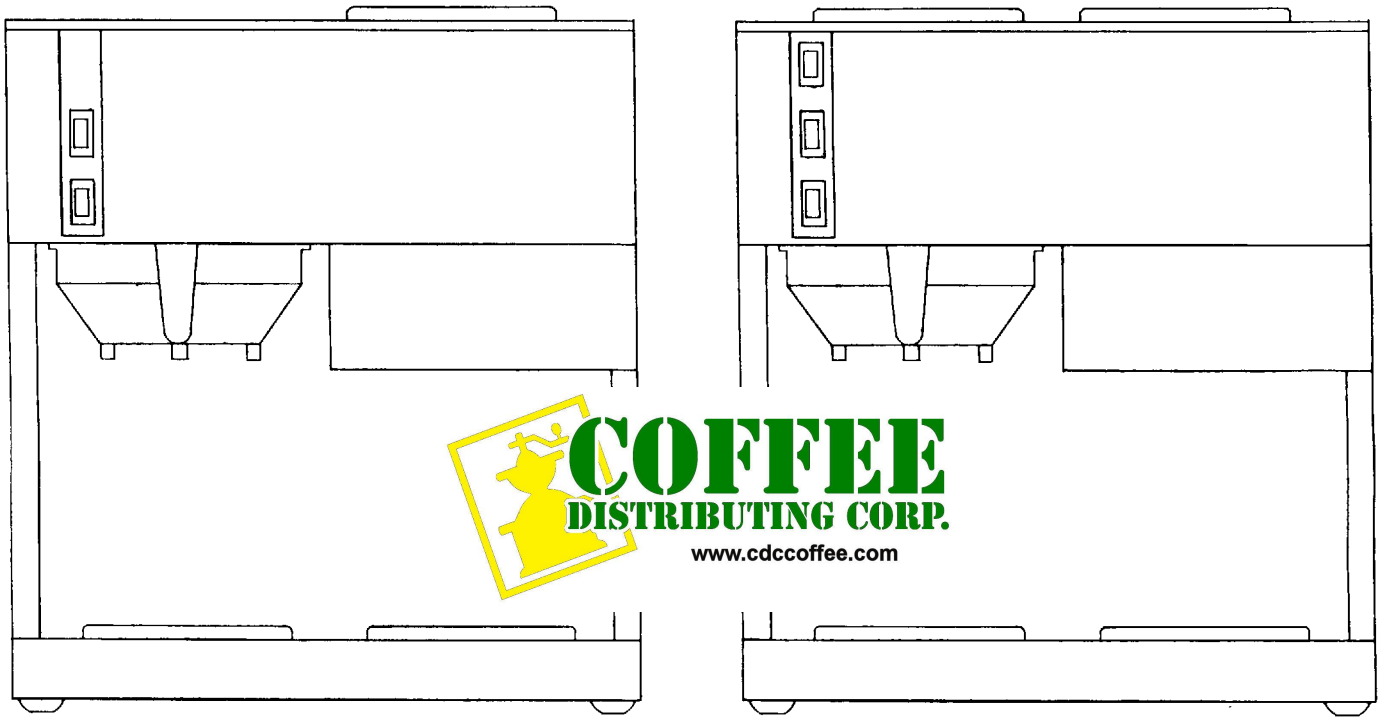


NEWCO *Enterprises, Inc.*

OPERATING & SERVICE MANUAL

Model — RC-2 — 2 warmer pour-over
RD-3 — 3 warmer pour-over



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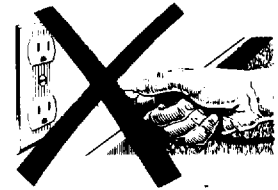
WARNING

DISCARD GLASS DECANTER IF

- **CRACKED**
- **SCRATCHED**
- **BOILED DRY**
- **HEATED WHEN EMPTY**
- **USED ON HIGH FLAME OR OPEN ELECTRIC ELEMENTS.**

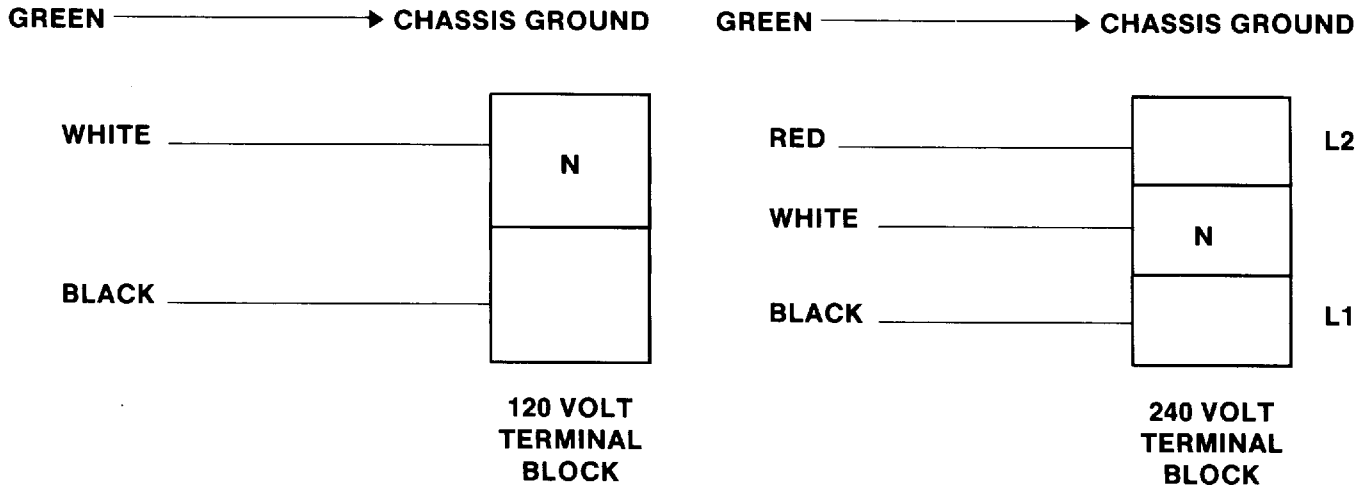
**FAILURE TO DO SO MAY RESULT
IN BODILY INJURY**

CAUTION: Disconnect brewer cord from electrical outlet before removal of cover or replacement of any component.



WARNING: Read and follow installation instructions before plugging or wiring in machine to electrical circuit. Warranty will be void if machine is connected to any voltage other than that specified on serial tag.

ELECTRICIAN'S INSTALLATION INSTRUCTIONS



ELECTRICAL REQUIREMENTS

RC2	120V	1600 Watts	15A
RC2	120V	2000 Watts	20A
RC2	240V	3700 Watts	20A
RD3	120V	1700 Watts	15A
RD3	120V	2100 Watts	20A
RD3	240V	3800 Watts	20A

1. Electrician must provide the outlet, plug to match, and a suitable length of cord or armored cable if not supplied. (Attached power supply cord provided).
2. Power is to be left OFF throughout installation.
3. After service is connected, test voltage on the field wired side with a voltmeter. Voltage should be 120 volts A.C. or 240 volts A.C. as prescribed on the serial tag.

WARNING: Chassis must be properly grounded to prevent possible shock hazard. On cord connected models with grounding lead provided, if an adaptive plug must be used, an electrical ground must be provided. Do not assume a plumbing line will provide such a ground.

INITIAL OPERATION INSTRUCTIONS

1. Place empty decanter under brew basket. Raise dust cover and pour three (3) decanters of water into the pour-in screen. Water should come through brew basket as the third decanter of water drains out of receiving pan.
2. Brewer is shipped with thermostat turned on, (full clockwise position). Plug or wire machine to voltage circuit indicated on serial tag.
3. Allow 10 to 15 minutes for water in tank to heat to brewing temperature. (Additional water may drip from brew basket on initial expansion of water in tank — this will NOT occur thereafter.)
4. After water has reached brewing temperature (thermostat will click off and heating noise will stop). Pour one (1) decanter of water in pour-in screen. More than one (1) decanter of water will flow into decanter below brew basket due to water expansion in the tank. Brewer is now ready to use. Brewers with optional heating lights will give visual signal.

CAUTION: Disconnect brewer cord from electrical outlet before removal of cover or replacement of any component.

OPERATING AND BREWING PROCEDURE

1. Place filter into brew basket. Put the proper amount of coffee into the filter. Slide brew basket into holder.
2. Place empty decanter on left warmer and turn left warmer switch to ON position.
3. Pour decanter of cold water through pour-in screen.
4. Hot water will be delivered through the sprayhead. This distributes the hot water evenly over the coffee bed within the brew basket. The coffee brew will drain from the brew basket into the decanter below. The resultant coffee brew should be crystal clear and have the desired properties attainable through excellent extraction.
5. **TURN OFF WARMER WHEN NOT IN USE.** (Red light indicates warmer is on).
6. To clean brew basket simply remove from holder and dump filter into waste basket. The brewer process, as described above, can now be repeated.

LIMING

To prevent liming problems in tank fittings, remove sprayhead and insert deliming spring (p/n 201152) all the way into the tank. When inserted into tank properly, no more than ten inches of the spring should be visible at the sprayhead fitting. Saw back and forth five or six times. This will keep fitting open and clear of lime. In hard water areas this should be done every day; this takes less than a minute. In all areas, sprayhead should be cleaned and deliming spring used at least once a week. Time involved is about 30 seconds. Where bad liming has already occurred, a new complete tank assembly can be installed in five minutes.

WARRANTY

Newco Coffee Brewers are warranted against defects in workmanship or materials, under normal use, for 90 days from the date of purchase. Brewer parts are warranted against defect for 12 months from date of purchase.

Liability in all events is limited to the purchase price paid and liability under the aforesaid warranty is limited to replacing or repairing any part or parts which are defective in material or workmanship, and returned to our factory, shipping cost prepaid. No warranty expressed or implied, other than the aforesaid is made or authorized by Newco Enterprises.

Prompt disposition will be made if item proves to be defective, and within warranty. Before returning any item, write or call Newco, or the Dealer from whom the product was purchased, giving model number, serial number, and date of purchase, and describe the nature of the defect. If damage was incurred during transit to you, file a claim with the carrier.

Specifications

	RC-2	RD-3
Dimensions		
Height	21"	21"
Width	18"	18"
Depth	9 $\frac{3}{4}$ "	9 $\frac{3}{4}$ "
Shipping Weight	29	30

CAUTION: Disconnect brewer cord from electrical outlet before removal of cover or replacement of any component.

TROUBLE SHOOTING GUIDE

SYMPTOM	POSSIBLE CAUSE	WHAT TO CHECK	REMEDY
NO HOT WATER	<ol style="list-style-type: none"> 1. Tank Heater 2. Hi-limit Thermostat or Main Thermostat 	<ol style="list-style-type: none"> 1. Check the voltage at the tank heater terminals. Voltage should be 120 volts A.C. or 240 A.C. Check serial tag for proper voltage. 2. Check the voltage between the white wire on the tank heater terminal and the incoming terminal (black wire) on the hi-limit thermostat, then the outgoing (black wire) terminal on the hi-limit thermostat. 	<ol style="list-style-type: none"> 1. (A) If correct voltage is present at the tank heater terminals and water tank is not being heated, replace tank heater. (B) If voltage is not present at tank heater terminals, refer to Step 2. (C) If incorrect voltage is present at tank heater terminals, check voltage at outlet. 2. (A) If voltage is present on incoming terminal on the hi-limit thermostat, but not on the outgoing terminal, replace hi-limit thermostat. (B) Check voltage between black and white wire on terminal block. If voltage is not present check outlet or circuit breaker. (C) If voltage is not present on incoming terminal of hi-limit thermostat replace main thermostat.
STEAMING OR SPITTING AROUND FUNNEL	<ol style="list-style-type: none"> 1. Main Thermostat 2. High Altitude 	<ol style="list-style-type: none"> 1. Thermostat points stuck, or out of calibration 2. For altitude above 5,000 ft. see initial operation. 	<ol style="list-style-type: none"> 1. Thermostat should be replaced.
DRIPPING	<ol style="list-style-type: none"> 1. Not siphoning properly 2. Main Thermostat 	<ol style="list-style-type: none"> 1. Water should flow from sprayhead freely. 2. Not to exceed 205° F 	<ol style="list-style-type: none"> 1. (A) Clean sprayhead holes. (B) Refer to liming, pg. 2. 2. Lower thermostat setting or replace thermostat.
DRY COFFEE REMAINING IN BREW BASKET AFTER BREW CYCLE HAS BEEN COMPLETED	<ol style="list-style-type: none"> 1. Filters 2. Not siphoning properly 3. Improper loading of brew basket 	<ol style="list-style-type: none"> 1. Check if correct filters are being used. 2. Refer to "Dripping" section, step 1. 3. Filter and coffee in brew basket. 	<ol style="list-style-type: none"> 1. Insert correct filter. 2. Refer to "Dripping" section, step 1. 3. Filter should be centered in brew basket and coffee bed should be level.
COLD WARMER STATION	<ol style="list-style-type: none"> 1. Warmer — Defective 2. Warmer On-Off Switch 3. Bad harness 	<ol style="list-style-type: none"> 1. Voltage at warmer terminals should be 120 volts A.C. 2. If voltage is not present on warmer terminals, check continuity of switch. 3. a. Check connections between harness and switch and switch and warmer. b. Check continuity between terminal block & switch; and between switches and warmer. 	<ol style="list-style-type: none"> 1. If voltage is present on terminals, but warmer will not heat, replace warmer. 2. If switch does not make and break when turned on and off, replace switch. 3 a. Be sure all connections are tight. b. If continuity is not present, replace harness.
OVER FLOWING DECANTER	<ol style="list-style-type: none"> 1. Receiving decanter not completely empty when brew cycle is started. 2. Not siphoning properly. 	<ol style="list-style-type: none"> 1. Operating instructions. 2. Water should flow from sprayhead freely. 	<ol style="list-style-type: none"> 1. Always start cycle with receiving decanter empty. 2. Refer to dripping section.
CONDENSATION INSIDE OF CABINET	<ol style="list-style-type: none"> 1. Tank not setting high enough. 2. Receiving pan gasket broken or cut. 3. Water temperature above 210°. 	<ol style="list-style-type: none"> 1. Cover must seal against receiving pan. 2. Check receiving pan gasket for nicks or cuts. 3. Check thermostat calibration. 	<ol style="list-style-type: none"> 1. Raise height of tank with shims. P/N 100452. 2. Replace gasket. 3. Replace thermostat.

CAUTION: Disconnect brewer cord from electrical outlet before removal of cover or replacement of any component.

COMPONENT REPLACEMENT INSTRUCTIONS

To replace tank, tank heating element, hi-limit thermostat or main thermostat, follow directions for tank assembly replacement.

TANK ASSEMBLY, POUR-OVER (100455) Fig. 3

1. Disconnect power cord from electrical outlet.
2. Remove brew basket to locate sprayhead & sprayhead nut. Remove sprayhead & sprayhead nut.
3. Remove brewer cover, on model RD-3 disconnect wires from upper warmer plate.
4. Remove wires from terminal block (fig. 2 no. 20) that connects to tank (fig. 2 no. 15) and to the main thermostat (fig. 2 no. 21).
5. Lift tank assembly out of brewer.
6. Replace tank assembly by following reverse procedures.

THERMOSTAT, MAIN (100038) Fig. 2 No. 21

1. Remove receiving pan.
2. Disconnect wires from main thermostat leading to hi-limit thermostat.
3. Remove thermostat knob (fig. 2 no. 23) by pulling toward you.
4. Remove two screws from face of thermostat bracket.
5. Remove grommet (fig. 3 no. 24) from tank by pressing grommet with thumb from outside of tank.
6. Remove grommet from capillary line.
7. Remove capillary bulb by pulling firmly upwards and feeding through tank wall.
8. Replace main thermostat by following reverse procedures.

THERMOSTAT, HI-LIMIT (100174) Fig. 3 No. 22

1. Remove wires from hi-limit thermostat.
2. Loosen nut (fig. 2 no. 15) securing hi-limit thermostat bracket to tank.
3. Remove hi-limit thermostat.
4. Replace hi-limit thermostat following reverse procedures.

ELEMENT, TANK HEATING (100033) Fig. 3 No. 6

1. Remove receiving pan.
2. Remove the two brass nuts (fig. 2. no. 15) securing heater element in tank. Pull threaded end of element to inside of tank wall.
3. Replace tank heating element following reverse procedures.

SWITCH, LIGHTED ROCKER (100085) Fig. 6

1. Disconnect cord from electrical outlet.
2. Remove brewer cover, for model RD3 disconnect wire leads to warmer.
3. Disconnect wires on back of switch. Note location of each wire.
4. Compress spring clip on top and bottom of switch and remove by pressing forward.
5. Replace switch following reverse procedure.

WARMER ELEMENT (100187) Fig. 1 No. 12

1. Disconnect cord from electrical outlet.
2. Remove three 4/40 screws holding warmer plate.
3. Lift plate up and disconnect wire leads connected to warmer element on bottom of warmer plate.
4. Remove two 8/32 nuts holding support plate and warmer element to warmer plate.
5. Replace warmer element following reverse procedures.

REPLACEMENT PARTS FOR FIGURES 1, 2, 3, 4 & 5:

Bracket		Gasket		Sprayhead & Sprayhead Tube Assembly	
1. Bracket, Hi-limit	100143	7. Gasket, Receiving Pan	100132	16. Sprayhead Tube Assembly, (Gasket, Nut, Sleeve)	100009
2. Bracket, Thermostat	100013	8. Gasket, Tank Fitting .564 Gasket, Sprayhead	100030 100025	17. Sprayhead Tube Assembly, Old Style, (Gasket, Nut, Sleeve)	100009-1
Brewbasket		Pan Receiving		Sprayhead, 5 Hole, S/S	100024
3. Brewbasket, Brown	100051	9. Pan, Receiving, Stainless Steel	100045	Sprayhead, Diffuser	201210
Brewbasket, Universal, Wide Base, Brown	100385	Pan, Receiving, Plastic	100036	18. Switch, On/Off Rocker Lighted	100085
Brewbasket, Universal, Wide Base, Black	100385-3	Plate, Name and Switch		Tank	
Bumper Foot		Nameplate, Newco	100058	19. Tank Only, Pour-Over	100040
4. Bumper Foot with Screw	100078	10. Plate, Switch, 2 Station Plate, Switch, 3 Station	100142 100059	Tank Assembly, Pour-Over (Thermostat, Hi-limit Thermostat Tank Heater, Wiring, Brackets)	100455
Clip		Plate, Warming		20. Terminal Block , 120V	100163
5. Clip, Thermostat Capillary	100209	Plate, Support	100086	Thermostat	
Cordset		12. Plate, Brown, Porcelain Plate, Black, Porcelain Plate Warming Assy, Brown Plate Warming Assy, Black	100020 100008 100032 100010	21. Thermostat, Main w/Harness	100038
Cord, Power, 15 AMP, 120V, 14/3	100022	Pour-in Plate		22. Thermostat, Hi-limit	100174
Cord, Power, 20 AMP, 120V, 12/3	212002	13. Pour-in Dish Assy, S/S	100015	23. Thermostat, Knob	100043
Cord, Power, 30 AMP, 240V, 10/4	100072	Dust Cover with Chain (Brn)	100180	24. Thermostat, Grommet	100175
Cover Assembly		Dust Cover with Chain (Blk)	100180-1	25. Vacuum Breaker , Brass Cast	202090
Cover Assembly, 3 Station	100084	Screws, Tinnerman Clips, Nut, Hardware		Vacuum Breaker, Cast w/vent	202083
Cover Assembly, 2 Station	100128	Screw, Warmer, 4-40 x 3/8", S/S	100055	Wires	
Cover Assembly, Conversion, From 2 Station to 3 Station	100188	Screw, Lid 6-32 x 5/16", S/S	100065	Harness Wiring, RC2	100021
Element, Tank Heating		Clip #6, Tinnerman, Name Plate & Switch Plate, Flat Type	100184	Harness Wiring, RD3	100468
6. Element, Tank Heating, 1400W, 120V	100033	Clip #6, Tinnerman, Lid J-Type, S/S	100195	Wire Lead, Tank, from Right Tank Heater Terminal to Terminal Block (White)	100478
Element, Tank Heating, 1800W, 120V	100071	14. Fitting, Bulkhead outlet	100135	Wire Lead, Tank, from Left Tank Heater Terminal to Hi-limit Thermostat (Black)	100488
Element, Tank Heating, 3500W, 240V	100073	15. Nut, 1/2-20 Jam, Brass	100190		

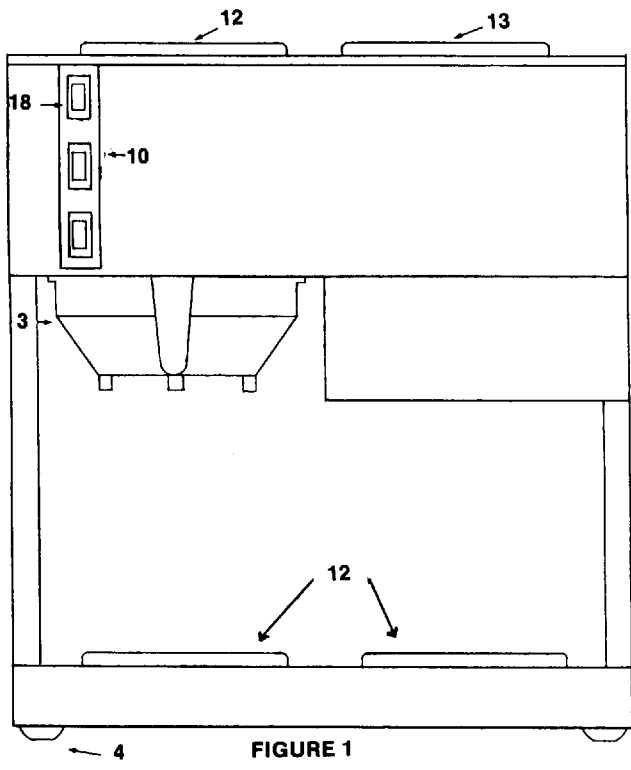


FIGURE 1

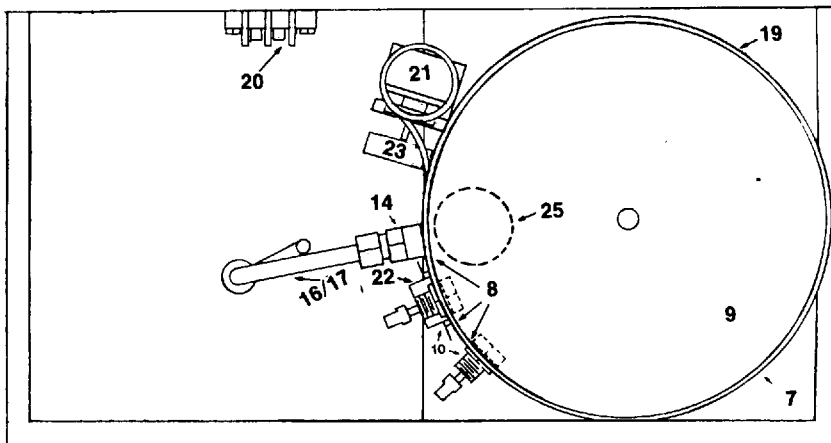


FIGURE 2

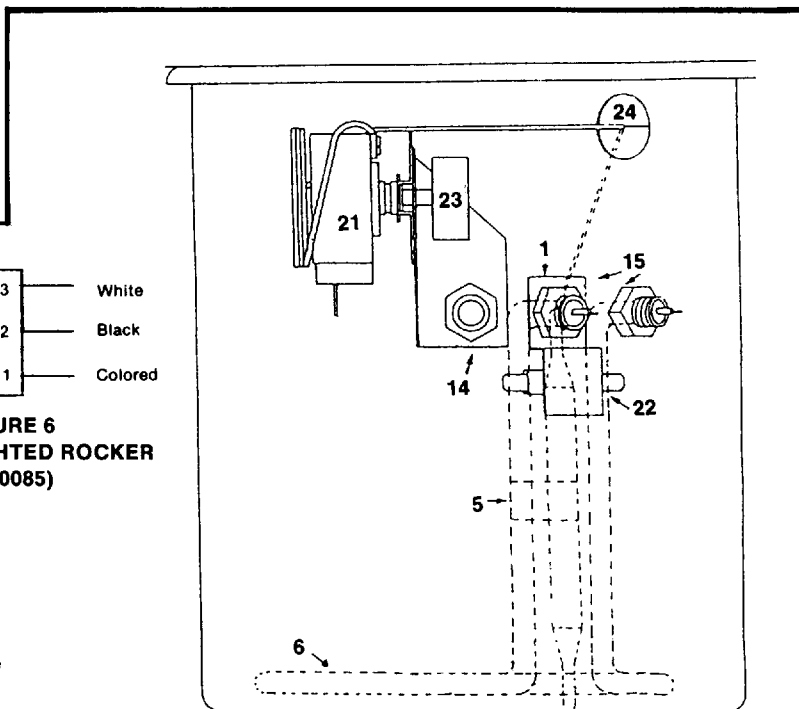


FIGURE 3
TANK ASSEMBLY, POUR-OVER
(#100455)

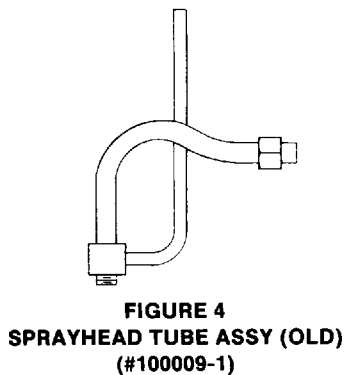


FIGURE 4
SPRAYHEAD TUBE ASSY (OLD)
(#100009-1)

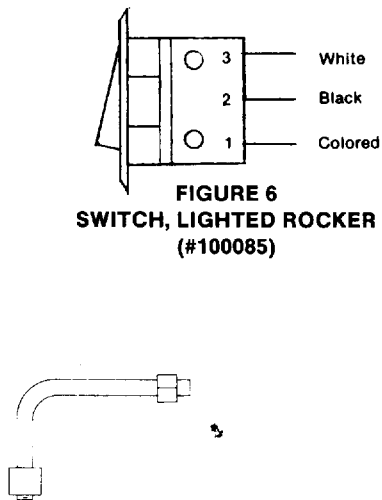


FIGURE 5
SPRAYHEAD TUBE ASSY
(#100009)

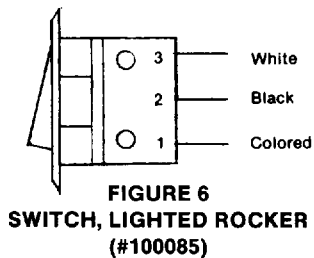


FIGURE 6
SWITCH, LIGHTED ROCKER
(#100085)

Wiring Schematics

