



The RoboRocker™ Operator's Manual

Congratulations!

Congratulations on your purchase of a RoboRocker™ by Next Advance.

Please read this operator's manual which explains proper operation. This manual is posted on our website, www.nextadvance.com. Click the *Support* button on the menu bar at the top of the page. Then select *RoboRocker Support* from the drop down.

We're confident that your RoboRocker will become an essential tool in your laboratory and we wish you success with your work.

SYMBOLS USED ON THE ROBOROCKER



Caution: Follow the Instructions in the Operator's Manual



Indicates European Conformity (Conformité Européene) with health, safety, and environmental protection standards



Please dispose of the RoboRocker in accordance with local regulations

SCREEN ICONS



Home



Maintenance



Start / Resume



Information



Edit



Stop



Settings



Save



Pause



RS18-1303D

OVERVIEW

The RoboRocker is a programmable tilt table. You can program it to travel at a specified rate to a specified angle, and at a second specified rate to a second angle, and optionally to one or two more angular positions at specified rates, and even have the platform pause at those tilt angles for seconds or even hours. This lab instrument is designed for very accurate angular position and speed control. You can even program it to travel very slowly to offset the changing liquid levels in the inlet and outlet reservoirs of microfluidic systems, thereby providing a constant flow rate of medium.

Regarding IQ/OQ/PQ (Installation, Operation and Performance Qualifications), the installation Qualification consists of plugging in the rocker, turning on the power, and checking if the display lights up. The Operation Qualification consists of going to the Maintenance screen (see below) and running the test program. Your Performance Qualification can be checked by running the RoboRocker in actual use.

SETUP

Mount the platform or rack on the mounting base oriented to the desired rocking direction using the screws included in the plastic bag. If you are using a stacking tray (a second platform), use the 4 standoffs to attach the bottom platform instead and then mount the upper platform or tray to the standoffs using the 4 screws.

Add the 4 adhesive-backed rubber feet if you are using the RoboRocker on a continuous surface. However, if you are using it on a wire rack or under a

temperature-controlled set up ($\geq 30^{\circ}\text{C}$), do not use the rubber feet.

Place the RoboRocker on a stable, level lab bench or shelf in an incubator. Carry it by grasping the bottom sides. Plug the AC/DC power adapter into the 24V socket on the back of the RoboRocker and then insert the plug into a wall outlet. Turn on the power and the display will light up, initially with a splash screen, then with the home screen. It is now ready to be used.

INFORMATION

The Information screen displays the model and software revision.

SETTINGS

Click on the Settings icon to jump to the Settings screen and program the RoboRocker. On this screen you can select up to 6 programs depending on the model. Once a program is selected you can edit the program by clicking on the Edit icon.

To edit a program, use the keypad on the right. In some models, click Fast or Slow to select the rate at which the RoboRocker will travel to the specified angles. For most applications, use the Fast setting to program the rate in degrees per second. Note that the rate of travel for the Slow option is programmed as pace in seconds per degree. Therefore, the higher the number, the slower the platform will rock. This makes it easy to determine how long it will take to travel to a specified angle. Using travel rate as pace also makes it very easy to program slow rates of the change in tilt angle to provide for constant flow of culture medium in microfluidics applications. Once the values are entered, click on Save. Unless you click on Save or

Revert, you will not be able to leave this screen.

MAINTENANCE

On the Maintenance screen you can set the level position and run the test program. To set the level position, use the arrows to tilt the platform to the desired position. Note that as you press an arrow, the rate of travel increases. Use the double arrow to travel more quickly, the single arrow to travel more slowly. Once the platform is at the desired angular position, click on the Set Level button.

Click on the Test Program button to run the test program. You can use this to check if the rocker is working including for Operation Qualification. This program is set in the factory and cannot be edited.

OPERATION

Depending upon model, you can select up to 6 programs. If you want to change the program's settings, go to the SETTINGS screen, change the settings, save the program, and return to the home screen. To begin rocking, press START. Once the rocker is running, you can PAUSE, and then RESUME or STOP.

CLEANING

If you wish to clean your RoboRocker, clean the outside of the unit only with mild soap, water and a soft cloth. Under normal conditions, the RoboRocker should never need to be disassembled for cleaning.

TROUBLESHOOTING

A list of troubleshooting tips is at nextadvance.com.

SUPPORT

FAQs and other helpful information are available on our website, www.nextadvance.com. If you cannot find an answer there, please contact support@nextadvance.com or call (518) 674-3510.

SPECIFICATIONS

Power Requirement: 24 VDC, 2.5 Amp
Relative Humidity: 5 - 90% non-condensing
Operating Temperature: 4 - 40°C
Altitude: <2000m
Storage Temperature: -40 to 50°C

Meets  requirements

WARRANTY

Next Advance warrants its Products against defects in materials and workmanship for time periods which vary according to the Product. Within these time periods, Next Advance will replace or repair, without charge to the original purchaser, any part which is defective. The RoboRocker warranty is one year for all models. The warranty is void if the Product is defective due to product accident, product modification, exposure to radiation, connection to an improper electrical supply, lack of proper maintenance, contamination, improper installation or misuse. If the product is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired. The warranty shall also not apply to defects arising from fire, flood, lightning or other conditions unrelated to correct operation of the Product.



Next Advance's liability is limited, at the company's election, to (1) refund of the original purchaser's purchase price for the Product (2) repair of the Product, or (3) replacement of the Product or defective parts. Evidence of purchase by the original purchaser is required. Next Advance may also request documentation of proper maintenance, if applicable.

Operator is responsible for: providing proof of purchase and providing normal care and maintenance.

WARNINGS AND CAUTIONS

- Read the user's manual before operating.
- Do not put excessive weight on the platform (over 10 lbs).
- Do not insert fingers or objects under the platform.
- When working with hazardous or pathogenic samples, operate the RoboRocker in a biosafety cabinet or other standard laboratory safety enclosure.
- No user serviceable parts are inside of the instrument.
- For indoor use only.
- Pollution Degree 2 per EN 61010-1.
- Overvoltage Category II per EN 61010-1.
- Enclosure Protection: Not Protected Against the Ingress of Moisture.
- Do not immerse in liquid.
- Before touching the RoboRocker, touch a bare metal surface to discharge static electricity.

DISCLAIMER

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