

MIGHTY BLENDER PLUS

Mighty Blender PLUS Bottle container model

MT-BCPLUS

User's manual



OSAKA CHEMICAL CO.,LTD.

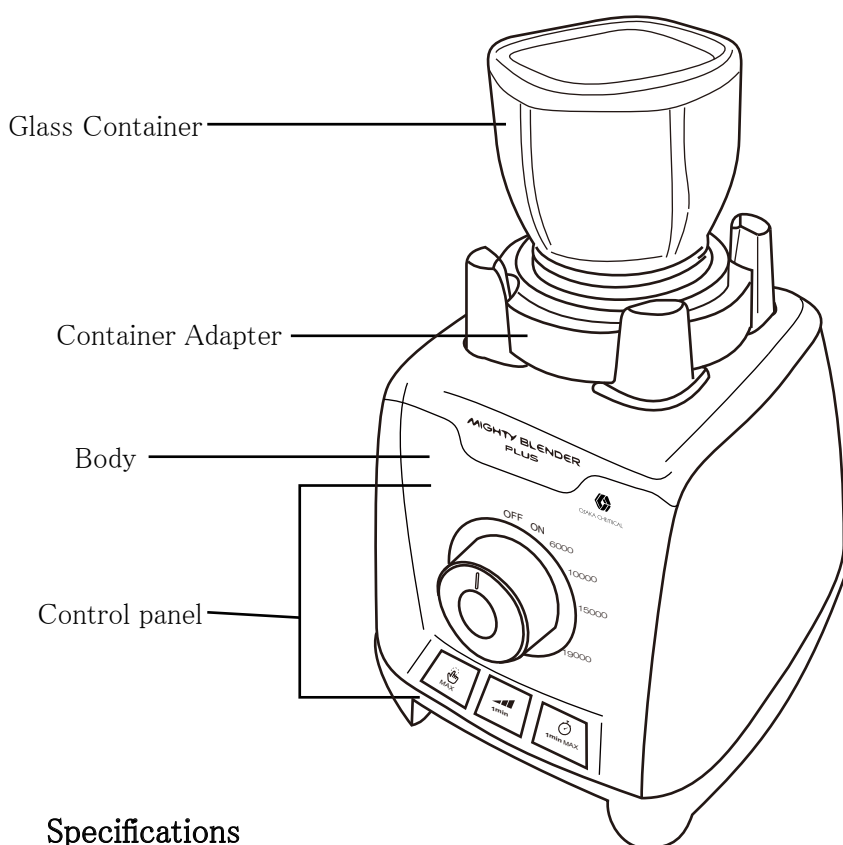
MIGHTY BLENDER PLUS

Thank you very much for purchasing Mighty Blender Plus.

Please read this manual carefully to ensure correct and safe use of this product.

Figure-A

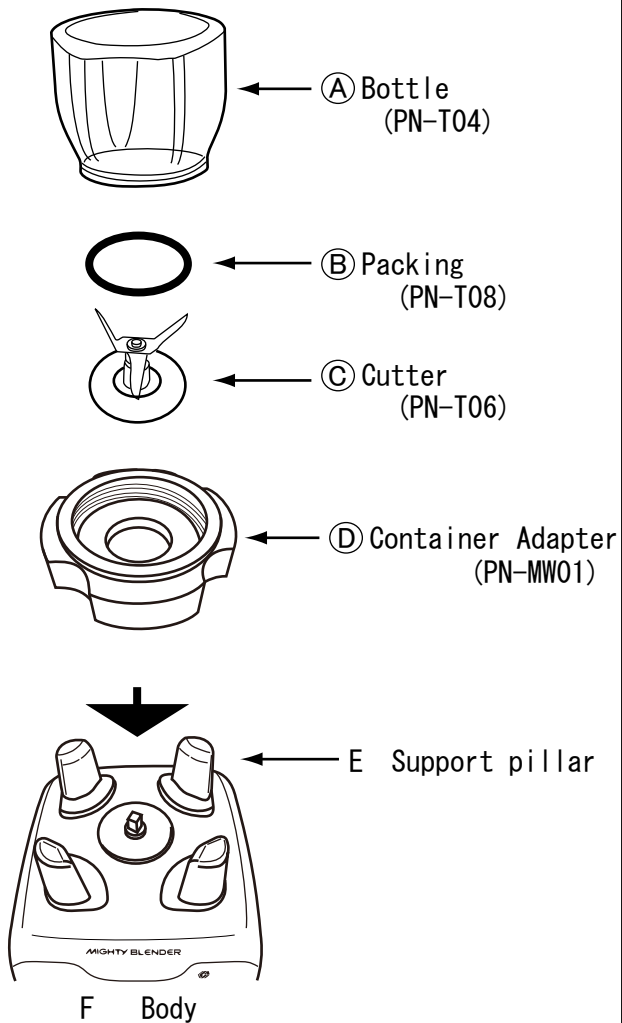
Part Names & Specifications



Specifications

P/N	MT-BCPLUS
Power	AC100V, 50/60Hz, 280W
Rated time	3 minutes (automatically stops after 3 minutes of continuous operation)
Rotation speed	6,000rpm ~ 19,000rpm
Dimensions	175 mm x 190 mm x 290 mm(H)
Weight	2.6 kg
Accessories	Container 250mL (Glass)、Cutter built-in container adapter set

Figure1



Bottle Blender

Assembly of container set

1. Put the sample into bottle **A** as shown in Figure 1 and Figure 2. At this time, the sample should be less than half of the container volume (approx. 250 mL).
2. Next, place the packing **B** on the top of the mouth of bottle **A**. (Figure 2, 2)
3. In addition, place the blade of cutter **C** inside the bottle. (3 in Figure 2)
4. At the end of the process, tighten the bottle firmly with the container adapter **D**. At this point, make sure that the screw port is screwed straight without any distortion. (Figure 2, 4)
5. After completing steps 1-4, turn the bottle set upside down and fit it inside the four support pillar of the body (E in Figure 1).

Figure2

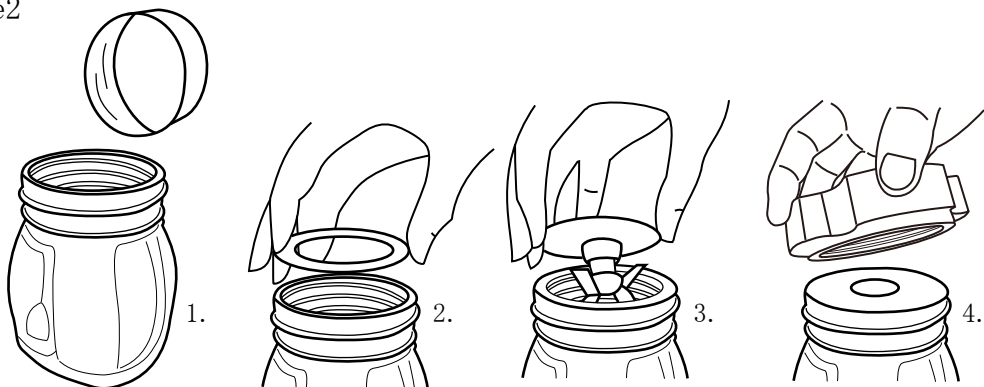


Figure-B
Control panel Drawings

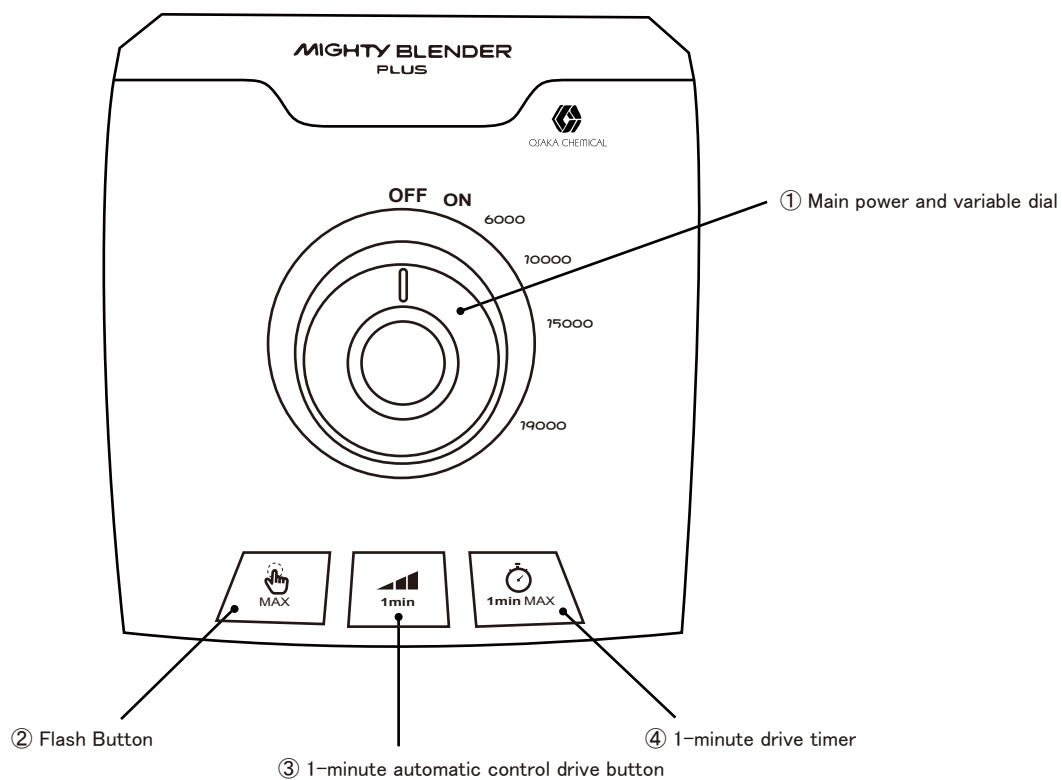
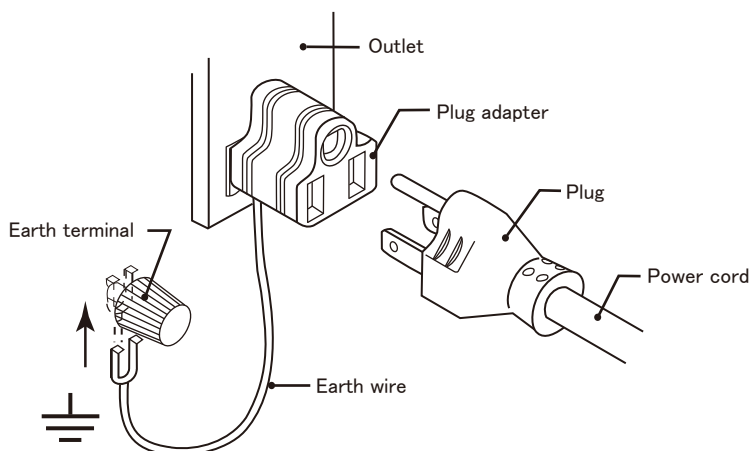


Figure-C
Power plug and cord



Operating instructions

- ◎ First, check that the dial ① on the main unit operation panel shown in Figure-B is set to the “OFF” position. (See Figure-B on page 3)
- ◎ Next, while referring to “Assembling the Container Sets” on page 2, put the sample into the glass container, assemble the container sets, and attach them to the “F Body” (see Figure-1 on page 2).
- ◎ The sample should be less than half of the container capacity. If the grinding process is overloaded or inefficient, the sample should be further reduced.
- ◎ Please refrain from using organic solvents or those that exceed the operating temperature range (5° C to 40° C).
- ◎ Once ready, insert the plug of the power cord into the power outlet. The plug of the power cord is three-pronged; if you have a two-pole outlet, please use the supplied plug adapter. In this case, be sure to ground the unit. (See Figure C on page 3)
- ◎ Turn the ON/OFF switch (①) to “ON” to start operation.
Especially at the start of crushing, the container may vibrate suddenly, so keep your hand on the top of the container to keep the machine stable.
- ◎ In addition, the flash button (2) operates at maximum speed (19,000 rpm) only while it is pressed.
- ◎ When you are finished, return the dial to the “OFF” position to stop operation.
Then, remove the plug from the power outlet.
- ◎ Make sure that the motor has completely stopped rotating before removing the container sets from the main unit. Please note that detaching the container sets before the rotation has completely stopped will cause wear on the shaft.
- ◎ After use, wash the container, cutter, packing, base, and other parts (do not use detergents other than neutral detergent) and dry them well before storing them. Do not wash them in a dishwasher or use a dryer. Also, please be careful when handling cutters with sharp edges.

【Preset Program Operation】

● 1-minute automatic controlled drive

After turning on the main power, press the “(3) 1-minute automatic control drive button”

to operate as follows.

~ 10 seconds: 6,000rpm operation

11 to 20 seconds: 10,000rpm operation

21 sec. to 30 sec.: 15,000rpm

31 sec. to 60 sec.: 19,000rpm

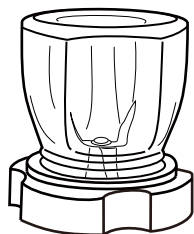
● 1-minute limited timer

After turning on the main power, press the “④ 1-minute drive timer button” to operate

at the maximum speed of 19,000 rpm and automatically stop the machine after 1 minute has elapsed.

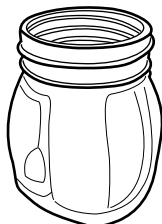
After operation is stopped, return the dial in ① to “OFF” .

Replacement Parts List



250mL Glass Container set

P/N: BC250M ¥26,000



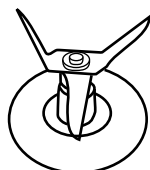
250mL Mini glass containers
5 pcs.

P/N: PN-T04 ¥26,000



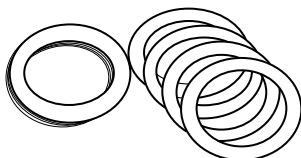
250mL Mini Styrofoam Containers
2 pcs.

P/N: PN-T05 ¥8,000



Stainless steel cutter

P/N: PN-T06 ¥4,900



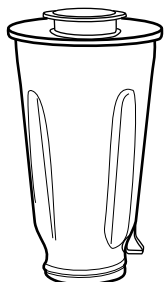
Silicon packing 10pcs.

P/N: PN-T08 ¥3,500



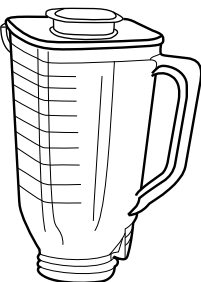
Container Adapter

P/N: PN-MW01 ¥12,000



1L SUS container

P/N: PN-T03 ¥12,000



1L Styrol container

P/N: PN-T02 ¥10,000

Cautions

- ◎ Do not alter the machine. It may cause accidental fire, electric shock, or injury.
- ◎ Do not use the product if the power cord or plug is damaged or if the plug is loose.
It may cause electric shock, short circuiting, or ignition.
- ◎ Never immerse the main unit in water or splash water on it.
It may cause electric shock or short circuit.
- ◎ Do not crush very hard samples such as stone, or highly fibrous samples such as mushroom.
It may cause damage.
- ◎ When using glass containers, do not make rapid cooling or heating with a temperature difference of 40° C or more between descending and ascending temperatures.
It may cause breakage.
- ◎ Please operate on a flat, stable place.
- ◎ Be sure to disconnect the power plug from the outlet before setting or removing the container.
- ◎ Never operate the machine without a sample in it.
- ◎ Do not use outdoors.
- ◎ The cutter inside the container is sharp and can be dangerous, so please handle it with caution.
- ◎ When performing a test operation, please fill the container about a half-full of water.
- ◎ Each operation should last no longer than 3 minutes. For continuous use, stop the machine for a while (10 to 15 minutes) after 3 minutes of operation, and then run it again.
If continuous operation is repeated, the motor temperature rises, which may cause a breakdown due to circuit meltdown.
The machine will automatically stop after 3 minutes of continuous operation.
- ◎ When pulverizing, please do not use the equipment in an environment where the pulverized powder or other materials are scattered around the equipment.
If the machine is used in such an environment, the powder may get inside the chassis and cause malfunctions. Please clean the area around the machine frequently.



〒530-0045

5-17, TENJIN NISHIMACHI, KITAKU, OSAKA, JAPAN

TEL +81-6-6311-1050 FAX +81-6-6311-1070

E-mail: info@daichem.co.jp

<http://www.daichem.co.jp>