# COMMERCIAL MIXERS



MODEL:GEM110

# INSTRUCTION MANUAL

THE LEGACY COMPANIES

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**PLEASE READ THESE INSTRUCTIONS CAREFULLY BEFORE USING YOUR MIXER**

# GEM110 Mixer Operation Instruction



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## 1、 General Description

This is a kind of three-speed gear mixer. With its planetary stirring design, it has a compact structure, high efficiency, power saving and easy operation. It will be provided to you as an ideal assistant for bread and cake making.

## 2、Technical parameters

| Name | Barrel Volume (L) | Power (KW) | Weight (Kg) | Speed Of Stirring Shaft (r/min) | | | Overall Dimensions (mm) |
|---|---|---|---|---|---|---|---|
| | | | | 1st Speed | 2nd Speed | 3rd Speed | |
| SM-10 | 10 | 0.5 | 75 | 108 | 195 | 355 | 490×410×640 |

## 3、Main External Parts of Mixer




① Gear change hand lever
② Stirring shaft
③ Mixer
④ Stainless bowl
⑤ Power switch
⑥ Bent lever
⑦ Support

## 4、Operation Instruction

① Standard power supply 110V/60Hz AC.(Please use a plug with 3 wide contacts and good grounding.)

② Installation of Mixer: Put the stirring shaft 2 in Mixer 3 and rotate it

in clockwise direction.

③ Starting procedure: Pull the gear change hand lever 1 to position 1 before staring, Safe hood is in closed state. Then turn on the power switch 5, after the mixer is in normal operation ,set the speed required.

④ Speed transformation: If you want to change the speed, please pull the bent lever 6 to the lowest point ,after pull the gear change hand lever 1 to the position required, then pull the bent lever 6 to the highest point and lift the support 7 to the highest position. The machine can be in normal operation at this time.

⑤ Installation procedures for meat Mincer head : stop operation first ,loose stud bolt and lift the top cover of its head. Then put on the mincer and tighten the stud bolt.1st speed should be used for mincing meat.

⑥Shutting down: When the operation is completed, turn off the power switch 5 first, then pull the gear change hand lever 1 to position 1, and pull back the hand lever 6 to the lowest point and finally disconnect power supply.

**5、Accessories and Functions**

① Spherical mixer: Used for stirring of liquid materials, such as cream and egg.

② Plate mixer: Used for stirring of paste, powder, and fragmental materials, such as stuffing.

③ Hook mixer: Used for stirring of more sticky materials, such as dough .

**6、Notes**

① The power socket must be provided with a good ground wire to guarantee the mixer's good grounding through it. There will be a electric shock if no ground wire or an improper grounding mounted. The ground wire can never be connected with gas pipe, water pipe, lightning rod or telephone line. Electric leakage should be checked after installation.

② Don't put your hand into the stirring barrel during operation. Power supply should be disconnected before the mixer is going to be installed.

③ Don't operate the mixer beyond the time limit to prevent reduction of its service life.

④ The mixer should be mounted on a stable and clean place. Keep it away from overheated or overwet places and away from equipment which has strong electromagnet or can produce strong electromagnet.

⑤ Keep the machine clean constantly. Disconnect power supply before

maintenance. Clean it with a piece of soft and a bit wet cloth. Don't clean it with liquid or spraying detergent

*** Warning: Do not use medium or high speed for kneading dough.

## 7、 Maintenances

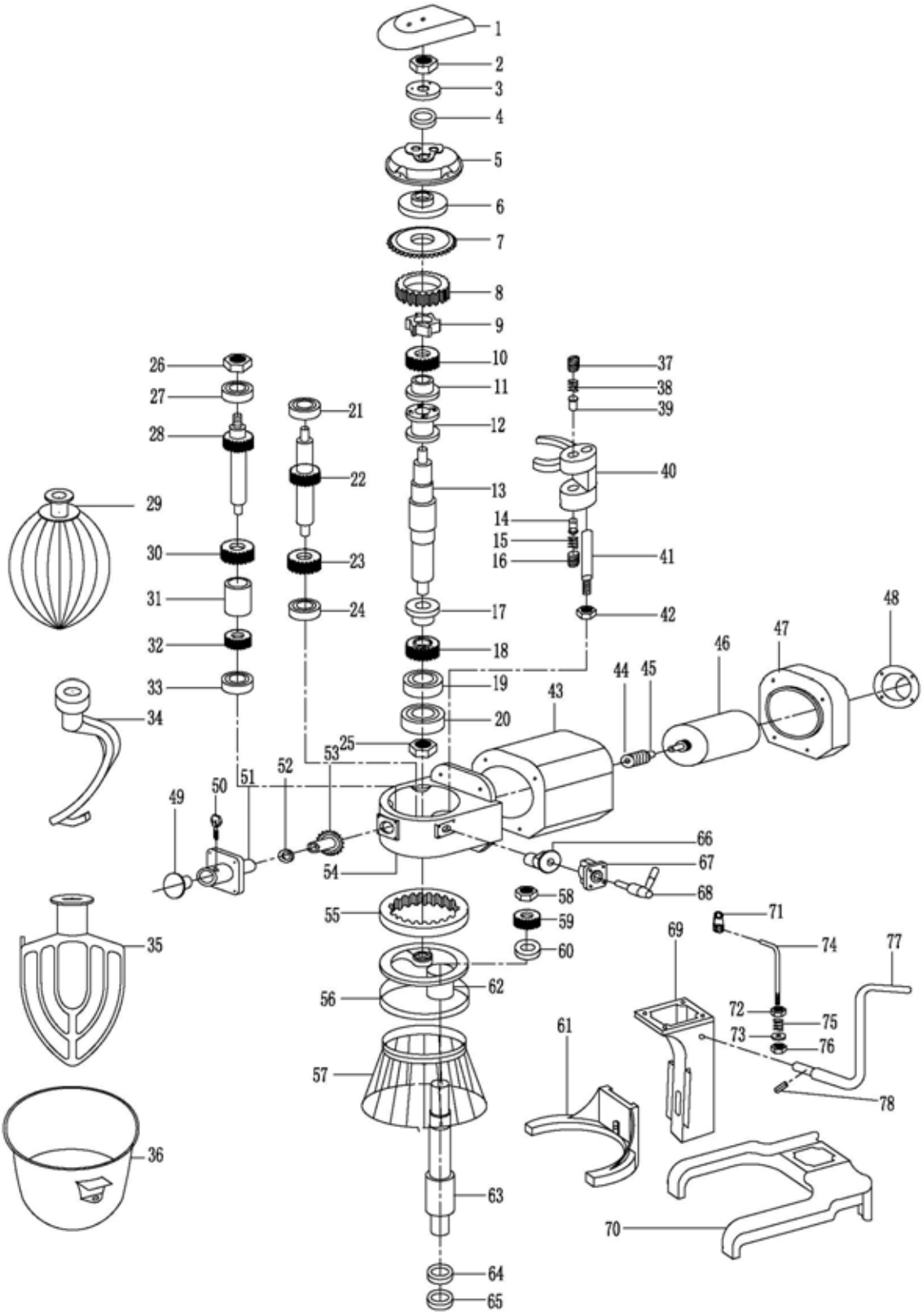
a. After using, you should clean the bowl and agitator ect, make sure to keep the machine clean.

b. The transmission gear box is packed with special grease, it could be used for six mouths in normal condition. If it need to add or replace the grease, please open the top cover ,then pour the grease from aperture or replace the grease directly.

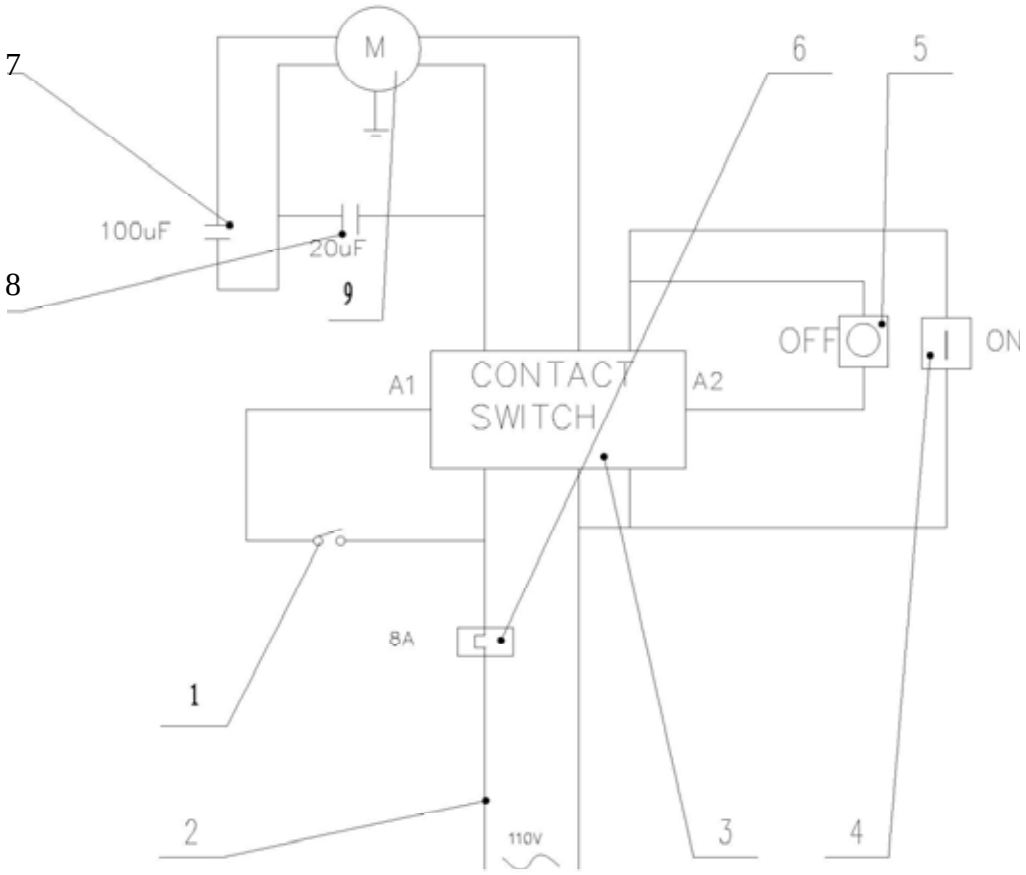
## 8、Problems and solutions

| Problems | Causes | Solutions |
|---|---|---|
| The mixing shaft doesn't rotate after starting the machine | Electric connectors are loose | Check the electric circuit, tighten those loose connects |
| Oil leakage | The oil seals are worn out | Replace those oil seals |
| The temperature of the motor becomes higher and the rotating speed becomes lower | Too low voltage | Check the power supply |
| | Over-load | Lessen the quantity of the mixture |
| | The speed of mixing is too high or the mixing is not suitable | Select a suitable speed and mixing |
| The mixing knocks with the bowl | The mixing or the bowl is deformed | repair or replace the mixing or bowl |
| The noise of the gearbox is serious, its temperature is too high | Lubrication is insufficient | Add or replace the grease |

## 9. exploded assembly drawing




## 10. electrical diagram




| SER.NO. | PART.NO. | PART NAME |
|---|---|---|
| 1 | SM10-DQ-01 | Distance switch |
| 2 | SM10-DQ-02 | Power cord |
| 3 | SM10-DQ-03 | Contact switch |
| 4 | SM10-DQ-04 | Green button |
| 5 | SM10-DQ-05 | Red Button |
| 6 | SM10-DQ-06 | Overload switch |
| 7 | SM10-DQ-07 | Capacitor100uf |
| 8 | SM10-DQ-08 | Capacitor 20 uf |
| 9 | SM10-DQ-09 | motor |

## 11. list of part number

## SM-10 Mixer Spare Parts List

| SER.NO. | PART.NO. | PART NAME | Remark | SER.NO. | PART.NO. | PART NAME | Remark |
|---|---|---|---|---|---|---|---|
| 1 | SM10-01-06 | Top cover | | 44 | SM10-01-19 | Worm wheel | |
| 2 | GB6171-M14x1.5 | Nut | | 45 | GB879-6x30 | Pin | |
| 3 | GB9385-14 | Clamp plate | | 46 | SM10-DQ-09 | Motor | |
| 4 | 6003 | Bearing | | 47 | SM10-01-01 | Back housing | |
| 5 | SM10-01-07 | Transmission shaft support | | 48 | SM20-01-01 | Back Cover | |
| 6 | SM10-01-05-01 | Spacer-lower | | 49 | SM10-01-25 | Plug | |
| 7 | SM10-01-05-03 | Taper gear wheel | | 50 | SM20-01-38 | Locking bolt | |
| 8 | SM10-01-05-02 | Tooth gear | | 51 | SM10-01-11 | Attachment hub | |
| 9 | SM10-01-05-11 | Gear | | 52 | SM10-01-08 | Ring | |
| 10 | SM10-01-05-04 | Gear | | 53 | SM10-01-09 | Taper gear wheel 2 | |
| 11 | SM10-01-05-06 | Bushing | | 54 | SM10-01-13 | Front Housing | |
| 12 | SM10-01-05-05 | Sleeve | | 55 | SM10-01-14 | Internal gear | |
| 13 | SM10-01-05-09 | Main shaft | | 56 | SM15-02-15 | Hood ring | |
| 14 | SM10-01-18-03 | Plunger-sgifter yoke | | 57 | SM15-03-00 | Safety guard | |
| 15 | SM10-01-18-04 | Spring | | 58 | GB894.1-15 | Circlips for shaft | |
| 16 | SM10-01-18-02 | Retainer-spring | | 59 | SM10-01-15-03 | Gear | |
| 17 | SM10-01-05-06 | Bushing | | 60 | 6202 | Bearing | |
| 18 | SM10-01-05-07 | Gear | | 61 | SM10-04-03 | Support | |
| 19 | 6204 | Bearing | | 62 | SM10-01-15-02 | Operating shelf | |
| 20 | HG692-25x47x7 | Oil seal | | 63 | SM10-01-15-01 | Working shaft | |
| 21 | 6001 | Bearing | | 64 | 6203 | Bearing | |
| 22 | SM10-01-03-01 | Shaft worm gear | | 65 | HG692-20x40x7 | Oil seal | |
| 23 | SM10-01-03-02 | Gear | | 66 | SM10-01-16-01 | Cam-gear shifter | |
| 24 | 6001 | Bearing | | 67 | SM10-01-16-02 | Plate-shifter index | |
| 25 | GB6171-M14x1.5 | Nut | | 68 | SM10-01-16-06 | Handle-shifter | |
| 26 | GB6171-M10x1 | Nut | | 69 | SM10-04-01 | Stud | |
| 27 | 6001 | Bearing | | 70 | SM10-04-04 | Base | |
| 28 | SM10-01-04-01 | Gear shaft | | 71 | SM10-04-12 | Crank lever | |
| 29 | SM10-06-03-00 | Wire whip | | 72 | GB848-14 | Ring | |
| 30 | SM10-01-04-02 | Gear | | 73 | GB848-10 | Ring | |
| 31 | SM10-01-04-05 | Bushing | | 74 | SM10-04-10 | Connecting rod | |
| 32 | SM10-01-04-03 | Gear | | 75 | SM10-04-08 | Spring | |
| 33 | 6001 | Bearing | | 76 | GB6170-M10 | Nut | |
| 34 | SM10-06-02 | Spiral dough hook | | 77 | SM10-04-13 | Lift handle | |
| 35 | SM10-06-01 | Flat Beater | | 78 | GB879-5x30 | Pin | |
| 36 | SM10-05-00 | Bowl assembly | | 79 | SM10-03-02-00Z | Bowl hold kits | |
| 37 | SM10-01-18-03 | Plunger-shifter yoke | | 80 | SM10-03-02-00Y | Bowl hold kits | |
| 38 | SM10-01-18-04 | Spring | | 101 | SM10-DQ-01 | Distance switch | |
| 39 | SM10-01-18-02 | Retainer-spring | | 102 | SM10-DQ-02 | Power cord | |
| 40 | SM10-01-18-01 | Shifting yoke | | 103 | SM10-DQ-03 | Contact switch | |
| 41 | SM10-01-17 | Declutch shift shaft | | 104 | SM10-DQ-04 | Green button | |
| 42 | GB6170-M8 | Nut | | 105 | SM10-DQ-05 | Red Button | |
| 43 | SM10-01-02 | Case | | 106 | SM10-DQ-06 | Overload switch | |
| | | | | 107 | SM10-DQ-07 | Capacitor 100uf | |
| | | | | 108 | SM10-DQ-08 | Capacitor 20 uf | |

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