Installation Instructions
Service & Warranty Information

ADVANCED DIGITAL SYSTEM ™

Revised: Jan. 2009

MODELS INCLUDED
- GEM-12D



GEMINI® DIGITAL COFFEE BREWING SYSTEMS

ISO 9001 REGISTERED

WILBUR CURTIS COMPANY • MONTEBELLO, CA USA

TABLE OF CONTENTS

Safeguards/Conventions....2
Contents & Unpacking....3
Quick Start and Set-up....4
Brewing Instructions....5
Bypass Operation & Adjustment....6
Hot Water Dispensing....6
Coffee Requirements....6
Programming....7-9
Care & Maintenance....10
Troubleshooting Guide....11-12
High Temperature Thermostat....12
Rough-In Drawings....13
Electrical Schematics....14-15
Parts Diagrams....16
Parts List....17
Satellites & Warmer Stands....18-19
Warranty....20

IMPORTANT SAFEGUARDS/ CONVENTIONS

IMPORTANT SAFEGUARDS/CONVENTIONS

This appliance is designed for commercial use. Any servicing other than cleaning and maintenance should be performed by an authorized Wilbur Curtis service center.

- *Do NOT immerse the unit in water or any other liquid*
- *To reduce the risk of fire or electric shock, do NOT open up top or remove base. No user serviceable parts are located inside. Repair should be done only by authorized service personnel.*
- *Keep hands and other items away from hot parts of the appliance during operation.*
- *Never clean with scouring powders or abrasive cleaning tools.*

CONVENTIONS



WARNINGS – TO HELP AVOID PERSONAL INJURY



IMPORTANT NOTES/CAUTIONS – FROM THE FACTORY



SANITATION REQUIREMENTS

CONTENTS AND UNPACKING

SHIPPING CARTON CONTENTS & UNPACKING

UNPACKING

All products manufactured by the Wilbur Curtis Company are thoroughly inspected at the factory, and are warrantied to be free of all defects and faulty workmanship. These brewers are packaged for maximum protection during 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.

STANDARD ITEMS

GEM-12D	Item	Part Nº
1	Brewer	GEM-12D
2	Std Brew Cone Assembly (Brew cone and wire basket)	WC-3357
4	Adjustable Legs (4”)	WC-3528
2	Satellite Server w/Lid	GEM-3
1	3/8” Male x 3/8” Elbow	WC-2402
2	“S” Faucet, Self Closing	WC-1800
70	Paper Filters	GEM-6
1	Service Manual	F-3191

QUICK START & SET-UP

Your Curtis ADS System is Factory Pre-Set and Ready to Go… Right from the Carton.

Following are the Factory Settings for your GEMINI® Coffee Brewing System:

- *Brew Temperature = 200°F*
- *Brew Volume = Set to dispensing vessel requirements (36 - 5 oz. Cups)*
- *Water Bypass = ON*
- *Sleep Mode = OFF*

Generally there will never be a reason to change your ADS programming. However, should you need to make slight adjustments to meet your brewing needs, programming instructions are provided later in this manual.

SYSTEM REQUIREMENTS

WARNING: To avoid electrical shock this brewing system must be properly grounded.

- *Water Source*
  20 – 100PSI (Minimum Flow Rate of 1 GPM)

CAUTION: DO NOT connect this brewer to hot water. The inlet valve is not rated for hot water.

- *Electrical*
  See attached schematic for your model

This equipment is to be installed to comply with the applicable federal, state, or local plumbing and electrical codes having jurisdiction.

SETUP STEPS

IMPORTANT: Your ADS System is "PLUG and BREW" Ready. There is no need to manually fill the water tank or change the factory program.

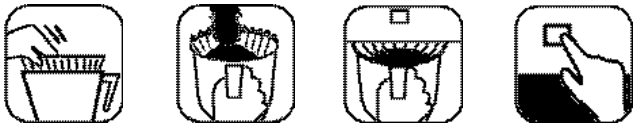
The unit should be level (left to right and front to back), located on a solid counter top. Connect a water line from the water filter to the brewer. NOTE: Some type of water filtration device must be used to maintain a trouble-free operation. (In areas with extremely hard water, we suggest that a sedimentary and taste & odor filter be installed.) This will prolong the life of your brewing system and enhance coffee quality. The top back panel of the brewer has two 8-32 x 3/8" screws to facilitate mounting the filter.

The National Sanitation Foundation requires the following water connection:

1. A quick disconnect or additional coiled tubing (at least 2x the depth of the unit) so that the machine can be moved for cleaning underneath.
2. In some areas an approved backflow prevention device may be required between the brewer and the water supply. (Check local plumbing codes)

1. *A 3/8" NPT x 3/8" compression elbow has been supplied for water line connection. Use tubing sized sufficiently to provide a minimum of 1.0 GPM.*
2. *Connect the unit to an appropriate electrical power circuit.*
3. *Turn on the toggle (STANDBY/ON) switch behind the unit. The heating tank will start to fill. When the water level in the tank rises to the correct volume, the heating elements will energize automatically. With ADS Systems there is no danger of element burnout caused by an empty tank.*
4. *The heating tank will require 20 to 30 minutes to reach operating temperature (200°F) as indicated by the READY-TO-BREW indicator.*
5. *Prior to brewing, dispense 12 ounces of hot water through the hot water faucet.*
6. *Run brew cycles of at least 12 ounces, per brew head, to purge the water lines of any air that may be trapped after filling.*

BREWING INSTRUCTIONS

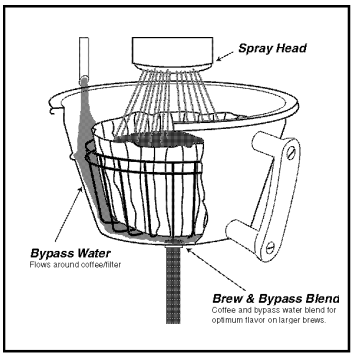


WARNING: To avoid scalding, do NOT remove brew cone while brew indicator light is flashing.

1. *Brewer should be ON (Confirm Rear Toggle Switch is on, then Press ON/OFF Button)*
2. *Place an empty Satellite on the brewer deck.*
3. *Place Filter and Ground Coffee in Brew Cone. Position into brew rails.*
4. *Press the desired BREW BUTTON. Brewing will begin immediately. (If Recovery Light is ON, Brew Light will blink and brewing will begin when the correct temperature is reached.)*

IMPORTANT: To STOP a brew cycle on either side, push and hold the Brew Button for three [3] seconds. This will cancel the individual brew cycle. To stop all brewing (both sides), PUSH the ON/OFF button.

BYPASS OPERATION AND ADJUSTMENT



The Bypass allows for brew temperature water to bypass the brew cone and enter the satellite (see illus.) The factory setting has bypass open.

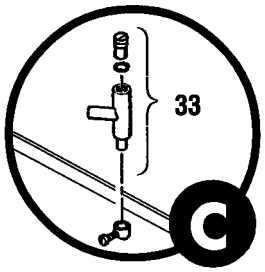
IMPORTANT Bypass use should always be determined BEFORE setting Brew Volume.

INCREASING/DECREASING BYPASS FLOW

The 36 cup brew cycle has a factory set Bypass of approximately 35%. To change the percentage of Bypass, you must adjust the Bypass fitting as indicted (see illus).*

BYPASS FLOW ADJUSTMENT

1. *Slide brew cone out to expose bypass outlet. Place one measuring cup under the bypass fitting, and another measuring cup under the brew cone outlet. Press the brew button for 15 seconds, then press the ON/OFF button to stop the brew cycle.*
2. *Divide the number of ounces collected from the bypass outlet into the total ounces collected from the sprayhead and bypass. This will determine the percentage of bypass.*
3. *To increase or decrease the volume of bypass water, turn the adjustment screw on the bypass fitting as indicated. Clockwise for less water; counterclockwise for more water.*
4. *You must reprogram the brew volume to maintain the proper total amount of coffee brewed into the insulated server. Reprogramming is required every time you make a bypass adjustment or change to a different sprayhead.*



HOT WATER DISPENSING

The hot water spout lets you draw piping hot water for tea, soups, and other profitable "instants" anytime. Simply press the HOT WATER switch on the upper front panel and hold it down. Hot water is dispensed through the hot water spout centered on the lower front panel. Releasing the switch will stop the flow of hot water.

IMPORTANT Dispense a maximum of 32 ozs. of hot water continuously, then release the button. This action allows the unit to recover for additional dispensing.

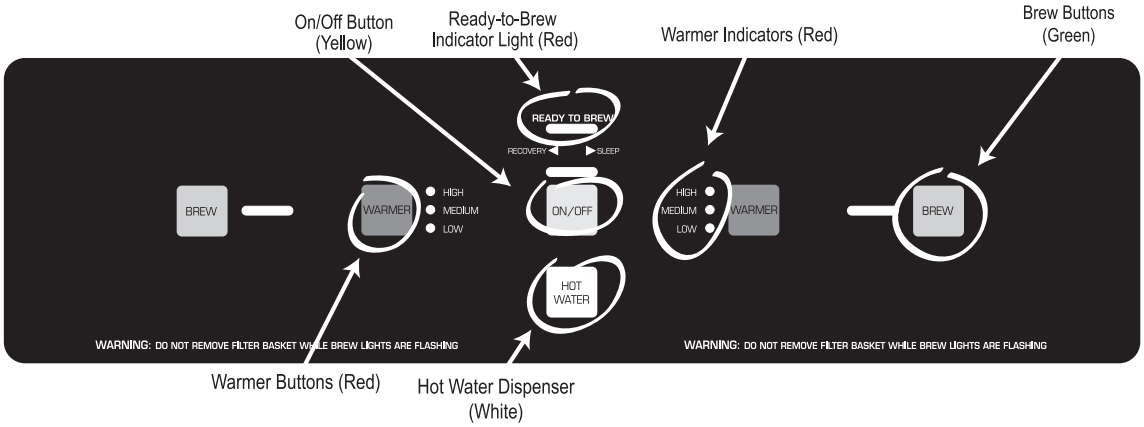
COFFEE REQUIREMENTS

Curtis ADS Systems are designed to brew any type of ground coffee except instant or concentrated liquid coffee. Because so many different types of coffee are available today, you should consult your coffee supplier for quality and quantity guidelines.

STEPS TO PROGRAMMING

REMEMBER… YOUR CURTIS ADS SYSTEM HAS BEEN FACTORY PRE-SET FOR OPTIMUM PERFORMANCE. GENERALLY THERE WILL NOT BE A NEED TO CHANGE PROGRAMMING.

In order to change programming you must first confirm that the Sleep Mode is DISABLED. (p8)



WARNING: These steps will involve working with hot water. Scalding may occur if care is not taken against spilling.

CHANGING THE ADS™ SYSTEM PROGRAM

Your ADS System features a dynamic memory. In the event of a power loss it will remember ALL program settings (except Quality Timer).

IMPORTANT – Place an empty container on the warmer deck. Before entering the program mode, allow the unit to reach brewing temperature, then press one of the BREW buttons on each side to dispense at least 12 ounces of water. This is to clear any air that may be trapped within the water lines.

BREW TEMPERATURE – FACTORY PRE-SET TO 200°F

This programming function allows you to set brew temperature from 170° to 204°F. Brew temperature will be indicated by the READY-TO-BREW light blinking. (see chart) Simply follow the steps indicated.

ENTERING THE PROGRAM MODE

For ALL Functions you must first enter the programming mode.

- *Turn OFF the power from the Control Panel by pressing* ON/OFF.
- *Press and HOLD* BREW *and Press and RELEASE* ON/OFF.

MODE #1

- *Continue HOLDING* BREW *until* READY TO BREW *STARTS blinking; RELEASE.*

CONFIRM/RESET BREW TEMPERATURE – Factory Preset to 200F

Enter the Programming Mode #1:

- *Press* BREW *for two seconds; then RELEASE.*
- READY TO BREW *will start blinking. Each blink = 2F starting at 170 . (Max. temp. 204F – 18 blinks).*
- *To CHANGE TEMPERATURE Press and HOLD* BREW.
- READY TO BREW *will start QUICK Flashing. Each QUICK Flash = Adds 2. After reaching 204 temp starts over at 170 .*
- *RELEASE* BREW *when the desired temperature is reached. The newly set temperature will now be displayed. To set and exit press* ON/OFF.

TEMPERATURE TABLE

No. of Blinks	Temperature	No. of Blinks	Temperature	No. of Blinks	Temperature
1	170°F	7	182°F	13	194°F
2	172°F	8	184°F	14	196°F
3	174°F	9	186°F	15	198°F
4	176°F	10	188°F	16	200°F*
5	178°F	11	190°F	17	202°F
6	180°F	12	192°F	18	204°F

*Factory Setting

BREW VOLUME – Factory Pre-Set to Brewer Requirements

You can quickly change the brew volume of your ADS System by following these steps.

Determine Bypass setting BEFORE adjusting brew volume. (See Page 8). Volume should be set to NO greater than 1" BELOW the TOP Lip of the satellite or server. Less than 1" below the top lip can cause an overflow condition.

ENTERING THE PROGRAM MODE

For ALL Functions you must first enter the programming mode.

- *Turn OFF the power from the Control Panel by pressing* ON/OFF.
- *Press and HOLD* BREW *and Press and RELEASE* ON/OFF.

MODE #1

- *Continue HOLDING* BREW *until* READY TO BREW *STARTS blinking; RELEASE.*

CHANGE BREW VOLUME – Factory Preset to Brewer Requirements

Enter the Programming Mode #1: (CAUTION: Be sure to have brew cone and vessel in position.)

- *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.

BREW CYCLE COUNTER

This function allows you to see exactly how many brew cycles occurred on the system. It's ideal for preventative maintenance programs (i.e., changing of water filters, etc.) and determining profitability. To view the number of cycles follow these steps:

CYCLE EXAMPLE

SETS	PATTERN	COUNT	FACTOR	TOTAL
1st	— • • • •	4	1's	4
2nd	— • •	2	10's	20
3rd	—	0	100's	0
4th	— •	1	1,000's	1,000
5th	—	0	10,000's	0
			TOTAL BREWS	1,024

ENTERING THE PROGRAM MODE

For ALL Functions you must first enter the programming mode.

- *Turn OFF the power from the Control Panel by pressing* ON/OFF.
- *Press and HOLD* BREW *and Press and RELEASE* ON/OFF.

MODE #2

- *Continue HOLDING* BREW *until* READY TO BREW *STOPS blinking; RELEASE.*

TO ACCESS PREVENTATIVE MAINTENANCE BREW CYCLE COUNTER

Enter the Programming Mode #2:

- READY TO BREW *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.

SLEEP MODE – Factory Pre-Set to Disabled

Your Curtis ADS System features an energy saving SLEEP Mode. This function conserves energy by automatically placing the unit to sleep (reducing heating tank temperature to 140°F) when it is idle for more than 2 hours. When using SLEEP Mode normal expansion and contraction of water due to changes in temperature may cause your FIRST Brew after overnight recovery to be slightly greater. Subsequent brew cycles during regular operation will NOT experience additional volume.

To recover, simply press any BREW (or GRIND Selection if InterLocked) or ON/OFF button. (NOTE: When recovering by pressing BREW the green brew light will begin blinking, be sure to place the Brew Cone and Satellite in position. Once brew temperature is reached the brew cycle will automatically start.)

Recovery is indicated by a yellow light on the membrane. In a few minutes the tank will reach brew temperature setting as indicated by the READY-TO-BREW light. Recovering from SLEEP is faster and more efficient than heating from an OFF position.

SLEEP MODE – Factory Preset to DISABLED

To ENABLE Sleep Mode:

- *UNIT MUST BE ON. Press and HOLD* ON/OFF *until* ▶ SLEEP *light turns ON; Press* ON/OFF *again. Sleep Mode is now ENABLED.*

To DISABLE Sleep Mode:

- *UNIT MUST BE ON. Press and HOLD* ON/OFF *until* ▶ SLEEP *light turns OFF; Press* ON/OFF *again. Sleep Mode is now DISABLED.*

SATELLITE WARMERS

ADJUSTING THE TEMPERATURE

GEMINI Warmers feature three temperature settings. Warmers are rated at 90W with High (100%); Med (60%); Low (30%). Pressing the WARMER button once will place it on HIGH; a second time MED; third time LOW as indicated by the warmer lights. A fourth press of the button turns the warmer OFF.

When the system is turned off at the ON/OFF button, it will remember the last warmer setting. Additionally, if the warmer is OFF the GEMINI will automatically turn the warmer on (MED Setting) when the BREW button is pressed.



For optimum coffee quality, satellites should be pre-heated for 10 minutes prior to brewing.

WARMER QUALITY TIMER – Factory Set to DISABLED

GEMINI Systems feature a Quality Timer which will sound an alarm and the corresponding warmer light will blink advising you coffee should be replaced. Once the alarm sounds you can shut it off by pressing the WARMER button. The Quality Timer can be set from DISABLED (zero) to 200 minutes in 20 minute intervals.



NOTE: If Main Power is turned OFF or Rear Toggle Switch is switched to STANDBY, the Warmer Quality Timer must be re-programmed.

To set, follow these instructions:

WARMER QUALITY TIMER – Factory Preset to DISABLED

To Determine Warmer Setting and Change Time for GEMINI Systems:

- *WARMER MUST BE OFF. Press and* WARMER *HOLD until the light turns ON, then goes OFF; RELEASE.*
- *The light will start blinking. Count the* WARMER *blinks. Each blink = 20 minutes (maximum 200 min.).*
- *At the end of the cycle, Press and HOLD* WARMER *until the light begins QUICK Flashing. The cycle will start over after 11 Flashes. (NOTE: A setting of 11 Flashes is the DISABLED Position).*
- *When the desired time is reached, RELEASE .*
- *To set and exit press* ON/OFF *.*

CARE & MAINTENANCE

REGULAR AND PREVENTIVE MAINTENANCE IS ESSENTIAL IN KEEPING YOUR ADS SYSTEM LOOKING AND WORKING LIKE NEW.

– PREVENTIVE MAINTENANCE

1. *Remove spray head from the brewer and clean it weekly or more often in heavy lime areas.*
2. *Remove and Clean the Satellite faucet seat cups weekly. Replace if cracked or leaking.*
3. *Remove hot water spout aerator; clean it once a week.*
4. *Periodic De-Liming of Heat Tank may be necessary especially in areas with especially hard water. (Excessive Lime buildup in heat tank may void warranty.)*

> ⚠ CAUTION: Do not use cleansers, bleach, powders or any other substance that contains chlorine. These products promote corrosion and will pit the stainless steel. USE OF THESE PRODUCTS WILL VOID THE WARRANTY.

– CLEANING





A daily routine of cleaning should maintain its new appearance and insure the good flavor of the coffee.

1. *Wipe off any spills, dust or debris from the exterior surfaces.*
2. *Clean the outside of the brewer and satellite with stainless steel polish. Coarser agents may scratch the machine.*
3. *Clean and polish inside the Satellite with a SOFT scouring pad.*
4. *Slide out brew cone. Rinse thoroughly with clean water.*
5. *Remove the spray head and clean. Clean around the dome area, wiping with a nontoxic cleaner.*
6. *Clean the brew cone rails with a damp cloth or brush. Dry thoroughly with clean cloth.*

TROUBLE-SHOOTING GUIDE

ERROR CODES

Curtis ADS Digital Systems contain various safety features in the electronic circuitry that will shut down the functions of the unit in the event of system failures. Error codes are signalled by the red READY-TO-BREW light blinking.

INTERPRETING THE CODES

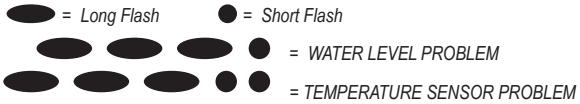
IMPORTANT: Error Codes are indicated by the red Ready-to-Brew light. If an Error Code occurs the unit will shut down all functions including heating, water inlet, water delivery. ALWAYS confirm Error Code THREE times.

ERROR CODES

ADS technology features a state-of-the-art Error Code System. This is designed to quickly advise you of any problems the system may experience expediting service or repair. Occasionally an error reported may be a problem with the water supply or electrical power, NOT directly associated with a fault of the Curtis System itself. An example of this includes:

- *Clogged Water Filter – Indicated by a Water Level Error Code*

Error Codes are indicated by  *blinking a pattern as follows:*



= *Long Flash* = *Short Flash*

= *WATER LEVEL PROBLEM*

= *TEMPERATURE SENSOR PROBLEM*

Error Codes can only be reset by turning the rear toggle switch to Standby for a minimum of 10 seconds, then returning the switch to ON. Any service required for your Curtis system must be performed by a qualified service technician.

SYMPTOM: WATER DOES NOT FLOW INTO HEATING TANK

Water Level ERROR CODE



POSSIBLE CAUSE	SOLUTION
1. Water line has been turned OFF	Turn ON Water Line; confirm unit is turned on and water is flowing into heating tank.
2. Insufficient Water Supply; Water Line Pinched	Straighten Water Line; confirm unit is turned on and water is flowing into heating tank.
3. Clogged Water Filter	Replace filter; confirm unit is turned on and water is flowing into heating tank.
4. Defective Inlet Valve	Contact Factory.
5. Grounded Probe	Contact Factory.
6. Defective Control Board	Contact Factory.

SYMPTOM: WATER HEATING TANK OVERFLOWING

Water Level ERROR CODE



POSSIBLE CAUSE	SOLUTION
7. Defective Water Inlet Valve.	Turn power off and observe tank water level. If water continues to flow Inlet Valve must be cleaned, rebuilt or replaced.
8. Limed-Up Probe	Clean and/or replace.
9. Non-grounded or loose terminal connections at control board or tank.	The control board must be securely grounded for proper operation. Check for loose connections at the terminals.
10. Defective Control Board	Contact Factory

SYMPTOM: WATER IN HEATING TANK DOES NOT GET HOT; WATER TEMPERATURE TOO LOW.

Temp Sensor ERROR CODE

IMPORTANT: Heating function may be SHUT DOWN due to Water Level Error Code.

POSSIBLE CAUSE	SOLUTION
11. Defective or Loose Heat Sensor	Make sure there is a layer of silicone paste (Part No. WC-5229) between the sensor and tank body. The fastening nut should be securely tightened, making a good connection. Check wire for damage.
12. Defective Heating Element	Contact Factory.
13. Defective Control Board	Contact Factory.

SYMPTOM: WATER NOT FLOWING FROM SPRAYHEAD

Water Level ERROR CODE

POSSIBLE CAUSE	*SOLUTION*
14. Obstructed Sprayhead	*Remove and inspect sprayhead. Clean and re-install.*
15. 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.*
16. Defective Dump Valve	*Contact Factory.*
17. Defective Control Board	*Contact Factory.*

SYMPTOM: WATER IN TANK OVERHEATING

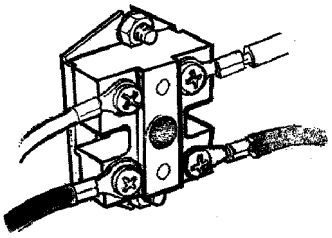
Temp Sensor

POSSIBLE CAUSE	*SOLUTION*
18. Temperature Set Too High for Elevation	*Re-program temperature lower.*
19. Loose Heat Sensor	*Contact Factory.*
20. Defective Triac	*Contact Factory.*
21. Defective Control Board	Contact Factory.

HIGH TEMP THERMOSTAT

HIGH TEMPERATURE RESET THERMOSTAT

The High Temperature Reset Thermostat protects the system by cutting off power in the event of an overheated condition. This may be caused by a low water level. When this occurs, heating elements may be exposed causing an excessively HOT condition. Power will be cut off by the high temperature thermostat as indicated by the reset button "popping out".



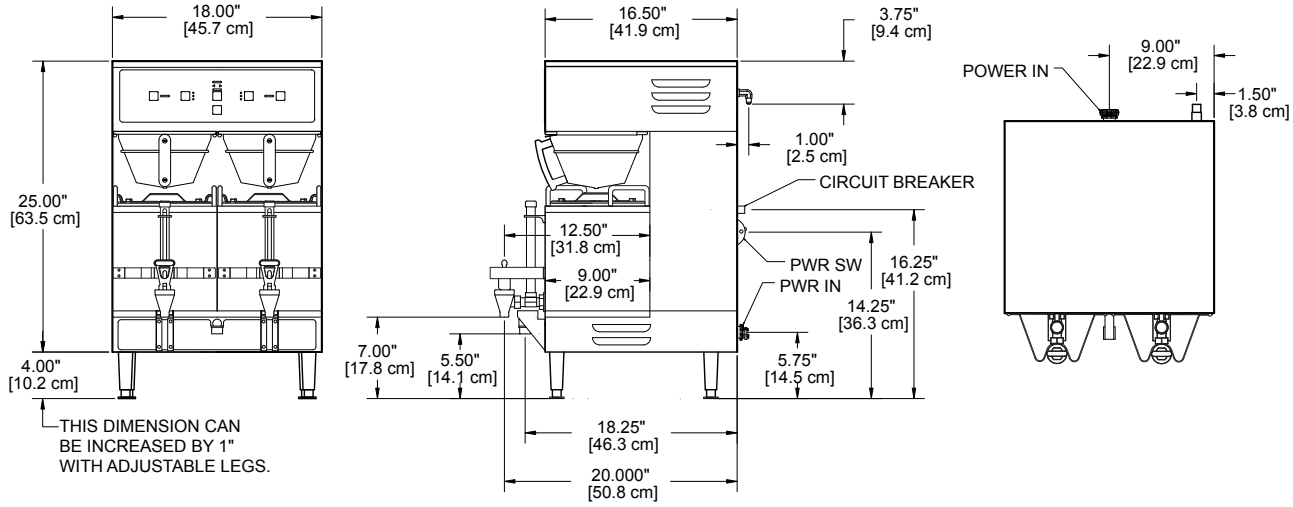
When the high temperature condition has been corrected, the thermostat can be re-set simply by pushing the red button.

The thermostat is located on the heating tank.

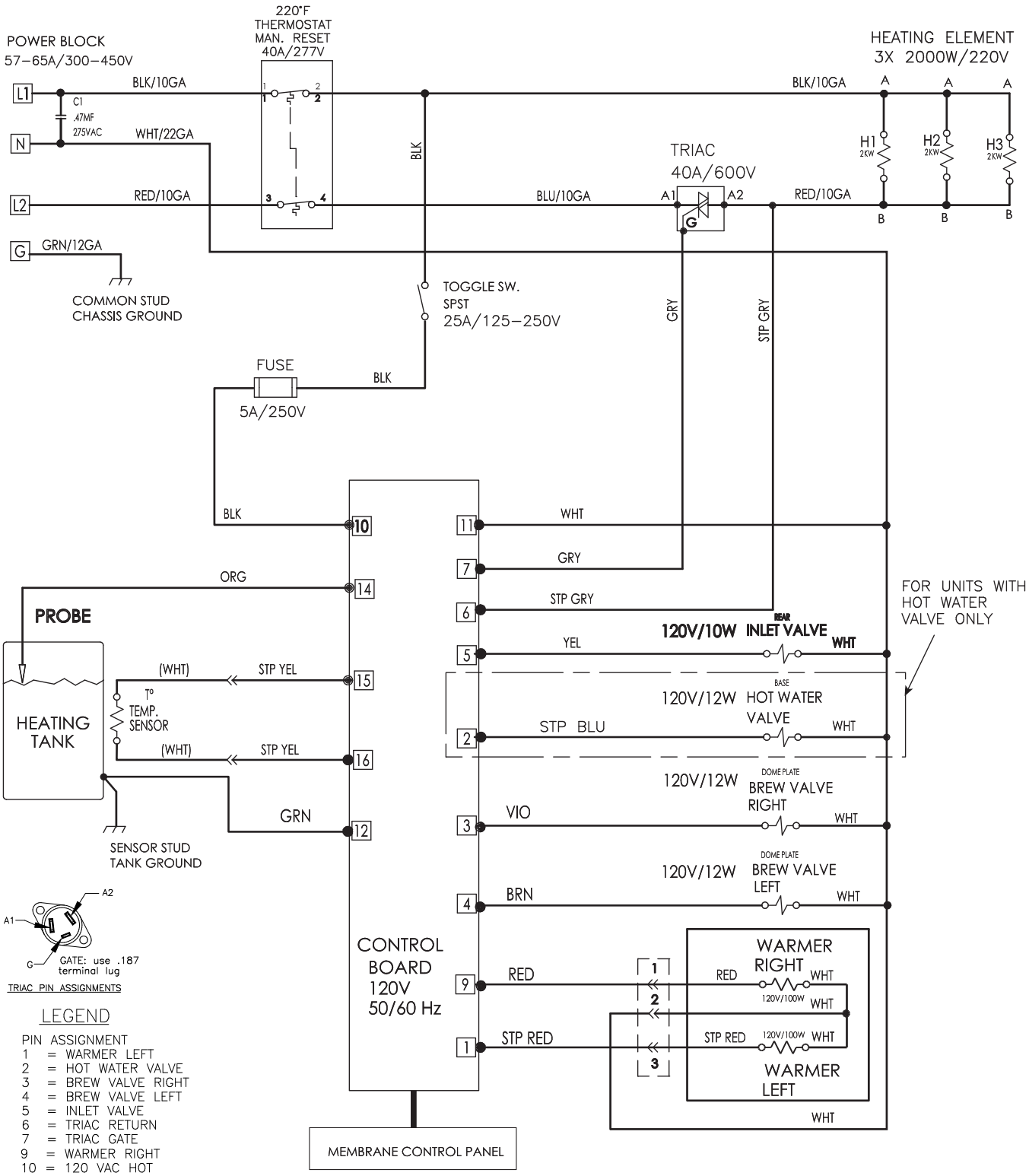
IMPORTANT

Tank assembly must be COOL before High Temperature Thermostat can be reset.

ROUGH-IN DRAWING
GEM-12D



ELECTRICAL SCHEMATICS



LEGEND

PIN ASSIGNMENT
1 = WARMER LEFT
2 = HOT WATER VALVE
3 = BREW VALVE RIGHT
4 = BREW VALVE LEFT
5 = INLET VALVE
6 = TRIAC RETURN
7 = TRIAC GATE
9 = WARMER RIGHT
10 = 120 VAC HOT
11 = 120 VAC RTN
12 = GND CHASSIS
14 = PROBE
15 = SENSOR
16 = SENSOR

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.: SCGEM–12D–10 or GEM–12D–12.

4 LOCATE MATED CONNECTOR AWAY FROM HEAT.

3 USE SWITCH GUARD WC–3249 AS REQUIRED BY UL.

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

1 ALL WIRES SHALL BE 22AWG TEFLON.

NOTES: UNLESS OTHERWISE SPECIFIED

VOLTAGE:	220V
WATTAGE:	6300
AMPERAGE:	29A
HERTZ:	50/60 HZ
WIRES:	3W + G
PHASE:	1 PHASE

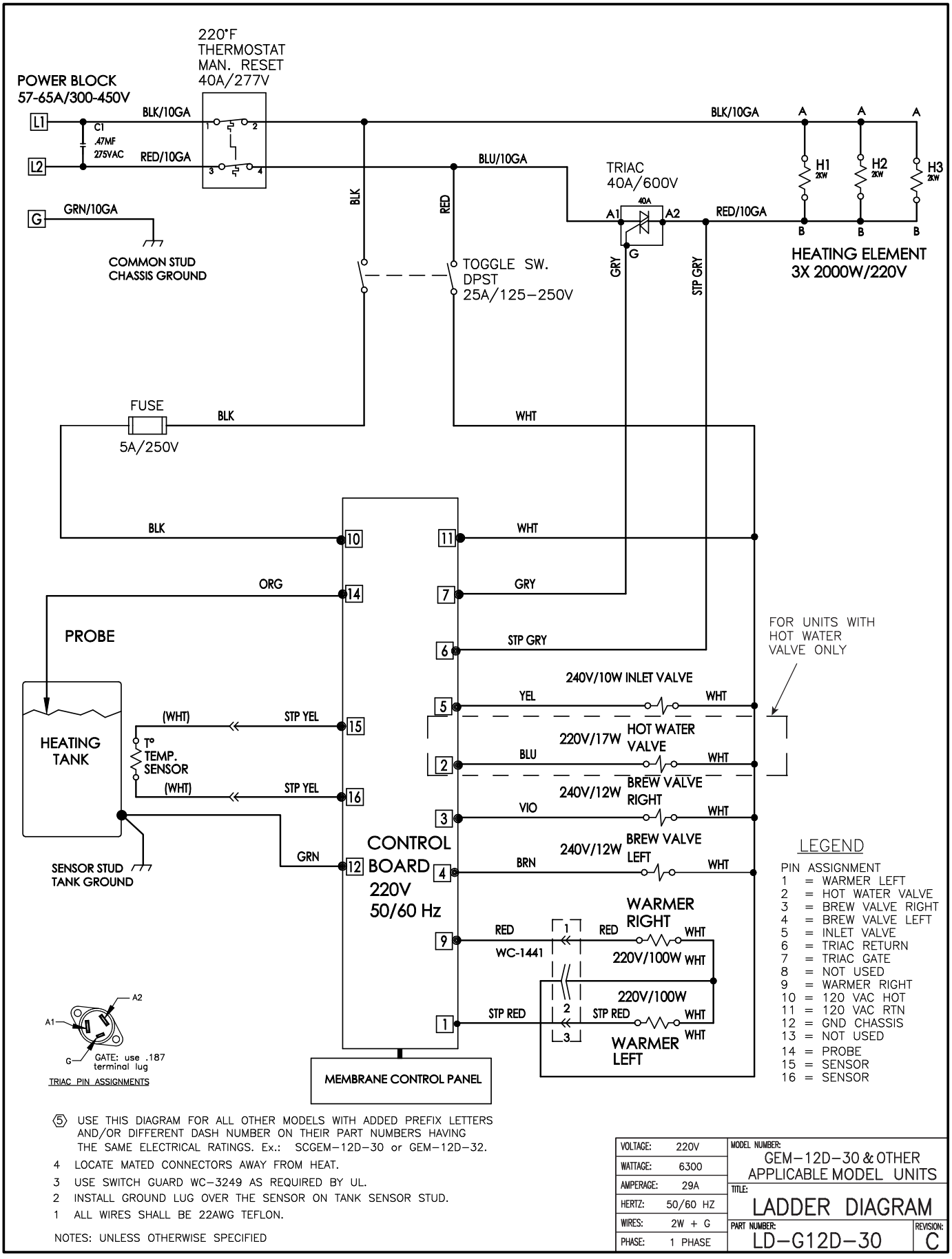
MODEL NUMBER: GEM–12D–10 & OTHER APPLICABLE MODEL UNITS ⑤

TITLE: LADDER DIAGRAM

PART NUMBER: LD–G12D–10

REVISION: C

ELECTRICAL SCHEMATICS



LEGEND

PIN ASSIGNMENT
1 = WARMER LEFT
2 = HOT WATER VALVE
3 = BREW VALVE RIGHT
4 = BREW VALVE LEFT
5 = INLET VALVE
6 = TRIAC RETURN
7 = TRIAC GATE
8 = NOT USED
9 = WARMER RIGHT
10 = 120 VAC HOT
11 = 120 VAC RTN
12 = GND CHASSIS
13 = NOT USED
14 = PROBE
15 = SENSOR
16 = SENSOR

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.: SCGEM-12D-30 or GEM-12D-32.

4 LOCATE MATED CONNECTORS AWAY FROM HEAT.

3 USE SWITCH GUARD WC-3249 AS REQUIRED BY UL.

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

1 ALL WIRES SHALL BE 22AWG TEFLON.

NOTES: UNLESS OTHERWISE SPECIFIED

VOLTAGE:	220V
WATTAGE:	6300
AMPERAGE:	29A
HERTZ:	50/60 HZ
WIRES:	2W + G
PHASE:	1 PHASE

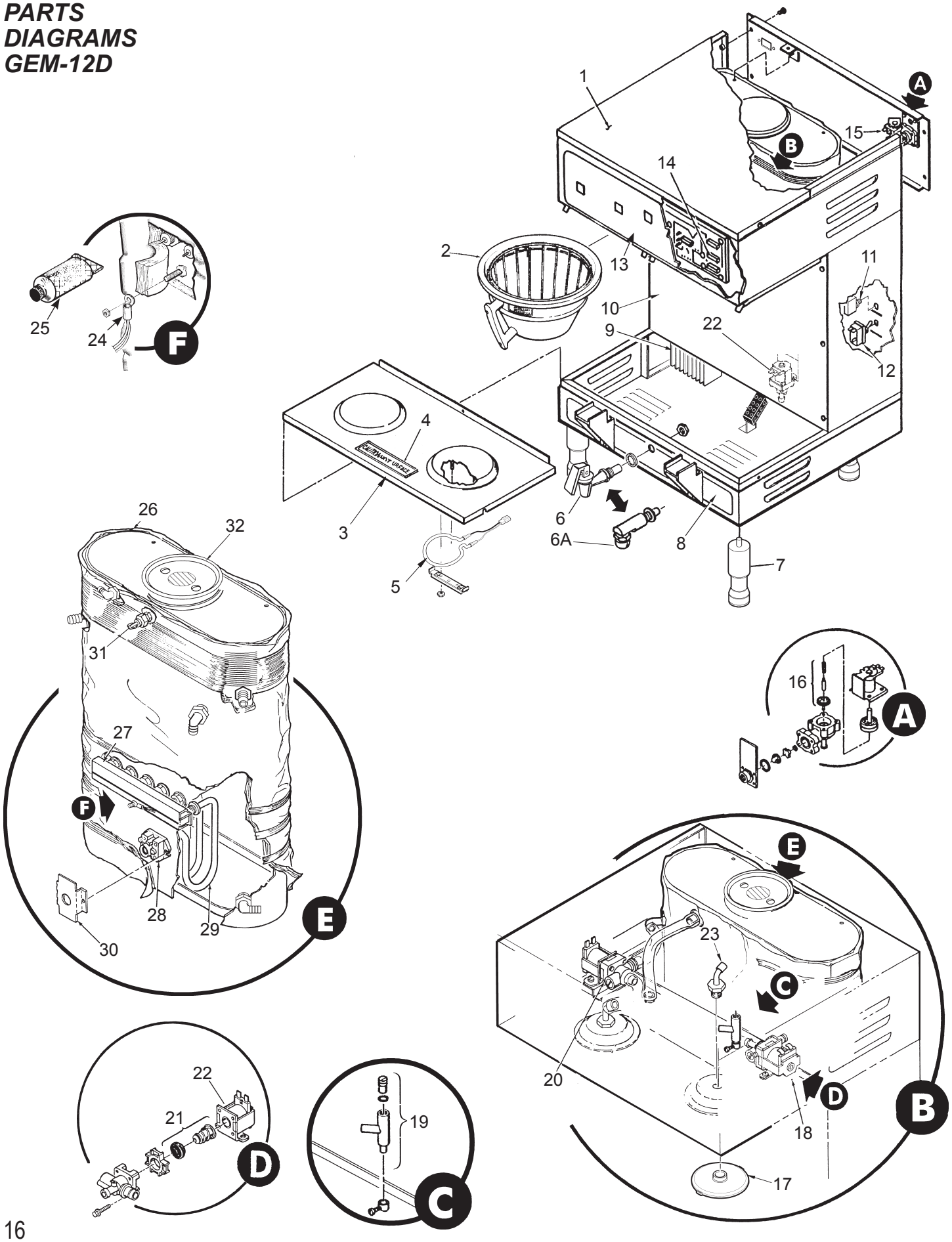
MODEL NUMBER: GEM-12D-30 & OTHER APPLICABLE MODEL UNITS

TITLE: LADDER DIAGRAM

PART NUMBER: LD-G12D-30

REVISION: C

PARTS
DIAGRAMS
GEM-12D

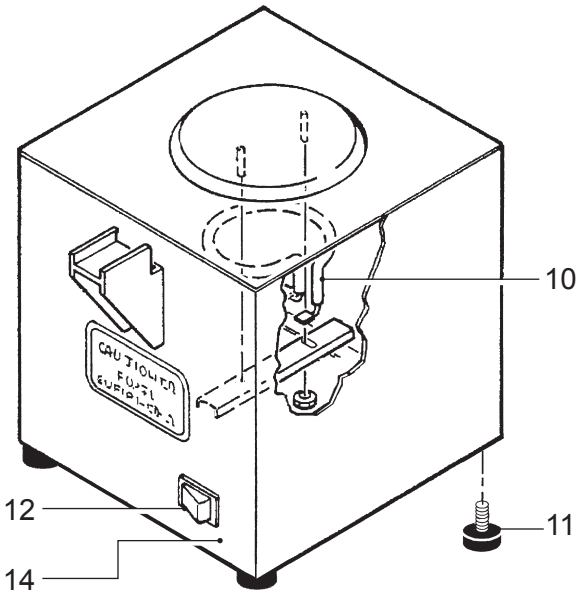


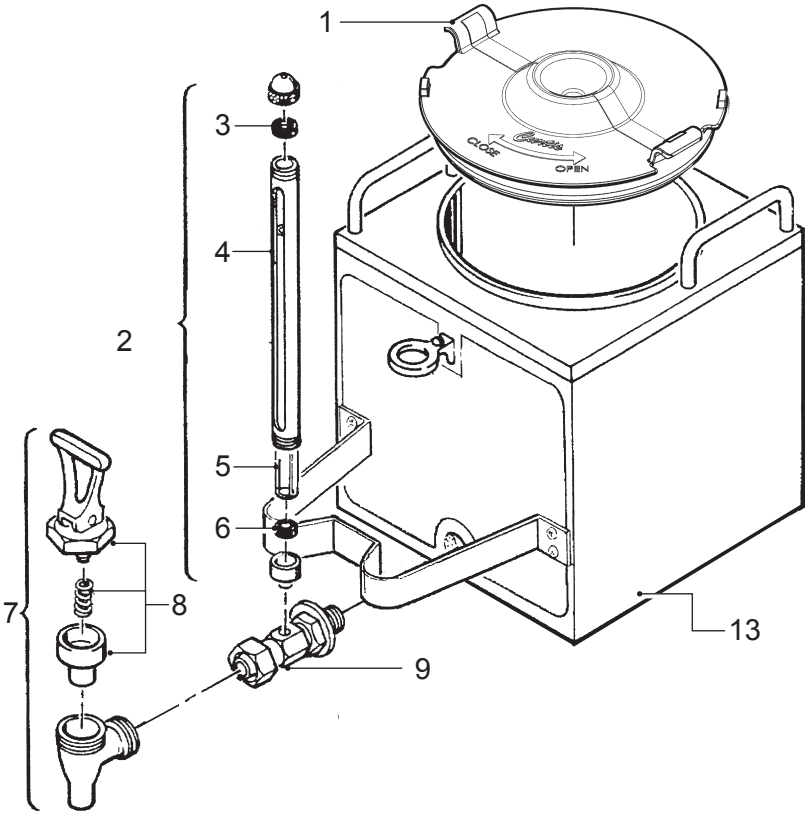
PARTS LIST GEM-12D

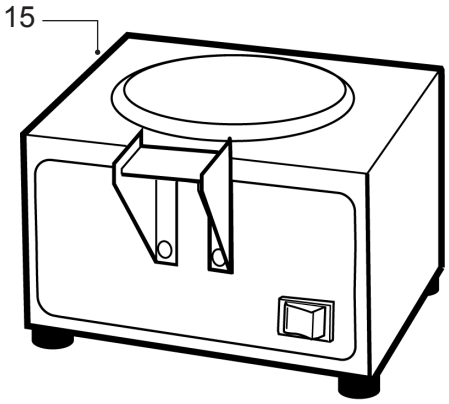
Index Nº	Part Nº	Description
1	WC-5421	COVER, TOP
2	WC-3357	BREWCONE W/HANDLE
3	WC-5423	DECK, WARMER W/ASSEMBLY
4	WC-38310	LABEL, CAUTION HOT SURFACE
5	WC-37102	WARMER ELEMENT, 120V 100W
6	WC-1809	FAUCET, HOT WATER
6A	WC-2912BK	SPOUT, HOT WATER NO SPLASH
7	WC-3528	LEG, 4" ADJUSTABLE 3/8-16 THRD ITALIAN STYLE
8	WC-39198	LABEL, BOTTOM PANEL
9	WC-8560	HEAT SINK, 1PH GEM
10	WC-5829	COVER, FRONT GEM-12D
11	WC-1501	FUSE HOLDER ASSY W/5A FUSE
12	WC- 102	SWITCH, TOGGLE
13	WC-39197	LABEL, MEMBRANE CONTROL PANEL GEM-12D
14	WC- 670	CONTROL BOARD
15	WC- 847	VALVE, INLET
16	WC-3765L	KIT, INLET VALVE REPAIR USE ON WC-847
17	WC-29025	SPRAYHEAD, PURPLE ADVANCE FLOW
17A	WC-2906	SPRAYHEAD, BLUE PLASTIC (OLDER UNITS)
18	WC-37122	VALVE, DUMP BREW RIGHT
19	WC-2987	BY-PASS ASSEMBLY, GEM-12D
20	WC-37121	VALVE, DUMP BREW LEFT
21	WC-3766	KIT, DUMP VALVE EATON REPAIR
22	WC- 888WDR	VALVE, HOT WATER
23	WC-2962	FITTING, SPRAYHEAD ASSEMBLY
23A	WC-2977-01	FITTING ASSY, SPRAYHEAD (OLDER UNITS)
24	WC-1438-101	SENSOR, HEATING TANK
25	WC-5231	CONPOUND, SILICONE ¾ OZ TUBE
26	WC-54005	TANK ASSY, COMPLETE
27	WC-4382	GUARD, SHOCK HEATING ELEMENTS
28	WC- 522	THERMOSTAT, RESET
29	WC- 906-04	ELEMENT, HEATING 2KW 220V W/JAMNUT & SLCN WSHRS
30	WC-43055	GUARD, SHOCK RESET THERMOSTAT
31	WC-5502-01	PROBE ASSY, WATER LEVEL
32	WC-37008	KIT, TANK LID

PARTS DIAGRAMS

GEM-3, SATELLITE COFFEE SERVER
GEM-5, SATELLITE WARMER
GEM-8, SATELLITE WARMER SHORT







№	Part №	Description
1	WC-5622	LID, SATELLITE PLASTIC GEM3
1A	WC-3307	LID, SATELLITE STAINLESS (OLDER UNITS)
2	WC-2102	GAUGE GLASS ASSEMBLY 8”
3	WC-2005*	WASHER, SHIELD CAP 1/8”
4	WC-2010C	SHIELD, 8 INCH GAUGE GLASS
5	WC-2025*	GAUGE GLASS, 8 INCH
6	WC-2006*	WASHER, SHIELD BASE 3/16”
7	WC-1800	FAUCET, S’ NON LOCKING
7A	WC-1841	FAUCET, ESP BLACK NON-LOCKING PLASTIC
8	WC-3705*	KIT, FAUCET S’ SERIES
9	WC-1901A	SHANK, FAUCET W/SHIELD BASE
10	WC-37102	KIT, WARMER ELEMENT 100W 120V
11	WC-3503	LEG, SCREW BUMPER 3/8”– 16 STD
12	WC- 114R	SWITCH, ROCKER (RED) 120V NEON SPST 15A 250V
13	GEM-3	SATELLITE SERVER 1/2 GALLON
14	GEM-5	SATELLITE WARMER STAND 120V 100W 1A 1PH 2W+G
15	GEM-8	SATELLITE WARMER STAND, SHORT 120V 100W

* Suggested parts to stock for servicing.

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, "0" 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 90640-5403 USA
Phone: 800/421-6150 ◆ Fax: 323-837-2410
◆ Technical Support Phone: 800/995-0417 (M-F 5:30A - 4:00P PST) ◆ E-Mail: techsupport@wilburcurtis.com
◆ Web Site: www.wilburcurtis.com

FOR THE LATEST SPECIFICATION INFORMATION GO TO WWW.WILBURCURTIS.COM

1/09 . F-3191 rev A