



Wilbur Curtis Co., Inc.

ALPHA DIGITAL COFFEE BREWERS SERVICE MANUAL

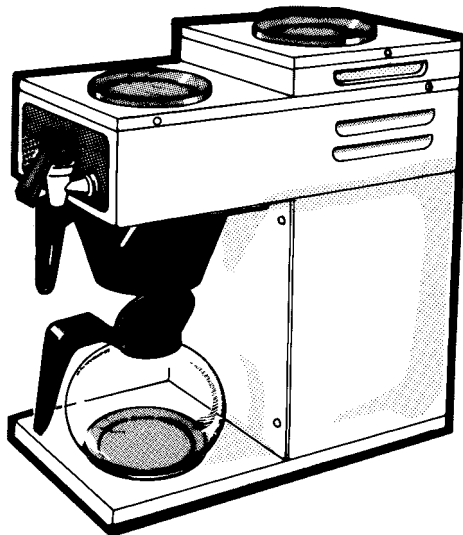
Included in this service manual is information on the Alpha 1D, Alpha 2D, Alpha 3D, Alpha 3DL, Alpha 3DR, Alpha 5DL, Alpha 5DR and Alpha 6D. The information is common to all Alpha digital brewers except where noted.

INCLUDES THE FOLLOWING UNITS:

- ALPHA 1D - ALPHA 2D - ALPHA 3D
- ALPHA 3DR - ALPHA 3DL - ALPHA 5DR
- ALPHA 5DL - ALPHA 6D

CONTENTS

Alpha Digital	1
Setup	1
Setup Steps	2
Brewing	2
Coffee Requirements	2
Programming	3
Trouble Shooting	5
Replacing Membrane	7
Care & Maintenance	8
Illustrated Parts Lists	9 - 15
<u>Wiring Diagrams</u>	
Alpha 1D	16
Alpha 2D	17
Alpha 3D	18
Alpha 3DR	19
Alpha 3DL	20
Alpha 5D	21
Alpha 3D-61/63	22
Alpha 6D	23
Alpha 3D - Export	24
Warranty	Back Cover



Carton Contents

All products manufactured by the Wilbur Curtis Company are thoroughly inspected at the factory and are warranted to be free of all defects and faulty workmanship. The Alpha unit is packaged for maximum protection for shipping.

Make sure the shipping carton is not damaged or punctured. Unpack the carton carefully, inspecting the contents for any damage that may have occurred in transit.

Report any damage immediately to the freight company.

Qty	Item	Part N ^o
1	Automatic Coffee Brewer	Alpha
1	Brewcone	WC-3621
25	Paper Filters	CR-10
1	Elbow Fitting, 3/8 X 1/4 Flare	WC-2401

ALPHA DIGITAL

The Alpha Digital series of automatic coffee brewers require installation to be in compliance with all local water and electrical power codes. The Alpha is designed to brew 12 cups at a time. The Alpha 3D, 3DL and 3DR have three warmer plates that allow up to three decanters to be kept at serving temperature. The hot water faucet lets you draw hot water for tea, instant soups, chocolate drinks or cup meals - even during the brew cycle.

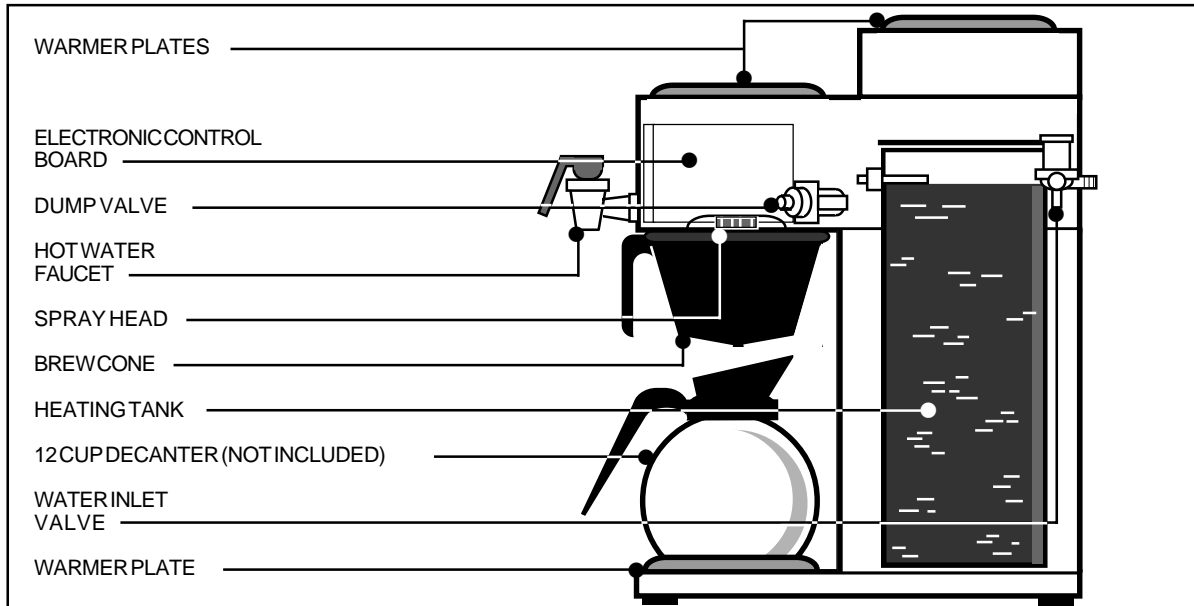


Figure 1. Alpha Brewing System, Basic Components.

THIS EQUIPMENT IS TO BE INSTALLED TO COMPLY WITH THE APPLICABLE FEDERAL, STATE, OR LOCAL PLUMBING CODES HAVING JURISDICTION.

CAUTION DO NOT connect this brewer to hot water. Inlet valve not rated for hot water.

SETUP

The Alpha unit should be located on a solid counter top. The counter top should be level. Connect the water line from the water filter to the unit using $\frac{1}{4}$ " copper tubing with a flare fitting at the end. Some type of water strainer must be used to maintain a trouble-free operation. In areas with extremely hard water, we suggest that an Everpure QC7-MH water filter be installed. Water filters may be ordered from the Wilbur Curtis Company. For customer service call (800) 421-6150.

The National Sanitation Foundation (NSF), requires the following water hookup:

1. A quick disconnect water connection or enough extra coiled tubing (at least 2x the depth of the unit) so that the machine can be moved for cleaning underneath.
2. An approved flow back prevention device, such as a double check valve to be installed between the machine and the water supply.

Alpha decanter brewers are shipped with the power cord connected inside the machine. The power cord ends with an electric plug having two flat blades with a round grounding pin, 120VAC current and 20 amp rating. Some units are rated for 220 volts. Check the serial plate on the side of the machine to make sure of the electrical requirements for your unit.

Setup Steps

1. Connect a ¼" copper water line from your facility to the ¼" flare water inlet fitting on the valve, behind the machine. Water pressure going to the machine must be stable. Use a water regulator to maintain constant pressure. This brewer works perfectly when water pressures are from 20 to 90 psi.
2. Plug the power cord into an electrical outlet rated at 20A.
3. Turn on the toggle switch behind the unit. The heating tank will start to fill. When the water reaches the probe, the heating element will turn on automatically.
4. The heating tank will require 20 to 30 minutes to reach operating temperature (200°F). The READY TO BREW indicator will light at this time.
5. When water reaches operating temperature, dispense about 12 ounces of hot water through the hot water faucet to lower the water level in the heating tank. You can also dispense only enough water to activate the liquid level control.

BREWING

STEPS FOR BREWING COFFEE:

1. Place a paper filter into the brew cone. Pour ground coffee into the filter.
2. Slide the brew cone into place. When pushed in against the stop, the brew cone fits into the slide rails and centers it under the sprayhead (see Figure 1. illustrating basic components).
3. Place a clean coffee decanter on the warmer plate.

CAUTION - Always use an empty decanter before starting a brew cycle.

4. To start brewing, push in the momentary brew switch, located on the front panel. The brew cycle will take approximately three minutes to complete. To stop a brew cycle press the ON/OFF button.

CAUTION - Wait for hot coffee to stop dripping from brew cone before lifting decanter.

5. To stop a brew cycle press the ON/OFF button.

COFFEE REQUIREMENTS

The Alpha coffee brewer will produce excellent results using most grades of coffee available from your coffee distributor. Coffee suppliers can provide coffee in convenient pre-measured envelopes.

The Alpha coffee brewer is designed for *ground* coffee; Freeze Dried or Liquid coffee products will not work.

The Wilbur Curtis Company manufactures bulk coffee dispensers (Models MCD-7 or MCD-7G) that consistently dispense ground coffee in selected amounts.

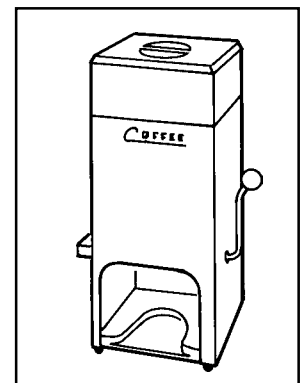


Figure 2. MCD-7 Coffee Dispenser




PROGRAMMING

(ONLY REQUIRED IF FACTORY SETTINGS MUST BE CHANGED)



IMPORTANT These digital brewers are thoroughly tested and programmed at the time of manufacture.
A few brew cycles may be required for unit to normalize.

ENTERING THE PROGRAM MODE



For all programming functions you must first enter the programming mode as follows:

- Turn OFF the power from the Control Panel by pressing .
- Press and HOLD  and press and RELEASE .

MODE #1

- Continue HOLDING  until  starts blinking; RELEASE.

MODE #2

- Continue HOLDING  until  stops blinking; RELEASE.







MODE #3

- Continue HOLDING  until  stops blinking and remains on; RELEASE.

(Over) →

CONFIRM/RESET BREW TEMPERATURE

ENTER THE PROGRAMMING MODE #1:
(PRE-PROGRAMMED FOR 200° F)

- Press  for two seconds, then RELEASE.
-  will start blinking. Each blink equals 2° F, starting at 170° (max. temp. 204° F or 18 blinks).
- To change Temperature, press and HOLD .
-  will start QUICK flashing. Each QUICK flash equals 2° F. After reaching 204°, temperature starts over at 170°.
- RELEASE  when the desired temperature is reached. The newly set temperature will now be displayed. To set and exit, press .

CHANGE BREW VOLUME


IMPORTANT - Before changing the brew volume, place a measuring container on the brew deck and insert the brew cone.

ENTER THE PROGRAMMING MODE #1:
(PRE-PROGRAMMED FOR APPROXIMATELY 64 OUNCES)

- Press and HOLD **BREW** until hot water starts running, then RELEASE.
- When desired volume is reached, press **BREW** again to stop the flow.
- To set and exit, press **ON/OFF**.

TO ACCESS PREVENTATIVE MAINTENANCE BREW CYCLE COUNTER

ENTER THE PROGRAMMING MODE #2:

-  will now start a pattern of LONG and SHORT blinks.
 - This pattern identifies the number of brew cycles. SHORT blinks indicate the brew number from 1 to 9. LONG blinks separate 1's, 10's, 1,000's and 10,000's.

WARMER QUALITY TIMER - *Factory Preset to OFF*







TO DETERMINE WARMER SETTING AND CHANGE TIME

- Warmer must be ON. Press and HOLD **WARMER** until light goes OFF, RELEASE.
- The light will start blinking. Count the blinks. Each blink=5 minutes (maximum 50 minutes).
- At the end of the cycle, press and hold **WARMER** until the light begins quick flashing. The cycle will start over after 11 flashes (a setting of 11 flashes is the OFF position).
- When the desired time is reached, RELEASE **WARMER**.
- To set and exit, press **ON/OFF**.

Table 1. Temperature Settings

NUMBER OF BLINKS	TEMPERATURE	NUMBER OF BLINKS	TEMPERATURE
1	170° F	10	186° F
2	172° F	11	188° F
3	174° F	12	190° F
4	176° F	13	192° F
5	178° F	14	194° F
6	180° F	15	196° F
7	182° F	16	198° F
8	184° F	17	200° F
9	186° F	18	202° F
	188° F		204° F

Table 2. Example of Brew Counting Code

SETS	BLINKING LIGHT PATTERN	NUMBER OF BREWS
1ST		4 x 1 = 4
2ND		2 x 10 = 20
3RD		0 x 100 = 0
4TH		1 x 1,000 = 1,000
5TH		0 x 10,000 = 0
END		
TOTAL BREWS		01024

TROUBLE SHOOTING, CONTINUED

PROBLEM: WATER IN TANK DOES NOT GET HOT
OR WATER TEMPERATURE TOO LOW

CODE: ●●●●●

POSSIBLE CAUSE	SOLUTION
8. Power is off	Make sure unit is on; power cord plugged in. Toggle switch is on. Breaker is on.
9. Defective or loose heat sensor	Remove the sensor and squeeze a dab of silicone compound (part no. WC-5229) between the sensor and the tank body. Make sure the fastening nut is secure. Check the wire for damage.
10. Burned out heating element	Check element for continuity and or check with clamp ammeter. This should show a reading of approximately 15 amps (depending on element wattage). If no power is going through element, replace the heating element.
11. Defective control board	If checks #8, #9 and #10 are normal, the control board is not operating correctly. Replace the microprocessor assembly (#8, figure 6.).

PROBLEM: WATER NOT FLOWING FROM SPRAYHEAD

CODE: ●●●●●

POSSIBLE CAUSE	SOLUTION
12. Sprayhead clogged	Remove sprayhead and clean. Clean the sprayhead fitting.
13. Water level is too low in heating tank	Check water level in tank. If water is not flowing into the tank, review steps 1 thru 4, previous page.
14. Defective control board	Check the continuity between terminals WHT & BREW VLV. When the BREW button is pressed, there should be solid continuity between these two terminals. If not, replace the membrane control panel (see the instructions below). Make sure the board is receiving 110 to 120 volts at terminals BREW VLV and WHITE when BREW switch has been pressed. There should be 110 to 120V going to the dump valve. If not, then the control board is faulty.
15. Defective dump valve or coil	If the control board is functioning properly (step 14), check the dump valve. Measure voltage across the two terminals of the valve coil. You should read 110 to 120 volts. Check also for clogging or lime deposits. Clean if possible. Replace valve or coil.

REPLACING THE MEMBRANE CONTROL PANEL

IMPORTANT - This procedure requires careful positioning of the membrane control panel. Improper application of the new part will ruin the membrane when you try to lift it again. You will have to acquire an additional panel to complete the task.

TEST

Before you actually remove the old membrane, test the old one by using your new membrane. Your old one may be okay.

1. Unplug the machine from your power source.
2. Remove the cover accessing the control board.
3. Unplug the ribbon connector from the control board then take the new membrane and plug the connector into the control board. Place it on a hard surface outside the unit.

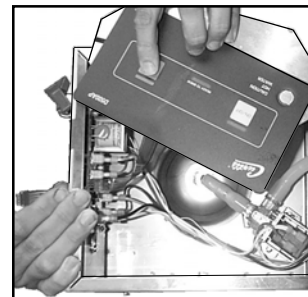


Figure 3. Testing Membrane, Typical

CAUTION Do not bend the new membrane.

When pressing the buttons always have a hard, flat, surface to push against. The tiny dome switches within the membrane may become inverted unless you have something solid behind it.

WARNING TO HELP AVOID PERSONAL INJURY

Do not place objects or reach your hands into the open unit.

4. Return power to the unit and press the ON/OFF button on the new membrane control panel.
5. If your unit still does not function normally, your problem may not be with the membrane panel, but in another component. If your unit runs okay, then proceed with the replacement of the membrane control panel.

REPLACE THE MEMBRANE CONTROL PANEL

1. Unplug the machine from your power source or switch off at the circuit breaker.
2. Remove the cover accessing the control board.
3. On this unit there is a hot water faucet over part of the membrane control panel that must be removed. Open the faucet and let the hot water pour out until the flow stops.

WARNING TO HELP AVOID PERSONAL INJURY

Allow faucet to cool before proceeding. Components may be hot.

4. Disconnect the ribbon cable plug from the control board.
5. Remove the old membrane control panel by lifting one of the corners and peeling it from the front of the unit. Pull the flex cable through the hole.
6. With acetone, remove any adhesive left on the stainless surface. Clean and dry the surface.
7. Take your new panel and insert the flex cable through the opening in front of the unit and connect the flex cable to the control board.
8. Peel off the paper backing on the new membrane panel and carefully position the panel. Line it up correctly with the switches and LEDs. Press onto the surface of the unit. You must get this right the first time. Any attempt to reposition the membrane control panel will damage the small switches within the membrane.
9. Reinstall the faucet. Turn on the water. Return the top cover and front cover. Plug the power cord into and outlet.

CLEANING AND PREVENTIVE MAINTENANCE

1. Slide out the brew cone and clean around the sprayhead and dome using a nontoxic cleaner.
2. Remove the sprayhead from the brewer and clean it. This should be done at least once a week, more often in heavy lime areas.
3. Wipe any spills, dust or debris from the exterior surfaces.

CAUTION: Do not use cleansers, bleach liquids, powders or any other substance that contains chlorine. These products promote corrosion and will pit the stainless steel.

THE USE OF THESE PRODUCTS WILL VOID YOUR WARRANTY.

4. Clean the brew cone slide rails with a brush or damp cloth.
5. The outside surfaces should be cleaned with a **stainless steel polish** only, to prevent scratches.
6. The inside of the heating tank may occasionally require deliming. The frequency is determined by local water conditions.

ALPHA 3D

ILLUSTRATED PARTS

THIS FIGURE (AND FIG. 4.) SHOW THE ALPHA 3D. ALL OTHER ALPHAS ARE SIMILAR EXCEPT WHERE DETAILED (SEE FIGURES 9, 10, 11, 12).

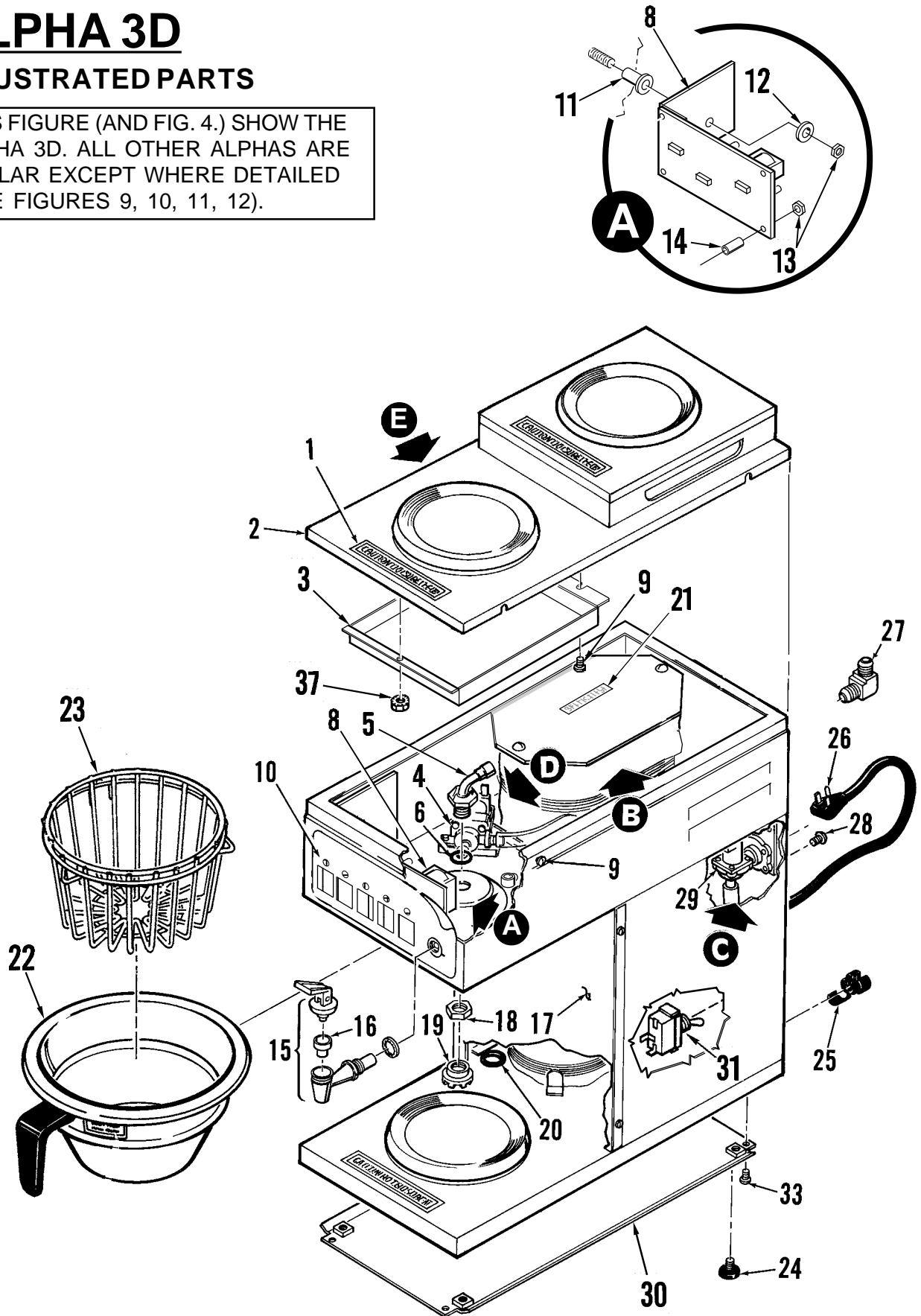


Figure 4. Illustrated Parts List, Main View (Alpha 3D Shown).

ALPHA

ILLUSTRATED PARTS

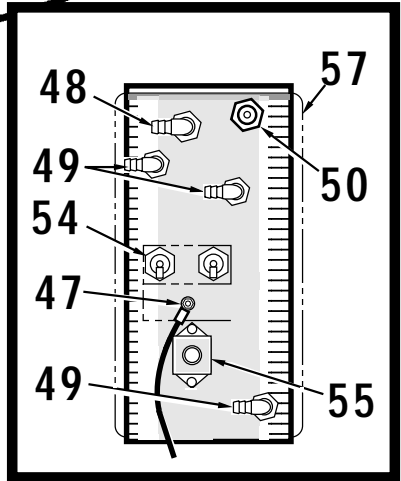
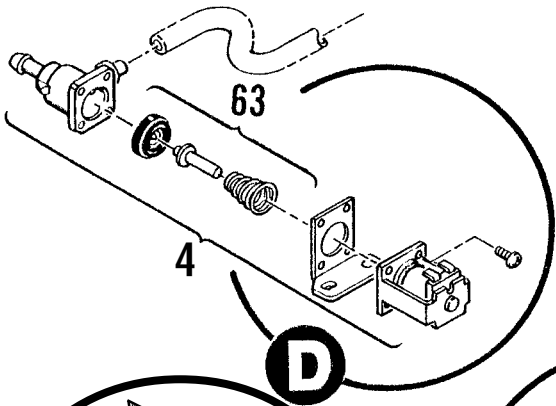
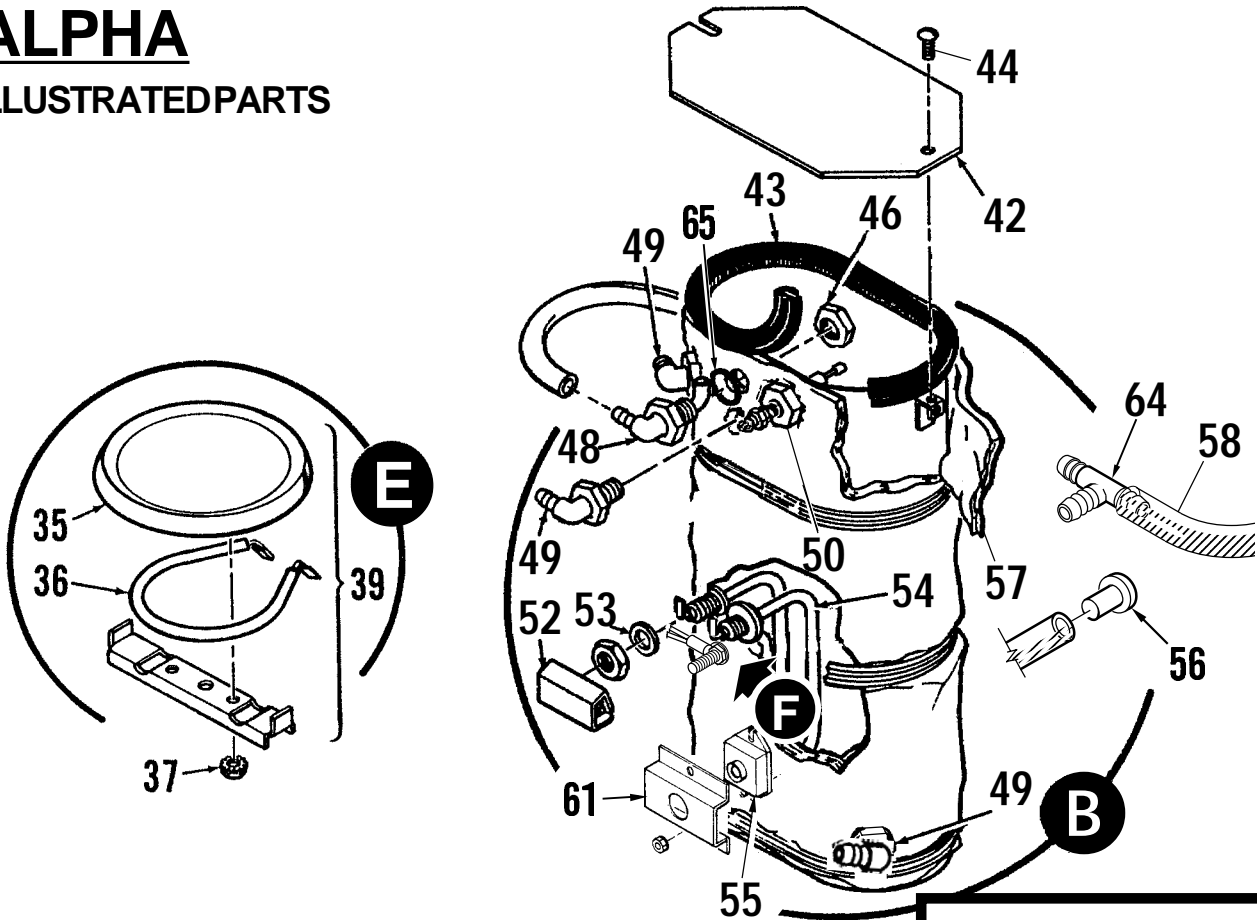


Figure 8. Alpha Tank.

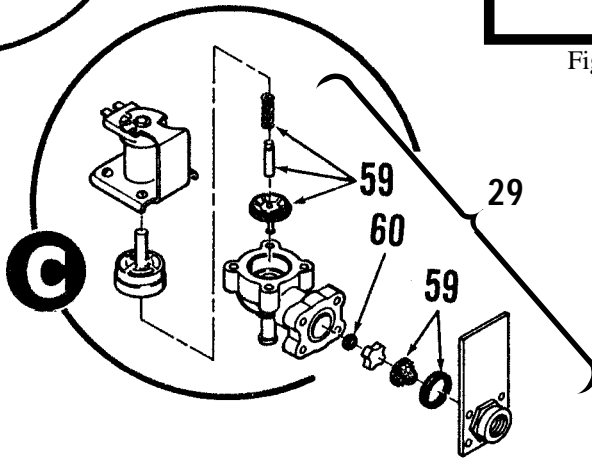
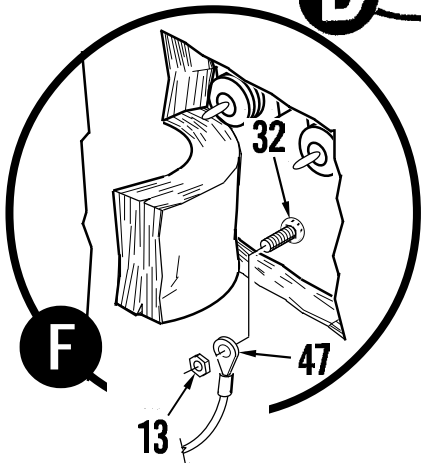


Figure 5. Illustrated Parts List, Detail Bubbles.

ALPHA DIGITAL Parts List

INDEX NUMBER	PART NUMBER	DESCRIPTION
1	WC-38310	LABEL, "CAREFUL HOT SURFACE"
2	WC-6205	WARMER DECK, UPPER ALPHA
3	WC-6826	COVER, WARMER ALPHA
4	WC- 889	VALVE, DUMP LEFT 120V 12W
5	WC-2977	FITTING ASSEMBLY SPRAYHEAD PLATED
6	WC-4320	O' RING, 1/2" I.D.
8	WC-37015	KIT, MICROPROCESSOR ASSY, ALPH-D W/BRD, HT SNK .
9	WC-4436	SCREW, 4x3/8 PHIL PAN HEAD
10	WC-39173	MEMBRANE CONTROL PANEL ALPHA 3D
11	WC-3029	INSULATION, HEAT SLEEVE ALPHA
12	WC-43041	WASHER, TANK LID
13	WC-4238	NUT, 6-32, HEX S.S.
14	WC-43045	SPACER, BOARD .25 DIA x .264
15	WC-1809	FAUCET, HOT WATER
16	WC-1806	SEAT CUP, SILICONE
17	WC-5477	COVER, FRONT ALPHA 1D, -2D, -3D
18	WC-4213	NUT, LOCK 5/8" BRASS
19	WC-2936	SPRAYHEAD, RED (.131 DIA.)
20	WC-1411	BUSHING, 5/8" SNAP-IN
22	WC-3323	BREW CONE, 7 1/8" ASSEMBLY, STAINLESS
23	WC-3317	BREW BASKET, WIRE
24	WC-3503	LEG, SCREW BUMPER, 3/8-16 STD
25	WC-1408	GRIP, CORD 7/8"
26	WC-1200	CORD, POWER 6' 14/3 BLK SJTO
27	WC-2401	ELBOW, 1/4 x 3/8, FLARE
28	WC-4616	SCREW, MACHINE, 1/4 - 20 x 1/2" PH HEAD S/S
29	WC- 826L	VALVE, INLET 1 GPM 120V 10W
30	WC-5819	COVER, BOTTOM ALPHA 3
31	WC- 102	TOGGLE SWITCH, 120V
32	WC-5231	COMPOUND, SILICONE 5 OZ.
33	WC-4426	SCREW, PAN HEAD, 8-32 x 1/4"
35	WC-37102	PLATE WARMER ALPHA
36	WC- 947	WARMER ELEMENT, 90W 120V
37	WC-4201	NUT, KEP, 8-32, ZINC
39	WC-6234	WARMER ASSEMBLY 90W 120V
42	WC-5851	LID, HEATING TANK
43	WC-43062	GASKET, TANK LID
44	WC-4543	SCREW, 8-32x 1" SLOTTED HEX SS
46	WC-4211	NUT, JAM 5/8" NPT BRASS
47	WC-1438	SENSOR, HEATING TANK
48	WC-29015	FITTING, ASSEMBLY OVERFLOW
49	WC-29009	FITTING, ASSEMBLY INLET
50	WC-5502-01	PROBE, WATER LEVEL
52	WC-4394	SHOCK GUARD FOR HEATING ELEMENT

ALPHA DIGITAL Parts List

INDEX NUMBER	PART NUMBER	DESCRIPTION
53	WC-4306	WASHER, 9/16" TEFLON
54	WC- 917-04	ELEMENT, HEATING 1.45KW 120V W/JAM NUTS & SILICONE WSHR
55	WC- 522	THERMOSTAT RST
56	WC-43058	PLUG, TANK DRAIN PP RED
57	WC-3685	INSULATION, WRAP ALPHA-D
58	WC-5310	TUBE, SILICONE, 5/16" I.D.
59	WC-3765L	KIT, INLET VALVE REPAIR USE ON WC- 826L
60	WC- 829	WASHER, FLOW .35GPM .5"
61	WC-43055	SHOCK GUARD, RESET THERM
63	WC-3763	KIT, DUMP VALVE FOR WC866, WC889, WC816, WC817 & WC818
64	WC-29018	PLASTIC TEE
65	WC-4320	O' RING, 3/4" I.D.

ITEMS SPECIFIC TO ALPHA 1D, 2D, 3DR, 3DL, 5D, 6D (SEE IPB, PAGES 14, 15 & 16)

66	WC-6206	COVER, TOP ALPHA 1D, 3DR & 3DL
67	WC-5820	COVER, BOTTOM ALPHA 3DR & 3DL, 5DR & 5DL
68	WC-6224	COVER, TOP ALPHA 2D
69	WC-39174	MEMBRANE CONTROL PANEL ALP-2D
70	WC-39175	MEMBRANE CONTROL PANEL ALP-1D
71	WC-6642	COVER, TOP ALPHA 6D
72	WC-6666	COVER, CENTER WRAP ALPHA 6D
73	WC-5896	COVER, BOTTOM ALPHA 6D
74	WC- 129	SWITCH, WARMER RED ALPHA 5D

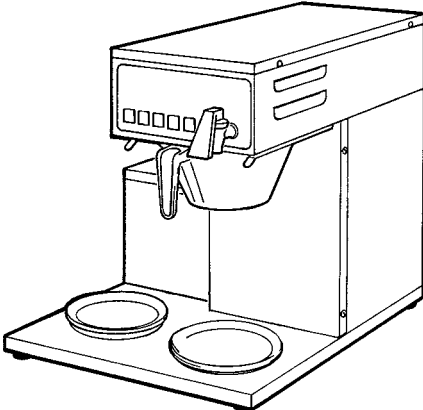
75	WC-3621	BREWCONE, UNIVERSAL PLASTIC STD.
----	---------	---

ALPHA EXPORT COMPONENTS

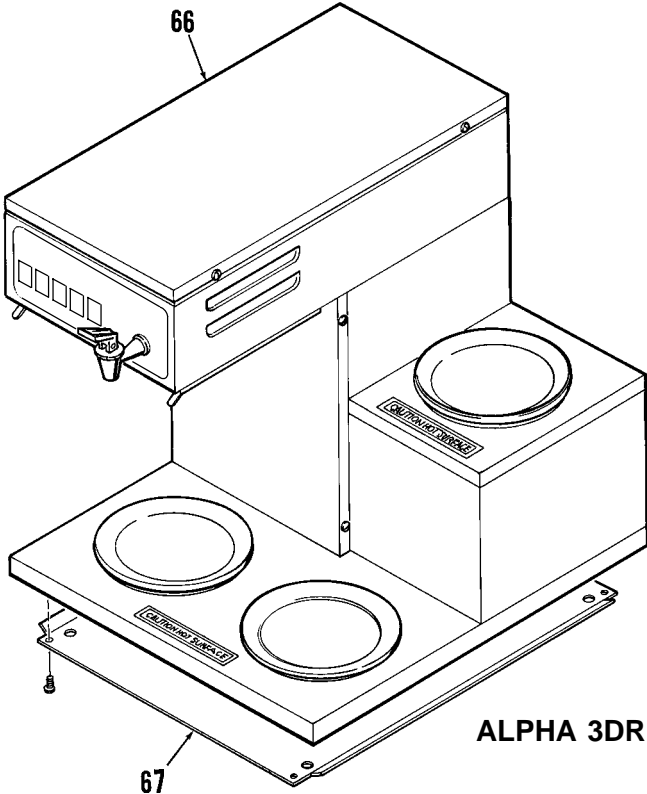
76	WC- 103	TOGGLE SWITCH, 220V
77	WC- 305	POWER BLOCK
78	WC- 701	TRANSFORMER, 220V - 120V
79	WC- 856	VALVE, INLET 220V
80	WC- 860	VALVE, DUMP 220V
81	WC- 922-04	ELEMENT, HEATING 3.5KW 220V W/JAM NUTS, SILICONE WSHR
82	WC-37163	KIT, WARMER ELEMENT 100W 220V

ALPHA 3DR & ALPHA 3DL

THIS FIGURE ILLUSTRATES THE DIFFERENCES BETWEEN THE ALPHA 3DR/L AND THE ALPHA 3D. THE ALPHA 3DR/L HAS A PLAIN TOP COVER AND A WIDE BOTTOM COVER..



ALPHA 3DL



ALPHA 3DR

Figure 6. Illustrated Parts, Alpha 3DR & 3DL.

ALPHA 2D

THIS FIGURE ILLUSTRATES THE DIFFERENCES BETWEEN THE ALPHA 2D AND THE ALPHA 3D. THE ALPHA 2D HAS ONLY TWO WARMERS, A DIFFERENT TOP COVER AND TWO WARMER SWITCHES ON THE SWITCH PANEL.

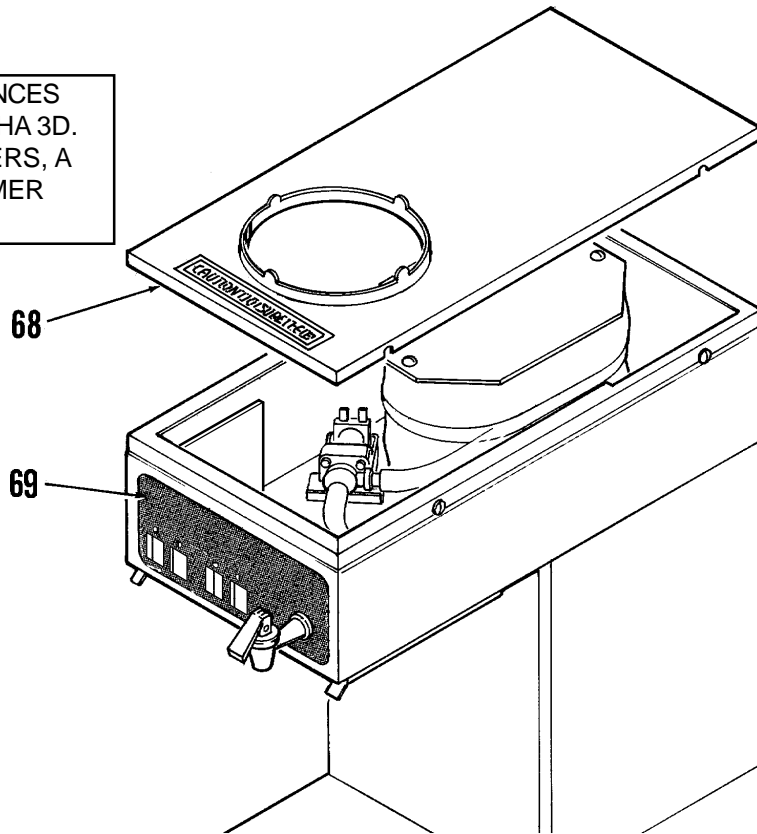


Figure 7. Illustrated Parts, Alpha 2D.

ALPHA 1D

THIS FIGURE ILLUSTRATES THE DIFFERENCE BETWEEN THE ALPHA 1D AND THE ALPHA 3D. THE ALPHA 1D HAS A PLAIN TOP COVER. THE ALPHA 1D HAS ONLY ONE WARMER AND ONE WARMER SWITCH ON THE SWITCH PANEL.

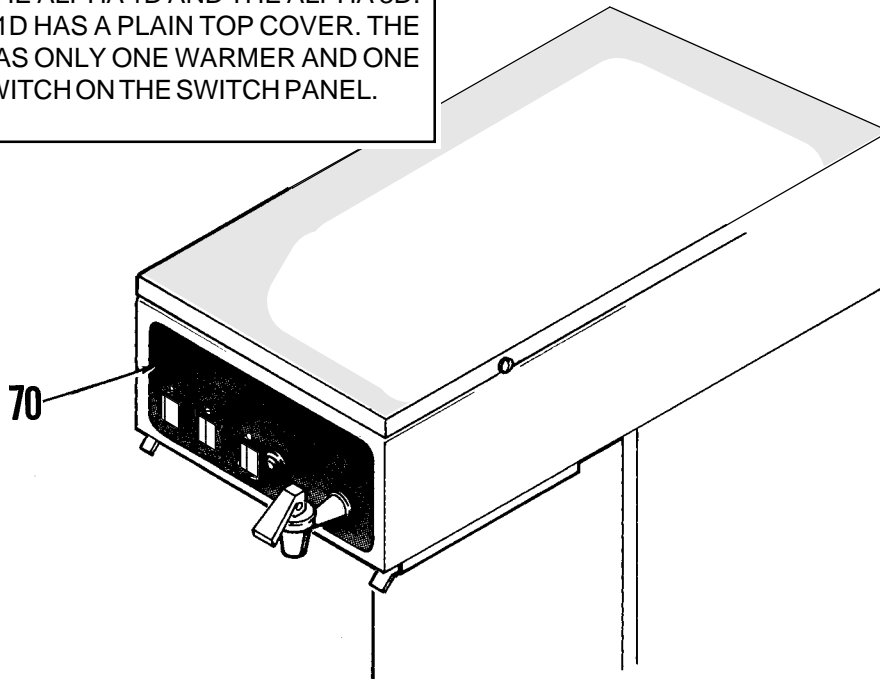


Figure 8. Illustrated Parts, Alpha 1D.

ALPHA 6D

THE ALPHA 6D IS BASICALLY AN ALPHA 3DR AND AN ALPHA 3DL LINKED TOGETHER. THIS FIGURE ILLUSTRATES THE DIFFERENCES BETWEEN THE ALPHA 6D AND THE ALPHA 3D. THE ALPHA 6D HAS A TOTAL OF SIX WARMERS, A LARGER TOP COVER, CENTER COVER, AND BOTTOM COVER.

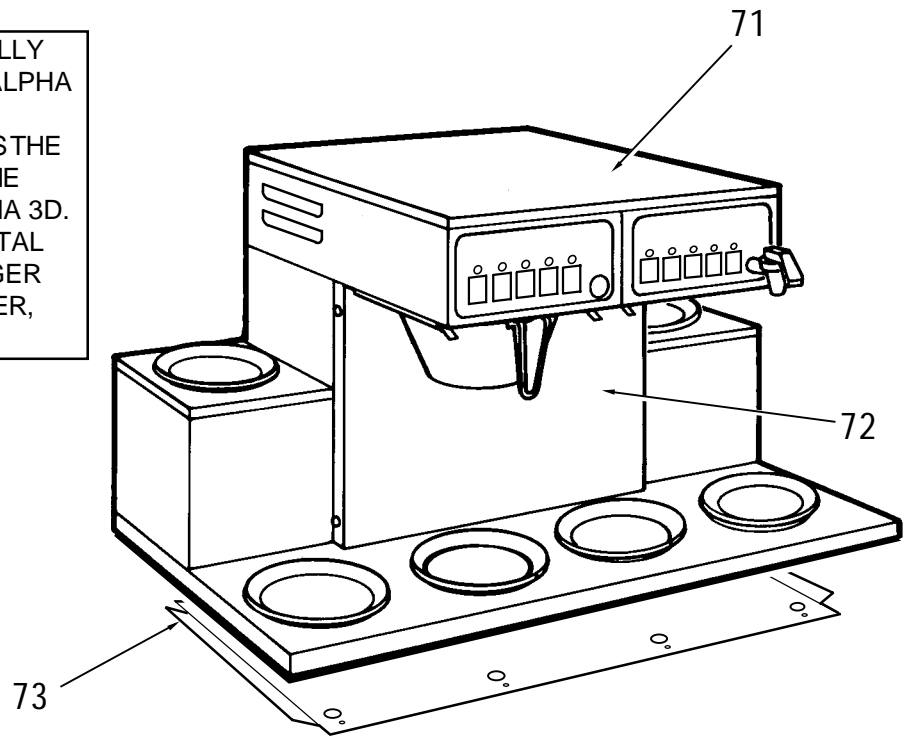


Figure 9. Illustrated Parts, Alpha 6D.

ALPHA 5DL & ALPHA 5DR

THIS FIGURE ILLUSTRATES THE DIFFERENCES BETWEEN THE ALPHA 5Ds AND THE ALPHA 3D. THE ALPHA 5D HAS TWO ADDITIONAL SIDE WARMERS, AS WITH THE ALPHA 3DL & 3DR BUT WITH TWO SEPERATE WARMER SWITCHES.

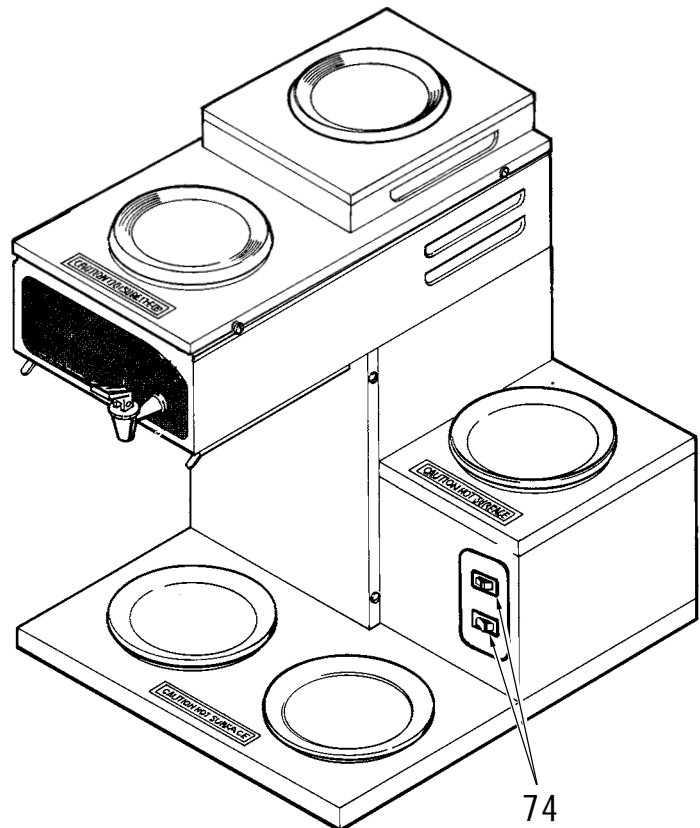
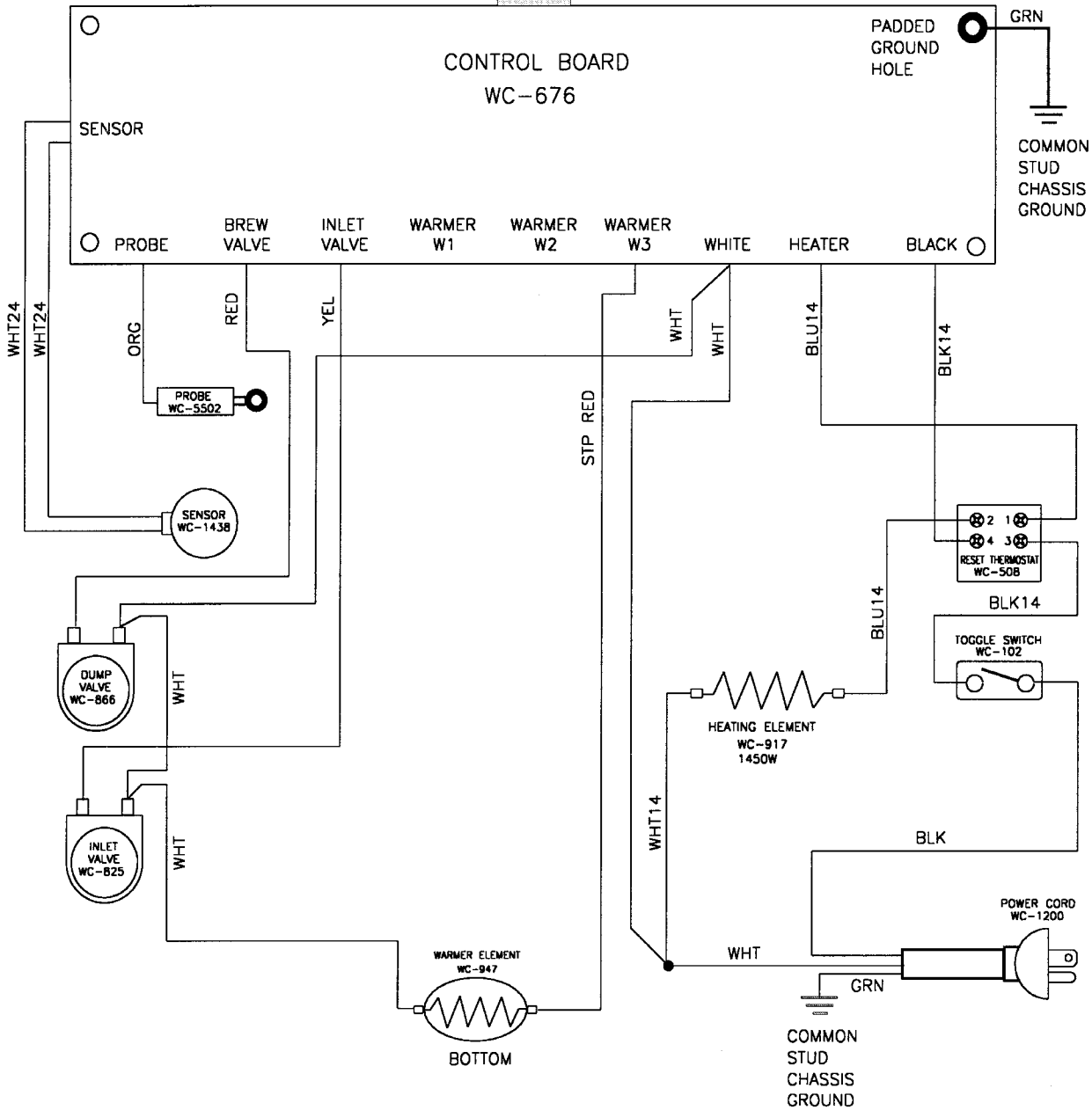


Figure 10. Illustrated Parts, Alpha 5D.

DIAGRAM NO. WD-AL1D-10	PART NO. ALPHA-1D-10 1-STA DECANTER COFFEE BREWER	WIRES 2+GND	CYCLE 60	WATTAGE 1600	DRAWN BY: EMDI	CHECKED BY: MDD	APPROVED: [Signature]	EDR/ECN NO. 1790	REV D
		PHASE SINGLE	VOLTAGE 120	AMPERAGE 13	DATE: 5/12/97	DATE: 1/6/98	DATE: 1.7.98		

MEMBRANE CONTROL PANEL
ALPHA-1D
WC-39175

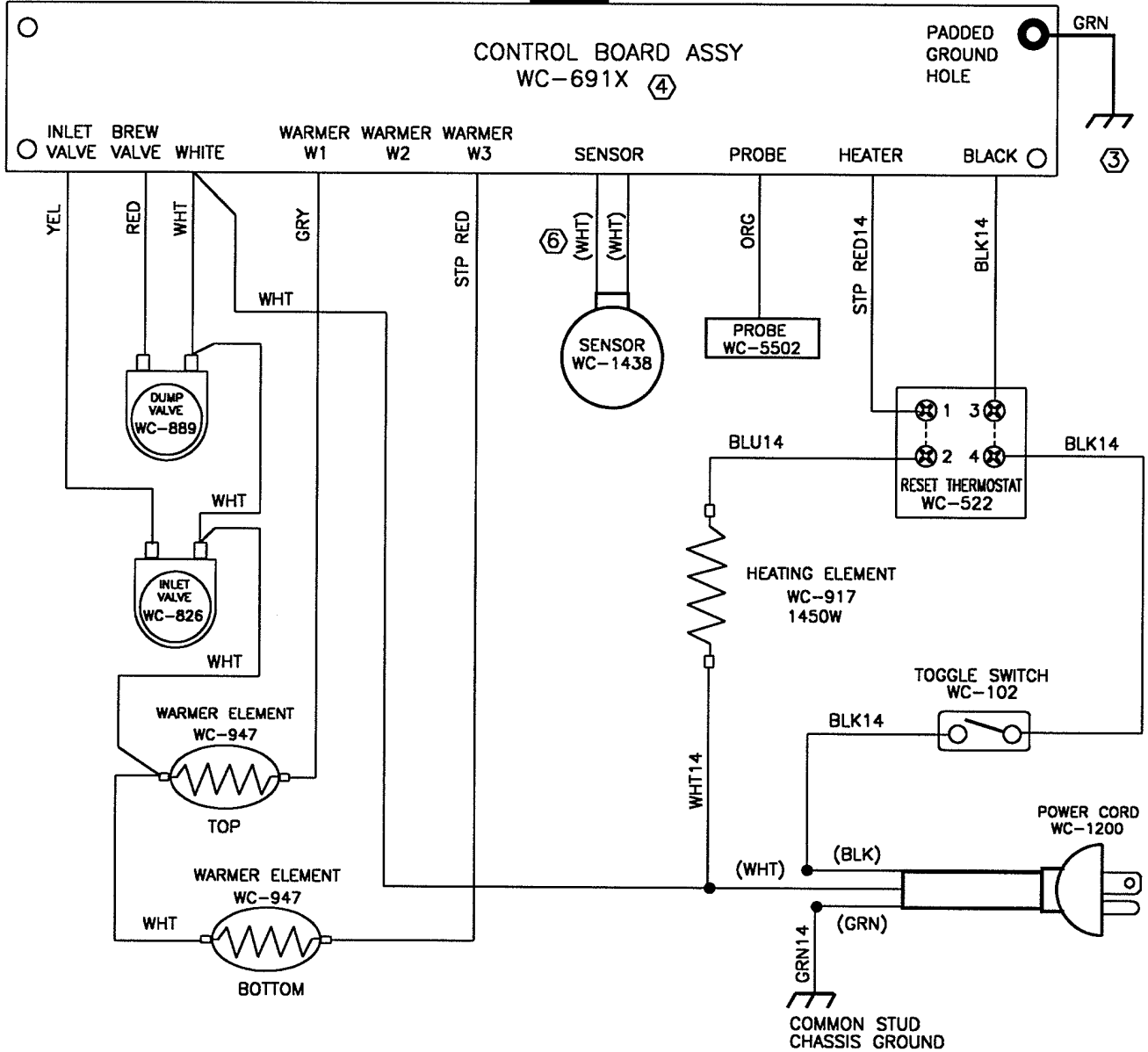


2. COLORS ARE FOR REFERENCE ONLY.
1. ALL WIRES SHALL BE 22 AWG TEFLON.
NOTE: UNLESS OTHERWISE SPECIFIED

5

DIAGRAM NO. WD-AL2D-10	PART NO. ALPHA-2D-10 2-STA DECANTER COFFEE BREWER	WIRES 2+GND PHASE SINGLE	CYCLE 60 VOLTAGE 120	WATTAGE 1700 AMPERAGE 14	DRAWN BY: EMDI DATE: 5/12/97	CHECKED BY: <i>Alan</i> DATE: 10/6/99	APPROVED: <i>trd</i> DATE: 10.6.99	EDR/ECN NO. 3221	REV E
---------------------------	--	-----------------------------------	-------------------------------	-----------------------------------	---------------------------------------	--	---	---------------------	----------

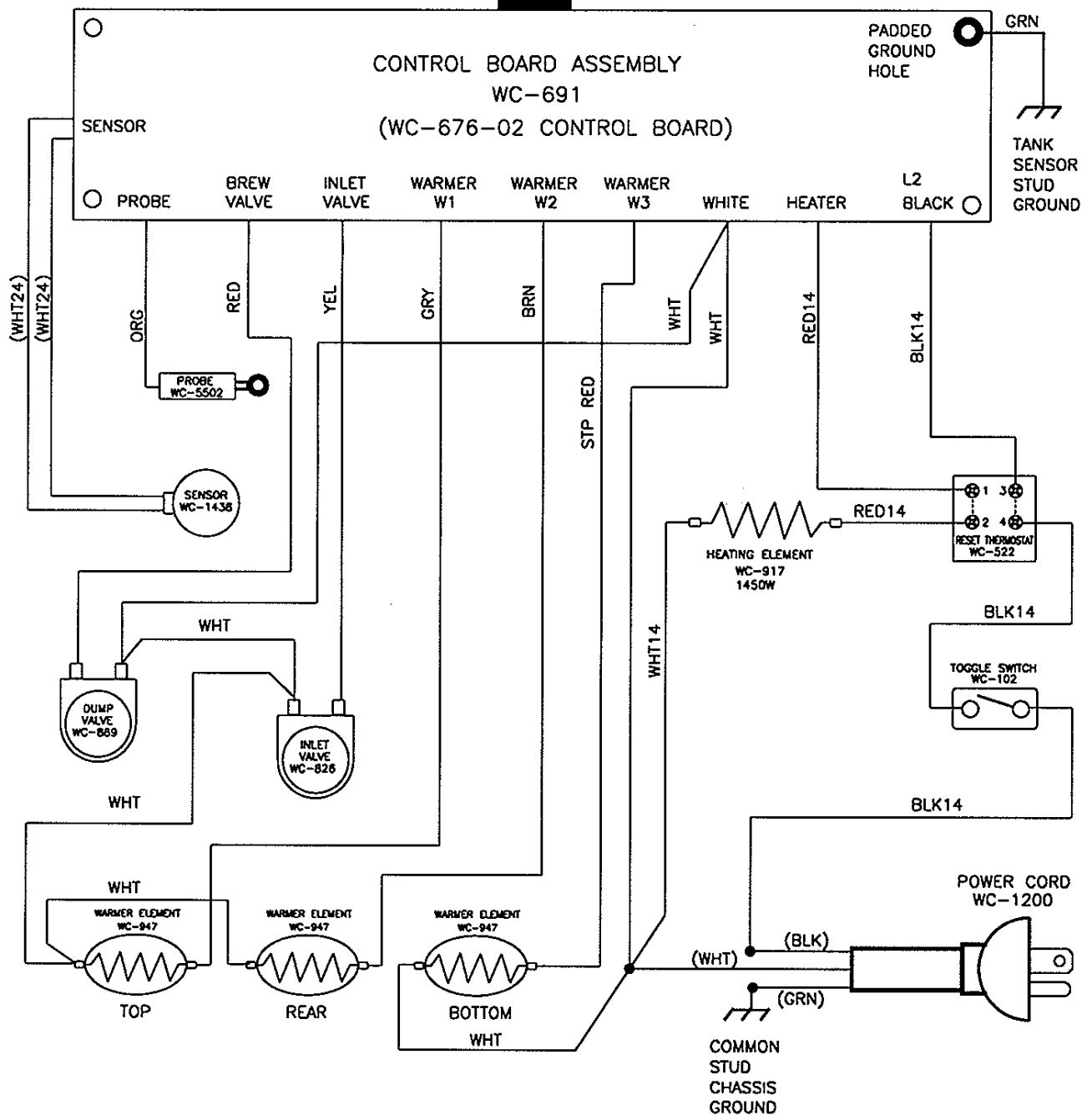
MEMBRANE CONTROL PANEL
WC-39174



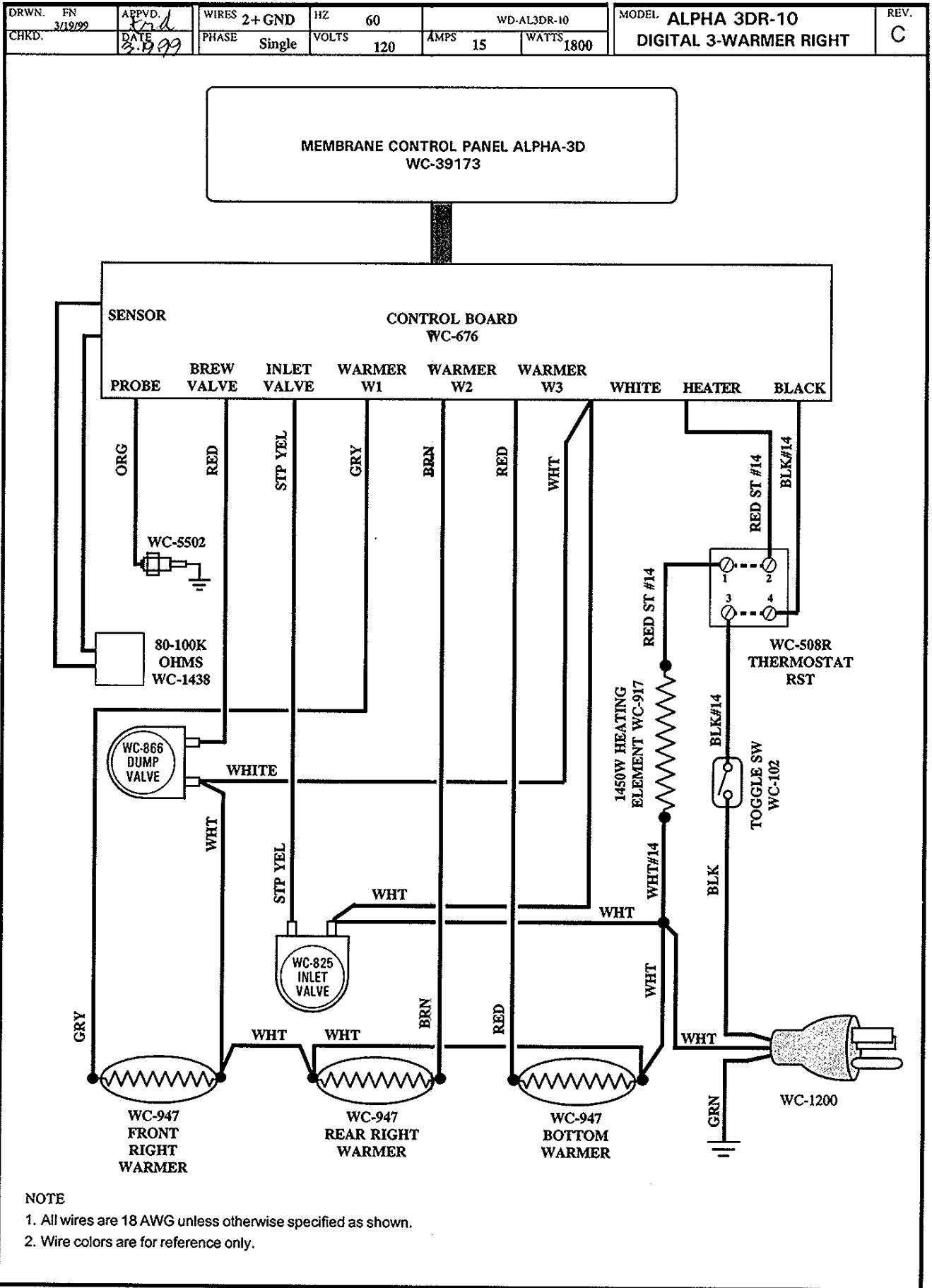
- 6 UL REQUIRES SEPARATE ROUTING FROM THE MAIN HARNESS ASSEMBLY ROUTING. SUPPORT AND SECURE.
 - 5 USE THIS DIAGRAM FOR ALL OTHER MODELS WITH ADDED PREFIX LETTERS AND/OR DIFFERENT DASH NUMBER ON THEIR PART NUMBERS HAVING THE SAME ELECTRICAL RATINGS. Ex.: SCALP-2D-10 and/or ALP-2D-10-01.
 - 4 CONTROL BOARD ASSEMBLY WITH SUFFIX 'X' ON PART NO. REPRESENTS THE REVISION LEVEL. EX: WC-691J IS J REVISION.
 - 3 INSTALL GROUND LUG OVER THE SENSOR ON TANK SENSOR STUD.
 - 2 DO NOT CHANGE NOR SUBSTITUTE WIRE COLORS.
 - 1 ALL WIRES SHALL BE 22AWG TEFLON PER UL1330
- NOTES: UNLESS OTHERWISE SPECIFIED

DIAGRAM NO. WD-AL3D-10	PART NO. ALPHA-3D-10 3-STA DIGITAL COFFEE BREWER	WIRES 2+GND PHASE SINGLE	CYCLE 60 VOLTAGE 120	WATTAGE 1800 AMPERAGE 15	DRAWN BY: MDD DATE: 6/16/99	APPROVED: <i>Arduwe</i> DATE: 6.21.99	FOR/ECH. NO. 2924	REV D
---------------------------	---	-----------------------------------	-------------------------------	-----------------------------------	--------------------------------------	--	----------------------	----------

MEMBRANE CONTROL PANEL
ALPHA-3D
WC-39173

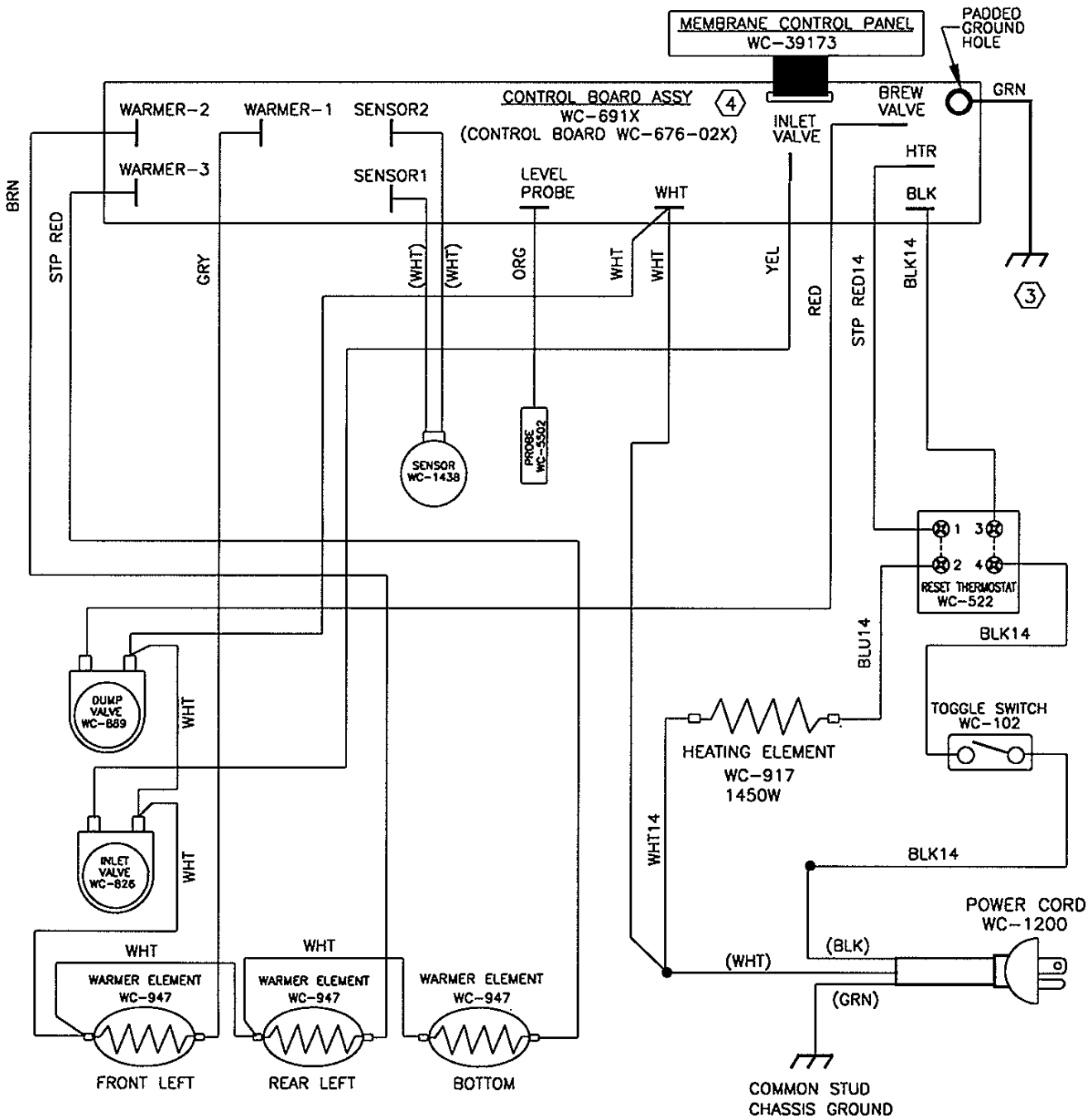


- 2. DO NOT CHANGE WIRE COLORS.
 - 1. ALL WIRES SHALL BE 22 AWG TEFLON.
- NOTE: UNLESS OTHERWISE SPECIFIED



5

DIAGRAM NO. WD-AL3DL-10	PART NO. ALPHA-3DL-10 3-STA WMR LEFT COFFEE BREWER	WIRES 2+GND PHASE SINGLE	CYCLE 60 VOLTAGE 120	WATTAGE 1800 AMPERAGE 15	DRAWN BY: MOD DATE: 7/6/99	CHECKED BY: <i>Blower</i> DATE: 10.28.99	APPROVED: <i>WJH</i> DATE: 11.1.99	EDR/ECH NO. 3279	REV: D
----------------------------	---	-----------------------------------	-------------------------------	-----------------------------------	-------------------------------------	---	---	---------------------	-----------



5 USE THIS DIAGRAM FOR ALL OTHER MODELS WITH ADDED PREFIX LETTERS AND/OR DIFFERENT DASH NUMBER ON THEIR PART NUMBERS HAVING THE SAME ELECTRICAL RATINGS. Ex.: SCALPHA-3DL-10 and/or ALPHA-3DL-12-01.

4 SUFFIX 'X' DENOTES REVISION LEVEL OF CONTROL BOARD.

3 INSTALL GROUND LUG OVER THE SENSOR ON TANK SENSOR STUD.

2 DO NOT CHANGE NOR SUBSTITUTE WIRE COLORS.

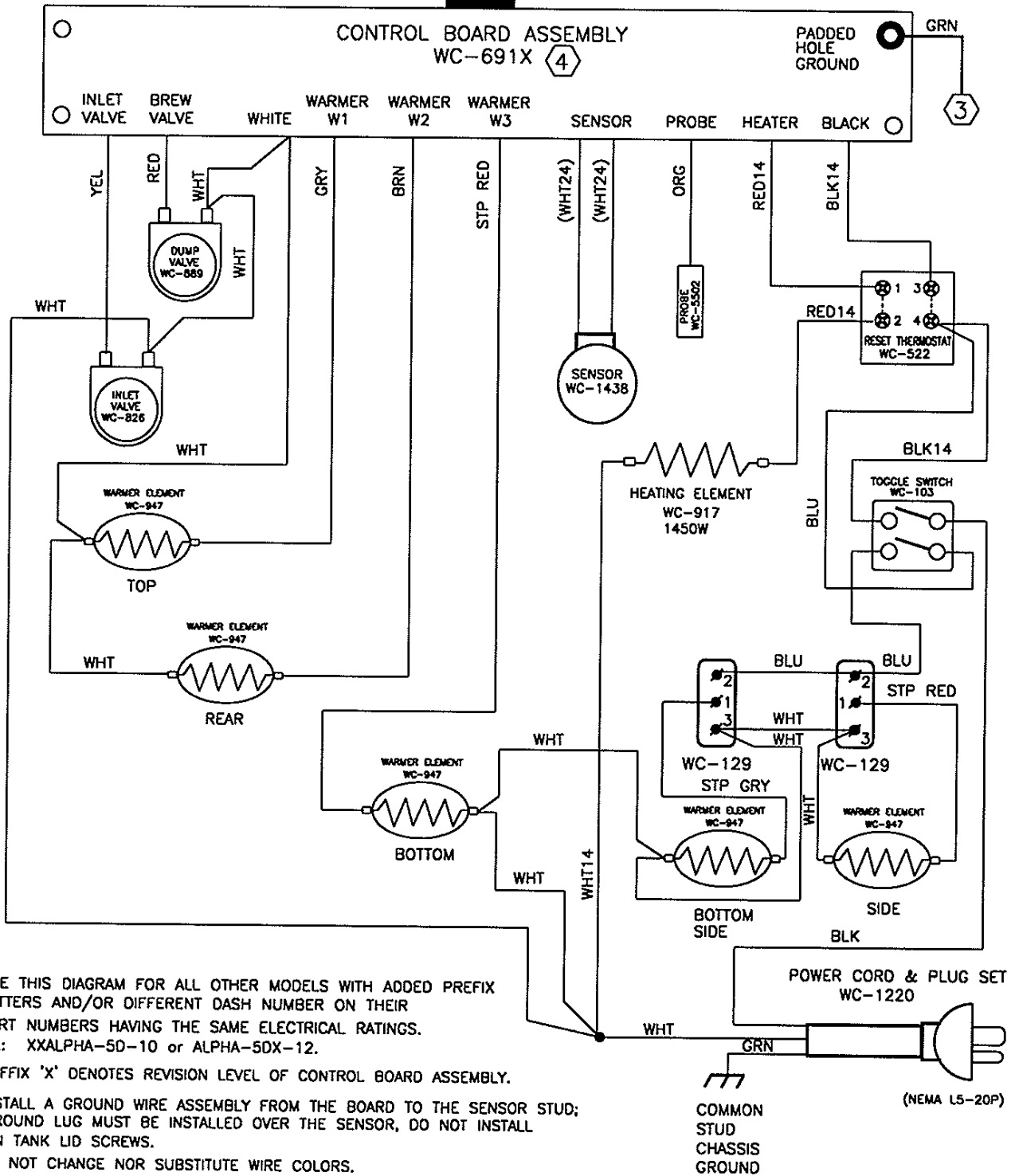
1 ALL WIRES SHALL BE 18AWG UL APPROVED APPLIANCE WIRE.

NOTE: UNLESS OTHERWISE SPECIFIED

5

DIAGRAM NO. WD-AL5D-10	PART NO. ALPHA-5D-10 5-STA DECANTER COFFEE BREWER	WIRES 2+GND PHASE SINGLE	CYCLE 60 VOLTAGE 120	WATTAGE 1950 AMPERAGE 16	DRAWN BY: MDD DATE: 11/15/99	CHECKED BY: <i>Agustin</i> DATE: 11.15.99	APPROVED: <i>And</i> DATE: 11.15.99	ECN NO. 3327	REV D
---------------------------	--	-----------------------------------	-------------------------------	-----------------------------------	---------------------------------------	--	--	-----------------	----------

MEMBRANE CONTROL PANEL
ALPHA-3D
WC-39173



⑤ USE THIS DIAGRAM FOR ALL OTHER MODELS WITH ADDED PREFIX LETTERS AND/OR DIFFERENT DASH NUMBER ON THEIR PART NUMBERS HAVING THE SAME ELECTRICAL RATINGS. Ex.: XXALPHA-5D-10 or ALPHA-5DX-12.

④ SUFFIX 'X' DENOTES REVISION LEVEL OF CONTROL BOARD ASSEMBLY.

③ INSTALL A GROUND WIRE ASSEMBLY FROM THE BOARD TO THE SENSOR STUD; GROUND LUG MUST BE INSTALLED OVER THE SENSOR, DO NOT INSTALL ON TANK LID SCREWS.

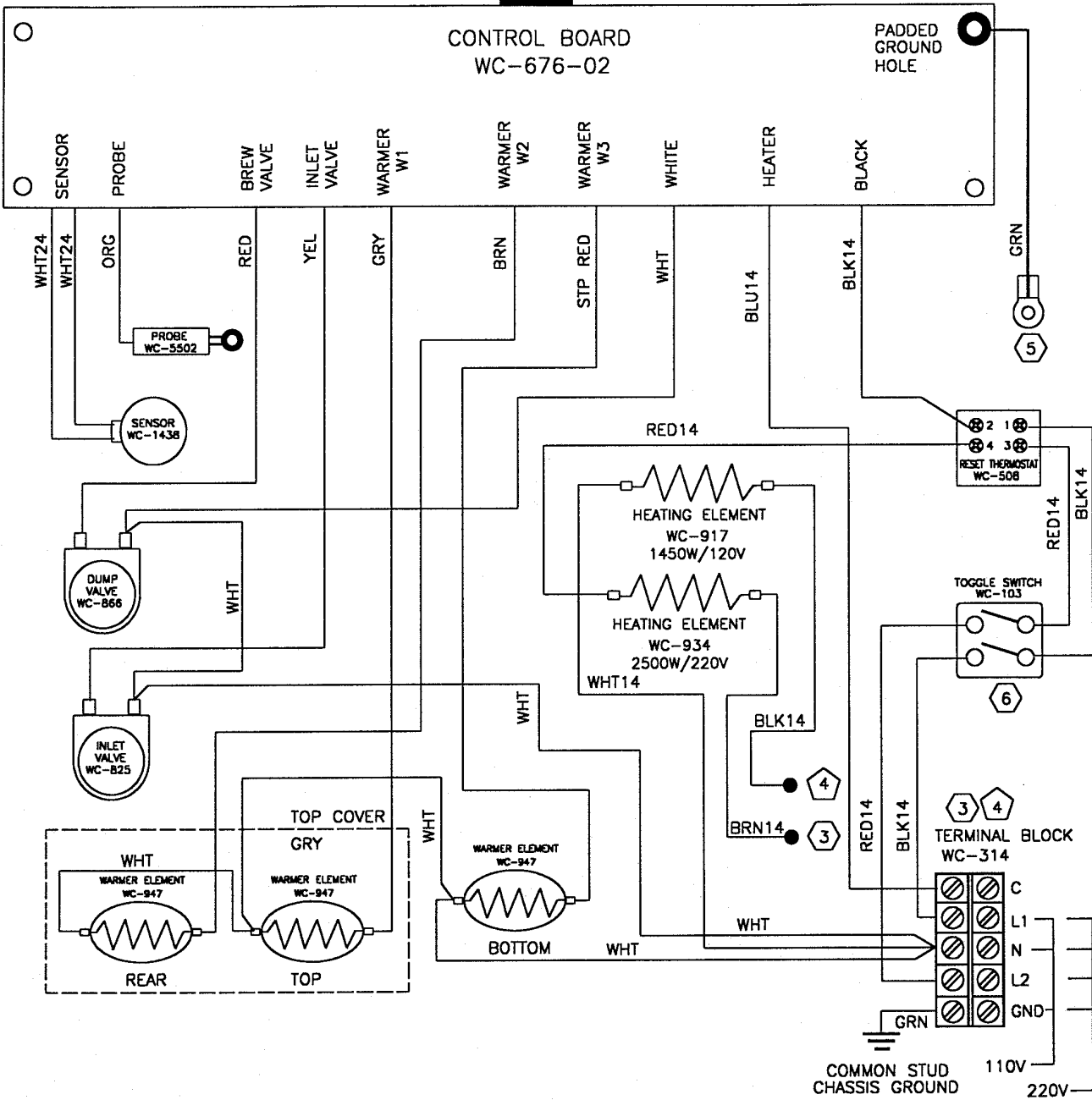
2 DO NOT CHANGE NOR SUBSTITUTE WIRE COLORS.

1 ALL WIRES SHALL BE 22 AWG TEFLON PER UL1330

NOTES: UNLESS OTHERWISE SPECIFIED

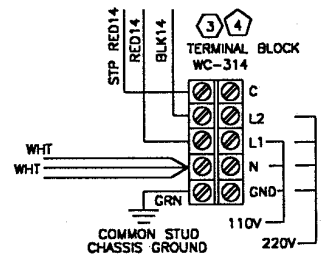
DIAGRAM NO. WD-AL3D-61/63	PART NO. ALPHA-3D-61 and -63 DUAL POWER	WIRES 3+GND	CYCLE 60	WATTAGE 1800/2500	DRAWN BY: EMDI	APPROVED: <i>MDW</i>	EDR/ECN NO. 2268	REV J
		PHASE SINGLE	VOLTAGE 120/220	AMPERAGE 15/13	DATE: 8/28/98	DATE: 10-15-98		

**MEMBRANE CONTROL PANEL
WC-39173**



- ⑥ USE SWITCH GUARD P/N: WC-3249 AS REQUIRED BY UL.
- ⑤ INSTALL A GROUND WIRE ASSEMBLY FROM THE BOARD TO THE SENSOR STUD; GROUND LUG MUST BE INSTALLED OVER THE SENSOR. DO NOT INSTALL ON TANK LID SCREWS.
- ④ FOR 110V: CONNECT BLK14 TO POINT 'C' ON TERMINAL BLOCK WC-314 AND CAP BRN14.
- ③ FOR 220V: CONNECT BRN14 TO POINT 'C' ON TERMINAL BLOCK WC-314 AND CAP BLK14.
- 2 WIRE COLORS REFERENCED MAY BE CHANGED IN PRODUCTION, NOTIFY ENGINEERING FOR CHANGE APPROVAL.
- 1. ALL WIRES SHALL BE TEFLON PER UL1330, 22 AWG WILL BE MINIMUM.

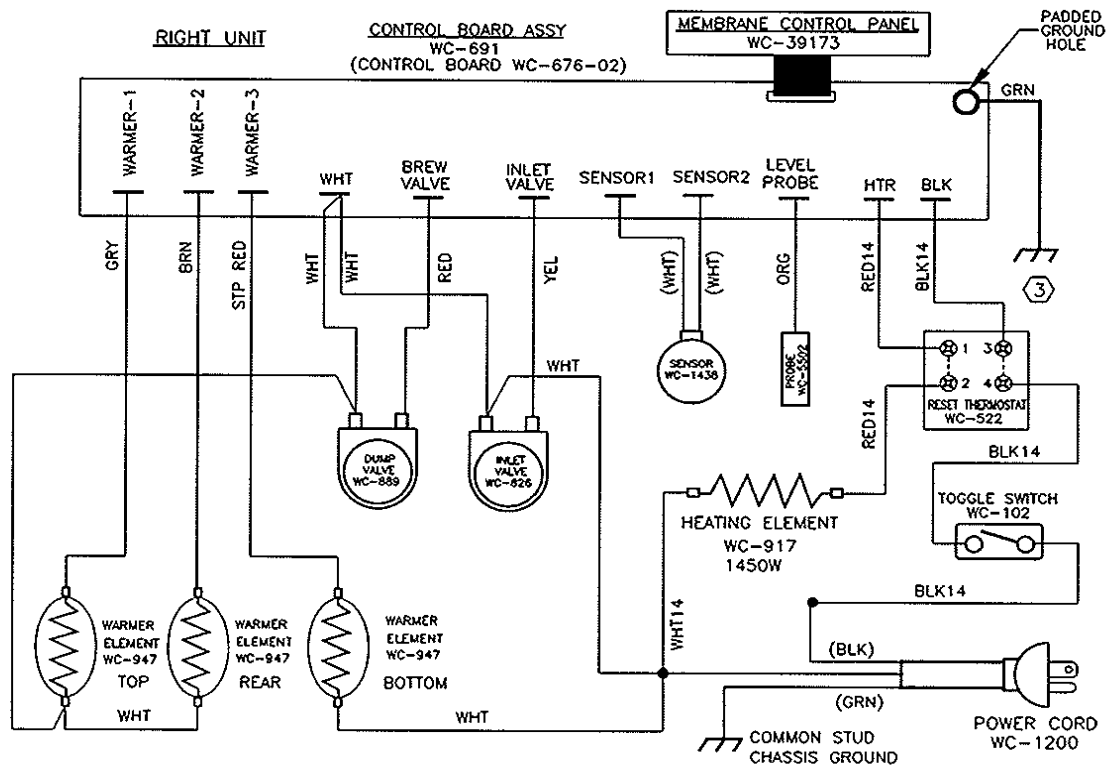
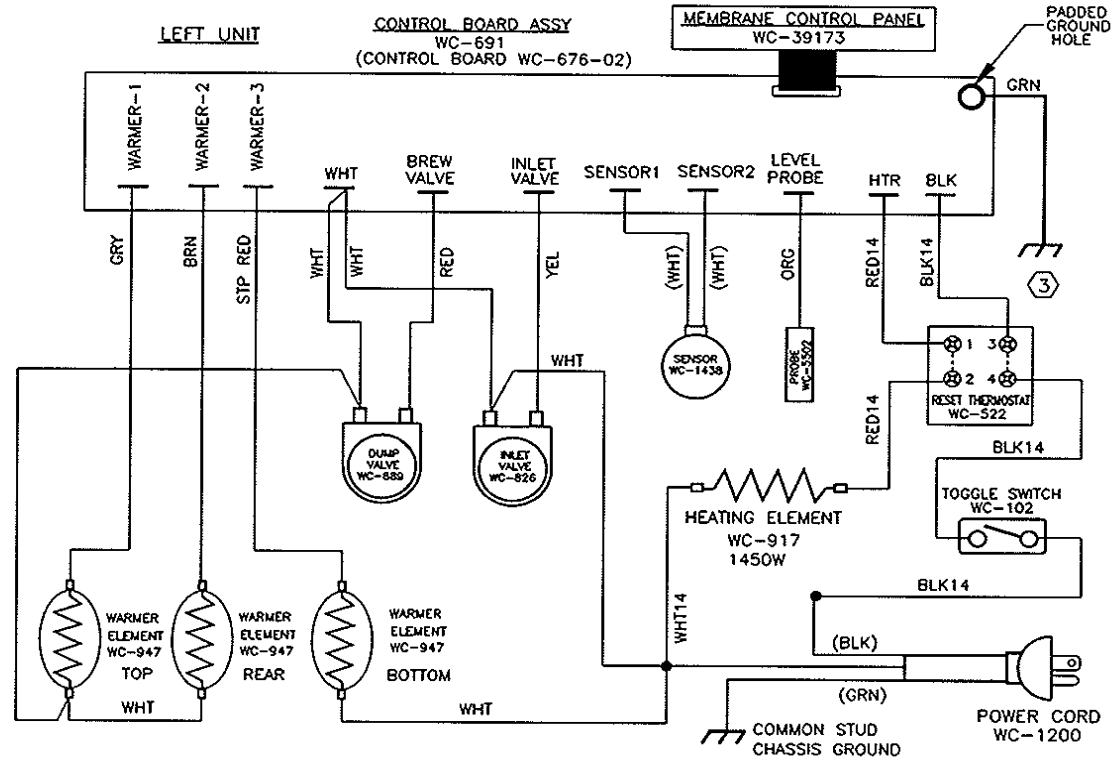
NOTE: UNLESS OTHERWISE SPECIFIED



FOR REF: Old Revision TO 'D'

4

DIAGRAM NO. WD-AL6D-10	PART NO. ALPHA-6D-10 6-STA DIGITAL COFFEE BREWER	MRES 2+GND	CYCLE 60	WATTAGE 1800	DRAWN BY EMDI	CHECKED BY <i>Wm</i>	APP. NO. DATE <i>7/26/00</i>	EDR/ECH. NO. 3789	REV. G
		PHASE SINGLE F	VOLTAGE 120	AMPERAGE 15	DATE 6/24/97				

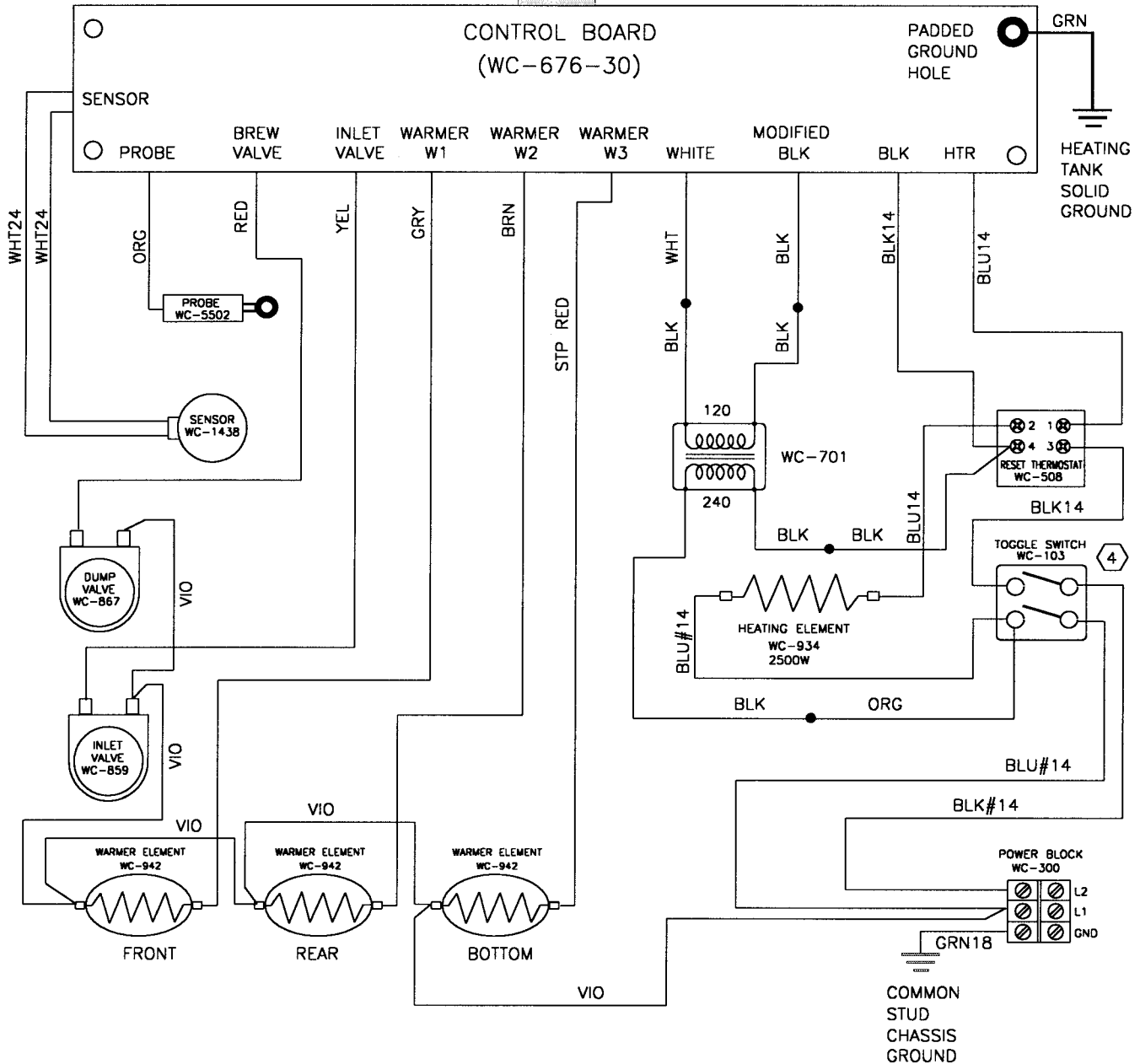


- ④ USE THIS DIAGRAM FOR ALL OTHER MODELS WITH ADDED PREFIX LETTERS AND/OR DIFFERENT DASH NUMBER ON THEIR PART NUMBERS HAVING THE SAME ELECTRICAL RATINGS. Ex.: SCALPHA-6DL-10 and/or ALPHA-6DL-12-01.
- ③ INSTALL GROUND LUG OVER THE SENSOR ON TANK SENSOR STUD.
- 2 DO NOT CHANGE NOR SUBSTITUTE WIRE COLORS.
- 1 ALL WIRES SHALL BE 18AWG UL APPROVED APPLIANCE WIRE.

NOTE: UNLESS OTHERWISE SPECIFIED

DIAGRAM NO. WD-AL3DR-30	PART NO. ALPHA-3DR-30 3-STA DECANter COFFEE BREWER	WIRES 2+GND PHASE SINGLE	CYCLE 60 VOLTAGE 220	WATTAGE 2900 AMPERAGE 13	DRAWN BY: EMDI DATE: 3/25/98	CHECKED BY: MDD DATE: 3/25/98	APPROVED: DATE:	EOR NO. 1161	REV NC
----------------------------	---	-----------------------------------	-------------------------------	-----------------------------------	---------------------------------------	--	--------------------	-----------------	-----------

MEMBRANE CONTROL PANEL
WC-39173



④ USE NKK TOGGLE SWITCH P/N S331F.

3. INSTALL GROUND ASSEMBLY BETWEEN CONTROL BOARD & HEATING TANK.

2. COLORS ARE FOR REFERENCE ONLY.

1. ALL WIRES SHALL BE 22 AWG TEFLON.

NOTE: UNLESS OTHERWISE SPECIFIED

Product Warranty Information

The Wilbur Curtis Company certifies that its products are free from defects in material and workmanship under normal use. The following limited warranties and conditions apply:

- 3 Years, Parts and Labor, from Original Date of Purchase on digital control boards.
- 2 Years, Parts, from Original Date of Purchase on all other electrical components, fittings and tubing.
- 1 Year, Labor, from Original Date of Purchase on all electrical components, fittings and tubing.

Additionally, the Wilbur Curtis Company warrants its Grinding Burrs for Forty (40) months from date of purchase or 40,000 pounds of coffee, whichever comes first. Stainless Steel components are warranted for two (2) years from date of purchase against leaking or pitting and replacement parts are warranted for ninety (90) days from date of purchase or for the remainder of the limited warranty period of the equipment in which the component is installed.

All in-warranty service calls must have prior authorization. For Authorization, call the Technical Support Department at 1-800-995-0417. Effective date of this policy is April 1, 2003.

Additional conditions may apply. Go to www.wilburcurtis.com to view the full product warranty information.

CONDITIONS & EXCEPTIONS

The warranty covers original equipment at time of purchase only. The Wilbur Curtis Company, Inc., assumes no responsibility for substitute replacement parts installed on Curtis equipment that have not been purchased from the Wilbur Curtis Company, Inc. The Wilbur Curtis Company will not accept any responsibility if the following conditions are not met. The warranty does not cover and is void under the following circumstances:

- 1) **Improper operation of equipment:** *The equipment must be used for its designed and intended purpose and function.*
- 2) **Improper installation of equipment:** *This equipment must be installed by a professional technician and must comply with all local electrical, mechanical and plumbing codes.*
- 3) **Improper voltage:** *Equipment must be installed at the voltage stated on the serial plate supplied with this equipment.*
- 4) **Improper water supply:** *This includes, but is not limited to, excessive or low water pressure, and inadequate or fluctuating water flow rate.*
- 5) **Adjustments and cleaning:** *The resetting of safety thermostats and circuit breakers, programming and temperature adjustments are the responsibility of the equipment owner. The owner is responsible for proper cleaning and regular maintenance of this equipment.*
- 6) **Damaged in transit:** *Equipment damaged in transit is the responsibility of the freight company and a claim should be made with the carrier.*
- 7) **Abuse or neglect (including failure to periodically clean or remove lime accumulations):** *Manufacturer is not responsible for variation in equipment operation due to excessive lime or local water conditions. The equipment must be maintained according to the manufacturer's recommendations.*
- 8) **Replacement of items subject to normal use and wear:** *This shall include, but is not limited to, light bulbs, shear disks, "O" rings, gaskets, silicone tube, canister assemblies, whipper chambers and plates, mixing bowls, agitation assemblies and whipper propellers.*
- 9) **Repairs and/or Replacements** *are subject to our decision that the workmanship or parts were faulty and the defects showed up under normal use. All labor shall be performed during regular working hours. Overtime charges are the responsibility of the owner. Charges incurred by delays, waiting time, or operating restrictions that hinder the service technician's ability to perform service is the responsibility of the owner of the equipment. This includes institutional and correctional facilities. The Wilbur Curtis Company will allow up to 100 miles, round trip, per in-warranty service call.*

RETURN MERCHANDISE AUTHORIZATION: *All claims under this warranty must be submitted to the Wilbur Curtis Company Technical Support Department prior to performing any repair work or return of this equipment to the factory. All returned equipment must be repackaged properly in the original carton. No units will be accepted if they are damaged in transit due to improper packaging. **NO UNITS OR PARTS WILL BE ACCEPTED WITHOUT A RETURN MERCHANDISE AUTHORIZATION (RMA). RMA NUMBER MUST BE MARKED ON THE CARTON OR SHIPPING LABEL.** All in-warranty service calls must be performed by an authorized service agent. Call the Wilbur Curtis Technical Support Department to find an agent near you.*



WILBUR CURTIS CO., INC.

6913 Acco St., Montebello, CA 90640 ♦ Web Site: www.wilburcurtis.com ♦ Customer Service Tel: 800/421-6150
♦ Technical Service Tel: 800/995-0417 ♦ E-Mail: techsupport@wilburcurtis.com