

Operating Instructions

Bio-Rad Laboratories

**UltraRocker
Rocking Platform**

1660709 and 1660719

For Technical Service Call Your Local Bio-Rad Office,
Or in the U.S., call 1-800-4BIORAD (1-800-424-6723)



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1. Introduction

The UltraRocker Rocking Platform is intended for general purpose applications requiring constant rocking. The rocker can be used in environments from 4° to 70°C. This allows for cold room use as well as incubated applications.

The rocking platform is covered with a nonslip rubber mat to provide stability. Plates, dishes and other sample containers may be placed on its surface. The degree of tilt the platform achieves while rocking is fixed at $\pm 7.5^\circ$. The number of tilts per minute can be varied in steps from 0 to 60 as required to suit particular applications.

The Ultra Rocker is constructed of heavy gauge steel. This provides the rocker with a stable base for vibration free operation. The maximum load the rocking platform can carry is 4.5kg (10lbs).

The UltraRocker is supplied a pair of stacked 30 x 30 cm platforms. The clearance between the two platforms is 9 cm.

Read this instruction manual thoroughly before attempting to operate the UltraRocker Rocking Platform. All persons operating this piece of equipment should review the Safety Precautions section of this manual.

2. Warranty

The manufacturer guarantees that the UltraRocker Rocking Platform you have received meets its published specification. The UltraRocker is guaranteed to be free of defects in materials and workmanship for a period of one year from the date of purchase. This guarantee is valid only if the unit has been used in accordance with the instructions in this manual and for its intended purpose. The manufacturer shall not be responsible for consequential damages or damages resulting from the abuse or misuse of this equipment. Liability shall be limited to the repair or replacement of the unit or refund of the purchase price at the manufacturer's discretion.

3. Specifications

Shaking speeds (approx.):	0 to 60 rpm
Operating Environment	4° to 70°C
Platform Dimensions	30 x 30 cm
Rocking Motion	Fixed, $\pm 7.5^\circ$
Maximum Load	4.5kg (10 lbs)
Clearance between platforms	9cm
Electrical:	120V/60Hz,/0.3A 230V/ 50Hz/ 0.1A

4. Unpacking and Installation

Upon receipt of the UltraRocker, examine the exterior carton for damages. In the event of shipping damage, a claim must be filed with the transportation carrier within 10 days.

Carefully unpack the unit and check for completeness. Included in the carton should be the following:

- Rocker with two platforms
- Instruction Manual
- Warranty Card

- Platform Installation package (4 posts, 4 washers, 4 nuts, 4 metal knurl nuts)
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If any of these items are missing, contact Bio-Rad immediately.

Install the second platform per the platform installation diagram on the last page of this manual.

Verify that the unit is rated for the proper voltage by checking the panel on the back. Check that the proper power cord has been received.

The UltraRocker should be located on a level, stable surface near a grounded electrical outlet. Allow sufficient clearance on all sides of the unit, at least 3 inches, for proper ventilation. Ensure that the platform will not touch other objects while in operation.

Plug the power cord into a grounded wall socket. The UltraRocker is now ready for use.

5. Operating the UltraRocker

To begin operation of the rocker, turn the power switch, located on the right side of the front panel, to the on (illuminated) position. Adjust the speed dial to the desired setting by rotating in steps clockwise to increase speed. To stop operation, turn the power switch to the off position. The nonslip rubber pad on the platform surface is designed to keep objects in place; however, it may be useful to hold down lighter objects with platform tie downs or bungee cords.

Note: To avoid splashing of samples, the rocker should be started with the speed set at the lowest position and gradually turned up to the desired speed.

6. Safety Precautions



The following precautions should be taken when operating or working near the UltraRocker:

Never operate the rocker without platforms securely attached.

Always wear shatterproof eye protection.

Always make certain that the platform and any hardware are secure before operating the shaker.

Load the rocker symmetrically. Unbalanced loads should be avoided.

Solvents and flammables should not be used on or near the shaker.

Service and repair must only be performed by qualified professionals.

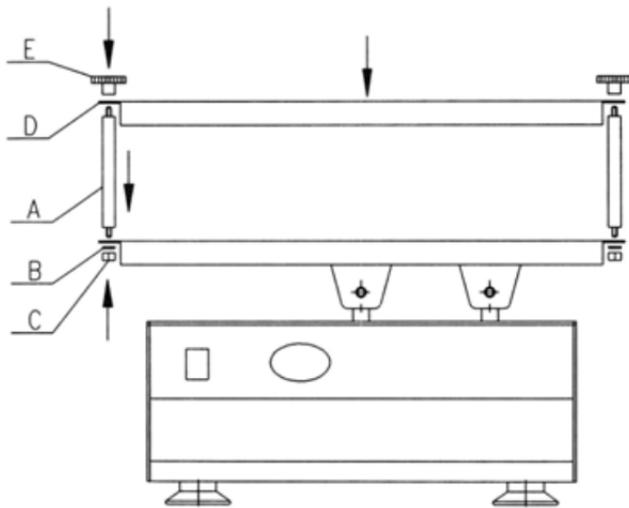
Hazardous samples should be shaken only in appropriate containment vessels.

7. Care and Maintenance

After each use, the UltraRocker should be wiped down with a soft, damp cloth. Do not immerse the rocker in water or pour liquids over the unit as electrical shock may occur.

8. Troubleshooting and Service

If the unit fails to operate, check that the unit is plugged into a working outlet. Check that the unit is switched on and the power switch is illuminated. Finally, check the fuses. If the problem persists, contact Bio-Rad's technical support team at 1-800-424-6723. Please have your purchase order number and the serial number of the unit available when you call.



1. Set posts (A) through four holes at the corners of bottom platform
2. Add washer (B) and nut (C) to each post.
3. Fit upper platform (D) on the top of four posts through corner holes.
4. Screw on four metal knurl nuts (E) to secure upper platform.

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