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Sunbeam Coffeemaster Model C30B & C30C

INSTRUCTIONS FOR SERVICING SUNBEAM AUTOMATIC COFFEE-MASTERS MODEL C30B AND C30C

The following Instructions have been furnished us through the Courtesy of Sunbeam Corporation.

GENERAL:

The Models C30B and C30C Sunbeam Coffeemasters are completely automatic in operation. They are similar to previous models in general appearance and method of operation except for differences in construction of the base, filter assembly and element.

These Coffeemasters differ from other vacuum type coffeemakers in that the water rises to the Upper Bowl at a temperature slightly over 200 degrees, the best temperature for brewing coffee. This delayed rising is achieved by a small opening in the Tube near the Upper Bowl which allows the pressure in the Lower Bowl to equalize itself during the preliminary heating period. When the water has reached the proper temperature and goes up, all but a very small quantity in the bottom leaves the Bowl. This small quantity boils away and the resulting steam agitates the coffee in the Upper Bowl. When all water is out of the Lower Bowl, the heat increases rapidly, the Thermostat automatically shuts off the current, and switches the Control to Low. Then as the temperature goes down, a vacuum is produced in the Lower Bowl and the coffee is forced down through the Filter into the Lower Bowl, where it is kept automatically at a temperature between 165 and 185 degrees by the low heat setting of the Thermostat.

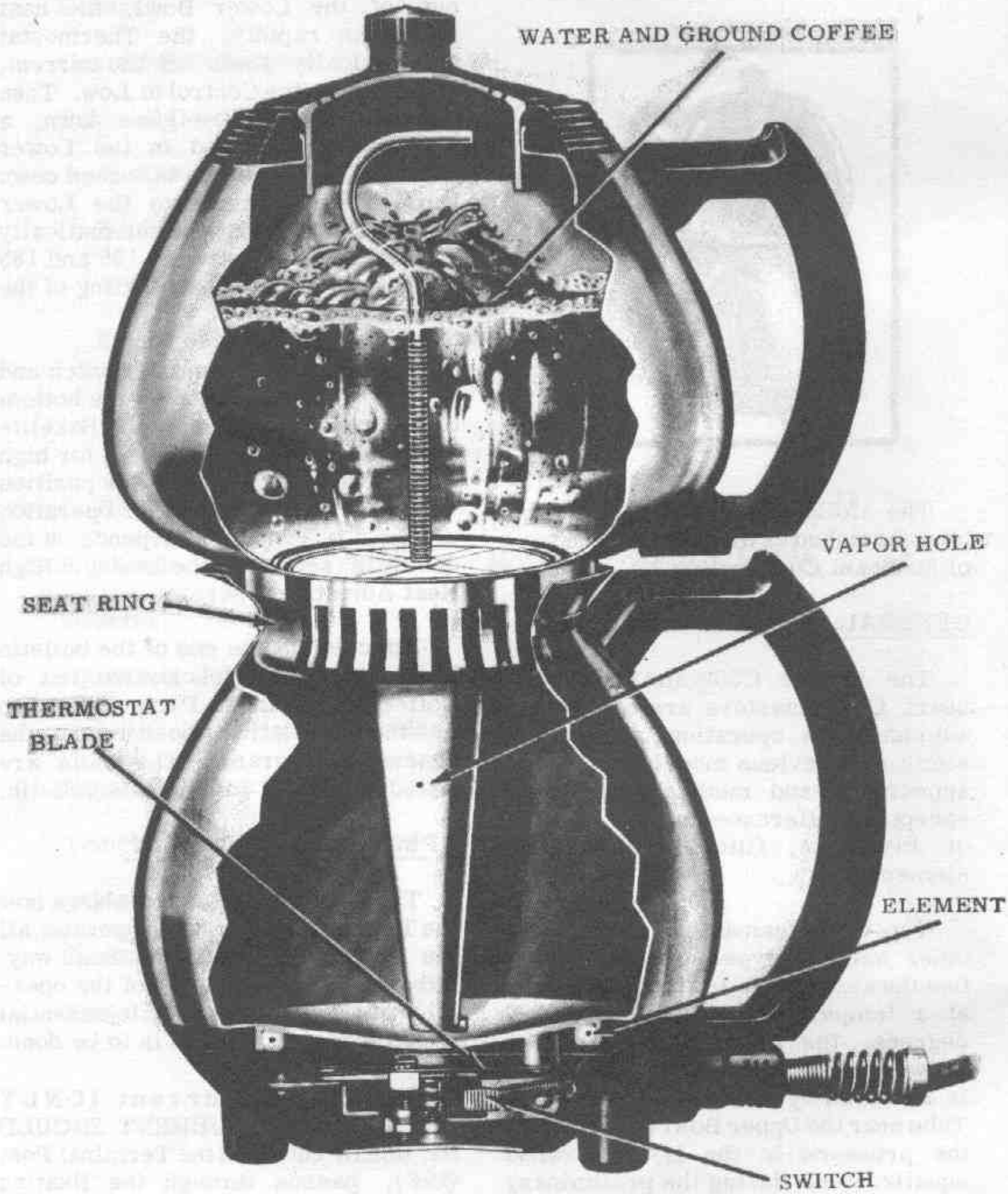
The Heating Element, Switch and Thermostat are fitted on the bottom of the Lower Bowl, inside the Bakelite Base. The Thermostat is set for high or low heat according to the position of the Switch. The proper operation of the Coffeemaster depends on the accurate setting of the Low and High Heat Adjustment Screws.

Attached at the end of the bulletin is a complete descriptive list of Coffeemaster parts. Parts are shown in their relative position on the assembly diagram. The tools are listed on the last page of this bulletin.

OPERATING PRINCIPLES:

This schematic diagram shows how the Thermostat and Switch operate; all the models operate in the same way. A thorough understanding of the operation of the Coffeemaster is essential if satisfactory service is to be done.

The electric current (ONLY ALTERNATING CURRENT SHOULD BE USED) enters at the Terminal Post (19E), passes through the Heating Element into Low Heat Contact Spring through silver contact points into the Terminal Contact Spring and back to Terminal Post. This circuit is exactly


WATER AND GROUND COFFEE
VAPOR HOLE
SEAT RING
THERMOSTAT BLADE
ELEMENT
SWITCH

the same on LOW OR HIGH heat setting.

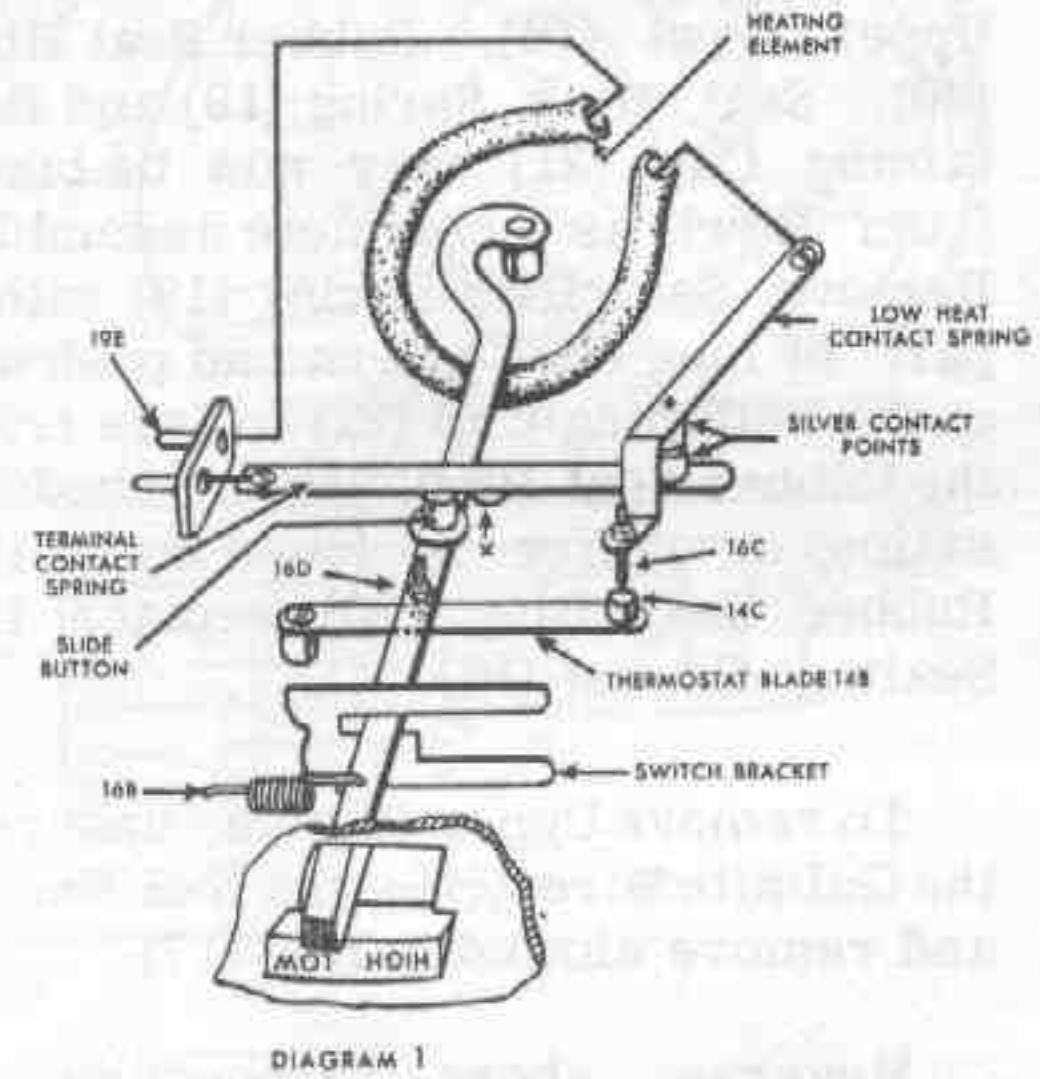


DIAGRAM 1

When Switch is set at LOW as shown in Diagram 1, and the current is turned on, the Thermostat Blade (14B) is heated and deflects until it moves Low Heat Adjustment Screw (16C) with Contact Spring separating the Silver Contact Points. The contacts remain open until the loss of heat straightens the Thermostat, closes points and starts another cycle. If the setting of Screw (16C) is correct, it will keep the coffee in the Lower Bowl hot, but not hot enough to rise to the Upper Bowl. For making coffee, the Switch is set in the HIGH position. The lever will go down into lower step in Switch Bracket, bringing High-Heat Adjustment Screw (16D) closer to Thermostat (14B). At the same time the Slide Button will come under the projection marked X on the diagram, pushing both the Springs and the Adjustment Screw (16C) away from Thermostat. When the current is on, the temperature rises until the Thermostat is deflected enough to raise Adjustment Screw (16D) so that the Switch Lever is forced out of the lower step in Switch Bracket and Spring (16B) pulls it back to LOW position. When this happens, the Screw (16C) is immediately held by the Thermostat and the circuit remains open until enough heat is lost to permit closing at the low heat setting as described above.

RULES OF GOOD REPAIR PRACTICES:

The success of the repair depends upon the Repairman's ability in following the rules of good repair practices. These rules can be summed up as follows:

1. Read the Service Bulletin thoroughly.

2. Know what you are looking for. Never guess. Always investigate the source of trouble. Ask, if you do not know.

3. Determine troubles by the process of elimination.

4. Every part, no matter how small, has a job to perform. Do not overlook the smallest detail.

5. Use the proper tool. Keep tools in efficient working order.

6. Carefully handle smooth, plated or bakelite parts to prevent damaging or scratching.

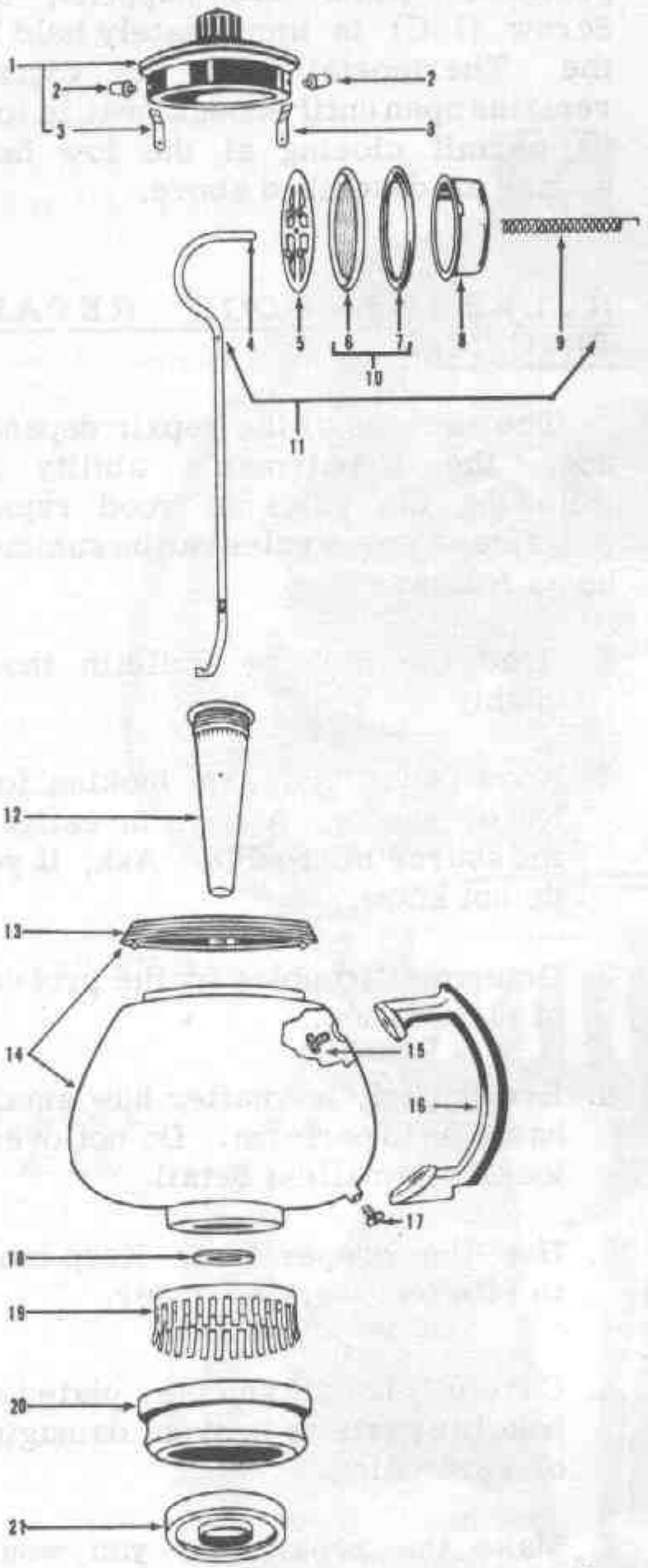
7. Make the repair like you would want it, if you were the customer.

A. Disassembly:

1. Upper Bowl

First remove the Cover Assembly (1) from the Coffeemaster, inspect Cover Catch Buttons (2). Buttons may be replaced by drawing the Cover

Upper Bowl



Springs (3) inward. Remove Filter Assembly (11). Lift the end of the Filter Spring (9) out of the drilled hole in the Filter Rod (4). This releases the Spring, Dome (8), the Filter Screen (6), the Filter Frame (5), and Rubber Ring (7), so that they can be taken off the Filter Rod. Inspect Bakelite Rim (13). If cracked or broken replace with a new one. See Section D-10. Remove the Tube Assembly (12) by holding bowl firmly and turning tube clockwise into the Upper Bowl (14). Rubber Seat Ring (20), Seat Ring Spring (19) and Retaining Cup (21) may now be taken from Bowl as a complete assembly. Remove Seat Ring Spring (19) with a pair of long nose pliers and push out on the Retaining Cup (21) to free from the Rubber Seat Ring. If any condensation or coffee is found under the Rubber Seat Ring (20) replace the Sealing Gasket (18).

To remove Upper Handle, unscrew the Gulmite Screw (15) with tool No. 1, and remove slotted Screw (17).

Reverse above procedure to reassemble.

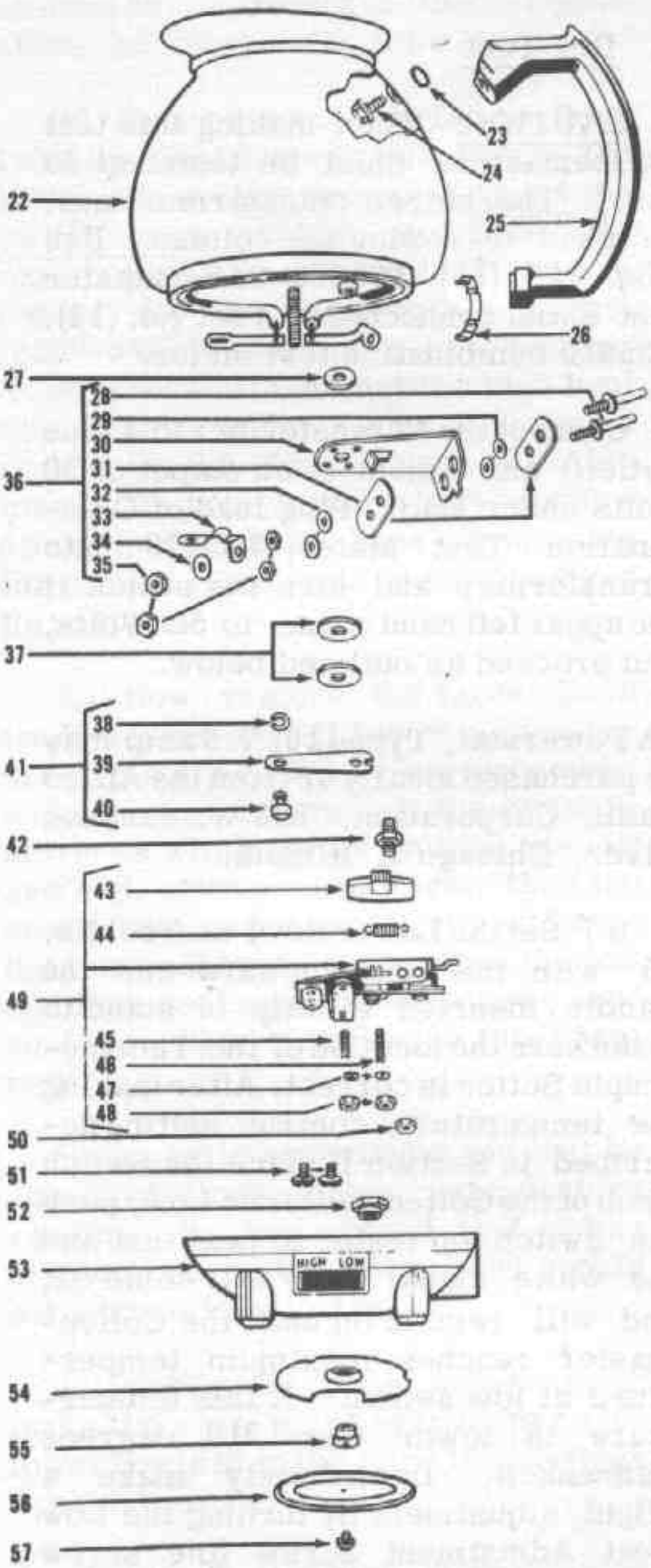
2. Lower Bowl

(a) Place Lower Bowl on Tool No. 2. Remove Name Plate Screw (57), and Name Plate (56). Remove Base Clamp Nut (55) with Tool No. 3, and lift off Base Clamp Plate (54), freeing Base Assembly (53) from Lower Bowl.

(b) The Switch Assembly (49) can be separated from the Lower Bowl by removing Switch Fastening Nut (50), the Switch Shoulder Nut (52) and Terminal Screws (51). To disassemble Switch Assembly, loosen Lock Nuts (48), then turn High Heat Adjustment Screw (46) and Low Heat Adjustment Screw (45) counter clockwise, until free of Switch Assembly, with Lock Nut (48) and Lock Washer (47). Then remove the Switch Knob (43) from Switch Lever.

(c) Remove Thermostat Stud (42) separating the Thermostat Assembly (41) from bottom of Lower Bowl, then remove Insulator Retainer Washer (38), freeing Porcelain Insulator (40).

Lower Bowl



Remove Spacer Washers (37) and Terminal Post Bracket Assembly (36).

To replace Terminal Posts (28) remove outer Nuts (35) freeing Washer (34), and Terminal Strip (33). Unscrew inner Nuts (35) and remove Washers (32), Insulators (31) and (29) freeing Terminal Posts (28).

The Handle (25) can be separated from Lower Bowl by removing Handle Screw (24) with 7/16" socket, or offset Box Wrench. Check Washer (23) and replace if needed.

(d) The heating element of the C30B and C30C Coffeemasters cannot be replaced. A new Lower Bowl must be fitted if this heating element is dead.

Reverse above procedure to reassemble.

NOTE: When replacing Thermostat Blade (41) make certain to tighten it down hard with Thermostat Stud (42).

B. Temperature Control Settings (Room Temperature):

1. Low Temperature Control

(a) Have Coffeemaster at ordinary room temperature. It is important that heat should not remain in the internal parts from previous use or testing. Place Lower Bowl on Tool No. 16 or upside down on a pad or cloth, so that it will not be scratched. Arrange Coffeemaster with Handle directly in front of service man. Remove Name Plate Screw (57) and Name Plate (56). Connect a 2-watt neon glow lamp in series with the Coffeemaster, so that the element will not heat while control parts are being set.

(b) Set Switch Lever on Low position, and place combination wrench and screwdriver Tool No. 12 in position on Low Heat Adjustment Screw (45). Loosen Lock Nut (48) two turns by turning dial attached to the wrench in a counter clockwise direction (to

the left) while holding screwdriver stationary. While holding nut (48) stationary turn screwdriver in clockwise direction (to the right) until light goes out.

Caution: When the point where the light just goes out is found, turn the screwdriver in a counter clockwise direction about 1-1/4 turns. Be careful to rest wrench and screwdriver very lightly on the Screw (do not press down) or the heat adjustment will not be within the specified range. Then hold screw stationary and turn the Nut in a clockwise direction until it is tight. Make certain this Nut is tight otherwise it will loosen and allow switch to go out of adjustment. When using Tool No. 14, rest the side of your hand on the base and use the thumb and index fingers as a guide for the tool. Do not apply pressure on the tool. Even a little pressure on the tool causes an erratic setting.

2. High Temperature Control

After making Low Temperature setting, set the Switch Lever on High position. Place combination wrench and screwdriver Tool No. 12 in position on the High Heat Set Screw (46) and loosen Nut (48) by turning dial of the wrench counter clockwise (to the left). While holding the screwdriver stationary, back the Nut (48) off about two turns. Now, while holding nut stationary turn screwdriver in a clockwise direction until Switch Lever snaps to Low position. Be careful to set the wrench or screwdriver very lightly on the screw. Do not press down after the switch has snapped to "Low". Turn the Screw (46) counter clockwise 1-5/8 turns. Then holding the screw stationary turn the Nut in a clockwise direction until it is tight. Now check temperature settings. Check heat temperature control settings.

C. Heat Setting Test:

1. Dry Test

CAUTION: When making this test Coffeemasters must be tested at 50 Volts. Therefore a transformer must be used to reduce the voltage. Use Tool No. (15) T35220 Coffeemaster test stand connected to Tool No. (14), T35219 combination test meter.

Connect the *Transformer to a line outlet, and adjust to an output of 50 Volts under load. Plug lead of Combination Test Meter, T35219 into Transformer and turn the switch at the upper left hand corner to 50 Volts, and proceed as outlined below.

*A Powerstat, Type 116, 7.5 amp may be purchased locally or from the Allied Radio Corporation, 833 W. Jackson Blvd., Chicago 7, Illinois.

(a) Set the Lower Bowl on Tool No. 15 with the Base upward and the Handle inserted in clip of stand to make sure the location of the Thermocouple Button is correct. After making the temperature control setting described in Section B place the Switch Knob of the Coffeemaster on Low, push the Switch on tester to heat test and the white signal lamp will come on, and will remain on until the Coffeemaster reaches maximum temperature at low setting. If this temperature is lower than 210 degrees Fahrenheit, immediately make a slight adjustment by turning the Low Heat Adjustment Screw (the screw opposite the word High shown on the base) counter clockwise to increase temperature, or lengthen the time, so that the signal lamp will go off within specified temperature range (210-220 F), (for the low setting). If the Signal Lamp does not go off, then make another slight adjustment by

turning the low heat adjustment screw clockwise to decrease the temperature, or shorten the time.

(b) Do not remove the Lower Bowl from the Heat tester after making the low heat test, but immediately set the switch knob on high and follow the exact procedures outlined above, except for the temperature range. (320°-340°F.) for high heat setting. To correct setting adjust the high heat adjustment screw (the adjustment screw in the Switch Lever). Also mark both your low and high temperature reading on the base clamp plate for comparison with the second and third test.

(c) Now remove the Lower Bowl from tester and fill with cold water to completely cool it before proceding with the second test. If the temperature is within range on both the low and high setting on this test, then the heat settings are correct; if not, make the necessary adjustment on the low and high heat adjustment screws and cool lower bowl to make the third heat test.

With a little experience you will be able to obtain the proper temperature readings on the second test. The average test on the lower bowl should not exceed 15 minutes.

IMPORTANT: It is necessary to make two or more heat tests on all lower bowls to make sure the settings are correct.

2. Water Test (High Temperature Control)

(a) Be sure that the lower vessel is thoroughly cool. This means not only the bowl, but the internal switch mechanism.

(b) Place 50 cubic centimeters approximately (1-1/2 ounces) of water in the lower vessel. Set switch to High position and connect to Alternating Current of voltage stamped on Name Plate. Watch the water boil away and as the last drop of water dries up in the form of bubbles at the center of the bottom bowl, note the exact time on a watch.

(c) IT IS VERY IMPORTANT THAT THE STARTING POINT ON THE WATCH BE DETERMINED CORRECTLY, OTHERWISE AN ERRONEOUS STARTING WILL BE OBTAINED. SERVICE MAN MUST BE SURE THAT ALL THE WATER IS DRIED UP IN THE CENTER OF THE BOTTOM.

(d) Then as switch snaps to low position, check the time on the watch again. The time that elapsed between the starting point and the shifting of the switch from high to low should be about 15 to 20 seconds. If the time is not within these limits, readjustment may be made by turning the Set Screw (46) in the required direction (clockwise for decreasing the temperature or shortening the time, and counter clockwise for increasing the temperature or lengthening the time).

Low Temperature Control

(e) Fill Coffeemaster Lower Bowl with water at about 150 degrees Fahrenheit to the lower edge of the Handle Screw (24). Cold water may be used, but the use of warm water will speed up the operation. Set Control Lever on Low then connect Coffeemaster to Alternating Current of the voltage stamped on the Name Plate and leave it connected for about one half hour.

(f) Insert glass thermometer in water and after steady condition is reached a temperature of 165 to 185 degrees Fahrenheit may be expected.

If the temperature is less than 165 degrees or more than 185 degrees, the Low Heat Set Screw (45) should be turned in the required direction(clockwise for decreasing temperature and counter clockwise for increasing temperature) and retested until the correct temperature is obtained.

(g) One complete turn of Screw (45) will give about 60 degrees Fahrenheit temperature change.

D. Adjustment and Parts Replacement:

1. If LOW setting is too high coffee will not return to Lower Bowl or will start to return and then go back up into the Upper Bowl, oscillating back and forth every few minutes. Adjust LOW HEAT as outlined in Section D-1.

2. If LOW setting is too low warming temperatures will be too low. See Section D-1.

3. If HIGH setting is too low the switch may return to the low position before all the water is forced into the Upper Bowl. Adjust HIGH heat as outlined in Section D-2.

4. If HIGH setting is too high this will cause too high an internal temperature in Lower Bowl and Base, and is undesirable. It is shown by the cut-off time being greater than 20 seconds between drying up of water in Lower Bowl and a pyrometer reading above 340°F. before switch returns to LOW. See Section E-2 and D-2.

5. Coffeemaster boils over. It may be due to a vacuum leak around the Rubber Seat Ring, leak around the Screw holding the Handle in position, very HIGH temperature setting, a hole in the Filter, or fitting the Filter incorrectly. Check the seam opening of the tube assembly. When held to light and looking into the tube light should barely be visible. If the tube is split it will cause vigorous boiling.

6. Bent Rim on Lower Bowl. Dents in the Bowls do not usually affect the Coffeemaster, but the top rim of the Lower Bowl may be bent "out of round" by rough handling so that a perfect seal cannot be made by Rubber Seat Ring. This results in delayed rising of water from Lower Bowl, escape of steam around the Seat Ring, and often boiling over. This condition can be identified by irregular marking on Rubber Seat Ring resulting from unequal pressure against it.

Correct the shape of Lower Bowl rim with Tool No. 8. Place Lower Bowl in Tool No. 7 after removing the Base Assembly (53). Insert the tapered plug end of Tool No. 8 inside Bowl rim and tap the end of the tool handle several times with a Leather Mallet until the rim opening is found to be round. Test shape of rim with tool itself.

7. Coffee Flavor: Because the Sunbeam Automatic Coffeemaster brews coffee at the correct temperature and because its interior is chromium plated, the coffee is pure coffee flavored, full bodied, clear and mellow. No part of the Coffeemaster which comes into contact with the coffee can impart either taste or odor. However, if the user should overlook or neglect regular cleaning and care as explained in the instruction booklet and on instruction card furnished with each new Coffeemaster when sold, coffee oils may stain inside of Bowls or the Filter and these stains may become rancid and affect the flavor of the coffee (see copies of instructions attached to this bulletin).

If Coffeemaster user reports

unusual taste, examine condition of Bowls and Filter. If a deposit of coffee stains on Bowl surfaces or Filter is found, call user's attention to instructions, especially those on regular boiling out with baking soda. Give user an extra copy of instruction booklet and instruction card. Abrasives or scouring powder must not be used to clean inside Bowls. Badly stained or discolored Bowls may be cleaned with washing sodas or softeners such as "Calgonite", "Help", "Calgon", "Oakite", "Sal-Soda", etc., but cleaners containing acids must not be used. Owners may wish to employ the services of the repairman for thorough cleaning as a part of a repair, but in attempting to do this work it should be kept in mind that a thick black coating of coffee oils left inside the Bowl for a long time may eventually break down the plating and while cleaning the plating may rub off.

Since the Coffeemaster is very efficient in operation, some users who have previously used other coffee-making methods put in too much coffee and find resulting coffee too strong.

Examine Rubber Seat Ring. If it appears in bad condition, replace it. This part will not cause taste in coffee, but if it is not in good condition, it might cause unwanted odor. If a water deposit is found between the Seat Ring and Upper Bowl, examine the Sealing Gasket (18) and replace if in bad condition. Check contour of Bowl at tube opening. If the Bowl is dented, straighten before replacing gasket.

8. Base Odor. New Bakelite parts in the Base of the Lower Bowl may give off a slight odor when these parts heat up the first few times the new Coffeemaster is used. The odor may be noticed while pouring from a new Bowl, but the condition is only temporary and soon disappears and neither taste nor odor can actually get into the coffee from these new parts.

9. Coffee remains in the Upper Bowl.

In cases where the customer complains that the coffee will not come down, and the trouble can be specifically traced to a water condition or to poorly ground coffee, which causes clogging of the filter, then we suggest you check as to whether the customer is using a 12-5153 Filter. This new filter was designed primarily to correct this complaint. Therefore if the customer does not already own one of these filters, recommend that they buy one. The Stainless Steel Filter Dome Key No. 8 should always be used with the 12-5153 Filter and especially in areas where a water problem does exist. It is advisable to recommend regular water that has not been softened by a domestic water softener, for making coffee in a Coffeemaster. Also check neck opening with Tool No. 13. If this tool fits into the neck of the Lower Bowl, the neck is oversized and should be reduced using Tool No. 14. The pouring spout may be bent causing a vacuum leak through the gasket.

10. Rim Broken. Rim may be replaced using Tool No's. 4 and 5. Special tools are listed at the end of this bulletin. The Rim (13) is held in place with two rivets cast in the Bakelite Rim.

To remove the riveted Rim without damaging hole in Bowl, hold Bowl in hand and strike top of Rim a sharp blow with the edge of a file directly over each rivet. After the Bakelite has been broken away, the rivet can be pushed downward through the hole.

Fit Riveting Clamp Tool No's. 4 and 5 on top of Bowl with end of rivet in

in cup of clamp, and with the jaw of the clamp bearing against the Bakelite Rim, then turn screw until rivet is tight and Rim is held solidly in place.

11. Bent Upper and Lower Bowls Dropping is the usual cause of bent or dented bowl. The Factory or Authorized Service Stations can remove dents if damage is not too severe. Dents in the Bowls do not usually affect the operation of Coffeemaster, but the top rim of the Lower Serving Bowl may be bent "out of round" by rough handling so that a perfect seal cannot be made by Rubber Seat Ring.

To remove dents in either the Upper or Lower Bowls use Tool No. 9 with either Tool No. 10 or 11, depending on the Bowl to be straightened. Use Tool No. 9 with Tool No. 10 for the Lower Bowl or with Tool No. 11 for Upper Bowl. Place either Shoe (Tool No. 10 or No. 11) into Base Bracket (Tool No. 9). Now place dent of Bowl to be straightened on the respective Shoe and while holding tightly to the Shoe, hit the dented spot with a Rubber Mallet until straightened. Do not use any other type of mallets because they will scratch the Bowl.

12. Switch Assembly Defective. To replace Switch Assembly, first be sure that Thermostat Blade Assembly is screwed down tightly in place to avoid poor heat transfer from mounting post to Thermostat. To allow for proper temperature range be sure there is clearance between the thermostat blade and the switch bracket. Next, place switch assembly in position over center post and Thermostat Stud, and tighten down with Switch Shoulder Nut and Switch Fasening Nut. Terminal Contact Spring (Diagram I) should now be adjusted at its mounting Bracket so that it just touches on top of the Slide Button. If Spring is up too high, leaving a space between Slide Button and Spring, bend the Spring Mounting Bracket down, and if spring presses downward Mounting Bracket should be bent upward. In making this adjustment it will be necessary to hold Low Heat Contact Spring up so that it does not touch Terminal Contact Spring and to hold the Switch Base down firmly on Lower Bowl. Since both springs are mounted on Switch Assembly, these adjustments can be made most conveniently before replacing Switch.

Before replacing the Bakelite Base, Switch Assembly should have the Switch Knob lever adjusted to position. The Knob should clear in both LOW and HIGH positions on the Base and also have clearance on both sides of the switch opening. If it does not, carefully bend the Switch Lever Guide Bracket up or down as required. This bracket is hardened and should be adjusted carefully so as not to crack it. Bending this bracket will make it necessary to reset heat control.

13. Coffeemaster will not heat. Check customer's cord for an open circuit and replace if defective. Inspect switch, and check continuity of heating element. If Heating Element is open replace the Lower Bowl.

14. Heating Element Bus Bar Broken. Cut the defective bus bar away using a side cutting pliers. Be careful not to cut or loosen the element terminal when cutting away the defective part. New bus bar, Key Nos. 60, 61, can then be silver soldered onto the terminal of the element.

CAUTION: When silver soldering the bus bar to the end of the heating element, be extremely careful to prevent flux from contaminating the

insulating material in the element tube. If this happens it may cause a short circuit or high leakage between the terminal and the metal casing of the heating element.

SPECIAL MODIFICATIONS

1. The clearance between the upper bowl tube and the bottom of the vessel is critical on the Sunbeam Coffeemaster. Too much clearance will create violent agitation and boiling over in the upper bowl. Too little clearance will cause the switch to shift from high to low too soon, thus cutting down the brewing time.

In order to obtain uniform clearance in the different model Coffeemasters, we vary the tube length slightly. The tube on the C-30B and C-30C Coffeemasters is 4.468 inches long. Since it is difficult to determine whether the tube length is correct, by eye, we now have a special tool available for measuring the length. This Tool, No. T-41695, is shown in the special tool list as Tool No. 17. When using this tool to measure a C-30B or C-30C Coffeemaster upper bowl tube, insert it into the tube from the top. The end of the upper bowl tube should be flush with the end of the tool. If it is not the tube should be replaced with one of correct length.

E. The Special Tools Referred To In This Bulletin Are:

Reference Number	Tool Number	Description
Tool 1	T19552-1	Gulmite Wrench No. 10 - 90° Bend Handle Fastening Screw (67AH) Key 15.
Tool 2	T29288	Assembly fixture felt lined for Lower Bowl Key 8.
Tool 3	T19553	Wrench for Base Clamp Plate Nut (12-1627) Key 21.
Tool 4	T29726	Clamp Body for T29726-2.
Tool 5	T29726-2	Jaws for rivets on Rim (C96BT) Key 13 of Upper Bowl.
Tool 6	T29725	Template drilling rivets holes Upper Bowl for Rim (C96BT)
Tool 7	T30656	Stand to hold Lower Bowl while rounding the Rim.
Tool 8	T20084-1	Sizing Tool for reshaping Lower Bowl Rim.
Tool 9	T30071A	Base Bracket for T30071B, T30071C, T37804 and T37804A.

Tool 10	T30071B	Shoe to remove dents from C30B Lower Bowl. Use with T30071A.
Tool 10	T37804	Shoe to remove dents from C30C Lower Bowl. Use with T30071A.
Tool 11	T37804A	Shoe to remove dents from C30C Upper Bowl. Use with T30071A.
Tool 11	T30071C	Shoe to remove dents from C30B Upper Bowl. Use with T30071A.
Tool 12	T19524	Combination wrench and screwdriver for Low and High Heat Adjustment Screw.
Tool 13	T34798	No go gauge used with T35088 - to check the Lower Bowl Neck opening.
Tool 14	T35088	Neck Reducing Tool.
Tool 15	T35219	Combination test meter - see bulletin 85-4, General.
Tool 16	T35220	Coffeemaster Test Stand - to be used with T35219.
Tool 17	T41695	Length Gauge for tubes

F. The Standard Tools Recommended Are:

Rawhide Mallet - Diameter 2", Length 3-1/2", Weight 10 oz.
Rubber Mallet - Diameter 2-1/8", Length 3"
Cutting Pliers - Length 6"
Long Nose Pliers - Length 6"
Yankee Ratchet Screwdriver - No. 31A for 5/16" Shank
Yankee Ratchet Screwdriver - No. 135A for 7/32" Shank
Screwdriver - Length 3", Blade Width 3/16"
Quick Wedge Screwdriver - Length 6", Blade Width 5/16"
Socket for Yankee Screwdriver - Hex Socket 3/8", Shank 5/16" (Key No. 17)
Spintite Wrench - Hex Socket 9/32" (Key No. 15)
Spintite Wrench - Hex Socket 1/4" (Key No. 17A)
Ratchet Driver - Williams NM51
Hexagon Socket - 7/16" for Ratchet Driver (Key No. 24)

Special Tools order from the factory - Sunbeam Corporation, 5600 W. Roosevelt Rd., Chicago 50, Illinois. Standard Tools purchase locally.

G. Parts List:

SUNBEAM COFFEEMASTER
MODEL C30B AND C30C

IMPORTANT NOTICE: Order parts by STOCK NUMBER in second column below. That will help us supply the correct part and give you quick accurate service.

Key No.	Stock No.	Description	Models		Retail Price
1	12-5026	Cover Assembly includes Key Nos. 2 and 3	C30B	C30C	1.05
2	12-1714	Nylon Cover Button (2 Used)(60CP)	C30B	C30C	.12 ea.
3	12-1715	Button Spring (2 Used)(61CP)	C30B	C30C	.12 ea.
4	12-5020	Filter Rod only	C30B	C30C	.50
5	12-3055	Filter Frame	C30B	C30C	.45
6	12-3057	Filter Screen Assembly (not available)substitute 12-6476	C30B	C30C	
7	12-3058	Rubber Filter Ring	C30B	C30C	.12
8	12-5019	Filter Dome	C30B	C30C	.40
9	12-5023	Filter Rod Spring	C30B	C30C	.05
10	12-6476	Filter Screen and Rubber Ring includes Key Nos. 5, 6 and 7	C30B	C30C	1.75
11	12-5153	Filter Rod Assembly includes Key Nos. 4 thru 9	C30B	C30C	2.65
12	12-3775	Tube Assembly	C30B	C30C	1.95
13	12-1635	Upper Bowl Rim (96BT)	C30B	C30C	.70
14	12-5780	Upper Bowl Assembly includes Key No. 13 (C12CC)	C30B		10.75
14	12-5780	Upper Bowl Assembly includes Key No. 13		C30C	10.75
15	12-1625	Gulmite Screw for Upper Bowl Handle (67AH-1)	C30B	C30C	.12
16	12-1637	Upper Bowl Handle (C53BT)	C30B	C30C	1.05
17	12-1639	Slotted Screw for Upper Bowl(59BT)	C30B	C30C	.08
18	12-3782	Sealing Gasket	C30B	C30C	.06
19	12-1642	Seat Ring Spring (15BZ)	C30B	C30C	.40
20	12-1641	Rubber Seat Ring (14BZ)	C30B	C30C	1.05
21	12-1643	Retainer Cup (15CC)	C30B	C30C	.70
22	12-5776	Lower Bowl, Heating Element, and Bus Bar Assembly 110-120 Volts AC	C30B		15.40
22	12-5781	Lower Bowl, Heating Element, and Bus Bar Assembly 110-120 Volts AC		C30C	15.40
23	12-2467	Rubber Handle Washer	C30B	C30C	.06
24	12-2466	Lower Bowl Handle Screw	C30B	C30C	.15
25	12-2487	Lower Bowl Handle	C30B	C30C	1.10
26	12-2468	Base Support	C30B	C30C	.20
27	12-4348	Center Stud Seal Washer	C30B	C30C	.06

28	12-1609	Terminal Stud (2 Used)	C30B	C30C	.07 ea.
29	12-1611	Mica Insulation Washer (2 Used)	C30B	C30C	.04 ea.
30	12-2453	Terminal Bracket only	C30B		.30
30	12-4347	Terminal Bracket only		C30C	.30
31	12-1516	Mica Insulator (2 Used)(47CG)	C30B	C30C	.08 ea.
32	12-1530	Terminal Stud Washer (2 Used)(49CG)	C30B	C30C	.05 ea.
33	12-1610	Terminal Lead Strip	C30B	C30C	.06
34	12-2325	Terminal Post Washer(86BD)(2 Used)	C30B	C30C	.05 ea.
35	12-1531	Hex Nut (4 Used)(87BD)	C30B	C30C	.05 ea.
36	12-2481	Terminal Stud and Bracket Assembly (Includes Key Nos. 28 thru 35)	C30B		.95
36	12-4392	Terminal Stud and Bracket Assembly (Includes Key Nos. 28 thru 35)		C30C	.95
37	12-2462	Spacer Washer (2 Used)	C30B	C30C	.12 ea.
38	12-1681	Retaining Washer (68BD)	C30B	C30C	.05
39	12-1679	Thermostat Blade only (31AH)	C30B	C30C	.40
40	12-1680	Porcelain Insulator (32AH)	C30B	C30C	.08
41	12-1615	Thermostat Assembly (Includes Key Nos. 38, 39, and 40)(C69AP-1)	C30B	C30C	.75
42	12-1617	Termostat Stud (34AH-1)	C30B	C30C	.25
42	12-1860	Thermostat Stud, oversized(34AH-2)	C30B	C30C	.12
43	12-2465	Switch Knob	C30B	C30C	.20
44	12-1697	Switch Spring (28AH)	C30B	C30C	.12
45	12-1708	Low Heat Adjustment Screw (3 BE)	C30B	C30C	.25
46	12-1690	High Heat Adjustment Screw (2 BE)	C30B	C30C	.25
47	12-1691	Shakeproof Lock Washer (2 Used) (80BD)	C30B	C30C	.05 ea.
48	12-3888	Lock Nut (2 Used)	C30B	C30C	.05 ea.
49	12-5777	Switch Assembly Complete	C30B		3.50
49	12-5782	Switch Assembly Complete		C30C	3.20
50	12-3888	Switch Retaining Nut	C30B	C30C	.05
51	12-1093	Terminal Lead Screws (2 Used)	C30B	C30C	.05 ea.
52	12-1623	Hex Shoulder Nut (35AH-1)	C30B	C30C	.12
53	12-2452	Base	C30B	C30C	1.10
54	12-1628	Base Clamp Plate (8AH)	C30B	C30C	.12
55	12-1627	Base Clamp Plate Nut (7AH-1)	C30B	C30C	.12
56	12-2651	Name Plate 110-120 Volts AC	C30B		.20
56	12-4349	Name Plate 110-120 Volts AC		C30C	.20
57	12-1093	Name Plate Screw (P1727)	C30B	C30C	.05
58	12-2496	Plug (C91AH)	C30B	C30C	.60
59	12-1570	Cord and Plug Assembly (Includes Key No. 58)(G87AH-1)	C30B	C30C	1.25

All prices subject to change without notice.

SUNBEAM CORPORATION
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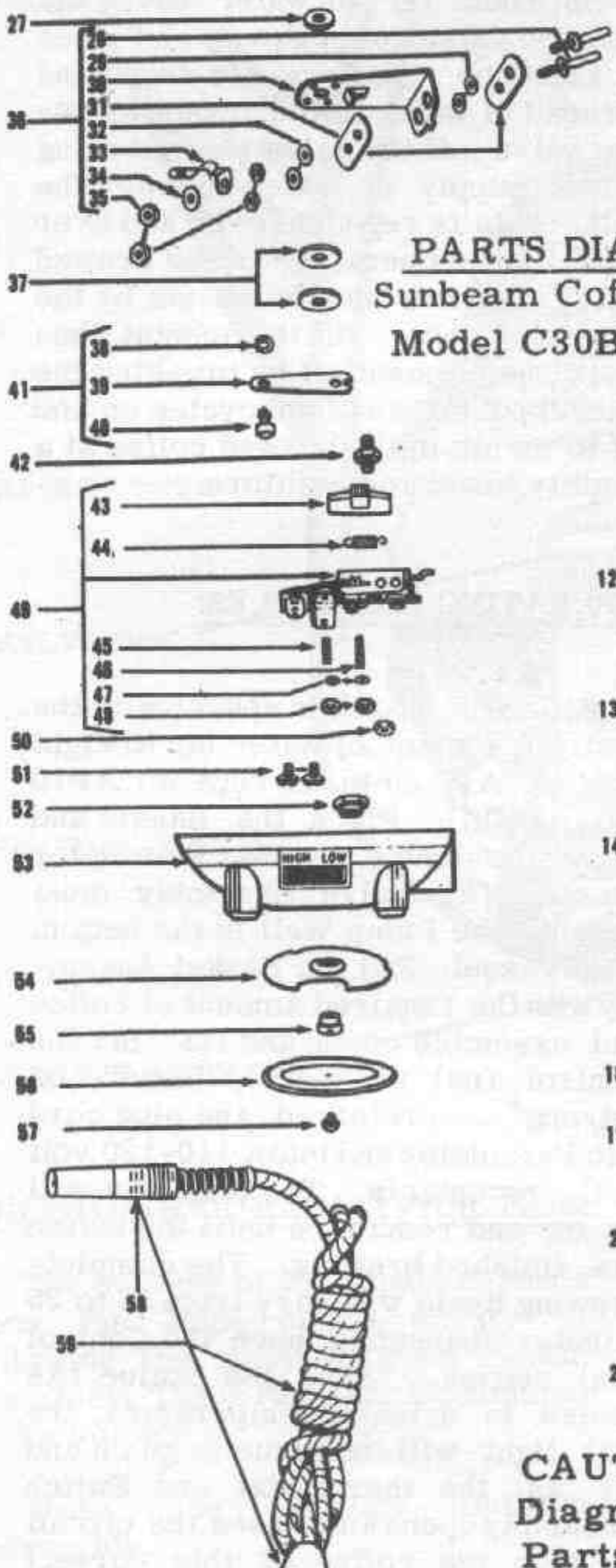
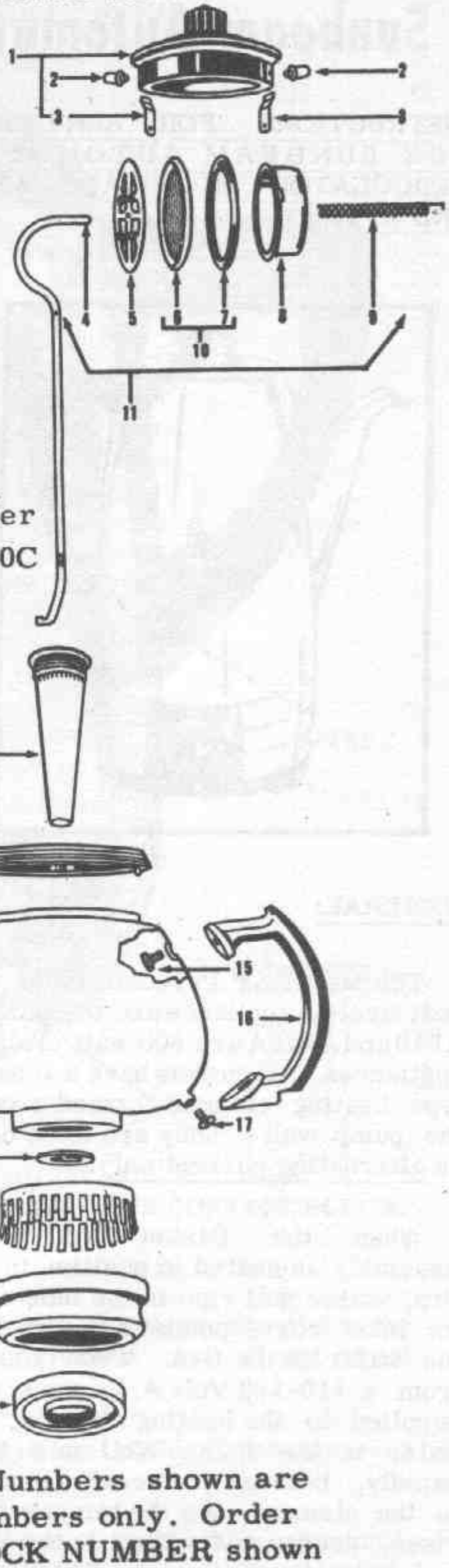


PARTS DIAGRAM

Sunbeam Coffeemaster

Model C30B and C30C



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