

Get more done.

MODEL FMS60

OWNER/OPERATOR MANUAL



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TABLE OF CONTENTS

GENERAL
INSTALLATION
Unpacking
Location
ELECTRICAL CONNECTIONS4
OPERATION
Controls
Non-Timed Mixing6
MIXING
Bowl7
Agitator7
Wire Cage/Bowl Guard8
Remove Wire Cage/Bowl Guard8
Install Wire Cage/Bowl Guard8
CLEANING8
MIXING BOWL CAPACITY CHART9
Agitators and Accessories10
MAINTENANCE
Motor10
Bowl Lift Slideways10
SERVICE11
WARRANTY

INSTALLATION, OPERATION, AND CARE OF BERKEL FMS60 QUART MIXER

SAVE THESE INSTRUCTIONS

GENERAL

The 60 quart mixer has an AC Induction electric motor and motor control. A 60 quart bowl, B-Flat beater, bowl guard, spiral dough hook, D wire whip, bowl truck, and ingredient chute are shipped as standard equipment. A 0 - 15 minute timer and four plastic foot pads are standard. A #12 attachment hub is standard. A variety of attachments are available. A 30 quart (step-down) bowl and accessories are optional.

INSTALLATION

UNPACKING

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

Prior to installation, test the electrical service to assure that it agrees with the specifications on the machine data plate.

LOCATION

Remove hex head shipping bolts with an open end wrench (or crescent wrench), that attaches the four legs to the base-frame of the carton.

Place the mixer on a suitable sturdy level surface. There should be adequate space around the mixer for the user to operate the controls and install and remove bowls.

ELECTRICAL CONNECTIONS

WARNING Electrical and grounding connections must comply with the applicable portion of the National Electrical Code and/or other Local Electrical Codes.

WARNING Disconnect the electrical power to the machine and follow lockout/tagout procedures. Do not remove side cover.

A hole for the 3/4" trade-size conduit is located in the top left side of the pedestal. Remove top cover. Make electrical connections to supply harness wires in wiring area as follows:

Single-Phase Mixer:

- Connect field supply lead L1 to supply harness wire "SERVL1".
- Connect field supply lead L2 to supply harness wire "SERVL2".
- Cut off stripped portion of "SERVL3" harness wire and wrap securely with electrical tape to insulate the exposed conductor.
- Connect ground wire to ground lug on the mixer.

Three-Phase Mixer:

- Connect field supply lead L1 to supply harness wire "SERVL1".
- Connect field supply lead L2 to supply harness wire "SERVL2".
- Connect field supply lead L3 to supply harness wire "SERVL3".
- Connect ground wire to ground lug on the mixer.

Assure all wires and wire connections are inside wiring area and away from belt.

For wiring details, reference wiring diagram located on the inside of the TOP COVER. Reinstall TOP COVER.

OPERATION

A WARNING Moving beater in bowl. Keep hands, clothing and utensils out while in operation. Do not use without interlocked guard.

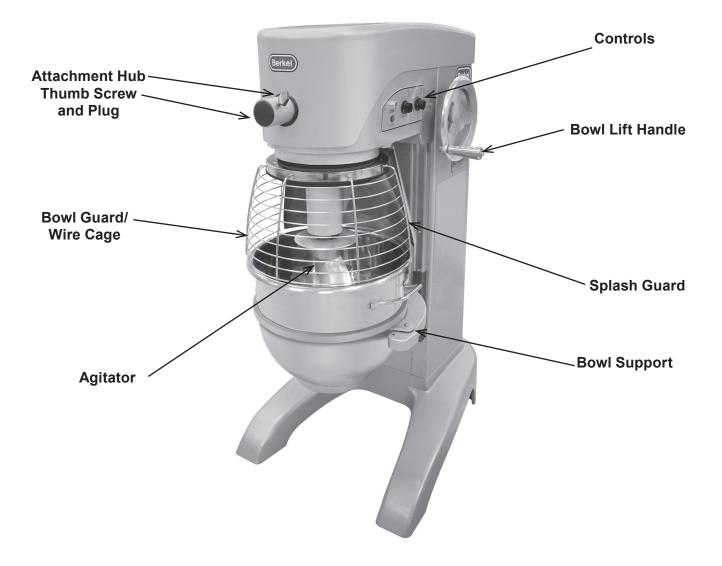
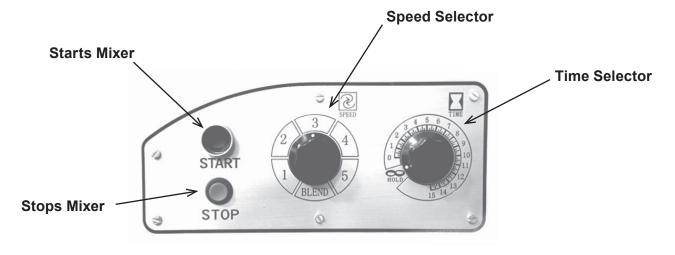


Fig. 1





Push-button Start and Stop buttons control power to the mixer.

The Bowl Guard /wire cage must be in place and closed or the mixer will not operate.

If the Bowl Support is not all the way up, the mixer will not operate.

TIMED MIXING -- The TIMER is used in conjunction with the Start button for timed mixing operations and will stop the mixer when the desired time has elapsed.

NON-TIMED MIXING -- Set the timer on Hold ∞ and use the Stop button to turn the mixer off.

The Speed Selector (Fig. 2) is used to change speeds. To change speeds, turn the Speed Selector to the desired speed. Speed can be set when mixer is on or off.

Blend -- The slowest speed to incorporate ingredients.

Speed 1 (Low) -- For light dough, heavy batters, or potatoes.

Speed 2 (Medium-Low) -- For cake batters or some whipping operations.

Speed 3 (Medium) -- For light work, such as whipping cream, beating eggs, or mixing thin batters.

Speed 4 (Medium-High) -- For light work, such as whipping cream and beating eggs.

Speed 5 (High) -- This speed is for maximum and accelerated air incorporation into light batches.

The Bowl Lift Handle (Fig. 1) is used to raise and lower the bowl. For the FMS60 (60 QUART) Mixer, to raise the bowl, rotate the handle clockwise; rotating the handle counterclockwise lowers the bowl.

FMS60 Owner/Operator Manual

MIXING

This section explains operation of the mixer and how to install bowls and agitators.



Fig. 3

BOWL

New mixer bowls and agitators (beaters, whips, spiral dough hook, ingredient chute and splash cover) should be thoroughly washed with hot water and a mild soap solution, rinsed with either a mild soda or vinegar solution, and thoroughly rinsed with clear water before being put into service. This cleaning procedure should also be followed for bowls and agitators before whipping egg whites or whole eggs.

The bowl must be installed before the agitator. To install the bowl, fully lower the bowl support (Fig. 3).

60 quart Mixer - Position the bowl so two holes on bowl tabs are above the bowl pins on the bowl support.

AGITATOR

To install an agitator (Fig. 4), 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.





Fig. 4

ATTACHMENTS

To install an attachment, loosen the thumb screw on the attachment hub (Fig.1, page 4) 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 thumb screw.

The meat and food chopper attachment must be operated in Speed 3 or lower. If material in the cylinder stalls the mixer, stop the mixer at once. Do not attempt to restart the mixer in a lower speed-disconnect electrical power, then remove the adjusting ring, knife, plate, and worm and clear the obstruction. This attachment must not be used to chop bread crumbs.

NOTICE Attachment hub must not be used while mixing product.

Close bowl guard/wire cage and raise bowl support to mix position, move the speed select knob to the desired speed and start the mixer to operate the attachment. If bowl support is lowered off the mix position, mixer will stop

BOWL GUARD / WIRE CAGE

Bowl Guard/Wire cage must be in position and closed in order to mix. If Bowl Guard/wire cage is opened during the mixing, mixer will stop.

REMOVE BOWL GUARD / WIRE CAGE

Lower the bowl support and remove agitator before removing bowl guard/wire cage. Hold wire cage with both hands and pull downward gently to release from retainer (Fig. 5).

INSTALL BOWL GUARD / WIRE CAGE

Hold Bowl Guard/wire cage with both hands and gently push upward until bowl guard/wire cage is latched on the retainer and can be rotated freely (Fig. 5).



Fig. 5

CLEANING

WARNING Disconnect the electrical power to the mixer before beginning any cleaning procedures.

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.

Clean the bowl guard/wire cage by wiping with a cloth or sponge and warm soapy water.

DO NOT place agitators, attachments or mixer components in a dishwasher for cleaning.

FMS60 Owner/Operator Manual

MIXING BOWL CAPACITY CHART

ModelSuitable for OperationFMS60Motor (HP)Operation3.0Overall Space Required (Bench Space)036" W X 46" D X 69" HKitchen Materials Capacity Chart (Finished Materials)D4 pts.Bgg Whites (pt.)D4 pts.Mashed Potatoes (lbs.)B40 lbs.Mayonnaise (Qts. of Oil)B or D18 qts.Meringue (Qty. of Water)D3 pts.Waffl e or Hot Cake Batter (qt.)B24 qts.Whipped Cream (qt.)D12 qts.Bace Shop MaterialsD12 qts.Cake, Angel Food (8-10 oz. cake) (lb.)B50 lbs.Cake, Angel Food (8-10 oz. cake) (lb.)B60Cake, Pound (lb.)B60Cake, Sponge (lb.)B36 lbs.Cookies, Sugar (lbs.)B40 lbs.Dough, Heavy Bread 55% AR § (lb.)ED80 lbs. +*Dough, Pie (lb.)B50 lbs.Dough, Pie (lb.)B50 lbs.Dough, Nedium Pizza 50% AR § (lb.)ED40 lbs.**Dough, Nedium Pizza 60% AR §ED70 lbs.**Dough, Nedium Pizza	Capacity of Bowl (Qts. Liquid)	Agitators	60 Quart		
Overall Space Required (Bench Space)Operation36" W X 46" D X 69"HKitchen Materials Capacity Chart (Finished Materials)Egg Whites (pt.)D4 pts.Mashed Potatoes (lbs.)B40 lbs.Mayonnaise (Qts. of Oil)B or D18 qts.Meringue (Qty. of Water)D3 pts.Waffle or Hot Cake Batter (qt.)B24 qts.Whipped Cream (qt.)D12 qts.Bake Shop MaterialsECake, Angel Food (8-10 oz. cake) (lb.)B45 lbs.Cake, Cup (doz.)B60Cake, Sponge (lb.)B55 lbs.Cake, Sugar (lbs.)B40 lbs.Dough, Bread or Roll (Lt-Med) 60% AR § (lb.)ED80 lbs. +Dough, Pier (lb.)B50 lbs.Dough, Pier (lb.)B50 lbs.Dough, Pier (lb.)ED80 lbs. +Dough, Pier (lb.)B50 lbs.Dough, Nedium Pizza 40% AR (max mix time 5 min.) §ED40 lbs.**Dough, Medium Pizza 50% AR §ED70 lbs. **Dough, Medium Pizza 60% AR §ED70 lbs. **Dough, Nhole Wheat 70% ARED70 lbs. **Dough, Whole Wheat 70% ARED70 lbs. **Dough, Whole Wheat 70% ARED70 lbs. **Egg & Sugar for Sponge Cake (lb.)B36 lbs.Ling, Fo	Model	Suitable for	FMS60		
Overall Space Required (Bench Space) 36" W X 46" D X 69"H Kitchen Materials Capacity Chart (Finished Materials) Egg Whites (pt.) D 4 pts. Mashed Potatoes (lbs.) B 40 lbs. Mayonnaise (Qts. of Oil) B or D 18 qts. Meringue (Qty. of Water) D 3 pts. Waffl e or Hot Cake Batter (qt.) B 24 qts. Whipped Cream (qt.) B 45 lbs. Bake Shop Materials D 12 qts. Cake, Angel Food (8-10 oz. cake) (lb.) B 45 lbs. Cake, Cup (doz.) B 60 Cake, Sponge (lb.) B 55 lbs. Cake, Sponge (lb.) B 36 lbs. Cookies, Sugar (lbs.) B 40 lbs. Dough, Bread or Roll (Lt-Med) 60% AR § (lb.) ED 60 lbs. + Dough, Heavy Bread 55% AR § (lb.) ED 60 lbs. ** Dough, Pie (lb.) B 50 lbs. Dough, Heavy Bread 55% AR § (lb.) ED 60 lbs. ** Dough, Pie (lb.) B 50 lbs. Dough, Medium Pizza 50% AR	Motor (HP)	Operation	3.0		
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Dough, Thick Pizza 60% AR §ED70 lbs. **Dough, Raised Donut 65% AR (lb.)ED30 lbs.Dough, Whole Wheat 70% ARED70 lbs. **Eggs & Sugar for Sponge Cake (lb.)B24 lbs.Icing, Fondant (lb.)B36 lbs.Icing, Marshmallow (lb.)B5 lbs.Shortening & Sugar, Creamed (lb.)B48 lbs.	Dough, Thin Pizza 40% AR (max mix time 5 min.) §	ED	40 lbs.**		
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Icing, Marshmallow (lb.)B5 lbs.Shortening & Sugar, Creamed (lb.)B48 lbs.	Eggs & Sugar for Sponge Cake (lb.)	В	24 lbs.		
Shortening & Sugar, Creamed (lb.) B 48 lbs.	Icing, Fondant (lb.)	В	36 lbs.		
	Icing, Marshmallow (lb.)	В	5 lbs.		
Pasta, Basic Egg Noodle (max mix time 5 min.) (lb.)ED30 lbs.	Shortening & Sugar, Creamed (lb.)	В	48 lbs.		
	Pasta, Basic Egg Noodle (max mix time 5 min.) (lb.)	ED	30 lbs.		

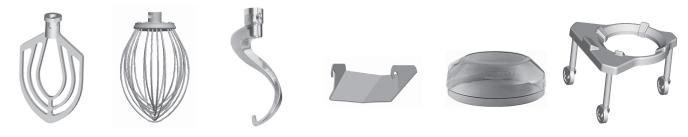
** 1st Speed + 2nd Speed § If high gluten flour is used, reduce above dough batch size by 10%.

NOTE: % AR (% Absorption Ratio) = Water weight divided by flour weight X 100%. Capacity depends on moisture content of dough. Above capacity based on 12% flour moisture and 70°F water temperature.

ABBREVIATIONS - AGITATORS SUITABLE FOR OPERATION

- B Flat Beater
- D Wire Whip
- ED Spiral Dough Hook

AGITATORS AND ACCESSORIES



B Flat Beater D Wire Whip Spiral Dough Hook Ingredient Chute

Splash Cover

Bowl Truck

MAINTENANCE

WARNING Disconnect the electrical power to the machine before beginning any maintenance procedure.

MOTOR

The motor has sealed ball bearings which require no lubrication maintenance.

BOWL LIFT SLIDEWAYS

The bowl lift slideways (Fig. 6) should be lubricated once each month. Apply a light coat of a "Food Grade" grease to both sides of the slideways.

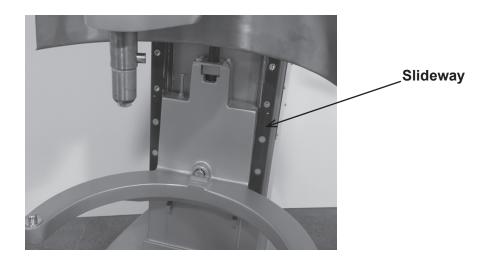


Fig. 6

SERVICE AND PARTS INFORMATION

To obtain service and parts information concerning the FMS60, you have two options:

- 1. You can contact the local Hobart office in your area, or call 1-888-4HOBART. You can also find the nearest Hobart office by visiting <u>www.hobartservice.com</u>.
- 2. You can go online to <u>www.berkelequipment.com</u> and click on the SERVICE TAB. Then, simply enter your zip code and you will be provided with a list of local Hobart and Designated Berkel Service locations to call for service, parts and technical support.

Berkel Company PO Box 696 2006 Northwestern Parkway Louisville, Kentucky 40201 (800) 348-0251 Fax 888-888-2838



Get more done.

WARRANTY

Effective: February 14, 2002

Berkel Company ("Berkel") warrants to the Buyer of new equipment that said equipment, when installed in accordance with our instructions and subjected to normal use, is free from defects in material or workmanship for a period of one (1) year from the date of sale.¹

BERKEL SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY OR EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

Berkel's obligation and liability under this warranty is expressly limited to repairing or replacing equipment that proves to be defective in material or workmanship within the applicable warranty period. Berkel or a Designated Berkel Service Location will perform all repairs pursuant to this warranty. Berkel expressly excludes responsibility for incidental or consequential damages to buyer or any third party, including, without limitation, damages arising from personal injuries, lost profits, loss of business opportunity, loss of property, economic losses, or statutory or exemplary damages, whether in negligence, warranty, strict liability or otherwise.

This warranty does not apply to: periodic maintenance of equipment including but not limited to lubrication, replacement of worn blades, knives, stones, knobs, accessories, and miscellaneous expendable supply items, and other adjustments required due to installation set-up or normal wear.

These warranties are given only to the first purchaser from a Berkel Authorized Channel of Distribution. No warranty is given to subsequent transferees.

The foregoing warranty provisions are a complete and exclusive statement of the warranty between the buyer and seller. Berkel neither assumes nor authorizes any persons to assume any other obligation or liability connection with said equipment. This warranty supersedes any and all prior warranties to the subject hereof.

¹ Model 180 slicers carry a 90 day warranty.

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