# HOBART

# LEGACY®

Models

HL600, HL661 & HL662

ML-134317

ML-134342

ML-134318

Prior MLs Covered in this Manual:

ML-134284

ML-134285

ML-134286

INSTRUCTION MANUAL



701 S. RIDGE AVENUE TROY, OHIO 45374-0001 937-332-3000 · WWW.HOBARTCORP.COM

FORM 34916 Rev B (March 2007)



**LEGACY 60-QUART MIXER** 

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# Installation, Operation and Care of Legacy<sup>™</sup> 60-Quart Mixers

#### SAVE THESE INSTRUCTIONS

# **GENERAL**

The Legacy 60-quart mixer series are heavy-duty mixers which feature a 2.7-horsepower motor, SmartTimer $^{\text{TM}}$ , a power bowl lift and a #12 attachment hub as standard equipment. A programmable recipe timer is optional.

The Legacy series is available in three models:

- The HL600 is equipped with Stir, plus four mixing speeds.
- The HL661 is equipped with one mixing speed.
- The HL662 is equipped with two mixing speeds.

A 40-quart bowl and agitators are also available.

A variety of attachments, agitators and accessories are available. These are described in a separate *Use and Applications Handbook*, which is furnished on the Legacy Mixer Operator Training CD provided with each mixer.

# INSTALLATION

#### UNPACKING

Immediately after unpacking the mixer, check 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.

#### **LOCATION**

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

Place the mixer in its operating location. There should be adequate space around the mixer for the user to operate the controls and to install and remove bowls. The area above and to the right side of the mixer should allow the top and side covers to be removed for routine maintenance and servicing.

Once in position, the mixer must be leveled:

- · Remove the two top cover screws and the top cover.
- Place a level on the top rim of the large pulley (Fig. 1). Slide shims under the base contact surface of the mixer as required to level it front-to-back and side-to-side.
- Do not replace the top cover until installation is completed.

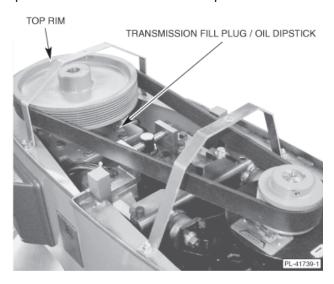


Fig. 1

#### **Check Lubrication Before Use**

This mixer is shipped with oil in the transmission. Check oil level before starting mixer. Refer to Lubrication on page 24 for applicable lubrication procedures.

#### **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.

A hole for <sup>3</sup>/<sub>4</sub>"-trade-size conduit is located at the top of the pedestal. Make electrical connections per the wiring diagram located on the inside of the top cover.

#### Single-Phase Mixer:

- · Connect field supply lead wires to L1 and L2.
- Connect ground wire to ground lug on the mixer.
- Cut off stripped portion of L3 on Legacy Mixer and wrap securely with electrical tape to insulate the exposed conductor.

#### Three-Phase Mixer:

- Connect field supply lead wires to L1, L2 and L3.
- · Connect ground wire to ground lug on the mixer.

#### **Check Initial Operation**

- 1. Apply power to the mixer.
- 2. Turn the SPEED dial pointer to STIR for the HL600 and to 1 for the HL661 and HL662.
- 3. Install the bowl and lock into mix position, with the Bowl Support all the way up and bowl guard closed. Momentarily run the machine by pushing the START and then STOP buttons.

# **OPERATION**

**WARNING**: MOVING AGITATOR IN BOWL, KEEP HANDS, CLOTHING AND UTENSILS OUT WHILE IN OPERATION. DO NOT USE WITHOUT INTERLOCKED GUARD.

The Legacy mixer is equipped with SmartTimer<sup>™</sup> controls and a power bowl lift. Other operating parts (Fig. 2) and their functions are described throughout the Operation section.

The Wire Cage must be in position or the mixer will not operate.

The bowl must stay in locked position on Bowl Support or the mixer will not operate.

If the Bowl Support is not all the way up (mix position), the mixer will not operate unless the START button is pressed and held.

If the Bowl Support is not at the mix position and the START button is pressed and held, the mixer will operate only in Stir speed.

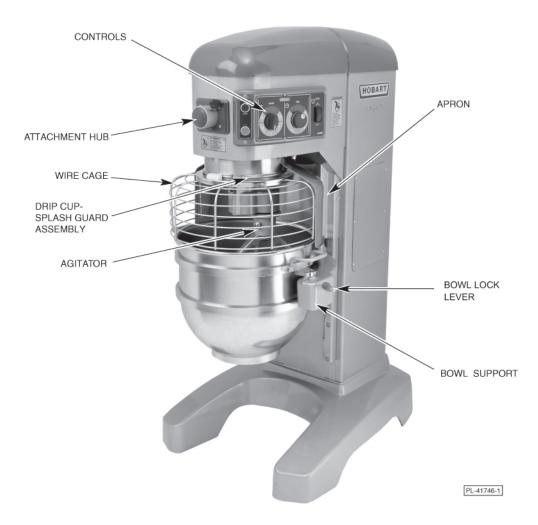
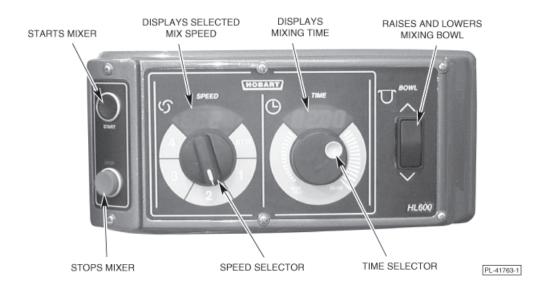


Fig. 2

## **CONTROLS**

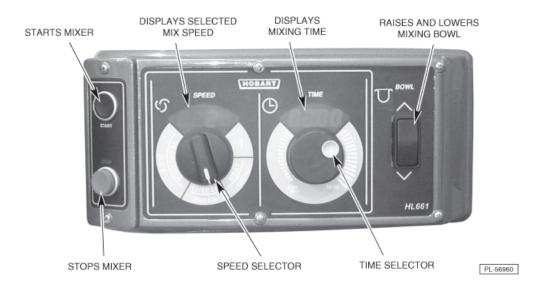
### Model HL600 (With Four Mix Speeds Plus Stir Speed)



# **Model HL600 Mixer Speeds**

STIR (Slow)	STIR speed is for incorporating ingredients at the start of each mixing process.
SPEED 1 (Low)	This speed is for heavy mixtures such as pizza dough, heavy batters and potatoes.
SPEED 2 (Medium-low)	This speed is for mixing cake batters, mashing potatoes and developing bread dough.
SPEED 3 (Medium-high)	This speed is for incorporating air into light batches, as well as finishing whipped items.
SPEED 4 (High)	This speed is for maximum and accelerated air incorporation into light batches.

## Model HL661 (With One Mix Speed Plus Meat Grind, Cheese Shred, Vegetable Slice Speeds)



#### **Model HL661 Mixer Speeds**

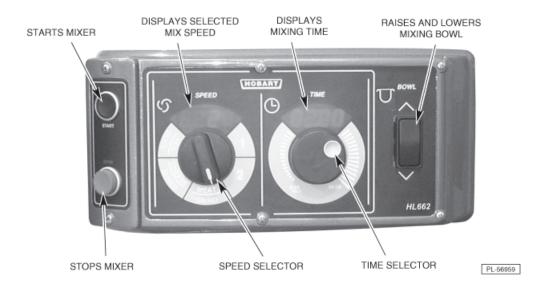
SPEED 1 This speed is for heavy mixtures such as pizza dough.

MEAT GRIND This speed is for grinding meat.

CHEESE SHRED This speed is for shredding cheese.

VEGETABLE SLICE This speed is for slicing vegetables.

#### Model HL662 (With Two Mix Speeds Plus Meat Grind, Cheese Shred, Vegetable Slice Speeds)



#### **Model HL662 Mixer Speeds**

SPEED 1 (Slow) This speed is for heavy mixtures such as pizza dough.

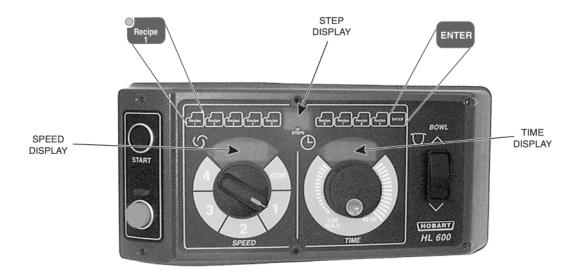
SPEED 2 (Low) This speed is for developing pizza dough.

MEAT GRIND This speed is for grinding meat.

CHEESE SHRED This speed is for shredding cheese.

VEGETABLE SLICE This speed is for slicing vegetables.

#### PROGRAMMABLE RECIPE TIMER (OPTIONAL)



## **Timer Specifications**

- Maximum number of programmable recipes: 9 recipes.
- Maximum number of steps allowed for each recipe: 6 steps.
- Maximum time allowed for each step in a recipe: 30 minutes.

For additional information on use of the programmable recipe timer, refer to pages 15 through 20.

#### **BOWL PLACEMENT**

The bowl must be installed before the agitator is installed.

To install the bowl, fully lower the bowl support. Position bowl so the alignment pins on the left side of the bowl support fit in the holes in the bowl. Swing the bowl into the locked position on bowl support.

#### **AGITATOR**

To install an agitator, the bowl must be on the bowl support and fully lowered.

#### To Install

- 1. Open the wire cage.
- 2. Place the agitator inside the bowl and line up the horizontal slot on the agitator with the agitator shaft pins.
- 3. Slide the agitator up the agitator shaft until it stops and latches.

#### To Remove

- 1. Open the wire cage.
- 2. Lower the bowl by pressing and holding the down arrow on the bowl switch.
- 3. Hold the agitator and pull the plunger of the agitator out (Fig. 3). Slide agitator down off the agitator shaft.



Fig. 3

#### **POWER BOWL LIFT**

# CAUTION: Before lowering the bowl onto a bowl truck, always unlock bowl and swing bowl out slightly.

To raise the bowl, the bowl must be in the locked position. Push and hold the up arrow on the bowl switch. To lower the bowl, push and hold the down arrow on the bowl switch.

#### To Raise the Bowl While Mixing

To raise the bowl while the agitator is mixing the product (when required by recipe or when using the Bowl Scraper Attachment):

- 1. Close the wire cage, then select a mixing speed on the SPEED dial.
- 2. Select a count-down time or HOLD for continuous count-up mixing.
- 3. While pressing and holding the up arrow on the bowl switch, press and hold the START button. The mixer runs only in stir speed while the bowl is rising.
- 4. When the bowl reaches the mix position, release the START button. The mixer automatically changes to the selected mixing speed.

#### PREPARE FOR MIXING

- 1. Place the mixing bowl on the bowl support.
- 2. Pour ingredients into the bowl.
- 3. Swing the bowl back to the locked position.
- 4. Place the agitator inside the bowl, then attach it to the agitator shaft (Fig. 4).
- 5. Return the wire cage to front-center position.
- 6. Push and hold the up arrow on the bowl switch until the bowl reaches the mix position and stops.
- 7. The mixer is now ready for mixing. (See Timer Operation.)



Fig. 4

#### **TIMER OPERATION**

#### **Using the Count-Up Mode (Continuous Mixing)**

1. Turn the SPEED dial to select a mix speed (the SPEED setting can be changed at **any** time during the mixing operation).

**NOTE**: STIR is to be used for incorporating ingredients. Do not use to develop dough products.

- 2. Set the timer on hold by turning the TIME selector counterclockwise until "Hold" appears in the TIME window.
- 3. Press the START button to begin mixing. The timer starts counting forward from 00:00.

**NOTE**: If the wire cage is opened at any time, the mixing operation will stop. To resume the mixing operation, close the wire cage and press the START button.

- 4. Use the STOP button to stop the mixer; the mixing time is displayed in the TIME window.
- 5. Press the START button to resume mixing if needed.

**NOTE**: When the timer reaches 50:00 minutes, it will rollover to 00:01 and continue counting until the STOP button is pressed.

#### **Using the Count-Down Mode (Timed Mixing)**

- 1. Turn the SPEED dial to select a mix speed.
  - a. If the count-up mode was used for the previous batch, the desired time needs to be entered.
  - b. If the count-down mode was used for the previous batch, the previous time will be displayed. If a different time is needed, turn the TIME selector to the desired time.
- 2. Press the START button to begin mixing; the timer starts counting down from the set time.
  - a. To stop the mixer at any time, press the STOP button. To resume mixing, press the START button. For example: The mixer is started at SPEED 1 for 30 seconds and is stopped after 10 seconds. Pressing the START button will resume the mixing operation.
  - b. If the mixer is stopped and a new time setting is entered, pressing the START button saves the new time setting on the current speed selection. For example: The mixer is started at SPEED 1 for 30 seconds and is stopped after 10 seconds. A new time is entered by turning the TIME selector. The new time will replace the initial 30 seconds for SPEED 1 after the START button is pressed.
  - c. If the time is changed while mixing, the mixer will operate until the new time expires. The adjustment to the time will not be stored.
  - d. If speed is changed while mixing, the time will change to the previous time for the selected speed and count down.

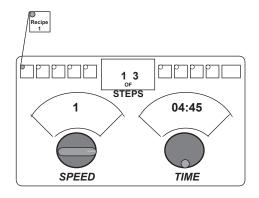
**NOTE**: If the wire cage is opened at any time, the mixing operation will stop. To resume the mixing operation, close the wire cage and press the START button.

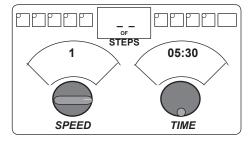
3. When the timer reaches 00:00, the mixer stops; a beeper sounds for 3 seconds. The count-down timer displays the last-entered time.

#### **OPERATING NOTES**

- STIR is to be used for incorporating ingredients. Do not use it to develop dough products.
- If the mixer is stopped during a mixing operation, the timer also stops. The timer starts again where it left off when the START button is pressed.
- The SPEED window will display the SPEED dial's current speed selection. Turn the TIME selector
  clockwise to take the mixer out of the hold mode.

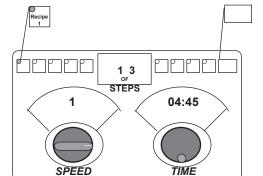
#### Recipe Mode — To Enter and Exit

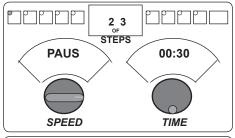


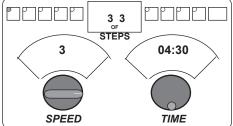


- To enter recipe mode, press any recipe button. The recipe button lights to indicate you are in Recipe Mode, and the display shows the speed and time for the first step of the recipe.
  - If the recipe button light blinks, the recipe is inactive. Refer to special functions to activate or de-activate recipe buttons.
- To exit Recipe Mode, press the lighted Recipe Button. The light on the recipe button goes off, indicating you are in Standard Timer Mode. The previous time setting for the shown speed will display.

#### **Reviewing Recipe Steps**



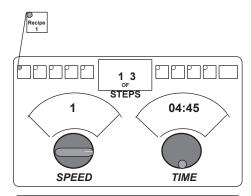




This allows you to view a recipe without running the mixer. For example, a three step recipe is shown.

- Select the recipe. The speed and time for the first step of the recipe are displayed.
- Press ENTER to display the next recipe step. Repeatedly pressing ENTER cycles through all the recipe steps.
- Pressing START will begin mixing step 1 of the recipe, regardless of the step displayed.

#### Running a Recipe

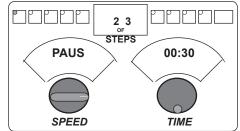


- 1 3 OF STEPS 00:00 SPEED TIME
- 3 3 OF STEPS 04:30

  SPEED TIME
- 3 3 00:00

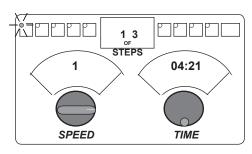
  SPEED TIME

- Select the desired recipe by pressing the recipe button. The button lights and step one of the recipe displays.
- Press START.
- The mixer begins to run step one of the programmed recipe.
   The timer display indicates the mixer speed and counts down the remaining time.
- When the time expires, the mixer automatically switches to the speed and time for the next recipe step and continues mixing. Mixing steps run in succession at the programmed speed and time.
- If a Pause step is programmed in the recipe, the mixer stops and the time display counts down the pause time to 00:00 and beeps.



- After a Pause step, the speed display for the next step flashes; press START when ready to resume mixing.
- The mixer stops after the last step.
- The timer displays revert back to step one for that recipe (as shown at the top of this page). Run the same recipe again by pressing START or select a different recipe.

#### Interrupting a Recipe



- Mixing can be stopped at any time by pressing STOP.
- The speed display flashes to indicate the program is interrupted, and the timer displays the remaining time. Press START to resume mixing.
- If you do not wish to resume mixing, press the recipe button twice until it is not lit — this returns to Standard Timer Mode.

Timer will beep between steps and at end of step.

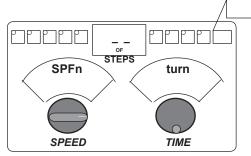
#### **Entering a Special Function**

Special Function Mode allows you to access three user resettable parameters:

- Programming Recipes, (SEt . . .rECP),
- · Making Recipes Active or Inactive, (Atth . . . rECP) and
- Setting the User Access Code (SEt . . . Code).

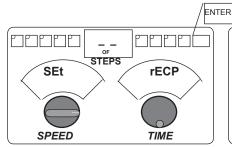
There are also other parameters for service use viewable in Special Functions.] Refer to the table, right.

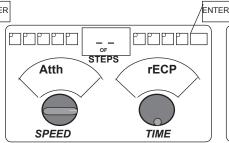
FUNCTION	4	USED BY
SEL	Unit	Service Technician
LASt	Err	Service Technician
Err	Log	Service Technician
totL	HrS	Service Technician
LASt	HrS	Service Technician
CAP	HrS	Service Technician
RUN	DiAg	Service Technician
SEt	CodE	Authorized Operator
SEt	rECP	Authorized Operator
Atth	rECP	Authorized Operator

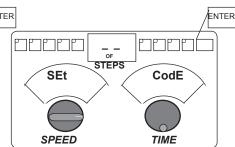


Begin from Standard Timer Mode . . . (If you are in Recipe Mode, exit by pressing the lighted Recipe button to return to Standard Timer Mode.)

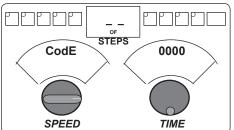
- · With no Recipe buttons lighted, press Enter for 5 seconds. SPFn ... turn displays indicating Special Functions.
- There is a one minute timeout in Special Functions Mode: After one minute of inactivity the control will automatically return to Standard Timer Mode.
  - Turn the Timer Dial to select one of the special functions: SEt . . . rECP, Atth . . . rECP or SEt . . . CodE, .







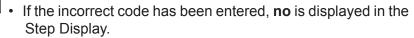
· Press ENTER.

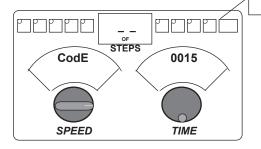




#### **Enter the Access Code**

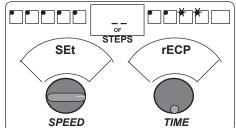
- You must enter the code to change any recipe parameters.
- CodE . . . 0000 displays.
- Turn the timer dial to the applicable access code and press ENTER. The default access code is 0015. Refer to the next three pages for the applicable function.

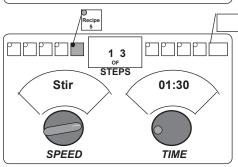


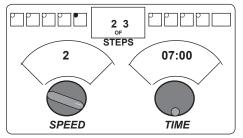


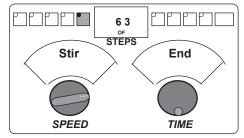
#### Programming a Recipe [SEt . . . rECP]

This function allows you to program any of 9 mixer recipes with up to 6 steps in each recipe.







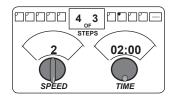


Follow instructions in Entering a Special Function on the previous page to enter SEt . . . rECP.

After entering the Access Code, the display of **SEt...rECP** indicates that you can now program a recipe.

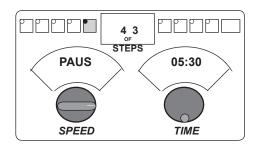
All active recipe keys are lit continuously; inactive recipe keys blink.

- Press the recipe key you want to program (1–9). It stays lit.
- Set the speed and mix time for step one by turning the speed and time dials; press ENTER to go to the next step. If the recipe was previously programmed, step 1 of X displays to indicate the first of up to 6 steps programmed for this recipe. The example shows that Stir speed was previously programmed for 1 minute and 30 seconds.
- Set the speed and time for each step of the recipe, then press ENTER to go to the next step. Repeat for each step.
- If you add more steps than were previously programmed, the step display does not update until the recipe has been saved. The step display can show step 4 of 3 during programming.



- Turn timer dial counterclockwise to **End** to terminate the recipe. This sets the previous step as the last step.
- To save the recipe, press the lit recipe button.
- Continue programming other recipes; or press ENTER for 5 seconds to exit SEt . . . rECP and return to Standard Timer Mode.

#### **Programming a Pause**

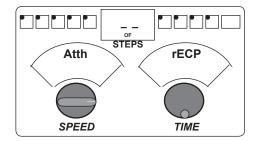


- If you need to stop mixing to add ingredients or to rest the dough, you can program a Pause step. Turn the Speed dial to the top (PAUS displays); set the timer dial for that amount of time; press ENTER.
- The mixer cannot be restarted while the pause step is counting down. If programming a Pause to add ingredients, its best to set the Pause Time for a short amount of time.
- Pause cannot be entered in first or last step of a recipe.

**NOTE**: If a recipe step is programmed wrong, exit SEt . . . rECP and re-program the entire recipe.

#### Making a Recipe Active or Inactive [Atth . . . rECP]

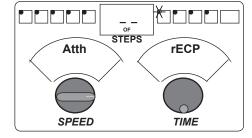
This function allows you to change the status of a recipe from Active to Inactive or vice versa. A recipe that has inactive status will not run.



Follow instructions in Entering a Special Function on page 17 to enter Atth . . .rECP.

After entering the Access Code, the display of **Atth...rECP** indicates that you can change the status of a recipe.

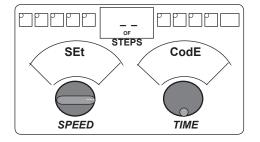
All active recipe buttons are lit continuously; inactive recipe keys blink.



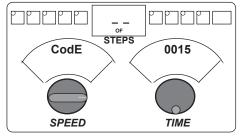
- Press any lighted recipe button to deactivate the recipe; the recipe button blinks.
- Press any blinking recipe button to activate the recipe; it becomes lit continuously.
- Press ENTER for 5 seconds to exit Atth . . . rECP and return to Standard Timer Mode.

#### Setting the Access Code [SEt . . . CodE]

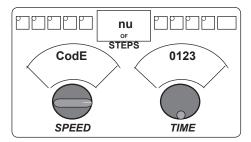
This function allows you to change the factory-set access code, 0015, to any number from 0000 to 9999. We recommend that you keep the 0015 access code.



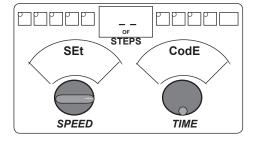
Follow instructions in Entering a Special Function on page 17 to enter SEt . . .CodE.



 Turn the timer dial to the current code number and press ENTER.



- The step display now reads **nu**.
- Turn the timer dial to the new code number and press ENTER.



- **SEt ... CodE** displays. Press ENTER for 5 seconds to exit SEt . . . CodE and return to Standard Timer Mode.
- Make a record of the new access code.

If you lose the code, it can be restored to the factory-set default code 0015. Disconnect power to the mixer. Press the enter key while powering up the mixer again. This resets all factory defaults. Programmed recipes will be lost.

#### **UNLOADING**

- 1. Unlock the bowl and swing-out slightly. Press and hold the down arrow on the bowl switch to lower the bowl.
- 2. Open the wire cage assembly.
- 3. Remove the agitator from the agitator shaft.
- 4. Remove the bowl from the bowl support.

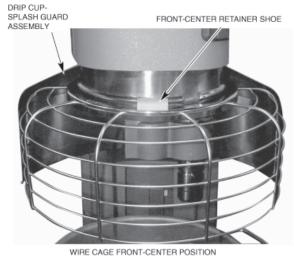
#### WIRE CAGE (Fig. 5)

The wire cage can be rotated out of the way to add ingredients or to access the bowl and agitator.

Note how the grooves on the nylon retainer shoes allow the Wire Cage to ride around the circular ridge of the planetary drip cup.

- To open the wire cage, rotate it to your left.
- To close the wire cage, rotate it to your right until it stops in the front-center, closed position.

**NOTE**: The wire cage must be returned to the closed position for the mixer to operate.



CIRCULAR RIDGE ON PLANETARY DRIP CUP

WIRE CAGE ROTATED LEFT

PL-41736-1

Fig. 5

#### Remove and Clean Wire Cage (Fig. 6)

- 1. Lower the bowl. Remove the agitator and bowl.
- 2. While holding the wire cage securely with both hands, rotate it to your left until the front-center retainer shoe reaches the gap in the circular ridge of the planetary drip cup.
- 3. Lower the front of the wire cage and move the wire cage slightly to the rear so the rear retainer shoes clear the ridge of the drip cup. The wire cage can now be removed.

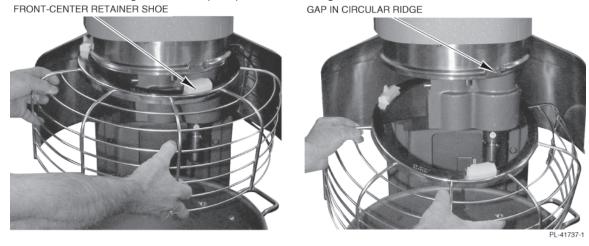


Fig. 6

- 4. Wash the wire cage in a sink, rinse with clear water, and dry with a clean cloth.
- 5. The stainless steel splash guard can be wiped off and/or washed with a cloth or sponge using warm, soapy water. Rinse with clear water and dry with a clean cloth.

#### **Reinstall Wire Cage**

- 1. Position the ring of the wire cage so the front-center retainer shoe is positioned below the gap in the circular ridge of the planetary drip cup.
- 2. Position the grooves so the rear retainer shoes straddle the circular ridge on the planetary drip cup.
- 3. Lift the front of the wire cage so the front-center retainer shoe passes up through the gap in the circular ridge on the planetary drip cup.
- 4. Rotate the wire cage to your right until all three retainer shoes straddle the ridge on the drip cup.
- 5. Continue rotating the wire cage so the opening is to the front of the mixer (to install the agitators) or until it stops at the front-center position.

#### **AGITATORS AND ATTACHMENTS**

Attachments for attachment hub and agitators are covered in a separate Hobart Legacy Mixer Use and Application Handbook on the Mixer Operator Information CD. Follow the instructions accordingly.

# **CLEANING**

**WARNING**: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

New mixer bowls and accessories (beaters, whips and dough arms) 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 used. This cleaning procedure should also be followed for bowls and agitators before whipping egg whites or whole eggs.

The mixer should be thoroughly cleaned daily. DO NOT use a hose to clean the mixer; it should be washed with a clean, damp cloth. The base allows ample room for cleaning under the mixer. The apron (Fig. 2) may be removed for cleaning by loosening the thumb screws.

The drip cup-splash guard assembly (Fig. 2) should be removed periodically and wiped clean.

For cleaning the Wire Cage refer to page 22.

# **MAINTENANCE**

**WARNING**: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

#### **LUBRICATION**

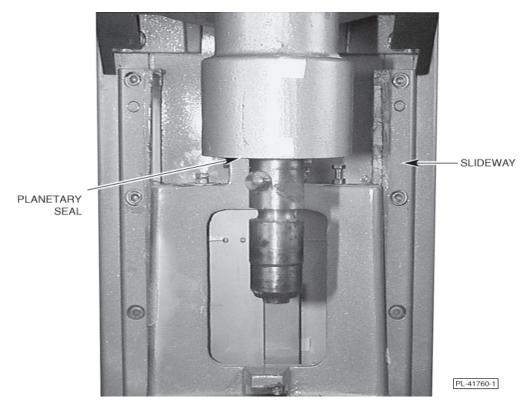


Fig. 7

#### **Slideway**

The slideways (Fig. 7) should be lubricated approximately twice a year. To reach these areas, fully lower the bowl support and remove the apron, which is secured by thumb screws. Wipe a thin coat of Lubriplate 630AA on the bowl pad area of the bowl supports and on each slideway. Install the apron.

#### **Planetary Seal**

Occasionally, the planetary seal (Fig. 7) may become dry and begin to squeak. To correct this, work a little lubrication (mineral oil) under the lip of the seal.

#### **Transmission**

To check the oil level, remove the top cover, which is secured by two screws. Remove the Transmission Fill Plug (Fig. 8) and check the oil level. If the oil level is below the line on the oil dipstick, add a small amount of the recommended transmission oil until it returns to the proper level. Do not overfill the transmission, as leakage may result. Contact your local Hobart Service Office for the recommended transmission oil.

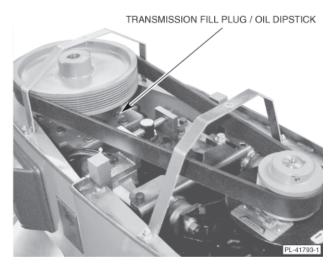


Fig. 8

#### **ADJUSTMENTS**

#### **Agitator Clearance**

The agitator clearance should be checked periodically. The agitator must not touch the bowl, and the maximum clearance between the bottom of the bowl and the B flat beater is <sup>1</sup>/<sub>8</sub>" (3 mm); the maximum clearance between the bottom of the bowl and the ED dough arm is <sup>5</sup>/<sub>16</sub>" (8 mm).

Install a bowl and agitator (e.g., beater). If the bowl and beater come into contact before the bowl support reaches its stop, adjust the stop screw. Refer to Adjust the Bowl/Agitator Clearance, page 26.

#### **Measure Clearance**

Pour enough flour in the bowl to cover the bottom of the bowl where the beater travels. With the bowl fully raised (beater should not touch the bottom of the bowl), briefly run the mixer at the lowest speed.

Turn off the mixer, disconnect the electrical power supply, and measure the depth of flour where the beater has traced a path. This measurement should be taken at several points around the bowl to assure accuracy.

#### **Adjust the Bowl/Agitator Clearance**

- Remove the apron (which is secured by thumbscrews).
- · Adjust the stop screw on right side.
  - Loosen the bottom locking nut, (Fig. 9) and turn the stop screw counterclockwise to increase the clearance or clockwise to decrease the clearance.
  - Tighten the locking nut while holding the stop screw.
- After the adjustments are made, replace the apron and secure it with the thumbscrews.
- Reconnect the electrical power supply.
- Carefully operate the bowl lift several times to check the adjustment.

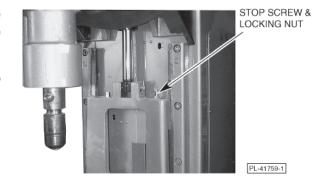


Fig. 9

# **TROUBLESHOOTING**

Symptoms	Possible Causes
Mixer will not start.	Circuit protector is in open position - check fuse or disconnect switch.  Mixer is overloaded.  Wire cage is not in the closed position.  Bowl is not in closed (locked) position.
Agitator touches bowl.	Bowl is not in closed (locked) position. Improper agitator clearance - see Maintenance for adjustment procedure. Agitator is not installed properly.
Planetary seal squeaks.	Seal requires occasional lubrication - see Maintenance.
Timer displays error code (ErXX).	If the error code is flashing - wait for mixer to clear error condition.  If mixer continues to stop and timer displays flashing error code, disconnect electrical power from mixer for 1 minute, then reconnect.  If symptoms still exist, contact your local Hobart Service office.
Alternated message of "b_in" on SPEED display.	Bowl is not in all the way.  If message of "b_in" appears again after a corrective action, disconnect electrical power from mixer for 1 minute, then reconnect.  If symptoms still exist, contact your local Hobart Service office.
Alternated message of "b_up" on SPEED display.	Bowl is not up all the way.  If message of "b_up" appears again after a corrective action, disconnect electrical power from mixer for 1 minute, then reconnect.  If symptoms still exist, contact your local Hobart Service office.
Alternated message of "b_gd" on SPEED display.	Wire cage is not closed completely.  If message of "b_gd" appears again after a corrective action, disconnect electrical power from mixer for 1 minute, then reconnect.  If symptoms still exist, contact your local Hobart Service office.
Message of "HI" and "LOAd" on displays.	Make sure you are not using STIR to develop dough product.

# **SERVICE**

If service is needed on this equipment, contact your local Hobart Service office.

# **NOTES**