

M-5000/5700 Instant Hot Water Maker

Operations Manual for Strahman M-5000/5700 Unit, M-70 Spray Nozzle and Soft Seal Piston Valve

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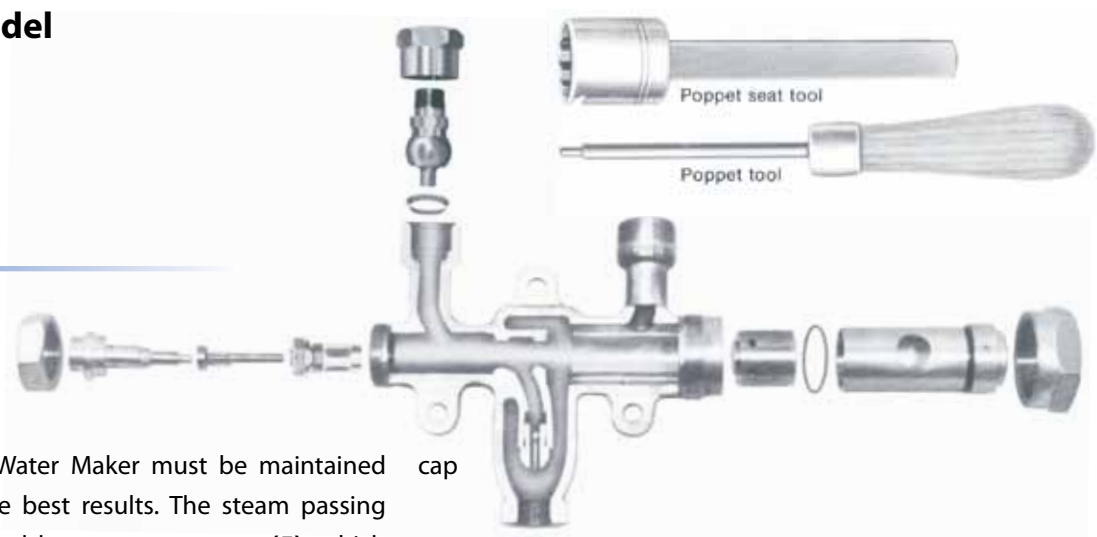
www.strahmanvalves.com



Maintenance of Model

M-5000

Strahman Instant Hot Water Maker



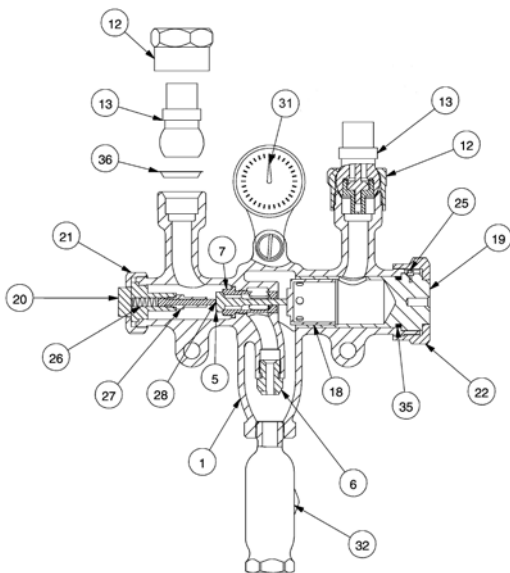
The Strahman Instant Hot Water Maker must be maintained properly in order to get the best results. The steam passing through the unit is controlled by a steam poppet (5), which should be replaced as soon as it becomes worn. This can easily be done by first closing the control valves, then remove the hex nut (21) on the left side of the unit. Remove poppet guide assembly (parts 20, 26, 27 & 28). Poppet can be removed by special tool furnished in M-5000 Service Kit. New Poppet can be replaced. In extremely severe cases, it may be necessary to replace the poppet seat (part 7). This can be done with the Poppet and Guide Assembly removed and by using special poppet seat tool which is also a part of the Service Kit.

Located below the control valves are check valves (13). The check valves should be replaced when worn. This can be done by closing the control valves, backing off the union nuts (12) and freeing the entire unit from the wall by backing out the hex

screws and washers. The check valves then can be removed for replacing. When reinstalling the unit, it is important that the lock washers be replaced in their proper positions as this will assure rigidity of the installation.

Should the water chamber (18) become sluggish and not open the steam poppet, water chamber and housing (19) can be removed for cleaning by removing the large hex nut (22) on the right side of the unit. Clean the chamber and housing with fine steel wool, and replace in the same order as removed.

CAUTION: If the steam poppet is not replaced when worn, steam may leak through the unit, causing a puff of steam at the

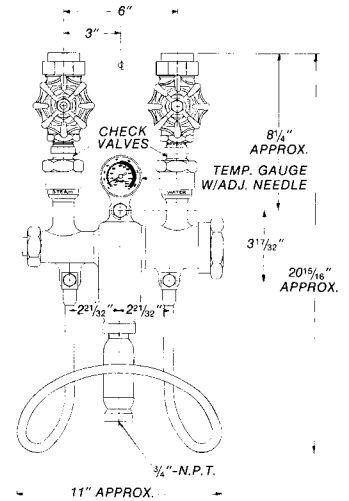
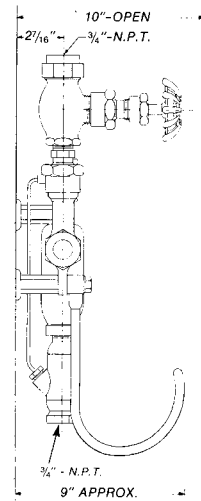
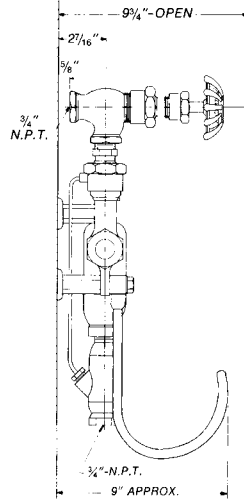
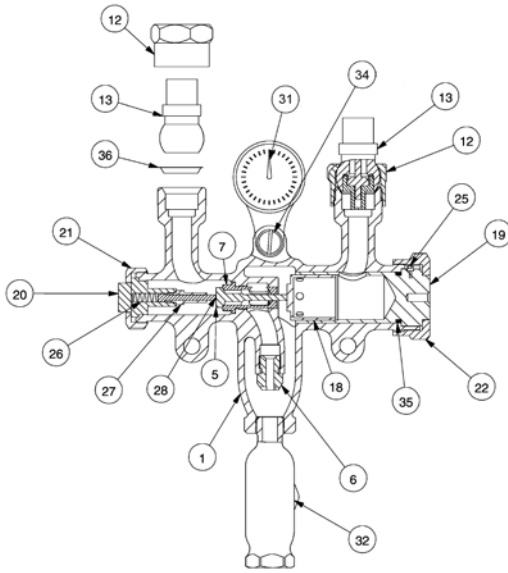


PARTS					
PART NO.	PART	M-5000 MATERIAL	PART NO.	PART	M-5000 MATERIAL
1	BODY (includes parts 6 and 7)	BRONZE	19	WATER CHAMBER HOUSING (includes part 35)	BRASS
2	HOSE RACK CAP SCREW (not shown)	STAINLESS STEEL	20	POPPET GUIDE	BRASS
3	HOSE RACK LOCK WASHER (not shown)	STAINLESS STEEL	21	POPPET GUIDE NUT	BRASS
4	HOSE RACK CONNECTOR (not shown)	BRASS	22	BODY NUT	BRONZE
5	STEAM POPPET (L, M, H)	STAINLESS STEEL	25	SET SCREW	STAINLESS STEEL
6	STEAM JET	STAINLESS STEEL	26	POPPET SPRING	STAINLESS STEEL
7	POPPET SEAT	BRONZE	27	GUIDE EXTENSION	STAINLESS STEEL
8	HOSE RACK (not shown)	STAINLESS STEEL	28	PUSHER	STAINLESS STEEL
10	SPACER (not shown)	STAINLESS STEEL	31**	TEMP GAUGE	CHROME
11	WALL PLATE (not shown)	BRASS	35	"O" SEALING RING FOR WATER CHAMBER HOUSING	E5 15-80-2Q75
12	BALL CHECK UNION NUT	BRASS	36	BALL CHECK GASKET	COPPER, PTFE COATED
13'	BALL CHECK VALVES (includes part 36)	BRASS/STAINLESS STEEL ALUMINUM SILICONE BRONZE			
18	WATER CHAMBER	STAINLESS STEEL			

*Please see insert for M5700 Stainless Steel parts listing.

†Sold as a complete unit.
**Temperature gauge: 40-120°C/100-250°F.

M-5700TG Wall-Mounted Series



Note: Front view shown with Globe Valves.

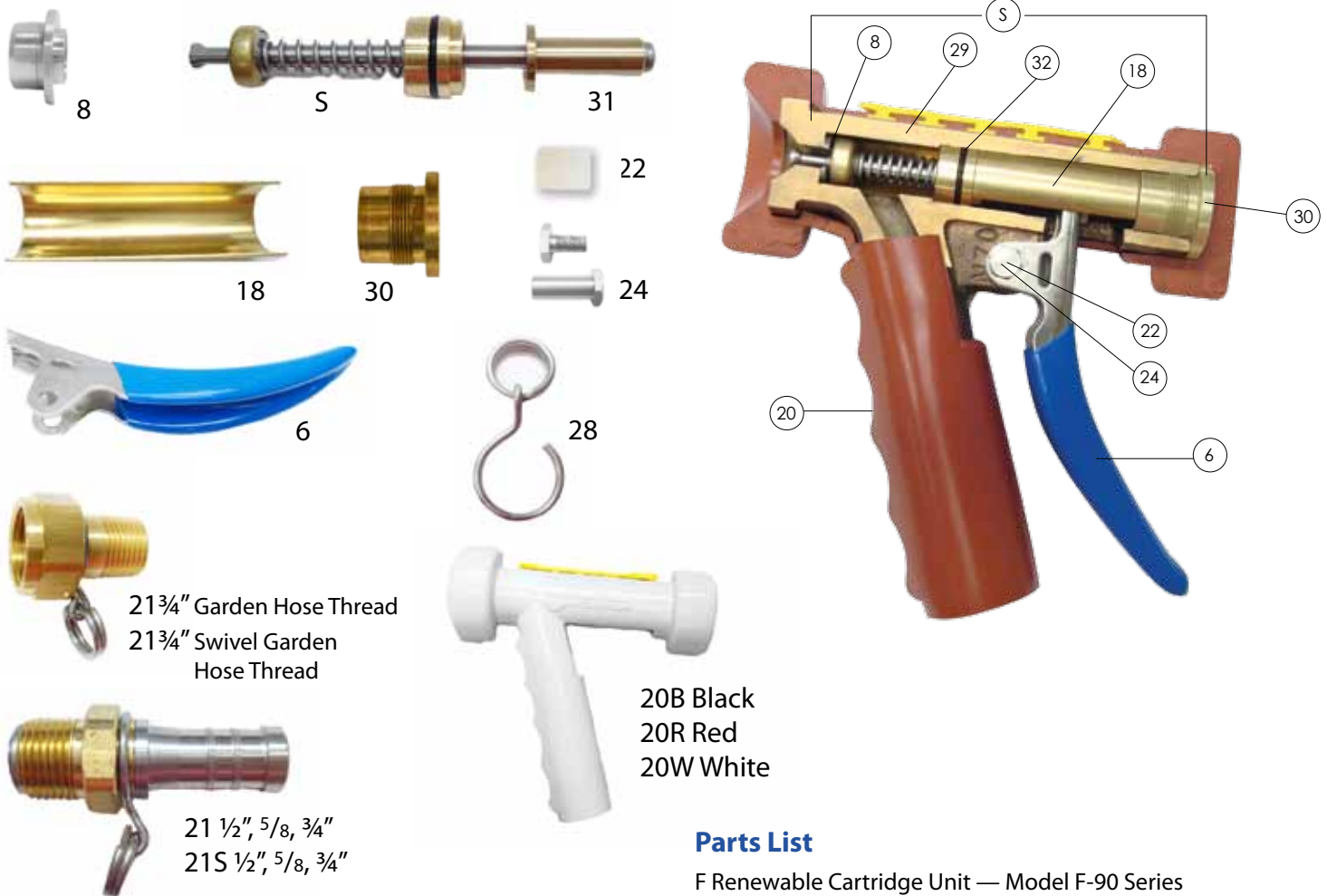
PARTS					
PART NO.	PART	M-5700 MATERIAL	PART NO.	PART	M-5700 MATERIAL
1	BODY (includes parts 6 and 7)	SST 316	19	WATER CHAMBER HOUSING (includes part 35)	SST 304
2	HOSE RACK CAP SCREW (not shown)	SST 304	20	POPPET GUIDE	SST 304
3	HOSE RACK LOCK WASHER (not shown)	SST 410	21	POPPET GUIDE NUT	SST 303
4	HOSE RACK CONNECTOR (not shown)	SST 303	22	BODY NUT	SST 303
5	STEAM POPPET (L, M, H)	SST 303	25	SET SCREW	SST 304
6	STEAM JET	SST 416	26	POPPET SPRING	SST 302
7	POPPET SEAT	SST 304	27	GUIDE EXTENSION	SST 416
8	HOSE RACK (not shown)	SST 302	28	PUSHER	SST 303
10	SPACER (not shown)	SST 416	31**	TEMP GAUGE	PLATED BRASS
11	WALL PLATE (not shown)	SST 304	35	"O" SEALING RING FOR WATER CHAMBER HOUSING	EPMD
12	BALL CHECK UNION NUT	SST 304	36	BALL CHECK GASKET	COPPER, PTFE COATED
13†	BALL CHECK VALVES (includes part 36)	SST 303			
18	WATER CHAMBER	SST 303			

†Sold as a complete unit.

**Temperature gauge: 40-120°C/100-250°F.

Strahman Water-Saver Spray Nozzle

Also available in stainless steel.



Instruction for Servicing

(Caution: Not for use on steam hose)

The entire working parts of the Strahman Water-Saver Spray Nozzle are contained in a single cartridge (F, J, M, S). This cartridge can be removed by:

1. Remove rubber cover (20) by slipping the rubber off the back of nozzle and pulling over front.
2. Remove lever arm screw and nut (24) and remove lever arm (6)
3. Unscrew lock screw (30) and extract the cartridge from back end of nozzle with cage (18).
4. To insert new cartridge, reverse above procedure.
5. Be sure when replacing cage (18) to place cut-away part of cage facing downward, so lever arm (6) can be inserted.
6. Be sure lever arm is placed ahead of stem guide (31) on cartridge unit.
7. To replace cover wipe body with detergent, insert nozzle end first then handle into cover. Use a round ended tool approx. 3/8" in diameter to stretch cover over back. Sharp tools can cut cover.

Parts List

- F Renewable Cartridge Unit — Model F-90 Series
- SF Renewable Cartridge Unit — Model F-90 SS Series
- J Renewable Cartridge Unit — Model S-80 Series
- SJ Renewable Cartridge Unit — Model S-80 SS Series
- M-70 Renewable Cartridge Unit — Model M Series (shown)
- S-70 Renewable Cartridge Unit — Model S Series
- 6. Lever Arm
- 8-S. Stainless Steel Seat
- 18. Cage
- 20B. Renewable Rubber Cover (Black)
- 20R. Renewable Rubber Cover (Red)
- 20W. Renewable Rubber Cover (White)
- 21. Hose Adapter (1/2", 5/8", 3/4") (3/4" Garden Hose Thread)
- 21S. Swivel Hose Adapter (1/2", 5/8", 3/4") (3/4" Garden Hose Thread)
- 22. Lever Arm Bushing
- 24. Lever Arm Screw and Nut
- 28. Lock Rings
- 29. Body
- 30. Lock Screw
- 31. Stem Guide
- 32. Body Sealing O-ring

The Strahman Soft Seal Piston Valve

V-14-U 3/4" Globe (Shown)

V-18 3/4" Angle

Note: Globe (Union Connection) Valve Shown.

Angle (Screwed End) Valve Not Shown.

PARTS	
PART NO.	PART
1	BODY SCREWED ENDS
1	BODY SCREWED ENDS Chrome-Plated
1	BODY UNION TYPE
3	VALVE RING
4	PISTON (includes part 5, included in part 10)
5	SPLITNUT
6	STEM (includes part 7)
7	STEM STOP (set of 6)
8	LANTERN
9	SPRING
BONNET ASSEMBLY	
BONNET ASSEMBLY Chrome-Plated	
10	BONNET Bronze
10	BONNET Chrome-Plated
11	BONNET NUT
11	BONNET NUT Chrome-Plated
12	RETAINING RING (Included in part 10) (set of 6)
13	PACKING RING
14	PACKING GLAND (Included in part 10) (set of 6)
15	PACKING NUT (Included in part 10)
15	PACKING NUT Chrome-plated (Included in part 10)
16	BLACK HANDWHEEL
16	RED HANDWHEEL
17	HANDWHEEL NUT (set of 6)
20	UNION GASKET (set of 6)
21	UNION TAIL PIECE
22	UNION INLET NUT
23	ANGLE RECESSED GASKET

Note: When installing new spring, splitnut no. 5 and piston no. 4 must be disassembled from stem no. 6. Install new spring over stem against bonnet. Reassemble splitnut and piston. Hold spring against bonnet.

3/4" Soft Seal Piston Valve

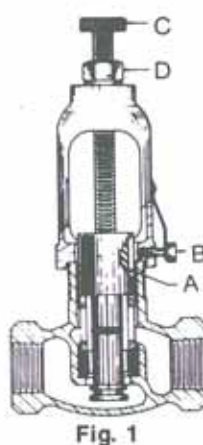
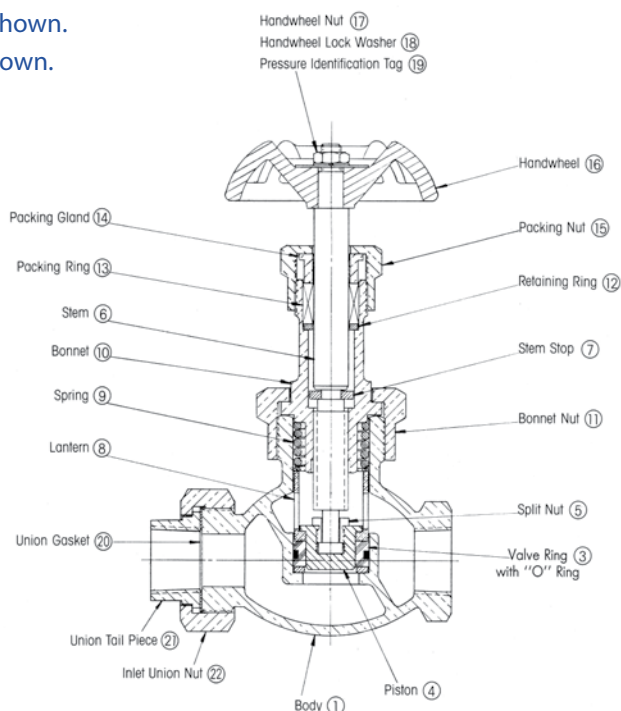


Fig. 1

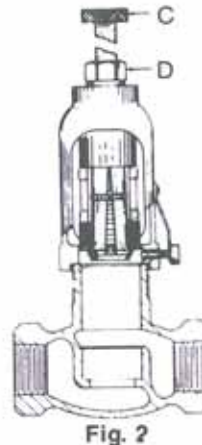


Fig. 2



Fig. 3

Instructions for Use of Tools with Soft Seal Piston Valve

Extracting Valve Ring

- First** Remove bonnet and stem assembly by opening valve to wide open position and removing bonnet nut and working assembly free of body.
- Second** Insert pulling tool into ring pocket making sure that puller housing is located evenly on neck of valve body. Slotted cap 'A' should rest on lantern as shown in Fig. 1. Rotate until pin 'B' can be pressed into slot and hold while knurled nut 'C' counter clockwise until refusal.
- Third** With an adjustable wrench, turn hex nut 'D' in a clockwise direction until internal parts are fully extracted, as shown in Fig. 2.
- Fourth** Spin hex nut all the way back on so that withdrawn parts can be fully extended from puller housing, then turn knurled nut 'C' clockwise which will release parts from puller.

To Insert New Valve Ring

- First** Drop metal base ring into ring pocket in valve body.
- Second** Place valve ring on seating tool as shown in Fig. 3 and drive into valve body as far as it will go keeping sealer tool as straight as possible.
- Third** Drop lantern into body with large I.D. and wider band facing up making sure lantern sits evenly on ring.
- Fourth** Before installing bonnet assembly into body, fully retract stem making sure spring is located between back of piston and bonnet. Install into body. Tighten down bonnet nut until refusal.

Precautions: Make sure ring pocket is free of scale, rust or other obstruction before replacing valve ring. Make sure parts are replaced in same order as removed.