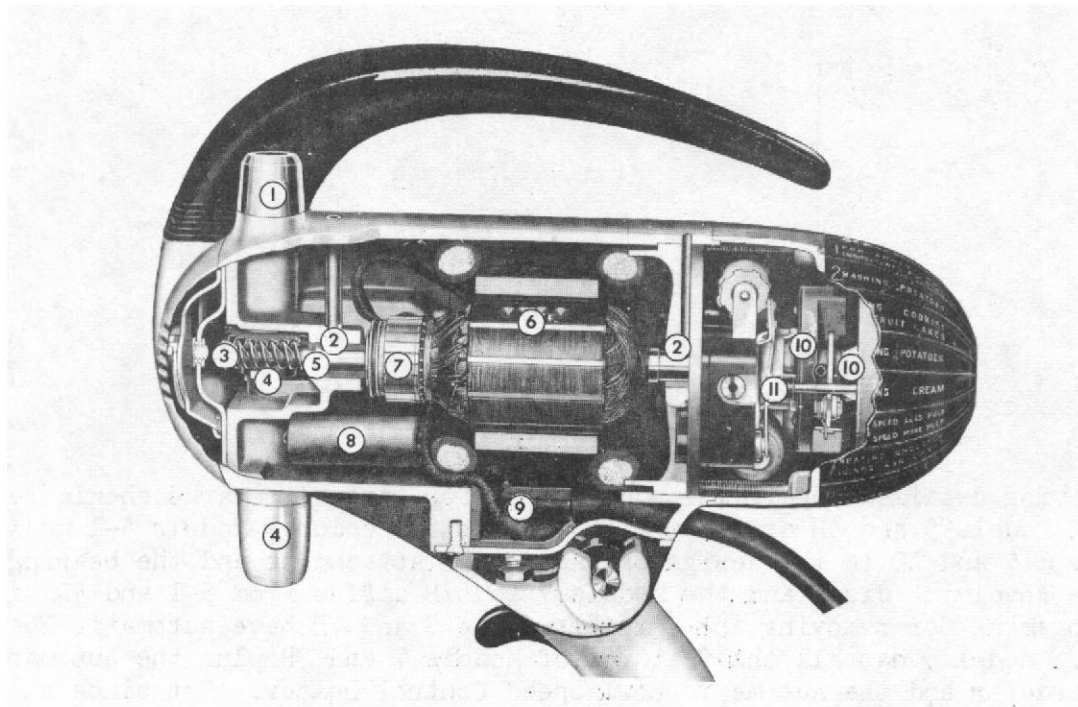


Instructions for Servicing Vintage Sunbeam Mixmasters



**Original Sunbeam Factory Service Information for Models:
5, 5B, 5-1, 5B1, 7, 7B, 7-1, 7B1, and 9**

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New Albany, PA
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Service Bulletin

7298

Supersedes Service Bulletins
No. 23 September 20, 1941
No. 13-5 January 3, 1949

61-18 MIXMASTER
April 1, 1951

INSTRUCTIONS FOR SERVICING SUNBEAM MIXMASTERS
MODELS 5, 5B, 5-1, 5B1, 7, 7B, 7-1, 7B-1 and 9

(See Model Number Stamped on Motor Name Plate and on Mixmaster Base)



GENERAL

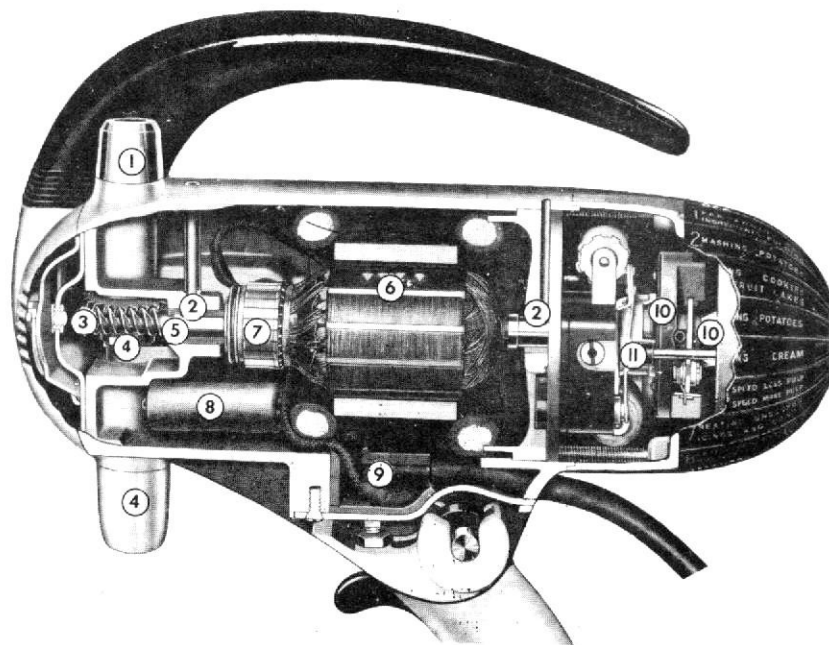
Before giving detailed repair instructions, a few general remarks should be helpful. Models 5 and 5B are just alike except for color. Models 5-1 and 5B1 differ from 5 and 5B in the design of the Juicer Attachment and the bearing under the revolving disc, and the Models 7 and 7B differ from 5-1 and 5B1 in the arrangement for removing the whippers. The 7 and 7B have Automatic Beater Ejectors. Model 9 has all the features of Models 7 and 7B plus the Automatic Juice Extractor and the Automatic Bowl Speed Control Beater. But since all of these models are similar they will be treated as one model mechanically and electrically in this Bulletin. All have the patented Mix-Finder Dial Motor Control.

The motor speed is controlled by a centrifugal governor. As in previous automatic models, the governor consists of tungsten contact breaking points placed in series with the motor coils. The breaker points open at a predetermined speed and close again at a speed only slightly lower. Thus a constant speed is maintained, even with variations in the load and line voltage, and full power is available at all speeds. The breaker points are mounted on a lever arm and are so arranged on a disc which revolves with the armature, that

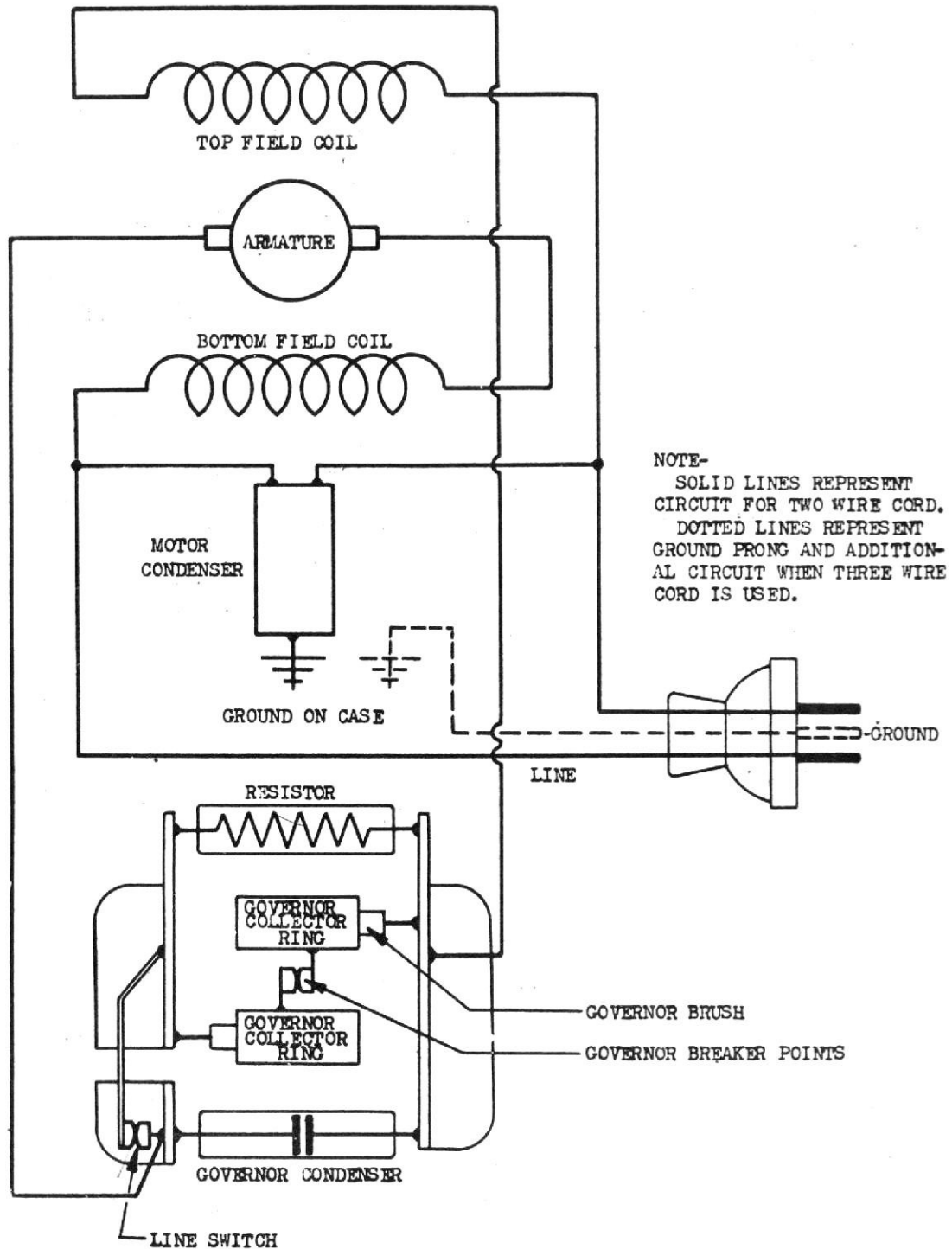
centrifugal force opens the breaker points as the speed goes above a certain value. The value is varied when the Mix Finder Control Dial is turned, changing the distance between the governor slide and the governor breaker point arm and determining the speed at which the contact points will open.

The mechanical design and arrangement of the governor and governor carbon brushes is sturdy and simple. The brushes are at right angles to the armature shaft and the current is led into the governor through hard brass alloy collector rings mounted around the hub of the governor. The circumference of the collector rings is equalized, so that the "distance of travel" is the same for both brushes. This not only provides even wear on the carbon, but prolongs the life of the brushes.

As in the preceding automatic models, a condenser and a resistor are shunted across the breaker points to give them long life. The resistor also helps to smooth out the motor's speed by allowing a small part of the current to flow through the motor while the governor points are open. The resistor and condenser assemblies are conveniently held in place by brackets, thus eliminating lead wires and fastening screws. A second condenser is installed in the front part of the motor to eliminate radio interference.



- | | |
|-------------------|------------------------------------|
| 1—CONE FOR JUICER | 6—ARMATURE AND FIELD COIL WINDINGS |
| 2—OILLESS BEARING | 7—COMMUTATOR |
| 3—WORM GEAR | 8—CONDENSER |
| 4—BEATER EJECTOR | 9—JUNCTION BOX |
| 5—ARMATURE | 10—GOVERNOR AND GOVERNOR SLIDE |
| | 11—SPEED CONTROL SWITCH |



WIRING DIAGRAM

HOW TO SERVICE MODEL 5 and 5B AUTOMATIC MIXMASTERS

1. If the motor does not operate when the electric cord is plugged into an outlet of the same voltage as shown on the motor name plate, detach cord from the outlet and remove Carbon Brush Screws (see Key No. 84 on the parts list attached at end of this bulletin) and observe if the Brush Springs (Key No. 85) and Carbon Brushes (86) are in place and in good condition (also see section 14 of this bulletin). If the carbon brush parts are in good condition and the motor still does not run, proceed to take the motor apart. Before doing this, make certain that the cord is detached from the electrical outlet.

2. Remove Mix-Finder Dial (49) and Rear Motor Housing Assembly (45)

Insert a pointed tool in the small hole in the hub of Mix-Finder Dial (49) and pry out Thrust Cap (54). Tool 5. (see the list of tools given on last page of this bulletin) can then be used for removing the Thrust Screw Lock Nut (53). Next the Mix-Finder Dial is taken off. Place these parts carefully aside so as not to lose Washers (51 and 52) and Cam Push Pin (48). The Rear Motor Housing and Governor Slide Assembly (45) is removed next by turning out Screws (47) and Washers (46). Care should be taken not to lose the Cam Push Pin Assembly (48) and Switch Rod (56). If the Rear Motor Housing and Governor Slide assembly become stuck while being removed do not force the assembly loose. Use a screw-driver and apply an outward pressure on the front of the Governor Slide nearest the armature to break the Slide loose from the Armature Shaft.

- 2-A. After the above assemblies have been removed you have a clear view of the Governor (40), Governor Brushes (36) and Switch (60). Determine whether the governor brushes are making good contact with the governor collector rings. If brushes are in good order, plug the cord into the socket again and with a shock-proof screw-driver, press down Switch Contact Spring (60) taking care to keep the screw-driver clear from the rotating governor disc. The mixer should start -- if it doesn't, proceed to test cord as outlined in the following section.

3. Testing Electric Cord (61)

Place tips of test wires of tester kit on each prong of the plug at the end of the cord. If the Tester Lamp (50 watts) lights to nearly normal brightness with the Mix-Finder Dial in a position other than "OFF", it indicates that the electric circuit is complete and the motor should run, otherwise, the bearings may be tight -- See sections 5, 6, 7, and 11. If the lamp does not light the circuit is open and a complete test should be made of the electric cord as explained in section 3-A below. If the tester light is illuminated to approximately half its normal brightness, that indicates the motor circuit proper is open and the current is flowing through the Resistor (38) only -- proceed to take the motor down and test the Armature (31) and Field Coils (29) for an open circuit, also inspect brushes (86) and brush springs (85). (See sections 12, 12-A, and 14).

- 3-A. Take out Screw (68) and Rubber Insulation (65) and pull out connections from terminal insulating box. Place tester tip on one of the cord connections and the other tester tip on first one prong of the appliance plug

and then the other. Through one of these wires the test lamp should light; if it does, then move test tips over to the other connection in terminal box and to the other prong of the plug. A light should be obtained there also if the cord is in good order. If either one of these wires is found open, the cord should be replaced.

4. Replacing the Cord Set

With a hot soldering iron and pliers, untwist the terminal leads and detach the cord. You will notice that each cord wire is connected to one each of the field coil and condenser leads. Before attaching a new cord, the Motor Condenser (88) should be tested and a new one fitted if necessary. The test lamp should not light when the tester tips are touching any two of the three condenser wires. This part practically never requires attention, but if there should be extreme radio interference, it may indicate that the Condenser (88) needs to be replaced. To remove the condenser, unsolder the leads and push the condenser through the opening at the front of the motor after first removing the handle and front cover as directed in section 6. Insert new condenser into the gear case from the front of the motor and attach lead wires to one each of the field coil leads and cord wires. Hook the ground wire (uninsulated) underneath the head of one of the Gear Case Cover Screws (13).

4-A. When attaching a new cord or replacing the condenser, the lead wires need not be taped, but they should be folded carefully into the Insulation Box (63) so they do not touch the motor case. Replace Rubber Insulation (65), Terminal Cover (67), and Screw (68) and test the mixer for ground by touching first one terminal prong of the plug with one test tip while the other tip is touching the motor case. Then move over to the other prong of the plug. The lamp should not light; if it does, go back and check the wiring again.

5. Test for Frozen Bearings.

With the cord detached from the outlet grasp the lower part of whippers (69) and turn them inward (whippers should not turn in outward direction; if they do, worm gear (17) is stripped and should be replaced -- see sections 6, 7, and 24). If bearings are "frozen" because of lack of oil or other causes, it will be impossible to revolve the whippers. Observe if there is any motion at all at the Spindle Sleeves (66 and 83); if there is a slight movement at the sleeves, that shows that the spindle sleeves are not frozen, but the Motor Bearings (45 and 146) have seized or the Governor Slide Bearing (44) has stuck to the armature shaft -- see sections 10 and 11. If the spindle sleeves cannot be turned slightly in either direction, sleeves (66 and 83) have seized -- proceed to repair as in the following sections.

6. Remove Front Motor Cover (9) and Motor Handle (5)

Move the handle down to the side of the motor, remove Screw (6), Spring (7) and Washers (8). The handle and front cover can be taken off. Re-

place the bakelite handle assembly if necessary by removing Screws (11) and Lock Washers (10). Proceed to take off Gear Case Cover (14) and Gasket (6) on all models except 7 and 7B. On these two models it is first necessary to remove beater ejector mechanism (12 and 82) as explained on page 8 of recipe book attached. Examine the contents of the gear compartment. Take special notice if there is sufficient lubricant, also determine if the lubricant has been thinned out due to over oiling or carelessness in extracting fruit juices or in cleaning the juice extractor bowl. If water or other liquids have been allowed to overflow the juice extractor bowl and get down into the gear compartment, all of the old lubricant should be cleaned out and the gear compartment repacked with Special Mixmaster Lubricant, as explained in section 25.

7. Removal of Whipper Spindle Sleeves and Oil Retainer Assemblies (66 and 83) also Worm Gears (17).

The worm gears are fastened to the spindle sleeves with Set Screws (16) Remove set screws using Tool 1. Place a whipper in one of the sockets and pull the sleeve downward turning it at the same time. Both sleeves can usually be taken out in this manner, but if the Juicer Sleeve (83) has seized in the bearing, it may be necessary to drive it out. For this purpose, use a brass rod which will pass through the bearing and which can be driven downward through the hole in the cone at the top of the gear case.

7-A. If the sleeves are seized and the set screws cannot be seen from the front of the motor, it may be necessary to force the sleeves and gears around so that the set screws can be reached with Tool 1. Do not attempt to take out the sleeves without first removing the Set Screws (16). (NOTE: A convenient set of tools for this purpose can be made from an old pair of Whippers (69). Remove the whipper bands and bend the lower half of the whipper spindle to form a right angle). With the switch turned off insert whipper tools into the sleeves and use them as wrenches for applying more power while turning the frozen sleeves. Turn both sleeves in an inward direction until the Set Screws (16) can be engaged with the above tool and removed.

7-B. Another method which is helpful in removing seized Spindle sleeves is to turn the motor upside down and squirt kerosene between the outside of the sleeves and the bearing side of the gear case; then attach the governor to the armature shaft and turn the governor and sleeves in the same motion direction with a back and forth movement. The frozen sleeves should gradually loosen. After the sleeves have been removed, Worm Gears (17) are free to be taken out. Use Tool 4 adjusted to size of the Spindle Holes in the motor Housing to clean out all rust, grit, and grease. Do not adjust Tool 4 so that it will cut into the walls of the Spindle Holes. If, due to wear, the sleeves do not fit snugly in the gear case, replace them with the proper oversized sleeves -- see section 24A. See Sections 24, 24A, and 24B to install and align gears and sleeves.

8. How to Remove Governor (40) and Governor Carbon Brush Assembly (36)

The carbon Brush assemblies should be screwed out of Brackets (35 and 60) before any attempt is made to remove the Governor (40). Do not pull brushes and springs out of their containers. Loosen Governor Set Screws (57) with Tool 2 and pull Governor (40) off of armature shaft. If governor sticks to the shaft, insert screw driver back of the Governor and pry with equal pressure so as not to damage the Governor. Examine Governor and Governor Brushes and replace if necessary as explained in section 17 and 18.

9. How to Remove Resistor (38) Governor Condenser (58) and Brackets (35 and 36).

The Resistor and Condenser are held in place by the tension between Brackets (35 and 60). To remove them, spring open upper and lower ends of brackets. With a screw driver take out Screws (37 and 59) and Washers (36), then Brackets (35 and 60) can be taken off.

10. Rear Bracket and Motor Bearing Assembly (32).

The Rear Bracket (32) which contains the Rear Motor Bearing (33) is held to the main motor housing with Screws (34). Do not attempt to remove Bearing (33) from the bracket. The complete bearing and bracket assembly can be pulled out of the motor housing after Screws (34) and Locking Key (26) have been removed. Then, the Armature Assembly (31) can be taken out.

11. How to Free Tight Motor Bearings (33 and 25).

First, thoroughly clean bearing holes by wiping with a clean cloth. Flush out oil holes and Bearings (25 and 33) with kerosene fed from the spout of an oil can. Wipe until thoroughly dry. Rub armature shaft with an oil stone if it is scored or rough and apply oil to the shaft to see that it is free to turn in either bearing. Bearings (33 and 25) must be perfectly aligned, and when they require replacement, send complete motor to the factory for repairs or replace bearings in accordance with instructions in Service Bulletin 13-5 Mixmaster. It is well at this point, while the armature is out, to test it, and the field coils for grounds, etc. as follows:

12. How to Test Armature (31) and Field Coils (29).

To check the armature for grounds, touch one wire tip of test lamp on the armature shaft, then touch the other on each of the commutator bars. If test lamp lights, a ground or conducting path is present between live parts and laminations, and the armature should be replaced with a new one. Examine commutator bars to see if there are burned marks along the edges of any of the bars. Such marks indicate short circuited or open winding and armature should be replaced. Also observe if any wires leading from winding to the Commutator are broken or damaged from rubbing on the brush leads. Replace armature if this condition is found. Commutator should be smooth without excessive ridges or rings cut in it. Commutators with excessive rings cut in them by the Motor Brushes (86) should be

replaced or if a lathe is available they may be turned down with a smooth cut. Check field coils through leads and motor case, for grounds, and through both leads for open circuit. If the Field Coil should be found defective use a rubber or leather mallet and tap on the hinge pin at the bottom of the motor housing until the Field Coil slides out. Do not remove the Field Coil unless it has been found to be defective after making the proper tests.

ASSEMBLING THE MOTOR

13. Motor Carbon Brush Holders (87) and Carbon Brushes (86).

It is seldom necessary to remove the motor Brush Holders (87) but these parts can be taken out when necessary by loosening Screws (27) with a long screw driver. However, before attempting to remove the brush holders, the field coil lead wire clips should be disconnected. The carbon brush holders can be tested for grounds by placing one tip of a test set inside of the brush holder and the other tip on the Motor Case (23). If the test lamp lights, that is an indication that the brush holder is grounded to the motor case and should be replaced. After installing new brush holder, be certain that Screw (27) is tight and that the field coil lead wire clips have sufficient tension and are snapped onto the holders properly to make a good contact.

14. The Armature (31) should be put in place before inserting Carbon Brushes (86) and Springs (85). When installing the carbon brushes see that the curved end of the brush conforms to the curved surface of the commutator (this is important because it minimizes sparking at the commutator). The brushes should be free from oil and grease and if worn short should be replaced with new ones. The Brush Spring (85) should have as good a tension as when new. If the tension is weak, the spring should be replaced. After inserting brushes and springs, tighten Brush Screws (84) securely so that the screws will not loosen while the motor is running.

15. Fitting Rear Bearing Bracket Assembly (32), Brush Holder Bracket (35) and Switch Mounting Bracket (60).

See that Rear Bearing (33) is in good order, then slip Bearing and Bracket Assembly (32) onto the rear end of the armature shaft and push it into place in the motor case. The groove in the top of the motor case should line up with the groove in the bracket. Push Bracket into the housing as far as it will go and lock in place with Locating Key (26) and Screws (34). Place armature Shaft Washer (39) onto the armature shaft so that it will engage the groove in shaft at the rear of the Bearing Bracket Assembly.

15-A. Examine the contact points on the switch (60) to be certain that they make good contact when the switch is pressed, and attach Bracket Assemblies (35 and 60) to the rear bearing bracket with Screws (37). Bracket (60) with switch attached should be placed on the left side as you look at the motor from the rear. Fasten one of the field coil lead wires to each of the Brackets with Screws (59) and Lock Washers. Be certain that screws are tight so that there will be no loose connections at these points.

16. How to Inspect and Attach Resistor (38) and Governor Condenser (58).

Test the Resistor by placing one test tip wire to each of its contact posts. The test lamp should light. If it doesn't the Resistor is open and although the motor would run there would be excessive arcing at the governor contact points. Resistor should be replaced with a new one.

16-A. The Condenser (58) should be tested in a similar manner, but the test lamp should not light when touching the contact posts. If the lamp lights, condenser is short circuited and should be replaced. A shorted condenser would allow the current to go directly into the motor coils, thus cutting the governor control and switch out of the circuit and allowing the motor to operate continuously on high speed only. Under these conditions the motor will run even with the Mix-Finder Control Dial (49) turned to the "OFF" position.

16-B. Spring the ends of Brackets (35 and 105B) together slightly and attach resistor (38) between the top ends of the Brackets and Motor Condenser (58) between the lower portion of the Brackets. See that the Brackets apply sufficient tension on the posts of the Resistor and Condenser to make good contact.

17. Fitting the Governor (40) on the Armature Shaft.

The Governor Assembly (40) should be examined thoroughly before placing it on the armature shaft. First, inspect the brass collector rings. If they are badly pitted or burned, the governor should be replaced unless it is possible to take a light cut off of the rings with a lathe. When doing this, care must be taken to obtain a smooth cut, and above all, to see that the governor runs true on the arbor before and after cutting. This is very important as a noisy motor, excessive governor brush wear, and worn bearings may result if the disc does not run true or if it is thrown out of balance.

Next, examine the Governor Contact Breaker Points (42) mounted on the end of the lever arm. If badly pitted or burned this may indicate that the Resistor (38) is burnt out causing excessive arcing at the breaker points. Test and replace Resistor if necessary as explained in section 16 before replacing the governor. No filing, bending, or changing should be done to the Tungsten breaker points or to the lever arm. Push the Governor Points (42) open and notice if the points close of their own accord. If the points remain open, the spring may not have sufficient tension or may be broken. This would prevent the motor from running except at a very low speed. Place the governor on the armature shaft with the depression on the armature shaft lined up with the small hole in the hub of the Governor. Hold the Governor firmly in place on the shaft while tightening the Governor Set Screw (57) with Tool 2.

18. The Governor Carbon Brush Assemblies (36).

If the brushes are worn or if the springs do not have sufficient tension to hold the brushes firmly against the collector rings, replace the governor brush assemblies with new ones. Also see that the carbon brushes are free from carbon dust or any gummy substance resulting from a mixture of carbon dust and oil. Screw Carbon Brush Assemblies into Mounting Brackets

securely to make good contact. At this state the operation of the motor can be checked by plugging the cord into the socket and carefully closing Switch (60) with a pencil or wood object in such a manner that the pencil will not be struck by the governor when it rotates. The motor should operate at high speed only.

19. Rear Motor Housing and Governor Slide Assembly (45).

The Rear Housing Assembly (45) includes the Governor Slide Bearing and Lever Assembly (44). Examine the Slide (44) also Torsion Spring (44) and Switch Rod (56). If the governor slide bearing has become worn or if the spring does not have sufficient tension to hold the slide back into the housing, the rear Motor Housing Assembly (44) should be replaced. (Note: The Governor Slide Assembly must be in perfect alignment with the armature shaft and so is machine riveted to the rear housing at the factory; therefore, parts 69AR, 40AS, 39AS, and C62AR are supplied separately). See that the Felt Oiling Strip (40AS) and the Oiling Wick (110A) are in place in the housing so that they will feed oil properly to the governor slide bearing and armature thrust screw. A good grade of light machine oil should be used. (Do not use heavy oil).

19-A. If the parts referred to in the preceding section are all in good shape, the Rear Motor Housing Assembly may then be put in place. Be sure that Switch Rod (56) is in position so that it will engage the switch spring. The Governor Slide (44) should be started on the armature shaft in such a manner that the wedge-shaped segments will enter the slots provided in the governor disc. The Rear Housing can then be lined up with the arrow at the top of the motor and fastened in place with Screws (47) and Washers (46).

19-B. Examine Cam Push Pin Assembly (48). This assembly consists of two parts and can be made longer or shorter as needed to increase or decrease the speed of the motor. If the two parts of the Push Pin Assembly fit together loosely, the speed adjustment may change later while the motor is in use. Be sure these parts screw together tightly so the two parts will not turn of their own accord and get out of adjustment. If the parts do fit loosely, unscrew them and with a pair of pliers pinch the split portion and screw the parts together again. (See section 23 for adjusting Push Pin). Place Push Pin into the square opening in the Rear Motor Housing (45) and proceed to attach Mix-Finder Control Dial (49).

20. Attaching Mix-Finder Control Dial (49).

Place the Mix-Finder Control Dial over Rear Motor Housing so the arrow on top of the Motor points to each of the various speeds and the "OFF" position as the dial is turned. If the Dial turns all of the way around, the bakelite "stop" is broken off and the Control Dial should be replaced. Before attaching Thrust Screw Washers (51 and 52) and Lock Nut (53) turn the dial forward and back and notice if the speed changes. If there is no change in speed, the Cam Push Pin (48) was left out. Remove Dial, insert

Push Pin in Rear Motor Housing and reassemble. Insert Spring Washer (51) next to Bakelite Dial with Washer (52) directly behind and turn on Thrust Screw Lock Nut (53) - (Tool 5).

21. Armature Thrust Screw Assembly (50).

The Thrust Screw (50) carried a button of porous bronze bearing material and in operation, the rear end of the armature shaft is in contact with this bearing button. When its position is correctly adjusted, it takes the end-thrust resulting from the worm gears at the front of the armature and keeps the armature correctly aligned with field coil assembly. To adjust, loosen lock nut (53) with Tool 5 and while holding lock nut stationary, tighten thrust screw slowly and carefully (with motor running at 10th speed) until motor stops. Then immediately loosen thrust screw 1/2 turn and holding it in that position with screw driver, tighten Lock Nut (50). Then proceed to adjust speed as indicated below in section 23.

22. The porous bronze bearing button part of the thrust screw (50) has a small hole in its center with a wick which assures adequate lubrication and a reserve supply of oil. The oil normally reaches this point through oil hole No. 5 (see "Instructions for Care and Operation" attached). Some of the first model 5 and 5B Mixers manufactured had bearing buttons without the hole and wick mentioned above, but the wick was added when it was found that if user neglected to oil regularly the button became dry causing motor to be noisy, especially when under load and usually only on certain speeds. If the user continued to operate the mixer in spite of this abnormal sound which resulted from the dry thrust bearing, this would cause the Rear Armature Bearing (33) to wear excessively and require replacement. Motors found with the armature bearing damaged should be returned to factory for repair. When motors are found with dry thrust screw bearing, replace old type thrust screw (50) with one of the new type having bearing button with hole and oil wick. In order to prevent possible future difficulty the factory recommends that the old type thrust screws be replaced with new type when making other repairs.

23. Speed Adjustment.

The motor can be made to run slower or faster by adjusting Cam Push Pin (48). With the Mix-Finder Control Dial (49) set at the No. 1 position, Cam Push Pin (48) can be adjusted with Tool 3 through the small opening near the center of the Mix Finder Dial. (To make this adjustment the Control Dial must be set at the No. 1 speed because the opening in the Dial lines up with the Cam Push Pin only when the Dial is in that position). To increase the speed, turn Push Pin (48) to the "right". Turn to the "left" to decrease the speed. The whipper sleeves should revolve at about 300 R.P.M. when the Control Dial is set at No. 1 speed. With the correct adjustment of the No. 1 speed the motor will turn the whippers at the correct speed on the No. 10 position, which is approximately 1000 R.P.M.

24. Fitting the Worm Gears (17) in the Gear Case (23).

Before installing the Worm gears, inspect the Whipper Spindle Sleeve bearing surfaces and if scored or rough, smooth the bearing or if necessary replace the Motor Case (23). Next, inspect the Whipper Spindle Sleeves (66

and 83) and remove scores or roughness with fine emery cloth. If badly scored, the sleeves should be replaced.

24-A. If, due to wear, the whipper sleeves do not fit snugly in the gear case bearing, oversize Spindle Sleeves should be installed. The factory can supply oversize sleeves in the sizes listed below. Numbers are stamped on spindles to indicate the size. Sleeves larger than "9" (.439 inch in diameter) are very rarely required. When Spindle Sleeves (66 and 83) are ordered according to the number given on the parts list, the standard size sleeve (.436 inch in diameter) is furnished. When oversized sleeves are required, order by adding the number shown below to the part number. For example: If C76X-9 (Key No. 83) is ordered, a Juicer Spindle Sleeve .439 inch in diameter will be furnished, at the regular price. If Spindle Sleeve .439 inch in diameter (Key No. 66) is needed, order C74X-9, etc.

<u>Sleeves marked</u>	<u>Diameter</u>
Unmarked	.436 inch (Standard Size)
Marked 7	.437 inch
Marked 8	.438 inch
Marked 9	.439 inch
Marked 0	.440 inch
Marked 1	.441 inch
Marked 2	.442 inch

Be sure that Felt Washers (64) are fitted in bottom of oil retainer cups. Try oversize sleeve marked 7. If it fits too loosely, try size 8 and so on, until a snug fit is found. Do not install sleeves that fit too tightly for they may seize in the bearings later. In reassembling, it may be necessary to enlarge the opening in hub or worm gears to allow oversize sleeves to enter. (Tool 4).

24-B. To start fitting the worm gears in place, hold Worm Gear (17) and insert gear into right hand side of the gear compartment with the hub down. Place the gear so that the set screw hole in the hub is in front, facing the workman. This is important because it determines the timing of the Whippers (69). Put a film of oil on the Whipper Sleeves (66 and 83) before inserting them into the gear case. Next, while holding gear in position, take the Juicer Spindle Sleeve (83) in the other hand, and push it up through the Gear Case (23) into the gear. While doing this have the depression which is drilled into the sleeve for the worm gear set screw in line with the small hole in the hub of the gear. Insert Set Screw (16) using Tool No. 1 and turn set screw until tight. Follow the same procedure with the other worm gear assemble it to the Whipper Spindle Sleeve (66). Again be certain that both gears are fitted to the sleeves with the set screw holes exactly in front in order to get the proper timing of the whippers.

25. Greasing the Worm Gears.

Put about one tablespoonful only of Special Mixmaster Lubricant (91) in the gear compartment, placing it into the worm portion of the armature and gear teeth as much as possible. It is essential to use Special Mixmaster Lubricant. This grease was chosen by Mixmaster engineers after many tests because it adheres properly to the surfaces that must be lubricated and does not thin out under high temperatures. If leakage takes place at the whipper

sleeves, it is due to using the wrong type of lubricant, over oiling the Motor (oil holes Nos. 3 and 4) or the user has allowed fruit juice, water, or other liquids to overflow the hole in the center of the juice extractor bowl. (See the directions given on the lower half of page 6 in the Model 5-5B Mixmaster Instructions and Recipe Book or page 8 in the Model 7-7B Recipe Book). When the motor has not **been properly cared for and oiled**, the user should be reminded of these instructions so she will have no further difficulty.

- 25-A. To close the worm gear compartment, attach Gasket (15) and Gear Case Cover (14) with Screws (13). Hook the Condenser Ground Wire (88) under one of the screws so it will be grounded to the motor case. On Models 7 - 7B replace beater ejector parts (see page 8 of Recipe Book). The Front Motor Cover (9) and Handle Assembly (5) can now be attached by first inserting Spring (7), washer (8), and then screwing in Retainer Screw (6).

26. Adjusting the Position of the Motor and Whippers (71).

The upright Adjustment Screw (71) is provided at the top of the Upright (75) to set the position of the whippers permanently for the bowls, and to allow a free engagement of the Power Unit Attachment and other attachments, between the two holes in the Mixmaster Base and the motor.

To adjust Screw (71), put the motor on the stand and loosen Lock Nut (72), then turn Screw 32 up or down until the bottom of the Spindle Sleeves are 6-3/8" from the Base. Also check the space between the bottom of the whippers (69) and the surface of the Mixing Bowls (81, 89, and 90) on models 5 through 7B-1. Whippers must come close to surface of bowl so all ingredients in the bowl will be mixed (and so bowl will turn), but the whippers should not rub on bowl. If whippers touch the bowl, set Adjusting Screw (71) higher. If whippers do not come close to surface of bowl, adjust Screw (71) lower. When the screw has been properly adjusted, lock it in place by tightening Nut (63). On model 9, the adjustment is the same as mentioned above, but the outside beater with the nylon button (C57BY), must rest on the mixing bowl.

27. Radio Interference.

These models are equipped with a Motor Filter Condenser (88) similar to that used in previous automatic models. This part practically never requires attention, but if there should be extreme radio interference it may indicate that the Motor Condenser (88) needs to be replaced. See section 4. Should the user of the Mixmaster prefer not to have the non-radio interfering feature, the condenser can be removed entirely (see sections 4 and 4-A), or the ground wire can be disconnected and taped so that it does not touch the Motor Case, after removing Front Motor Cover (9) and Gear Case Cover (14) as explained in section 6.

Synopsis of Repairs and How to Make Them

28. Motor "crawls" but has no "high" speed.

Governor Brushes (36) have worn away or contact breaker points (42) may be

burned and do not make contact; replace governor or brushes as needed -- see sections 2, 2A, 8, and 17 to 23.

29. Motor Runs on High Speed Only.

29-A. Governor Condenser (58) may be shorted. Replace condenser (58) as in section 16.

29-B. Tungsten Points (42) may be fused together. Replace Governor (40) as in sections 2, 2A, 8, and 17 to 23.

30. Motor Jerks when Running,
Especially on Low Speed.

30-A. Governor Condenser (58) shunted across Breaker Points (42) is open. This is also accompanied by excessive sparking at the governor points. Replace Condenser Unit (58) as in section 16.

30-B. Open circuit in Resistor (38). Replace resistor by taking down back end of motor as in sections 2 and 2A. Change resistor and reassemble as in sections 16 to 23.

30-C. Speed Control set too slow. Adjust Cam Push Pin as explained in section 23.

31. Motor Runs Normally Except
1st Speed is too Slow.

(less than 275 r.p.m. at whipper spindle sleeve) (83).

31-A. Governor (40) needs replacement as in sections 2, 2A, 8, and 17 to 23.

31-B. Speed Control set too slow. Adjust Cam Push Pin (48) as in section 23.

32. Motor Does Not Run at All

32-A. Switch (60) may be open. Repair as in sections 1, 2, 2A, and 19 to 23, and examine silver contacts on Spring (60). Possibly Switch Spring (60) should be bent down on the contact end and up in the center so as to touch end of switch rod.

Reassemble as in sections 15 to 23.

32-B. Commutator Brushes (86) may need replacement. See sections 13 and 14.

32-C. Governor Brushes (36) may need replacement. Repair as in sections 2, 2A, 8, and 18 to 23.

32-D. Motor Bearings (25) may be "Frozen". See sections 5, 10, 11 and 15.

32-E. Whipper Spindle Sleeves (66 and 83) may be frozen in the gear case bearings. See sections 5, 6, 7, and 24.

32-F. Cord (61) may be broken. Test and repair cord as in sections 1 through 4 and 4A.

32-G. Field may be opened. Section 12

33. Excessive Radio Interference.

33-A. A Motor Condenser (88) may have open circuit. See section 27.

34. Excessive Shock from Motor Case.

34-A. Ground, or short circuit, through insulation. Take down motor and test as in sections 3, 3A, 4A, 12 and 12A.

35. Motor Loss of Power.

(Temperature rise excessive).

35-A. Partially frozen bearings. See section 3, 5, and 11.

35-B. Armature (31) may require replacement. Possibly Commutator Brushes (86) are sparking badly. See section 12.

35-C. Field Coils (29) may be partially shorted or "slow".

36. Motor Runs but Whippers Do not Turn.

36-A. Worm Gears (17) may be stripped or loose from metal hub, Repair as in sections 6, 7, 7A, 7B, 24 to 26A inclusive.

37. Motor Speed Does not Change when Mix-Finder Dial is Moved from 1st to 3rd Speed.

37-A. Thrust Screw (50) may be adjusted too loosely. Re-adjust thrust screw as in section 21 and 22.

37-B. Cam Push Pin (48) may be adjusted too long. Adjust push pin as in section 19-B.

37-C. Too much clearance in governor slide (44). Inspect rear motor housing and Governor Slide Assembly (45), replace if necessary. See sections 19 to 23.

38. If Motor Speed Does not Change When Mix-Finder Dial is Turned from 7th to 10th Position.

38-A. Cam Push Pin (48) may be too short. Adjust push pin as in section 19-B.

38-B. Too much clearance in Governor Slide Assembly (44). Inspect and replace rear motor housing and Governor Slide Assembly (45) if necessary.

- 38-C. Motor may have too much friction in Armature Bearings (25 and 33), Spindle Sleeves (13 and 20), and Governor Slide Bearing (44). If high speed is 1000 R.P.M. or over, the foregoing is not the cause of the difficulty. If speed is under 1000 R.P.M. let motor run in for one hour and check speeds. Test 110-120 volt motor on 115 volts.
- 38-D. Motor may be cold. A cold motor might not show speed variations at the high Dial positions. Check speeds after motor has run for several minutes.
- 38-E. Voltage may be low. At low voltages the maximum speed of the motor is lower; consequently no speed change can take place after maximum speed has been reached. If maximum speed is obtained with Mix-Finder Dial set at position 8 (about 900 R.P.M.), there will be no change from the eighth to tenth speed. A longer cam push pin will help this condition somewhat -- see section 19-B.
- 38-F. Thrust screw (50) may be adjusted too tightly. Re-adjust thrust screw as explained in section 21.
- 38-G. Motor may be operating under heavy load. When motor is doing heavy work, mixing heavy batters, etc., no speed change may take place when the Dial is turned to the higher speed positions.

39. Noisy Motor.

- 39-A. Thrust screw bearing may be worn. Examine and replace as explained in sections 2 and 21 to 23.
- 39-B. Rear Motor Bearing (33) may be oversize. Return motor to factory for Repairs.
- 39-C. Governor (40) may be off balance. Install new governor -- see section 17.
- 39-D. Armature (31) may be off balance. Replace armature see sections 12 to 23.
- 39-E. A metal chip or some other foreign material may have gotten into the teeth of Worm Gear (17). Examine gears as in sections 6, 7, 7A, and 7-B and remove chip or replace worm gears if worn or damaged. See sections 24, 24-A, and 24-B.

40. If Spindle Sleeves (86 and 83) have Seized in Bearings.

- 40-A. These parts may not have been oiled according to directions -- see sections 5, 6, 7, 7-A, and 7-B. Also 24, 24-A, and 24-B.

- 40-B. There may be a burr in spindle sleeve bearing hole. Smooth bearing surfaces in gear case, or replace gear case, and replace seized spindle sleeve if necessary. See sections 4, 6, 7, 7-A, 24, 24-A, and 24-B.
- 40-C. Batter or other ingredients may have gotten into spindle sleeve oil retainer cups and worked up into sleeve bearings. Remove spindle sleeves and clean out bearings and spindles, as described in sections 6, 7, 7-A, and 7-B, 24, 24-A, and 24-B.
- 40-D. The user may have allowed fruit juice, water, or other liquids to get into the gear case through the hole in the center of the juicer bowl (and through juicer bowl cone on the front of the motor) causing sleeves to seize in bearings. Clean spindle sleeves or replace, also clean and repack worm gear compartment with new supply of special Mixmaster Lubricant -- see section 24.

41. If Leakage Takes Place at Spindle Sleeves (66 and 83).

- 41-A. Too much oil has been placed into the oil holes Nos. 3 and 4 (see oiling instructions) or liquids were allowed to overflow hole in center of juice extractor bowl, or motor has been repacked with wrong type of grease. Clean and repack worm gear compartment with new Mixmaster Lubricant -- see sections 6, 25, and 25-A. Explain cause of leakage to the user when returning motor.
- 41-B. Spindle Sleeves (66 and 83) may fit loosely in gear case. Remove sleeves and replace with oversized sleeves as needed -- see sections 24-A and 24-B.

* * * * *

*THE TOOLS LISTED IN THIS BULLETIN ARE:

<u>Reference No.</u>	<u>Tool No.</u>	<u>Description</u>
Tool 1	T-16023	For Set Screw in worm gear (P9922).
Tool 2	Standard	Wrench Allen Head Size 5/64 for Set Screw (35Q) on Governor (C70AR).
Tool 3	Standard	Wrench Allen Head Size 1/16 for Adjusting Cam Push Pin and Nut (G52AR).
Tool 4	Standard	Reamer Expanding Type Size 7/16 to 1/2 for Spindle Hole.
Tool 5	T-20213	For Thrust Screw (C56AR) lock Nut (75N)

*Tools with T number - order from the factory. Standard tools-purchase locally.

SUNBEAM CORPORATION
5600 West Roosevelt Road
Chicago, Illinois - U.S.A.

SUNBEAM APPLIANCE PARTS LIST

December 17, 1956

Date of Manufacture

Models 5 & 5B Aug., 1939
 Models 5-1 & 5B1 Jan., 1941
 Models 7 & 7B April, 1941
 Models 7-1 & 7B1 Oct., 1941
 Model 9 Aug., 1948

**SUNBEAM MIXMASTER**

IMPORTANT NOTICE: Our part numbering system is being changed. For quick, accurate service, please order by STOCK NUMBER shown in second column. For cross reference, parts that have been assigned new numbers will have the old number in parentheses behind the Description of Part.

Key	No.	Stock No.	Description of Part	Models	Retail Price
1	10-C3Y	Reamer with Spindle.....	5 5B 5-1 5B1 7 7B 7-1 7B1	1.05	
1	10-1188	Reamer with Spindle (G19BS).....		9 1.30	
1	10-1189	Reamer only (31BS).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.35	
2	10-C39BD	Strainer.....	5 5B 5-1 5B1 7 7B 7-1 7B1	.75	
2	10-1185	Strainer (C75BS).....		9 1.05	
3	10-P9262-4	Juicer Bowl (Green)....	5	2.55	
3	10-P9262-7	Juicer Bowl (White)....	5B	2.55	
3	10-84BF	Juicer Bowl (Green)....	5-1 7 7-1	2.55	
3	10-83BA	Juicer Bowl (White)....	5B1 7B 7B1	3.15	
3	10-15BS	Juicer Bowl (White)....		9 2.50	
3	10-1184	Juicer Bowl (White) (99CN).....		9 2.50	
4	10-P9311-2	Spout.....	5 5B	.85	
4	10-87BA	Spout.....	5-1 5B1 7 7B 7-1 7B1	.85	
4	10-87BA-1	Spout for 10-15BS Bowl...		9 .85	
4	10-1194	Spout for 10-1184 Bwl (44CA)		9 .85	
5	10-C37AS-1	Motor Handle.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.20	
6	10-42AS	Motor Cover Screw.....	5 5B 5-1 5B1 7 7B	9 .25	
6	10-7BG	Motor Cover Screw.....		7-1 7B1 .25	
7	10-1130	Spring (55AS).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12	
8	10-1129	Washer (89AS).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05	
9	10-C46AW	Motor Cover (Ivory)....	5 5-1	1.05	
9	10-C45AW	Motor Cover (White)....	5B 5B1	1.05	
9	10-C66BG	Motor Cover (Ivory)....	7	1.05	
9	10-C29BF	Motor Cover (White)....	7B	9 1.05	
9	10-C91BH	Motor Cover (Ivory)....	7-1	1.30	
9	10-C90BH	Motor Cover (White)....	7B1	1.30	
10	10-1125	Washer (2 Used)(P8234)..	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05 ea.	

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SUNBEAM APPLIANCE PARTS LIST

Key No.	Stock No.	Description of Part	Models	Retail Price
11	10-1126	Handle Screw (2 Used) (E116).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05 ea.
12	10-1121	Ejector Spring (9BF)...	7 7B 7-1 7B1 9	.12
13	10-1120	Screw (4 Used) (98BQ)...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05 ea.
14	10-C24X	Gear Case Cover.....	5 5B 5-1 5B1	.45
14	10-C20BF	Gear Case Cover.....	7 7B	9 .45
14	10-C48BG	Gear Case Cover (Obs.)	7-1 7B1	
15	10-3BG	Cover Gasket.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12
16	10-1110	Set Screw (2 Used) (P9922)	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12 ea.
17	10-C56CA	Worm Gear (2 Used)...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.85 ea.
18	10-1043	Catch Pin Spring (7Y)...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12
19	10-96X	Handle Catch Pin.....	5 5B 5-1 5B1 7 7B	9 .12
19	10-8BG	Handle Catch Pin.....	7-1 7B1	.12
20	10-1238	Spindle Oil Wick (9X) ...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12
21	10-30X	Spindle Hole Plug.....	5 5B 5-1 5B1 7 7B	9 .25
22	10-1010	Oil Tube (32X).....	5 5B 5-1 5B1 7 7B	9 .12
22	10-37BG	Oil Tube (Not Avail.)...	7-1 7B1	
23	10-G42CA	Motor Case & Bearing Bracket Assemblies with Bearing (Includes Key Nos. 18-19-21-22-24-25-27- 32-33-34 & 87) (White finish).....		9 8.35
		NOTE: Motor Case for Models 5 thru 7B are not available. Use 10-G42CA Motor Case. Replace Bearings, Spindle Sleeves, & Motor Cover. On Models 5 thru 5B1, add Ejector and Ejector Spring. See Note, Key No. 25.		
24	10-1041	Transfer (4CC).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12
25	10-86AR	Front Armature Bearing	5 5B 5-1 5B1 7 7B 7-1 7B1	.40
25	10-13CA	Front Armature Bearing		9 .25
		NOTE: Use Special Tools T-31287 Line Reamer for Models 5 thru 7B1 & T-29496 Line Reamer for Model 9. Bearing 10-86AR & 10-12CA sizes .3126 to .3129. Bearing 10-13CA size .3114 to .3117 Bearing 10-96AR size .3436 to .3439.		

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SUNBEAM APPLIANCE PARTS LIST

Key									Retail
No.	Stock No.	Description of Part	Models						Price
26	10-91AR	Locating Key.....	5 5B 5-1 5B1 7 7B					9	.05
27	10-2618	Brush Holder Screw							
		(2 Used).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.10 ea.
28	10-1206	Clips (2 Used) (11BR) ...	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.05 ea.
29	*10-C88AR	Field Coils 110-120 V. (Includes Key Nos. 29A- 29B & 29C).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9						4.45
29A	10-C14BR	Upper Coil.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9						1.10
29B	10-C5BR	Lower Coil	5 5B 5-1 5B1 7 7B 7-1 7B1 9						1.40
29C	10-1214	Braid (17BR).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.06
29D	10-72P	Field Coil Term. (2 Used)	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.05 ea.
30	10-39Z	Insulating Sleeve (2 Used)	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.12 ea.
31	*10-C4CA	Armature 85 to 130 V ...	5 5B 5-1 5B1 7 7B 7-1 7B1 9						7.45
		NOTE: Replace old Bearings with Bearings 10-12CA & 10-13CA when using 10-C4CA Armature on Models prior to Model 9. See Note Key No. 25:							
31A	10-62N	Armature Thrust Button.	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.25
32	10-G11CA	Rear Bracket Assembly with Bearing, Key 33....						9	1.05
		NOTE: This Assembly used on Models 5 thru 7B if Bearing is replaced with Bearing 10-96AR Key No. 33.							
33	10-96AR	Rear Armature Bearing (See Note Key No. 25) ...	5 5B 5-1 5B1 7 7B 7-1 7B1						.40
33	10-12CA	Rear Armature Bearing (See Note Key No. 25) ...						9	.25
34	10-93AR	Bracket Screw (2 Used)..	5 5B 5-1 5B1 7 7B					9	.12 ea.
34	10-36BG	Bracket Screw (2 Used)..					7-1 7B1		.12 ea.
35	10-C97AR	Mounting Bracket.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.70
36	10-C14AS	Governor Brush (2 Used)	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.40 ea.
37	10-52AT	Bracket Screw (4 Used)..	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.05 ea.
38	*10-1094	Resistor 85-160 V (C57CD).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.50
39	10-35AS	Armature Shaft Washer .	5 5B 5-1 5B1 7 7B 7-1 7B1 9						.12
40	10-C70AR	Governor Assembly (Includes Key Nos. 40A thru 43 & 57)	5 5B 5-1 5B1 7 7B 7-1 7B1 9						4.00

*See schedule of parts for other voltage Mixmasters shown at end of list.

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SUNBEAM APPLIANCE PARTS LIST

Key	No.	Stock No.	Description of Part	Models	Retail Price
	40A	10-25AS	Rivet.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.04
	40B	10-C78AR	Stationary Contact.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.20
	41	10-53AS	Control Spring.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05
	42	10-C80AR	Bracket with Points.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.05
	43	10-1355	Clip Washer.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05
	44	10-C64AR	Governor Slide.....	5 5B 5-1 5B1 7 7B	9 1.05
	44	10-C56BG	Governor Slide(Obs.)..	7-1 7B1	
		10-69AR-1	Torsion Spring(Not shown)	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.25
		10-40AS	Oiling Strip(Not shown) .	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05
		10-39AS	Oil Wick(Not shown)....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05
		10-62AR	Slug (Not shown).....	5 5B 5-1 5B1 7 7B	9 .04
	45	10-C44AW	Rear Housing(Ivory finish)	5 5-1 7	3.15
	45	10-G97BH	Rear Housing(Ivory (Obs.)	7-1	
	45	10-G43AW	Rear Housing(White finish)	5B 5B1 7B	9 3.15
	45	10-G98BH	Rear Housing(White (Obs.)	7B1	
NOTE : All Rear Housings incl. Key No. 44 and Stock Nos. 10-69AR-1, 10-40AS, 10-39AS, 10-62AR.					
	46	10-1125	Washer(2 Used)(P8234) .	5 5B 5-1 5B1 7 7B	9 .05 ea.
	47	10-21AS	Housing Screw (2 Used) .	5 5B 5-1 5B1 7 7B	9 .05 ea.
	47	10-35BG	Housing Screw (Not Avail)	7-1 7B1	
	48	10-G52AR-1	Adjustable Cam Pin....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.40
	49	10-51AR-1	Switch Dial (Thin wall) ..	7-1 7B1	1.40
	49	10-51AR-2	Switch Dial (Thick wall) .	5 5B 5-1 5B1 7 7B	9 1.40
	50	10-C56AR	Thrust Screw Assembled	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.25
	51	10-85AF	Spring Washer.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12
	52	10-76N	Flat Washer.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12
	53	10-75N-1	Lock Nut.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.25
	54	10-1133	Cap (22AS).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.40
	55	10-P33	Rivet (2 Used).....	5 5B 5-1 5B1 7 7B	9 .05 ea.
	56	10-C54AR-1	Switch Rod.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.25
	57	10-35Q	Set Screw.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.25
	58	*10-2065	Governor Condenser 85-160 V (C47CN).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.90
	59	10-P9202	Terminal Screw(2 Used).	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.07 ea.
		10-1737	Terminal Screw Lock Washer(2 Used) (Not shown)(P7008)	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05 ea.
	60	10-C1AS	Switch Bracket Assem..	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.25
	61	10-1050	Cord Set (C46BY).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.75
	62	10-1107	Hinge Pin (P20709).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.25
	63	10-1049	Insulation Box(49AR) ..	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.40
	64	10-1055	Packing(2 Used)(54S)....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.08 ea.
	65	10-1051	Cover Insulation(48AR).	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12

* See schedule of parts for other voltage Mixmasters shown at end of list.

All prices subject to change without notice

Key	No.	Stock No.	Description of Part	Models										Retail Price	
	66	10-C74X	Spindle Sleeve.....	5	5B	5-1	5B1							1.05	
	66	10-C13BF	Spindle Sleeve.....					7	7B			9		.95	
	66	10-C46BG	Spindle Sleeve.....							7-1	7B1			1.05	
			NOTE: For oversize Spindle Sleeves add -7 or -8 to stock numbers (Example 10-C74X-7)												
*67			Terminal Box Cover. Order according to model no. listed below. Use Mixmaster prefix 10- with all Stock Numbers.....												.25
			<u>Voltage</u> <u>Stamped</u> 110-120V	<u>Model</u> <u>5</u> 92AR-1	<u>Model</u> <u>5B</u> 92AR	<u>Model</u> <u>5-1</u> 92AR-3	<u>Model</u> <u>5B1</u> 92AR-2	<u>Model</u> <u>7</u> 59BF	<u>Model</u> <u>7B</u> 7BF	<u>Model</u> <u>7-1</u> 58BH	<u>Model</u> <u>7B1</u> 26BG	<u>Model</u> <u>9</u> 20CA			
	68	10-1052	Cover Screw (33Q)....	5	5B	5-1	5B1	7	7B	7-1	7B1	9		.05	
	69	10-1140	Clutch Spring (2 Used) (P9415).....	5	5B	5-1	5B1	7	7B	7-1	7B1	9		.03 ea	
	70	10-5913	Beater (2 Used) (C33Y-1)	5	5B	5-1	5B1							1.05	
	70	10-5920	Beater Set (two 10-5913)	5	5B	5-1	5B1							2.10	
		10-31Y	Beater Release Washer (2 Used) (Not Shown) ..	5	5B	5-1	5B1							.25 ea.	
	70	10-5914	Beater (2 Used) (C3BF)						7	7B	7-1	7B1		1.05 ea.	
	70	10-5921	Beater Set (two 10-5914)						7	7B	7-1	7B1		2.10	
	70	10-5915	Beater (C3BF-1)....										9	1.15	
	70	10-5918	Beater with nylon Button (C57BY).....										9	1.25	
	70	10-5919	Beater Set (G83CA) (one 10-5915 & one 10-5918)										9	2.40	
	71	10-1171	Adj. Screw (P20751)...	5	5B	5-1	5B1	7	7B	7-1	7B1	9		.25	
	72	10-1170	Lock Nut (P6649)....	5	5B	5-1	5B1	7	7B	7-1	7B1	9		.05	
	73	10-C42AR	Trigger Assembly....	5	5B	5-1	5B1	7	7B	7-1	7B1	9		.55	
	74	10-1176	Trigger Pin (P20718) .	5	5B	5-1	5B1	7	7	7-1	7B1	9		.12	
	75	10-35AW	Upright Only (Ivory)...	5		5-1			7		7-1			2.65	
	75	10-41AR	Upright Only (White) ..		5B		5B1		7B		7B1	9		2.65	
	76	10-C34AW	Base & Pads (Ivory) (Not Available).....	5											
	76	10-C44AR	Base & Pads (Black) ..		5B									3.15	
	76	10-C95BB-1	Base & Pads (Ivory) .					5-1	(Substitute 10-C75BF)						
	76	10-C95BB	Base & Pads (Black) ..						5B1	(Sub. 10-C17CA)					
	76	10-C75BF	Base & Pads (Ivory)...						7					3.15	
	76	10-C34BF	Base & Pads (Black) .. (Sub. 10-C17CA)						7B						

*See schedule of parts for other voltage Mixmasters shown at end of list.

All prices subject to change without notice.

SUNBEAM APPLIANCE PARTS LIST

Key No.	Stock No.	Description of Part	Models	Retail Price
76	10-C67BH	Base & Pads (Ivory)... (Sub. 10-C75BF)	7-1	
76	10-C19BH	Base & Pads (Black)... (Sub. 10 C17CA)	7B1	
76	10-17CA	Base & Pads (Black)....		9 3.15
77	10-P8038	Base Pad (5 Used).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.12 ea.
78	10-3180	Washer (3 Used)(P8279)	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.05 ea.
79	10-97BQ	Screw (3 Used).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.07 ea.
80	10-G40AR-1	Base, Upright Assem. (Ivory).....	5	7.30
80	10-G40AR	Base, Upright Assem. (White).....	5B	7.30
80	10-G40AR-2	Base, Upright Assem. (White)(Sub. 10-G19CA) .	5B1	
80	10-G76BF	Base, Upright Assem. (Ivory)(Sub. 10-G66BH) .	5-1 7	
80	10-G33BF	Base, Upright Assem. (White)(Sub. 10-G19CA) .	7B	
80	10-G66BH	Base, Upright Assem. (Ivory).....	7-1	7.30
80	10-G18BH	Base, Upright Assem. (White)(Sub. 10-G19CA) .	7B1	
80	10-G19CA	Base, Upright Assem. (White).....	9	7.30
NOTE: All Base, Upright Assem. Includes Key Nos. 71 thru 79				
81	10-C88X	Disc (Ivory).....	5	1.75
81	10-G83BF	Disc (Ivory).....	5-1 7 7-1	1.75
81	10-C88X-1	Disc (Black).....	5B	1.75
81	10-C50CA	Disc (Black)....	5B1 7B 7B1 9	1.75
82	10-C65BG	Ejector (Ivory finish)...	7	1.05
82	10-C22BF	Ejector (White finish)...	7B 9	1.05
82	10-C96BH	Ejector(Ivory finish)(N.A.)	7-1	
82	10-C99BH	Ejector(White finish)(N.A.)	7B1	
83	10-C76X	Juicer Spindle Sleeve... 5 5B 5-1 5B1		1.20
83	10-C17BF	Juicer Spindle Sleeve...	7 7B	1.20
83	10-C47BG	Juicer Spindle Sleeve...	7-1 7B1	1.20
83	10-C48CA	Juicer Spindle Sleeve...	9	1.20
NOTE: See Note Key No. 66				
84	10-1047	Brush Screw (2 Used) (C8859-1).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.20 ea.
85	10-1046	Brush Spring (2 Used) (P8856-1).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.08 ea.
86	*10-1045	Carbon Brush (used in all motors except 32V) (2 Used) (P9085).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.35 ea.

*See schedule of parts for other voltage Mixmasters shown at end of list.

All prices subject to change without notice

SUNBEAM APPLIANCE PARTS LIST

10-23

Key No.	Stock No.	Description of Part	Models	Retail Price
87	10-1004	Brush Holder (2 Used) (C8858-1).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.70 ea.
88	*10-1044	Condenser for 85-160 V (For two wire cord) (C8BF).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.60
89	10-P20782-1	Bowl Small (White).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.50
90	10-P20775-2	Bowl Large (White).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	2.25
91	10-2474	Lubricant (2 oz. tube) (P20846).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.50
91	10-4887	Lubricant (1 lb. jar) (P21016).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.45
92	10-2476	Touchup Paint (White) (G24CN).....		3.05
	10-C56BE	Oil Dropper Assembly (Not shown).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.55
	10-C55BE	Cork Assembly for Oil Dropper (Not shown) ...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.45

*See schedule of parts for other voltage Mixmasters shown below:

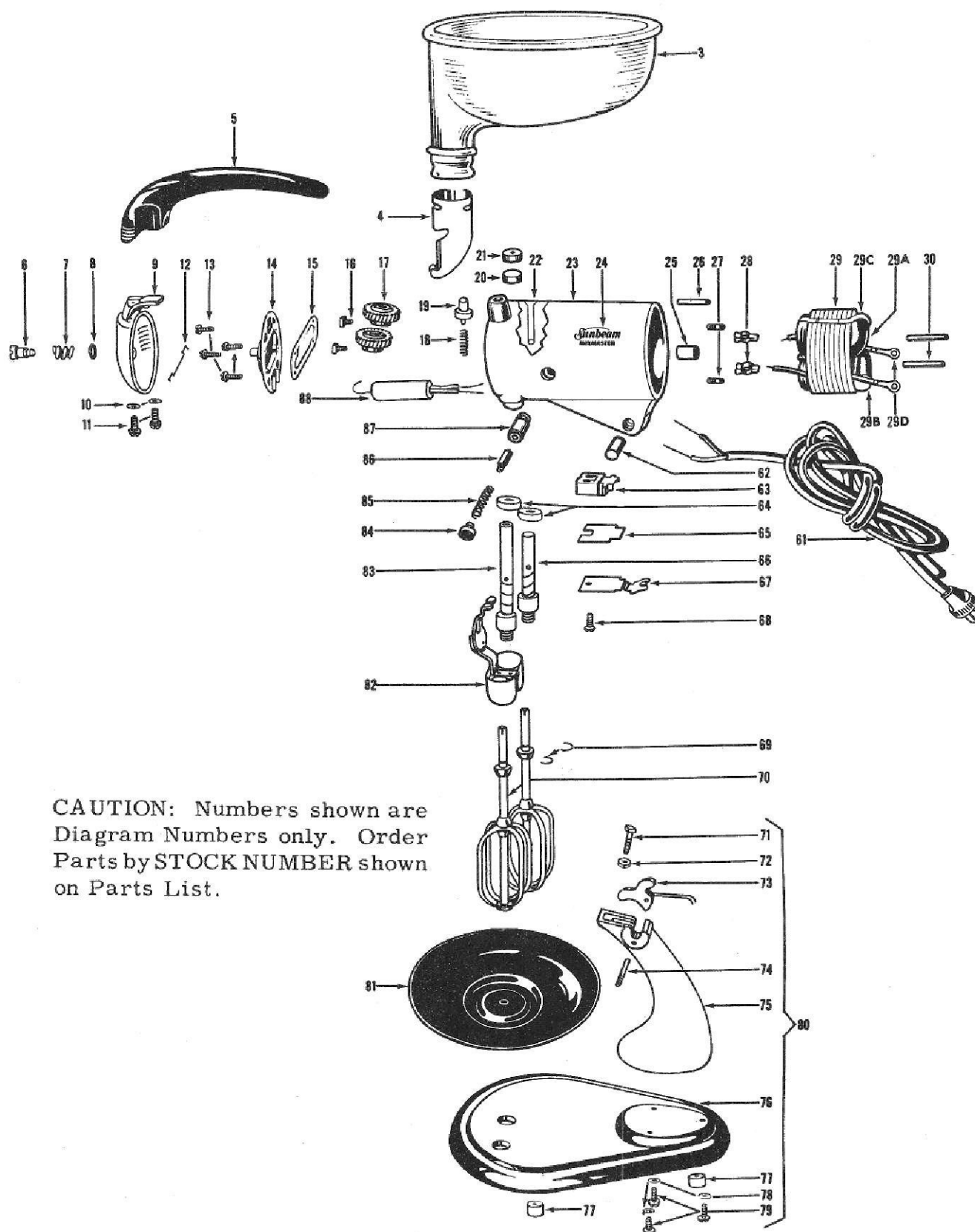
PARTS FOR OTHER VOLTAGE MIXMASTERS

29	10-C15AV	Field Coils 85-100 V ...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	4.70
29	10-C9AV	Field Coils 125-130 V...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	4.70
29	10-C10AV	Field Coils 150-160 V...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	5.40
29	10-C11AV	Field Coils 190-210 V ..	5 5B 5-1 5B1 7 7B 7-1 7B1 9	4.70
29	10-C12AV	Field Coils 220 V.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	5.40
29	10-C13AV	Field Coils 230-250 V...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	4.70
29	10-C14AV	Field Coils 32 V.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	4.70
31	10-C16AV	Armature 150-160 V...	5 5B 5-1 5B1 7 7B 7-1 7B1	8.25
31	10-C36CA	Armature 150-160 V....		9 8.25
31	10-C18AV	Armature 190-250 V....	5 5B 5-1 5B1 7 7B 7-1 7B1	8.25
31	10-C37CA	Armature 190-250 V....		9 8.25
31	10-C20AV	Armature 32 V.....	5 5B 5-1 5B1 7 7B 7-1 7B1	8.25
31	10-C38CA	Armature 32 V.....		9 8.25
38	10-C6AE	Resistor 190-250 V....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.10
38	10-C7AE	Resistor 32 V.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.10
58	10-C48CN	Gov. Condenser 190 - 250 V.....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.90
58	10-C9AE	Gov. Condenser 32 V ...	5 5B 5-1 5B1 7 7B 7-1 7B1 9	1.10

Continued on Page D-26

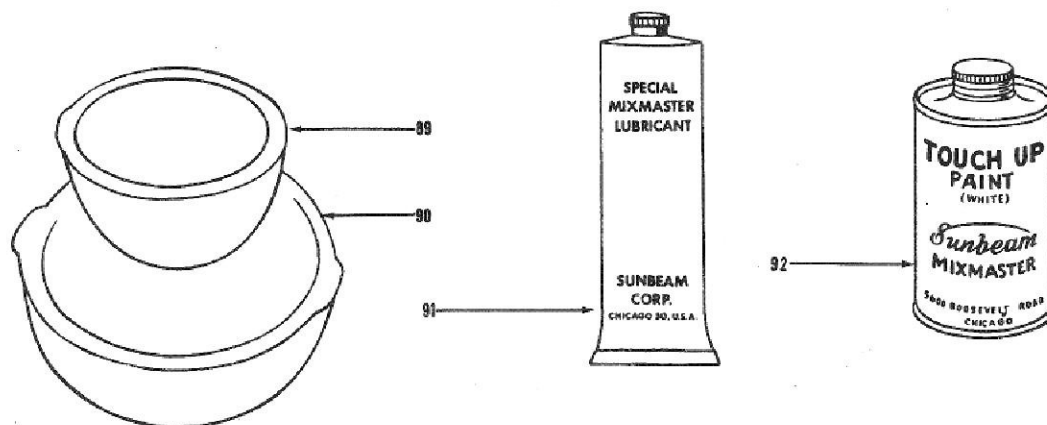
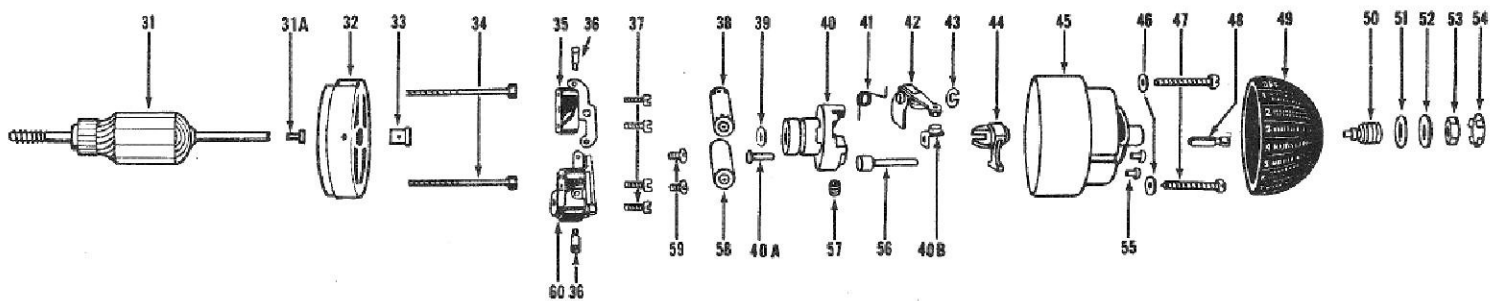
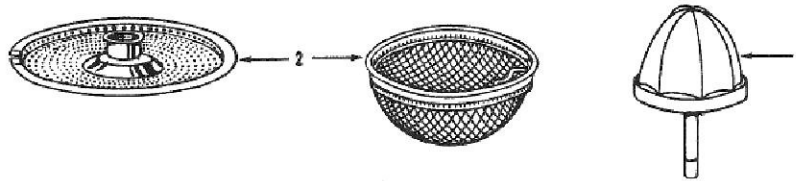
All prices subject to change without notice

PARTS DIAGRAM
Sunbeam Mixmaster
 Models 5, 5B, 5-1, 5B1
 7, 7B, 7-1, 7B1, and 9



CAUTION: Numbers shown are Diagram Numbers only. Order Parts by STOCK NUMBER shown on Parts List.

CAUTION: Numbers shown are
Diagram Numbers only. Order
Parts by STOCK NUMBER shown
on Parts List.



SUNBEAM APPLIANCE PARTS LIST

Key No.	Stock No.	Description of Part	Models	Retail Price																																																																															
67		Terminal Box Cover. Order according to voltage & model no. listed below. Use Mixmaster Prefix 10- with all Stock Numbers.....		.25																																																																															
		<table><tr><th>Voltage Stamped</th><th>Model 5</th><th>Model 5B</th><th>Model 5-1</th><th>Model 5B1</th><th>Model 7</th><th>Model 7B</th><th>Model 7-1</th><th>Model 7B1</th><th>Model 9</th></tr><tr><td>125-130V</td><td>25AV</td><td>24AV</td><td>25AV-1</td><td>24AV-1</td><td>61BF</td><td>49BF</td><td>60BH</td><td>81BH</td><td>21CA</td></tr><tr><td>150-160V</td><td>27AV</td><td>26AV</td><td>27AV-1</td><td>26AV-1</td><td>62BF</td><td>50BF</td><td>61BH</td><td>82BH</td><td>22CA</td></tr><tr><td>190-210V</td><td>29AV</td><td>28AV</td><td>29AV-1</td><td>28AV-1</td><td>63BF</td><td>51BF</td><td>62BH</td><td>83BH</td><td>23CA</td></tr><tr><td>220V</td><td>97AU</td><td>98AU</td><td>97AU-1</td><td>98AU-1</td><td>60BF</td><td>48BF</td><td>59BH</td><td>80BH</td><td>24CA</td></tr><tr><td>230-250V</td><td>31AV</td><td>30AV</td><td>31AV-1</td><td>30AV-1</td><td>64BF</td><td>52BF</td><td>63BH</td><td>84BH</td><td>25CA</td></tr><tr><td>32V</td><td>33AV</td><td>32AV</td><td>33AV-1</td><td>32AV-1</td><td>65BF</td><td>53BF</td><td>64BH</td><td>85BH</td><td>26CA</td></tr><tr><td>85-100V</td><td>35AV</td><td>34AV</td><td>35AV-1</td><td>34AV-1</td><td>66BF</td><td>54BF</td><td>65BH</td><td>86BH</td><td>27CA</td></tr></table>	Voltage Stamped	Model 5	Model 5B	Model 5-1	Model 5B1	Model 7	Model 7B	Model 7-1	Model 7B1	Model 9	125-130V	25AV	24AV	25AV-1	24AV-1	61BF	49BF	60BH	81BH	21CA	150-160V	27AV	26AV	27AV-1	26AV-1	62BF	50BF	61BH	82BH	22CA	190-210V	29AV	28AV	29AV-1	28AV-1	63BF	51BF	62BH	83BH	23CA	220V	97AU	98AU	97AU-1	98AU-1	60BF	48BF	59BH	80BH	24CA	230-250V	31AV	30AV	31AV-1	30AV-1	64BF	52BF	63BH	84BH	25CA	32V	33AV	32AV	33AV-1	32AV-1	65BF	53BF	64BH	85BH	26CA	85-100V	35AV	34AV	35AV-1	34AV-1	66BF	54BF	65BH	86BH	27CA	
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32V	33AV	32AV	33AV-1	32AV-1	65BF	53BF	64BH	85BH	26CA																																																																										
85-100V	35AV	34AV	35AV-1	34AV-1	66BF	54BF	65BH	86BH	27CA																																																																										
86	10-85M	Carbon Brush (2 Used on 32 V motor).....	5 5B 5-1 5B1 7 7B 7-1 7B1 9	.30 ea.																																																																															
88	10-C74AE	Condenser for motor 190 - 250 V (For two wire cord).....	5 5B 5-1 5B1	1.60																																																																															
88	10-C44BF	Condenser for motor 190 - 250 V (For two wire cord).....	7 7B 7-1 7B1 9	1.60																																																																															
88	10-C10AE	Condenser for motor 32 V (For two wire cord).....	5 5B 5-1 5B1	1.60																																																																															
88	10-C47BF	Condenser for motor 32 V (For two wire cord).....	7 7B 7-1 7B1 9	1.60																																																																															
88	10-C72AE	Condenser for motor 190 - 250 V (For three wire cord).....	5 5B 5-1 5B1	1.60																																																																															
88	10-C46BF	Condenser for motor 190 - 250 V (For three wire cord).....	7 7B 7-1 7B1 9	1.60																																																																															

SUNBEAM CORPORATION
5600 W. ROOSEVELT RD.
CHICAGO 50, ILLINOIS

All prices subject to change without notice

Service Bulletin

7298

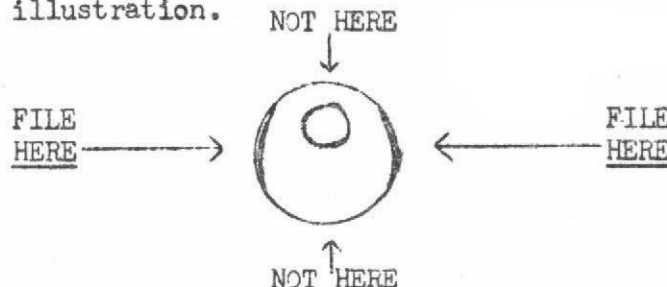
No. 21-6 - MIXMASTER
February 22, 1949

TO CORRECT MODEL 9 MIXMASTER STRAINER THAT BINDS

We have heard of a few cases where the Mixmaster strainer starts to squeak quite loudly and then lifts up from the edge of the glass bowl where it rests.

We have only had a few cases of this, but we find that it has been due to the bakelite eccentric on the underside of the extractor reamer being too snug a fit.

If you run into a case of this nature, just take a file or sand paper and take off about 1/64 of an inch on both sides of the eccentric as shown in the illustration.



This filing should be done only in the spots on the sides of eccentric, as shown above. Do not file off on the thick or thin sides (high and low points) of eccentric. This will eliminate the squeaking and the lifting immediately.

Yours very truly,

SUNBEAM CORPORATION

E. F. Bond

E. F. Bond

EFB/cl

Service Bulletin

7298

#5-1 MIXMASTER

September 15, 1948

NEW ARMATURE - 7B MIXMASTERS

Effective June 26th, all model 7B Mixmasters were assembled with the new style armature, part #C4CA, which replaces the old style armature, part #C89AR. This change was made at approximately Serial #P788,000.

The difference in armatures is in the size of the shaft. The shaft of the new part #C4CA is smaller in diameter than that on the old part #C89AR.

We have discontinued manufacturing the old style armature, part #C89AR. When you have used all of your stock of this part, armature replacements will be made with the new armature. To make this replacement with a new style armature on Models 5, 5B, 5-1, 5B1, 7, and 7B manufactured prior to June 26, 1948 having a lower Serial number than #P788,000, it will be necessary to replace both front and rear bearings (part numbers 13CA and 12CA), which will be included with every #C4CA armature shipped.

Tap out the old bearings, install and "line burnish" the new bearings. For this, we have designed a fixture and tools which will be furnished as soon as possible with instructions as to their use.

This bulletin does not apply to Mixmasters prior to Model 5.

SUNBEAM CORPORATION
5600 Roosevelt Rd.
Chicago 50, Illinois