WARING COMMERCIAL

Ellipse™

BLENDING SYSTEM



MXE2000

For your safety and continued enjoyment of this product, always read the instruction book carefully before using.

IMPORTANT SAFEGUARDS

When using electrical appliances, basic safety precautions should always be taken, including the following:

1. **READ ALL INSTRUCTIONS.**
2. Always unplug from outlet when not in use, prior to handling, before putting on or taking off parts, and before cleaning.
3. To protect against electrical hazards, do not immerse the blender base in water or other liquids.
4. This appliance is not intended for use by persons (including children) with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge.
5. Recharge only with the charger specified by the manufacturer. A charger that is suitable for one type of product may create a risk of fire when used with another product.
6. Follow all charging instructions and do not charge the product or appliance outside of the temperature range specified in the instructions. Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.
7. Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
8. Do not interchange wall warts with different chargers. Only use with intended charger.
9. Avoid contact with moving parts.
10. Do not operate any appliance with a damaged cord or plug, or after the appliance malfunctions or is dropped or damaged in any manner. Return appliance to the nearest authorized service facility for examination, repair, or electrical or mechanical adjustment.
11. The use of attachments, including canning jars, not recommended by the appliance manufacturer may cause hazards.
12. Do not use outdoors.
13. Do not let cord hang over edge of table or counter, or touch hot surfaces.
14. Keep all foreign objects out of the container while blending to prevent the possibility of severe personal injury and/or damage to the blender.
15. Blades are sharp. Handle carefully.
16. Always operate blender with cover in place.
17. The use of ear protection is recommended during extended operating periods.
18. **Before First Use:** Clean blender and jar per cleaning and sanitizing instructions, pages 14–16.

19. The appliance must be positioned so that the plug is accessible.
20. DO NOT use carbonated liquids in the blender jar or any blending container. Using carbonated liquids in the blender jar or any blending container may result in injury.
21. DO NOT blend for longer than 3 consecutive minutes.
22. Never remove blender jar from base unit until the blade and coupling have completely stopped.
23. Do not expose the appliance or battery to excessive temperatures.

INTENDED USE

The Ellipse Blending System is intended for use in restaurants, chains, large kitchens, and small companies when blending for the perfect consistency. This appliance may only be used in accordance with the instructions noted in this manual. All other uses described in this manual are seen as unintended use.

SAVE THESE INSTRUCTIONS

PARTS



IN THE BOX


Base


Docking Station


Sound Enclosure


Lid


Jar


Drive


Single Charging Station


Dasher

Some tools and parts may not be included. You can buy additional tools and parts at waringcommercialproducts.com.


Coupling


Blending Assembly Kit


Triple Charger (Sold Separately)

GETTING STARTED/CHARGING YOUR ELLIPSE DRIVE

CAUTION: Store the Ellipse chargers and Ellipse drive at room temperature only. Avoid exposure to high temperatures to prevent damage.

1. Your Ellipse Blending System comes with one single charging station. Please ensure you fully charge your Ellipse drive before using it for the first time and after every service day.
2. Plug your adapter into a wall outlet.
3. Before first use, place your Ellipse drive on the charging station and charge for 2.5-3 hours. The LED will indicate your battery level.
   a. Low battery (1-25%) = Blinking red
   b. Medium battery (26-75%) = Blinking orange
   c. High battery (76-99%) = Blinking green
   d. Full battery (100%) = Solid green
4. Once your drive has reached the solid green stage, your Ellipse drive is fully charged and ready to use.

OPERATING YOUR ELLIPSE DRIVE

1. The Ellipse drive can be activated in two ways, automatically and manually:
   - **Automatic activation:** The Ellipse drive needs to be activated by pressing and holding the AUTO START button for three seconds (see figure 1). When the drive is active, you'll see the green LED blinking. This indicates your drive is now in AUTO START mode. The Ellipse drive can be activated automatically by closing the sound enclosure. Once activated, the drive will run continuously for 30 seconds or until the sound enclosure is opened.
     NOTE: In AUTO START mode, do not store the drive upside down.



FIGURE 1

   - **Manual activation:** The Ellipse drive can also be activated by pressing one of the three buttons on top of the drive at any time (see figure 2). Each button indicates the duration the drive will remain on—10 seconds, 20 seconds or 30 seconds—depending on your specific blending needs.

     NOTE: To stop or cancel any automatic or manually activated mode, press any of the time buttons again.



FIGURE 2

2. To turn off AUTO START mode on your Ellipse drive, press and hold the AUTO START button for three seconds. You can confirm the drive is off if the LED is no longer blinking.
3. At the end of every service day, place the drive on the provided charger to ensure your drive is fully charged for the next service day or shift.

   NOTE: The Ellipse drive will fully charge in 3 hours. Each full charge can last up to 8 hours, depending on use.

   NOTE: Use a soft, damp cloth to clean the clear window of the Ellipse drive. This will ensure the drive runs properly.

   NOTE: Do not overcharge the Ellipse drive. Ellipse drive should not be left on charging station indefinitely. This will degrade the battery over time. To preserve battery life of the Ellipse drive, only charge when needed.

4. Please ensure the Ellipse dasher and lid are in place before placing the drive on the jar.

   NOTE: When blender is not in use, place Ellipse drive on the docking station for easy access.

ELLIPSE DASHER SYSTEM

1. The Ellipse dasher system is made up of two primary parts. Each individual piece cannot operate without the other.



2. **Assembly:** The dasher features two locking tabs on each of its sides. In order to properly assemble the dasher into the lid, insert the dasher into the bottom of the lid (as shown in the image to the right) until each of the locking tabs clicks into place. Once in place, the dasher is securely locked to the lid and can be placed on the Ellipse jar.



3. **Disassembly:** In order to disassemble the dasher from the lid, gently press inward on the two locking tabs. This will disengage the dasher from the lid. Gently press down on the locking tabs pushing through the lid using both thumbs.

   NOTE: Please perform this operation over a sink or counter to prevent the dasher from falling and being damaged.

   NOTE: The Ellipse lid features two gaskets, one located on the inside of the lid and the second located around the outside of the lid. Both gaskets must be in place in order to properly run the Ellipse system. Both gaskets must be removed and cleaned at the end of each service day or as needed.

ELLIPSE DOCKING STATION

Your Ellipse blender comes with a docking station that functions as a storage option for your Ellipse drive. The docking station can be placed in front of your blender base or on the right or left side, depending on your storage and/or usage needs.

NOTE: The docking station is not a charging device. It will not charge your Ellipse drive when in place.

BEFORE BLENDING

1. Before starting, make sure that the blender is unplugged and container is not positioned on the blender.
2. Put ingredients into container and cover it. Do not fill above MAX fill line.
3. Place container on blender base. Be sure container is fully seated and that the drive coupling is properly engaged. Place the lid and dasher on the jar followed by the Ellipse drive. Plug blender cord into outlet.

XTREME CONTROL SETTINGS

1. The motor speed can be adjusted by pressing the + or − speed buttons. Speed ranges from 5% to 100%.



100%	20,000 RPM
50%	10,000 RPM
5%	1,000 RPM

The Speed Up + button will increase the motor speed display in 1% increments, and the Speed Down − button will decrease the motor speed in 1% increments. Holding down either button will quickly scroll through speeds.

Using the Speed Up + and Speed Down − buttons, set desired motor speed. If no speed is selected, motor will default to 100%.

NOTE: The motor does not run at the newly set speed until the START/STOP ⏻ button is pressed. If START/STOP ⏻ button is not pressed within 5 seconds, the new speed setting will be stored for next use and the blender will return to STANDBY mode; the display will once again read “PRESS ANY BUTTON TO BLEND.”

2. Press START/STOP ⏻ button to run the blender. Blender will run continuously at the set speed. The LCD will display the motor speed in percentage. Default speed (percentage) is at 100%. Motor speed can be changed while blender is running by simply pressing Speed Up + or Speed Down − button.
3. To stop continuous blending operation, press START/STOP ⏻ button or press any of the program buttons.

PULSE FEATURES

Your unit comes equipped with two PULSE options: Normal Pulse NORM and Maximum Pulse MAX. **Note:** The Pulse buttons are momentary switches — once released, the unit will shut off.

1. To use Max Pulse option, press the MAX button. This will run the motor at 150% speed. The LCD will read “MAX PULSE SPEED: 150%.”
2. To use Normal Pulse option, press the NORM button. This will run the motor at 100% speed. The LCD will read “NORM PULSE SPEED: 100%.”

3. The blender allows you to set the pulse to your desired speed. While blending at Normal Pulse speed, the motor can be adjusted. To do this, hold the Normal Pulse NORM button and press Speed Up + or Speed Down − button to adjust the blending speed. The LCD will show the setting speed, and motor speed will change.

NOTE: The speed can be set from 5% to 100%. Once the NORM Pulse button is released, the motor will shut off and the blender will return to STANDBY mode. The changed pulse speed will be stored in memory to replace the default speed of 100%.

REPROGRAMMABLE STATIONS

1. There are 4 Program buttons for four reprogrammable beverage stations for easy operation and consistent results. The factory-set stations are programmed as listed below:

1	70% speed, 10 seconds blend time
2	70% speed, 15 seconds blend time
3	70% speed, 20 seconds blend time
4	70% speed, 25 seconds blend time

2. To run any of the above preset programs, blender must be in STANDBY mode.
3. Press desired Program button to start the blender. The motor will run at the preset speed within the preset blending time. The LCD will show time remaining. Once the blender counts down to 0, the motor will stop running and the blender will return to STANDBY mode and prompt “PRESS ANY BUTTON TO BLEND” to begin another function.

NOTE: To terminate a blending program, simply press START/STOP ⏻ button or any of the Program buttons. After doing this, the blender will return to STANDBY mode and LCD will prompt “PRESS ANY BUTTON TO BLEND.”

REPROGRAMMING BEVERAGE STATIONS

Users can add 4 new programs to meet their needs. A program can consist of several sections, each with a different speed and running time.
For example, 1 can be replaced with a new program that has 3 sections, as shown below:

Section 1: speed = 75%; time = 30 seconds
Section 2: speed = 100%; time = 20 seconds
Section 3: speed = 50%; time = 20 seconds

The program has the following limitations:

Speed: 5% to 100%
Time: 5 to 90 seconds

Total running time in a program cannot exceed 90 seconds, i.e., sum of the sections cannot be longer than 90 seconds.

NOTE: The MAX button will act as the enter key to proceed to the next step during the reprogramming process.

1. To enter new program, press both Speed Up and Speed Down buttons simultaneously while unit is in STANDBY mode. The blender will enter new programming mode and the LCD will prompt “ADD NEW PROGRAM.”
2. Next, you will need to set values. Press the Program button you want to replace (e.g., 1–4). The LCD will prompt “USE UP/DOWN TO SET SPEED: 25%.”

   NOTE: 25% is the default speed setting in the reprogramming mode.
3. Press Speed Up or Speed Down button to set the speed value. The increment is 1% (150 RPM). Press and hold the button to quickly scroll through speeds. The speed can be set between 5% and 100%.
4. Once desired speed is reached, press MAX button or wait 5 seconds to confirm setting. The LCD will now prompt “USE UP/DOWN TO SET TIME.” **NOTE:** Five seconds is the default time setting in the reprogramming mode.
5. Use Speed Up or Speed Down button to set the time value (up to 90 seconds). Once 90 seconds is reached, pressing Speed Up will not increase the value and the LCD will prompt “MEMORY LIMIT” for 2 seconds.
6. Press MAX button or wait 5 seconds to confirm the setting. When the blending time is confirmed, the LCD will prompt SELECT ANOTHER SPEED. Repeat steps 3–5 if additional processing is needed.
   NOTE: When pressing Speed Up or Speed Down buttons to set speed for next section, the LCD will prompt “USE UP & DOWN TO SET SPEED: 25%.”
7. To save the new program settings, press both Speed Up and Speed Down buttons simultaneously. The LCD will prompt NEW PROGRAM (PROG #) SAVED for 5 seconds. The blender will return to STANDBY mode and the LCD will prompt “PRESS ANY BUTTON TO BLEND.”

   NOTE: If no button is pressed within 60 seconds after prompt to “ADD NEW PROGRAM,” the blender will exit NEW PROGRAM mode and will return to STANDBY mode. The new program will not be stored.
8. To run new programs, simply press the desired Program button and the blender will run the program set by the user. The LCD will display NEW PROGRAM # and will count down the set time.

RESTORING FACTORY-SET BEVERAGE STATIONS

1. To restore factory-set default beverage stations, press both Speed Up and Speed Down buttons. LCD will prompt “ADD NEW PROGRAM.”
2. Press NORM button. LCD will prompt “RESTORE DEFAULT PROGRAMS.”
3. Press MAX button to confirm and save. The LCD will display the logo for 3 seconds.
4. The unit will return to STANDBY mode and the LCD will prompt “PRESS ANY BUTTON TO BLEND.”
   NOTE: The STOP key will abort this process at any point before restoring default programs is confirmed.

DRINK COUNTER

Your reprogrammable blenders are equipped with a drink counter to keep track of daily drink totals and total drink counts for your machine. To display the counts, hold program buttons 1 & 3 simultaneously for 3 seconds. Your display will read:

DAILY COUNT XXXX
TTL COUNT XXXXX

Daily Count will display the number of drinks mixed per day. Total Count is the accumulation of all drinks made since first use of the blender. The Daily Count can be reset by holding in Program buttons 1 & 3 simultaneously for 3 seconds, then pressing ON/OFF button for 3 seconds. Daily Count will reset to zero and Total Count will remain unchanged.

If Total Count needs to be reset, call your nearest Waring authorized service facility for information.

NOTE: Use of the PULSE features will not add to the daily or total drink counts.

RESETTING THERMAL PROTECTION

- The blender you have purchased is equipped with an automatic reset switch to protect the motor from overheating.
- If your blender stops running under heavy use, turn the power switch to the STANDBY or OFF position and unplug the power cord. Empty the blender container of all its contents and allow approximately 5 minutes for the motor to cool down.
- Plug the power cord back into the outlet and continue blending.

READY TO BLEND

1. Once your blender is properly programmed and your jar is placed on the blender base, you’re ready to start blending. Determine if you will be using the Ellipse drive in manual or auto mode. If manual mode is needed, press your desired timing. If AUTO START is needed, activate the drive by pressing the button for 3 seconds.
2. Close the sound enclosure lid.
3. Press the applicable blend station setting (1-4). The Ellipse will blend to your predetermined settings.

IMPORTANT — HOT BLENDING INSTRUCTIONS

NOTE: Not intended for use with the Ellipse blending system.

To minimize the possibility of being scalded when blending hot materials, the following precautions and procedure must be observed.

- Hot materials are those that are 100°F (38°C) or hotter.
- Limit the amount of materials processed to 1 pint.
- Completely remove the center portion of the two-piece container lid before starting motor (this will allow venting of the rapidly heated and expanded air inside the container when blender is running).
- Always start blending on lowest speed setting, and then progress to desired speed.
- Never stand directly over blender when it is being started or while it is running.

INSTALLING THE SOUND ENCLOSURE

NOTE: Your Ellipse blender comes with sound enclosure.
The sound enclosure was designed to further help reduce noise and vibration. The new sound enclosure will automatically activate the dasher system when closed in AUTO START mode.

1. The Ellipse base features three tabs that the sound enclosure will attach to. The three tabs are located on the left, right, and back of the jar pad.
2. Grab the bottom section of the rear sound enclosure housing. Align each tab on the blender base with the openings in the sound enclosure. You may need to pull the corners of the rear sound enclosure housing to fit it around the Ellipse base. This is normal in order to secure the enclosure around the tabs on the base.
3. Once attached, the sound enclosure should feel secure around the Ellipse base.

REMOVING THE SOUND ENCLOSURE

To remove the sound enclosure, unplug your blender and follow these steps:

1. Open the sound enclosure and remove the blending container if it is in place.
2. Remove the rear housing from the tabs around the blender base. Gently pull the left and right corners to disengage from the base.

TURNING OFF YOUR BLENDER

Whether your blender is in STANDBY mode, NEW PROGRAM mode, or the motor is running, pressing the ON/OFF ⏻ button will stop the unit from running and will turn the power off. The LCD display will turn off.

NOTE: All programs and current settings will be restored next time you turn unit on.

CLEANING AND SANITIZING INSTRUCTIONS

THE ELLIPSE PARTS MUST BE CLEANED AND DRIED AFTER EACH USE OF THE BLENDER ACCORDING TO THE FOLLOWING INSTRUCTIONS. FAILURE TO DO SO MAY ALLOW RESIDUE OF PROCESSED MATERIAL TO COLLECT ON THE INTERNAL SEALS OF THE BLADE ASSEMBLY, RENDERING THEM INEFFECTIVE.

ELLIPSE DRIVE

1. Always remove the Ellipse drive before cleaning.
2. Clean the Ellipse drive with a soft damp cloth.
3. Do not use any abrasive materials.
4. DO NOT submerge the Ellipse drive in water.

ELLIPSE DASHER SYSTEM



Lid



Dasher

1. The Ellipse dasher system (lid and dasher) need to be disassembled and cleaned after every use. Both the lid and dasher are dishwasher safe.

   NOTE: There are two rubber gaskets located on the lid that need to be removed and cleaned at the end of every service day or as needed. The first gasket is located around the outside of the lid and the second gasket is located underneath the lid. Both of the rubber gaskets are dishwasher safe.
2. Disassemble: In order to disassemble the dasher from the lid, gently press inward on the two locking tabs. This will disengage the dasher from the lid. Gently press down on the locking tabs pushing through the lid.

   NOTE: Please perform this operation over a sink or counter to prevent the dasher from falling and being damaged.

ELLIPSE JAR

1. Wash, rinse, sanitize, and dry container prior to initial use and whenever it will not be used again within a period of 1 hour.
2. Wash and rinse container after each use.
3. Clean and sanitize motor base prior to initial use and after each use.
4. Washing solutions based on non-sudsing detergents and chlorine-based sanitizing solutions having a minimum chlorine concentration of 100 PPM are recommended.

The following washing, rinsing, and sanitizing solutions, or their equivalents, may be used.

SOLUTION	PRODUCT	DILUTION IN WATER	TEMPERATURE
Washing	International Products Corporation LF2100 Liquid Low-Foam Cleaner	1%–2%: 1¼ – 2¾ ounce/gallon (lower dilution of 1% for normal cleaning and up to 2% for more stubborn soils)	Room temperature
Rinsing	Plain Water		Warm 95˚F (35˚C)
Sanitizing	Clorox® Regular Bleach (8.25% hypochlorite concentration)	2 teaspoons/gallon (alternately a bleach with 5.25% hypochlorite concentration can be used at dilution of 3 teaspoons/ gallon)	

- In repetitive batch-processing applications, frequent cleaning of the container will prolong the life of the blade assembly. In no case should actual running time between cleanings exceed ½ hour.
- Do not use container to store processed foods or beverages.

TO WASH AND RINSE CONTAINER:

1. REMOVE CONTAINER FROM MOTOR BASE. Remove Ellipse dasher system (lid and dasher). Rinse container interior and lid under running water. Add washing solution to container. Scrub and flush out the container interior to dislodge and remove as much food residue as possible. Empty container.
2. Wipe down exterior of container with a soft cloth or sponge dampened with washing solution. Fill container ¼ full with fresh washing solution, cover (with lid only), place on motor base and run on the highest speed for two (2) minutes. Empty container.
3. Repeat step (2) using clean rinse water in place of washing solution.

IMPORTANT

NOTE: IN ORDER TO MINIMIZE POSSIBILITY OF SCALDING, TEMPERATURE OF WASHING SOLUTION AND RINSE WATER MUST NOT EXCEED 115˚F (46˚C), AND QUANTITY USED MUST NOT EXCEED ¼ CONTAINER FULL.

TO SANITIZE AND DRY CONTAINER:

1. Wipe down exterior of container with a soft cloth or sponge dampened with sanitizing solution.
2. Fill container with sanitizing solution, cover, place on motor base, and run on high speed for two (2) minutes. Empty container. Dislodge any residual moisture from blade assembly by placing empty container on motor base and running on the highest speed for two (2) seconds.
3. Sanitize lid and lid insert by immersing in sanitizing solution for two (2) minutes.
4. Do not rinse container, lid, or lid insert after sanitizing is completed. Allow parts to air-dry.

TO CLEAN AND SANITIZE MOTOR BASE:

1. UNPLUG POWER CORD. Wipe down exterior surfaces of motor base with soft cloths or sponges dampened with washing solution, rinse water, and sanitizing solution. Prevent liquid from running into motor base by wringing all excess moisture from cloths or sponges before using them. DO NOT IMMERSE MOTOR BASE IN WASHING SOLUTION, RINSE WATER, OR SANITIZING SOLUTION.
2. Allow motor base to air-dry before using.

Any other servicing should be performed by an authorized service representative.

ELLIPSE BLENDER ACCESSORIES GUIDE

	MODEL	DESCRIPTION
	CAC119	Retainer Ring Wrench for CAC93X & CAC95 (to remove blending assembly from container)
*Recommended Maintenance: To ensure proper performance, replace every 3 to 6 months.		
	CAC187	Jar with Dasher, Lid, and Blade Assembly
	CAC188	Jar with Blade Assembly
	CAC192	Ellipse Dasher
	CAC193	Ellipse Lid (includes gaskets)
	CAC194	Ellipse Blade Assembly
	SE1500	Sound Enclosure Kit

ELLIPSE BLENDER ACCESSORIES GUIDE

	MODEL	DESCRIPTION
	CAC197	Ellipse Jar Pad
	CAC198	Jar Pad & Adaptor Ring
	CAC190	Complete Retrofittable Kit for MX Series Blender Bases
	CAC182	Coupling
	MXESD1	Docking Station
	MXECHG1	Single Charging Station
	MXECHG3	Triple Charging Station
	MXEDR	Ellipse Drive

LIMITED THREE-YEAR MOTOR WARRANTY
LIMITED TWO-YEAR WARRANTY

Waring warrants every new Waring® Commercial Blender to be free from defects in material and workmanship for a period of two years from the date of purchase when used with foodstuffs, nonabrasive liquids (other than detergents) and nonabrasive semi-liquids, providing it has not been subject to loads in excess of the indicated rating. In addition, the motor in this appliance has a full three-year warranty.

Under this warranty, Waring, during the warranty period, will repair or replace any part which, upon our examination, is defective in materials or workmanship, provided the product is delivered prepaid to the Waring Service Center at: 314 Ella T. Grasso Ave. Torrington, CT 06790, or any Factory Approved Service Center.

This warranty does not: a) apply to any product which has become worn, defective, damaged or broken due to misuse or due to repairs or servicing by other than the Waring Service Center or a Factory Approved Service Center, or due to abuse, misuse, overloading or tampering; or b) cover incidental or consequential damages of any kind.

The two-year warranty is applicable only to appliances used in the United States or Canada; this supersedes all other express product warranty or warranty statements. For Waring products sold outside of the U.S. and Canada, the warranty is the responsibility of the local importer or distributor. This warranty may vary according to local regulations.

Warning: This warranty is void if appliance is used on Direct Current (D.C.)

WARING COMMERCIAL
314 Ella T. Grasso Ave.
Torrington, CT 06790

DISPOSAL/RECYCLING OF BATTERIES

This product uses two Li-ion rechargeable and recyclable batteries. At the end of the batteries' useful life, they should be recycled. These batteries must not be incinerated or composted. Li-ion batteries should not be put in municipal waste systems. Contact your local waste collection agency for proper recycling and disposal information for your area. Please do not attempt to dismantle the power handle to replace these batteries on your own. Damage to the unit could result.

NOTES

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MXE2000 Series IB

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