

# FOOD MIXER USER MANUAL

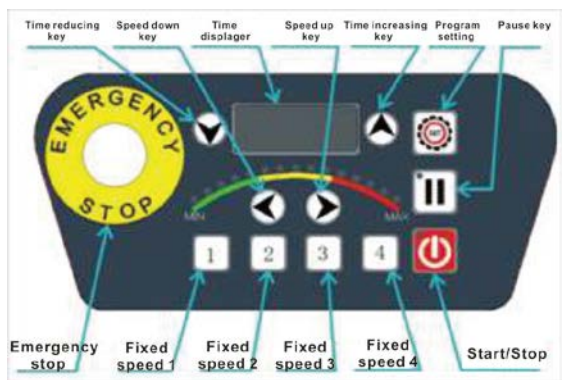
**Please read the manual carefully before using.**

**I Safety:**

1. The mixer should be placed at the position that can keep out of reach to the children. And be sure the mixer has a safety and operation area.
2. The mixer has four pieces of rubber pads under the feet, please fill up the rubber pads with the spacer if the ground is uneven.
3. The mixer must be use the single phase power of 230V±10%
4. The mixer must be connected to earth, if not, it will endanger the personal safety, the function of the EMC filter would be missed, and the frequency converter would be damaged.
5. The power supply must be protected by 10A fuse.
6. Don't use the high pressure tap water to clean the mixer and its accessories, and don't wash the mixer with strong alkaline detergents (Ph less than 9.0)
7. Don't make the mixer working under the high temperature (max. temperature 65°C) environment for a long time, it will damage the plastic accessories.
8. Be careful when you clean the small accessories to avoid any hand scratch.
9. Don't put your hand into the charging bowl when the machine is running to avoid the personal damage.




**II Information of BD20**



**1a. Control Panel Diagram**









**1b. Control Panel's Corresponding Explanation:**



1) **Emergency stop** : activated emergency stop, there is no any light in the display, if you release it again ,it can be work There is no lighting on the control panel when you press down the emergency stop button, and turn it to the right side to release it, the mixer can be work.



2) **Start and Stop button** : If the green diode at  is flashing, the mixer is broken down, if the green diode at  is lighting, the mixer is under working.




3) **Setting time**: The maximum operating time is 60 minutes.  
 Press the key  to reduce the time, and press the key  to increase the time, when the operation time is set, the countdown will be shown on the time displayer when the mixer is working. When the countdown is ended, the mixer will stop. If there is no operation time setting, the time shows on the time displayer is the time of the mixer's working time.




4) **Setting speeds**: Press the key  to reduce the speed, and press the key  to increase the speed. The mixer has four fixed speeds. The speed of the key  is 147RPM, the speed of the



key  is 217RPM, the speed of the key  is 361RPM, the speed of the key  is 542RPM.



5) **Pause key** : If you want to pause the machine during the operation, please press the key , and press it again to resume the operation.

6) **Program Setting Key** :  
 (This mixer can save 4 sets of the operation track program at maximum, you can press the key  to save or run the program. The saved program can't be deleted, but it can be replaced, the operation track program wouldn't be lost when the power off.)








**To store a program:** If we want to save the operation track program to the first set of program, please note the following steps: First, press the button  to start the machine, the user can choose different speed at different time, and you can also pause the mixer according to your need. And then the record of the speed the user chose during the operation would be taken down when the machine stop. Under the stopped state, press the key  and hold it, then press the key , at that time, the time displayer is flashing and showing the total time of this operation, three seconds later, there is "P1" shown on the time displayer, and the first set of program is saved. The save methods and the steps of the other three programs are the same as above.






**To run a program:** If we want to run the program one we have saved, please follow the following steps: Under the stopped state, press the key  and release it, then press the key , the letter "P1" would appear on the time displayer, one second later, the total operation time of the first program would appear on the displayer, and press the key , the mixer would be running according to the record of the first program.



During the operation of the program "P1", if you want to make a pause, please press the key , then the mixer will pause and it will buzz. Press the key  again, the mixer will continue the rest record. If you need to run the other program, the operation steps are the same as above.

Please note that when you running the setting program, only the keys  and  are valid, the other keys are disable.

**2a Speed Setting Steps**






1. Make sure the emergency stop key is released, and the charging bowl and the safety guard are on their working position. (And the time displayer is showing "00:00" or other time value). Then press the key  or  to increase or reduce the operation time. At last, press one of the keys , ,  or  first, and then press the key  to start the mixer, and the mixer will run as the time and the speed you have chosen.













2. Choose one of the setting programs , ,  and , and then press the button  to run the mixer, and the mixer will work according to the setting record. And you can press

the key  or  to increase or reduce the speed during the operation in order to change the running speed of the chosen fixed speed.

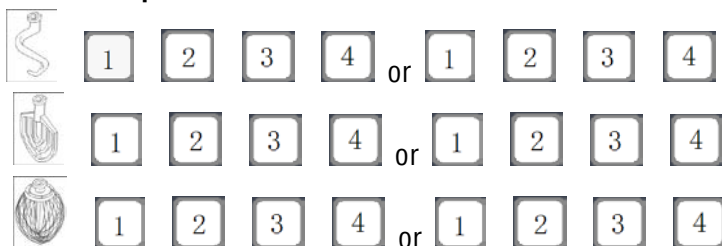
**Setting the running mode**

Examples:




a. If you want to use the speed  to mix dough, and the working time is 15 minutes, please follow the below steps: 1) Press and hold the time increasing key  until the time on the time displayer is “15:00”; 2) Press the speed key ; 3) Press the start key , then the mixer will run at the speed  for 15 minutes then stop.




b. To change the speed. If we want to increase or reduce the speed on the fixed speed keys , ,  and  to reach our required effect, please follow the next steps: 1) Press one of these four keys , ,  and ; 2) Press the button  to start the mixer; 3) Press the button  or  to increase or reduce the speed as your need, then the mixer will run according to the speed you have adjusted until you press the button  again to stop the machine.

**III Recommended Speeds:**

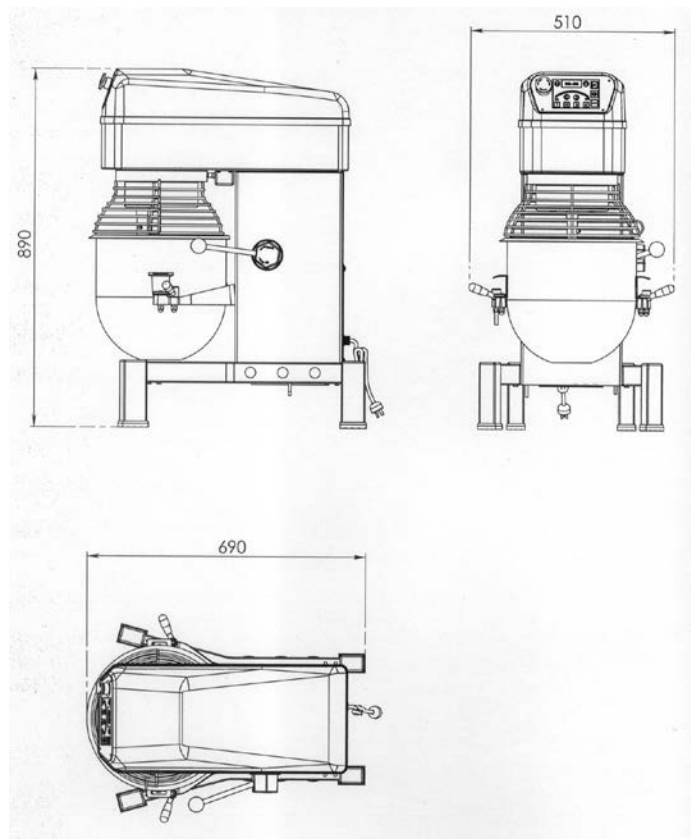


**IV Technical Parameters**

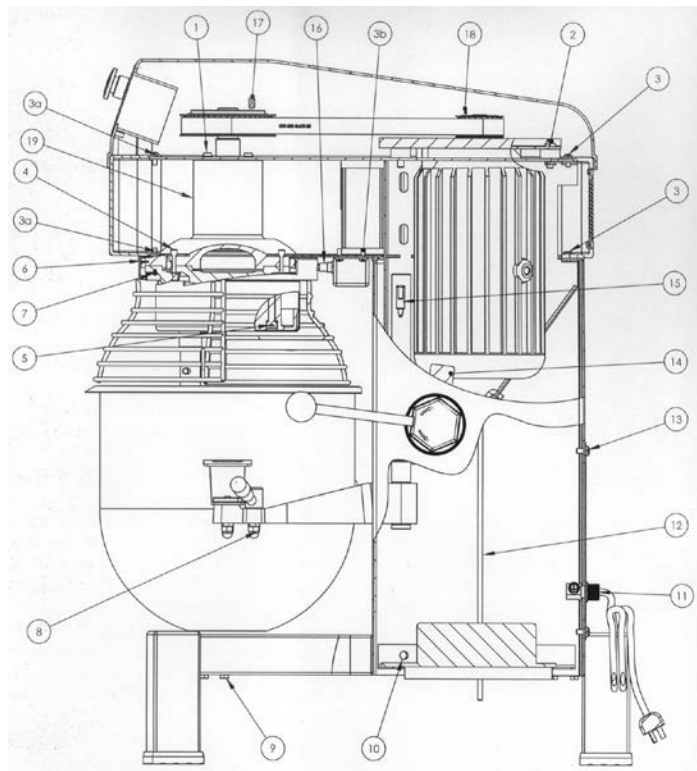
Description	Parameter	Recommended Tool
Capacity of bowl	20L	
Rated power of output	750W	
Voltage	220V±10%	
Weight of bread dough	7.8KG(Flour: Water=1:0.5)	
Weight of bread dough	8KG(Flour: Water=1:0.6)	
Egg White	2.4L	

Whipped Cream	5L	
Mashed Potatoes	8KG	
Cake Paste	5KG	

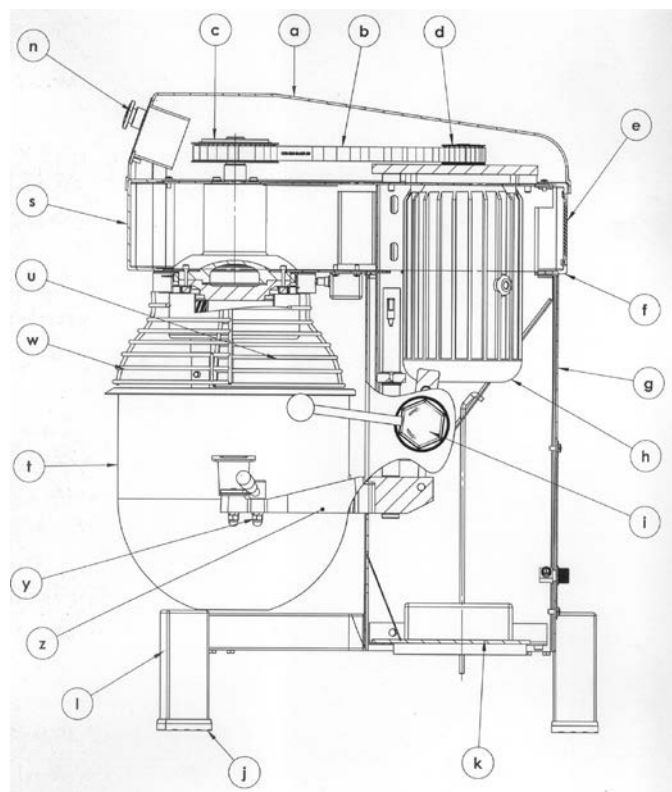
**V Mixer's Overall Dimension**



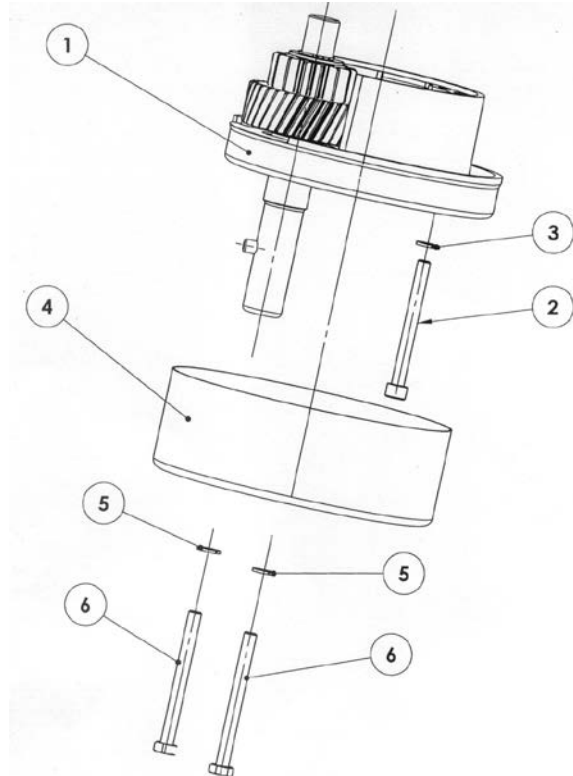
**VI Exploded View**



(Figure 1)



(Figure 2)



(Figure 3)

## VII Maintenance

Please ask the qualified professional to do the maintenance, and cut off the power before the maintenance.

**Demount the Figure 2a** Move the bottom edge of the part a and then lift it up.

**Demount the Figure 2f** Press the button under the e, and take the part of e out, and then take the four screws out from the part 3 on the Figure 1.

**Demount the Figure 2s** Take out the four pieces of screws from the part 3a on the Figure 1.

**Demount the Figure 2b** Take the four screws out of the 2 on the Figure 1 first, and then move forward the mounting board b on the Figure 2.

**Demount the Figure 2g** Remove the two screws from the part 17 on the Figure 1, and then take out the pulley's core.

**Demount the Figure 2d** Remove the two screws from the part 18 on the Figure 1, and then take out the pulley's core.

**Demount the Figure 2w** Turn around the part w on the Figure 2 to make its hole is directed at the part 6 on the Figure 1, then remove the three screws from part 6.

**Demount the Figure 2~~4~~** Remove the four screws from the part ~~7~~ on the Figure 1.

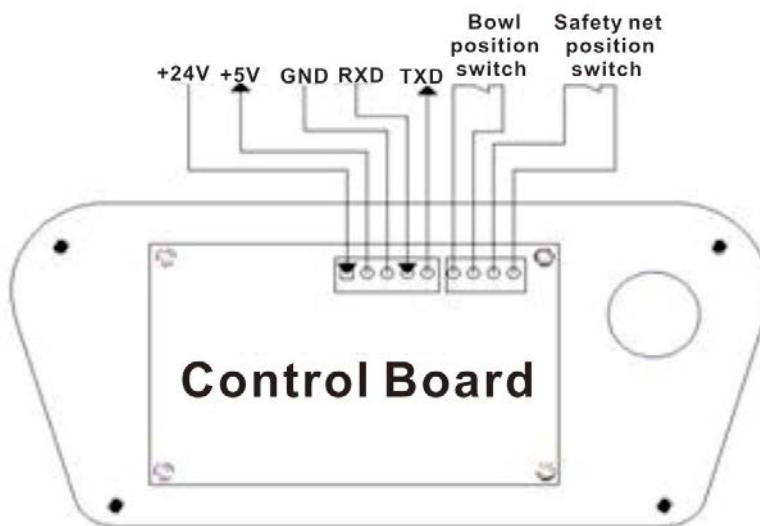
**Demount the Figure 3~~1~~** Remove the two screws from the part ~~6~~ of Figure 3, and take off the part ~~4~~ of Figure 3, and then remove the screws from part ~~2~~ of Figure 3, at last, pull down the part ~~1~~ of Figure 3

**Demount the Figure 1~~1~~** Remove the part ~~1~~ of Figure 3, then take out the screws from the part ~~1~~ and ~~4~~ of the Figure 1, and the part ~~19~~ is removed.

### VIII Cleaning

1. Turn off the power supply and pull the plug out before cleaning.
2. Please use the soft cloth and the clean water to clean the mixer's outside parts, charging bowl and the accessories after the daily use.
3. Be careful when you clean the charging bowl and the small accessories to avoid any hand scratch.
4. Please fix the charging bowl on the right working place after the clean, and the other accessories should be placed on a safe and sanitary location.

### IX Cabling Diagram of Control Panel



### X Error Codes and Possible Solutions:

The BD20 control will in case of certain errors show an error code in the display



<b>Error Code</b>	<b>Fault Phenomenon</b>	<b>Cause Factor Analysis</b>	<b>Processing Method</b>
Err0	The output driver of the actiyator is broken down	<ol style="list-style-type: none"> <li>1. The output line connected with the actiyator and the motor is short circuit</li> <li>2. The actiyator is broken down</li> </ol>	<ol style="list-style-type: none"> <li>1. Disconnect the short circuit part of the output line or change a new output line.</li> <li>2. Change a new actiyator.</li> </ol>
Err1	The operation voltage of the output driver's chip is abnormal	The actiyator is broken down	Change a new actiyator
Err2	The temperature transmitter of the actiyator is abnormal	The temperature transmitter is open circuit, short circuit or it is broken down	Change a new actiyator
Err3	The output driver's chip is overheat	The cooling system is abnormal	<ol style="list-style-type: none"> <li>1. Repair the cooling system</li> <li>2. Turn off the actiyator and turn it on when it is cool</li> </ol>
Err4	The power supply voltage is abnormal	The AC power supply voltage is too high or too low	Use the right power supply
Err5	The motor is overload	Overload	Turn off the mixer, and reduce the quantity of the mixing stuff, and turn it on with low speed
Err6	The nonvolatile storage of the actiyator is abnormal	The actiyator is broken down	Change a new actiyator
Err7	The protective sensor of the actiyator is abnormal	The protective sensor is in the wrong position or it is broken down	<ol style="list-style-type: none"> <li>1. Check the structure of the protective sensor is right or not</li> <li>2. Change a new protective sensor</li> </ol>
Err8	Communication failures	The communication between the control panel and the actiyator is broken down	<ol style="list-style-type: none"> <li>1. Check the line of communication is reliable and connected or not</li> <li>2. Repair the control panel or the actiyator</li> </ol>
OPEN	Safety net protection	<ol style="list-style-type: none"> <li>1. The safety net can't close to the right position</li> <li>2. The safety position switch is broken down</li> </ol>	<ol style="list-style-type: none"> <li>1. Turn off the mixer and make the safety net to the right position</li> <li>2. Change a new safety position switch</li> </ol>

dOUN	Charging bowl descent protection	<ol style="list-style-type: none"> <li>1. The charging bowl can't rise to the right position</li> <li>2. The bowl position switch is broken down</li> </ol>	<ol style="list-style-type: none"> <li>1. Make the charging bowl to rise to the right position</li> <li>2. Change a new charging bowl position switch</li> </ol>
bArL	Charging bowl protection	<ol style="list-style-type: none"> <li>1. The charging bowl is not installed at the right position</li> <li>2. The charging bowl proximity switch is broken down</li> </ol>	<ol style="list-style-type: none"> <li>1. Install the bowl at the right position</li> <li>2. Change a new charging bowl proximity switch</li> </ol>

**XI Electrical Diagram:**

