



INSTRUCTION MANUAL



Skyfood Equipment LLC

OFFICE

11900 Biscayne Blvd. Suite 512 - North Miami, FL 33181 - USA

1-800-503-7534 | 305-868-1603

UG0160 - INGLÊS

Data de Correção: 30/05/2014

- BESIDES THIS EQUIPMENT, A COMPLETE RANGE OF OTHER PRODUCTS ARE MANUFACTURED, CONSULT OUR DEALERS
- DUE TO THE CONSTANT IMPROVEMENTS INTRODUCED TO OUR EQUIPMENTS, THE INFORMATION CONTAINED IN THE PRESENT
INSTRUCTION MANUAL MAY BE MODIFIED WITHOUT PREVIOUS NOTICE.

www.skyfood.us

PLANETARY MIXER
SPM30

1.2 Technical Characteristics

TABLE 01

CHARACTERISTICS	UNIT	SPM30
Voltage	V	110
Frequency	Hz	60
Power Rating	HP	1
Consumption	kW.h	0,73
Height	in	44
Width	in	23
Depth	in	23
Net Weight	lb	407
Shipping Weight	lb	495
Bowl Capacity	quart	30

Warranty Registration



Questions about how to complete this form?

Call 1-800-503-7534 / 305-868-1603

Return completed form to:

SKYFOOD EQUIPMENT LLC
11900 Biscayne Blvd. Suite 512
North Miami, FL 33181 - USA

Or fax form to:

305-866-2704

IMPORTANT:
Only for products of the trademark: and

User Details

* Contact Person: _____

* Business type:

- | | |
|--|---|
| <input type="checkbox"/> Bakery and Bagel Operations | <input type="checkbox"/> Mass Merchandiser with Grocery |
| <input type="checkbox"/> Bakery (Associated with Restaurant) | <input type="checkbox"/> Mass Merchandiser with NO Grocery |
| <input type="checkbox"/> Bowling Center | <input type="checkbox"/> Meat Packer and Purveyor |
| <input type="checkbox"/> Business and Industry In-House Feeding | <input type="checkbox"/> Other Business that prepares or serves food |
| <input type="checkbox"/> Butcher | <input type="checkbox"/> Other Business that sells but doesn't serve food |
| <input type="checkbox"/> Catering | <input type="checkbox"/> Pizza (Dine In / Carry Out) |
| <input type="checkbox"/> Club Stores | <input type="checkbox"/> Restaurants (Independent / Chain) |
| <input type="checkbox"/> Convenience Store | <input type="checkbox"/> School |
| <input type="checkbox"/> Country Club | <input type="checkbox"/> Stadiums / Coliseum |
| <input type="checkbox"/> Delicatessen (Chain / Restaurant) | <input type="checkbox"/> Supermarket / Grocery |
| <input type="checkbox"/> Delicatessen (Independent and Non-Restaurant) | <input type="checkbox"/> Theme Park |
| <input type="checkbox"/> Food Store | <input type="checkbox"/> University / College |
| <input type="checkbox"/> Government | <input type="checkbox"/> Vineyard / Winery |
| <input type="checkbox"/> Hospital | <input type="checkbox"/> Warehouse Clubs |
| <input type="checkbox"/> Lodging | <input type="checkbox"/> Wholesale Baking Operation (Non-Institutional) |

* Company Name: _____

* Address: _____

* City: _____

* State: _____ * Zip Code: _____

* Phone: _____ Fax: _____

** E-mail: _____

Web page: _____

- I would like to join the Mail List. I would like to join the E-mail List.

Product Details

* Product Commercial Item: _____

The Product Commercial Item can be found on the machine Product Identification Label.

* Serial Number: _____ * Confirm Serial Number: _____

This information, the Product Serial Number, can also be found on the machine Product Identification Label.

* Proof of Purchase: Yes
 No

* Purchased On: _____ / _____ / _____ (mm / dd / yyyy)

* Purchased From: _____
Company Name

* Indicates required field. ** Indicates required field, not mandatory by Fax.

remedy for breach of any warranty is limited to the remedies provided in the paragraph above.

All products held at non-commercial facilities or domiciles, must be taken or shipped, shipping charges prepaid, either to SKYFOOD's facility or a SKYFOOD's designated service company ("Service Company"). Products held at commercial facilities and weighing less than seventy (70) lbs. must be taken or shipped, shipping charges are prepaid, either to SKYFOOD's facility or to a Service Company. Mileage or travel time will NOT be paid. SKYFOOD offers a limited on-site warranty for products ONLY held at commercial facilities, whose net weight exceeds seventy (70) lbs., provided they are installed in a location that is within a thirty (30) mile radius of a Service Company. **End Users are responsible for all extra travel and mileage rates.** In this case, warranty services will be provided during regular business hours.

This product will be replaced or repaired under warranty, for a period of (1) year, beginning from the date of purchase by the original purchaser/user ("End User"), or eighteen (18) months from the date of shipment from SKYFOOD's warehouse, whichever expires first.

Accessories will be replaced or repaired under warranty, for a period of (30) days, beginning from the date of purchase by the original purchaser/user ("End User"), or eighteen (18) months from the date of shipment from SKYFOOD's warehouse, whichever expires first.

This warranty shall not take effect until a properly completed and executed **WARRANTY REGISTRATION** form has been received by SKYFOOD EQUIPMENT, LLC, within thirty (30) days from the date of purchase. The **WARRANTY REGISTRATION** is available either in the Instruction Manual of every Product or at SKYFOOD's website www.skyfood.us. The End User must fill out the **WARRANTY REGISTRATION** form and send it to SKYFOOD according to the instructions posted on the referred website. **Failure to do so will VOID the warranty.**

No extended warranties for third party products. There are no other express warranties or conditions other than the one offered by each manufacturer for products sold by SKYFOOD, not under the FLEETWOOD by SKYMSSEN and SKYMSSEN brand.

For questions or assistance, do not return the product or accessories to the store, please call Toll Free 1-800-503-7534, or visit the Customer Service section at www.skyfood.us. For faster service please have the items name, serial number, and proof of purchase for the operator to assist you.

SKYFOOD reserves the right to change the terms of its limited warranty at any time without any prior notice. It also reserves the right to change the design and specifications of its equipment or any related documentation at any time. The end user is not entitled to upgrades or refunds resulting from these changes.

Updates

These **Terms and Conditions** were last updated on January 14th, 2014.

2. INSTALLATION

2.1 Unpacking

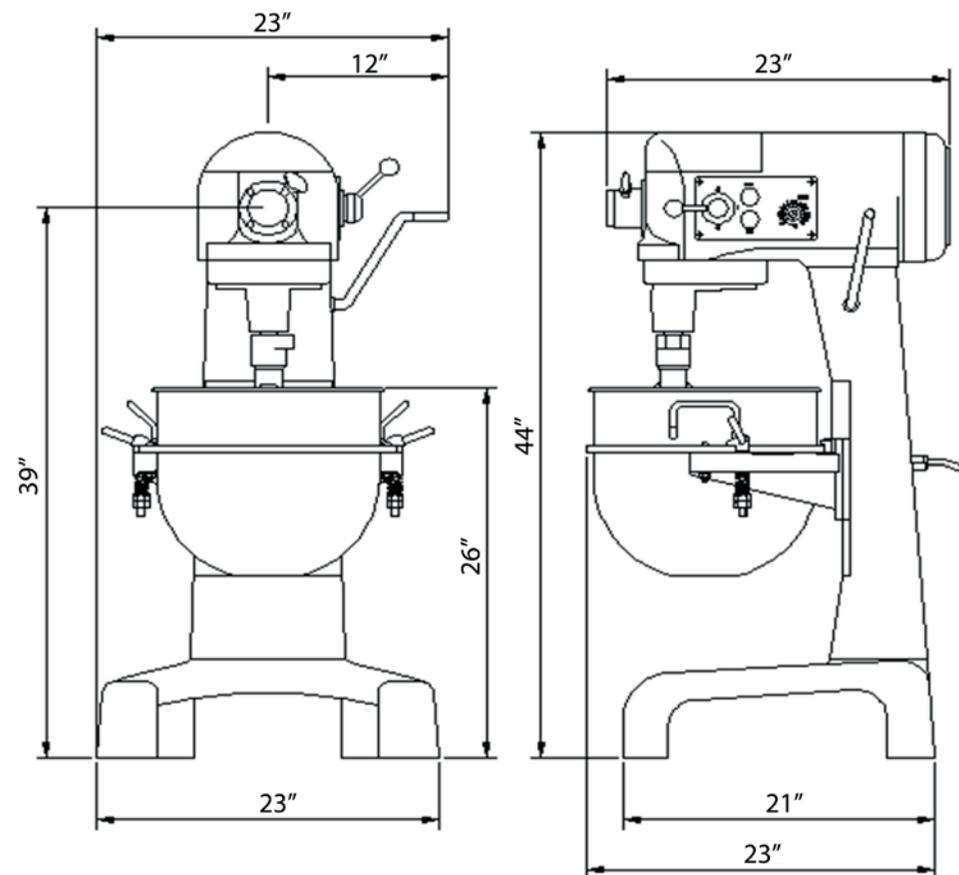
Immediately after unpacking the mixer, check it for possible shipping damage. If this machine is found to be damaged after unpacking, save the packaging material and contact the carrier within 15 days of delivery.

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

2.2 Location

Place the mixer in the convenient location. There should be adequate space around the mixer for the user to operate the control and install and remove bowls.

PICTURE 01



2.3 Electrical Connections - Cord Connected Mixers

This supply cord on this machine is provided with a three-prong grounding plug. It is imperative that the outlet to which this plug is connected be properly grounded. If the receptacle is not the proper grounding type, an electrician should be contacted.

IMPORTANT

A 3 phase mixer should check mixing rotation when electrical connected.

IMPORTANT

Operator has to be minimum of 18 years old to work with the mixer. The operator should be properly trained in accordance to the operation and care booklet.

SKYFOOD EQUIPMENT LLC - SERVICE

For questions or assistance with products **FLEETWOOD by SKYSEN** and **SKYSEN**, call SKYFOOD EQUIPMENT Toll Free: **1-800-503-7534**, 24h Customer support, or visit the Customer Service section of www.skyfood.us.

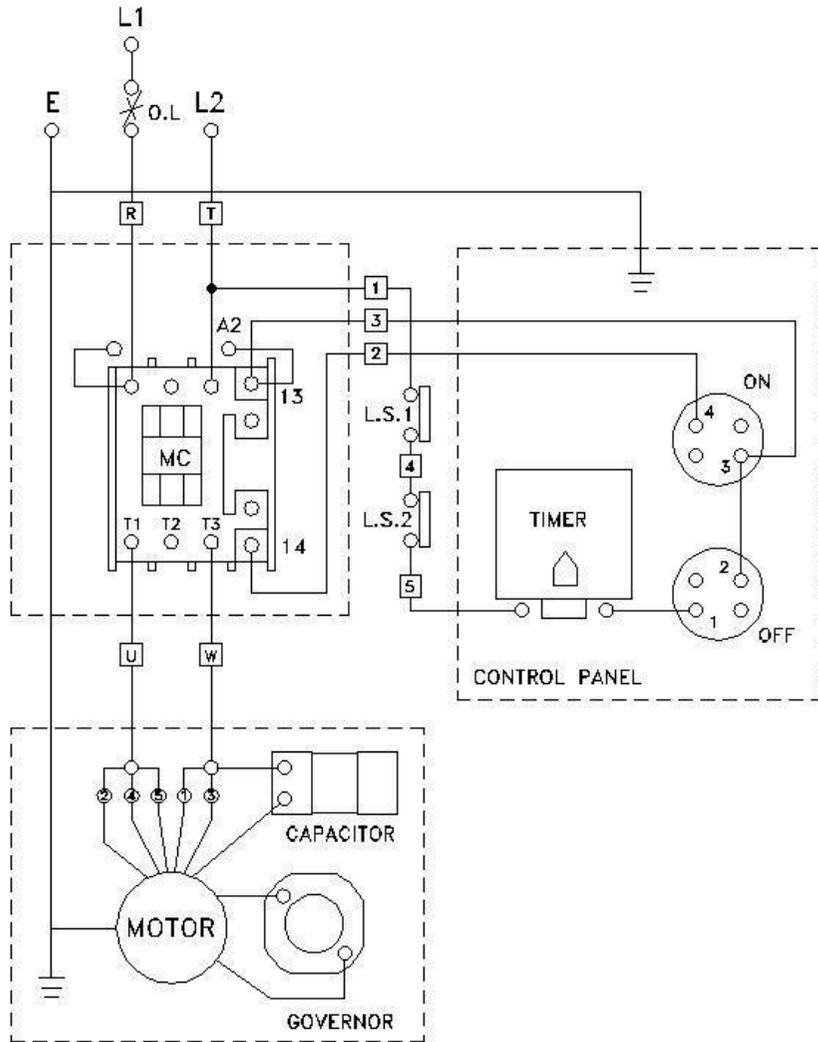
SKYFOOD'S LIMITED WARRANTY

Unless otherwise specified, new **FLEETWOOD by SKYSEN** and **SKYSEN** products, excluding accessories, sold by SKYFOOD EQUIPMENT, LLC. ("SKYFOOD"), for use only in the continental United States (collectively, "Products" or singularly, "Product"), are warranted to be free from defects in materials and workmanship for a period of one (1) year from the date of purchase by the original purchaser/user ("End User"), or eighteen (18) months from the date of shipment from SKYFOOD's warehouse, whichever expires first. Several new products and accessories may be warranted for a period other than one (1) year while others may be subject to travel limitations, as specified on the products Instruction Manual. **Proof of purchase must be presented; if not this warranty will be VOID.** No warranty is given or implied to a subsequent transferee or any other third party. This warranty is expressly conditional upon SKYFOOD being notified of any defects in materials or workmanship within five (5) days of its occurrence, within the warranted time period. If a notice of a claim under this warranty is timely made by the End User, SKYFOOD or a SKYFOOD's designated service company ("Service Company"), will repair or replace the Product, at SKYFOOD's discretion, subject to the additional conditions hereinafter described.

This warranty shall not apply if damage occurs from improper installation or maintenance performed by an unauthorized service company ("Service Company"), wrong voltage, nor to the extent that Products or parts have been used other than in conformance with operating and maintenance instructions, subjected to misuse or abuse or damaged by accident, acts of God, abnormal use, stress or any other matter unrelated to SKYFOOD, and beyond its reasonable control. **This warranty does NOT cover service labor and travel to perform adjustments on products and/or accessories.** In addition to wear and tear of certain items, such as, but not limited to; glass parts, blades, stones, chopper cutting knives, plates, slicing knives, cutting disc, gaskets, oil changes, sealing tape, heat seal wires, worm gears, self-lubricating bushings, carbon brushes for electric motors, and other parts expendable by nature and that need to be replaced frequently. **Electrical components are subject to natural wear and tear, and are NOT covered by this warranty. THIS WARRANTY EXCLUDES ALL ORAL, STATUTORY, EXPRESS OR IMPLIED WARRANTIES WHICH MAY BE APPLICABLE TO SKYFOOD, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE.** Under no circumstances shall SKYFOOD be liable for loss of use, revenue or profit or for incidental or consequential damages. SKYFOOD shall under no circumstances be liable for any loss, damage, concealed damage, expense or delay of goods for any reason when said goods are in the custody, possession or control of third parties selected by SKYFOOD to forward, enter, clear, transport, or render other services with respect to such goods. The sole and exclusive

7. ELECTRIC DIAGRAM

SINGLE PHASE MODELS



3. OPERATION

IMPORTANT

Moving agitator in bowl. Keep hands, clothing, and utensils out while in operation.

The SPM30 Mixer is furnished with 2 BUTTON SWITCHES which control power to the mixer.

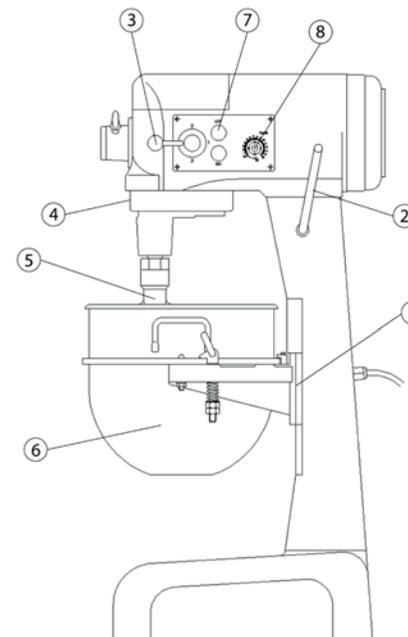
The GEAR SHIFT LEVER (No.3) is used to change speeds. Always stop the mixer before changing speeds. To change speeds, turn the switch OFF, move the gear shift lever to the desired speed, and turn the switch back ON.

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 mixtures such as whipping cream, beating eggs, and mixing thin batters.

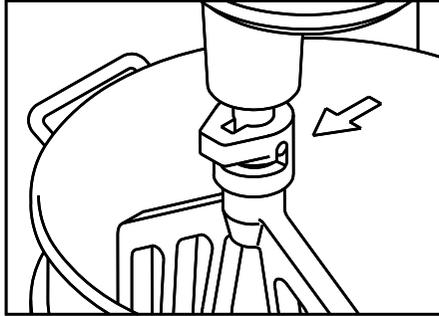
PICTURE 02



1. BOWL LIFT SLIDEWAY
2. BOWL LIFT HANDLE
3. SPEED CONTROL
4. DRIP CUP
5. AGITATOR
6. BOWL
7. ON/OFF SWITCH
8. TIMER

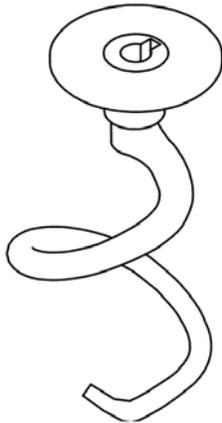
3.1 Agitator

To install an agitator (no 5), 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.



3.2 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. You should never use 2nd speed when mixing heavy dough with an absorption ratio (ar) of 50% or less.



6. PROBLEMS ANALYSIS and SOLUTIONS

6.1 Problems, Causes and Solutions

If the SPM30 Mixer should fail to function, there are a few things you can check before calling SKYFOOD EQUIPMENT LLC.

After completing below steps and unit still not operating, contact SKYFOOD EQUIPMENT LLC.

TABLE 03

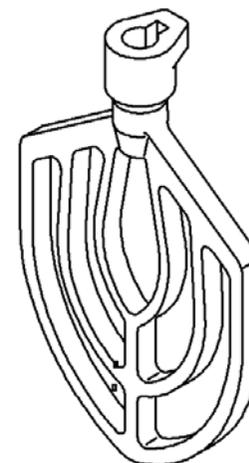
PROBLEM	SOLUTION
Mixer does not turn on	Power cord not connected to power outlet
	Timer not set
	Safety guard not closed
Agitator slowing down	Overload of product - Check capacity chart
Product not being properly mixed at bottom of bowl	Product ratio not correct - Check dry to water ratio
	Too much clearance from agitator to bowl
Lifter handle hard to lift in up or down position	Lubricate lifter slideway (recomended USDA oil or grease)

5.7 Warning

Electrical or mechanical maintenance has to be undertaken by qualified personnel. The person in charge of maintenance has to be sure that the machine is under TOTAL SAFETY conditions when working.

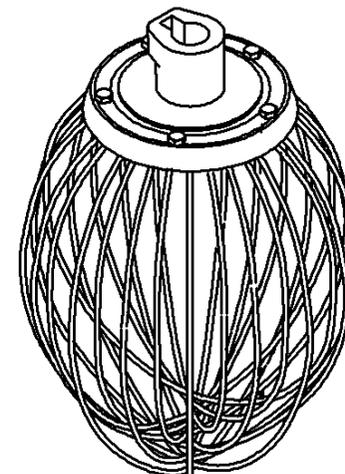
3.3 Beater

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



3.4 Whip

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



3.5 Bowl - capacity: 30 quart

New mixers bowls and agitators (beaters, whip, and dough arms) should be thoroughly washed with hot water and in sanitazin 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 with or whole eggs.

The bowl must be installed before the agitator. To install the bowl, fully lower the bowl support. 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.

3.6 Attachments

To install an attachment, loosen the thumb screw on the attachment hub and remove the plug. Insert the attachment into the attachment hub making certain that the square shank of the attachment is in the square driver of the mixer. Secure the attachment by tightening the thumbscrew.

Move the gearshift lever to the desired speed and start the mixer to operate the attachment.

The meat and food chopper attachment should be operated in second or third speed. If material in the cylinder stalls the mixer, stop the mixer at once. Do not attempt to restart the mixer in a lower speed - remove the adjusting ring, knife, plate, and worm and clear the obstruction.

signs of wearing.

When checking the tension of belts or chains DO NOT insert your fingers between belts and pulleys, nor between the chains and gears.

Check protections and safety devices to make sure they are working properly.

5.4 Operation

5.4.1 Warnings

Do not use the machine with long hair that could touch any part of the machine. This might lead to a serious accident. Tie your hair up well and/or cover it with a scarf.

Only trained or skilled personnel shall operate this machine.

Never touch turning parts with your hands or any other way ,

NEVER operate the machine without any original safety devices under perfect conditions.

5.5 After Finishing The Work

5.5.1 Precautions

Always TURN THE MACHINE OFF before cleaning by removing the plug from the socket.

Never clean the machine unless it has come to a complete stop.

Put all the components back to their functional positions before turning the machine ON again.

Check the level of oil.

Do NOT insert your fingers in between belts and pulleys nor chains and gears.

5.6 Maintenance

5.6.1 Danger

Any maintenance with the machine in working situation is dangerous. TURN IT OFF BY PULLING THE PLUG OFF THE SOCKET DURING MAINTENANCE.

IMPORTANT

Always remove the plug from the socket in any emergency situation.

- * Avoid mechanical shocks, once they may cause damages or bad functioning.
- * Avoid water, dirt or dust contact to the mechanical and electrical components of the machine.
- * DO NOT change the standard characteristics of the machine.
- * DO NOT remove, tear off or maculate any safety or identification labels stuck on the machine. If any labels have been removed or are no longer legible, contact your nearest dealer for replacement.

5.2 Safety Procedures and Notes before Switching the Machine ON

IMPORTANT

Carefully read ALL INSTRUCTIONS of this manual before turning the machine ON. Be sure to well understand all the information contained in this manual. If you have any question contact your supervisor or your nearest Dealer.

5.2.1 Danger

An electric cable or electric wire with damaged jacket or bad insulation might cause electrical shocks as well as electrical leak. Before use, check the conditions of all wires and cables.

5.2.2 Advices

Be sure to well understand all the information contained in this manual. Every operation function or procedure has to be thoroughly clear.

Before using any commands (switch, buttons, lever), be sure it is the correct one. In case of doubt, consult this manual.

5.2.3 Precautions

The electric cable has to be compatible with the power required by the machine.

Cables touching the floor or close to the machine need to be protected against short circuits.

The oil reservoirs have to be filled until the indicated level. Check and refill if necessary.

5.3 Routine Inspection

5.3.1 Advice

When checking the tension of the belts or chains, DO NOT insert your fingers between the belts and the pulleys and nor between the chain and the gears.

5.3.2 Precautions

Check the motor and sliding or turning parts of the machine in case of abnormal noises. Check the tension of the belts and chains and replace the set when belts or chains show

4. MAINTENANCE

IMPORTANT

All maintenance work should be done only after unit has been turned off and disconnected from power outlet.

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

The mixer should be thoroughly cleaned daily. Bowls and agitators should be removed from the mixer and cleaned in a sink. DO NOT use a hose to clean the mixer - it should be washed with a clean damp cloth.

The transmission case and planetary mechanism should be inspected periodically for leaks, damage, etc. Should it become necessary to repack the ball bearings, contact SKYFOOD EQUIPMENT LLC. Use of unproved grease of lubricants may lead to damage and void the unit's warranty. Use a USDA approved oil or grease to prevent food contamination.

The bowl lift slidways should be lubricated semi-annually. More often under heavy usage. Disconnect the unit from the power supply before removing the top housing or apron. The drip cup (Fig.1) should be inspected periodically for moisture or lubricant dripping. Remove the cup and wipe it with a soft cloth.

4.1 Cleaning

The mixer should be thoroughly cleaned daily. Bowls and agitators should be removed from the mixer and cleaned in a sink. The drip cup should be removed periodically and wiped clean. A large flat blade screwdriver may be used to remove the drip cup

4.2 Mixing Heavy Dough

The moisture content of heavy dough is a critical factor when selecting proper mixing speed. You should never use 2nd speed when mixing heavy dough with an Absorption Ratio (AR) of 50% or less.

To determine the Absorption Ratio (AR) of a product, divide the water weight by the flour weight.

Example: Calculate the Absorption Ratio of a mixture containing 10 lbs. Of flour and 5 lbs. of water. $10/5 = 0.50 = 50\% = AR$

TABLE 02

CAPACITY (QTS. LIQUID)		30 qt.
Egg Whites	Wire Whip	1-1/2 qt.
Mashed Potatoes	Flat Beater	20 lbs
Mayonnaise (Qts. Oil)	Flat Beater	12 qt.
Meringue (Qts. Water)	Wire Whip	1 qt.
Waffle/Pancake Batter	Flat Beater	12 qts.
Whipped Cream	Wire Whip	6 qts.
Sheet Cake Batter	Flat Beater	20 lbs.
Cup Cake Batter	Flat Beater	30 dz.
Layer Cake Batter	Flat Beater	30 lbs.
Pound Cake Batter	Flat Beater	23 lbs.
Sugar Cookie Dough	Flat Beater	50 dz.
Bread or Roll Dough (Light/ Medium, 60% AR, =)	Dough Hook	40 lbs.*
Bread or Roll Dough (Heavy, 55% AR, =)	Dough Hook	25 lbs.*
Pie Dough	Flat Beater	25 lbs.
Thin Pizza Dough (40% AR, = , 5 min. max. mix time)	Dough Hook	14 lbs.*
Medium Pizza Dough (50% AR, =)	Dough Hook	20 lbs.*
Thick Pizza Dough (60% AR, =)	Dough Hook	40 lbs.*
Raised Donut Dough (65% AR)	Dough Hook	15 lbs.*
Whole Wheat read Dough (70% AR)	Dough Hook	40 lbs.*
Egg & Sugar for Sponge Cake	Flat Beater	12 lbs.*

* 1st speed

** 2nd speed

= If high gluten flour is used, reduce above dough batch size by 10 %.

5. GENERAL SAFETY PRACTICES

IMPORTANT
If any recommendation is not applicable to your equipment, please ignore it.

The following safety instructions are addressed to both the operator of the machine as well as the person in charge of maintenance.

The machine has to be delivered only in perfect conditions of use by the Distributor to the user. The user shall operate the machine only after being well acquainted with the safety procedures described in the present manual. **READ THIS MANUAL WITH ATTENTION.**

5.1 Basic Operation Practices

5.1.1 Dangers

Some areas of the electric device have parts that are connected or have parts connected to high voltage. These parts when touched may cause severe electrical shocks or even be lethal.

Never touch manual commands such as switches, buttons, turning keys and knobs with your hands wearing wet clothes and/or wet shoes. By not following these instructions operator could be exposed to severe electrical shocks or even to a lethal situation.

5.1.2 Warnings

- * The operator has to be well familiar with the position of ON/OFF Switch to make sure the Switch is easy to be reached when necessary.
- * Before any kind of maintenance, physically remove plug from the socket.
- * Provide space for a comfortable operation thus avoiding accidents.
- * Water or oil spilled on the floor will turn it slippery and dangerous. Make sure the floor is clean and dry.
- * Before using any commands (switch, buttons, lever), be sure it is the correct one. In case of doubt, consult this manual.
- * Never touch any manual commands (switch, buttons, lever) unadvisedly.
- * If any work is to be made by two or more persons, coordination signs will have to be given for each operation step. Every step of the operation shall be taken only if a sign has been made and responded.

5.1.3 Advices

- * In case of power shortage, immediately switch the machine off.
- * Use recommended or equivalent lubricants, oils or greases.