaft, ready for the balancing process.

5.2 Inputting Wheel Parameters

Use the control panel to input the wheel's dimensions:

- **Rim Diameter:** Input the correct rim diameter (supported range: 10" - 24").
- **Rim Width:** Input the correct rim width (supported range: 1.5" - 20").
- **Distance:** Measure and input the distance from the machine to the rim edge (refer to the control panel for specific instructions).

- **Cleaning:** Keep the machine clean, especially the shaft and mounting surfaces, to prevent debris from affecting accuracy. Use a soft, dry cloth.
- **Cable Inspection:** Periodically check all power and sensor cables for wear or damage. Replace damaged cables immediately.
- **Calibration:** Refer to the specific calibration procedures in the full manual (if available) or contact support for guidance on periodic calibration to maintain accuracy.
- **Storage:** When not in use, store the machine in a clean, dry environment.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

Problem	Possible Cause	Solution
Machine does not power on	No power supply; faulty power cord; internal fuse blown.	Check power connection and outlet. Inspect power cord. If issue persists, contact support.
Inaccurate balancing results	Improper wheel mounting; incorrect parameter input; machine not level; calibration needed.	Ensure wheel is securely mounted and centered. Verify input parameters. Check machine level. Consider recalibration.
Wheel does not spin	Motor issue; sensor malfunction; safety interlock engaged.	Ensure no obstructions. If problem continues, contact professional service.

For issues not listed here or if troubleshooting steps do not resolve the problem, please contact customer support.

8. SPECIFICATIONS

Technical specifications for the CHIEN RONG XK-SBM 690 Wheel Balancer:

- **Model:** XK-SBM 690
- **Manufacturer Part Number:** CR-004
- **Rim Diameter:** 10" - 24"
- **Rim Width:** 1.5" - 20"
- **Max. Wheel Diameter:** 44" (1117mm)
- **Maximum Wheel Weight:** 155 lbs
- **Cycle Time:** 6-9 seconds
- **Power:** 110 volt
- **Balancing Accuracy:** -1g to +1g
- **Operating Modes:** Standard Dynamic, Static, ALU 1-3, Motorcycle
- **Finish:** Blue Powder Coat

9. WARRANTY AND SUPPORT

Your CHIEN RONG XK-SBM 690 Wheel Balancer comes with a **12-month parts replacement warranty**.

This warranty covers replacement parts for defects in materials or workmanship under normal use. For warranty claims, technical assistance, or to order replacement parts, please contact your authorized dealer or CHIEN RONG customer support. Please have your model number (XK-SBM 690) and purchase information ready when contacting support.