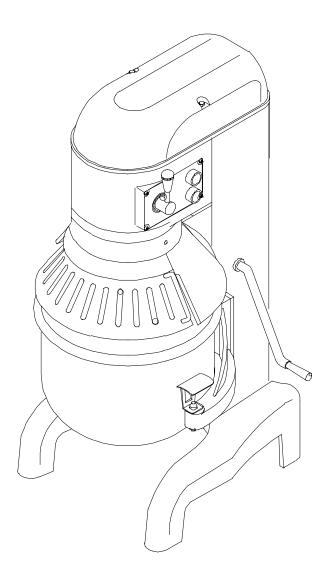
# INSTALLATION / OPERATION MANUAL

## **BM10 Planetary Mixer**



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Date Purchased	Serial No
Dealer	
Service Agent	

#### Introduction

We are confident that you will be delighted with your PARAMOUNT MIXER, and it will become a most valued appliance in your commercial kitchen.

A new mixer can seem very complex and confusing at first glance. To ensure you receive the utmost benefit from your new Paramount, there are two important things you can do.

#### **Firstly**

Please read the instruction book carefully and follow the directions given. The time taken will be well spent.

#### Secondly

If you are unsure of any aspect of the installation, instructions or performance of your oven, contact your Paramount dealer promptly. In many cases a phone call could answer your question.

The Paramount BM10 is a dependable mixer for kneading and mixing all kinds of dough, egg, cream, cookies, mayonnaise etc. The mixer works smoothly and reliably. There are 3 speeds and various style attachments which can be selected to obtain the best results. These are made of alloy aluminum or they're of food hygiene standard.

This model Mixer is equipped with a powerful  $^{1}/_{3}$  HP motor and strong belt & gear drive design. The gears are made of hardened alloy steel and a hardened steel worm wheel. A stainless steel safety guard or a timer is available on all models.

With proper operation and maintenance this mixer will give you years of service, and obtain the best results.

#### **Safety Precautions**



Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death.

Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment. Failure to do so may result in serious injury or damage.

- Keep hands and clothing away from the bowl and hob attachments when in operation.
- Keep rigid objects away from the bowl and hub attachments when in operation.
- Do not use this machine for any applications other than food processing.
- Use the machine only with the electrical supply specified on the rating plate.
- Disconnect the machine from its power source before carrying out any maintenance.
- Do not disable or remove any of the safety mechanisms included with this machine.
- Do not leave the machine in operation unattended.
- Observe all maintenance and safety inspection schedules.
- Ensure the machine and any accessories / attachments are in stable, upright position before operating.
- Ensure all safety features of the machine are fitted and operate correctly within the safety requirements and procedures before operating the machine.

#### **Motor**

<sup>1</sup>/<sub>3</sub> HP (0.25kW) powerful, ball bearing, ventilated within mixer enclosure.

#### **Electrical Supply**

230-240 Volts AC, 50Hz, 1P+N+E.

#### **Transmission**

The gears are constantly mesh in a special lubricant assuring long life; transmission gears are of heat treated alloy steel, high accurate construction. All bearings are ball bearings. Positive timing belt drive eliminates slip and speed variation.

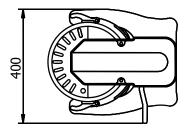
#### **Timer**

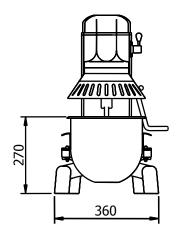
The 15 minute timer will stop the mixer when the desired time has elapsed.

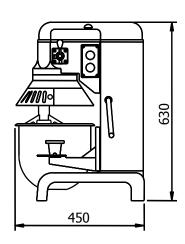
#### **Safety Guard**

Stainless steel safety guard smoothly rotates open. Fitted with a limit switch to shut off power immediately to protect operator.

#### **Dimensions**







Model	Bowl Capacity	Motor Power	Net Weight (approx.)	Agitator Speed (RPM)	
BM10AT 10 litres 1/3 HP (0.25kW) 6	62 Ka	Low	Med	High	
	10 110 125	/ <sub>3</sub> ПР (U.25KW)	62 Kg	112	202



Before installing the mixer, check that the available electrical supply match that of the mixer as stated on the mixer's rating plate.

#### Unpacking

Immediately after unpacking the mixer, check it for possible shipping damage. If this machine is found to be damaged after unpacking, save the packaging material and contact the carrier within one day of delivery.

#### Location

Place the mixer in its operating location - this should be a sturdy level surface. There should be adequate space around the mixer for the user to operate the control and install and remove bowls.

Holes are provided in the base to permanently secure the mixer, although this not necessary in normal installations.

Floor models must be leveled front-back and side-to-side by sliding shims under the legs as required.

#### **Electrical Connection**

The supply cord on this machine is provided with a three-pin 13A fused and earthed plug. It is imperative that the outlet to which this plug is connected be properly earthed (grounded).

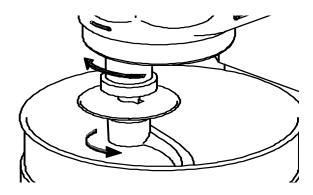
Prior to installation, test the electrical service to assure it agrees with the specifications on the machine data plate located on the back side of the pedestal.

Permissible voltage fluctuation is  $\pm$  10% of nominal voltage.

Components having adjustments protected (e.g. paint sealed) by the manufacturer, are only allowed to be adjusted by an authorised service agent.

#### **Rotation**

To start the motor, push the 'ON' button. The speed selector handle must be at one of the numbers indicating a speed, not an intermediate rating.



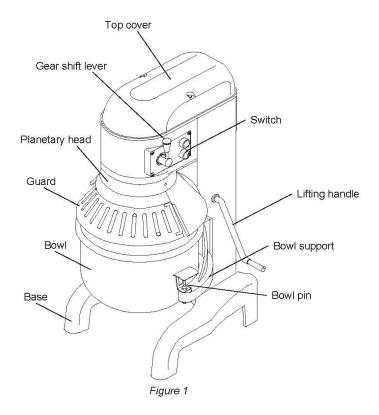


Keep hands, clothing and utensils out of the bowl whilst the machine is in operation. Failure to follow the operation instructions or improper use of the mixer may result in damage to the mixer, or cause injury to the operator.

#### **Important:**

Great care must be taken to minimise dust emission when handling dry ingredients such as flour. Bags should opened in the lower part of the bowl and poured from as close to the base of the bowl as possible.

It is recommended that ingredients suppliers' hazard data sheets are consulted prior to use. The use of respiratory protective equipment during loading of the bowl may be required.



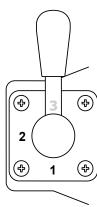
#### Controls

All models are furnished with an 'ON' - 'OFF' switch which controls power to the mixer.

The TIMER is used in conjunction with the 'ON' - 'OFF' switch for timed mixing operations and will stop the mixer when the desired timed has elapsed.

The GEAR SHIFT LEVER is used to change speeds. Always stop the mixer before changing speeds. To change speeds, turn the switch 'OFF', move the gear shift lever to the desired speed, and turn the switch back 'ON'.

- **Speed 1 (Low)** This speed is for heavy mixtures such as bread dough, heavy batters, and potatoes.
- **Speed 2 (Medium)** This speed is for light dough which must rise quickly, heavy batters, and some whipping operations.
- **Speed 3 (High)** This speed is fast speed for light work such as whipping cream, beating eggs, and mixing thin batters.



#### **Mixing Bowl / Agitators**

New mixers bowls and agitators (beaters, whip, and dough arms) should be thoroughly washed with hot water and mild soap solution, rinsed with either a mild soda or vinegar solution, and thoroughly rinsed with clean water BEFORE being put into service. This cleaning procedure should also be followed for bowls and agitators before whipping egg whites or whole eggs.

#### **Fitting the Bowl**

The bowl must be installed before the agitator. To install the bowl, fully lower the bowl support (Fig. 1). Position the bowl so the alignment bracket on the back of the bowl is in the bowl retainer and the alignment pins on the front of the bowl support fit in the holes on the sides of the bowl.

#### **Fitting the Agitators**

To install an agitator, the bowl must be installed and fully lowered. Place the agitator in the bowl, push it up on the agitator shaft, and turn it clockwise to seat the shaft pin in the slot of the agitator shank.

#### **Dough Arm**

It is frequently used for heavy bread dough, and preferable to be use at low speed.

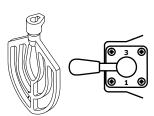
The moisture content of heavy dough is a critical when selecting proper mixing speed. Never use 2<sup>nd</sup> speed when mixing heavy dough with an Absorption Ratio (AR) of 50% or less.





#### **Beater**

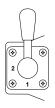
It is commonly used for thin batters, cake and mashing potatoes, like stuffing and preferable to be used at middle speed.



#### Whip

It is best for whipping cream and beating eggs and preferable to be used at high speed.





#### **Mixing Heavy Dough**

The moisture content of heavy dough is a critical factor when selecting proper mixing speed. Never use  $2^{nd}$  speed when mixing heavy dough with an Absorption Ratio (AR) of 50% or less. To determine the Absorption Ratio (AR) of a product, the water weight divide by the flour weight.

**Example:** Calculate the Absorption Ratio of a mixture containing 5 lbs. of water and 10 lbs. of flour.

$$AR = 5 \div 10 = 0.50 = 50 \%$$

Product	Agitator	BM1	LOAT
Egg Whites	Whip	600 ml	
Mashed Potatoes	Beater	4.5 kg	
Mayonnaise (Litres Oil)	Beater	4	ltrs
Meringue (Litres Water)	Whip	0.75	5 ltrs
Waffle/Pan cake Batter	Beater	5	ltrs
Whipped Cream	Whip	2	ltrs
Sheet Cake Batter	Beater	4.5	i kg
Cup Cake	Beater	10 doz.	
Layer Cake	Beater	4.5 kg	
Pound Cake	Beater	4.5 kg	
Sugar Cookie	Beater	20 doz.	
Bread or Roll Dough (Light / Medium, 60% AR) †	Hook *	Water 0.7 kg	Flour 1.1 kg
Bread or Roll Dough (Heavy, 55% AR) †	Hook *	Water 0.5 kg	Flour 0.9 kg
Thick Pizza Dough (60% AR) †	Hook *	Water 0.25 kg	Flour 0.4 kg
Raised Donut Dough (65% AR)	Hook *	Water 0.6 kg	Flour 0.9 kg
Whole Wheat Dough ( 70% AR)	Hook **	Water 0.65 kg	Flour 0.9 kg

<sup>\* 1&</sup>lt;sup>st</sup> speed only.

<sup>\*\* 1</sup>st speed & 2nd speed only.

<sup>&</sup>lt;sup>†</sup> If high gluten flour is used, reduce above dough batch size by 10%.

#### **Cleaning Guidelines**

#### CAUTION:

ALWAYS TURN OFF THE POWER SUPPLY BEFORE CLEANING OR MAINTENANCE
THIS UNIT IS NOT WATER PROOF.

DO NOT USE WATER JET SPRAY TO CLEAN INTERIOR OR EXTERIOR OF THIS UNIT.

The mixer should be thoroughly cleaned daily with a clean damp cloth and plastic scraper metallic implements are not recommended.

Never use a metal or stiff brush to clean the mixer. Never clean the mixer with a water hose or any fluid pressure.

Bowls and agitators should be removed from the mixer and cleaned in a sink. The bowl guard should be removed periodically and wiped clean.

#### **Maintenance Guidelines**

The **transmission case** and **planetary mechanism** should be inspected weekly for leaks, damage, etc. Should it become necessary to repack the ball bearings, an authorized service technician or the manufacturer should be contacted. Use of unproved grease or lubricants may lead to damage and void the unit's warranty.

The **bowl lift slides** should be lubricated every six months, or more often under heavy usage. Disconnect the unit from the power supply before removing the top housing or apron.

The **drip cup** should be inspected periodically for moisture or lubricant dripping. Remove the cup and wipe it with a soft cloth.

Any parts found to be damaged, defective or worn out should be replaced immediately.

### **Guide Sheets for Staff Training**

The pages in the following section of this manual should be copied and used when training staff to operate the Paramount mixers. It is suggested that the competency assessment checklists be completed, signed, and a copy kept in the personnel files for future reference.

#### **Supervisors to Ensure**

- Competency check lists are copied and completed as part of the training of staff.
- Correct training of staff to the required competency expectations.
- The verification section of the competency check list is signed off.
- A copy of the completed and signed competency check list is placed in personnel records as evidence of operator competence.

**Paramount Planetary Mixer** 

Element:	Implement safe work procedures			
√ Asses	ssment Criteria			
Identif	the operator"  Ty the purpose and use of: quipment guards.  Varning signs. Tafety features.  Id to this equipment?			
	y: lachine-related health and safety risks of this equinoring mergency procedures to be used with this equip			
Operat	e this equipment correctly in normal and emerge	ency situation	s?	
Identif  ● O	y: vH&S reporting procedures related to hazard rep	orting for this	machin	e?
Comments	<b>S:</b>			
	tency in the use of the <b>PARAMOUNT PLAN</b> e operator has consistently applied the knowledg			
This form should be signed off only when the assessor is satisfied that the employee/trainee is competent to carry out all of the tasks described above.				
Applicar	nt's signature:	_ Date:	1	1
Assesso	r's signature:	_ Date:	1	1



## Paramount Planetary Mixer Element: Implement essential hygiene and sanitation procedures.

$\checkmark$	Assessment Criteria	
	" <b>Can the Operator</b> " Maintain sound personal hygiene at all times when wo	rking with the <b>PARAMOUNT MIXER?</b>
	Use appropriate protective and work clothing while wo	rking with the <b>PARAMOUNT MIXER?</b>
	Identify:  • Product handling requirements during production • Critical points in the process where contamination • Why it is important to monitor hygiene and sanita • The effect of poorly maintained equipment on the • Company policies and procedures regarding hygie • Actual and potential contamination and spoilage procedures to rectify contamination and spoilage procedures.	n can be introduced? Sation performance? Se control of contamination and spoilage? Sene and sanitation? Shazards?
	Use work practices and methods that reduce the risk of	f product contamination?
	Remove contamination where appropriate in accordance Workplace hygiene and sanitation procedures?  • Procedures specific to the <b>PARAMOUNT MIXER</b>	
Com	ments:	
	n competency in the use of the <b>PARAMOUNT PLANETA</b> d that the operator has consistently applied the knowledge	
	This form should be signed off only when the employee/trainee is competent to carry out all of	
	Applicant's signature:	_ Date: / /
	Assessor's signature:	_ Date: / /



The following risk assessment covers the reasonably foreseeable hazards to health and safety arising from the mixer and from systems of work associated with this machine.

Hazard Identified	Existing Controls	Consequences	Likelihood	Risk Rating
Cleaning the machine with buckets of water or hoses is extremely dangerous and may lead to electrocution. The machine must be cleaned with a damp cloth only.	Safe work cleaning practices included in training manual local workplace rules and management.	Catastrophic	Rare	High
Microswitch on safety guard should never be removed nor tampered with otherwise machine could continue working with moving parts exposed.	Safe work guidelines reinforce non-authorised tampering with the machine. Access to microswitches service item only.	Major injuries	Rare	Moderate
Electrical isolation switch should be fully accessible to the operator. Recommend no more than 1.5 metres above the floor and within easy access by the operator.	Dependent on bakery electrical policy.	Major injuries	Rare	High
Safety guard should not be removed.	Microswitch interlocked with machine - controls will not operate.	Major injuries	Unlikely	Moderate
Service panels should not be removed whilst the machine is in operation nor still connected to the power supply. The machine must not be operated with any service access panel removed.	Machine designed to be accessed by authorised service technicians only. Warning signs clearly evident.	Major injuries	Unlikely	Moderate
Hands or arms should not be placed behind bowl whilst the machine is in operation.	Safe operating procedure reinforces this not to be done. Warnings in place.	Minor injuries	Unlikely	Low
Hands should never be placed near dough hook whilst in motion.	Bowl guarded during operation. Safe operating procedures highlight safe work.	Major injuries	Unlikely	Moderate
Cleaning of the machine should not take place whilst it is in operation nor still connected to the power supply.	Correct cleaning procedure detailed in training procedure.	Major injuries	Unlikely	Moderate
The machine should never be connected to alternate power source other than that which it has been designed for and specified within this manual.	External plug designed to Australian / New Zealand standards for the appropriate power supply. Warnings in manual.	Major injuries	Rare	Moderate

**Risk Rating** Extreme Risk Immediate action required.

High Risk Senior management attention required.

Moderate Risk Management responsibility must be specified.

Low Risk Manage by routine procedures.

Based on AS4360 1999 Risk Management.

#### Owners and Operators of Paramount Equipment Please Note:

The risk ratings and control measures as outlined in this manual must be incorporated into your safety management systems and procedures. Ensure effective risk control by reinforcing these procedures with staff. For example: never clean any electrical equipment with buckets of water or pressurised hoses.

#### **Replacement Parts List**

#### **IMPORTANT:**

Only genuine authorized replacement parts should be used for the servicing and repair of this appliance. The instructions supplied with the parts should be followed when replacing components.

For further information and servicing instructions, contact your nearest authorized service branch (contact details are as shown on the reverse of the front cover of this manual).

When ordering replacement parts, please quote the part number and the description as listed below. If the part required is not listed below, request the part by description and quote model number and serial number which is shown on the Rating Plate located on the front lower corner of the right hand side panel.

Part No.	Description		
BM10-12-001	Stainless Steel Bowl.		
BM10-12-003	Aluminium Hook.		
BM10-12-004	Stainless Steel Wire Whip.		
BM10-12-002	Batter Beater.		

