Parts Manual

Counter Type Electric Convection Steamer

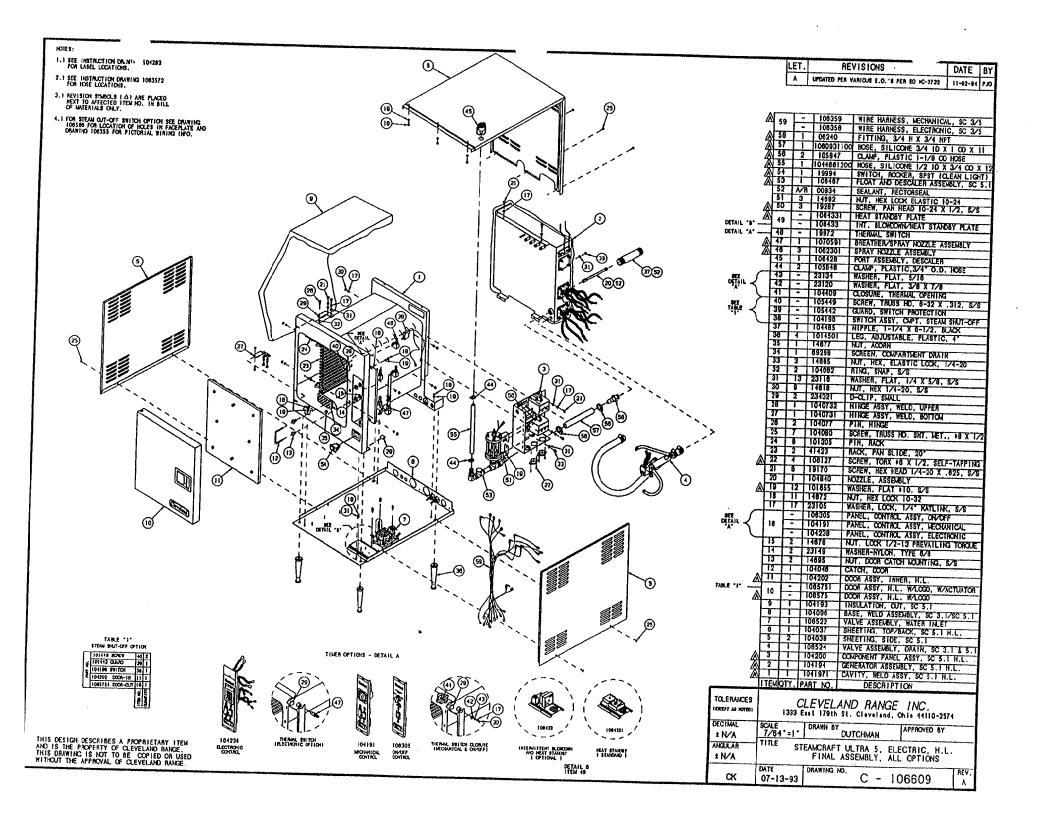


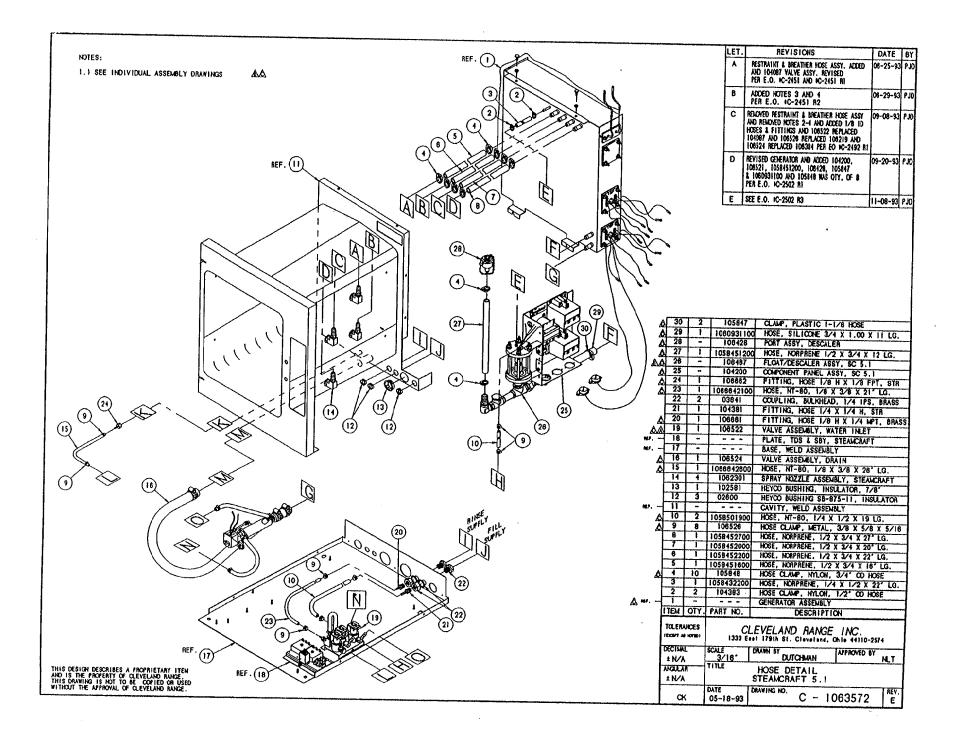
Series: SteamCraft Models 21CET16

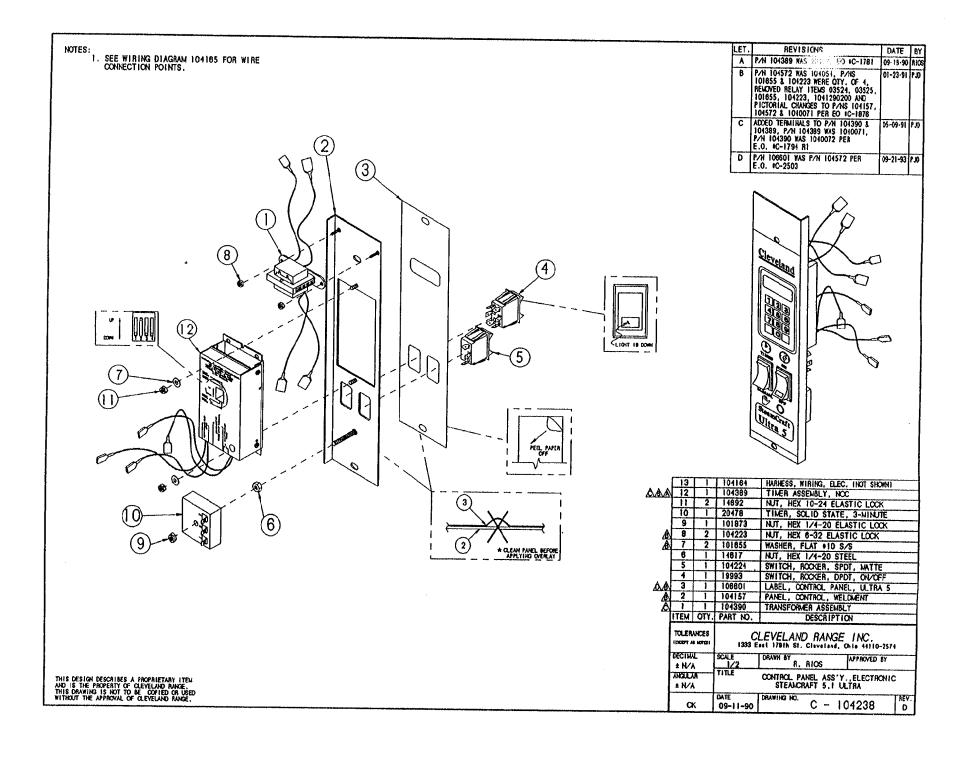
1333 East 179th Street Cleveland, Ohio 44110

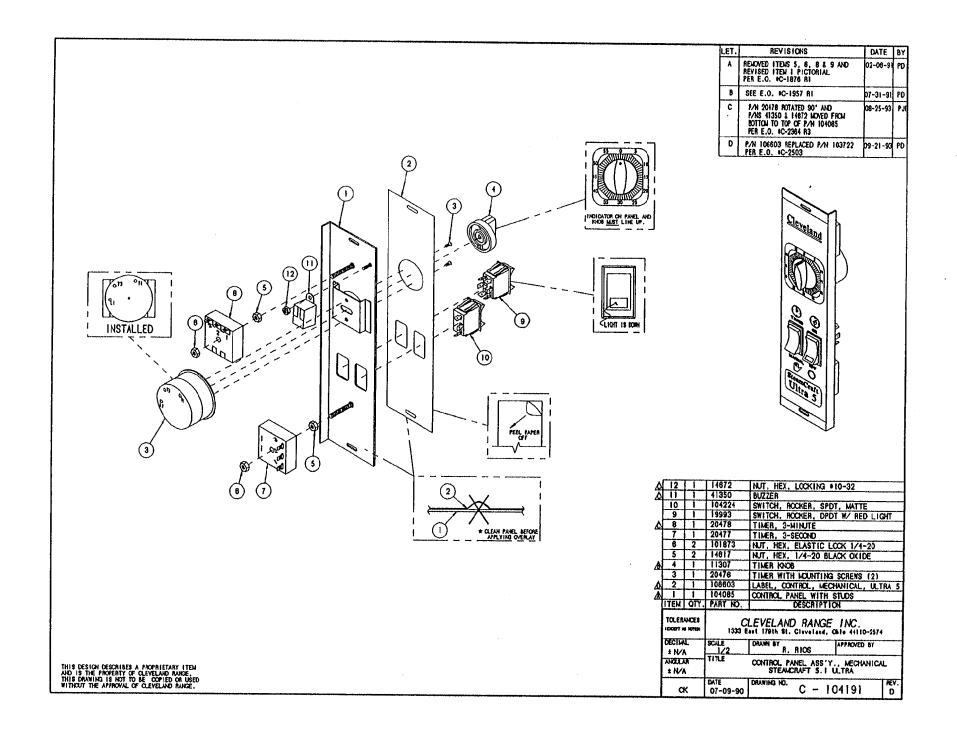
Phone: (216) 481-4900 1-800-338-2204 Fax: (216) 481-3782 www.clevelandrange.com

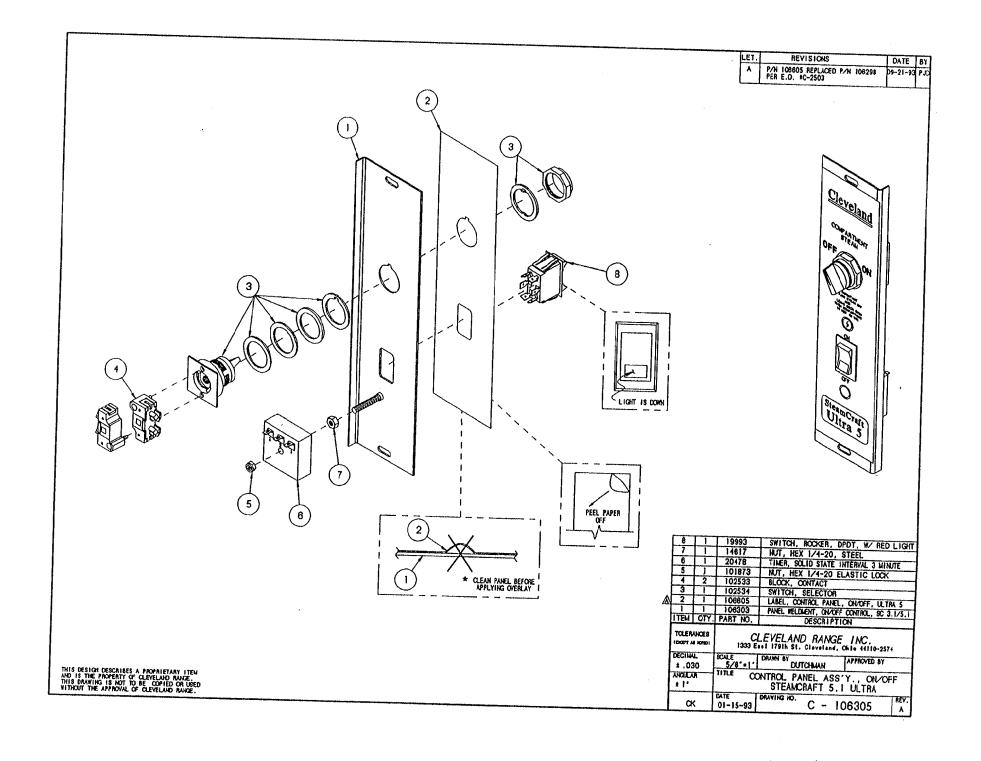


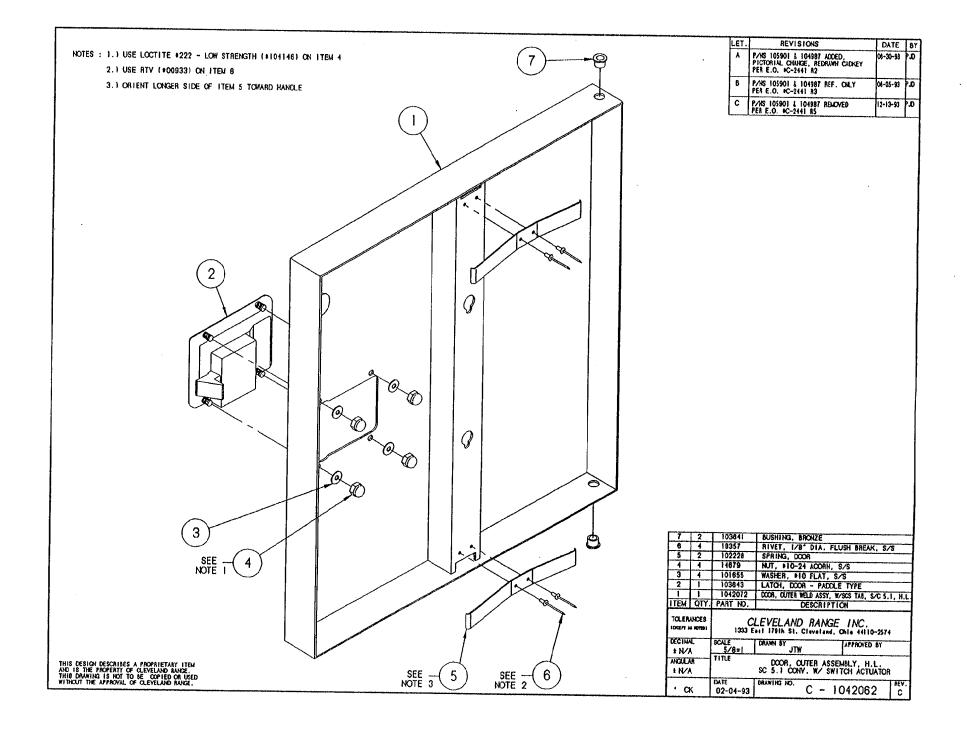


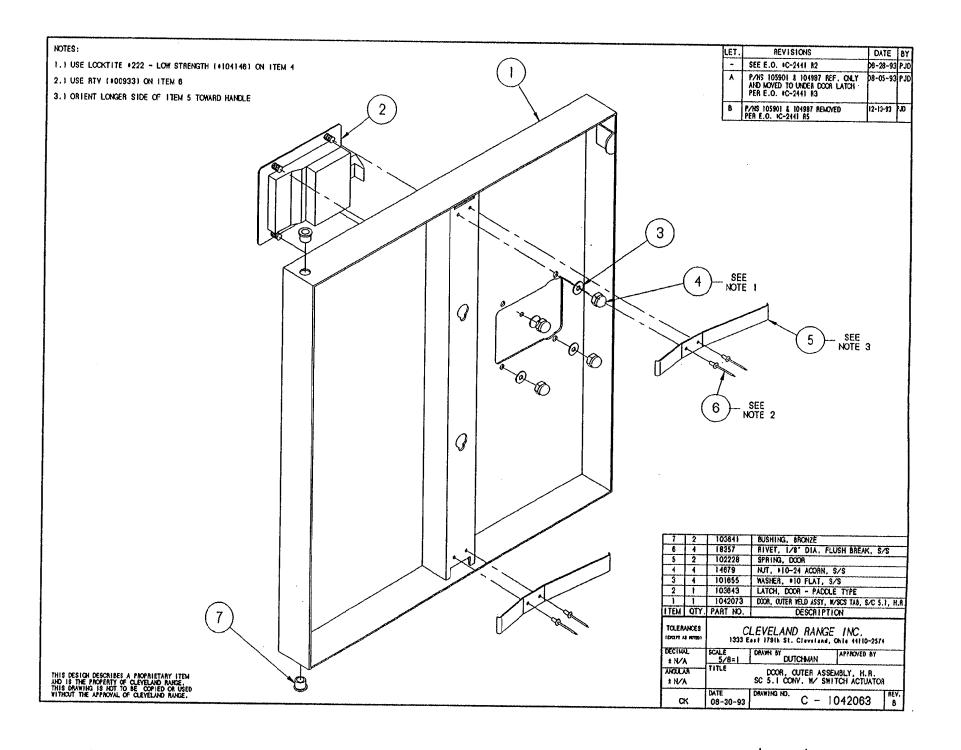




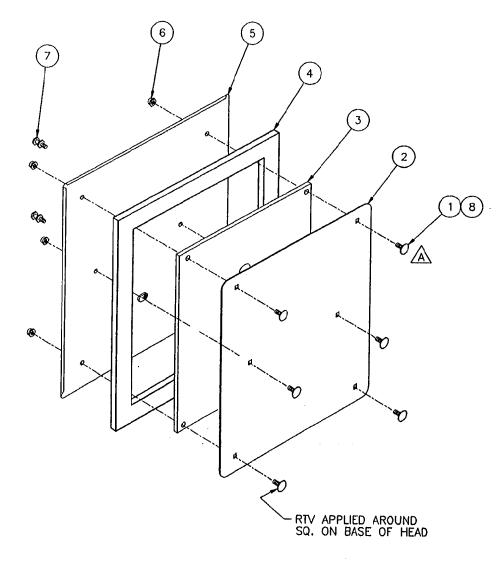








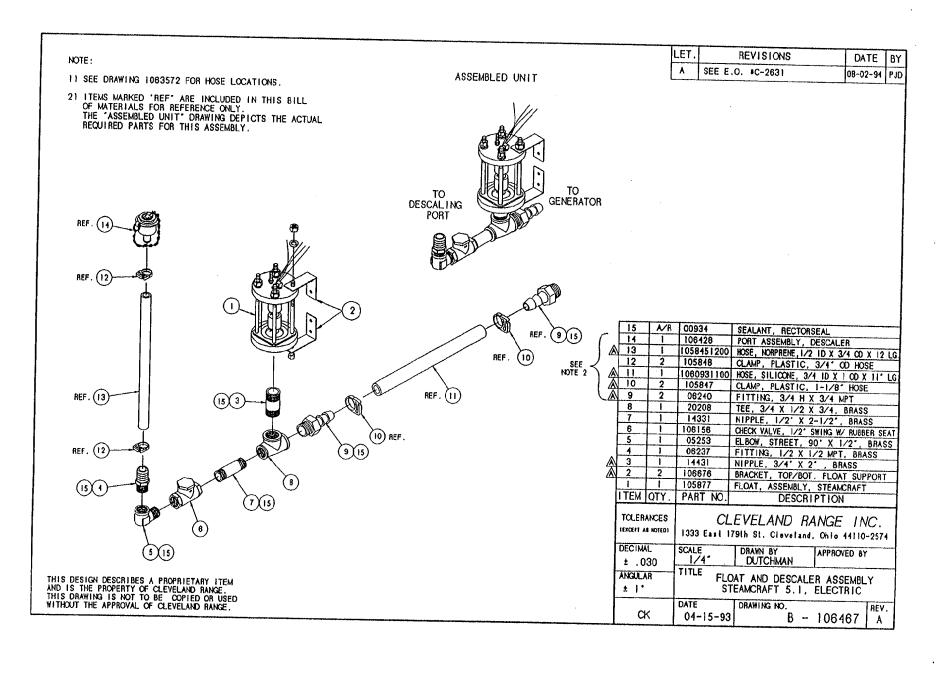
LET.	REVISIONS	DATE	BY
Α	ADDED ITEMS 1 & 8, ITEM 2 WAS 104205	6/25/91	JPB

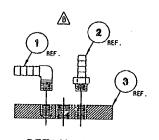




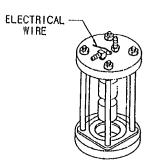
					
8	A/R	00932	SEALANT, CLEAR RIV		
7	2	66508	STUD, DOOR MOUNTING, INNER		*********
6	6	14665	NUT, HEX LOCK, 1/4-20 S/S	***	····
5	1	104204	DOOR WELDMENT, INNER, S/C 5.1		
4	1	104026	CASKET, DOOR S/C 5.1	******	
3	1	104022	PLATE, INNER CASKET RETAINER, S/C 5.	.1	
2	1	104021	PLATE, GASKET RETAINER, S/C 5.1		
1	6	104719	BOLT, CARRIAGE 1/4-20 X 1.000"	************	
ITEM QTY PART		PART NO.	DESCRIPTION		
TOLER (DXXIM A	ANCES S HOTED)		LEVELAND RANGE INC 333 East 179Un St. Cleveland, Ohio 44110-2574	2	
DECHAL _		SCALE NON	DRAWN BY JPB APPROVE	O BY	
ANGULAR ± 1°		tirus.	DOOR, INNER ASSY. STEAMCRAFT 5.1		
A	С	DATE 6/25/91	DRAWING NO. B- 104202		rev A

THIS DESKIN DESCRIBES A PROPRIETARY ITEM AND IS THE PROPERTY OF CLEVELAND RANGE. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF CLEVELAND RANGE

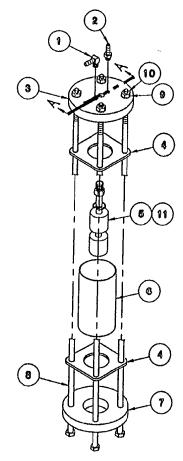




DETAIL A-A SCALE: 1/2=1



ASSEMBLED VIEW SCALE: 1/4=1



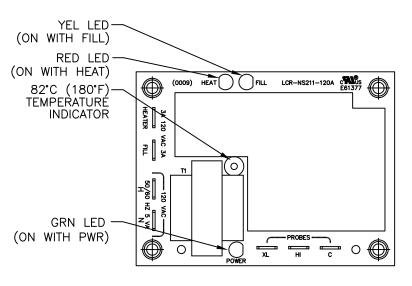
EXPLODED ASSEMBLY SCALE: 1/4=1

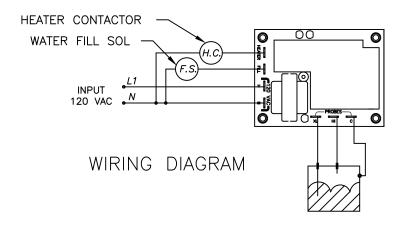
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REFERENCE: 260AHM 5 OF 5

LET.	REVISIONS	DATE	BY
Α	CORRECTED P/N 105787	7-30-92	SM
В	ROTATED 90° P/NS 105787 & 104380 PER EO *C-2304	10-10-92	PD
С	THIS ASSEMBLY REPLACES P/N 104091 ON SC 3.1, 5.1 ELECT. & SC 10 ELECT. PER EO #C-2277 R3	02-02-93	PD

		1 10		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	11	A/R	00934	SEALANT, RECTORSEAL		
	10	4	14618	NUT, HEX HEAD, 1/4-20, \$/\$		
	9	1	23105	WASHER, SPLIT LOCK, 1/4, S/S		
	8	4	104276	SCREW, HEX HEAD, 1/4-20 x 5.5, S/S		
	7	1	104040	CAP, FLOAT BOTTOM		
	8	1	1040190388	TUBE, POLYSULFONE, 2 x .125 x 3.875		
	5	ı	103726	SWITCH ASSEMBLY, FLOAT		
	1	2	104041	GASKET, FLOAT ASSEMBLY		
	3	1	104039	TOP, FLOAT, STEAMCRAFT		
	2	1	104380	FITTING, HOSE BARB, 1/4 H x 1/8 MPT		
◬	1	1	105787	FITTING, HOSE BARB, 90', 1/4 H x 1/8 MPT		
Ì	ITEM	QTY.	PART NO.	PART NO. DESCRIPTION		
	TOLERANCES LEXCEPT AS NOTED!		CL I	EVELAND RANGE INC. 91h S1. Cleveland, Ohio 44110-2574		
	DECIMA ± N/		SCALE DRAWN BY APPROVED BY AS SHOWN S. MILEWSKI			
	ANGULA	R	FLOAT ASSEMBLY, STEAMCRAFT 10 ELECTRIC, 3.1 AND 5.1			
	Cl	(DATE 05-28-92	DRAWING NO. B - 105877 C		





GENERAL DESCRIPTION

THIS SOLID STATE CONTROLLER SERVES AS A DUAL LEVEL WATER SENSING DEVICE. IT'S FUNCTIONS ARE TO:

- 1. MONITOR AND MAINTAIN A PRESET OPERATING WATER LEVEL WITHIN A STEAM GENERATOR VESSEL, AND
- 2. MONITOR THE SAFE LOW WATER LIMIT FOR HEATER OPERATION AND PROVIDE HEATER LOCK-OUT FOR UNSAFE OPERATION.

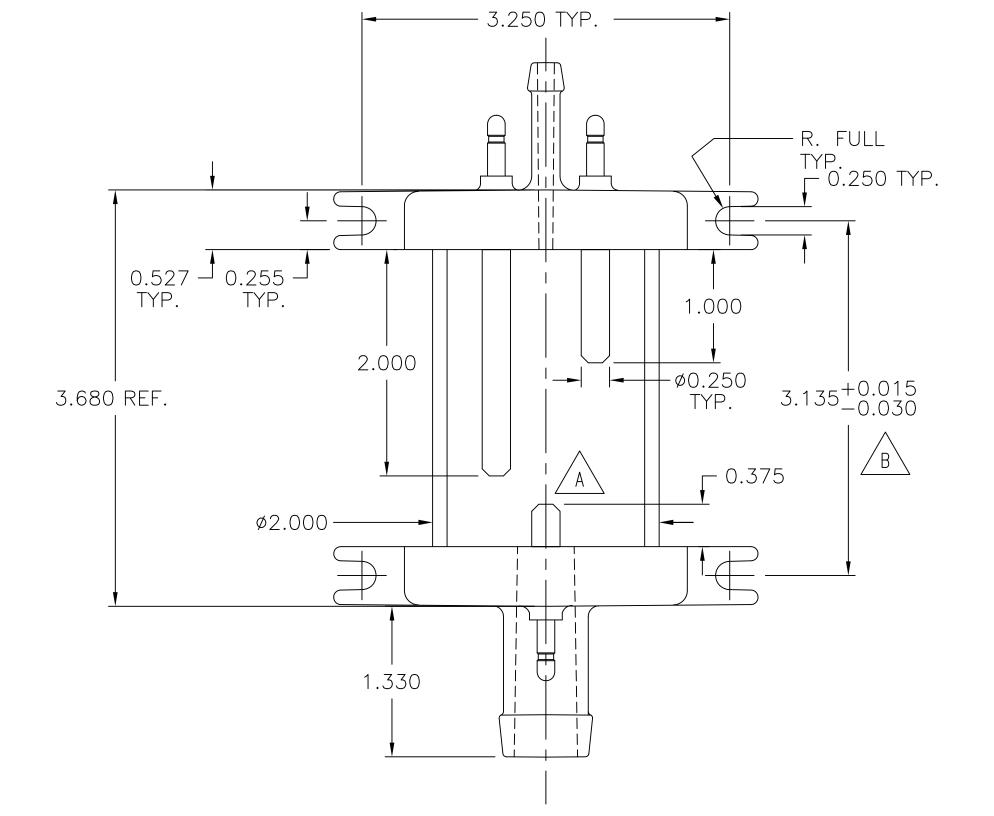
EACH FUNCTION WILL BE CONTROLED BY RESISTANCE SENSING BETWEEN THE PROBES ("HI" & "LOW" TERMINALS) AND A GROUNDED COMMON ("C" TERMINAL).

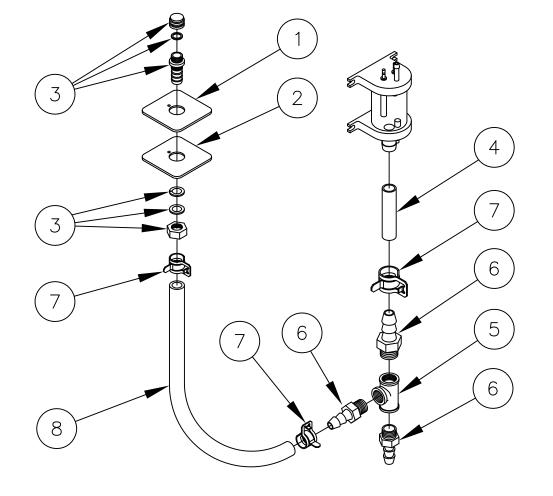
LOW PROBE OPERATION

WHEN WATER CONTACTS PROBE, RESISTANCE BETWEEN "LOW" PROBE AND COMMON "C" WILL BE BELOW SET POINT (50 K OHM) AND OUTPUT RELAY WILL BE ACTIVATED IMMEDIATELY TO SUPPLY 120 VAC FROM L1 TO HTR TERMINAL. WHEN CONTACT BETWEEN WATER AND PROBE IS BROKEN (RESISTANCE GREATER THAN 50 K OHM) THE RELAY WILL BE DEACTIVATED WITHIN 0-2 SECONDS.

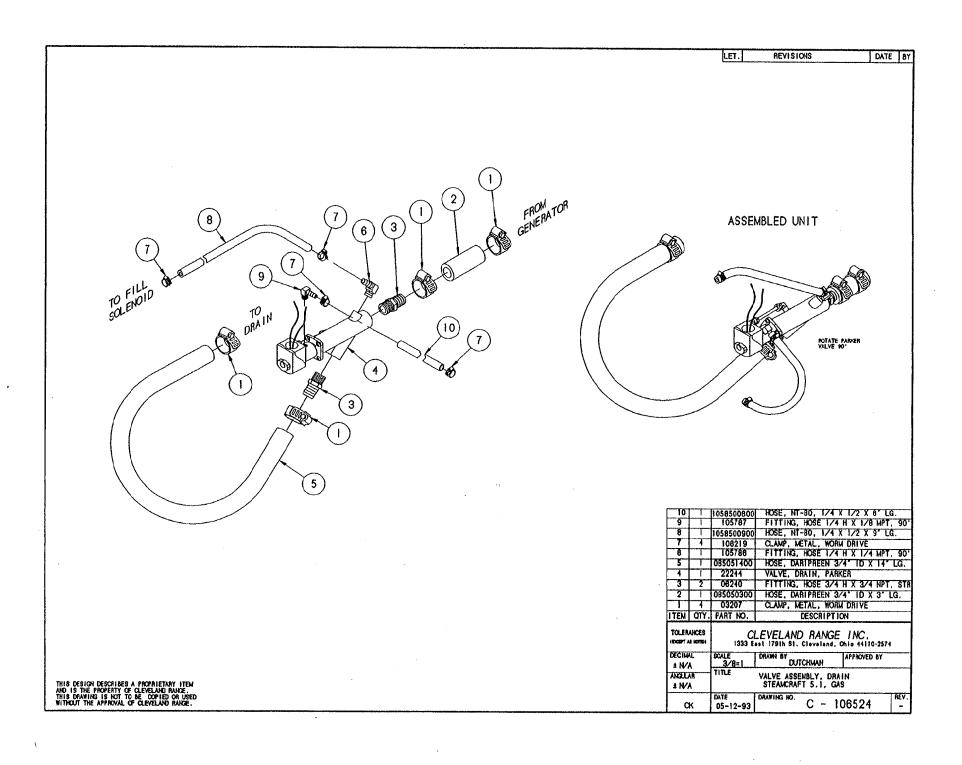
HI PROBE OPERATION

AS WATER MAKES CONTACT WITH PROBE, RESISTANCE BETWEEN "HI" AND COMMON "C" WILL BE BELOW SET POINT (50 K OHM) AND OUTPUT RELAY IS DEACTIVATED IMMEDIATELY. WHEN WATER BREAKS CONTACT WITH "HI" PROBE DELAY TIMING STARTS. TIMING IS NOT ACCUMULATIVE AND DELAY TIMER WILL BE RESET TO ZERO ANY TIME RESISTANCE BETWEEN "HI" PROBE AND COMMON "C" GOES BELOW SET POINT (50 K OHM). WHEN RESISTANCE BETWEEN HI PROBE AND COMMON "C" REMAINS ABOVE SET POINT FOR MORE THAN 5 SEC. (-2,+0 SEC.) THE OUTPUT RELAY ACTIVATED TO PROVIDE 120 VAC FROM L1 TO WF TERMINAL.

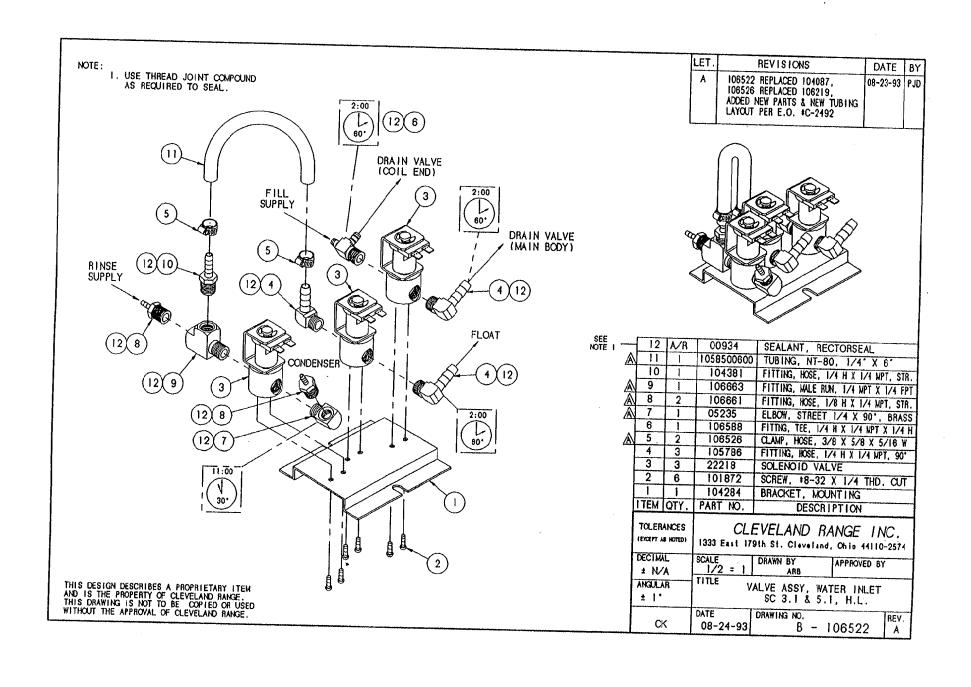


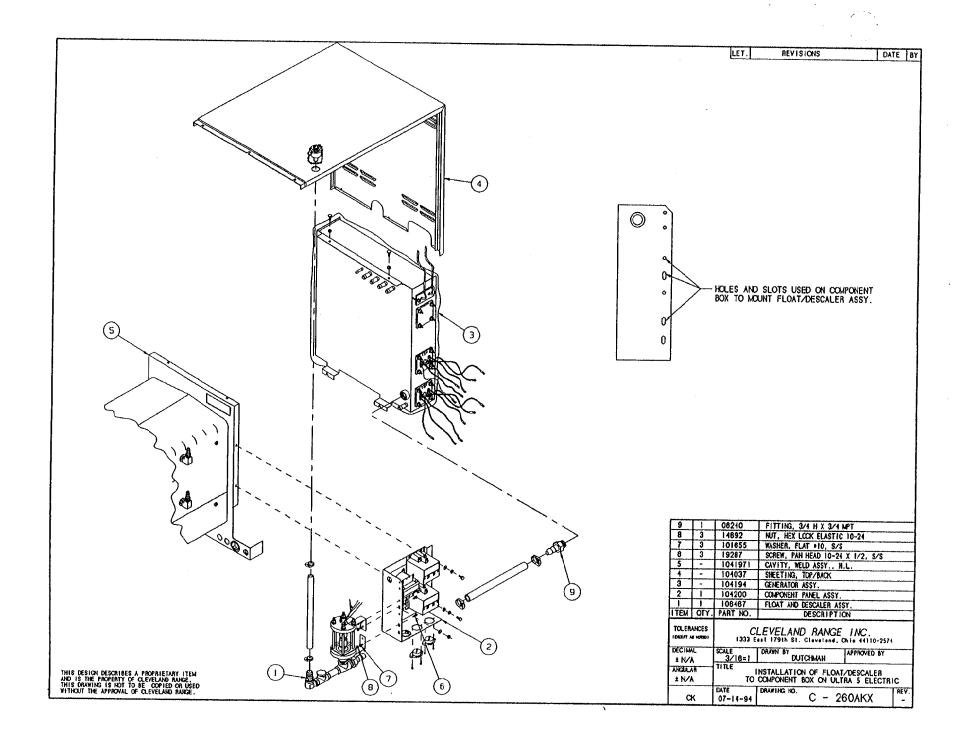


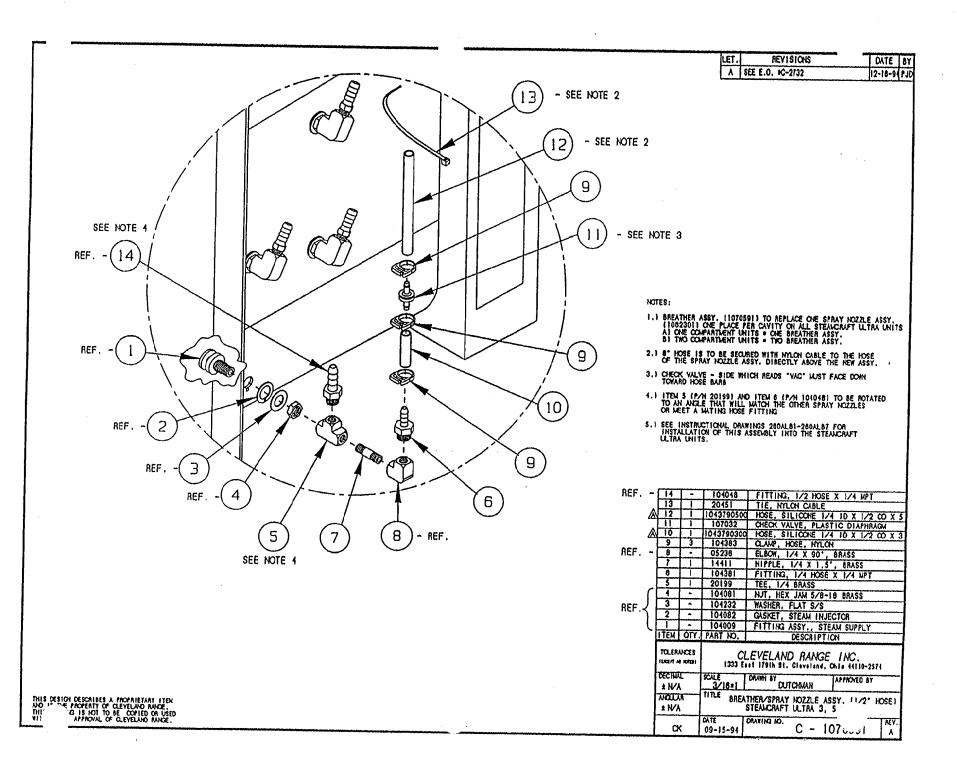
8	}	1	085112700	HOSE, WHITE, EPDM, 3/4 ID X 27.000 LG
7	7	2	107312	CLAMP, HOSE METAL TENSION, 1.125 OD HOSE
6		2	06240	FITTING, HOSE BARB, 3/4 X 3/4
5		1	20206	TEE, 3/4 BRASS
4	+	1	085110600	HOSE, WHITE, EPDM, 3/4 ID X 6.000
-	3	1	109641	PORT ASSEMBLY, DESCALER
)	1	108724	PLATE, DESCALER PORT CVRSN
		1	108723	GASKET, DESCALER PORT CVRSN

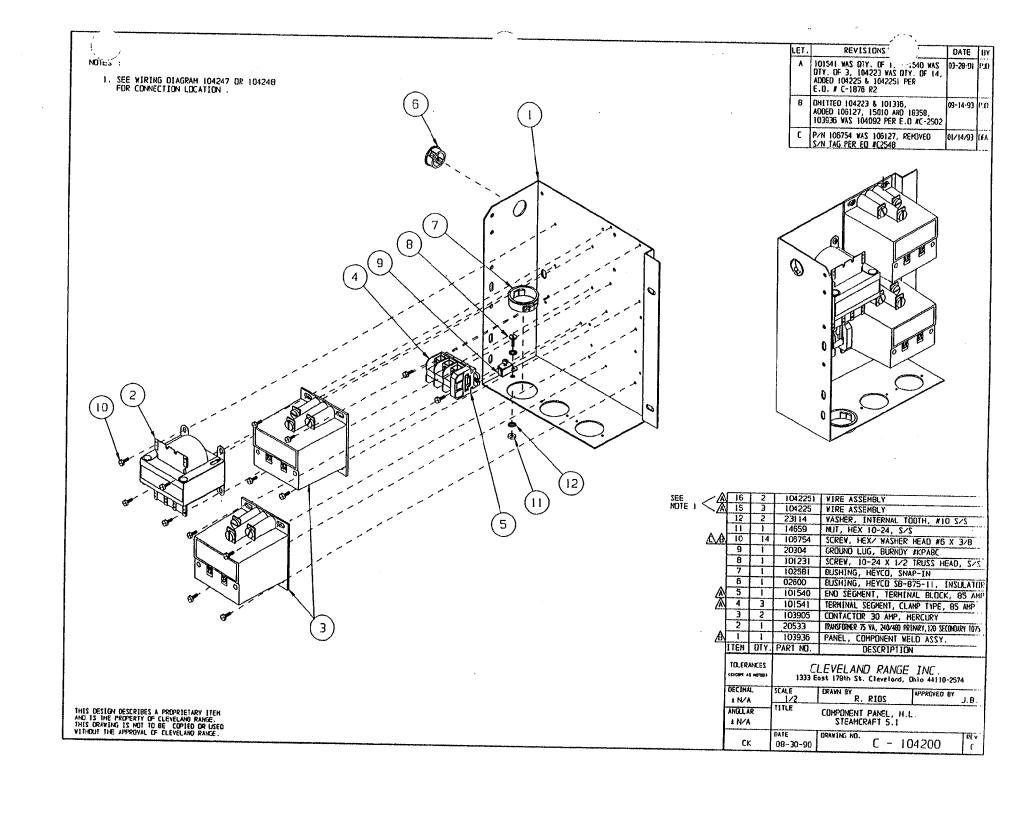


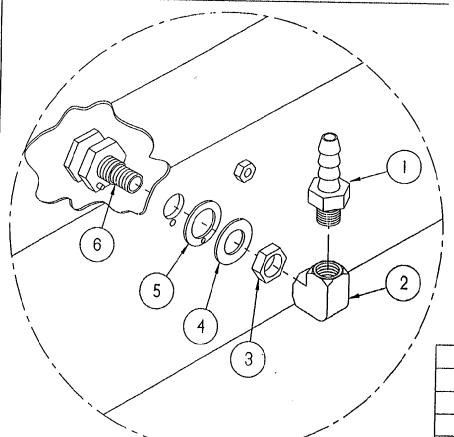
REVISIONS DATE BY 01/13/95 NT A ADDED NOTE FOR ASSEMBLY. NOTE: 1) Rotate solenoid valve 45° clockwise for left hinging units. Rotate solenoid valve 45° counter-clockwise for right hinging units. 2 3 10 A/R 00934 SEALANT, RECTORSEAL 9 2 03207 CLAMF, NCSE, LINED, MAX OD 1.125*
8 1 1058501100 MOSE, NT-80, 1/4 X 1/2 X 11' LG. 5 7 2 108528 CLAMP, HOSE, WORN DRIVE, 3/18-5/18
8 1 105788 FITTING, HOSE 1/4 H X 1/4 MPT, 90'
5 1 085051400 HOSE, DARIPREEN 3/4' ID X 14' LG. 1 22221 VALVE, DRAIN, ASCO 3 2 08241 FITTING, HOSE 3/4 H X 1/2 NPT, STR
2 1 085110300 HOSE, SILBRADE, 3/4* ID X 3* LG.
1 2 03204 CLAMP, HOSE, WORM DRIVE, 3/4*
ITEM OTY, PART NO. DESCRIPTION TOLERANCES CLEVELAND RANGE INC. DECTMAL DUTCHMAN APPROVED BY ± N/A VALVE ASSEMBLY, DRAIN STEAMCRAFT 3.1 AND 5.1 WALLA ± N/A THIS DESIGN DESCRIBES A PROPRIETARY ITEM AND IS THE PROPERTY OF CLEYELAD RANCE. THIS DANNING IS NOT TO SE COPIED OR USED WITHOUT THE APPROVAL OF CLEYELAND RANCE. C - 10638402-12-93









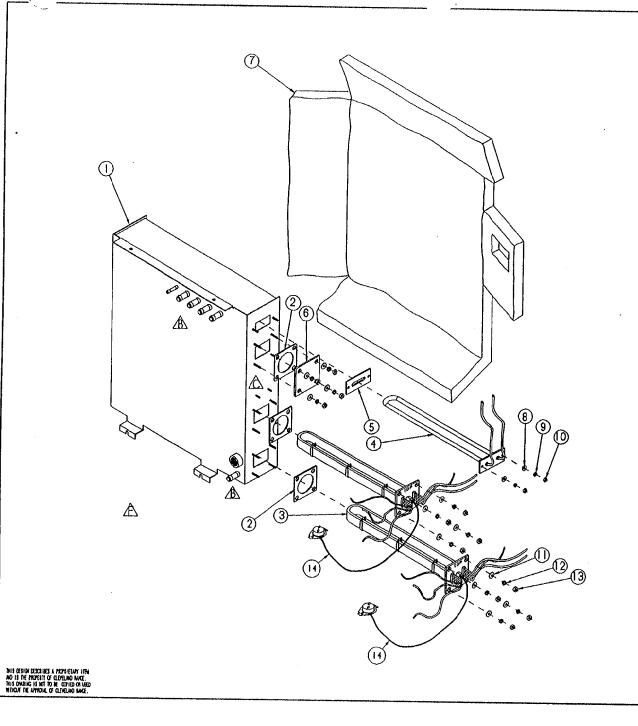


LET. REVISIONS DATE 1 BY

TYPICAL APPLICATION

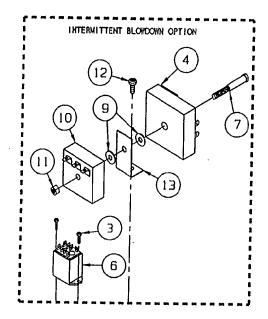
THIS DESIGN DESCRIBES A PROPRIETARY ITEM AND IS THE PROPERTY OF CLEVELAND RANGE. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF CLEVELAND RANGE.

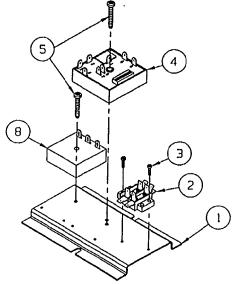
		T			
6	1	104009	FITTING, ASSY, STEAM SUPPLY		
5	1	104082	104082 GASKET, STEAM NJECTOR		
4	1	104232	WASHER, FLAT S/S		
3	1	104081	NUT, JAM 5/8-18, BRASS		
2	1	05236	ELBOW, 1/4" X 90°, BRASS		
1	1	104048	FITTING, HOSE 1/2 H X 1/4 MPT		
ITEM	QTY.	PART NO.	DESCRIPTION		
TOLERA			ELAND RANGE INC. 9th St. Cleveland, Ohio 44110-2574		
DECIMA ± .C		SCALE 1/2"	DRAWN BY APPROVED BY THOMPSON		
ANGULAR ± 1°			PRAY NOZZLE ASSEMBLY NMCRAFT 3.1, 5.1 AND 10		
`ж		DATE 02-12-93	DRAWING NO. 1v. A - 1062301		

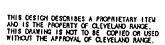


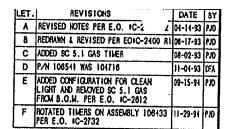
LET	REVISIONS	DATE	BY
٨	ITEN 112 WAS 06193, 10 WAS FROM ITEN 18, E.O. 1791	10-1-90	Я. П.
8	REMOVED P/NS 03524, 03525, 104223 & 101655 - REVISED P/NS 104195 & 104091 - E.O. 1876 RI COST REDUCTIO	02-12-91	P.D.
С	ADDED STUDS ON GENERATOR, PICTORIAL ADDED HEATER & ELEMENT VARIATIONS AND P/N 103731 TO PART LIST E.O. #C-2308	10-14-9	2 PO
D	P/N 104091 PICTORIAL REVISED PER E.O. +C-2277	01-12-93	PJD
E	P/N 105877 WAS 104091 PER E.O. IC-2277 R3	02-02-93	PJD
F	REMOVED FLOAT ASSEMBLY (P/NS 105877, 14352, 05260 & 104064) PER E.O. IC-2631	08-02-94	PJO

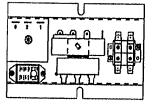
4	14	2	103731	CAPILLARY, HI LINIT	
	13	12	14818	NUT, HEX, 1/4-20 S/S	
	12	12	23105	WASHER, LOCK, 1/4 S/S	
	11	12	23116	WASHER, FLAT 1/4 X 5/8	
	10	2	14859	NUT. HEX. 10-24 8/8	
	9	2	23113	WASHER, LOCK, SPLIT RING, CAD PLATED.	110
	8	2	101655	WASHER, FLAT, \$10 S/S	
	7	1	104192	INSULATION, CUT, GENERATOR	
	8	1	104614	PLATE, GENERATOR CLEAN-OUT	
	5	1	104386	GASKET, DRYING ELEMENTS	
	J		1043064	ELEMENT, IMMERSION, 300W, 41	5 Y
◬	1.		1043063	ELEMENT, IMMERSION, 300W, 38	0 4
	1		1043062		0 Y
	í	-	1043061		0 Y
		-	104306	ELEMENT, IMMERSION, 300W, 20	8 Y
	- 1038815 HEATER ASSY, 8 kw. 380 V				
Æ	Ι.	- 1038815 HEATER ASSY, 8 kw, 380 V - 1038814 HEATER ASSY, 8 kw, 480 V - 1038812 HEATER ASSY, 8 kw, 415 V			
1343	3	•		HEATER ASSY, 8 kw, 415 V	
			1038811	HEATER ASSY, 8 km, 240 V	
	i	•	103881	HEATER ASSY, 8 km. 208 V	
	2	3	07128	GASKET	
ΔÂ		1	104195	GENERATOR ASSY, WELD, SC 5.1	
	.NO.	OTY	. PART NO.	DESCRIPTION	
	TOLERA IDODY M		1337 (eland Range Inc	٠
	DECINAL 2 N/A		SCALE 1/4=1	DRAWN BY R. RIOS APPROVED BY J. 8	١.
	ANGULAI 1. N		. ILLE C	SENERATOR ASSEMBLY, H.L. STEAMCRAFT ULTRA 5 & 10	
				DRAWING NO.	REV.
	a	(9-04-90	C-104194	F
					





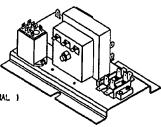


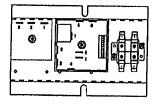




106433

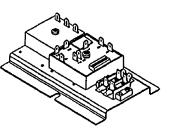
INTERMITTENT BLOWDOWN (OPTIONAL)



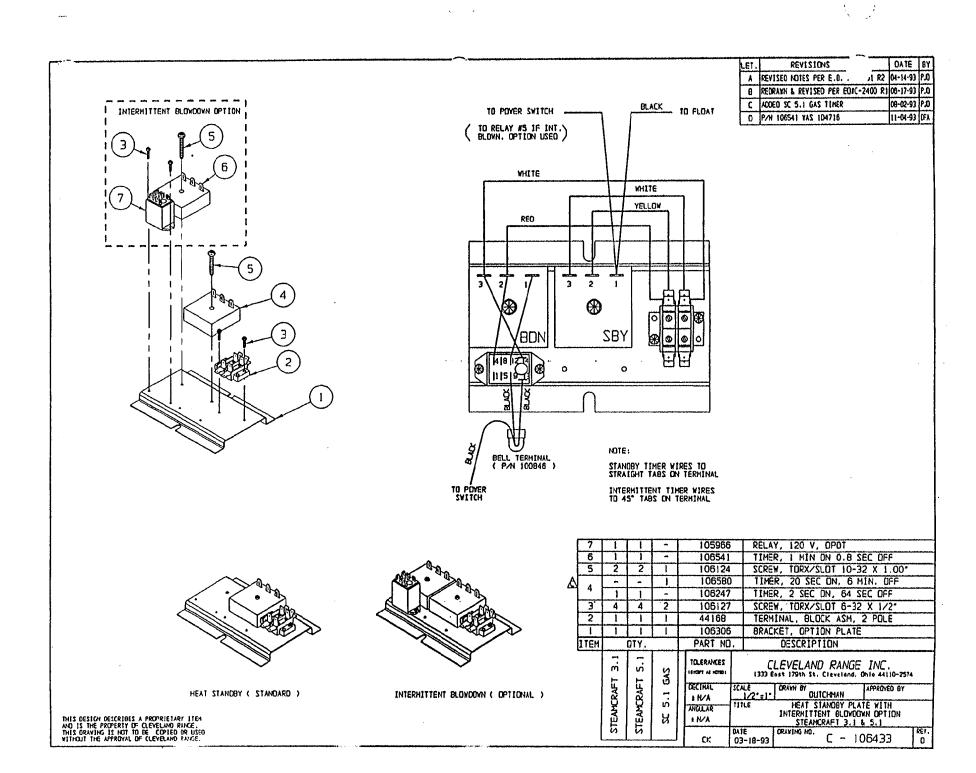


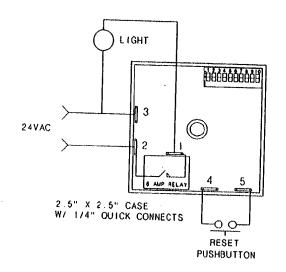
1064331

HEAT STANDBY (STANDARD)



٨							
Æ	13	<u> </u>	11	105955	The state of the s		
Æ	12		11	108123	SCREW, TORX/SLOT #10-32 X .500' LG.		
🕰	11	<u> </u>	1 1	14618	NUT, HEX 1/4-20, FULL FINISH		
<u> </u>	10	-		106541	TIMER, I MIN. ON 0.8 SEC. OFF		
Æ	9	-	2	23116	WASHER, FLAT 1/4-20 S/S		
Æ	8	1	1	108247	INTERVAL TIMER, 2 SEC. ON, 84 SEC. OFF		
Æ	7	_	1	106118	BOLT, 1/4-20 X 2-1/4, ZINC PLATED		
	6	-		105966	RELAY, 120 V, DPDT		
	5	2		106124	SCREW, TORX/SLOT #10-32 X 1.00' LG.		
A/\$/A	4	1	1	106911	TIMER, CLEAN LIGHT (DIP SWITCHES)		
	3	2	4	108127	SCREW, TORX/SLOT #8-32 X .500° LG.		
	2			44168	TERMINAL, BLOCK ASM, 2 POLE		
	1	1		108306	BRACKET, OPTION PLATE		
	ITEM		QTY.	PART NO.	DESCRIPTION ,		
		1064331 T STANDBY	106433 BLOWDOWN	1 N/A	CLEVELAND RANGE INC. 1333 East 17915 St. Cleveland, Onto 44110-2574 SCALE 1/2**1' DAWN BY DUTCHMAN APPROVED BY		
		型	Ę	± N/A	INTERMITTENT BLOWCOWN OPTION STEAMCRAFT ULTRA 3 & 5 ELEC.		
			=		MTE DRAWING NO. 03-18-93 C - 106433/106 1 F		





SWITCH # TIME AMOUNT 1 . 0.5 HR 2 * 1.0 HR 3 * 2.0 HR 4 -4.0 HR 8.0 HR 6 • 16.0 HR 32.0 HR 8 * 64.0 HR 9 * 128.0 HR 10 - 256.0 HR

REVISIONS

DATE BY

LET.

SOURCE: AIROTRONICS 2747 RT. 20 E. BOX 326

CAZENOVIA, N.Y. 13035

TYPE: CR-2 TGCXB3511H5E2 INPUT: 24 VAC. 6 AMP DELAY: 5-511. 5 HR. ON-DLY COMBINE SWITCHES FOR TIME DELAY IN HOURS EXAMPLES:

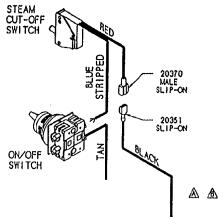
37 HRS - SWITCH 7 - SWITCH 4 - SWITCH 2 250 HRS - SWITCH 9 - SWITCH 8 - SWITCH 7 - SWITCH 6 - SWITCH 5 - SWITCH 3

OPERATION:

SELECT DELAY VIA DIP SWITCH. APPLY 24VAC TO THE TIMER. AS THE SUPPLY VOLTAGE IS TURNED ON AND OFF TO THE TIMER THE TIMER WILL KEEP TRACK OF THE ELAPSED TIME THE SUPPLY VOLTAGE IS ON. ONCE THE TIMERS SUPPLY VOLTAGE HAS BEEN ON LONGER THAN THE SELECTED DELAY THE RELAY WILL TRANSFER. THIS IN TURN WILL TURN ON THE INDICATOR LIGHT. ONCE THIS HAS HAPPENED THE RESET BUTTON WILL BECOME ACTIVE AND ALLOW THE TIMER TO BE RESET.

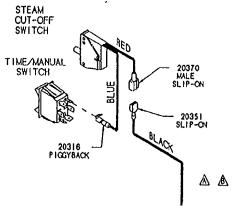
ITEM QTY.	PART NO.	DESCRI	PTION			
TOLERANCES (EXCEPT AS HOTED)	CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574					
DECIWAL ± .030	SCALE =	DRAWN BY DUTCHMAN	APPROVED BY	,		
ANGULAR ± 1°	TITLE TIMER, CLEAN LIGHT (DIP SWITCHES)					
СК	DATE 05-23-94	DRAWING NO.	106911	REV.		

FOR ON/OFF SWITC, I



FROM: FLOAT (STANDARD)
GEN. STAND-BY TIMER (SBY OPTION)
BELL TERMINAL (TDS AND SBY OPTIONS TOGETHER)

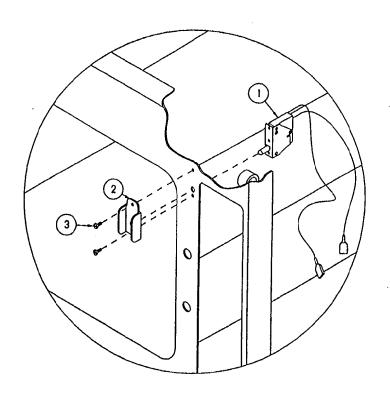
FOR ELECTRICAL & 60 MINUTE MECHANICAL TIMERS



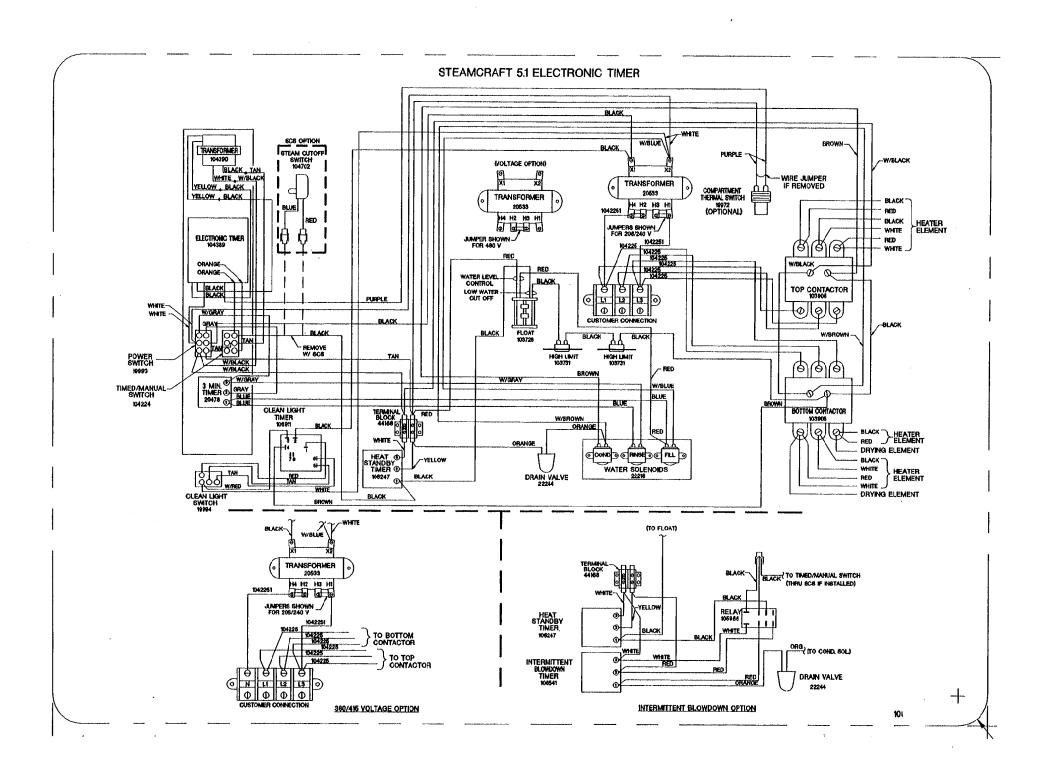
FROM: FLOAT (STANDARD GEN. STAND-BY T LER (SBY OPTION) BELL TERMINAL (I.S AND SBY OPTIONS TOGETHER)

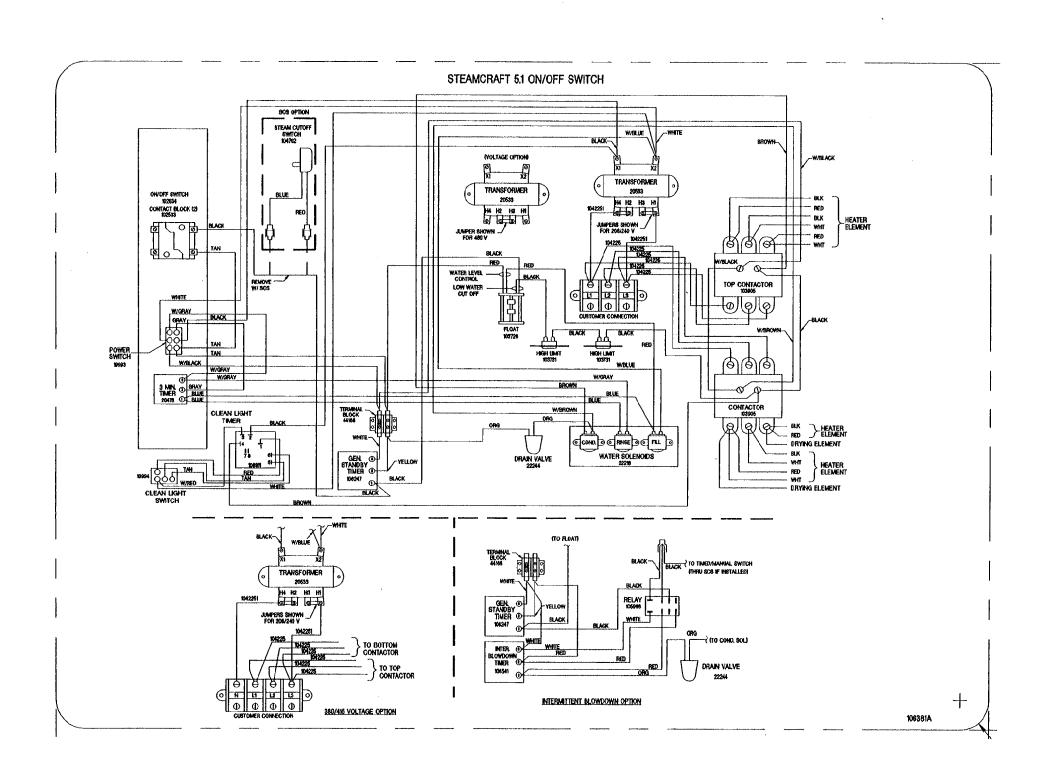
THIS CESICN DESCRIBES A PROPRIETARY ITEM AND IS THE PROPERTY OF CLEVELAND RANGE. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF CLEVELAND RANGE.

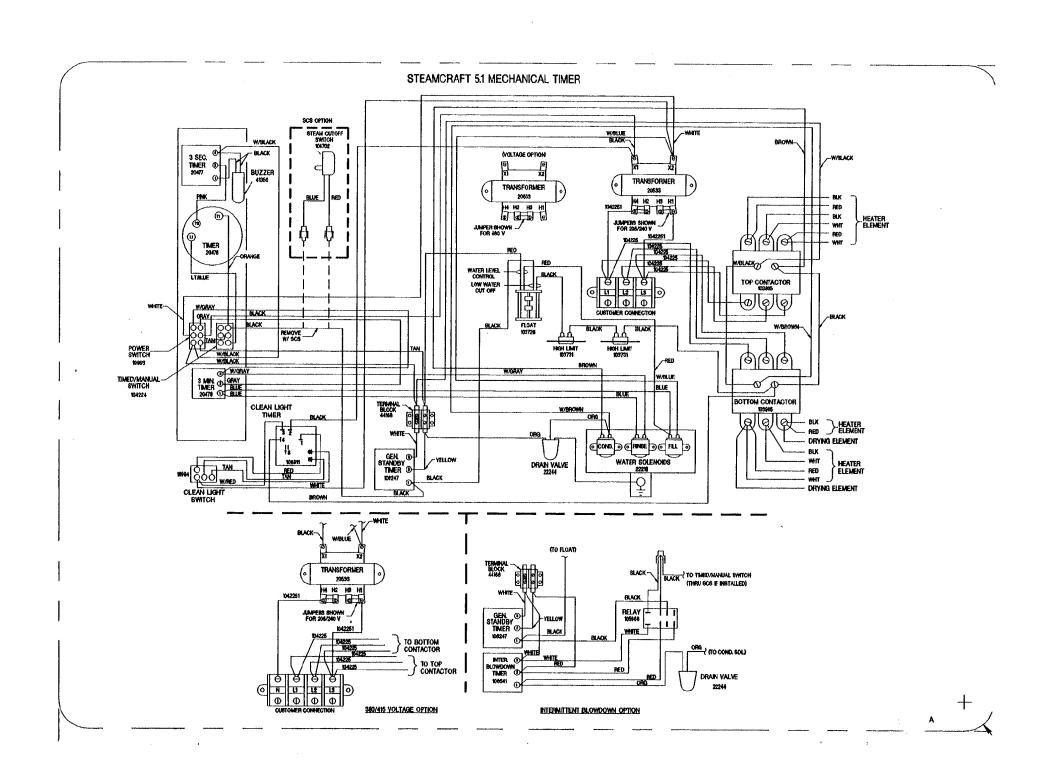
LET.	REVISIONS	DATE	BY
٨	WAS: HIGH LIMIT NOW: FLOAT PER E.O. IC-2381 RI	93-01-93	PJC
В	20351 BLACK WAS FROM FLOAT ONLY	04-14-93	PJC



3	2	105449	SCREW, TRUSS HD. 6-32 X .312, S/S	
2	1	105442	GUARD, SWITCH PROTECTION	
	-	104702	SWITCH, CMPT. STEAM SHUT-OFF	
ITEM	QTY.	PART NO.	DESCRIPTION	
TOLERANCES (DOCT) AS NOTED) DECTIMAL		CLEVELAND RANGE INC. 1933 Est 179th St. Cleveling, Onto 44110-2574 SCALE DRAWN BY JAPPROVED BY		
1.030		NTS	DUTCHMAN	
ANOULAN .		STEAM OUT-OFF OPTION STEAMCRAFT 3.1 AND 5.1		
а	ĸ	02-03-93	ORAWING NO. C - 106355 REV. B	





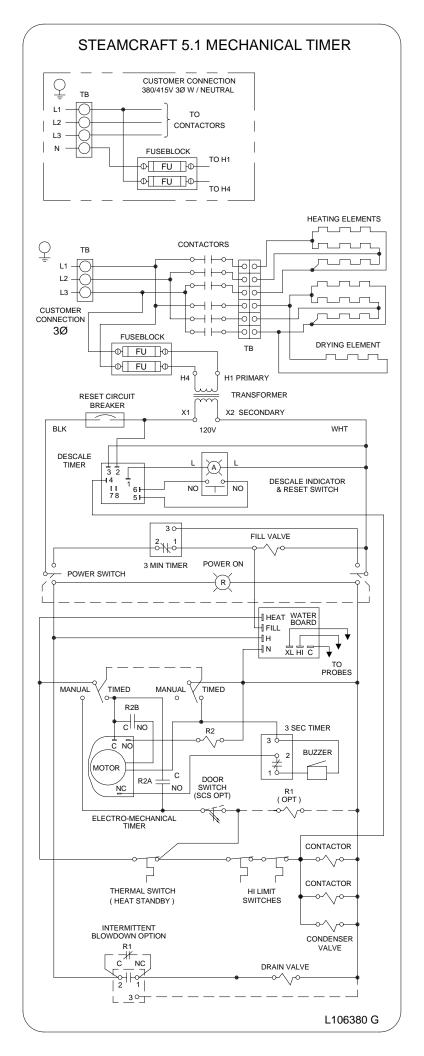


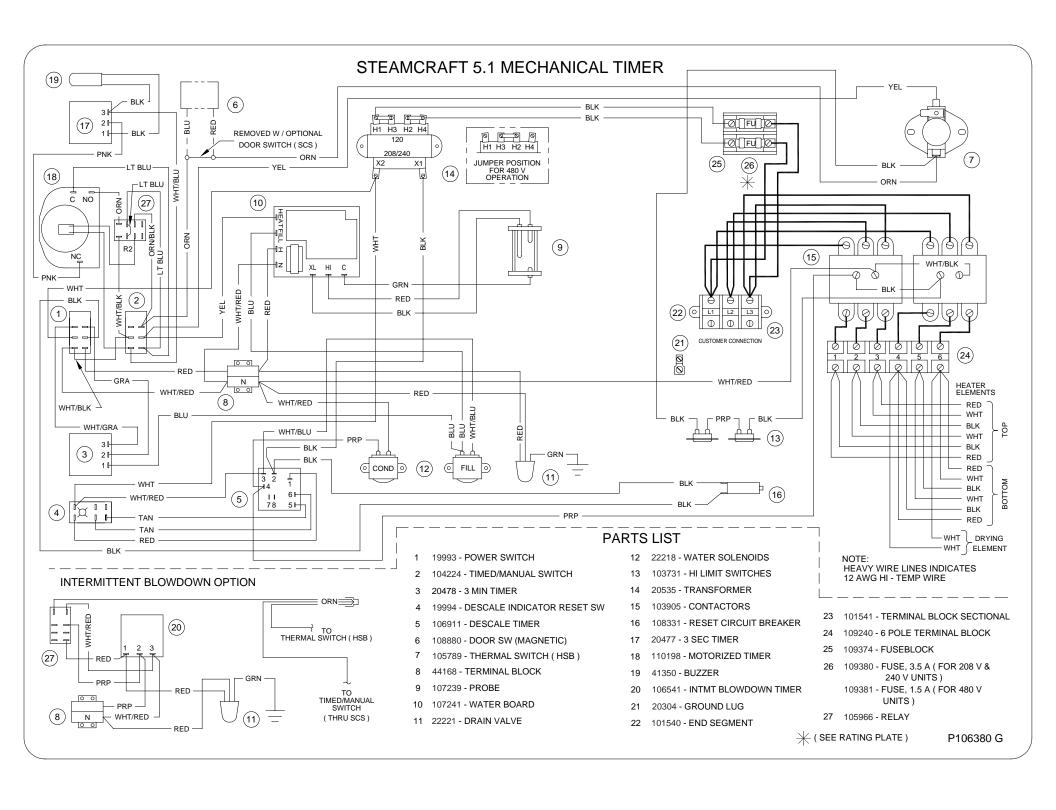
CLEVELAND RANGE 21CET16 SEQUENCE OF OPERATIONS

Mechanical Timer

- 1. Supply power is sent to the primary of the main transformer.
 - 115 VAC is sent from the secondary of the main transformer to the on/off rocker,
- 1. To turn the unit on, depress the red on/off rocker switch.
 - 115 VAC is sent to the red indicator light.
 - 115 VAC is sent to the normally open drain valve closing it.
 - 115 VAC is sent to H and N of the water level board
- 2. With the water level board energized and no water in the generator
 - After a 5 second delay, 115 VAC is sent from the FILL terminal to the fill solenoid.
 - The fill solenoid opens and the generator fills through the drain valve.
 - The water fills to the low probe shorting it to ground
 - 115 VAC is sent from the HEAT terminal to the timed manual switch.
 - 115 VAC is sent to the preheat thermostat.
 - 115 VAC is then sent through the high limits to the coil of condensate solenoid.
 - The condensate solenoid opens sending cold water down the compartment drain.
 - 115 VAC is also sent through the high limits to the coil of the contactor.
 - When the contactor is energized supply voltage is sent to both of the elements.
 - The heat circuit will stay energized until the preheat thermostat opens at 185 degrees.
- 3. When the timed/manual switch is in the timed position and time is on the timer
 - 115 VAC is sent from the timer to the coil of the R2 relay
 - The R2 relay energizes
 - R2B contacts close and 115 VAC is sent to the motor of the timer
 - R2A contacts close and 115 VAC is through the optional door switch to the normally closed contacts of the high limits
 - 115 VAC is then sent through the high limit to the coil of condensate solenoid and the coil of the mercury contactor.
 - 115 VAC is sent to the clean light timer.
 - When the clean light timer times down 115 VAC is sent to the clean light switch.
 - When the clean light switch is depressed the clean light timer is reset.
- 4. When the contactor is energized supply voltage is sent to both of the elements.
- 5. When the timer times out 115 VAC is sent to the 3 second timer and then to the buzzer for 3 seconds.
- 6. When the water level reaches the high probe then 115 VAC is removed form the FILL terminal and the fill solenoid is turned off.

- 7. After the water level drops below the high probe for 5 seconds 115 VAC is sent to the FILL terminal again.
- 8. The red on/off rocker switch is depressed and the unit is turned off.
 - 115 VAC is removed from the timer and heat circuits.
 - 115 VAC is removed from the normally open drain valve allowing the steamer to drain.
 - 115 VAC is sent to the 3-minute timer and the fill solenoid is energized for 3 minutes flushing the drain.



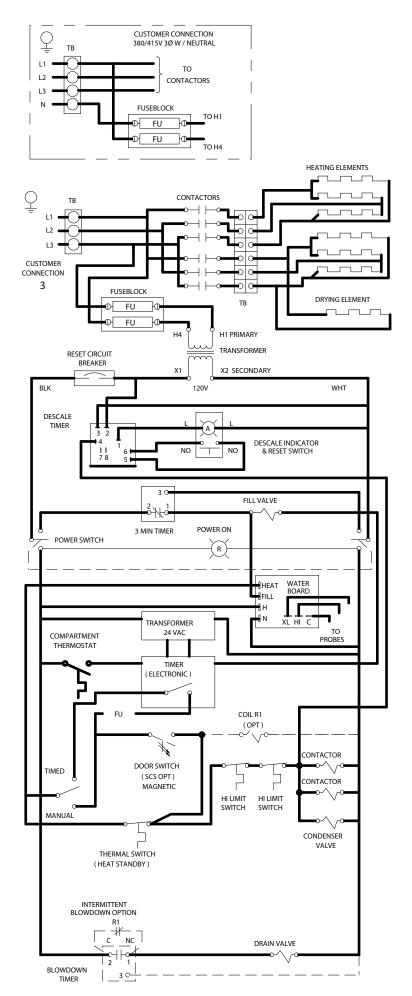


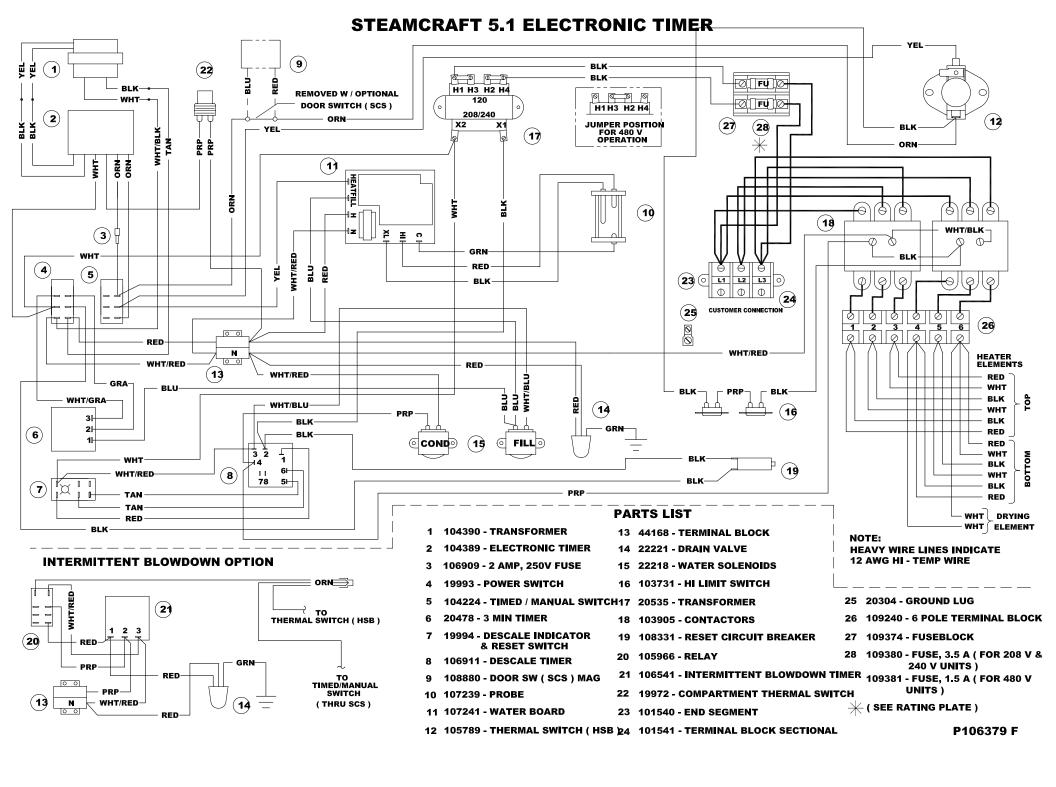
CLEVELAND RANGE 21CET16 SEQUENCE OF OPERATIONS

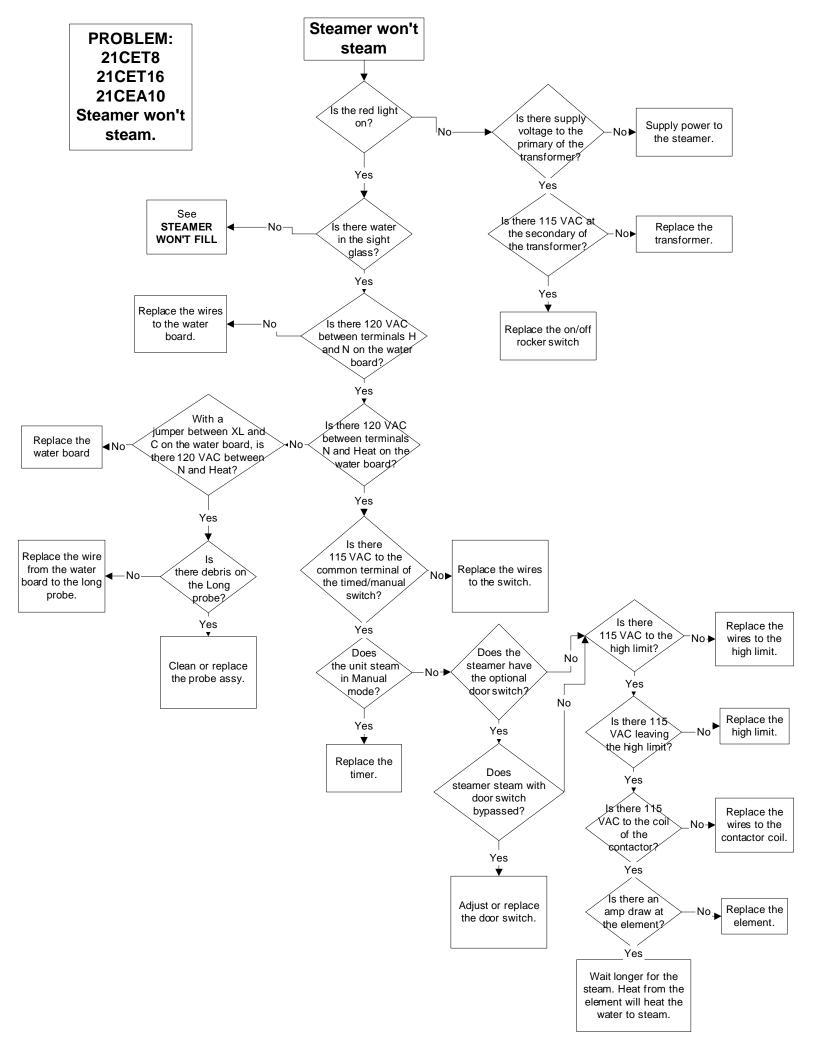
Electronic Timer With preheat thermostat

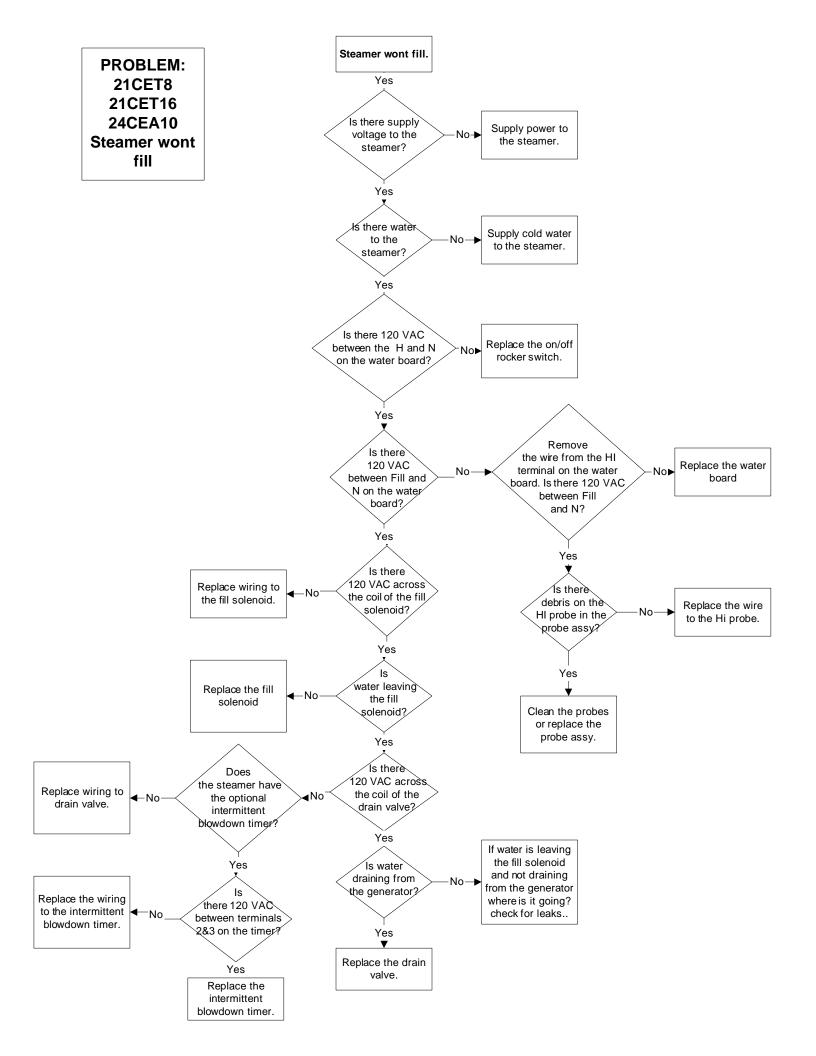
- 1. Supply power is sent to the primary of the main transformer.
 - 115 VAC is sent from the secondary of the main transformer to the on/off rocker,
- 2. To turn the unit on, depress the red on/off rocker switch.
 - 115 VAC is sent to the red indicator light.
 - 115 VAC is sent to the normally open drain valve closing it.
 - 115 VAC is sent to H and N of the water level board
 - 115 VAC is sent to the 24 VAC transformer for the electronic timer.
 - 115 VAC is sent to the normally open compartment thermostat switch.
- 3. With the water level board energized and no water in the generator
 - After a 5 second delay 115 VAC is sent from the FILL terminal to the fill solenoid.
 - The fill solenoid opens and the generator fills through the drain valve.
 - The water fills to the low probe shorting it to ground
 - 115 VAC is sent from the HEAT terminal to the timed manual switch.
 - 115 VAC is sent to the preheat thermal switch.
 - 115 VAC is then sent through the high limit to the coil of condensate solenoid.
 - The condensate solenoid opens and cold water is sent down the compartment drain.
 - 115 VAC is also sent through the high limit to the coil of the contactor.
 - When the contactor is energized supply voltage is sent to both of the elements.
 - The heat circuit will stay energized until the preheat thermostat reaches 185 degrees.
- 4. When the timed/manual switch is in the timed position and time is on the timer
 - 115 VAC is sent from the timer through the door switch to the normally closed contacts of the high limit
 - 115 VAC is then sent through the high limit to the coil of condensate solenoid and the coil of the contactor.
 - 115 VAC is sent to the clean light timer.
 - When the clean light timer times down 115 VAC is sent to the clean light switch.
 - When the clean light switch is depressed the clean light timer is reset.
- 5. When the contactor is energized supply voltage is sent to both of the elements.
 - Steam is energized and sent to the cooking compartment.
 - When the cooking compartment reaches 193 degrees the compartment thermostat closes sending 115 VAC to the timer.
 - The timer will then begin counting down.

- When the timer times down a buzzer will sound and the timer will open removing 115 VAC from the heat circuit.
- 6. When the water level reaches the high probe then 115 VAC is removed form the FILL terminal and the fill solenoid is turned off.
- 7. After the water level drops below the high probe for 5 seconds 115 VAC is sent to the FILL terminal again.
- 8. The red on/off rocker switch is depressed and the unit is turned off.
 - 115 VAC is removed from the timer and heat circuit.
 - 115 VAC is removed from the normally open drain valve allowing the steamer to drain.
 - 115 VAC is sent to the 3-minute timer and the fill solenoid is energized for 3 minutes flushing the drain.

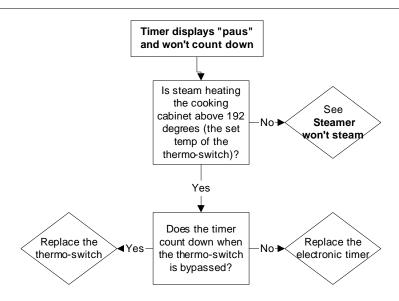




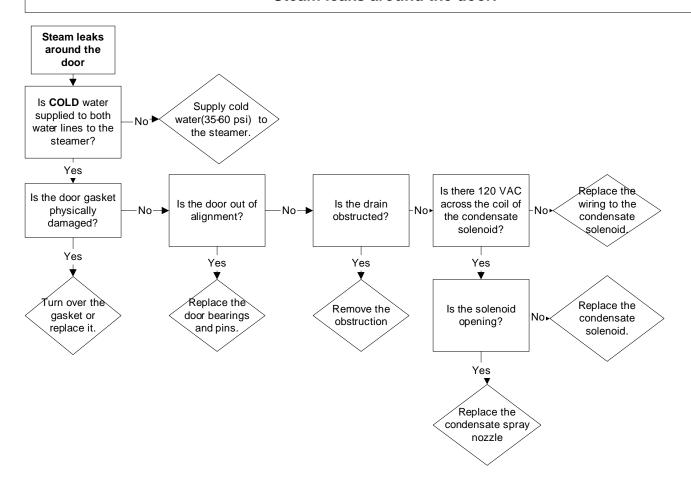


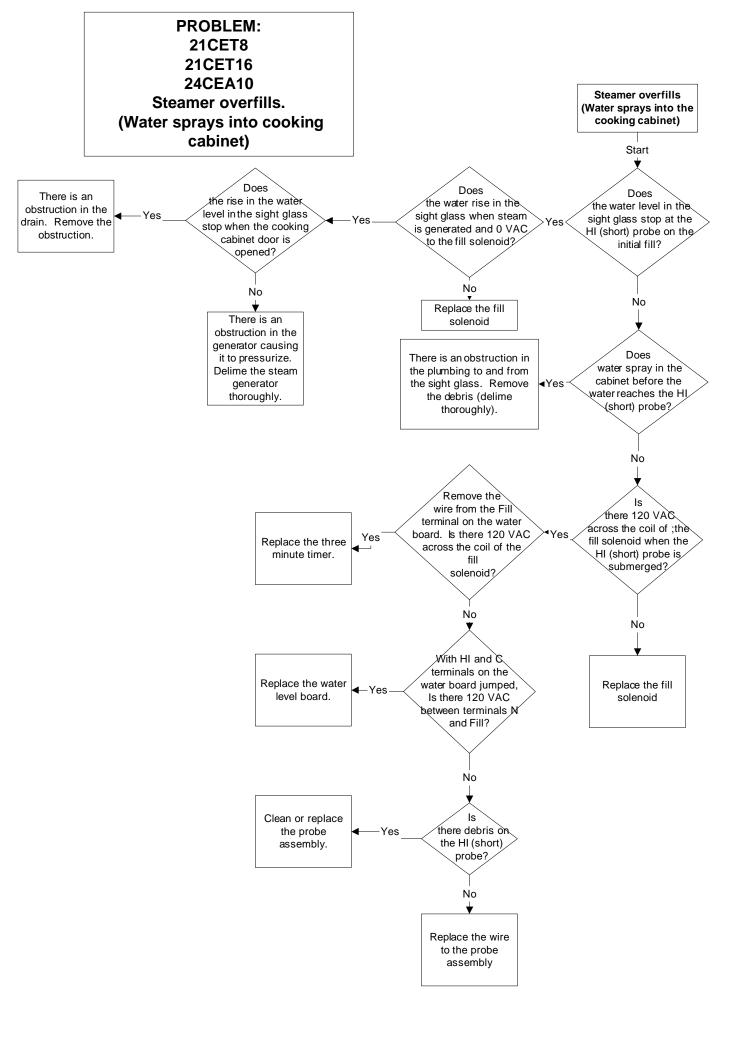


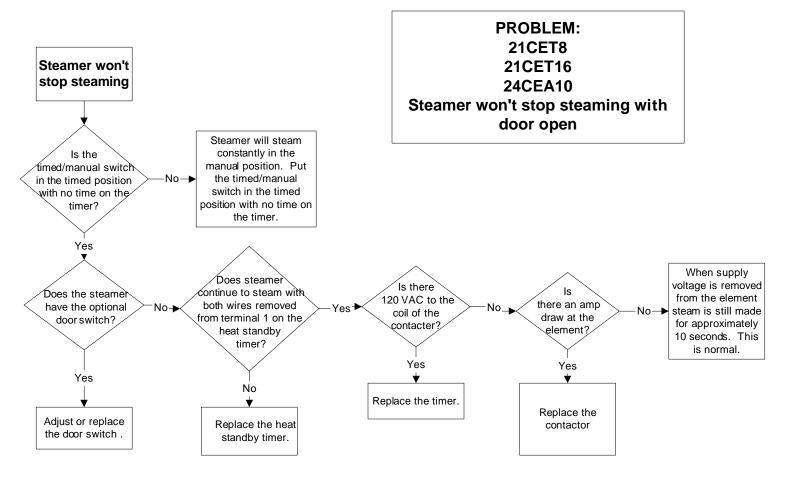
PROBLEM: 21CET8, 21CET16, 24CEA10 Electronic timer displays "PAUS" and won't count down

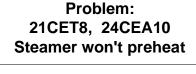


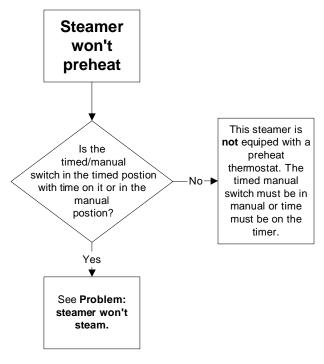
PROBLEM: 21CET8, 21CET16, 24CEA10 Steam leaks around the door.



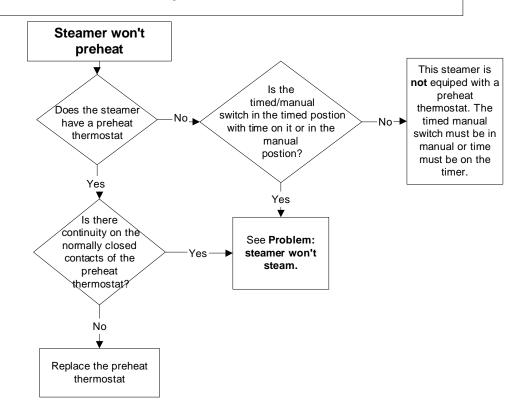




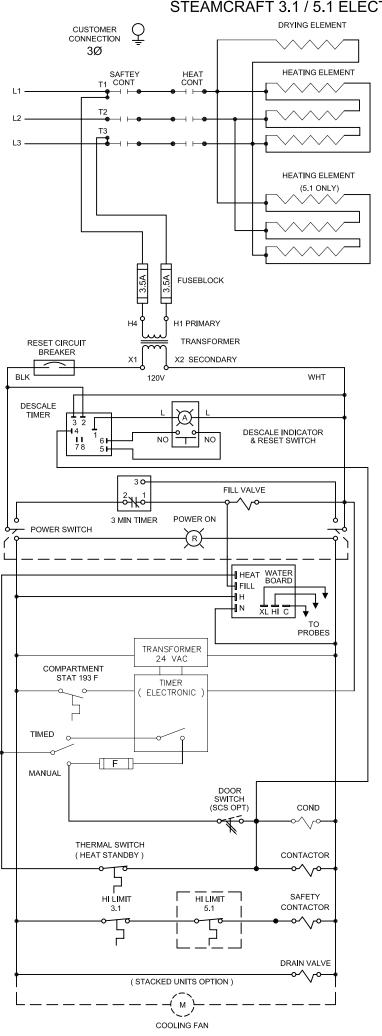


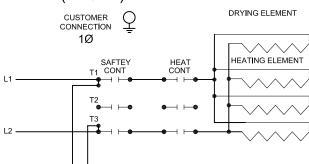


Problem: 21CET16 Steamer won't preheat

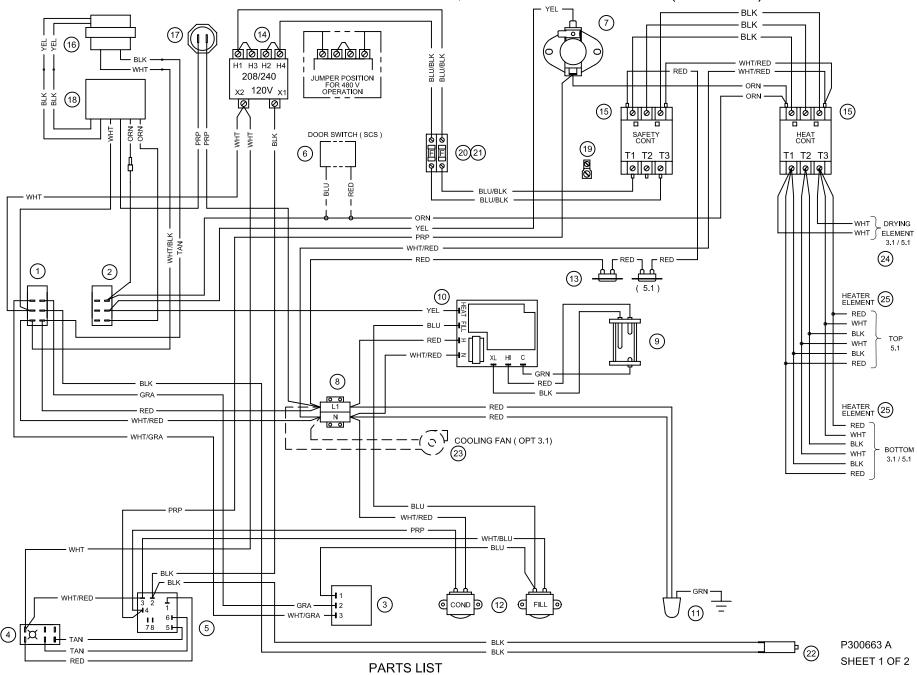


STEAMCRAFT 3.1 / 5.1 ELECTRONIC TIMER (PROBE)





STEAMCRAFT 3.1 / 5.1 ELECTRONIC TIMER (PROBE) CUSTOMER CONNECT AT SAFETY CONTACTOR T1,2 & 3 FOR 3 Ø FOR 1 Ø (3.1 O FOR 1 Ø (3.1 ÓNLY) SEE SHEET 2



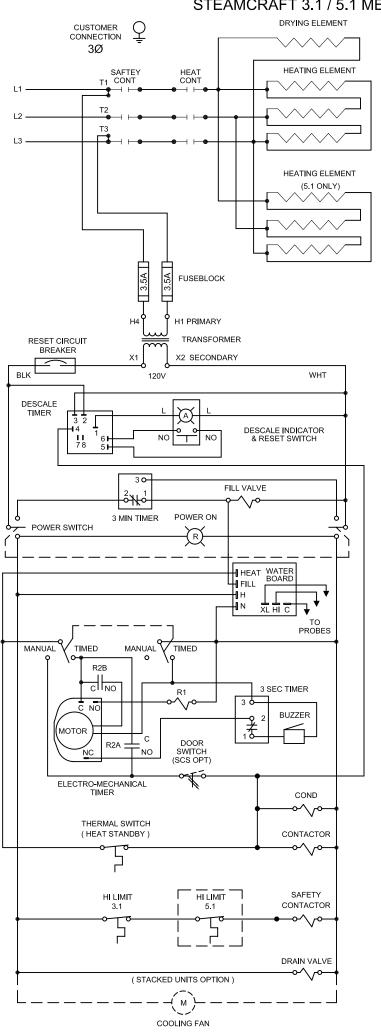
- 19993 POWER SWITCH
- 104224 TIMED/MANUAL SWITCH
- 20478 3 MIN TIMER
- 19994 DESCALE INDICATOR RESET SW
- 106911 DESCALE TIMER

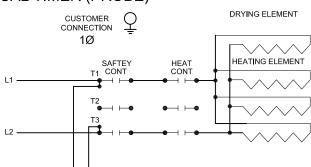
- 108880 DOOR SW (MAGNETIC)
- 105789 THERMAL SWITCH (HSB)
- 44168 TERMINAL BLOCK
- 107239 PROBE
- 107241 WATER BOARD
- 22221 DRAIN VALVE
- 22218 WATER SOLENOIDS
- 103731 HI LIMIT SWITCHES
- 20535 TRANSFORMER
 - 03509 CONTACTORS
- 104390 TRANSFORMER
- 19972 COMP THERMAL SW
- 104389 ELECTRONIC TIMER

109374 - FUSE BLOCK

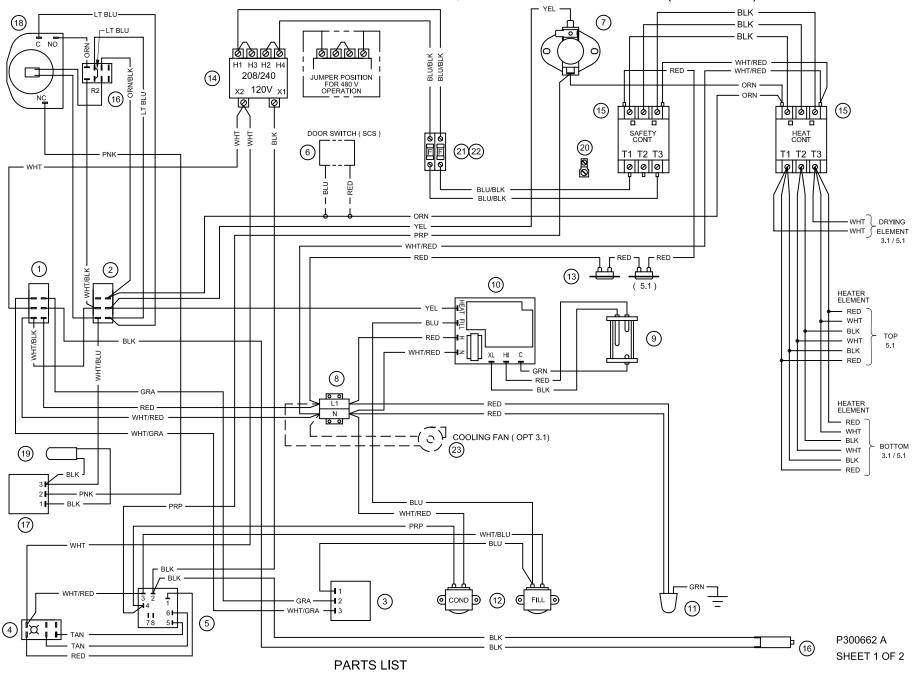
- 20304 GROUND LUG
- 109380 FUSE, 3.5A
- 108331 RESET CIRCUIT BREAKER
- 107211 COOLIN FAN (OPT 3.1)

STEAMCRAFT 3.1 / 5.1 MECHANICAL TIMER (PROBE)





STEAMCRAFT 3.1 / 5.1 MECHANICAL TIMER (PROBE) CUSTOMER CONNECT AT SAFETY CONTACTOR T1,2 & 3 FOR 3 Ø FOR 1 Ø (3.1 ÓNLY) SEE SHEET 2



- 19993 POWER SWITCH
- 104224 TIMED/MANUAL SWITCH
- 20478 3 MIN TIMER
- 19994 DESCALE INDICATOR RESET SW
- 106911 DESCALE TIMER

- 108880 DOOR SW (MAGNETIC)
- 105789 THERMAL SWITCH (HSB)
- 44168 TERMINAL BLOCK
- 107239 PROBE
- 10 107241 WATER BOARD
- 11 22221 DRAIN VALVE
- 22218 WATER SOLENOIDS 12
- 103731 HI LIMIT SWITCHES
- 20535 TRANSFORMER 03509 - CONTACTORS

15

- 105966 RELAY
- 20477 3 SEC TIMER
- 110198 MOTORIZED TIMER

20304 - GROUND LUG

- 41350 BUZZER
- 109374 FUSE BLOCK
- 109380 FUSE, 3.5A
- 107211 COOLIN FAN (OPT 3.1)



Descaling Procedure-SteamCraft Ultra and Gemini Series

How Much DISSOLVE to Use	
Model	Dissolve
Ultra 3	1/2 Gallon
Ultra 5	1 Gallon
Ultra 10 (Elec.)	1 Gallon (ea.)
Ultra 10 (Gas)	1½ Gallon
Gemini 6 & 10	1 Gallon (ea.)

1. Turn the unit OFF and open the doors:

This will drain and rinse the generator for about 3 minutes.

2. Turn the unit power back On:

The generator will begin to refill with water.

3. Select Timed with the Timed/Manual switch:

DO NOT start the timer, since you do not want to heat the water during descaling. Leave the doors open.

4. Remove descaling port cap and add with the specified amount of DISSLOVE: (See chart above)

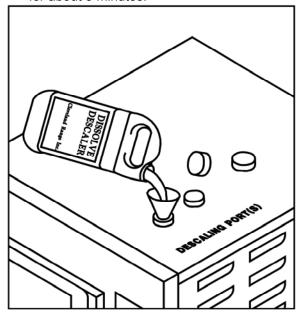
Do this while the unit is refilling. The generators can take-up to 8 minutes to refill.

 After refill has stopped, add extra tap water into the descaling port until liquid is seen entering the cooking cabinet. Note: Ultra 10 gas will have liquid coming out of the drain,

Adding extra water when descaling will raise the descaling solution higher than the normal fill level, allowing the DISSOLVE to work on sensors and surfaces above the water line

Note: Some SteamCraft Ultra models (the electric powered Ultra 10 and Gemini 6 and 10, for example) have two generators and two descaling ports. Both units should be descaled at the same time, using this procedure

- 6. Let the descaler soak in generator for approximately one hour:
- After one hour, turn the unit power
 Off: This will drain and rinse the generator for about 3 minutes.



- 8. After the 3-minute drain cycle completes, turn the unit back ON. After the filling has stopped, add water until liquid enters the cooking compartment (or drain for the ultra 10 gas), and then turn the unit OFF. This will drain and flush any residue from the water level control assembly. Replace descaling cap.
- After the 3 minute drain cycle completes, Turn the unit ON and set the Timer for 20 minutes: Make sure the Time/Manual switch is in the timed setting and the doors are closed.
- 10. When the timer times out (after 20 minutes) turn the power Off:

This will drain and rinse the generator for about 3 minutes.

This ends the descaling procedure. You can now turn the unit back on and resume normal startup and cooking operations.