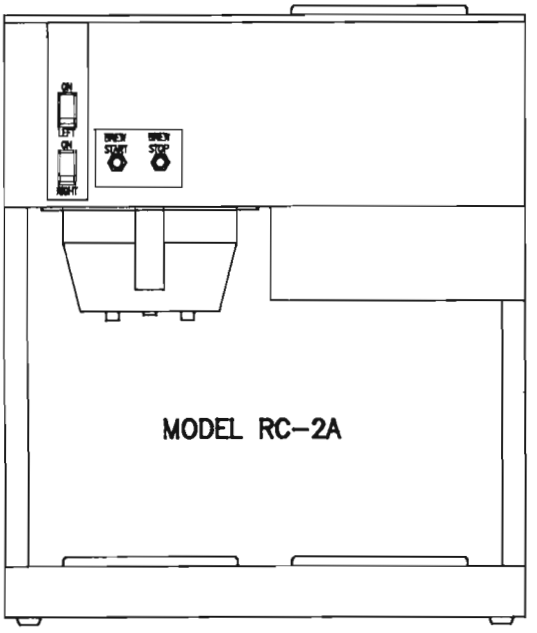
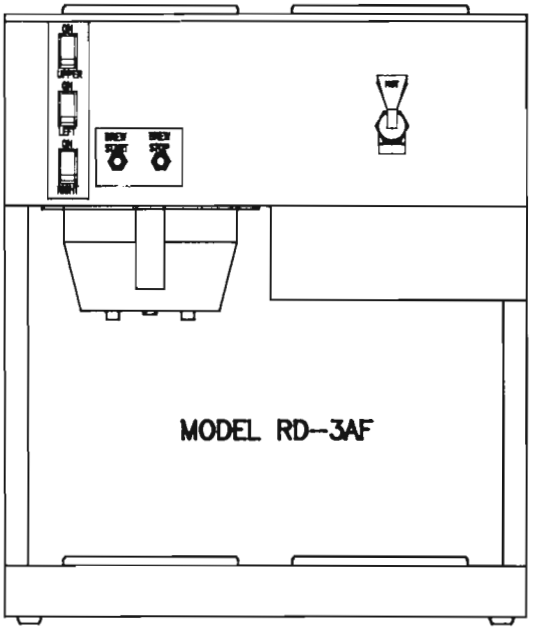
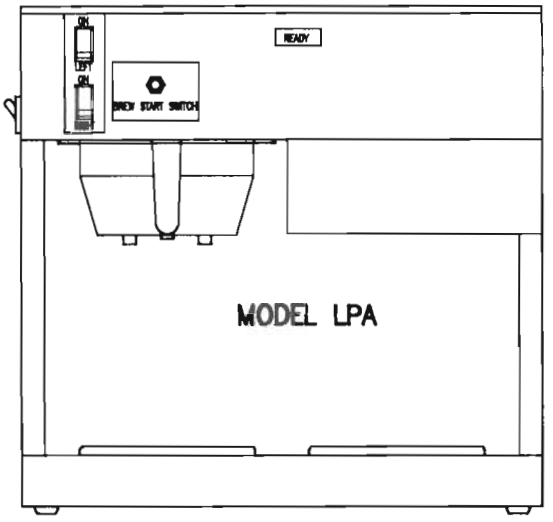
NEWCO
ENTERPRISES, INC.

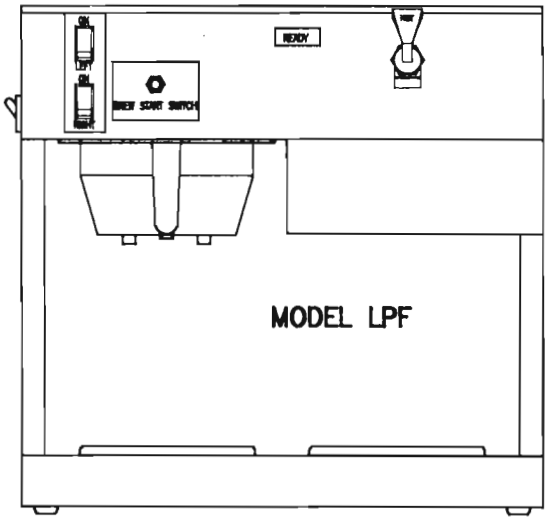
# OPERATING & SERVICE MANUAL

## Model RC2A, RD3A & LPA Automatic Brewer
## Model RC2AF, RD3AF & LPF Automatic Brewer with Faucet

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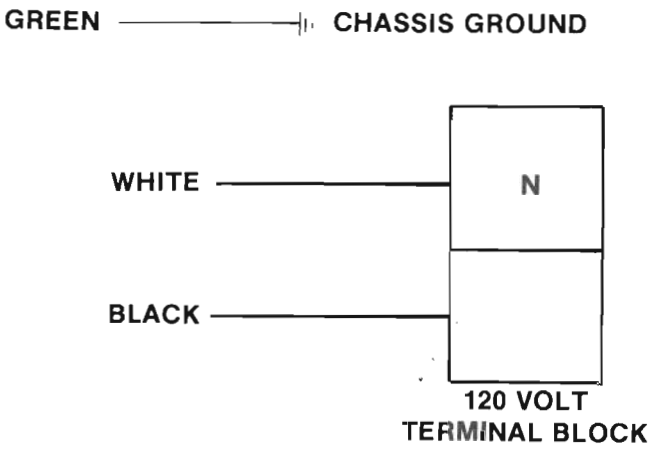
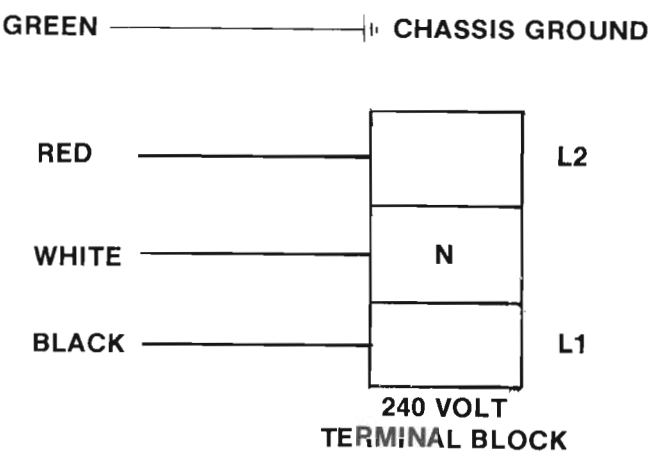
# ELECTRICIAN'S INSTALLATION INSTRUCTIONS




## ELECTRICAL REQUIREMENTS

| | | | |
|---|---|---|---|
| RC2A & AF | 120 V | 1610 Watts | 15A |
| RC2A & AF | 120 V | 2010 Watts | 20A |
| RC2A & AF | 240 V | 3710 Watts | 20A |
| RD3A & AF | 120 V | 1710 Watts | 15A |
| RD3A & AF | 120 V | 2110 Watts | 20A |
| RD3A & AF | 240 V | 3810 Watts | 20A |
| LPA & LPF | 120 V | 1610 Watts | 15A |
| LPA & LPF | 120 V | 2010 Watts | 20A |
| LPA & LPF | 240 V | 3710 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 vols 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.**

# PLUMBER'S INSTALLATION INSTRUCTIONS

**CAUTION:** Power to brewer must be **OFF** before proceeding with plumbing installation.

1. Flush water line before installing brewer. Brewer should be connected to **COLD WATER LINE.**
2. Water pressure should be at least 20 lbs. For less than a 25 ft. run, use 1/4" copper tubing from 1/2" or larger water line. For more than a 25 ft. run, use 3/8" copper tubing from 1/2" or larger water line, and provide an adapter fitting for connection to the brewer.
3. To protect equipment a proper water strainer should be installed.
4. Copper tubing must be used on faucet brewers.
   On Model RC2AF, RD3AF & LPF Brewers: Operate and flush faucet after turning on water. Faucet will dispense water when handle is depressed. No electricity is necessary. Water flow from faucet can be adjusted to desired flow rate. The slower the flow rate, the more hot water is available.

A SHUT OFF VALVE SHOULD BE INSTALLED ON THE INCOMING WATER LINE IN A CONVENIENT LOCATION.

# INITIAL OPERATING INSTRUCTIONS

**WARNING:** Read and follow initial operation 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 the serial plate.**

Newco Automatic Coffee Brewers are designed with the feature of brewing as a pour over–R models only.
**Brewer should not be connected to power source.**

1. To fill tank with water:
   **A. MANUAL FILLING OF BREWER R MODELS ONLY**
   1. Place empty decanter under brew basket.
   2. Pour three decanters (180 oz.) of water into pour in dish. Water should come through brew basket as third decanter drains out of receiving pan.

   **B. AUTOMATIC FILLING OF BREWER**
   1. Remove top cover of brewer. (R Models Only)
   2. Turn thermostat knob to off position to prevent tank element from overheating.
   3. Connect brewer to power source according to electrician's installation instructions.
   4. Turn Master On/Off switch to the On position. (Standard on LP Models optional on R Models)
   5. Place empty decanter under brew basket. Push brew start switch. This will allow water to flow into tank. After cycle is finished repeat this step two additional times. Water should over-flow into decanter on third cycle.
   6. Disconnect brewer from power source.
   7. Turn thermostat knob completely on.
   8. Replace brewer cover. (R Models Only)

2. Connect brewer to power source according to electrician's installation instructions.

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, ready lite will be lit on LP Model), place empty decanter under brew basket. Depress start switch and run a cycle of water to remove expanded water from tank.

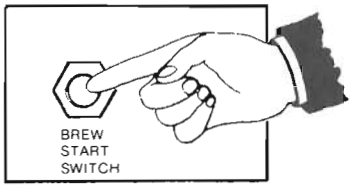
5. Run an additional cycle to check:
   **A. TEMPERATURE** - follow instructions to "gain access to inside of tank" and take the water temperature inside the tank from the top half of the tank. The temp should not exceed 205° F in the tank; 190° F at the coffee grounds; and 184° F to 188° F in the coffee decanter.
   **B. DECANTER VOLUME** - adjust timer to deliver desired amount of water. To increase amount of water increase timer. To decrease amount of water decrease timer.

**NOTE:** Due to higher altitude locations (5,000 ft above sea level) thermostat may have to be readjusted to prevent boiling.

**CAUTION:** On models RC2AF, RD3AF & LPF water faucet will dispense hot water when handle is depressed. The faucet system is independent of the brewing system and can be operated during brew cycle.

## OPERATING AND BREWING PROCEDURE

1. Place filter into brew basket.
2. Put the proper amount of coffee into the filter.
3. Slide brew basket into brew basket holder.
4. Place decanter on left warmer and turn left warmer to on position.
5. Initiate brew cycle by depressing brew start switch.
6. 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.
7. Brew cycle can be stopped at any time by turning off left warmer switch. (If brewer is stopped before brew begins to siphon, the next decanter will over fill.)
8. Turn off warmer when not in use. (Red light indicates warmer is on.)
9. The resultant coffee brew should be crystal clear and have the desired properties attainable through excellent extraction.
10. To clean brew basket, remove brew basket from holder and dump filter into waste basket.
11. The brewing process as described above, can now be started again after water has reached brewing temperature.
12. For models RC2AF, RD3AF & LPF. Hot water for brewing of tea, coffee, soups, and other beverages is available by depressing handle on faucet. **CAUTION:** Hot water is 200° F.




### LIMING

To prevent liming problems in tank fittings remove sprayhead and insert deliming spring all the way into the tank. Saw back and forth five or six times. This will keep fittings 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 at least once a week. Time involved is about thirty seconds. Where bad liming has already occurred a new complete tank assembly can be installed in five minutes.
Deliming Spring Part #201152

**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.**

# TROUBLE SHOOTING GUIDE

## MODELS RC2A, RD3A, LPA, RC2AF, RD3AF, LPF

| SYMPTOM | POSSIBLE CAUSE | WHAT TO CHECK | REMEDY |
|---|---|---|---|
| CANNOT START BREW CYCLE | 1. No Water. | 1. Incoming water lines and water shut off valve. | 1. Be sure water shut off valve is open. |
| | 2. No Power. | 2. Cord set & plug connections. Fuse or circuit breaker. | 2. Voltage at terminal block should be as prescribed on serial tag. |
| | 3. Brew Start Switch. | 3. (A) Switch continuity. (normally open) (B) Master On/Off Switch | 3. (A) If start switch does not make & break contact, replace switch. (B) Turn switch to On. |
| | 4. Brew Stop Switch. (R Models Only) | 4. Switch continuity. (normally closed) | 4. If stop switch does not make & break contact, replace switch. |
| | 5. Timer. | 5. Start brew cycle & check voltage on solenoid connections. | 5. If no voltage present, replace timer. |
| | 6. Warmer Switch. | 6. Check voltage on bottom lead (#1) supplying timer with left warmer switch on. | 6. If no voltage present, replace left warmer switch. |
| | 7. Warmer Switch. | 7. Left warmer switch not on. | 7. Turn warmer switch on. |
| | 8. Solenoid Valve. (RC2A, RD3A & LPA) | 8. (A) Voltage at solenoid valve terminals. Start a brew cycle & check for 120 volts A.C. at terminals. (B) If voltage is present at terminals, check for water at line pressure on the inlet side of the solenoid valve. | 8. (A) If voltage is not present at terminals refer to steps 2 thru 7. (B) If voltage is present at terminals & water at line pressure is present on inlet side of the solenoid, but not present on the out-going side, unplug brewer & remove outlet fitting of solenoid. Clean or replace flow washer. Reassemble solenoid. Reconnect power & check for pressure on out-going side. If pressure is low or nonexistant repair or replace solenoid. |
| | 9. Solenoid Valve. RC2AF, RD3AF & LPF) | 9. (A) Voltage at solenoid valve terminals. Start a brew cycle & check for 120 volts A.C. at terminals. (B) If Voltage is present at terminals check for water at line pressure on the inlet side of the solenoid valve. | 9. (A) If voltage is present at terminals refer to steps 2 thru 7. (B) If voltage is present at terminals & water at line pressure is present on the inlet side of the solenoid, but not present on the out going side, replace or repair solenoid valve. |
| | 10. Flow Control. (RC2AF, RD3AF & LPF) | 10. Water pressure at outlet of flow control. | 10. If water pressure is present at outlet of solenoid but not at outlet of flow control, clean or replace flow control. |
| NO HOT WATER | 1. Tank Heater. | 1. Check voltage at tank heater terminals with main thermostat knob in complete on position. Voltage should be as prescribed on serial tag. | 1. (A) If correct voltage is present replace tank heater. (B) If voltage is not present refer to step 2. (C) If incorrect voltage refer to "electrician's instructions." |
| | 2. Hi Limit or Main Thermostat. | 2. With main thermostat in the fully clockwise position, check the voltage between the tank heater terminal (white wire) & the incoming terminal on the hi limit (black wire) then the outgoing terminal on the hi limit thermostat (black wire) Voltage should be as prescribed on serial tag. | 2. (A) If voltage is present on incoming terminal on the hi limit, but not on the outgoing terminal, replace hi limit. (B) If voltage is present on the incoming terminal (black wire) on the main thermostat, but not on the outgoing terminal (black wire), replace main thermostat. |
| STEAMING OR SPITTING AROUND BREW BASKET | 1. Main thermostat. | 1. Tank temperature exceeds 205 degrees. | 1. Turn thermostat down. |
| | 2. High altitude. | 2. For altitudes above 5000 ft see initial operation. | |

| SYMPTOM | POSSIBLE CAUSE | WHAT TO CHECK | REMEDY |
|---|---|---|---|
| DRIPPING | 1. Not siphoning properly. | 1. Lime build up in vacuum breaker or sprayhead tube. | 1. Run deliming spring through sprayhead tube. |
| | 2. Main thermostat. | 2. Main thermostat set too high. | 2. Refer to steaming, step 1. |
| | 3. Solenoid valve not seating properly. | 3. Solenoid valve. | 3. Be sure spring is in place & any particles are cleaned from valve seat. If valve seat is worn or mutilated, rebuild or replace valve. |
| (RC2AF, RD3AF & LPF) | 4. Faucet coil. | 4. Disconnect power. Empty tank. Check coil & all fittings for leaks. | 4. Replace bad fittings or bad coil. |
| IRREGULAR YIELD OR FLUCTUATING DECANTER VOLUME | 1. Not siphoning properly. | 1. Refer to "Dripping", step 1. | |
| | 2. Timer. | 2. Timer consistency. Without readjusting timer check timer consistency several times with a second hand. Time should not be off more than 2 seconds each run. | 2. If times are irregular, replace timer. |
| | 3. Water pressure. | 3. Fluctuating water pressure. | 3. If pressure fluctuates 10-20 PSI during operation of brew cycle, add a pressure regulator to inlet side of brewer. Set regulator pressure at lowest pressure level registered. Readjust timer to give correct water level. |
| | 4. Receiving decanter not empty upon initialization of brew cycle. | 4. Decanter should be empty when starting brew cycle. | 4. Refer to operating instructions. |
| | 5. Solenoid valve. | 5. Refer to "dripping" section, step 3. | 5. Refer to "dripping" section, step 3. |
| | 6. Flow control. | 6. Flow washer. | 6. Clean flow washer of any particles that may partially or completely clog orifice. Replace washer if necessary. |
| | 7. Strainer. | 7. Water pressure at output of strainer. | 7. If pressure is low, clean or replace strainer. |
| (RC2AF, RD3AF & LPF) | 8. Overfill first decanter in morning. | 8. Check coil assembly for possible leak. | 8. Refer to "Dripping", step 4. |
| WATER KEEPS RUNNING | 1. Solenoid valve. (with brewer disconnected from power source) | 1. Refer to "dripping" section, step 3. | 1. Refer to "Dripping", step 3. |
| | 2. Start switch. (with brewer connected to power source) | 2. Switch continuity. (normally open) | 2. If start switch doesn't make & break contact, switch should be replaced. It if does, check timer step 3. |
| | 3. Timer. (with brewer connected to power source) | 3. Timer should shut off in time prescribed. | 3. If it does not shut off, replace timer. |
| FAUCET WATER FLOW TOO FAST OR TOO SLOW (RC2AF, RD3AF & LPF) | 1. No water. | 1. (A) Incoming water line shut off valve.<br>(B) Faucet needle valve.<br>(C) Faucet for clogging. | 1. (A) Shut off valve should be open.<br>(B) Needle valve should be open.<br>(C) Replace or repair faucet. |
| | 2. Slow flow. | 2. Faucet needle valve. | 2. Increase flow. |
| | 3. Fast flow. | 3. Faucet needle valve. | 3. Decrease flow. |

| SYMPTOM | POSSIBLE CAUSE | WHAT TO CHECK | REMEDY |
|---|---|---|---|
| WARMER PLATES RED HOT-OR SOLENOID COIL SMOKING-OR WATER IN TANK HEATS EXCESSIVELY FAST. | 1. Brewer wired to wrong voltage. | 1. Voltage at terminal block. | 1. Refer to "Electrician's installation instructions" for correct voltage and correct as necessary. |
| DRY COFFEE REMAINING IN BREW FUNNEL AFTER BREW CYCLE HAS BEEN COMPLETED. | 1. Filters. | 1. Check if correct filters are being used. | 1. Insert correct filter. |
| | 2. Not siphoning properly. | 2. Refer to "Dripping" section, step 1. | 2. Refer to "Dripping" section, step 1. |
| | 3. Improper loading of brew basket. | 3. Filter and coffee in brew basket. | 3. Filter should be centered in funnel and coffee bed should be level. |
| WEAK COFFEE | 1. Filters. | 1. Check if correct filters are being used. | 1. Insert correct filter. |
| | 2. Water temperature too low. | 2. Check water temperature, Refer to "Initial Operation Instructions". | 2. Adjust control thermostat knob clockwise to a higher setting. |
| | 3. Not siphoning properly. | 3. Refer to "Dripping" section, step 1. | 3. Refer to "Dripping" section, step 1. |
| | 4. Improper loading of funnel. | 4. Filter and coffee in funnel. | 4. Filters should be centered in funnel and coffee bed should be level. |
| | 5. Missing sprayhead. | 5. Check for sprayhead. | 5. Install sprayhead. |
| SOLENOID CHATTER OR HOWLING | 1. Brewer connected to hot water line. | 1. Incoming water line. | 1. Brewer should be connected to Cold water line. |
| | 2. Vibration. | 2. If brewer is on a metal stand or counter, check to see that neither bottom pan nor copper tubing to brewer is touching counter. | 2. Adjust as necessary. |
| | 3. High water pressure. | 3. Water pressure on incoming line. | 3. If water pressure is over 90 PSI install pressure regulator and adjust to 50 PSI. |
| | 4. Water hammer. | 4. Incoming plumbing. | 4. This is not the fault of the brewer. It can usually be corrected by rearranging some plumbing or adding an air chamber to the incoming water line. |
| | 5. 60 Cycle vibration. | 5. Check tightness of the nut on top of the solenoid valve. | 5. Tighten nut on top of solenoid valve. |
| COLD WARMER | 1. Warmer-defective. | 1. Voltage at warmer terminals. Should be 120 volts A.C. | 1. If voltage is present on terminals, but warmer will not heat, replace warmer. |
| | 2. Warmer On-Off Switch. | 2. If voltage is not present on warmer terminals, check continuity of switch. | 2. If switch does not make and break when turned on and off, replace switch. |
| | 3. Bad harness. | 3. Check connections between harness and switch and switch and warmer. | 3. Be sure all connections are tight. |
| CONDENSATION INSIDE OF CABINET. | 1. Tank not setting high enough. | 1. Cover must seal against receiving pan. | 1. Raise height of tank with shims (P/N 100452) |
| | 2. Receiving pan gasket broken or cut. | 2. Check receiving pan gasket for nicks or cuts. | 2. Replace gasket. |
| | 3. Water thermostat above 210° . | 3. Thermostat. | 3. Refer to "steaming" step 1. |
| FAUCET DRIPPING (RC2AF, RD3AF & LPF ONLY) | 1. Clogged seat cup. | 1. Seat cup. | 1. Disassemble and clean, or replace as necessary. |

# COMPONENT REPLACEMENT INSTRUCTIONS

**CAUTION: Disconnect brewer from power source before removing any panel or component.**

### TO GAIN ACCESS TO INSIDE OF BREWER

1. Disconnect brewer from power source.
2. Hold hot water faucet (fig B,C&E.8) open until cold water comes through. Shut main source of incoming water off. Reopen faucet to relieve any excess pressure.
3. Remove sprayhead & sprayhead nut.
4. Remove brewer cover. On models RD3A & RD3AF disconnect wires from warming element.

### TANK ASSEMBLY, AUTOMATIC (100456) models RC2A, RD3A (fig A.20) (100374) model LPA (fig D.20)

1. Follow instructions to gain access to inside of brewer.
2. Disconnect black & white wire from terminal block (fig A&D.22) that connects to main thermostat & tank.
3. Remove discharge tube (fig A&D.29) from solenoid valve (fig A&D.15).
4. Disconnect sprayhead tube assy from tank.
5. Disconnect thermostat from back panel on LP Model.
6. Lift tank out of brewer.
7. Replace tank by following reverse steps.

### TANK ASSEMBLY, FAUCET (100457) models RC2AF, RD3AF (fig B&C.21) (100375) model LPF (fig E.21)

1. Follow instructions to gain access to inside of brewer.
2. Disconnect black & white wire from terminal block (fig B&E.22) that connects to main thermostat & tank.
3. For models with:
   a. INTERNAL FLOW CONTROL (fig C&E) Remove discharge tube (fig C&E.32) from flow control.
   b. EXTERNAL FLOW CONTROL (fig B) Remove discharge tube (fig B.30) from solenoid valve.
4. Remove faucet inlet tube (fig B,C&E.31) from tank.
5. Remove faucet by following faucet replacement instructions.
6. Disconnect sprayhead tube assy from tank.
7. Disconnect thermostat from back panel on LP Model.
8. Lift tank out of brewer.
9. Replace tank by following reverse steps.

### TO GAIN ACCESS TO INSIDE OF TANK

1. Disconnect brewer from power source.
2. Hold hot water faucet (fig B,C&E.8) open until cold water comes through. Turn shut-off valve on incoming water line to off position. Reopen hot water faucet to relieve pressure.
3. Remove brewer cover. On models RD3A & RD3AF disconnect wires from warming element.
4. a. FOR AUTOMATICS (RC2A, RD3A & LPA fig A&D) Remove discharge tube (fig A&D.29) from solenoid (fig A&D.15).
   b. FOR FAUCETS (RC2AF, RD3AF & LPF) WITH INTERNAL FLOW CONTROL (fig C) Remove discharge tube (fig C&E.32) from flow control.
   c. FOR FAUCETS (RC2AF & RD3AF) WITH EXTERNAL FLOW CONTROL (fig B) Remove discharge tube (fig B.30) from solenoid.
5. Remove discharge tube from receiving pan.
6. Pull receiving pan out of tank.

### THERMOSTAT, MAIN R MODELS (100038) (fig A,B&C.23) L MODELS (100798) (fig D&E.23)

1. Follow instructions to gain access to inside of tank.
2. Pull off thermostat knob. (fig A,B,C,D&E.26)
3. Disconnect thermostat from bracket, (from back on LP Model,) by removing two screws.
4. Remove grommet (fig A,B,C,D&E.25) from tank by pressing grommet with thumb from inside of tank.
5. Pull capillary bulb firmly upwards and feed through tank wall.
6. Remove wires from terminals on bottom of main thermostat (wire to terminal block on outside, wire to hi limit on inside)
7. Replace by following reverse steps.

### THERMOSTAT, HI LIMIT (100174) (fig A,B,C,D&E.24)

1. Disconnect brewer from power source.
2. Remove brewer cover. On models RD3A & RD3AF disconnect wires from warming element.
3. Remove 2 wires from from hi limit.
4. Loosen nut securing hi limit bracket to tank.
5. Remove hi limit.
6. Replace hi limit following reverse steps.

### COIL ASSEMBLY, HOT WATER (100087) Models (RC2AF & RD3AF) (fig B,C&E.6)

1. Follow instructions to gain access to inside of tank.
2. Loosen nuts on hot water coil by turning counter clockwise. Lift coil from tank.
3. Replace hot water coil by starting nuts of hot water coil onto bulkhead fitting & coupling before tightening. Do not over tighten - compression fitting needs only to be tightened firmly.
4. Turn faucet needle valve (fig B,C&E.4) & water line shut off valve to on position and check for leaks at all fittings.
   CAUTION: a slow leak will cause decanter to overflow at night.
5. Reassemble brewer by reversing step 1.

### ELEMENT, TANK HEATING (100033, 1400W) (#100071, 1800OW; #100073, 3500W) (fig A,B,C,D&E.7)

1. FOR FAUCET BREWERS (Models RC2AF, RD3AF & LPF)
   a. Follow steps 1 through 2 of coil assembly replacement instructions. (For reassembly follow steps 4 to 1)
   FOR AUTOMATIC BREWERS (Models RC2A, RD3A & LPA)
   b. Follow instructions to gain access to inside of tank.
2. Disconnect black & white wires from tank element terminals.
3. Remove two brass nuts securing element in tank. NOTE: hi limit thermostat bracket is secured by same nut holding element in tank. Be sure to replace the hi limit and bracket when replacing brass nuts.
4. Pull threaded ends of element to the inside of tank and remove element.
5. Replace element following reverse steps.

**SWITCH, ON/OFF ROCKER (100085)**

1. Follow instructions to gain access to inside of brewer.
2. Disconnect three wires on back of switch. (Note location of each wire)
3. Compress tabs on top and bottom of switch and remove from front of brewer by pushing forward.
4. Replace switch by following reverse steps.

**ELEMENT, WARMING (100187)**

1. Disconnect brewer from power source.
2. Remove three 4/40 screws and spacers or sleeves holding warming 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 retaining plate and warmer element to warmer plate.
5. Replace warmer element following reverse steps.
   NOTE: Spacers or sleeves are a ground that need to stay under the warming plate.

**TIMER, PANEL ASSY 2 BUTTON (100405) (fig A,B,C.28) & 1 BUTTON (100401) (fig D&E.27)**

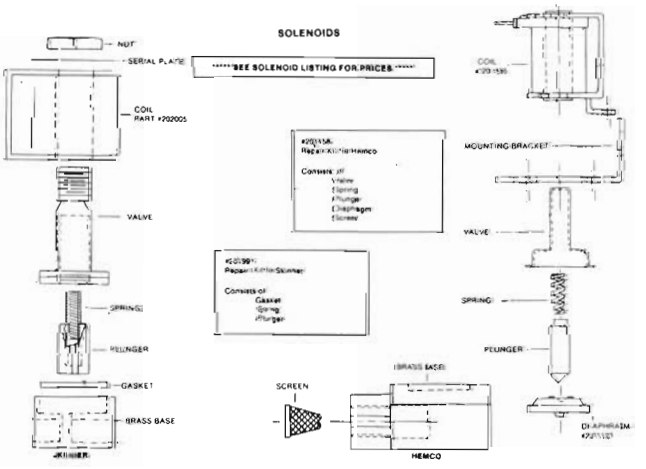
1. Follow instructions to gain access to inside of brewer.
2. Remove two shoulder nuts from front of brewer holding start and stop switches.
3. Push switch buttons through front panel to inside of brewer.
4. Disconnect wires to solenoid valve and wires to lower left warmer switch.
5. Replace timer panel assy by following reverse steps.

**SOLENOID, VALVE ASSY (100092) Models RC2A & RD3A (fig A.15) (100640) Model LPA (fig D.15)**

1. Follow instructions to gain access to inside of brewer.
2. Remove 90 brass elbow from back of brewer.
3. Remove discharge tube (fig A&D.29) from solenoid.
4. Disconnect wires from top of solenoid.
5. Remove screws, washers and nuts securing solenoid valve to side of brewer.
6. Replace solenoid valve by following reverse steps.

**Models RC2AF, RD3AF LPF**

**Models RC2A, RD3A LPA**




**SOLENOID, VALVE ASSY (100083) Models RC2AF & RD3AF with EXTERNAL FLOW CONTROL (fig B.16)**

1. Follow instructions to gain access to inside of brewer.
2. Remove discharge tube (fig B.30) from solenoid valve.
3. Disconnect wires from top of solenoid valve.
4. Remove screws, washers and nuts securing solenoid valve to brewer.
5. Remove swivel nut between solenoid valve and faucet needle valve (fig B.4).
6. Replace solenoid valve by following reverse steps.

**SOLENOID, VALVE ASSY (100083) Models RC2AF, RD3AF & LPF & (100092) Model LPA with INTERNAL FLOW CONTROL (fig C&E.16)**

1. Follow instructions to gain access to inside of brewer.
2. Remove discharge tube (fig C&E.32) & (fig D.29) from flow control.
3. Disconnect wires from top of solenoid valve.
4. Remove screws, washers and nuts securing solenoid valve to brewer.
5. Remove swivel nut between solenoid valve and faucet needle valve (N/A on LPA) (fig C&E.4).
6. Remove flow control from solenoid valve.
7. Replace solenoid valve by following reverse steps.

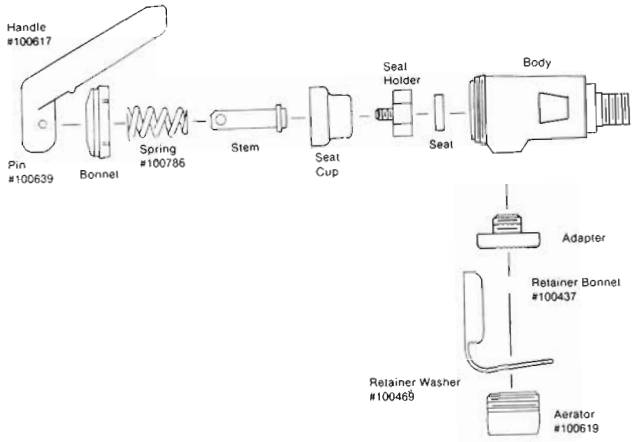
**FLOW CONTROL (152500) Models RC2AF & RD3AF with INTERNAL FLOW CONTROL (fig C.11)**

1. Follow steps 1, 2, and 6 of "Solenoid, Valve assy (100083) with internal flow control" replacement instructions.
2. Replace flow control by following reverse procedure.

**FAUCET, TOMLINSON (100110) Models RC2AF, RD3AF & LPF (fig B,C&E.8)**

1. Follow instructions "to gain access to inside of tank."
2. Unscrew faucet by turning counter clockwise and remove from brewer.
3. Loosen coil fittings (fig B,C&E.6) - do not remove.
4. Hold faucet coupling (that is in between brewer wrapper and tank) with one wrench while loosening coupling nut inside of tank with another wrench.
5. Screw faucet with beauty ring and gasket into faucet coupling, hand tighten.
6. Hold faucet coupling with one wrench while tightening faucet with another wrench.
7. Hold faucet coupling with wrench (in order to hold faucet in position) and tighten coupling nut inside tank.
8. Retighten coil fittings.
9. Reverse step 1.

TOMLINSON FAUCET




**REPLACEMENT PARTS FOR R & L AUTO/FAUCETS**
**A = AUTOMATIC, F = FAUCET**
*** UNIQUE TO LP BREWERS**

**BRACKET**

| | | |
|---|---|---|
| 1. | Bracket, hi limit reset | 100269 (A,F) |
| | Bracket, thermostat | 100013 (A,F) |

**BRASS FITTING**

| | | |
|---|---|---|
| | Fitting, bulkhead, inlet | 100029 ( F) |
| 2. | Fitting, bulkhead, outlet | 100135 (A,F) |
| 3. | Coupling, bulkhead assy | 100607 ( F) |
| | Bushing, 3/8M x 1/4F pipe | 100173 (A,F) |
| | Tee, 1/4F pipe | 100169 ( F) |
| 4. | Needle valve, 3/8F x 1/4 NPT | 100171 ( F) |

**BREWBASKET**

| | | |
|---|---|---|
| | Brewbasket, universal, wide base, brown | 100385 (A,F) |
| | Brewbasket, brown | 100051 (A,F)* |

**BREWRAIL**

| | | |
|---|---|---|
| | Track guide, right | 100076 (A,F) |
| | Track guide, left | 100077 (A,F) |

**BUMPER FOOT**

| | | |
|---|---|---|
| | Bumper Foot w/ screw | 100078 (A,F) |

**CLIP**

| | | |
|---|---|---|
| 5. | Clip, thermostat capillary | 100209 (A,F) |

**COIL ASSEMBLY**

| | | |
|---|---|---|
| 6. | Coil Assembly, hot water | 100087 ( F) |

**CORDSET**

| | | |
|---|---|---|
| | Cord, power, 15 amp, 120V | 100022 (A,F) |
| | Cord, power, 20 amp, 120V | 212002 (A,F) |
| | Cord, power, 30 amp, 240V | 100072 (A,F) |

**COVER ASSEMBLY**

| | | |
|---|---|---|
| | Cover assembly, 3 station | 100084 (A,F) |
| | Cover assembly, 2 station | 100128 (A,F) |
| | Cover assembly, conversion from 2 to 3 station | 100188 (A,F) |
| | Cover, top LP | 100366 (A,F)* |

**ELEMENT, TANK HEATING**

| | | |
|---|---|---|
| 7. | Element, tank heating 1400W, 120V | 100033 (A,F) |
| | Element, tank heating 1800W, 120V | 100071 (A,F) |
| | Element, tank heating 3500W, 240V | 100073 (A,F) |

**ELEMENT**

| | | |
|---|---|---|
| | Element, Warming, 100W, 120V | 100187 (A,F) |

**FAUCET**

| | | |
|---|---|---|
| 8. | Faucet, tomlinson | 100110 ( F) |
| 9. | Bonnet assy, tomlinson | 100610 ( F) |

**FLOW CONTROL**

| | | |
|---|---|---|
| 10. | Flow control, .500 GPM, 1/4F x 1/4F (external) | 101500 ( F) |
| 11. | Flow control, .500 GPM, 1/8 pipe x 1/4 comp (int) | 152500 ( F) |
| | Flow control, .190 GPM, 1/8 pipe x 1/4 comp LP | 152190 ( F)* |
| | Flow control, .250 GPM, 1/8 pipe x 1/4 comp LP | 152250 ( F)* |

**GASKET**

| | | |
|---|---|---|
| | Gasket, receiving pan | 100132 (A,F) |
| | Gasket, tank fitting | 100030 (A,F) |
| | Gasket, sprayhead | 100025 (A,F) |

**LIGHT READY**

| | | |
|---|---|---|
| | Light, Ready, LP | 100229 (A,F)* |

**PAN**

| | | |
|---|---|---|
| | Pan, receiving s/steel | 100039 (A,F) |
| | Pan, receiving s/steel LP | 100373 (A,F)* |

**PLATE, NAME & SWITCH**

| | | |
|---|---|---|
| | Nameplate, Newco | 100058 (A,F) |
| | Plate, 2 button timer | 100127 (A,F) |
| | Plate, 1 button timer | 100136 (A,F)* |
| | Plate, switch, 2 station | 100142 (A,F) |
| | Plate, switch, 3 station | 100059 (A,F) |
| | Plate, switch, LP | 100372 (A,F)* |

**PLATE, WARMING**

| | | |
|---|---|---|
| | Plate, support | 100086 (A,F) |
| | Plate, brown porcelain | 100020 (A,F) |
| | Plate, warming assy, brown | 100032 (A,F) |

**POUR IN PLATE**

| | | |
|---|---|---|
| | Pour-in dish assembly | 100015 (A,F) |
| | Pour-in cover w/ chain | 100180 (A,F) |

**SCREW AND TINNERMAN CLIP**

| | | |
|---|---|---|
| | Screw, Warmer 4-40 x 3/8" | 100055 (A,F) |
| | Screw, lid 6-32 x 5/16" | 100065 (A,F) |
| | Screw, lid, 6-32 x 7/16" LP | 100388 (A,F)* |
| | Clip #6 tinnerman, flat type name plate & switch plate | 100184 (A,F) |
| | Clip #6 tinnerman, j-type, lid | 100195 (A,F) |

**SPRAYHEAD TUBE ASSY**

| | | |
|---|---|---|
| 12. | Sprayhead Tube Assy. | 100009 (A,F) |
| | Sprayhead Tube Assy. LP | 100376 (A,F)* |

**SOLENOID VALVE**

| | | |
|---|---|---|
| | Solenoid, skinner, 120V | 100250 ( F) |
| 13. | Kit, repair for 100250 | 201991 ( F) |
| | Solenoid with flow control | 100251 (A ) |
| 14. | Kit, repair for 100251 | 201158 (A ) |
| 15. | Solenoid, 100251 valve assembly complete | 100092 (A ) |
| 15a. | Solenoid, 100251 valve assembly complete LP | 100640 (A )* |
| 16. | Solenoid, skinner valve assembly complete | 100083 ( F) |
| 16a. | Solenoid, skinner valve assembly complete LP | 100656 ( F)* |
| 17. | Solenoid, skinner valve assembly with flow control (with int. flow control) | 100656 ( F) |

**STRAINER**

| | | |
|---|---|---|
| | Strainer, 1/4" flare | 202003 (A,F) |
| | Strainer, 3/8" flare | 202019 (A,F) |

**SWITCH**

| | | |
|---|---|---|
| | Switch, on/off rocker | 100085 (A,F) |
| 18. | Switch, start (timer) | 100343 (A,F) |
| 19. | Switch, stop (timer) | 201161 (A,F) |
| | Switch, rocker on/off master | 100500 (A,F)* |

**TANK**

| | | |
|---|---|---|
| 20. | Tank assembly, automatic | 100456 (A ) |
| 20a. | Tank asembly, automatic LP | 100374 (A )* |
| 21. | Tank assembly, faucet | 100457 ( F) |
| 21a. | Tank assembly, faucet LP | 100375 ( F)* |
| | Tank only, automatic | 100277 (A ) |
| | Tank only, faucet | 100271 ( F) |
| | Tank only, automatic, LP | 100365 (A )* |
| | Tank only, faucet LP | 100364 ( F)* |

**TERMINAL BLOCK**

| | | |
|---|---|---|
| 22. | Terminal Block, 120V | 100163 (A,F) |
| | Terminal block, 240V | 100041 (A,F) |

**THERMOSTAT**

| | | |
|---|---|---|
| 23. | Thermostat, main w/harness | 100038 (A,F) |
| 23a. | Thermostat, main w/harness LP | 100798 (A,F)* |
| 24. | Thermostat, hi-limit reset | 100633 (A,F) |
| 25. | Grommet, silicone | 100175 (A,F) |
| 26. | Knob, thermostat | 100043 (A,F) |

**TIMER**

| | | |
|---|---|---|
| 27. | Timer, panel assy, 1 button | 100401 (A,F)* |
| 28. | Timer, panel assy, 2 button | 100405 (A,F) |
| | Timer, w/wire harness, no panel, 1 button | 100416 (A,F)* |
| | Timer, w/wire harness, no panel, 2 button | 100417 (A,F) |

**TUBES**

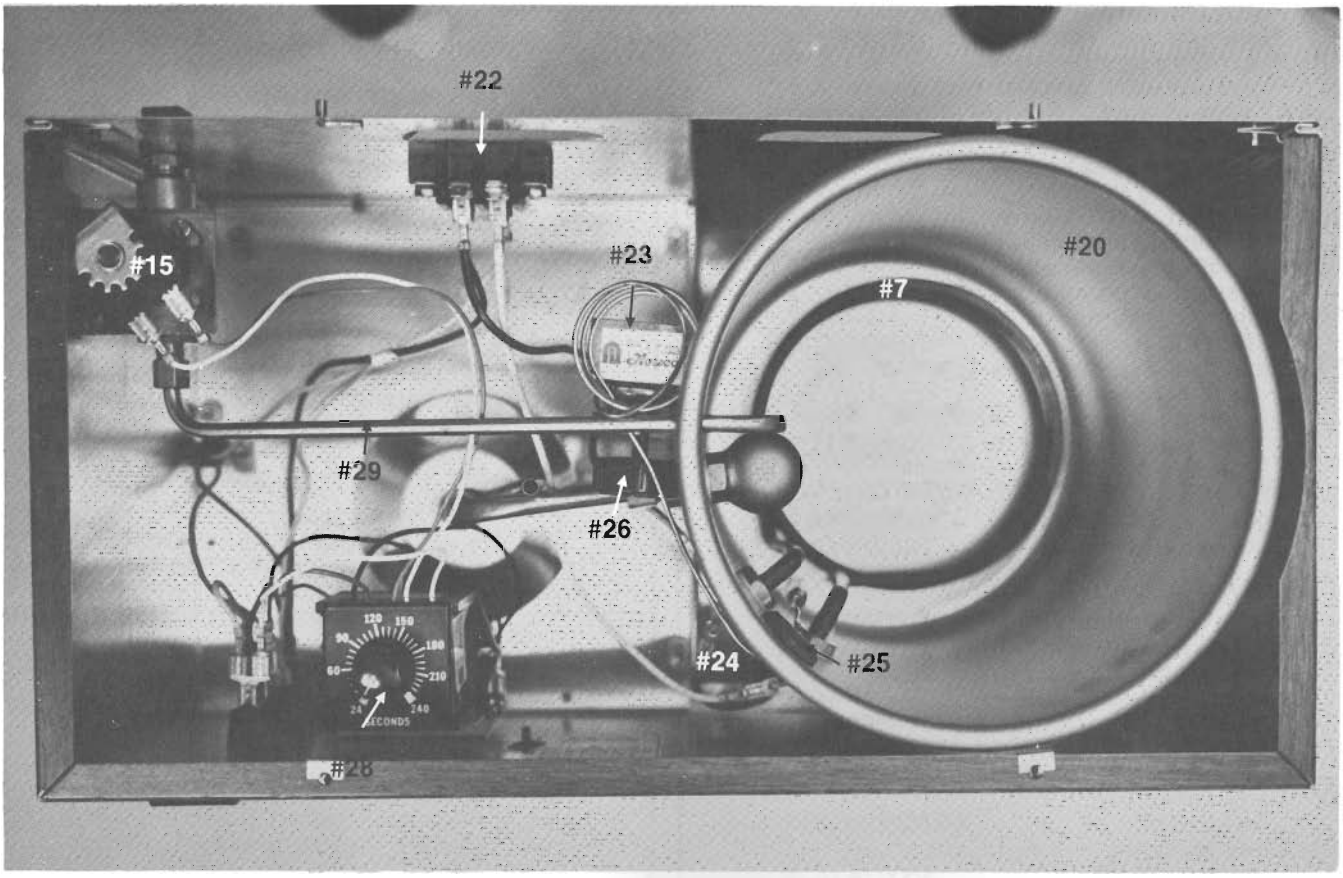
| | | |
|---|---|---|
| 29. | Tube assy, discharge auto | 100118 (A ) |
| 29a. | Tube assy, discharge auto LP | 100369 (A )* |
| 30. | Tube assy, discharge faucet (with ext. flow control) | 100117 ( F) |
| 31. | Tube, inlet faucet, flex | 100011 ( F) |
| 32. | Tube assy, discharge faucet (with int. flow control) | 101186 ( F) |
| 32a. | Tube assy, discharge faucet, LP | 100368 ( F)* |

**VACUUM BREAKER, BRASS CAST**

| | | |
|---|---|---|
| 33. | Vacuum Breaker, Brass Cast | 202090 (A,F) |

**WIRES**

| | |
|---|---|
| Tank wire (white) element to terminal block | 100478 (A,F) |
| Tank wire (black) element to hi limit | 100488 (A,F) |
| Thermostat wires (black) | 100505 (A,F) |



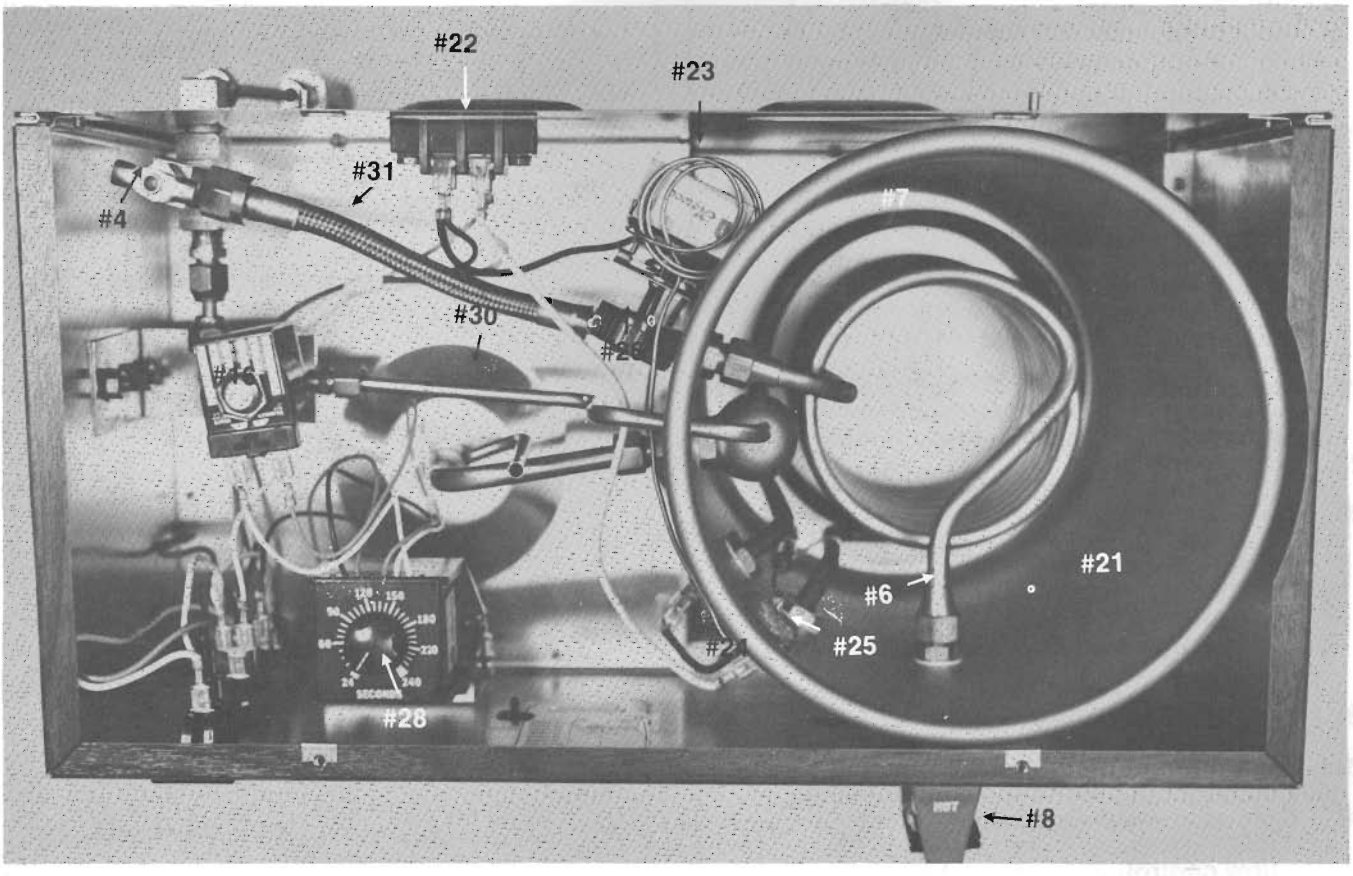




**FIG. B — RC2AF / RD3AF — EXT. FLOW**

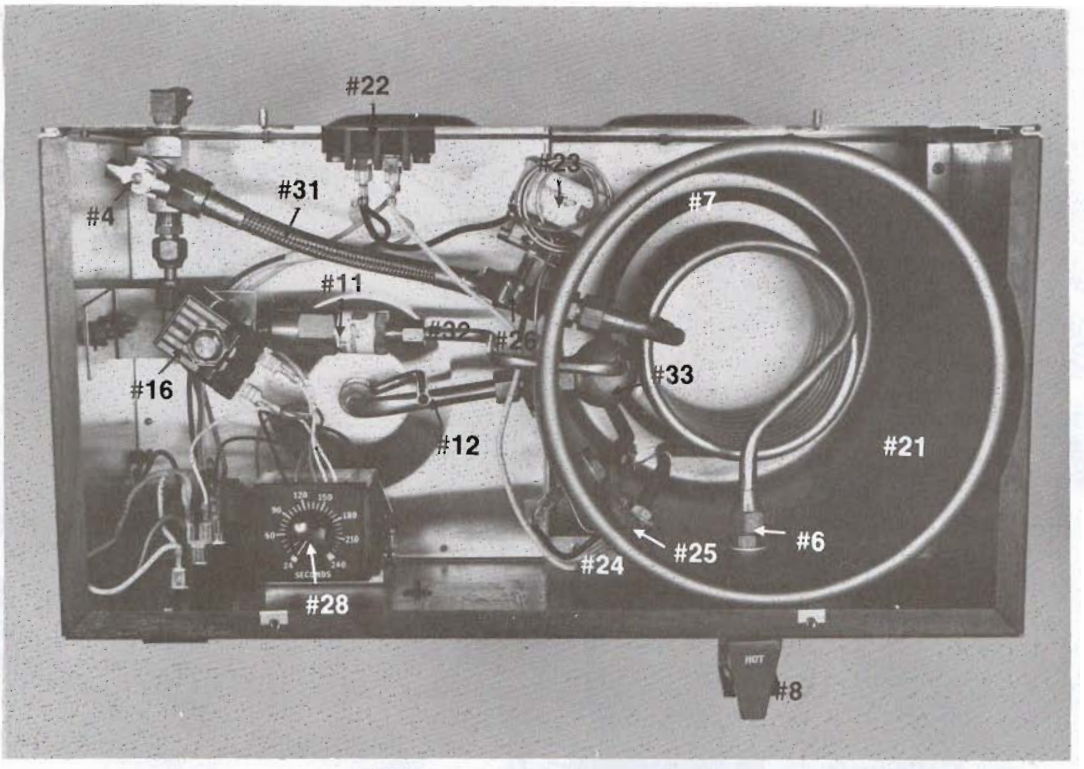
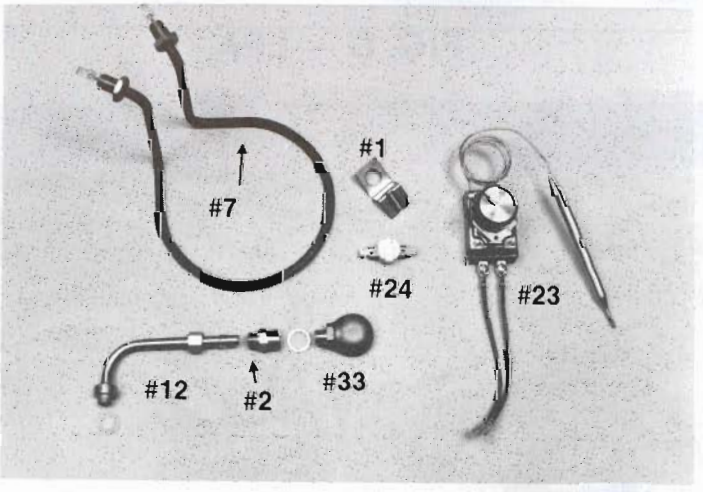
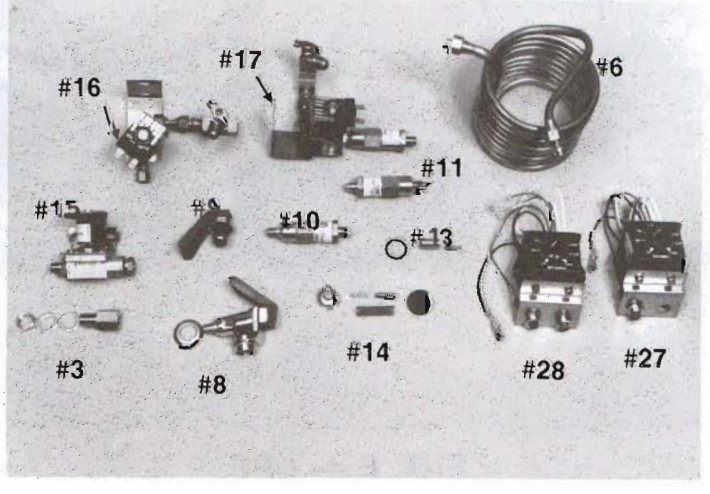



**FIG. C — RC2AF / RD3AF — INT. FLOW**




**AUTO / FAUCET PARTS**



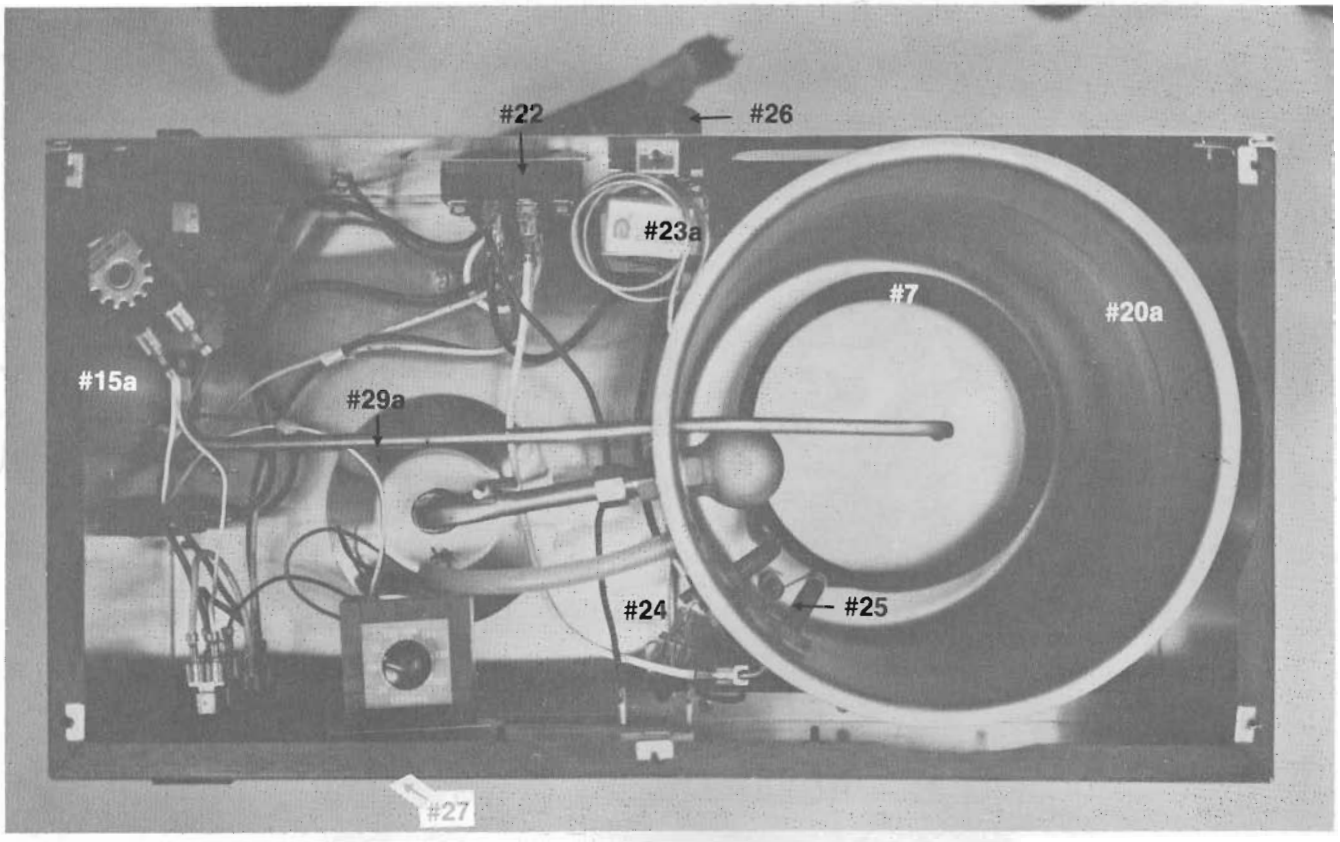



FIG. D — LPA

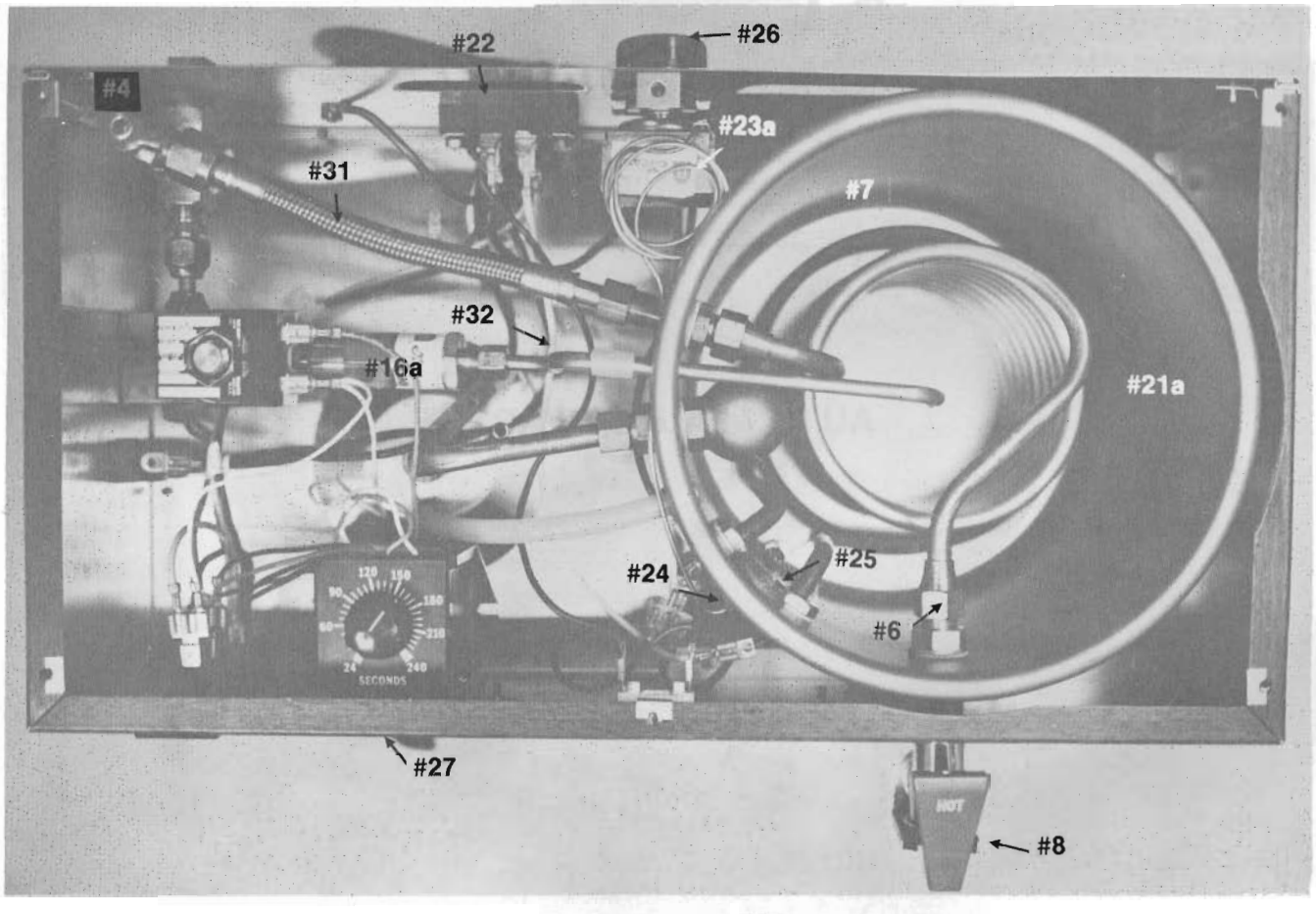
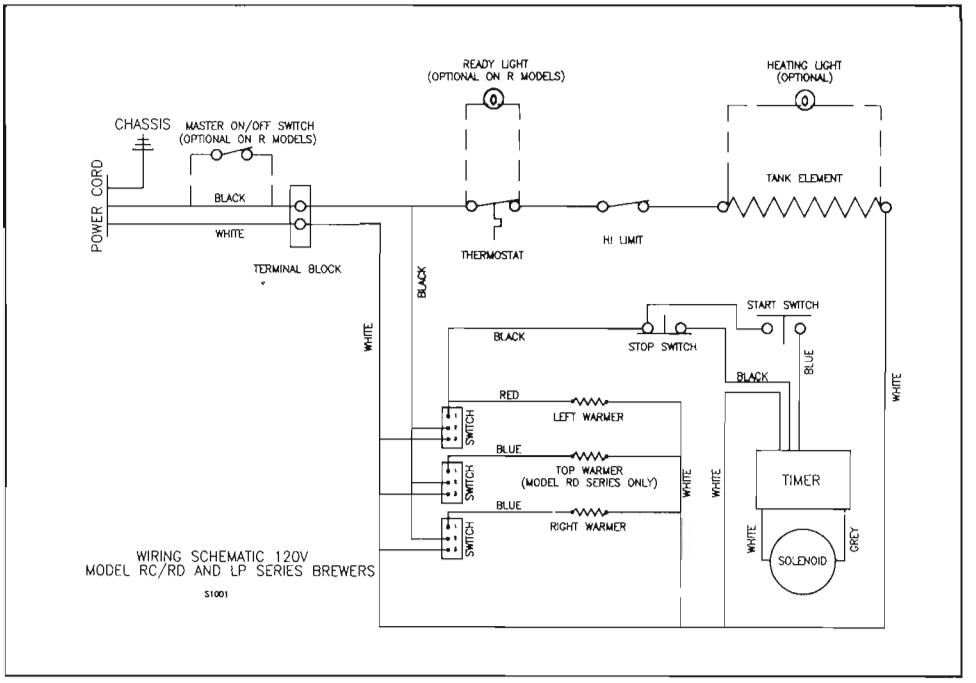
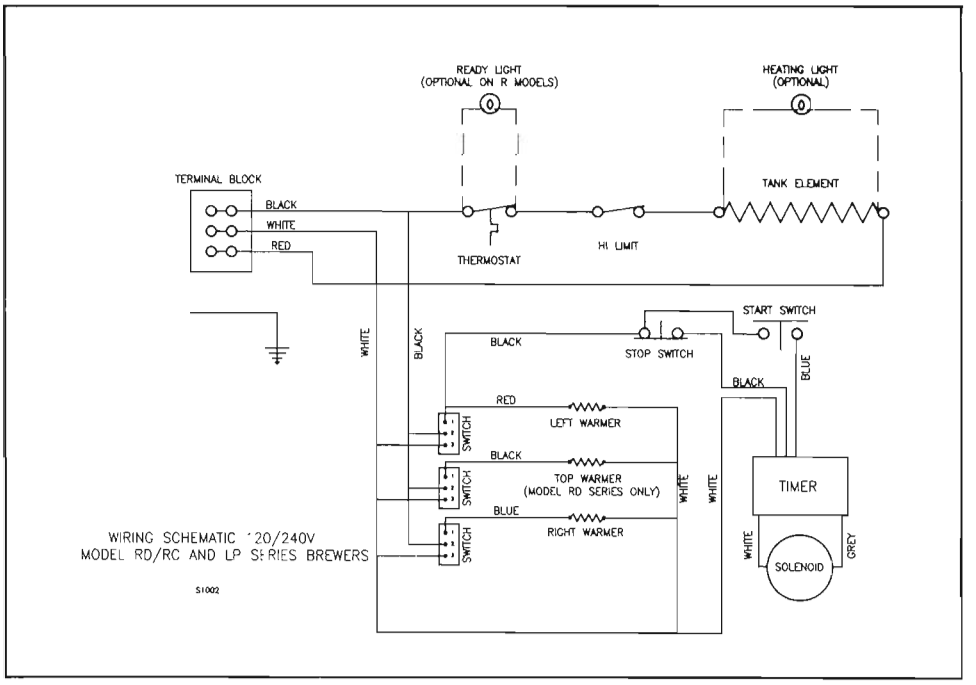



FIG. E — LPF


READY LIGHT
(OPTIONAL ON R MODELS)
HEATING LIGHT
(OPTIONAL)
CHASSIS
MASTER ON/OFF SWITCH
(OPTIONAL ON R MODELS)
POWER CORD
BLACK
WHITE
TERMINAL BLOCK
THERMOSTAT
HI LIMIT
TANK ELEMENT
START SWITCH
STOP SWITCH
BLUE
RED
LEFT WARMER
SWITCH
TOP WARMER
(MODEL RD SERIES ONLY)
RIGHT WARMER
TIMER
SOLENOID
GREY
WIRING SCHEMATIC 120V
MODEL RC/RD AND LP SERIES BREWERS
S1001


READY LIGHT
(OPTIONAL ON R MODELS)
HEATING LIGHT
(OPTIONAL)
TERMINAL BLOCK
BLACK
WHITE
RED
THERMOSTAT
HI LIMIT
TANK ELEMENT
START SWITCH
STOP SWITCH
BLUE
LEFT WARMER
SWITCH
TOP WARMER
(MODEL RD SERIES ONLY)
RIGHT WARMER
TIMER
SOLENOID
GREY
WIRING SCHEMATIC 220/240V
MODEL RD/RC AND LP SERIES BREWERS
S1002

## Specifications

| | RC2/A-AF | RD3/A-AF | LPA/LPF |
|---|---|---|---|
| Dimensions: | | | |
| Height | 21" | 21" | 17.5" |
| Width | 18" | 18" | 18" |
| Depth | 9¾" | 9¾" | 9¾" |
| Shipping Weight | 29/31 lbs. | 30/31 lbs. | 31/32 lbs. |

NEWCO ENTERPRISES, INC.

3650 New Town Blvd., P.O. Box 852 • St. Charles, Missouri 63301
800-325-7867 • 636-925-1202 • FAX 636-925-0029

## 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, 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.