

Operator's Manual



The Bullet Blender®

Model: Bullet Blender® 50-DX

Congratulations!

Congratulations on your purchase of a Bullet Blender® by Next Advance, Inc., for mixing, lysing, disrupting, and homogenizing your samples.

Please read this operator's manual which explains proper operation of the instrument. This manual is posted on our website, www.nextadvance.com. Click on SUPPORT in the left window and then on the appropriate link to the manual.

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

Contents

Parts of the Bullet Blender®	2
Setup.....	4
Operation.....	4
Protocols and Sample Settings.....	5
Cleaning	5
Troubleshooting	5
Support.....	6
Specifications	6
Warranty.....	6
Warnings and Cautions	7
Disclaimer	7
Contact Info.....	7

Parts of the Bullet Blender®



View with cover removed.

OPERATOR'S MANUAL FOR THE BULLET BLENDER[®] 50-DX

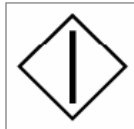
SYMBOLS USED ON THE 50-DX



ON position of the AC Mains Power Switch.



OFF position of the AC Mains Power Switch



Start Operation



Locked Position of the Cover (of Sample Chamber)



Unlocked Position of the Cover (of Sample Chamber)



Caution: Follow the Instructions in the Operator' Manual



This product complies with the European Low Voltage and EMC Directives.



Please dispose the test tubes and the 50-DX in accordance with local Regulation.

OPERATOR'S MANUAL FOR THE BULLET BLENDER® 50-DX

SETUP

Place the Bullet Blender® on a stable, level lab bench. Carry it by the grasping the bottom sides, NOT the Operator Panel/control box. Plug the AC power supply cord connector into the AC Input Receptacle on the right side of the Bullet Blender® and then insert the plug into a wall outlet. Turn the Power Switch to the ON (I) position and you should see lights on the time setting flash for several seconds, indicating that the unit is receiving power. It is now set up.

OPERATION

To use your BB50-DX model Bullet Blender®, lift open the lid, unfold the handle and use it to rotate the cover to unlock it. Insert the 50 mL sample tubes in the protective sleeves and place the sleeves into the sample tube plate.



Cover with the handle unfolded.

The threads on the sample tubes must be dry and the caps must be screwed on very tightly. Use a minimum of 2 sleeves, so that all the energy from the Bullet Blender is not concentrated on a single tube. For best results, the sleeves should be evenly spaced.

Replace the cover and rotate it to lock it in place. Fold down the handle on the cover, and then close the lid.

Set the duration, in minutes, and the speed to the desired value. Push the “START” button. At each three minute interval an LED will light up, indicating its progress. The air cooling will continue for 30 seconds after the motor times out.

Do not operate without the cover locked in place or with the lid open. There will be excess noise, your samples may not be properly processed, and the tubes might be knocked out of the instrument, potentially causing injury.

Turning the “minutes” knob to “0” will stop the instrument.

Example:



The figure above shows the BB50-DX model Bullet Blender® set to run for 6 minutes at a speed of 7. The lights indicate it has been running for 3 minutes. After 6 minutes, the Bullet Blender® will stop homogenizing. The words “Air Cooling™” will stay lit during operation and for 30 seconds after the cycle is complete. Note that the Bullet Blender® 50-DX has time settings up to 15 minutes in 3 minute increments.

PROTOCOLS AND SAMPLE SETTINGS

The following ratio should be used as a guideline for determining the amount of beads and buffer to use given a certain sample size - 1 volume/mass of tissue : 1 volume of beads : 2 volumes of buffer. For more specific information regarding the use of various beads as well as specific protocol information, please refer to our website www.nextadvance.com.

For 50mL tubes, do not operate with more than 3.5g of sample, or a total of 20mL of buffer, tissue, and beads (per tube).

Cutting the tissue into smaller pieces will generally yield better results. Tissue with a high aspect ratio (long, thin strips) will homogenize better than tissue that is round or cubic.

Do not operate the Bullet Blender® using the same tubes for more than 30 minutes.

Protocols for many types of samples are posted on our website, at www.nextadvance.com/FAQs/protocols.htm

Notes:

Use Axygen® brand or Corning® brand polypropylene, plug seal cap, skirted (self-standing) 50 mL tubes. There may be some discoloration of the sleeves and of the tubes after homogenization. This is normal and a by product of the workings of the Bullet Blender®, which is designed to impact the tubes with as much energy as possible.

CLEANING

If you wish to clean your Bullet Blender, clean the outside of the unit only with mild soap water and a soft cloth. Under normal conditions, the Bullet Blender® should never need to be disassembled for cleaning. In the case of a large spill, please contact Next Advance at support@nextadvance.com. **Do not touch or tamper with the electronics.**

TROUBLESHOOTING

In addition to the tips given below, a thorough list of troubleshooting tips is at http://www.nextadvance.com/FAQs/FAQs-Bullet_Blender.htm.

If the Bullet Blender doesn't start, the plug of the power supply cord might not be in a live wall outlet or the power supply connector plug might not be fully inserted in the AC Input Receptacle of the Bullet Blender®. Also make sure Power Switch is in the ON (I) position.

If the unit stops working, turn the system off for 15 minutes to allow the electronics to reset. If the Bullet Blender® does not turn on after this period, contact customer service.

If the caps on the 50 mL tubes loosen, make sure that the screw threads between the lids and the caps are dry when you close the caps or screw them on, so that there is enough friction for the caps to remain tight. Using recommended types of tubes will minimize cap failure.

For best results, the tubes and sleeves should be evenly spaced.

OPERATOR'S MANUAL FOR THE BULLET BLENDER® 50-DX

SUPPORT

FAQs, protocols, and other helpful information are available on our website, <http://www.nextadvance.com>.

If you cannot find an answer there, please contact customer service by email at techsupport@nextadvance.com or by telephone at (518) 674-3510 or (800) 738-1681.

SPECIFICATIONS

Size: 15 in. (38 cm) deep x 13 in (33 cm) wide x 15 in. high (38 cm).

Weight: 33lbs (15 kg).

Power Requirement: 100-240V~ 50/60Hz 0.5A.

Capacity: 8 of 50 mL skirted (self-standing) polypropylene tubes.

Relative Humidity: 5 - 90% non-condensing

Operating Temperature: 4 - 40⁰C.

Altitude: <2000m

Storage Temperature: -40 to 50°C

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.

Bullet Blender	Two years
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The warranty is void if the Product is defective due to product accident, product modification, exposure to radiation other than for sterilization, 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.

Next Advance makes no other warranty, express or implied, with respect to its Products. NEXT ADVANCE MAKES NO WARRANTY RESPECTING THE MERCHANTABILITY OF THE PRODUCTS OR THEIR SUITABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR USE. Next Advance shall not be liable for, indirect, special, incidental or consequential damages of any nature. Any recovery for any claim shall be limited to the original purchase price for the product.

OPERATOR'S MANUAL FOR THE BULLET BLENDER® 50-DX

Operator's Responsibility

Provide proof of purchase and provide normal care and maintenance.

WARNINGS AND CAUTIONS

Read the user's manual before operating.

Do not carry the instrument by the control box. Instead, use the side handles to lift the instrument.

Do not operate Bullet Blender® BB50-DX instruments with fewer than 2 sleeves in place.

Do not open lid or cover when the Bullet Blender® is in use.

Sound Pressure Level: 79dBA max. with the Lid closed (up to 90dBA with the Lid in open position). Close lid cover when the Bullet Blender® is in use.

Do not insert fingers or objects other than recommended tubes into sample tube holes.

Use caution when closing the Bullet Blender® lid - do not close on fingers.

Use recommended tubes only.

No user serviceable parts are inside.

For indoor use only.

Pollution Degree 2 per EN 61010-1.

Overtoltage Category II per EN 61010-1

Enclosure Protection: Not Protected Against the Ingress of Moisture

Do not immerse in liquid.

Before touching the Bullet Blender®, touch a bare metal surface to discharge static electricity.

DISCLAIMER

Next Advance, Inc. makes no representations or warranties, expressed, statutory or implied, regarding the fitness or merchantability of this product for any particular purpose. In no event shall Next Advance be liable for incidental or consequential damages. Next Advance, Inc. is not liable for any damages, including but not limited to, lost profits, lost savings, or other incidental or consequential damages arising from ownership or use of this product, or for any delay in the performance of its obligations under the warranty due to causes beyond its control.

Next Advance, Inc. also reserves the right to make any improvements or modifications to the product described in this manual at any time, without notice of these changes. Next Advance, Inc. products are not designed, intended, or authorized for use in applications or as system components intended to support or sustain human life, as a clinical medical device for humans, or for any application in which the failure of the product could create a situation where personal injury or death may occur.

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OPERATOR'S MANUAL FOR THE BULLET BLENDER® 50-DX

CONTACT INFO

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