

# Parts Manual

## Gas Floor Type Convection Steamer



**Series: SteamCraft Model 24CGA10**

1333 East 179<sup>th</sup> Street  
Cleveland, Ohio 44110

Phone: (216) 481-4900  
1-800-338-2204

Fax: (216) 481-3782  
[www.clevelandrange.com](http://www.clevelandrange.com)

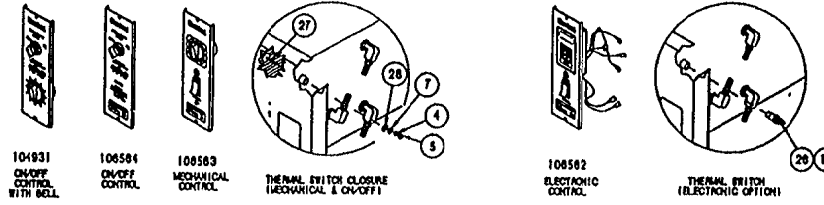
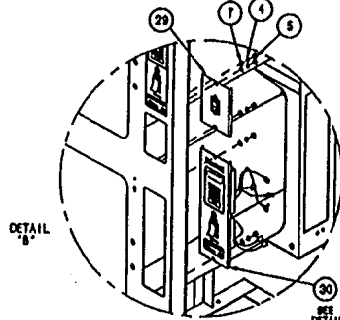
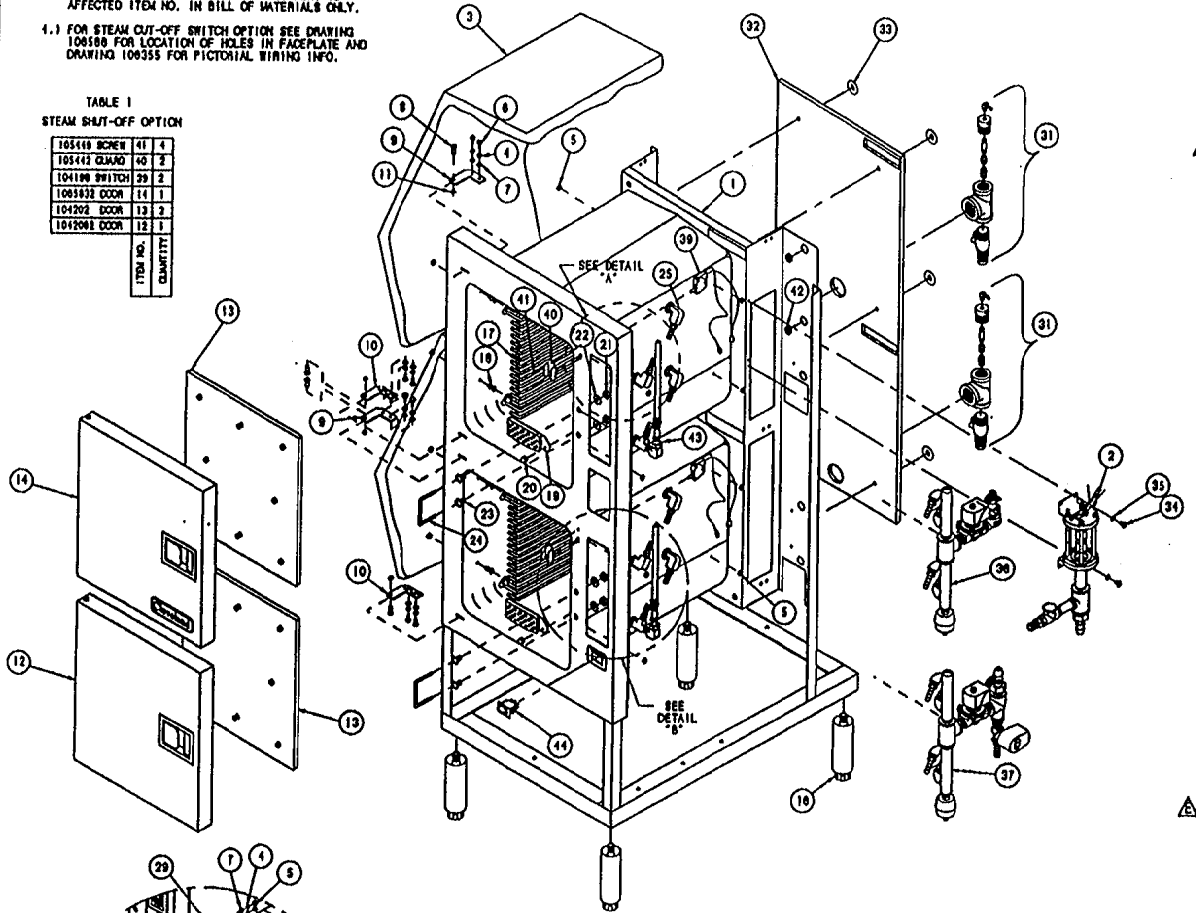
 Cleveland

NOTES:

- 1.) SEE DRAWING 106002 FOR HOSE DETAIL.
- 2.) SEE INSTRUCTION DRAWING 106139 FOR LABELS AND LABEL LOCATIONS.
- 3.) REVISION SYMBOLS (Δ) ARE PLACED NEXT TO AFFECTED ITEM NO. IN BILL OF MATERIALS ONLY.
- 1.) FOR STEAM SHUT-OFF SWITCH OPTION SEE DRAWING 106580 FOR LOCATION OF HOLES IN FACEPLATE AND DRAWING 106355 FOR PICTORIAL WIRING INFO.

TABLE 1  
STEAM SHUT-OFF OPTION

ITEM NO.	QUANTITY
105416 SCREW	41
105412 GASKET	40
104198 SWITCH	29
106582 DOOR	11
104202 DOOR	13
104204 DOOR	13



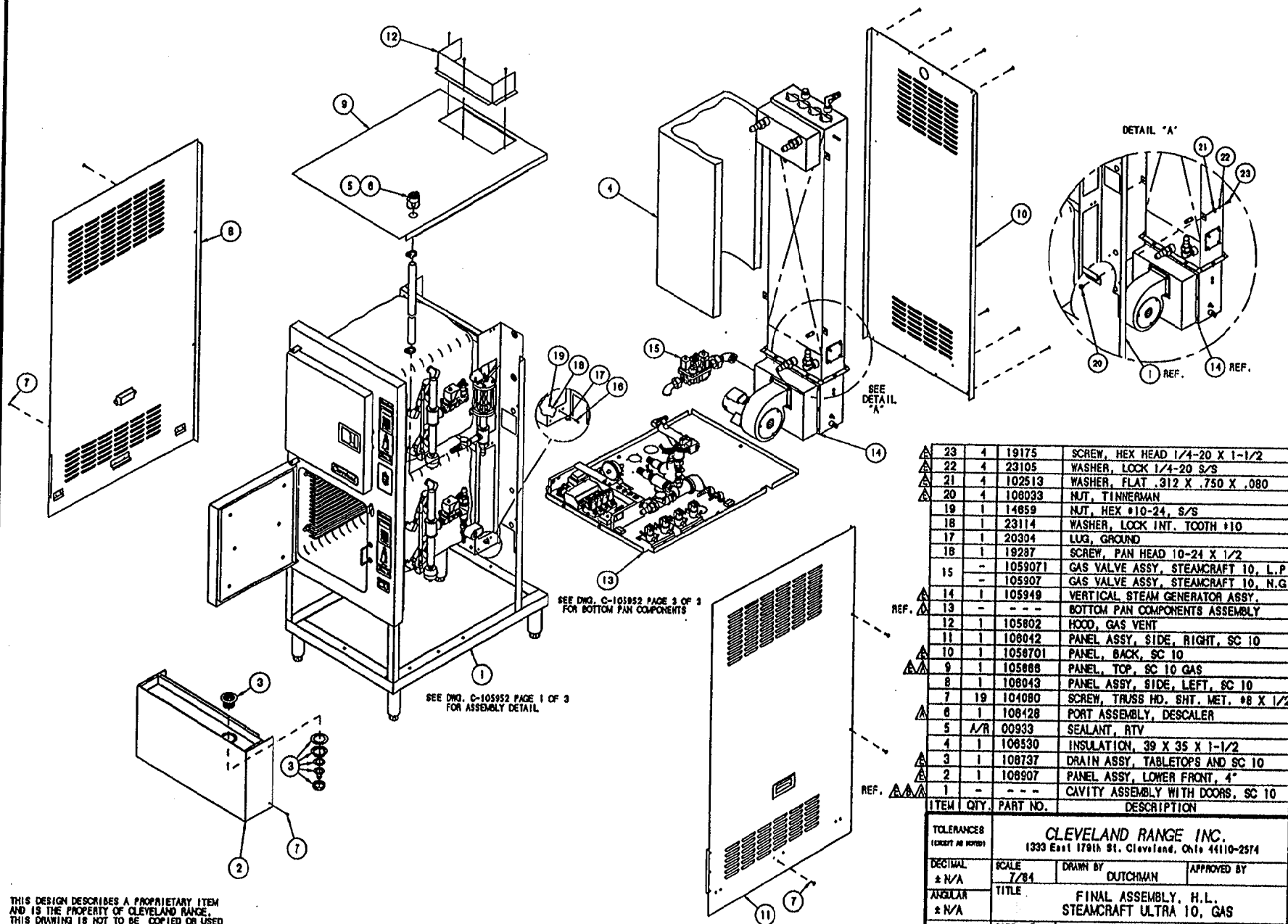
TIMER OPTIONS - DETAIL A

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.

LET.	REVISIONS	DATE	BY
A	SEE EO #C-2123	05-20-93	P.J.D.
B	SEE EO #C-2131	06-01-93	P.J.D.
C	SEE EO #C-2452 R1	09-29-93	P.J.D.
D	SEE EO #C-2448 R1	11-05-93	P.J.D.
E	SEE EO #C-2882	12-05-94	P.J.D.

ITEM	QTY.	PART NO.	DESCRIPTION
44	1	19994	SWITCH, ROCKER, SPST (CLEAN LIGHT)
43	2	1070591	BREATHER/SPRAY NOZZLE ASSY. (1/2" HOSE)
42	2	02800	BUSHING, HEYCO
41	-	105449	SCREW, TRUSS HD. 8-32 X .312, S/S
40	-	105442	GUARD, SWITCH PROTECTION
39	-	104198	SWITCH ASSY, CMPT. STEAM SHUT-OFF
-	-	106188	WIRE HARNESS, ON/OFF W/BELL, SC10
-	-	106188	WIRE HARNESS, ON/OFF, SC10
-	-	106188	WIRE HARNESS, MECH. CONTROL, SC 10
-	-	106187	WIRE HARNESS, ELECT. CONTROL, SC 10
37	1	105891	STEAM INLET ASSY, LOWER COMPARTMENT
38	1	105880	STEAM INLET ASSY, UPPER COMPARTMENT
35	2	101855	WASHER, FLAT #10 S/S
34	2	106123	SCREW, TORX/SLOT 10-32 X 1/2
33	6	101953	CLIP, INSULATION RETAINER
32	1	106235	INSULATION, BODY REAR
31	2	1061711	DRAIN ASSEMBLY, SC 10
-	-	104931	TIMER ASSY, ON/OFF W/BELL, SC 10
-	-	106584	TIMER ASSY, ON/OFF CONTROL, SC 10
-	-	106583	TIMER ASSY, MECH. CONTROL, SC 10
-	-	106582	TIMER ASSY, ELECTRIC CONTROL, SC 10
29	1	106703	PANEL ASSY, POWER SWITCH
28	2	23136	WASHER, FLAT 3/8 X 7/8 X 1/16 THK.
27	2	104709	CLOSURE, THERMAL OPENING
26	2	19972	SWITCH, THERMAL CLOSURE
25	8	1062301	STEAM NOZZLE ASSY, STEAMCRAFT
24	2	104046	CATCH, DOOR
23	4	14695	NUT, DOOR CATCH MOUNTING, S/S
22	4	23149	WASHER, NYLON, TYPE 6/8
21	4	14649	NUT, HEX 1/2-13, ZINC PLATED
20	2	14677	NUT, ACOORN
19	2	69298	SCREEN, COMPARTMENT DRAIN, POLYPROP
18	16	101305	PIN, RACK
17	4	414232	RACK, PAN SLIDE, 16"
16	4	08156	LEG, BULLET
15	A/R	00934	SEALANT, RECTORSEAL
14	-	106583	DOOR, OUTER ASSY. H.L. W/LOGO, W/ACTUATOR
-	-	106583	DOOR, OUTER ASSY. H.L. W/LOGO
13	2	104202	DOOR, INNER ASSY. H.L.
-	-	104206	DOOR, OUTER ASSY. H.L. W/ACTUATOR
-	-	104205	DOOR, OUTER ASSY. H.L.
11	4	104062	RING, SNAP, S/S
10	2	1040731	HINGE ASSY, WELD, LOWER
9	2	1040732	HINGE ASSY, WELD, UPPER
8	4	104077	PIN, HINGE
7	16	23116	WASHER, FLAT 1/4 ID X 5/8 OD, S/S
6	8	19170	SCREW, HEX HD. 1/4-20 X 1/2 S/S
5	24	14618	NUT, HEX 1/4-20 S/S
4	16	23105	WASHER, LOCK S/S 1/4 KATLINK STYLE
3	2	104193	INSULATION, BODY, CUT
2	1	106540	FLOAT & DESCALER ASSY, SC 10, GAS
1	1	105661	CAVITY WELD ASSY, STEAMCRAFT 10

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC.	
DECIMAL	SCALE	1333 East 179th St., Cleveland, Ohio 44110-2574	DRAWN BY
± N/A	1/8		DUTCHMAN
ANGULAR	TITLE		APPROVED BY
± N/A	FINAL ASSEMBLY, H.L.		
	STEAMCRAFT ULTRA 10, GAS		
CK	DATE	DRAWING NO.	REV.
	08-03-92	C - 105952	PAGE 1 OF 3 E



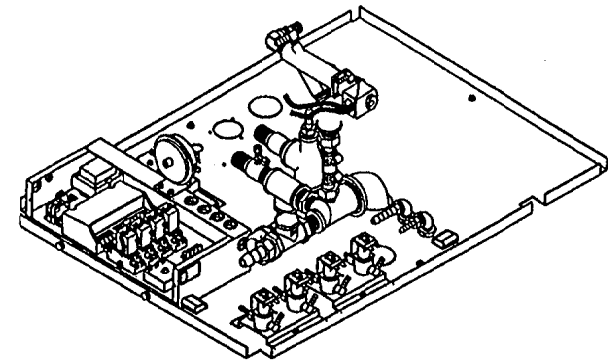
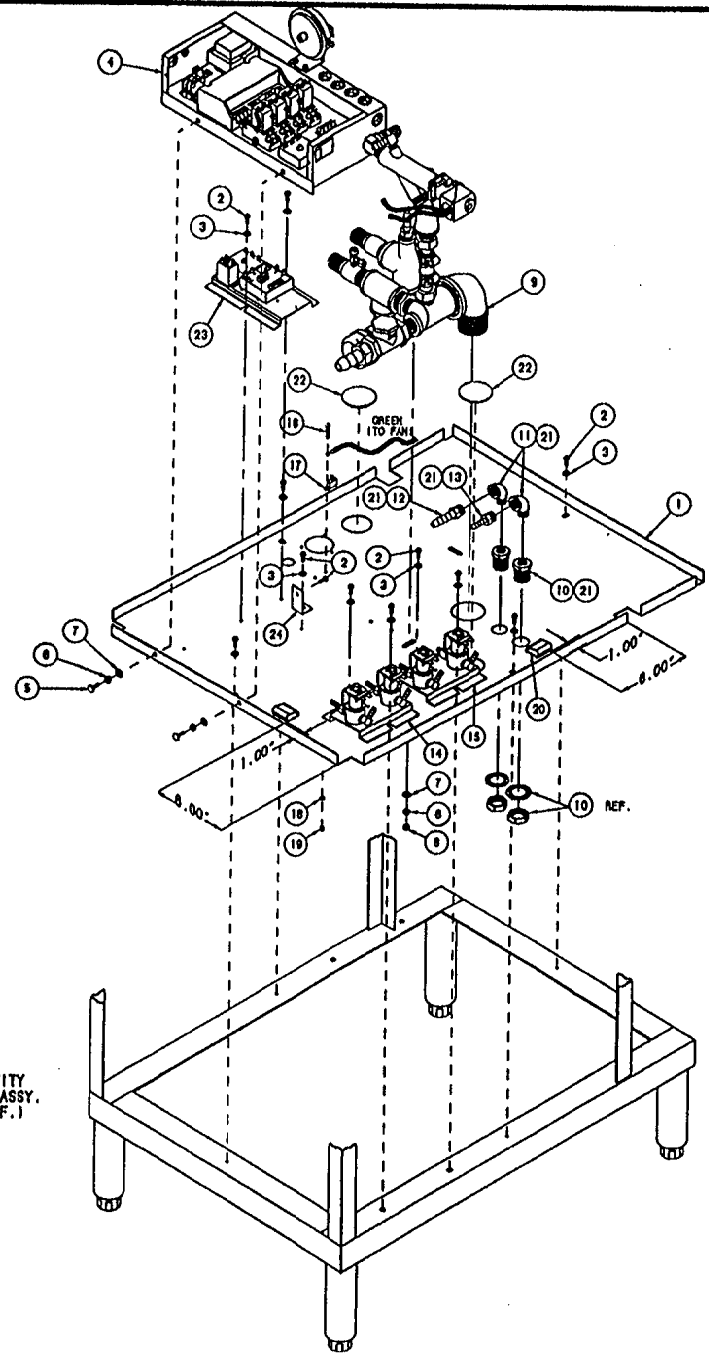
SEE DRG. C-105952 PAGE 3 OF 3 FOR BOTTOM PAN COMPONENTS

SEE DRG. C-105952 PAGE 1 OF 3 FOR ASSEMBLY DETAIL.

ITEM	QTY.	PART NO.	DESCRIPTION
REF. 23	4	19175	SCREW, HEX HEAD 1/4-20 X 1-1/2
REF. 22	4	23105	WASHER, LOCK 1/4-20 S/S
REF. 21	4	102513	WASHER, FLAT .312 X .750 X .080
REF. 20	4	108033	NUT, TINNEMAN
REF. 19	1	14859	NUT, HEX #10-24, S/S
REF. 18	1	23114	WASHER, LOCK INT. TOOTH #10
REF. 17	1	20304	LUG, GROUND
REF. 16	1	19287	SCREW, PAN HEAD 10-24 X 1/2
REF. 15	-	1059071	GAS VALVE ASSY, STEAMCRAFT 10, L.P.
REF. 14	-	105907	GAS VALVE ASSY, STEAMCRAFT 10, N.G.
REF. 13	-	- - -	VERTICAL STEAM GENERATOR ASSY.
REF. 12	-	- - -	BOTTOM PAN COMPONENTS ASSEMBLY
REF. 11	1	105802	HOOD, GAS VENT
REF. 10	1	108042	PANEL ASSY, SIDE, RIGHT, SC 10
REF. 9	1	1058701	PANEL, BACK, SC 10
REF. 8	1	105888	PANEL, TOP, SC 10 GAS
REF. 7	19	108043	PANEL ASSY, SIDE, LEFT, SC 10
REF. 6	1	104080	SCREW, TRUSS HD. SHT. MET. #8 X 1/2
REF. 5	A/R	108428	PORT ASSEMBLY, DESCALER
REF. 4	1	00933	SEALANT, RTV
REF. 3	1	106530	INSULATION, 39 X 35 X 1-1/2
REF. 2	1	108737	DRAIN ASSY, TABLETOPS AND SC 10
REF. 1	1	108907	PANEL ASSY, LOWER FRONT, 4"
REF. 1	-	- - -	CAVITY ASSEMBLY WITH DOORS, SC 10

<p>TOLERANCES (EXCEPT AS NOTED)</p>			
<p><b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574</p>			
DECIMAL ± 1/A	SCALE 7/84	DRAWN BY DUTCHMAN	APPROVED BY
ANGULAR ± N/A	TITLE FINAL ASSEMBLY, H.L. STEAMCRAFT ULTRA 10, GAS		
CK	DATE 08-03-92	DRAWING NO. C - 105952	PAGE 2 REV. E

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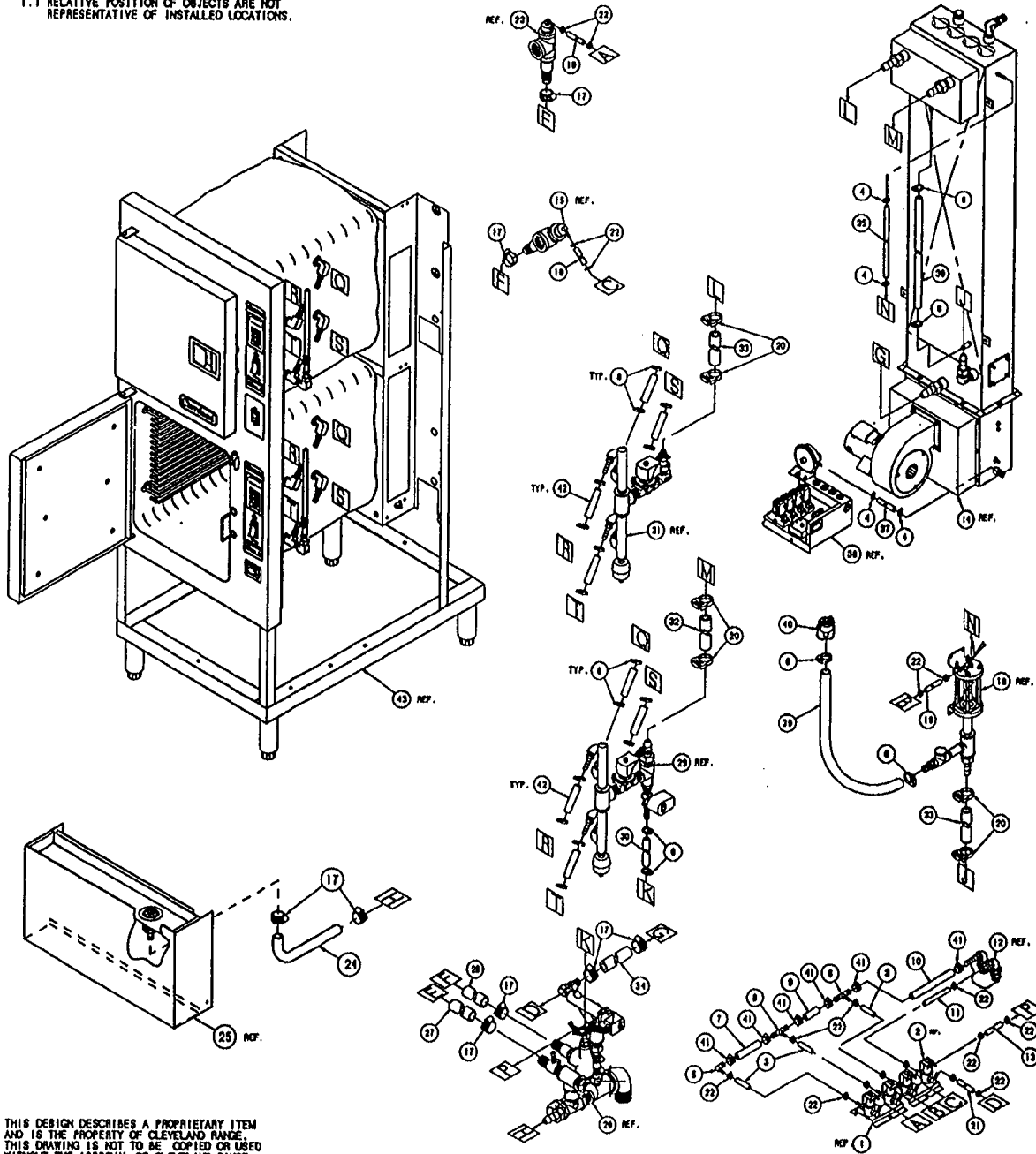
ITEM	QTY.	PART NO.	DESCRIPTION
24	1	105955	BRACKET, CONTROL MOUNT, GAS
23	1	107043	HEAT STANDBY, ULTRA 10 GAS
22	2	107093	PLUG, SWAP, STEEL, FOR 2" DIA. HOLE
21	A/R	00934	ADHESIVE, RECTORSEAL
20	2	23132	CLIP, MOUNTING, WIRE/CABLE 1.250 X 1.500
19	1	14659	NUT, HEX 10-24, S/S
18	1	23114	WASHER, LOCK, INT. TOOTH #10
17	1	20304	LUG, GROUND, SOLDERLESS
16	1	19287	SCREW, RD HD SLTD, #10-24 X 1/2
15	1	105988	WATER INLET ASSY.
14	1	105987	WATER INLET ASSY.
13	1	104382	FITTING, HOSE, 1/4 H X 3/8 NPT
12	1	100746	FITTING, HOSE, 1/2 H X 3/8 NPT
11	2	05280	ELBOW, STREET, 3/8 X 90°, BRASS
10	2	105794	FITTING, BULKHEAD, 3/8 NPT, BRASS
9	1	105750	DRAIN MANIFOLD ASSY., SC 10, GAS
8	1	14616	NUT, HEX, 1/4-20, S/S
7	3	23116	WASHER, FLAT, 1/4, S/S
6	3	23105	WASHER, SPLIT LOCK, 1/4, S/S
5	2	19170	SCREW, HEX HD, 1/4-20 X 5/8, S/S
		1059021	ELECTRIC BOX ASSY., SC 10, GAS (OPTION)
4	1	105902	ELECTRIC BOX ASSY., SC 10, GAS
3	11	101655	WASHER, FLAT #10, S/S
2	12	106123	SCREW, TORX/SLOT 10-32 X 1/2
1	1	105667	PAN, BOTTOM, STEAMCRAFT 10

TOLERANCES (EXCEPT AS NOTED)			
<b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574			
DECIMAL ± .030	SCALE 3/16" = 1"	DRAWN BY DUTCHMAN	APPROVED BY
ANGULAR ± 1°	TITLE FINAL ASSEMBLY, H.L. STEAMCRAFT ULTRA 10, GAS		
CK	DATE 08-03-92	DRAWING NO. C - 105952	REV. PAGE 3 OF 3 E

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NOTES:

1. 1 RELATIVE POSITION OF OBJECTS ARE NOT REPRESENTATIVE OF INSTALLED LOCATIONS.



LET.	REVISIONS	DATE	BY
A	SEE E.O. KC-2301	10-28-92	PJD
B	SEE E.O. KC-2423	05-20-93	PJD
C	SEE E.O. KC-2448 RI	11-05-93	PJD
D	SEE E.O. KC-2597	03-28-94	DLJ
E	SEE E.O. KC-2682	12-05-94	PJD

43	-	- - -	CAVITY WELD ASSY., STEAMCRAFT 10 GAS
42	8	1044880325	HOSE, SILICONE 1/2 ID X 3/4 OD X 3-1/2"
41	6	108219	CLAMP, 3/4" OD HOSE, WORM DRIVE
40	-	108428	PORT ASSEMBLY, DESCALER
39	1	1044882400	HOSE, SILICONE 1/2 ID X 3/4 OD X 24" LG
38	-	105902	ELECTRIC BOX ASSY, SC10, GAS
37	1	1043792900	HOSE, SILICONE 1/4 ID X 1/2 OD X 29" LG
36	1	1044883800	HOSE, SILICONE 1/2 ID X 3/4 OD X 36" LG
35	1	1043791600	HOSE, SILICONE 1/4 ID X 1/2 OD X 16" LG
34	1	085050900	HOSE, DARIPREEN, 3/4" ID X 9" LG.
33	2	1080932300	HOSE, SILICONE 3/4 ID X 3/8 WALL X 23" LG
32	1	1080933700	HOSE, SILICONE 3/4 ID X 3/8 WALL X 37" LG
31	-	105880	STEAM INLET ASSEMBLY, UPPER
30	1	1044881300	HOSE, SILICONE 1/2 ID X 3/4 OD X 13" LG
29	-	105881	STEAM INLET ASSEMBLY, LOWER
28	1	1054922200	HOSE, EPDM, BLACK, 1" ID X 22" LG
27	1	1054894400	HOSE, EPDM, BLACK, 1" ID X 44" LG
26	-	105750	DRAIN MANIFOLD ASSEMBLY
25	-	----	PANEL ASSY, LOWER FRONT, S/C 10
24	1	107010	HOSE, TRAY DRAIN, 3/4" I.D. BLACK EPDM
23	1	----	COMPARTMENT DRAIN ASSY, S/C 10, UPPER
22	18	108528	CLAMP, 1/2" OD HOSE, WORM DRIVE
21	1	1058501800	HOSE, NT-80, 1/4 ID X 1/2 OD X 18" LG
20	6	105847	CLAMP, PLASTIC, 1-1/8 OD HOSE
19	2	1058505200	HOSE, NT-80, 1/4 ID X 1/2 OD X 52" LG.
18	-	108540	FLOAT & DESCALER ASSEMBLY
17	8	03204	CLAMP, WORM DRIVE .812" TO 1.500" DIA.
16	1	1058502800	HOSE, NT-80, 1/4 ID X 1/2 OD X 28" LG.
15	1	----	COMPARTMENT DRAIN ASSY, S/C 10, LOWER
14	-	105949	VERTICAL STEAM GENERATOR ASSY
13	1	1058501200	HOSE, NT-80, 1/4 ID X 1/2 OD X 12" LG
12	2	----	WATER SUPPLY ASSY
11	1	1058500500	HOSE, NT-80, 1/4 ID X 1/2 OD X 5" LG.
10	1	1058490850	HOSE, NT-80, 1/2 ID X 3/4 OD X 8.5" LG.
9	1	1058490200	HOSE, NT-80, 1/2 ID X 3/4 OD X 2" LG
8	2	105790	FITTING, TEE, 1/2 H X 1/2 H X 1/4 H
7	1	1058490350	HOSE, NT-80, 1/2 ID X 3/4 OD X 3.5" LG
6	22	105848	CLAMP, PLASTIC, 3/4" OD HOSE
5	1	105792	FITTING, ELBOW, 90°, 1/4 H X 1/2 H
4	4	104383	CLAMP, NYLON, 1/2" OD HOSE
3	3	1058500200	HOSE, NT-80, 1/4 ID X 1/2 OD X 2" LG.
2	-	105988	VALVE ASSY, WATER INLET
1	-	105987	VALVE ASSY, WATER INLET

PICTORIAL  
QTY. 16

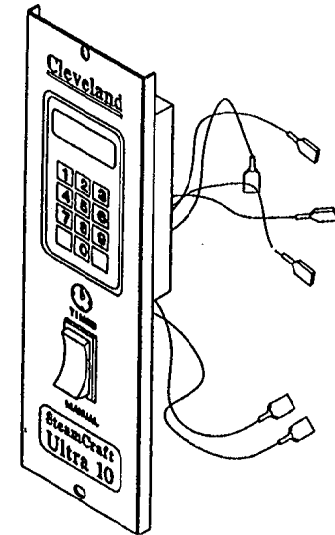
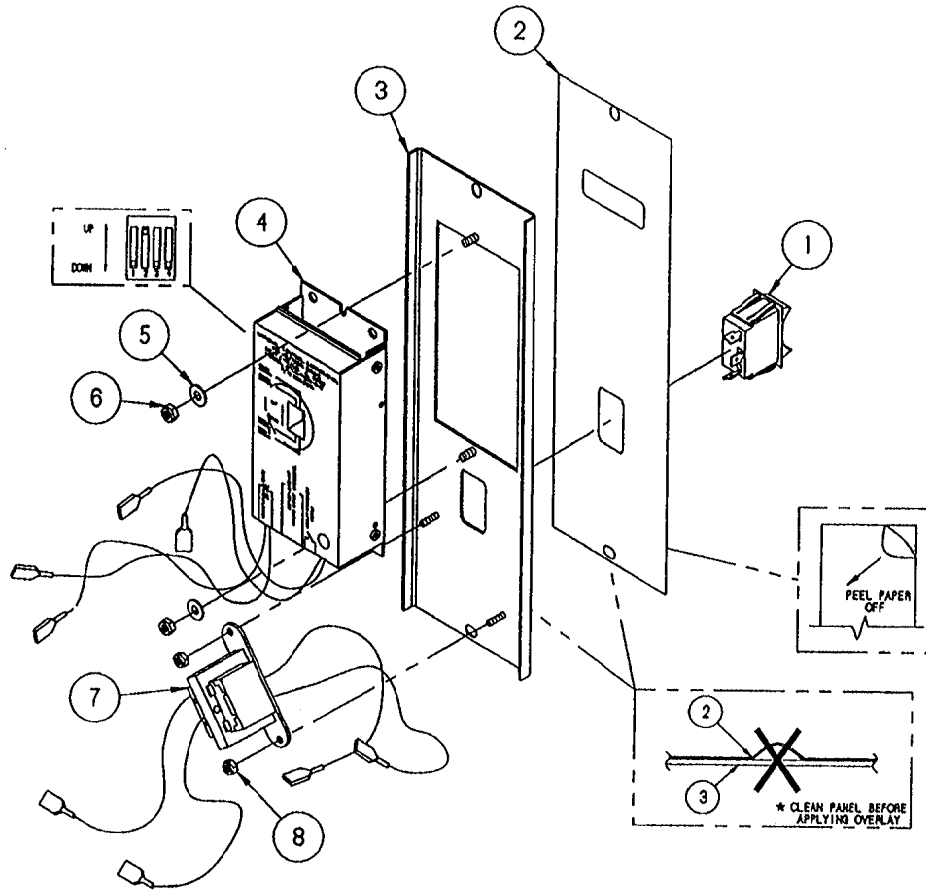
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PICTORIAL

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ITEM	QTY.	PART NO.	DESCRIPTION
TOLERANCES (UNLESS OTHERWISE SPECIFIED)			
DECIMAL ± N/A			
ANGULAR ± N/A			
CK			

<b>CLEVELAND RANGE INC.</b>			
1333 East 179th St. Cleveland, Ohio 44110-2574			
SCALE 1/2"=1"	DRAWN BY S. MILEWSKI	APPROVED BY	
TITLE HOSE DETAIL STEAMCRAFT ULTRA 10. GAS		DATE 07-29-92	DRAWING NO. C - 106002
			REV. E

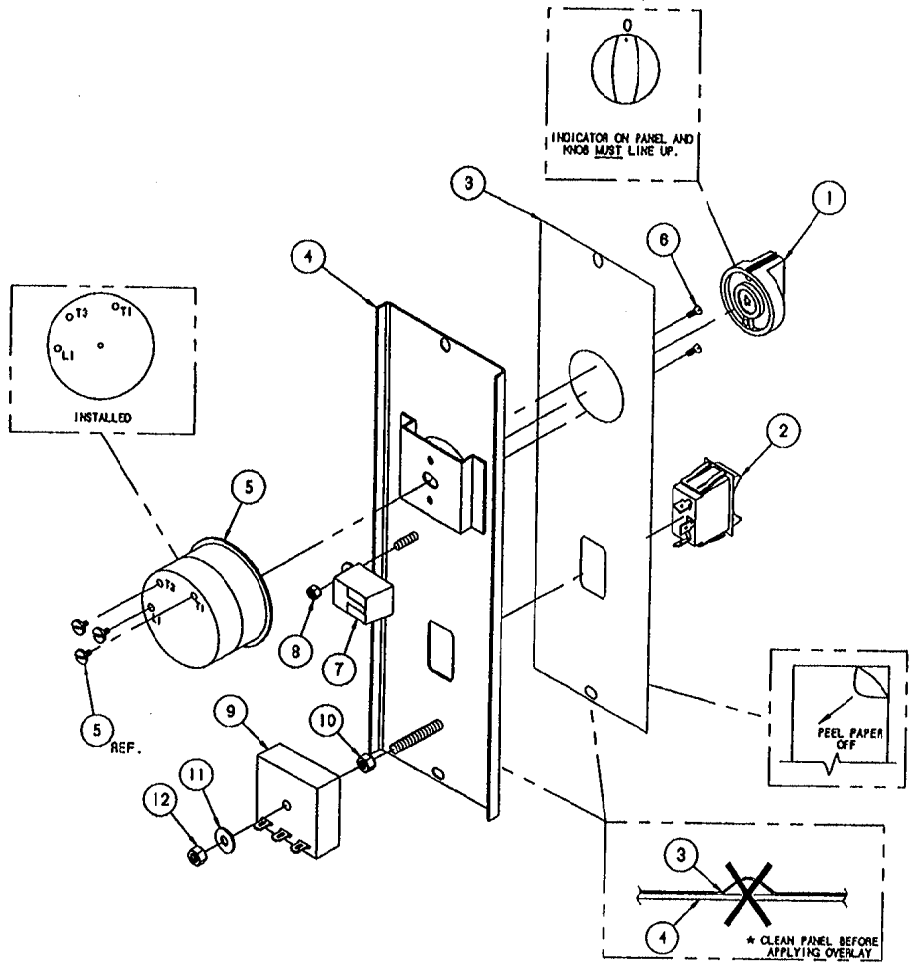
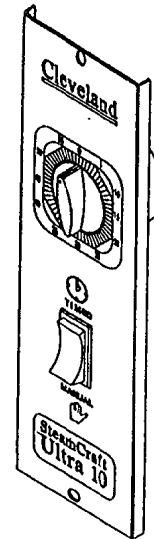


ITEM	QTY.	PART NO.	DESCRIPTION
8	2	104223	NUT, HEX, #6-32, ELASTIC LOCK
7	1	104390	TRANSFORMER ASSEMBLY
6	2	14892	NUT, HEX, #10-24, ELASTIC LOCK
5	2	101655	WASHER, FLAT, #10, S/S
4	1	104389	TIMER ASSEMBLY, NCC
3	1	104704	PANEL, WELDMENT, ELEC TIMER
2	1	106454	LABEL, CONTROL PANEL, ELEC
1	1	104224	SWITCH, ROCKER, SPDT

TOLERANCES (EXCEPT AS NOTED)				CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574			
DECIMAL ± N/A	SCALE 3/8=1	DRAWN BY DUTCHMAN	APPROVED BY				
ANGULAR ± N/A	TITLE TIMER ASS'Y, ELECTRIC CONTROL REAR MOUNTED, STEAMCRAFT ULTRA 10						
CK	DATE 05-27-93	DRAWING NO. B - 106562	REV. -				

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LET.	REVISIONS	DATE	BY
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INDICATOR ON PANEL AND KNOB MUST LINE UP.

INSTALLED

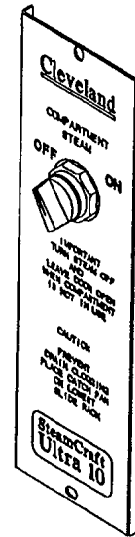
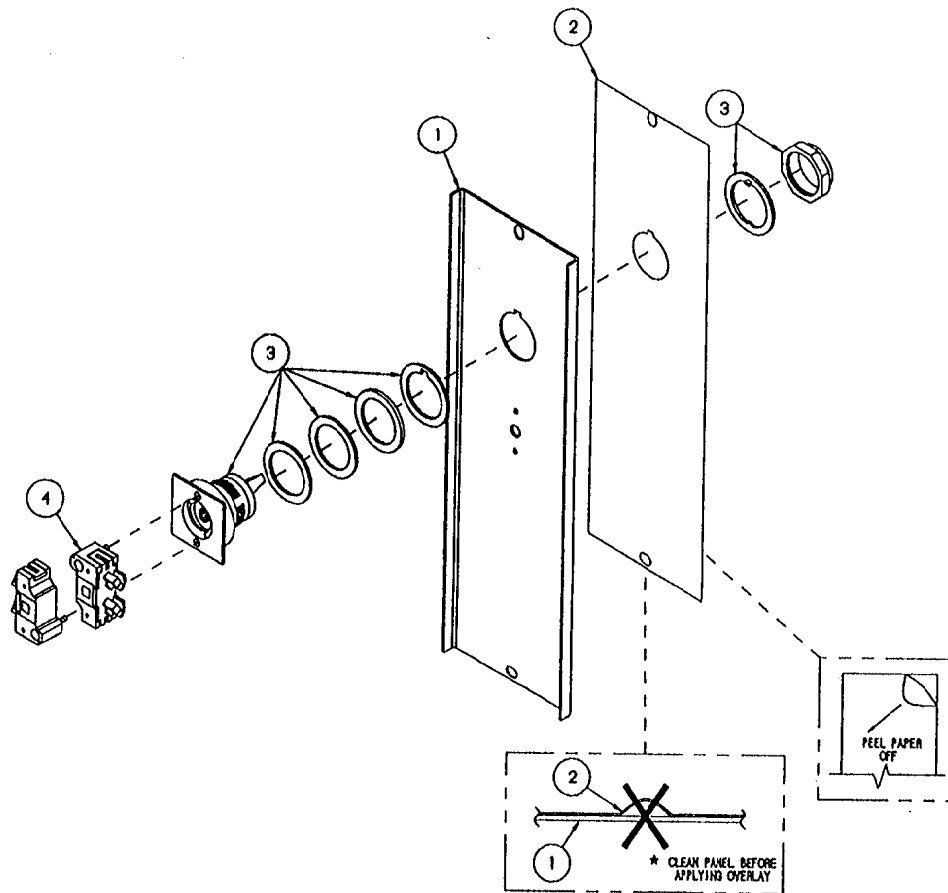
PEEL PAPER OFF

\* CLEAN PANEL BEFORE APPLYING OVERLAY

ITEM	QTY.	PART NO.	DESCRIPTION
12	1	101873	NUT, HEX, 1/4-20, ELASTIC LOCK
11	1	23116	WASHER, FLAT, 1/4, S/S
10	1	14617	NUT, HEX, 1/4-20, BLACK OXIDE
9	1	20477	TIMER, SOLID STATE, 3 SEC
8	1	14892	NUT, HEX, 10-24, ELASTIC LOCK
7	1	41350	BUZZER ASSY, w/ TERMINALS
6	2	19201	SCREW, PAN HD, 5-40 x .250
5	1	20476	TIMER, 60 MIN, MECH. SWITCH
4	1	104958	PANEL, WELDMENT, MECH. TIMER
3	1	108537	LABEL, CONTROL PANEL, MECH.
2	1	104224	SWITCH, ROCKER, SPDT
1	1	11307	KNOB, TIMER

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 3/8=1	DRAWN BY DUTCHMAN	APPROVED BY
ANGULAR ± N/A	TITLE TIMER ASSEMBLY, MECH. CONTROL REAR MOUNTED, STEAMCRAFT ULTRA 10		
CK	DATE 05-27-93	DRAWING NO. B - 106563	REV. -

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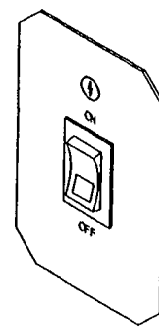
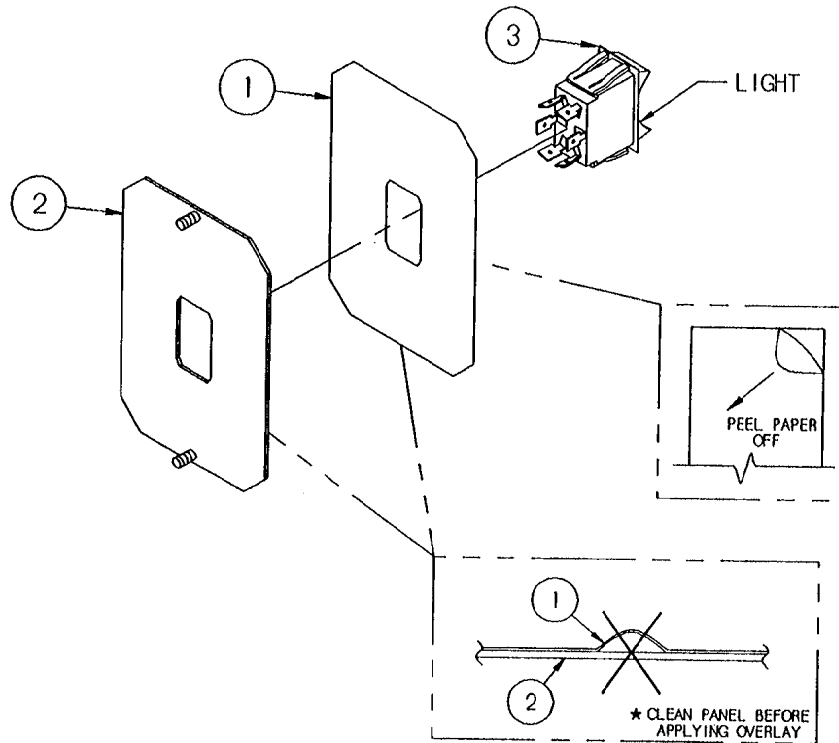


ITEM	QTY.	PART NO.	DESCRIPTION
4	2	102533	BLOCK, CONTACT
3	1	102534	SWITCH, SELECTOR
2	1	106538	LABEL, CONTROL PANEL, ON/OFF
1	1	104981	PANEL WELDMENT, ON/OFF CONTROL

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 3/8=1	DRAWN BY DUTCHMAN	APPROVED BY
ANGULAR ± N/A	TITLE TIMER ASSEMBLY, ON/OFF CONTROL REAR MOUNTED, STEAMCRAFT ULTRA 10		
CK	DATE 05-27-93	DRAWING NO. B - 106564	REV. -

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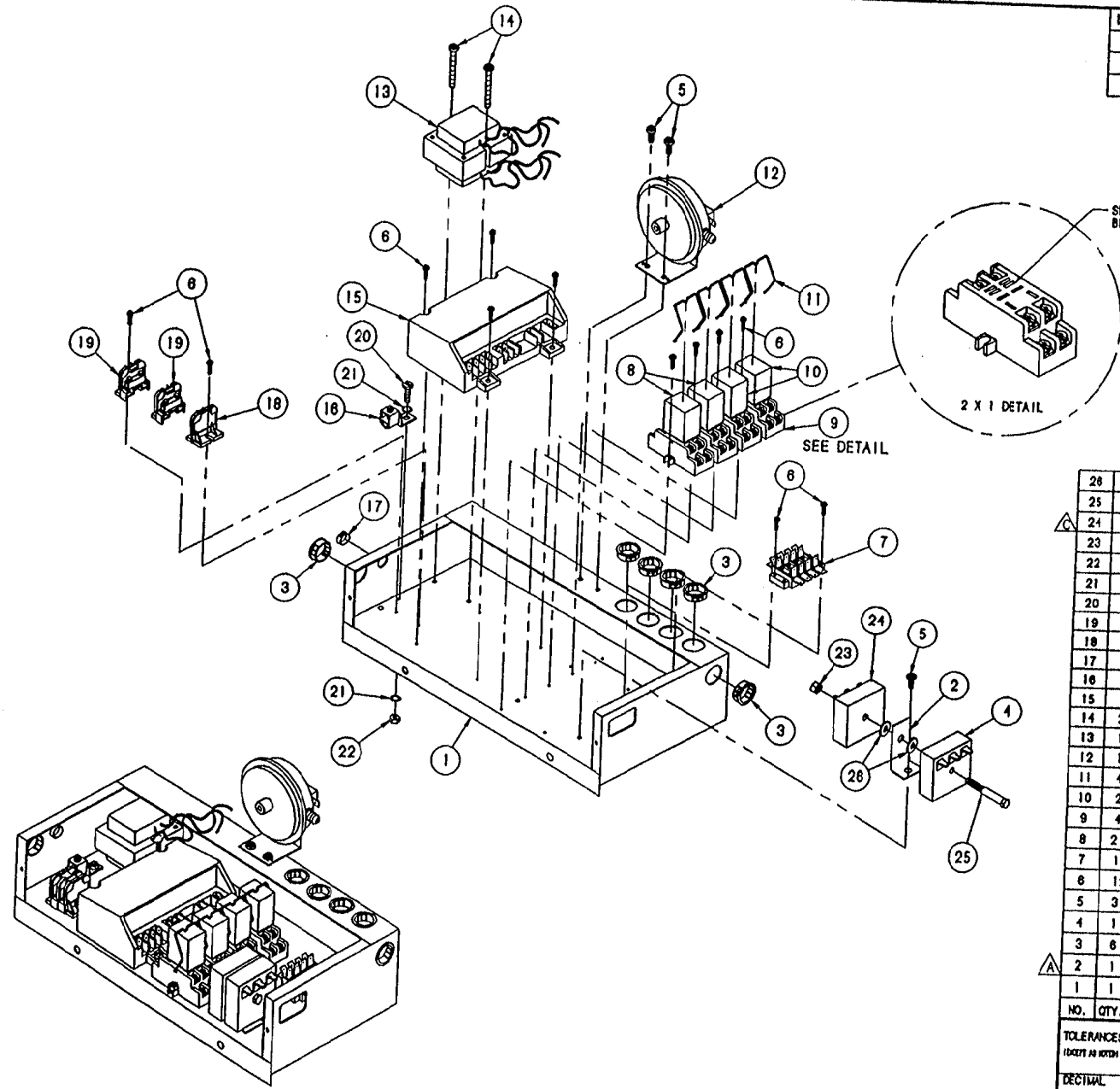
ITEM	QTY.	PART NO.	DESCRIPTION
3	1	19993	SWITCH, ROCKER, DPDT, LIGHT
2	1	105851	PANEL, CONTROL, WELD ASSY
1	1	105723	LABEL, CONTROL PANEL, POWER

TOLERANCES (EXCEPT AS NOTED)		<b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 1/2=1	DRAWN BY S. MILEWSKI	APPROVED BY
ANGULAR ± N/A	TITLE PANEL ASSEMBLY POWER SWITCH STEAMCRAFT 10		
CK	DATE 6-10-92	DRAWING NO. B - 105910	REV. -

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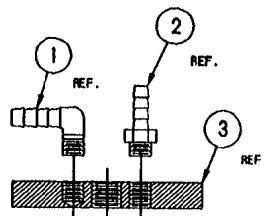
LET	REVISIONS	DATE	BY
A	REPLACE 106096 WITH 105955 PER C-2531	3/21/94	DLD
B	ADDED DETAIL PER E.O. 4C-2702	08-09-94	PJD
C	TIMER P/N WAS 104716, IS 106541, NO-2703	1/23/95	DLD



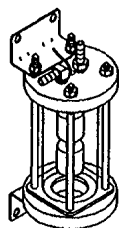
26	2	23116	WASHER, FLAT, 1/4-20, 5/32
25	1	106118	BOLT, 1/4-20 X 2-1/4, ZINC PLTD
24	1	106541	TIMER, 1 MIN ON, 0.8 SEC OFF
23	1	14618	NUT, HEX, 1/4-20, FULL FINISH
22	1	14672	NUT, HEX, LOCK ELASTIC, 10-32
21	2	23114	WASHER, INTERNAL TOOTH, 10-32
20	1	101334	SCREW, SLTD PH HD, 10-32 X 1/2
19	2	20301	TERMINAL SECTION, MARATHON
18	1	20302	TERMINAL, END SECTION, MARATHON
17	1	02616	BUSHING, INSULATOR, HEYCO
16	1	20304	GROUND LUG
15	1	105693	SPARK IGNITION CONTROL MODULE
14	2	106125	SCREW, SLTD TORX, #10-32 X 1.75
13	1	20528	TRANSFORMER, 24 VOLT
12	1	105788	SWITCH, AIR PROVER
11	4	105044	CLIP, WIRE, RELAY
10	2	105785	RELAY, 24V, COIL, DPDT
9	4	03525	SOCKET, RELAY
8	2	03524	RELAY, 120V
7	1	105990	TERMINAL BLOCK ASSY, 4 POLE
6	12	106127	SCREW, SLTD TORX, #6-32 X 1/2
5	3	106123	SCREW, SLTD TORX, #10-32 X 1/2
4	1	20478	INTERVAL TIMER, 180 SEC.
3	6	02800	BUSHING, INSULATOR, HEYCO
2	1	105955	BRACKET, DUAL TIMER MOUNTING
1	1	105517	BOX, ELEC, WELDMENT

NO.	QTY.	PART NO.	DESCRIPTION
TOLERANCES (UNLESS OTHERWISE SPECIFIED)			
<b>CLEVELAND RANGE INC.</b>			
1333 East 179th St. Cleveland, Ohio 44110-2374			
DECIMAL	SCALE	DRAWN BY	APPROVED BY
± N/A	3/8"=1	M. THOMPSON	
ANGULAR		TITLE	
± N/A		ELECTRIC BOX ASSEMBLY	
	DATE	DRAWING NO.	REV.
OK	10-20-92	C - 1059021	C

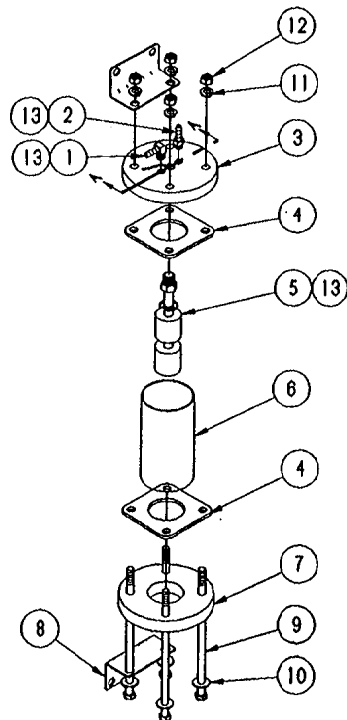
THIS DESIGN DESCRIBES A PROPRIETARY ITEM AND IS THE PROPERTY OF CLEVELAND RANGE. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF CLEVELAND RANGE.



DETAIL A-A  
SCALE: 1/2=1



ASSEMBLED VIEW  
SCALE: 1/4=1



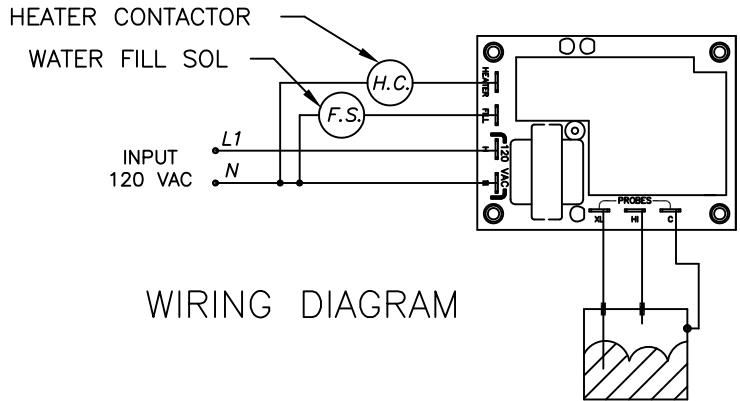
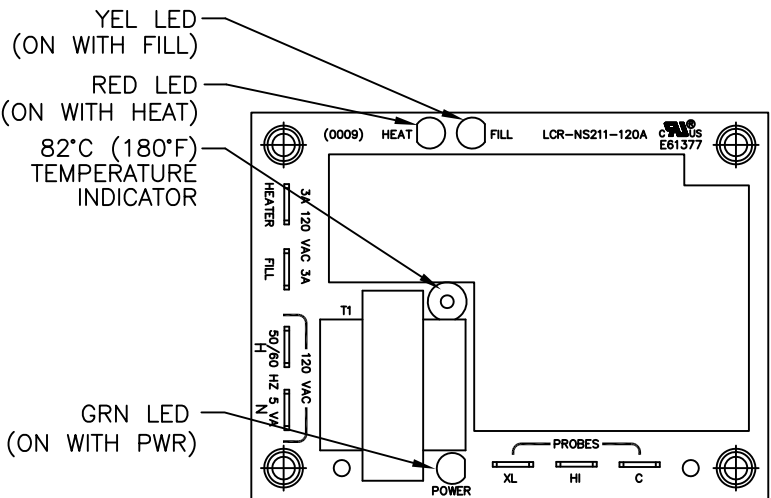
EXPLODED ASSEMBLY  
SCALE: 1/4=1

LET.	REVISIONS	DATE	BY
A	ROTATED 90° P/NS 105787 & 104380 PER EO #C-2304	10-05-92	PJD
B	REMOVED P/N 06240 PER E.O. #C-2423	05-20-93	PJD
C	P/N 104381 WAS P/N 104380 PER EO C-2575	02/24/94	DFA

ITEM	QTY.	PART NO.	DESCRIPTION
13	A/R	00934	SEALANT, RECTORSEAL
12	4	14618	NUT, HEX HEAD, 1/4-20, S/S
11	4	23105	WASHER, SPLIT LOCK, 1/4, S/S
10	4	23116	WASHER, FLAT, 1/4, S/S
9	4	104278	SCREW, HEX HEAD, 1/4-20 x 5.5, S/S
8	2	105925	BRACKET, MOUNTING, FLOAT ASSY
7	1	104040	CAP, FLOAT BOTTOM
6	1	104190388	TUBE, POLYSULFONE, 2 x .125 x 3.675
5	1	103728	SWITCH ASSEMBLY, FLOAT
4	2	104041	GASKET, FLOAT ASSEMBLY
3	1	104039	TOP, FLOAT, STEAMCRAFT
2	1	104381	FITTING, HOSE BARB, 1/4 H x 1/4 MPT
1	1	105787	FITTING, HOSE BARB, 90°, 1/4 H x 1/8 MPT

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE AS SHOWN	DRAWN BY S. MILEWSKI	APPROVED BY
ANGULAR ± N/A	TITLE FLOAT ASSEMBLY STEAMCRAFT 10, GAS		
CK	DATE 06-29-92	DRAWING NO. B - 105957	REV. C

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.



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.

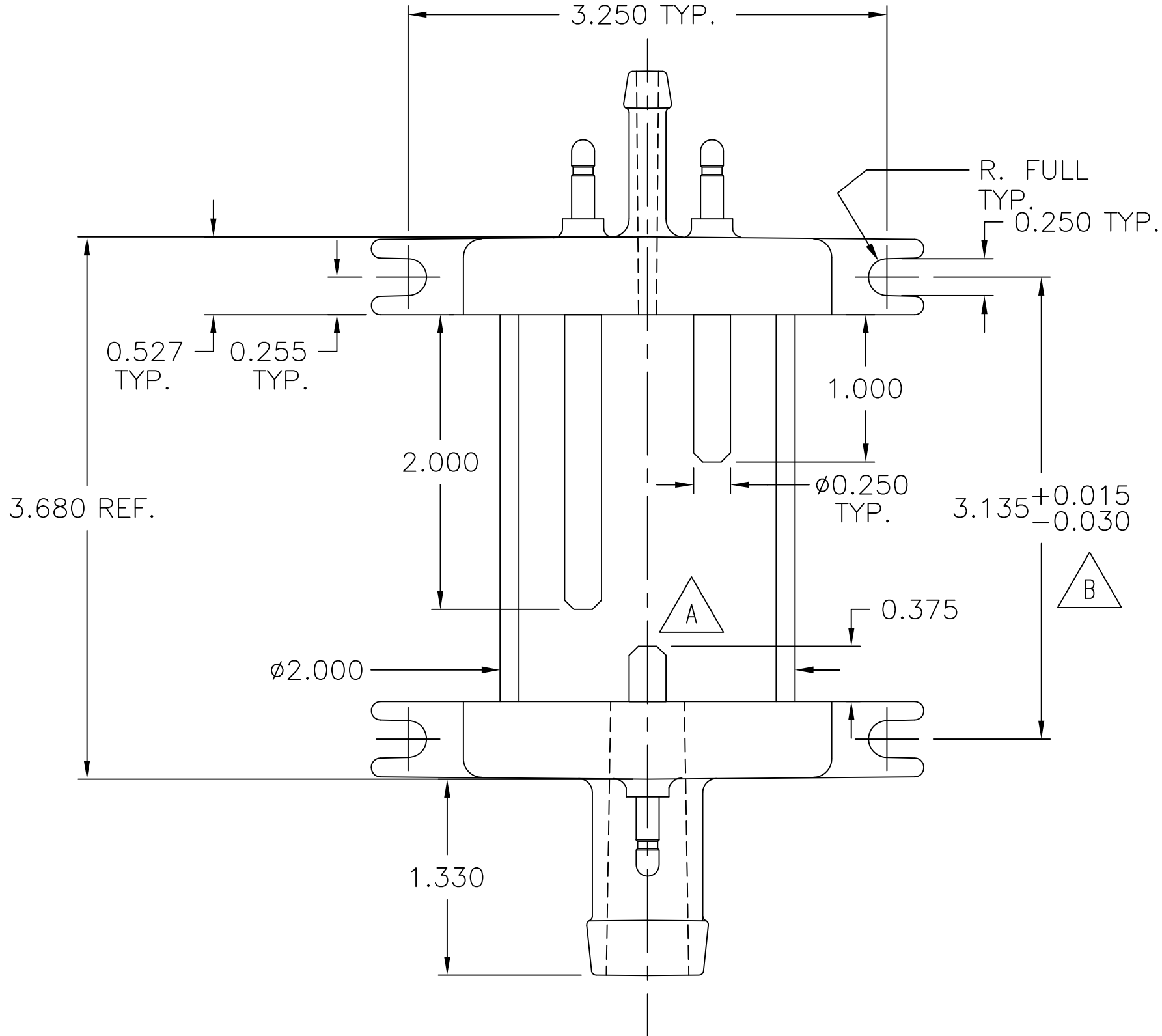
EACH FUNCTION WILL BE CONTROLLED BY RESISTANCE SENSING BETWEEN THE PROBES ("HI" & "LOW" TERMINALS) AND A GROUNDED COMMON ("C" TERMINAL).

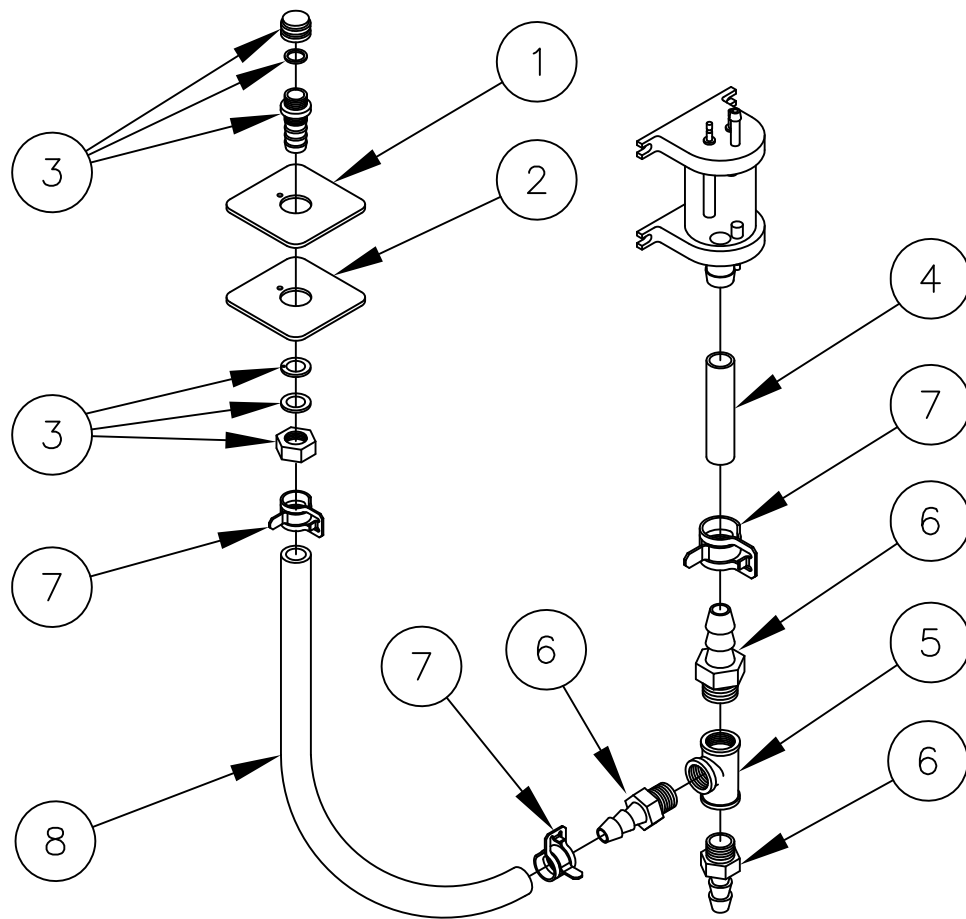
LOW PROBE OPERATION

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

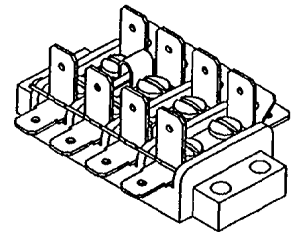
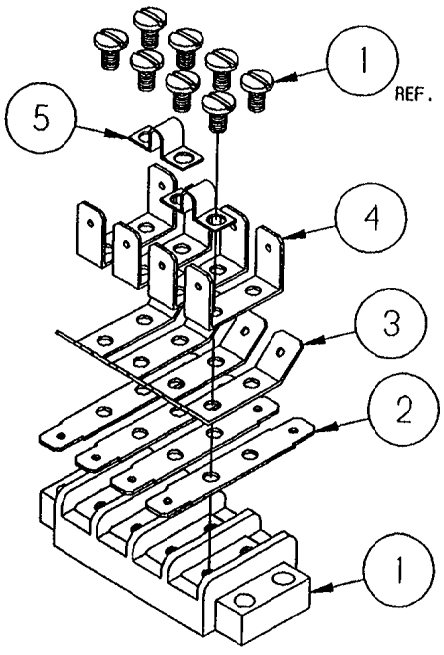
AS WATER MAKES CONTACT WITH PROBE, RESISTANCE BETWEEN "HI" AND COMMON "C" WILL BE BELOW SET POINT (50 K OHM) AND OUTPUT RELAY IS DEACTIVATED IMMEDIATELY. WHEN WATER BREAKS CONTACT WITH "HI" PROBE DELAY TIMING STARTS. TIMING IS NOT ACCUMULATIVE AND DELAY TIMER WILL BE RESET TO ZERO ANY TIME RESISTANCE 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	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
2	1	108724	PLATE, DESCALER PORT CVRSN
1	1	108723	GASKET, DESCALER PORT CVRSN

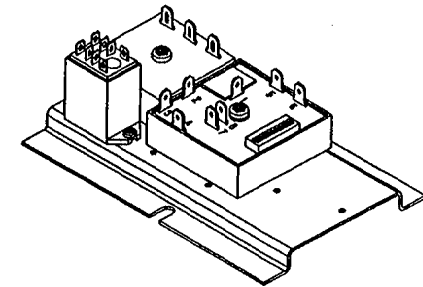
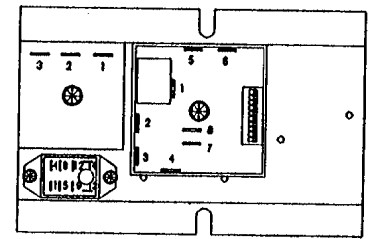
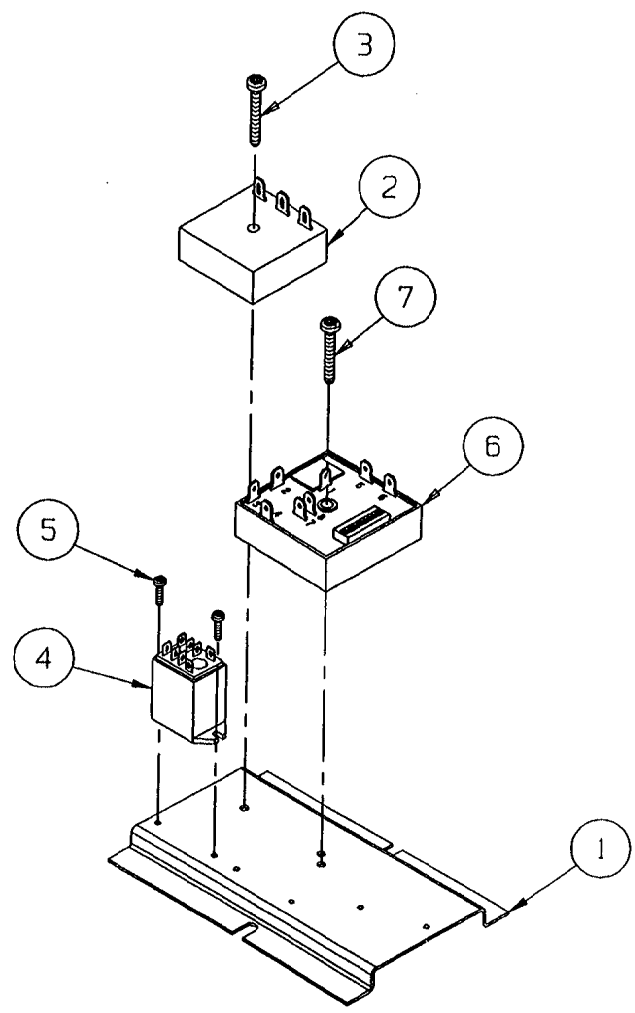
LET.	REVISIONS	DATE	BY
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ITEM	QTY.	PART NO.	DESCRIPTION
5	2	20328	TERMINAL CONNECTOR, JUMPER
4	4	20327	TERM. CONN., MALE TAB, 90°
3	4	20326	TERM. CONN., MALE TAB, 45°
2	4	20325	TERMINAL CONN., MALE TAB
1	1	02192	TERMINAL BLOCK, 4 TERMINAL

TOLERANCES (EXCEPT AS NOTED)		<b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 5/8=1		
ANGULAR ± N/A	TITLE TERMINAL BLOCK ASSEMBLY 4 POLE		
CK	DATE 07-22-92	DRAWING NO. A - 105990	REV. -

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HEAT STANDBY  
ULTRA 10 GAS

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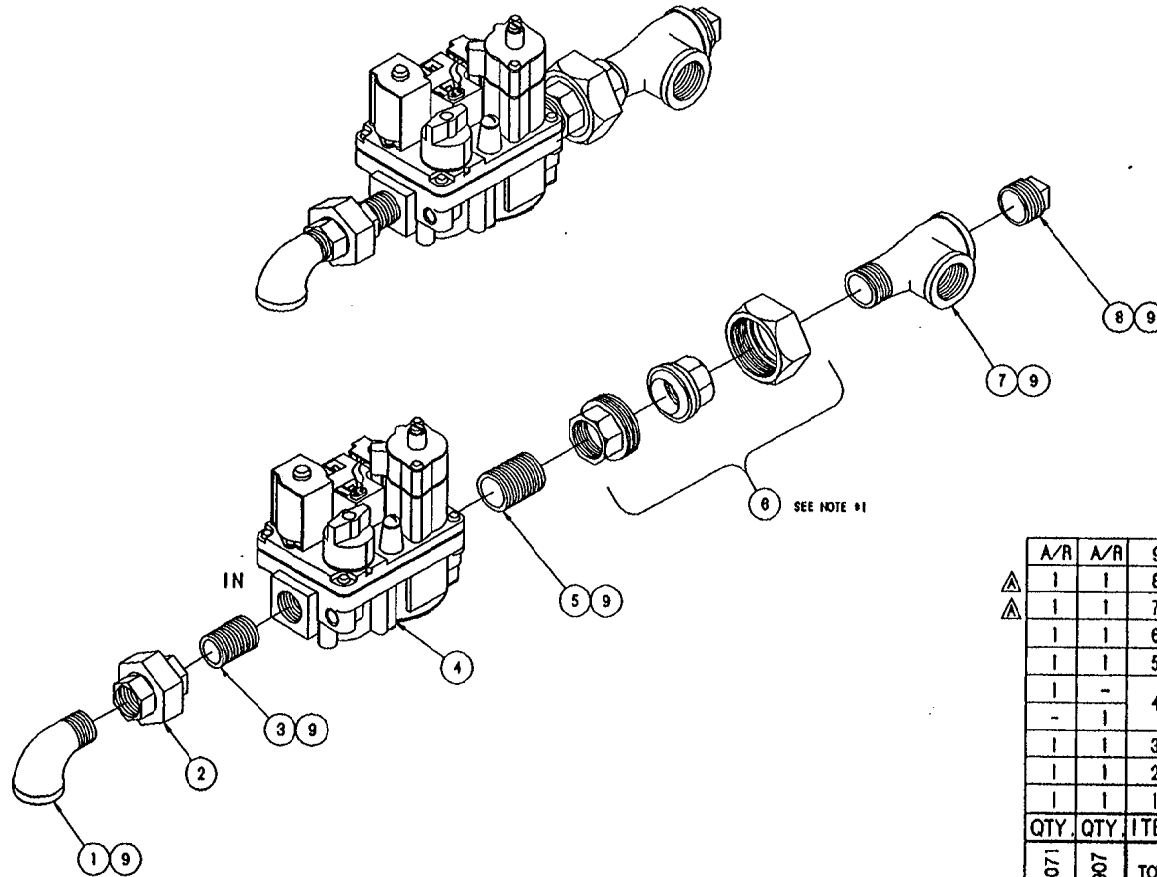
ITEM	QTY.	PART NO.	DESCRIPTION
7	1	108124	SCREW, TORX/SLOT #10-32 X 1.00" LG.
6	1	108911	TIMER, CLEAN LIGHT (DIP SWITCHES)
5	2	108127	SCREW, TORX/SLOT #8-32 X .500" LG.
4	1	105908	RELAY, 120 V, DPDT
3	1	108124	SCREW, TORX/SLOT #10-32 X 1.00" LG.
2	1	108580	TIMER, 20 SEC ON, 8 MIN OFF
1	1	106308	BRACKET, OPTION PLATE

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St., Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 3/8" ± 1"	DRAWN BY DUTCHMAN	APPROVED BY
ANGULAR ± N/A	TITLE HEAT STANDBY ULTRA 10 GAS		
CK	DATE 09-15-94	DRAWING NO. C - 107043	SV.



NOTES:

1.) ITEM (8) P/N 21305 MUST BE ASSEMBLED AS SHOWN.



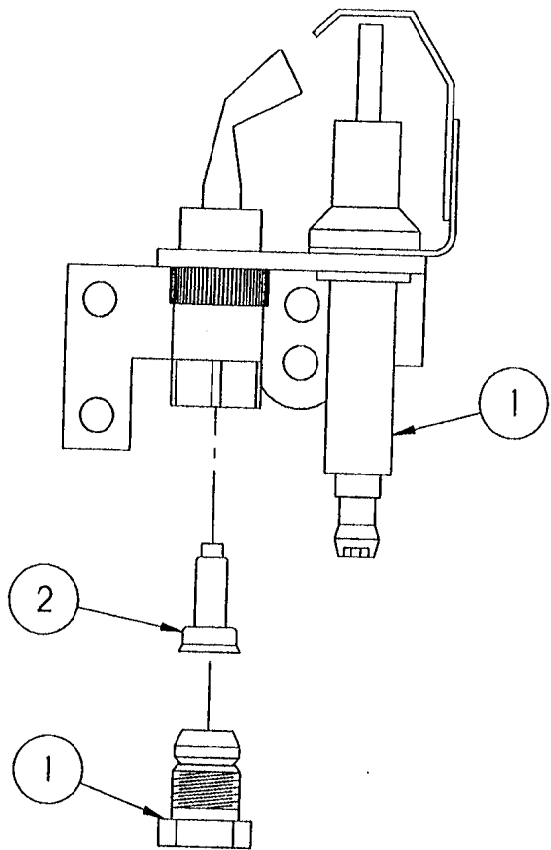
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LET.	REVISIONS	DATE	BY
A	P/N 105541 WAS 05259 ELBOW P/N 16608 PLUG ADDED PER E.O. #C-3204	01-12-93	PJD

A/R	A/R	9	-	00934	SEALANT, RECTORSEAL
△	1	1	8	-	16608 PLUG, 3/4", BLACK
△	1	1	7	-	105541 TEE, STREET, 3/4", BLACK
	1	1	6	-	21305 UNION, 3/4, BLACK
	1	1	5	-	14343 NIPPLE, 3/4 x CLOSE, BLACK
	1	-	4	-	105782 VALVE, GAS REGULATOR, LIQUID PROPANE
	-	1	-	-	105782 VALVE, GAS REGULATOR, NATURAL GAS
	1	1	3	-	14323 NIPPLE, 1/2 x CLOSE, BLACK
	1	1	2	-	21302 UNION, 1/2, BLACK
	1	1	1	-	05252 ELBOW, STREET, 90°, 1/2, BLACK

QTY.	QTY.	ITEM	QTY.	PART NO.	DESCRIPTION
1059071	105907	TOLERANCES (EXCEPT AS NOTED)	CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574		
		DECIMAL ± N/A	SCALE 3/8=1	DRAWN BY S. MILEWSKI	APPROVED BY
		ANGULAR ± N/A	TITLE GAS VALVE ASSEMBLY STEAMCRAFT 10		
	CK	DATE 06-09-92	DRAWING NO. B - 105907	REV. 1059071	A

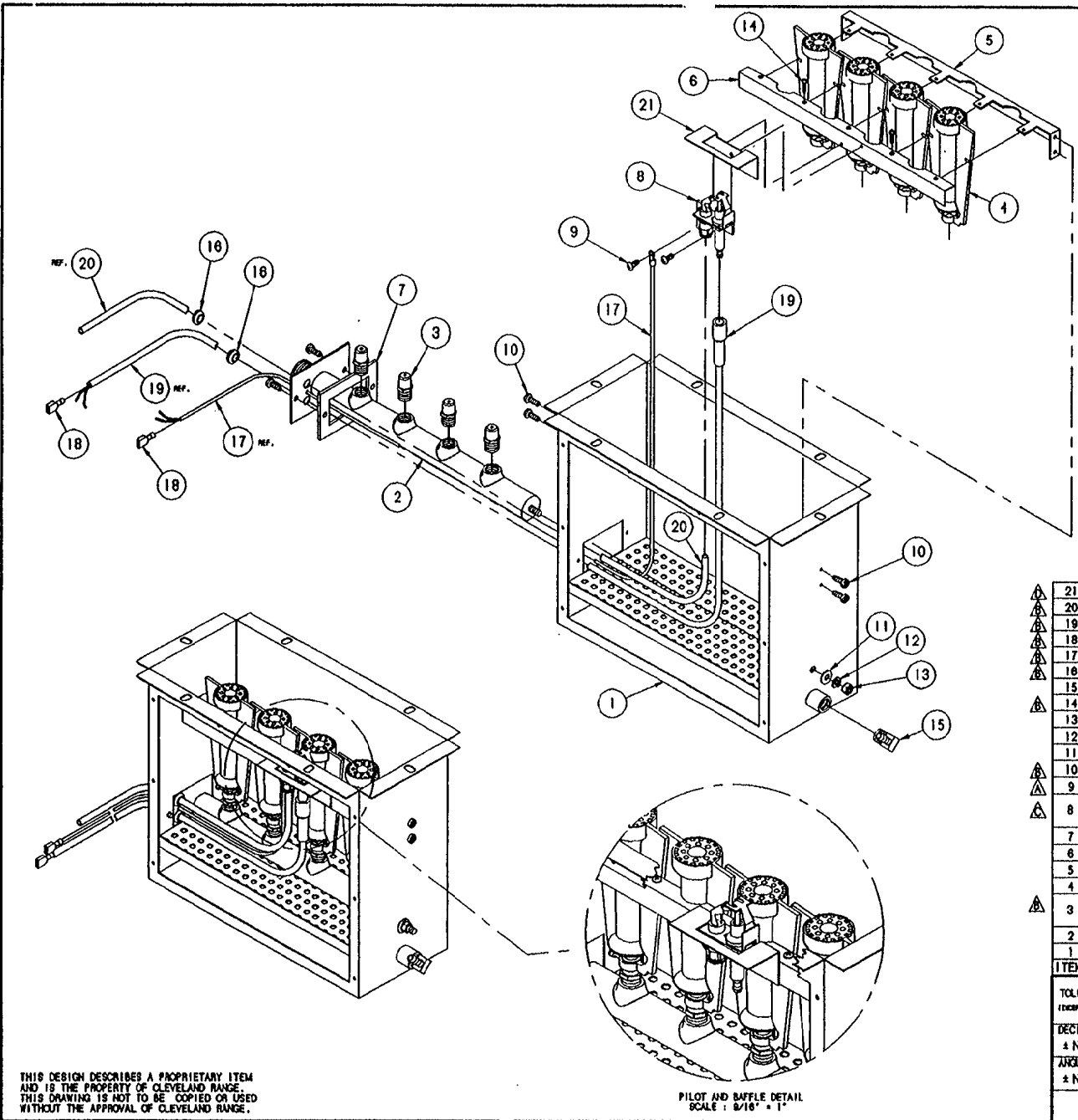
LET.	REVISIONS	DATE	BY
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- NOTE:
- 1.) REMOVE ORIFACE FROM P/N 105784 AND DISCARD.
  - 2.) INSTALL P/N 106375.

2	1	106375	ORIFICE, PILOT, 0.012"	
1	1	105784	PILOT	
ITEM	QTY.	PART NO.	DESCRIPTION	
TOLERANCES (EXCEPT AS NOTED)		<b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574		
DECIMAL ± N/A	SCALE 1=1	DRAWN BY DUTCHMAN	APPROVED BY -	
ANGULAR ± N/A	TITLE PILOT ASSEMBLY, L.P. STEAMCRAFT 10			
CK	DATE 02-22-93	DRAWING NO. A - 1057841	REV. -	

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LET.	REVISIONS	DATE	BY
A	P/N 19114 WAS P/N 191482, IN PICTORIAL RELOCATED P/N 19110 AND REVISED P/N 105940 PER E.O. #C-2293	09-15-92	PD
B	P/N 101879 WAS P/N 19110 P/N 106123 WAS P/N 191481 ADDED P/N'S 106129, 1061455000, 20358, 1061445000, 105984 & 1057051 PER E.O. #C-2304	10-29-92	PD
C	ADDED P/N 1057841 PER EO #C-2372	02-22-93	PJD
D	P/N 106412 ADDED PER EO #C-2290 R2	09-29-93	PJD

21	1	106412	BAFFLE, AIR, PILOT
20	1	105984	TUBE, FORMED, PILOT TO GAS, ALUMINUM
19	1	106144	WIRE ASSY, IGNITION, 50" LG.
18	2	20358	TERMINAL, SLIPON, FULL INSUL.
17	1	1061455000	WIRE ASSY, 18 GAL., 50" LG.
16	2	106129	GROMMET, RUBBER, 1/4" OD
15	1	105788	FITTING, HOSE BARB, 1/4 H x 1/4 MPT, 90°
14	2	101879	SCREW, HEX WASH HEAD, #8-32 x 1/2"
13	1	14618	NUT, HEX, 1/4-20, S/S
12	1	23105	WASHER, SPLIT LOCK, 1/4, S/S
11	1	23118	WASHER, FLAT, 1/4, S/S
10	6	106123	SCREW, TORX/SLOT PAN HD, #10-32 x 1/2"
9	2	19114	SCREW, PAN HEAD, PHILLIPS, #8-32 x .375
8	-	1057841	PILOT ASSEMBLY L.P., INTERMITTENT PILOT
7	1	105784	PILOT ASSY, NATURAL GAS, INTERM. PILOT
7	1	105940	GASKET, GAS MANIFOLD
6	1	105727	BRACKET, BURNER CLAMPING
5	1	105728	BRACKET, BURNER SUPPORT
4	4	105781	BURNER, INSHOT, 30,000 BTU
3	-	1057051	ORIFICE, LP GAS, VERTICAL BOILER
3	-	105705	ORIFICE, GAS, NATURAL, VERTICAL BOILER
2	1	105950	MANIFOLD ASSY, GAS, 125,000 BTU BOILER
1	1	105872	BURNER AIR BOX, WELD ASSEMBLY
ITEM	QTY.	PART NO.	DESCRIPTION

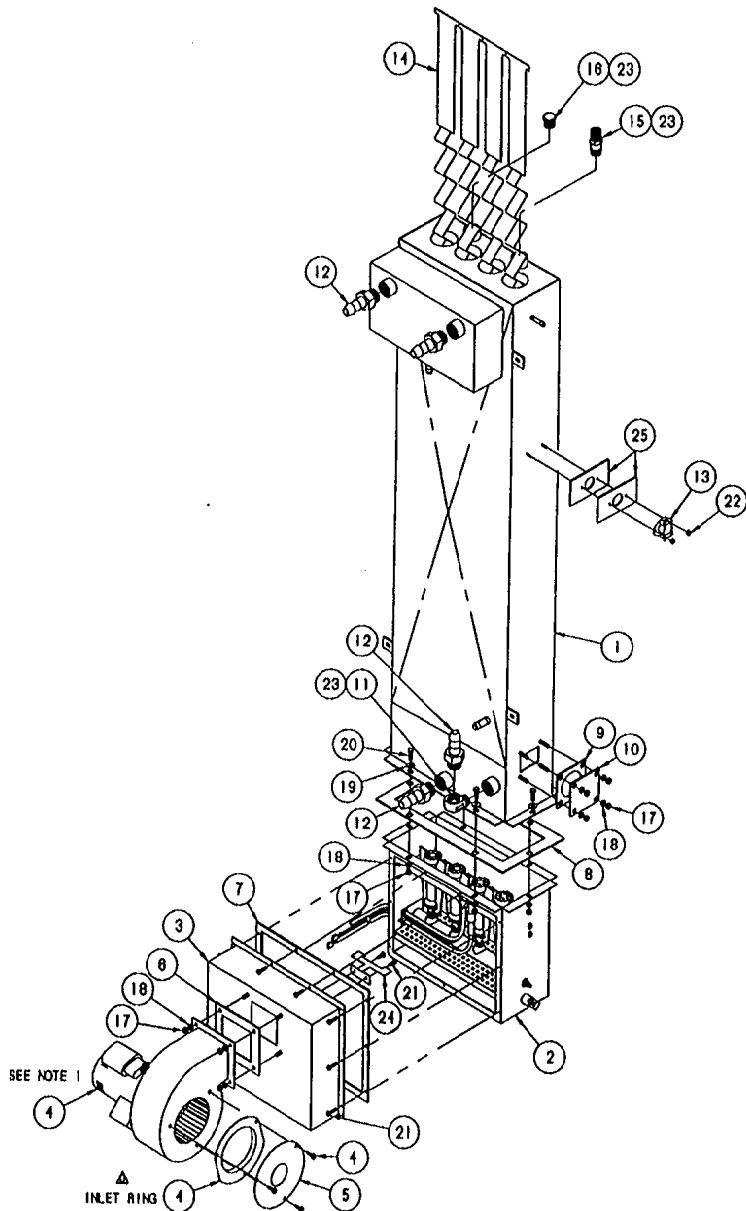
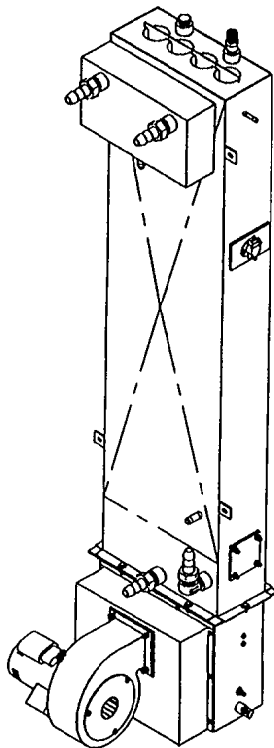
THIS DESIGN DESCRIBES A PROPRIETARY ITEM AND IS THE PROPERTY OF CLEVELAND RANGE. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF CLEVELAND RANGE.

PILOT AND BAFFLE DETAIL  
SCALE: 8/16" = 1"

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St., Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 3/8=1	DRAWN BY S. MILEWSKI	APPROVED BY
ANGULAR ± N/A	TITLE BURNER BOX ASSEMBLY 125,000 BTU VERTICAL BOILER NATURAL GAS / LP GAS		
CK	DATE 08-19-92	DRAWING NO. C - 105943	REV. D

NOTES:

1. REMOVE SCREWS FROM ITEM (14) AS SHOWN. REINSTALL INLET RING TO FAN HOUSING. INSTALL ITEM (15) AND REPLACE SCREWS. Δ



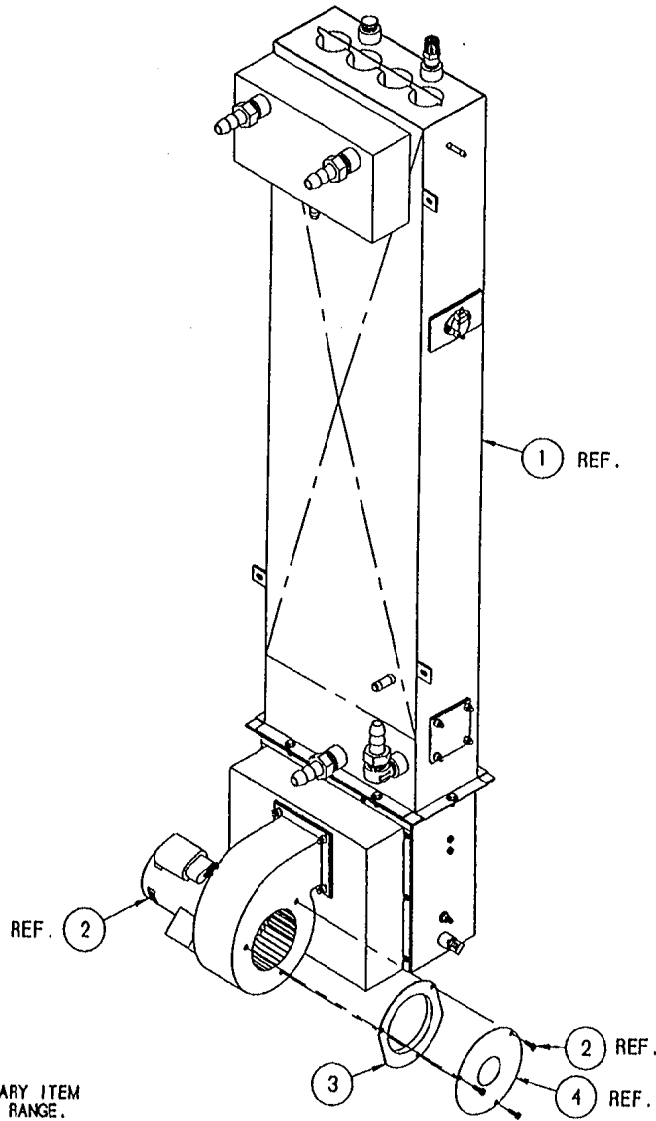
LET.	REVISIONS	DATE	BY
A	ADDED P/N 10691 AND P/N 18118 WAS QTY. OF 9 PER E.O. 40-2720	09-08-92	PO
B	PICTORIAL CONNECTED PER 60 40-2704	10-29-92	PO
C	P/N 10697 QTY. 21 ADDED P/N 10126 QTY. 101 REPLACED P/N 18118 QTY. 111 PER 60-2315 P2	02-05-93	PO
D	INLET RING NOW SHOWN EXPLODED FROM FAN HOUSING PER E.O. 40-2315 P2	03-09-93	PO

25	2	106397	INSULATOR, THERMOSETTER
24	1	106001	BAFFLE, AIR, PILOT, 125,000 BTU GAS
9	P/N	00034	SEALANT, RECTANGULAR
22	2	104220	NUT, HEX, ELASTIC LOCK, #8-32
21	10	106126	SCREW, TORX-SLOT FAN NO., 8-32 X 1/2
20	8	18170	SCREW, HEX HD., 1/4"-20 x .625, 8/3
19	8	23118	WASHER, FLAT, 1/4, 5/8
18	14	23109	WASHER, FLAT LOCK, 1/4, 5/8
17	14	14818	NUT, HEX, 1/4"-20, 8/3
16	1	18406	PLUG, HEX HEAD, 1/2 MPT, BRASS
15	1	105375	VALVE, PRESSURE RELIEF, POP-CO, 1/2 MPT
14	1	105120	BAFFLE ASSEMBLY, COALITION
13	1	105788	SWITCH, THERMAL DISK, EPDT, 180°
12	4	06240	FITTING, HOSE BARB, 3/4 TUBE x 3/4 MPT
11	1	05291	ELBOW, STREET, 90°, 3/4, BRASS
10	1	104814	PLATE, BLOWOFF
9	1	07126	GASKET, HEATER/BLOWOFF PLATE
8	1	105926	GASKET, BOILER MOUNT
7	1	105927	GASKET, BURNER MOUNT
6	1	105928	GASKET, FAN MOUNT
5	1	105734	ORIFICE, BLOWER INLET
4	1	105895	FAN, CENTRIFUGAL, 200 CFM
3	1	105743	CHAMBER, AIR DISTRIBUTION ASSEMBLY
2	1	105943	BURNER BOX ASSEMBLY, NATURAL GAS
1	1	105711	STEAM GENERATOR ASSEMBLY, WELDMENT

TELEACOLES		CLEVELAND RANGE INC.	
1333 East 178th St., Cleveland, Ohio 44110-2614			
DECIMAL	SCALE	DRAWN BY	APPROVED BY
1/4"	1/4"	S. WILEWSKI	
ASSEMBLY	TITLE	VERTICAL STEAM GENERATOR ASSEMBLY	
1/4"		125,000 BTU, STEAMCAPT 10	
OK	DATE	DRAWING NO.	REV.
	06-23-92	D - 105949	0

THIS DESIGN REMAINS 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
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FOR FIELD REPAIR

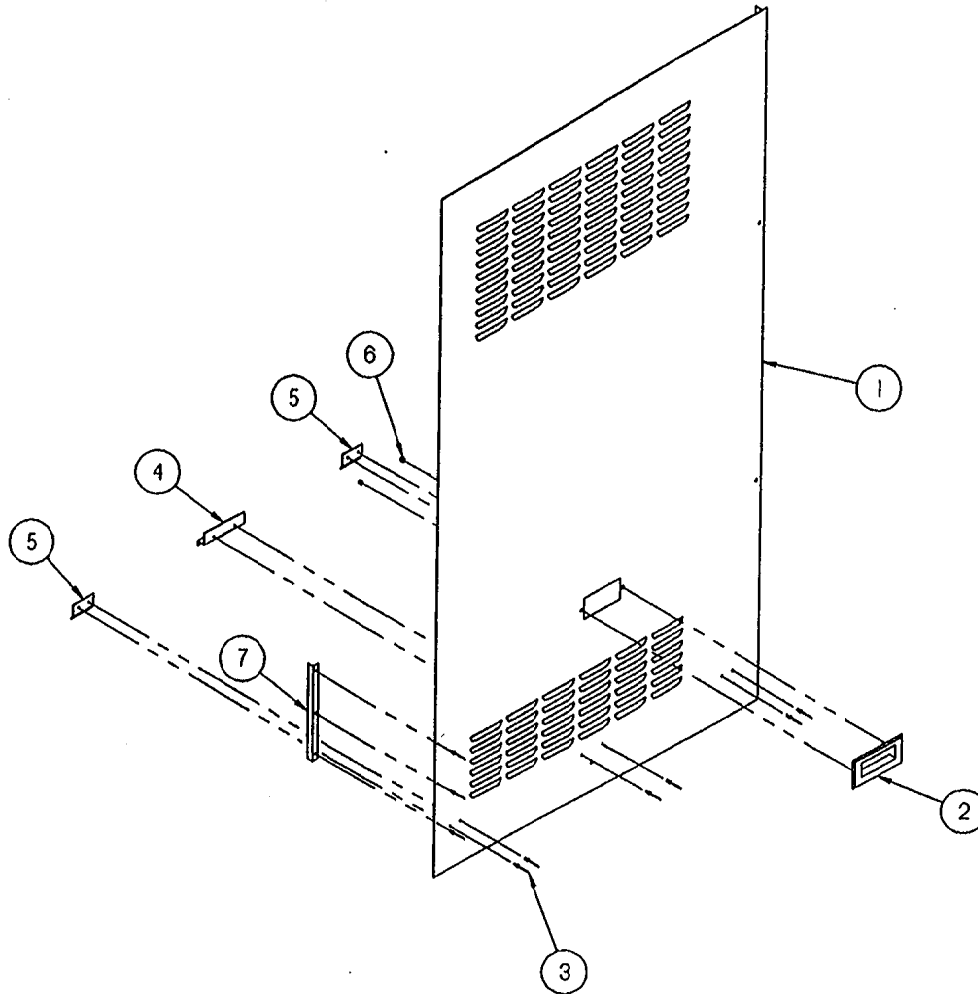
REMOVE 3 SCREWS HOLDING  
ITEM 4 AND REASSEMBLE,  
AS SHOWN, ADDING ITEM 3.

4	-	105735	ORIFICE, BLOWER INLET
3	1	106413	RING, FAN INLET
2	-	105695	FAN, CENTRIFUGAL, 200 CFM
1	-	105949	GENERATOR ASSY, SC10 GAS
ITEM	QTY.	PART NO.	DESCRIPTION

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 5/32" = 1"	DRAWN BY DUTCHMAN	APPROVED BY BEDFORD
ANGULAR ± N/A	TITLE FAN SERVICE REPAIR KIT STEAMCRAFT 10, GAS		
CK	DATE 03-05-93	DRAWING NO. B - 260AHN	REV. -

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.

LET.	REVISIONS	DATE	BY
A	ADDED P/N 106143 & P/N 18357 WAS QTY. OF 6 PER EO #C-2303	10/07/92	PD

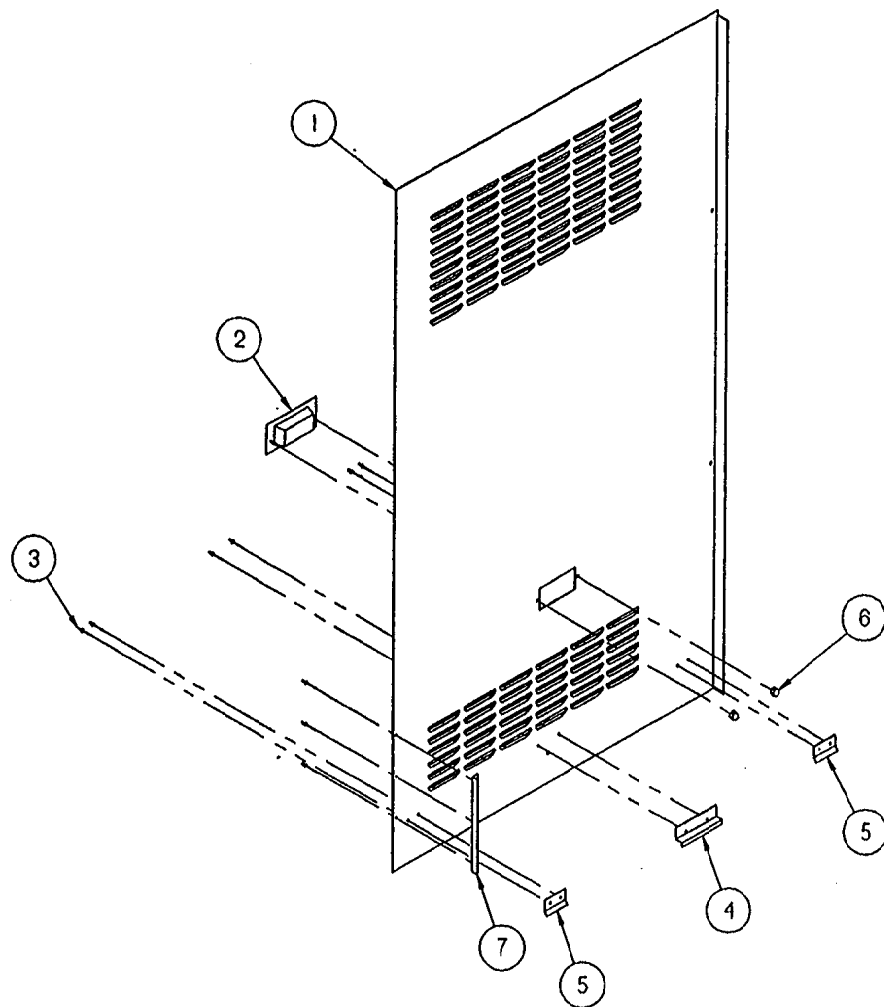


ITEM	QTY.	PART NO.	DESCRIPTION
7	1	106143	ANGLE, REINFORCEMENT
6	2	14676	NUT, ACORN 10-32 S/S
5	2	106045	BRACKET, SIDE SUPPORT, SHT.
4	1	106044	BRACKET, SIDE SUPPORT, LG.
3	9	18357	RIVET, FLUSH 1/8 S/S
2	1	08108	HANDLE, DOOR, S/S
1	1	105868	PANEL, SIDE, RIGHT, SC 10

TOLERANCES (EXCEPT AS NOTED)		<b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 1/8" = 1"	DRAWN BY DUTCHMAN	APPROVED BY: BEDFORD
ANGULAR ± N/A	TITLE PANEL, SIDE, RIGHT, ASSY. STEAMCRAFT 10		
CK	DATE 09-01-92	DRAWING NO. B - 106042	REV. A

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.

LET.	REVISIONS	DATE	BY
A	ADDED P/N 106143 & P/N 18357 WAS QTY. OF 6 PER EO #C-2303	10/07/92	PD

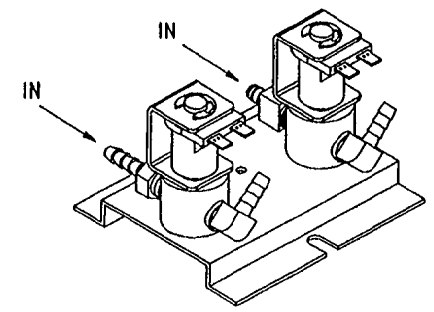
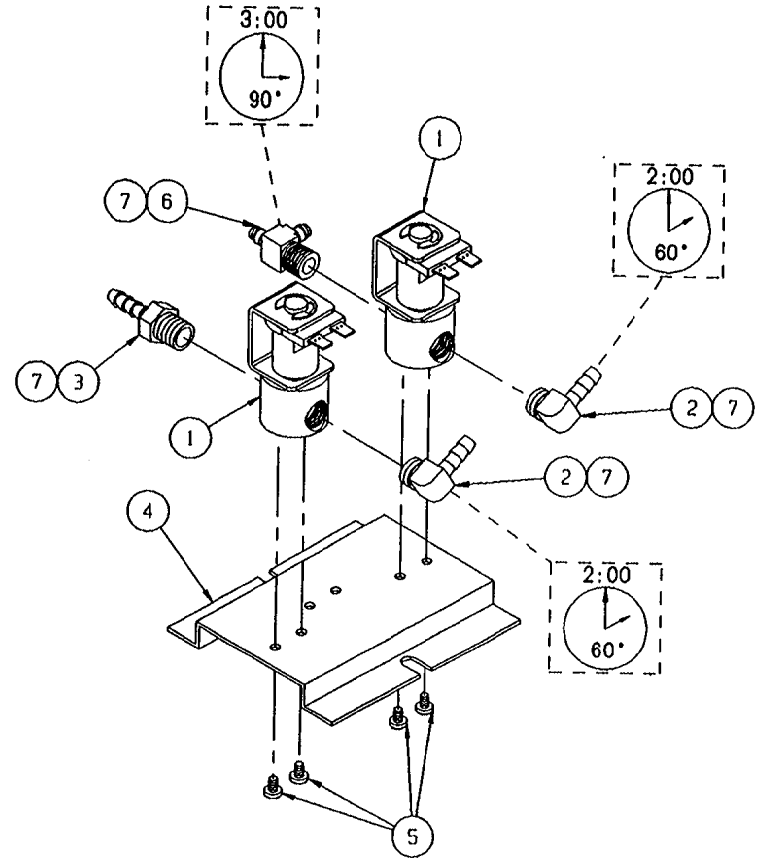


ITEM	QTY.	PART NO.	DESCRIPTION
7	1	106143	ANGLE, REINFORCEMENT
6	2	14676	NUT, ACORN 10-32, S/S
5	2	106045	BRACKET, SIDE SUPPORT, SHT.
4	1	106044	BRACKET, SIDE SUPPORT, LG.
3	9	18357	RIVET, FLUSH 1/8 S/S
2	1	08108	HANDLE, DOOR, S/S
1	1	105669	PANEL, SIDE, LEFT, SC 10

TOLERANCES (EXCEPT AS NOTED)			
<b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574			
DECIMAL ± N/A	SCALE 1/8 = 1	DRAWN BY DUTCHMAN	APPROVED BY BEDFORD
ANGULAR ± N/A	TITLE PANEL, SIDE, LEFT, ASSY. STEAMCRAFT 10		
CK	DATE 09-01-92	DRAWING NO. B - 106043	REV. A

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.

LET.	REVISIONS	DATE	BY
A	NEW VALVE REPLACING P/N 22218 (PICTORIAL ONLY) PER E.O. #C-2221 R1	01-28-93	PJD
B	REPLACED ONE 105788 WITH 106588. EO #C-2448R1.	11/1/93	NLT



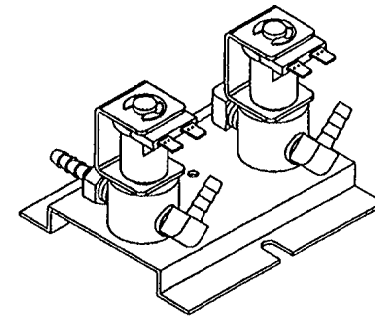
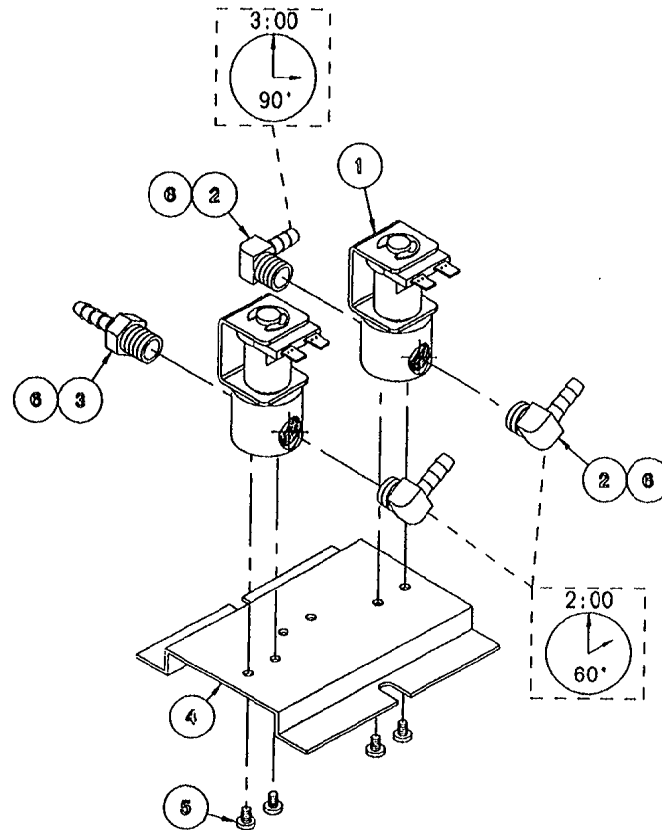
ITEM	QTY.	PART NO.	DESCRIPTION
7	A/R	00934	SEALANT, RECTORSEAL
6	1	106588	FITTING, HOSE, TEE, MALE RUN 1/4"
5	4	101872	SCREW, THREAD CUTTING, #8-32 x .25
4	1	104284	BRACKET, MOUNTING, STEAM SOLENOID
3	1	104381	FITTING, HOSE BARB, 1/4 H x 1/4, ST.
2	2	105786	FITTING, HOSE BARB, 1/4 H x 1/4, 90°
1	2	22218	VALVE, SOLENOID, 1/4", N.C., 120 V

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 1/2=1	DRAWN BY S. MILEWSKI	APPROVED BY
ANGULAR ± N/A	TITLE VALVE ASSEMBLY WATER INLET STEAMCRAFT 10		
CK	DATE 7-21-92	DRAWING NO. B - 105988	REV. B

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LET.	REVISIONS	DATE	BY
A	NEW VALVE REPLACING P/N 22218 (PICTORIAL ONLY) PER E.O. 1C-2221 RI	01-28-93	PJD



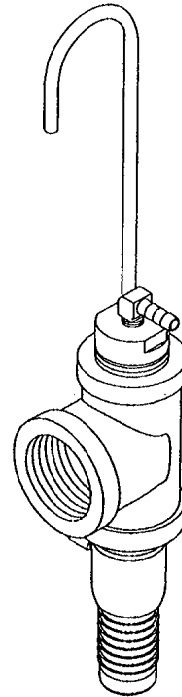
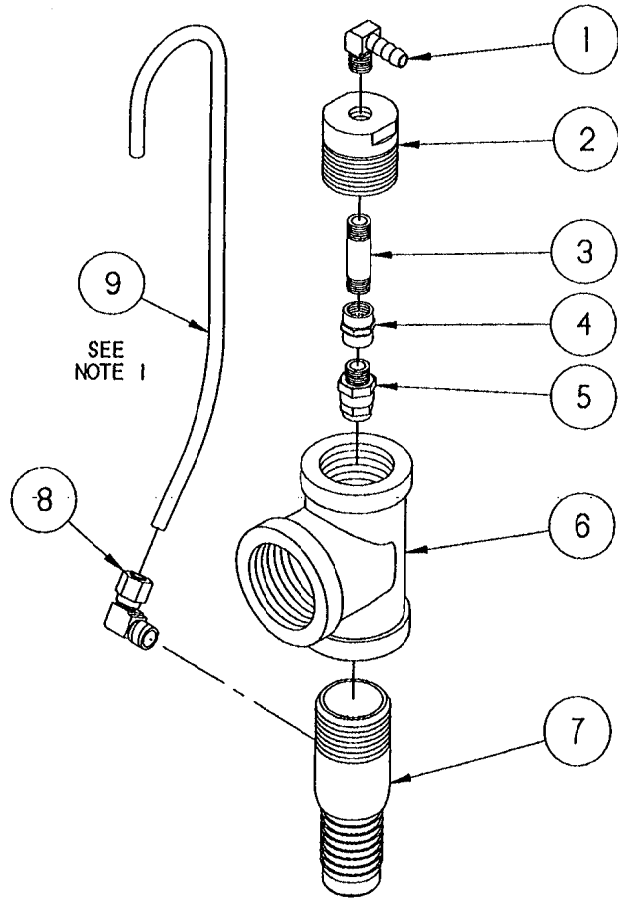
6	A/R	00934	SEALANT, RECTORSEAL
5	4	101872	SCREW, THREAD CUTTING, #8-32 x .25
4	1	104284	BRACKET, MOUNTING, STEAM SOLENOID
3	1	104381	FITTING, HOSE BARB, 1/4 H x 1/4, ST.
2	3	105786	FITTING, HOSE BARB, 1/4 H x 1/4, 90°
1	2	22218	VALVE, SOLENOID, 1/4", N.C., 120 V
ITEM	QTY.	PART NO.	DESCRIPTION

TOLERANCES (EXCEPT AS NOTED)		<b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 1/2=1	DRAWN BY S. MILEWSKI	APPROVED BY
ANGULAR ± N/A	TITLE VALVE ASSEMBLY WATER INLET STEAMCRAFT 10		
CK	DATE 7-21-92	DRAWING NO. B - 105988	REV. A

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.

NOTE :

1.) BEND TUBE TO FIT.



ASSEMBLED UNIT

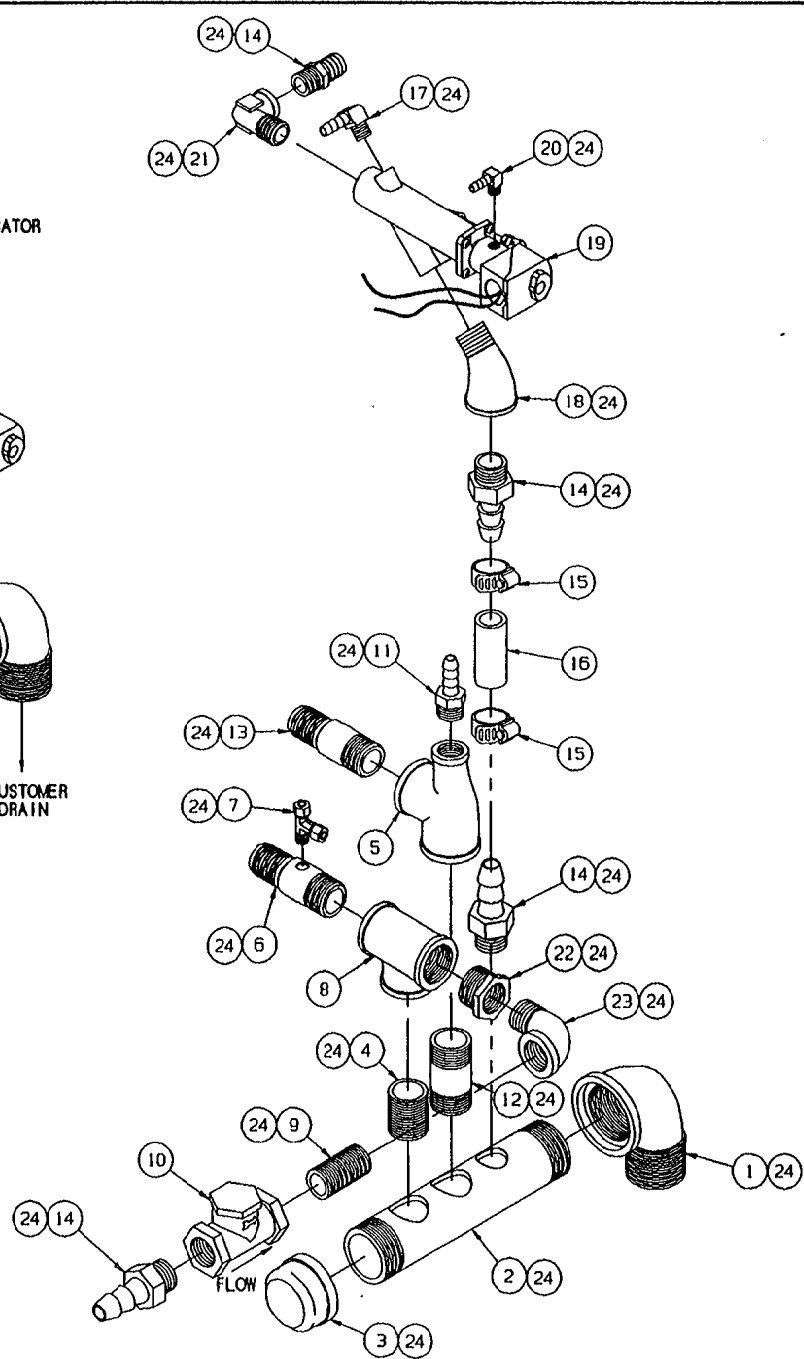
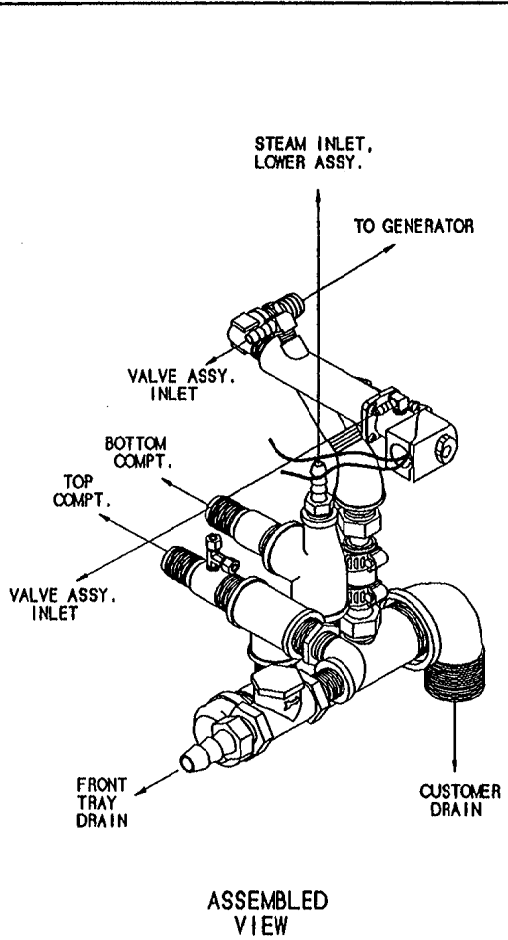
REFERENCE :  
280AIU 3 OF 3

LET.	REVISIONS	DATE	BY
A	P/N 565191 WAS 14481, P/NS 06192 & 106595 ADDED PER E.O. #C-2452	06-28-93	PJD
B	P/N 06233 WAS 06192 PER E.O. #C-2452 R1	07-02-93	PJD

ITEM	QTY.	PART NO.	DESCRIPTION
△	9	106595	TUBE, COPPER, BREATHER, SC10.
△	8	06233	FITTING, HOSE 3/8 H X 1/8 MPT, 90°
△	7	565191	FITTING, HOSE 1" W/ 1/8 HOLE
	6	105783	TEE, 1 X 1 X 1-1/4, BLACK
	5	14555	NOZZLE, SPRAY, 1/8 FULL JET
	4	104838	COUPLING, FULL 1/8, BRASS
	3	14297	NIPPLE, 1/8 X 1-1/2, BRASS
	2	06230	FITTING, COMPARTMENT DRAIN
	1	105786	FITTING, HOSE 1/4 X 1/4 MPT X 90

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TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 1/2" = 1"	DRAWN BY PJD	APPROVED BY
ANGULAR ± N/A	TITLE DRAIN ASSEMBLY STEAMCRAFT 10		
CK	DATE 03-08-93	DRAWING NO. B - 1061711	REV. B

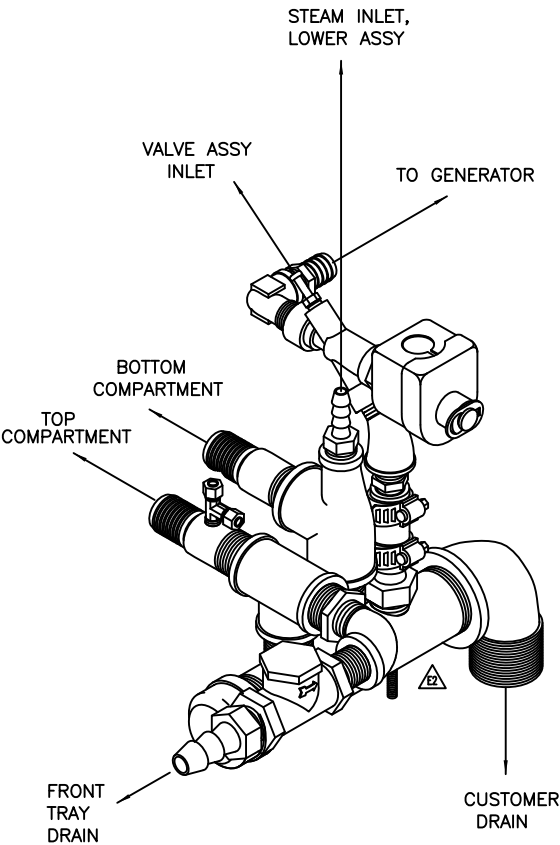


LET.	REVISIONS	DATE	BY
A	REPLACED 22221 WITH 22244 08241 (2) WITH 08240 (2) 05253 WITH 05231 05223 WITH 05237 104381 WITH 105788, ADDED 105787. EO #C-2448R1.	11/4/93	NT
B	REPLACED 14324 WITH 14343, AND 22149 WITH 22119, ADDED 20211, 08240(1), 0259B, AND 05259. DELETED 100233(1), AND 08237(1), EO C-2610.	6/8/94	DD

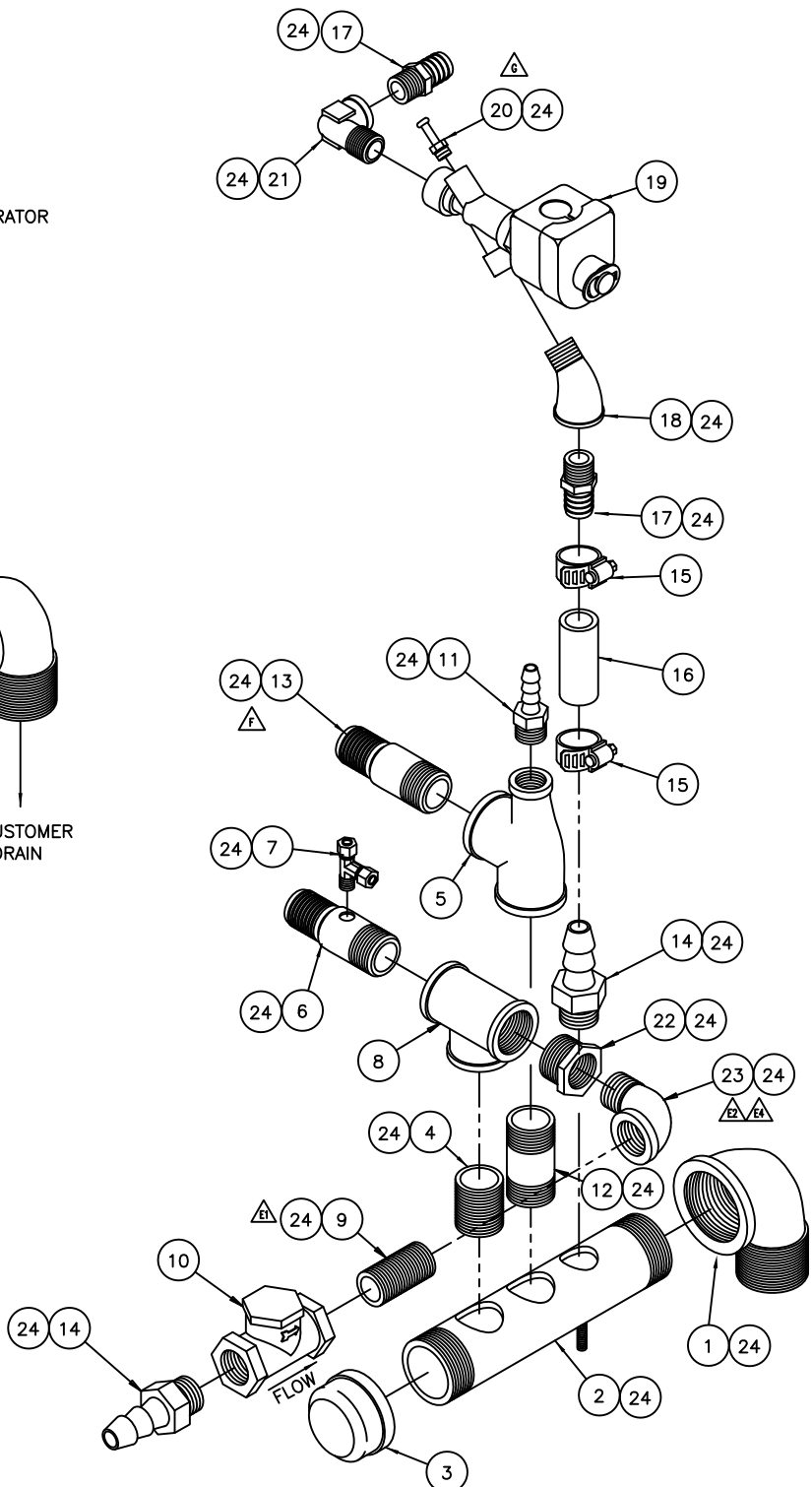
ITEM	QTY.	PART NO.	DESCRIPTION
		24	A/R 00934 SEALANT, RECTORSEAL
▲	23	1	05259 ELBOW, STREET, 3/4", BLACK
▲	22	1	0259B BUSHING, HEX, 1 X 3/4, BLACK
▲	21	1	05231 ELBOW, STREET, 90°, 3/4", BRASS
▲	20	1	105787 FITTING, HOSE BARB, 1/4H x 1/8MPT, 90°
▲	19	1	22244 VALVE, SOLENOID, 3/4", DRAIN, PARKER
▲	18	1	05237 ELBOW, STREET, 45°, 3/4, BLACK
▲	17	1	105788 FITTING, HOSE BARB, 1/4H x 1/4MPT, 90°
	18	1	085050250 HOSE, DARIPREEN, 3/4" ID x 2.5" LONG
	15	2	03204 CLAMP, HOSE, WORM DRIVE, .812 x 1.5 DIA
▲	14	4	08240 FITTING, HOSE BARB, 3/4 H x 3/4 MPT
	13	1	14481 FITTING, HOSE BARB, 1" H x 1" MPT
	12	1	14373 NIPPLE, 1" x 3, BLACK
▲	11	1	08237 FITTING, HOSE BARB, 1/2 H x 1/2 MPT
▲	10	1	22119 VALVE, CHECK, 3/4, BRASS
▲	9	1	14343 NIPPLE, 3/4 x CLOSE, BRASS
▲	8	1	20211 TEE, 1", BLACK
	7	1	101394 FITTING, COMP, TEE, 1/4 T x 1/8 x 1/4 T
	6	1	585191 FITTING, HOSE BARB, 1" H x 1", w/ HOLE
▲	5	1	100223 TEE, 1" x 1/2 x 1", BLACK
	4	1	14389 NIPPLE, 1" x CLOSE, BLACK
	3	1	03058 CAP, PIPE, 1-1/2, BLACK
	2	1	13252 MANIFOLD, DRAIN (BASE)
	1	1	05292 ELBOW, STREET, 90°, 1-1/2, BLACK

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TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 3/8±1	DRAWN BY S. MILEWSKI	APPROVED BY
ANGULAR ± N/A	TITLE DRAIN MANIFOLD ASSEMBLY STEAMCRAFT 10, GAS		
CK	DATE 08-04-92	DRAWING NO. C - 105750	REV. B



ASSEMBLED VIEW

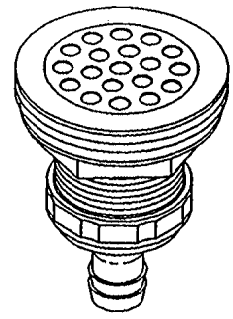
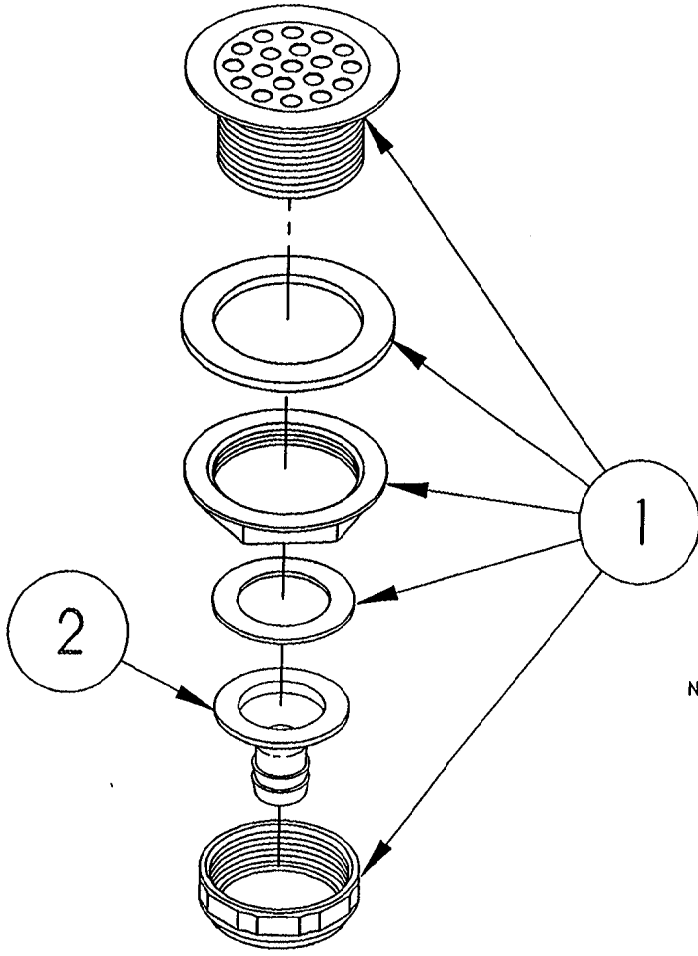


EXPLODED VIEW

QTY	A/R	PART NO.	DESCRIPTION
24	A/R	00934	SEALANT, PIPE DOPE
23	1	05259	ELBOW, STREET, 90°, 3/4, BLACK
22	1	02598	BUSHING, HEX, 1 x 3/4, BLACK
21	1	05253	ELBOW, STREET, 90°, 1/2, BRASS
20	1	109866	FITTING, HOSE BARB, RADIUS TIP, 1/4 HOSE
19	1	22221	VALVE, SOLENOID, 1/2, 15 PSI
18	1	05223	ELBOW, STREET, 45°, 1/2, BRASS
17	2	06241	FITTING, HOSE BARB, 3/4 H x 1/2 MPT
16	1	085110250	HOSE, DARIPREEN, 3/4 ID x 2.500 LG
15	2	03204	CLAMP, HOSE, WORM DRIVE, 0.812 TO Ø1.500
14	2	06240	FITTING, HOSE BARB, 3/4 H x 3/4 MPT
13	1	14481	FITTING, HOSE BARB, 1 H x 1 MPT
12	1	14373	NIPPLE, 1 x 3, BLACK
11	1	06237	FITTING, HOSE BARB, 1/2 x 1/2 MPT
10	1	22119	VALVE, CHECK, 3/4, BRASS
9	1	14343	NIPPLE, 3/4 x CLOSE, BRASS
8	1	20211	TEE, 1, BLACK
7	1	101394	FITTING, COMP, TEE, 1/4 T x 18 x 14 T
6	1	565191	FITTING, HOSE BARB, 1 H x 1, W/HOLE
5	1	100223	TEE, 1 x 1/2 x 1, BLACK
4	1	14369	NIPPLE, 1 x CLOSE, BLACK
3	1	03058	CAP, PIPE, 1-1/2, BLACK
△	2	132521	MANIFOLD ASS'Y, DRAIN (STUD LOCATION)
1	1	05292	ELBOW, STREET, 90°, 1-1/2, BLACK

NOTE:  
 REMOVE AND DISCARD PLASTIC TAIL PIECE;  
 REPLACE WITH ITEM 2

LET.	REVISIONS	DATE	BY
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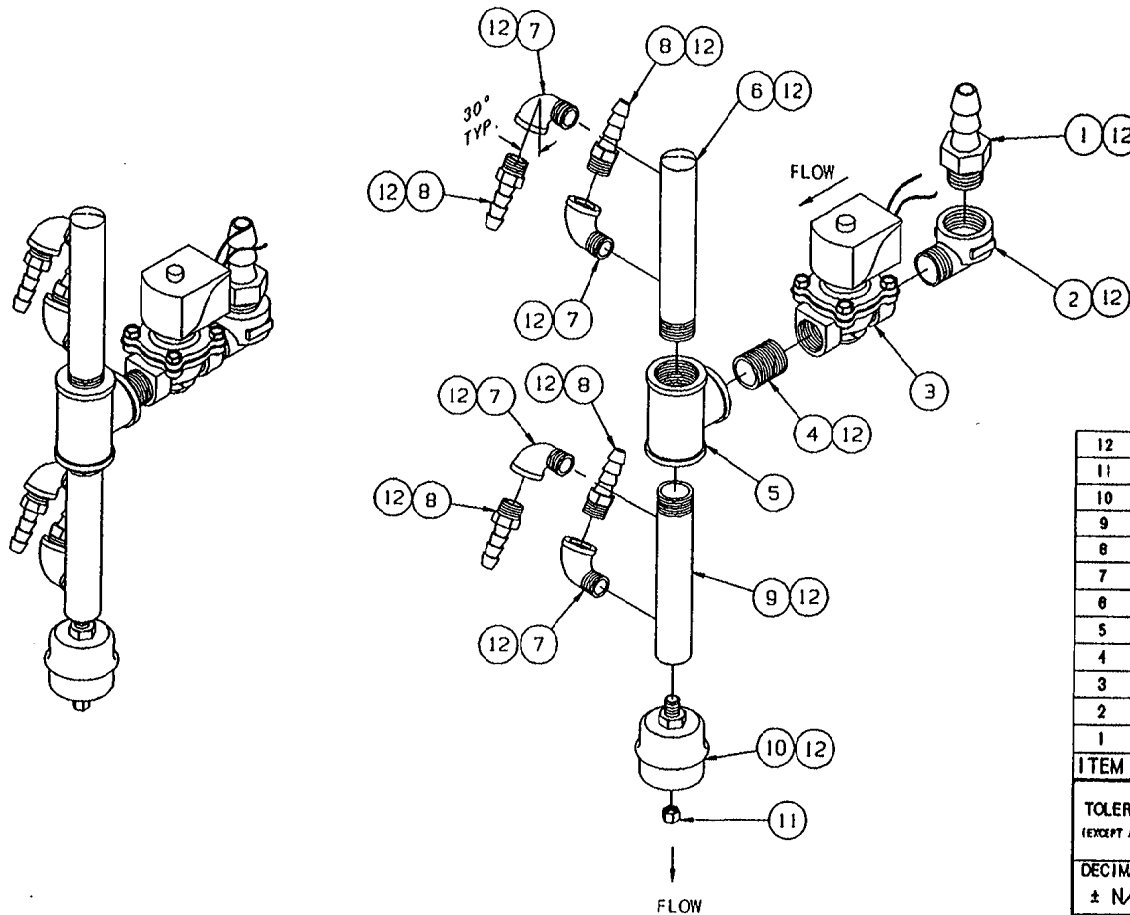


SEE  
 NOTE

2	1	106736	TAIL PIECE, DRAIN	
1	1	105280	DRAIN, FITTING HOSE ADAPTER	
ITEM	QTY.	PART NO	DESCRIPTION	
TOLERANCES (EXCEPT AS NOTED)		<b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574		
DECIMAL ± N/A	SCALE 1/2"	DRAWN BY ATHERTON	APPROVED BY	
ANGULAR ± N/A	TITLE <b>DRAIN ASSEMBLY</b> <b>TABLETOPS AND STEAMCRAFT 10</b>			
CK	DATE 01-06-92	DRAWING NO. A-106737	REV. -	REV. -

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LET.	REVISIONS	DATE	BY
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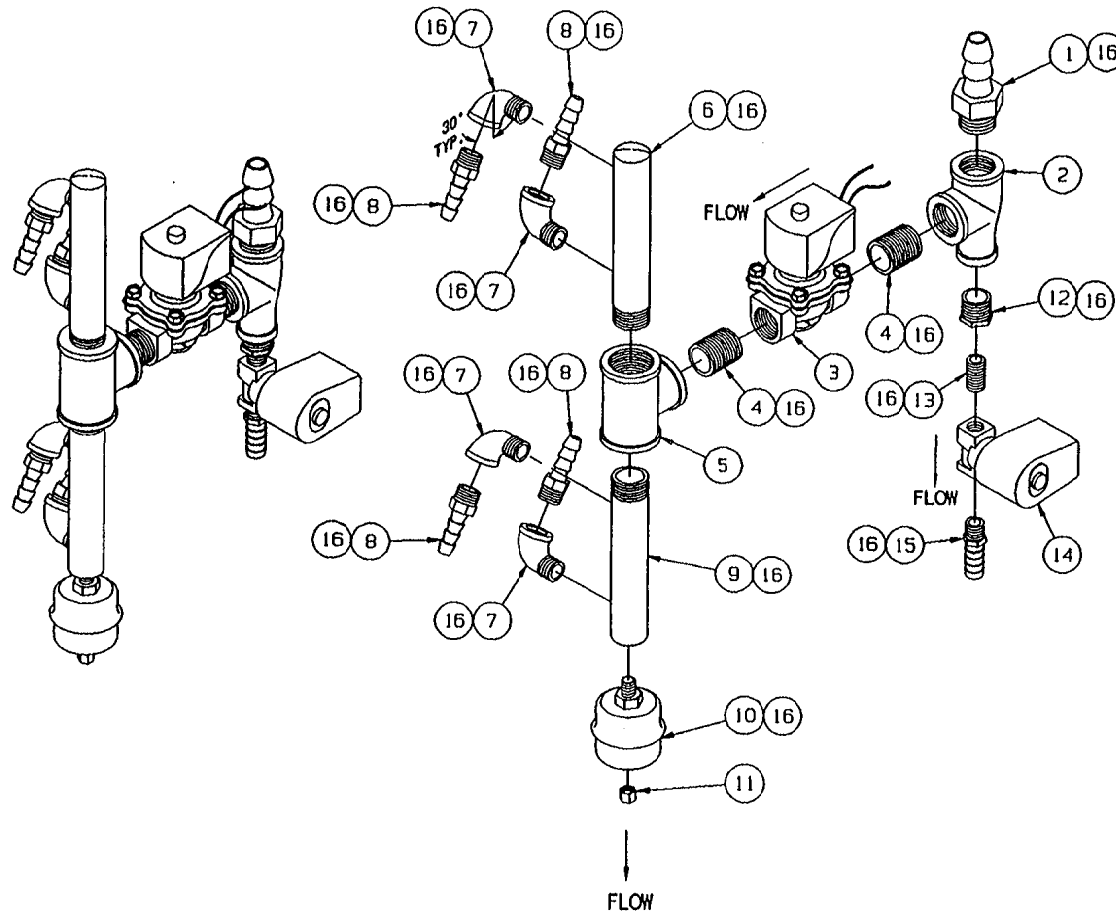


ITEM	QTY.	PART NO.	DESCRIPTION
12	A/R	00934	SEALANT, RECTORSEAL
11	1	14661	NUT, COMPRESSION, 1/4 TUBE
10	1	101207	TRAP, THERMOSTATIC, 1/4 NPT
9	1	133012	MANIFOLD, STEAM INLET, 1/4 NPT HOLE
8	4	100746	FITTING, HOSE BARB, 1/2 H x 3/8 MPT
7	4	05280	ELBOW, STREET, 90°, 3/8, BRASS
6	1	133011	MANIFOLD, STEAM INLET, CLOSED
5	1	20206	TEE, 3/4, BRASS
4	1	14342	NIPPLE, 3/4 x CLOSE, BRASS
3	1	105965	VALVE, SOLENOID, 3/4 NPT, 0-4 PSI
2	1	05231	ELBOW, STREET, 90°, 3/4, BRASS
1	1	06240	FITTING, HOSE BARB, 3/4 H x 3/4 MPT

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 5/16=1	DRAWN BY S. MILEWSKI	APPROVED BY
ANGULAR ± 1°	TITLE STEAM INLET ASSEMBLY UPPER COMPARTMENT STEAMCRAFT 10, GAS		
CK	DATE 6-3-92	DRAWING NO. B - 105880	REV. -

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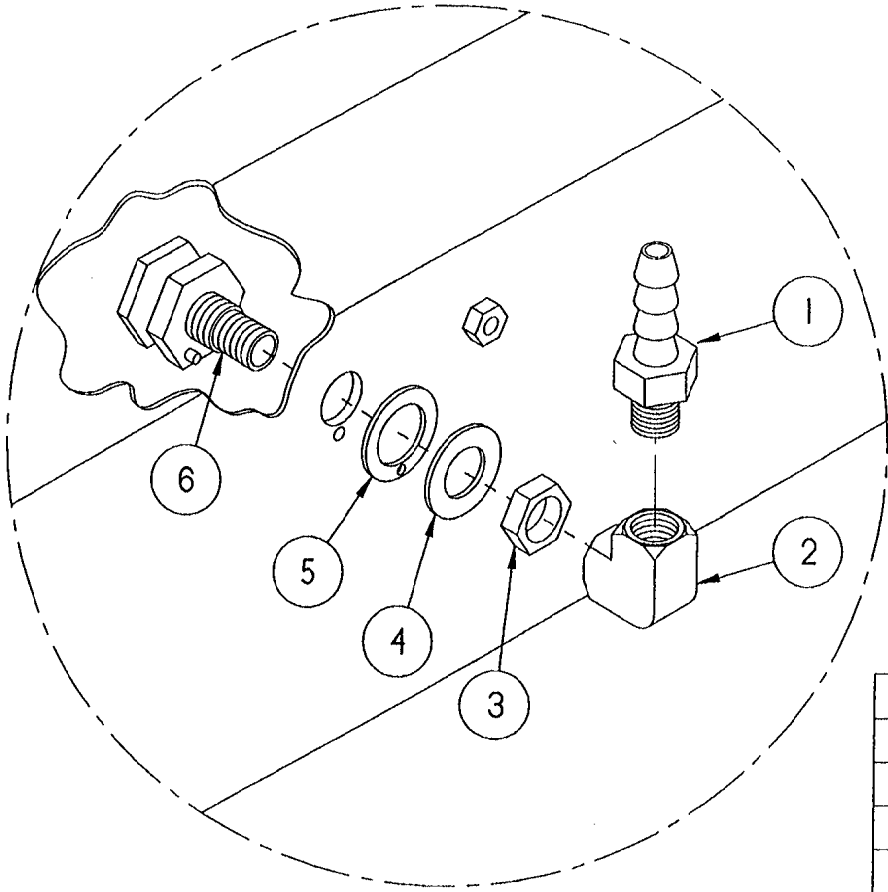
LET.	REVISIONS	DATE	BY
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16	A/R	00934	SEALANT, RECTORSEAL
15	1	104048	FITTING, HOSE BARB, 1/2 H x 1/4 MPT
14	1	22199	VALVE, SOLENOID, STEAM, NORM. OPEN
13	1	14304	NIPPLE, 1/4 x CLOSE, BRASS
12	1	02623	BUSHING, HEX, 1/2 x 1/4, BRASS
11	1	14661	NUT, COMPRESSION, 1/4 TUBE
10	1	101207	TRAP, THERMOSTATIC, 1/4 NPT
9	1	133012	MANIFOLD, STEAM INLET, 1/4 NPT HOLE
8	4	100746	FITTING, HOSE BARB, 1/2 H x 3/8 MPT
7	4	05280	ELBOW, STREET, 90°, 3/8, BRASS
6	1	133011	MANIFOLD, STEAM INLET, CLOSED
5	1	20206	TEE, 3/4, BRASS
4	2	14342	NIPPLE, 3/4 x CLOSE, BRASS
3	1	105985	VALVE, SOLENOID, 3/4 NPT, 0-4 PSI
2	1	20208	TEE, 3/4 x 1/2 x 3/4, BRASS
1	1	06240	FITTING, HOSE BARB, 3/4 H x 3/4 MPT
ITEM	QTY.	PART NO.	DESCRIPTION

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 5/16=1	DRAWN BY S. MILEWSKI	APPROVED BY
ANGULAR ± 1°	TITLE STEAM INLET ASSEMBLY LOWER COMPARTMENT STEAMCRAFT 10, GAS		
CK	DATE 6-3-92	DRAWING NO. B - 105881	REV. -

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TYPICAL APPLICATION

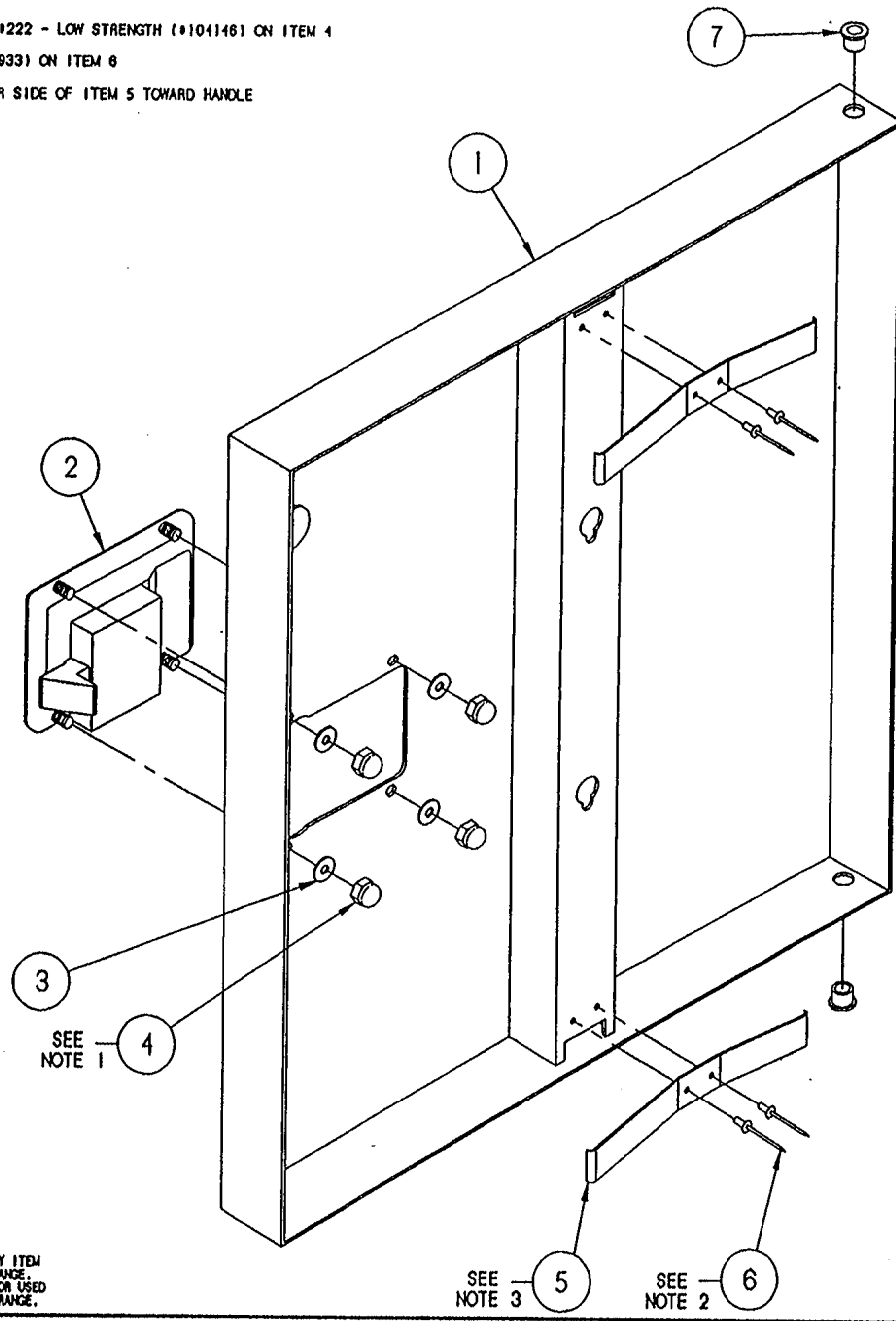
ITEM	QTY.	PART NO.	DESCRIPTION
6	1	104009	FITTING, ASSY, STEAM SUPPLY
5	1	104082	GASKET, STEAM INJECTOR
4	1	104232	WASHER, FLAT S/S
3	1	104081	NUT, JAM 5/8-18, BRASS
2	1	05236	ELBOW, 1/4" X 90°, BRASS
1	1	104048	FITTING, HOSE 1/2 H X 1/4 MPT

TOLERANCES (EXCEPT AS NOTED)		<p align="center"><b>CLEVELAND RANGE INC.</b></p> 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± .030	SCALE 1/2"	DRAWN BY DUTCHMAN	APPROVED BY THOMPSON
ANGULAR ± 1°	TITLE SPRAY NOZZLE ASSEMBLY STEAMCRAFT 3.1, 5.1 AND 10		
CK	DATE 02-12-93	DRAWING NO. A - 1062301	REV. -

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- NOTES : 1.) USE LOCTITE 1222 - LOW STRENGTH (#101146) ON ITEM 4  
 2.) USE RTV (#00933) ON ITEM 6  
 3.) ORIENT LONGER SIDE OF ITEM 5 TOWARD HANDLE



LET.	REVISIONS	DATE	BY
A	REDRAWN CADKEY, ADDED P/N'S 105901 HANDLEPLATE AND 104987 TINNERMAN NUT, PICTORIAL CHANGE PER EO KC-2441R2.	08-30-93	P.O.
B	P/N'S 105901 & 104987 REF. ONLY PER E.O. KC-2441 R3	08-05-93	P.O.
C	REMOVED P/N'S 105901 AND 104987 PER E.O. KC-2441 R6	08-07-11	P.O.

ITEM	QTY.	PART NO.	DESCRIPTION
7	2	103841	BUSHING, BRONZE
6	4	18357	RIVET, 1/8" DIA. FLUSH BREAK, S/S
5	2	102228	SPRINGS, DOOR
4	4	14679	NUT, #10-24 ACORN, S/S
3	4	101855	WASHER, #10 FLAT, S/S
2	1	103843	LATCH, DOOR - PADDLE TYPE
1	1	1042072	DOOR, OUTER WELD ASSY, W/SCS TAB, S/C S.1, H.L.

TOLERANCES (EXCEPT AS NOTED)			
<b>CLEVELAND RANGE INC.</b> 1303 East 179th St. Cleveland, Ohio 44110-2574			
DECIMAL ± N/A	SCALE 5/8=1	DRAWN BY JTW	APPROVED BY
ANGULAR ± N/A	TITLE DOOR, OUTER ASSEMBLY, H.L. SC 5.1 & SC 10 W-SWITCH ACTUATOR		
CK	DATE 02-04-93	DRAWING NO. C - 1042062	REV. C

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.

SEE NOTE 3 5

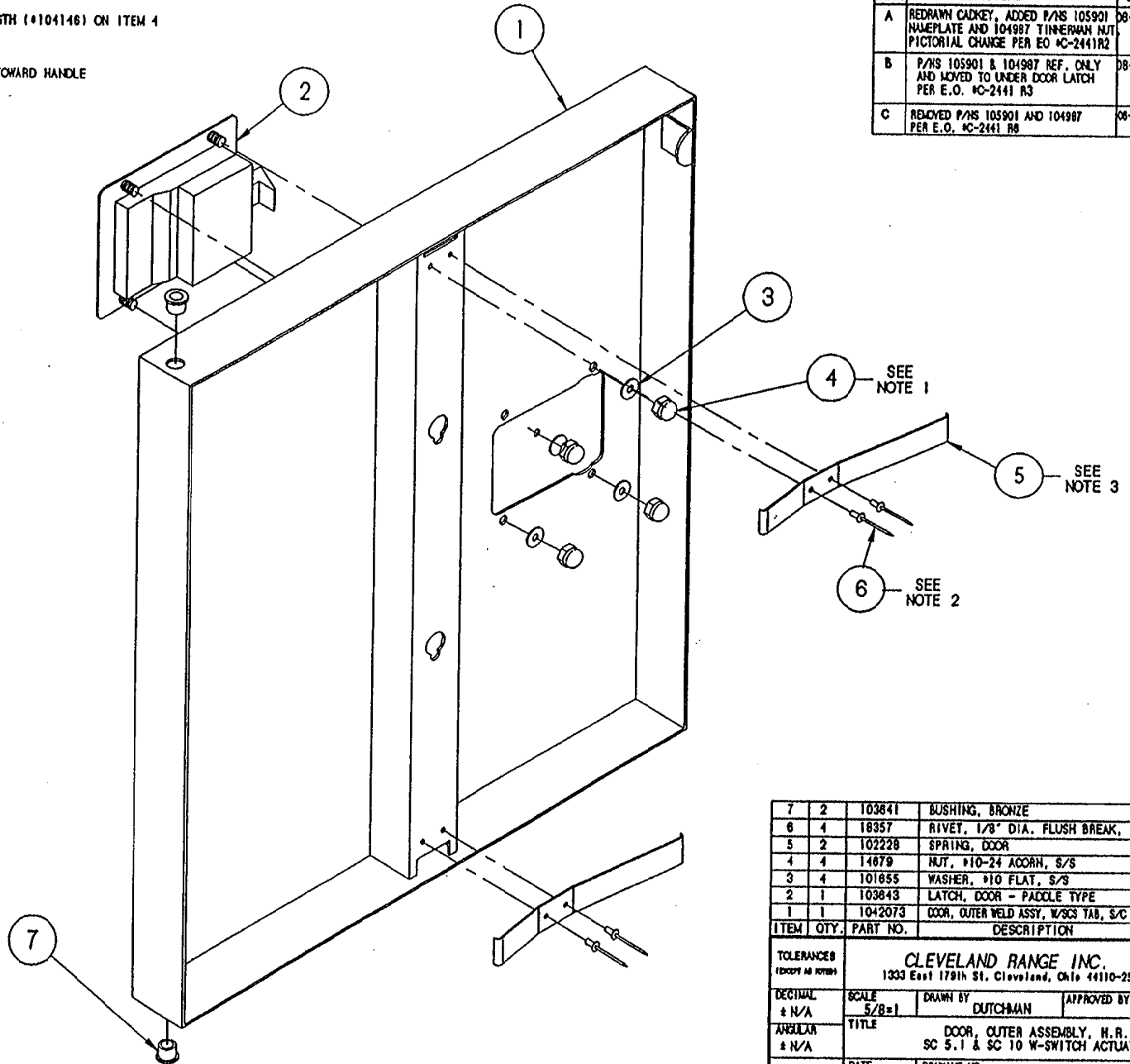
SEE NOTE 2 6

SEE NOTE 1 4

NOTES:

- 1.) USE LOCKTITE #222 - LOW STRENGTH (#104146) ON ITEM 4
- 2.) USE RTV (#00933) ON ITEM 6
- 3.) ORIENT LONGER SIDE OF ITEM 5 TOWARD HANDLE

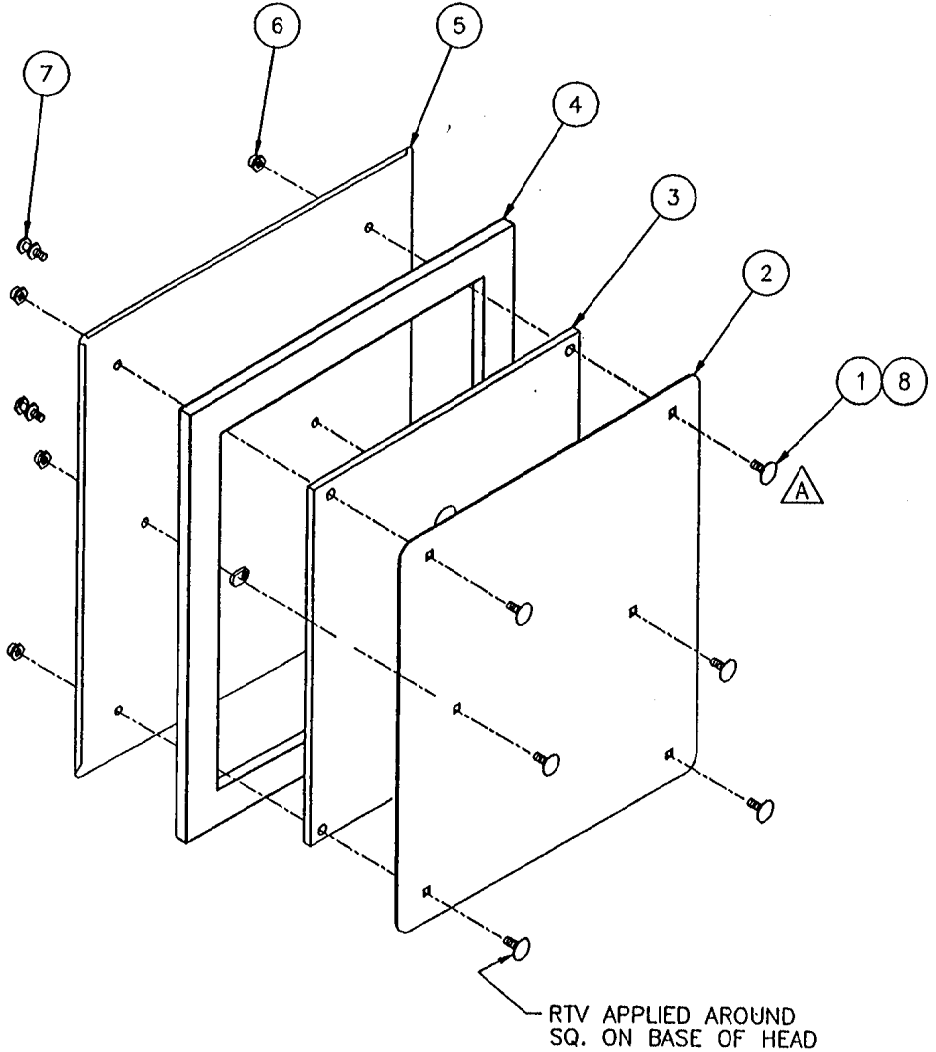
LET.	REVISIONS	DATE	BY
A	REDRAWN CADKEY, ADDED P/N'S 105901 WALEPLATE AND 104987 TINNERMAN NUT. PICTORIAL CHANGE PER EO #C-2441R2	08-28-93	P.J.D.
B	P/N'S 105901 & 104987 REF. ONLY AND MOVED TO UNDER DOOR LATCH PER E.O. #C-2441 R3	08-05-93	P.J.D.
C	REMOVED P/N'S 105901 AND 104987 PER E.O. #C-2441 R8	08-07-94	P.J.D.



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7	2	103841	BUSHING, BRONZE
6	4	18357	RIVET, 1/8" DIA. FLUSH BREAK, S/S
5	2	102228	SPRING, DOOR
4	4	14679	NUT, #10-24 ACORN, S/S
3	4	101855	WASHER, #10 FLAT, S/S
2	1	103843	LATCH, DOOR - PADDOLE TYPE
1	1	1042073	DOOR, OUTER WELD ASSY, W/SCS TAB, S/C S.I., H.R.
ITEM	QTY.	PART NO.	DESCRIPTION
TOLERANCES (EXCEPT AS NOTED)			<b>CLEVELAND RANGE INC.</b> 1333 East 179th St., Cleveland, Ohio 44110-2574
DECIMAL ± N/A	SCALE 5/8±1	DRAWN BY DUTCHMAN	APPROVED BY
ANGULAR ± N/A	TITLE DOOR, OUTER ASSEMBLY, H.R. SC 5.1 & SC 10 W-SWITCH ACTUATOR		
CK	DATE 08-30-93	DRAWING NO. C - 1042063	REV. C

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



ITEM	QTY	PART NO.	DESCRIPTION
8	A/R	00932	SEALANT, CLEAR RTV
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	GASKET, DOOR S/C 5.1
3	1	104022	PLATE, INNER GASKET 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"

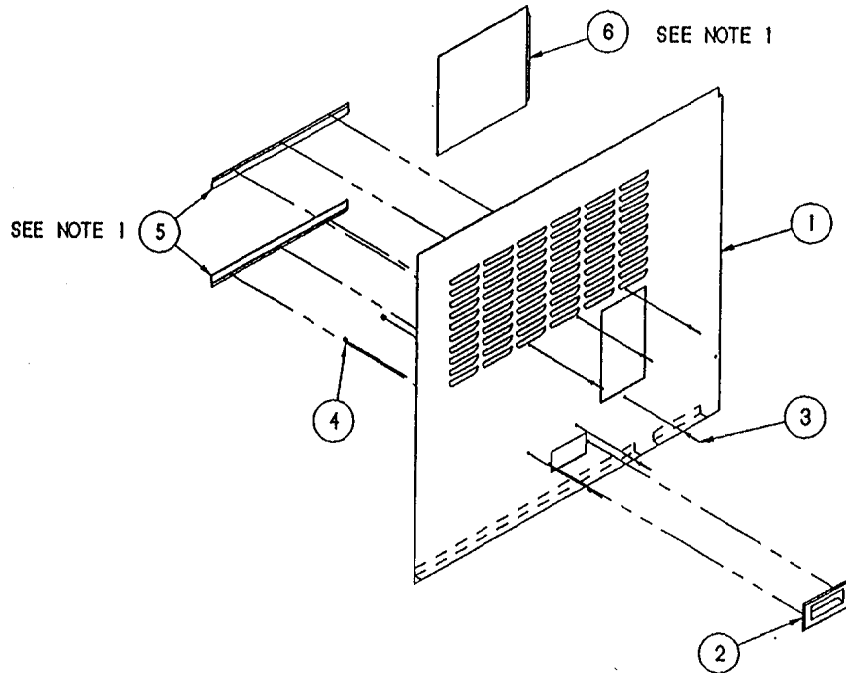
△

TOLERANCES (EXCEPT AS NOTED)		<b>CLEVELAND RANGE INC.</b> 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± -	SCALE NONE	DRAWN BY JPB	APPROVED BY
ANGULAR ± 1°	TITLE DOOR, INNER ASSY. STEAMCRAFT 5.1		
AC	DATE 6/25/91	DRAWING NO. B- 104202	REV A

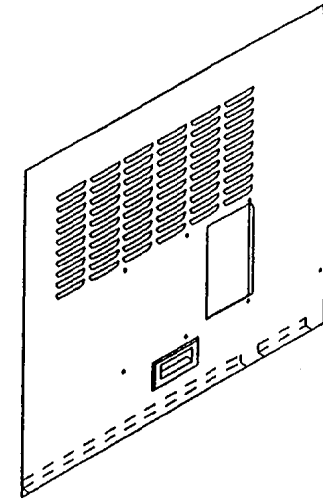
THIS DESIGN DESCRIBE THIS DRAWING IS NOT PROPRIETARY ITEM AND IS THE PROPERTY OF CLEVELAND RANGE. COPIED OR USED WITHOUT THE APPROVAL OF CLEVELAND RANGE.

NOTES:

- 1) FIRST ATTACH BOTTOM ANGLE (P/N 106844)  
NEXT ASSEMBLE DOOR (P/N 106845) INTO PLACE  
THEN ATTACH TOP ANGLE ON TO SIDE PANEL



LET.	REVISIONS	DATE	BY
-	NEW RELEASE PER E.O. C-2769	12-12-94	PJD



ITEM	QTY.	PART NO.	DESCRIPTION
6	1	106845	DOOR, PANEL, RIGHT, SC 10
5	2	106844	ANGLE, SCOR, PANEL, SC 10
4	2	14876	NUT, ACORN 10-32 S/S
3	6	18357	RIVET, FLUSH, 1/8" S/S
2	1	08108	HANDLE, DOOR, S/S
1	1	107119	PANEL, SIDE, RIGHT, TOP HALF

TOLERANCES  
(EXCEPT AS NOTED)

**CLEVELAND RANGE INC.**  
1333 East 179th St. Cleveland, Ohio 44110-2574

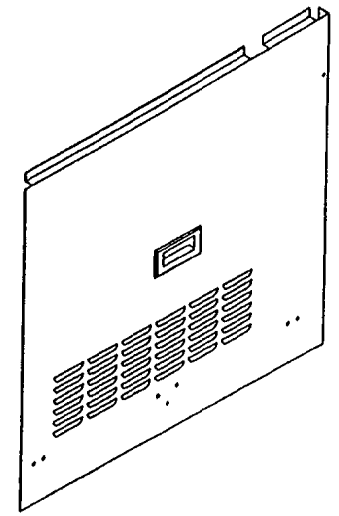
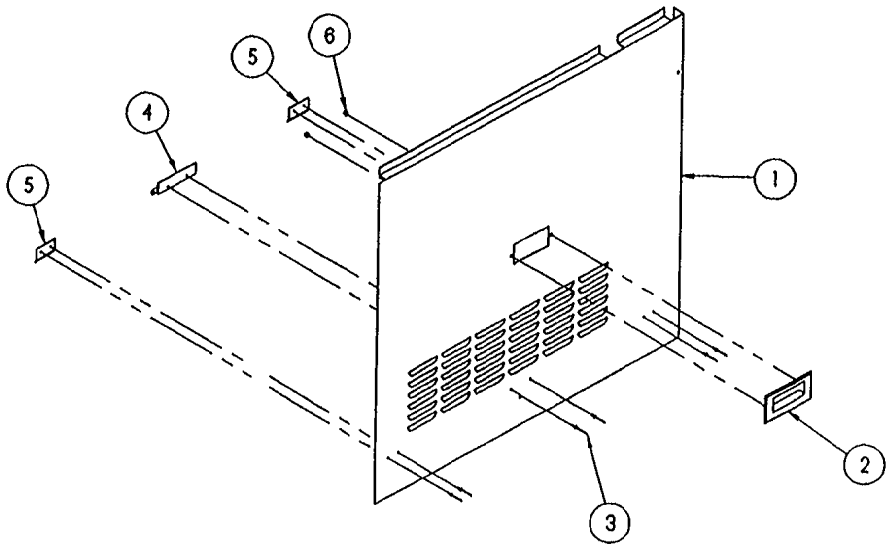
DECIMAL ± N/A SCALE 1/8 = 1 DRAWN BY DUTCHMAN APPROVED BY

ANGULAR ± N/A TITLE PANEL ASSY., RIGHT SIDE TOP HALF, S/C 10 PRESSURE

CK DATE 12-12-94 DRAWING NO. B - 107271 REV. -

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LET.	REVISIONS	DATE	BY
-	NEW RELEASE PER E.O. C-2769	12-12-94	PJD

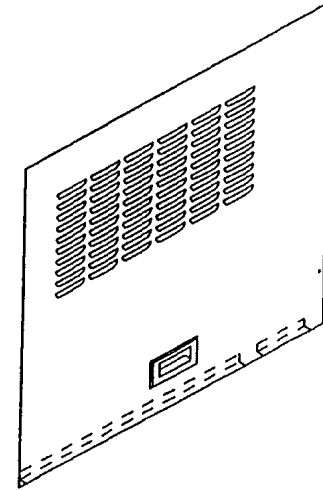
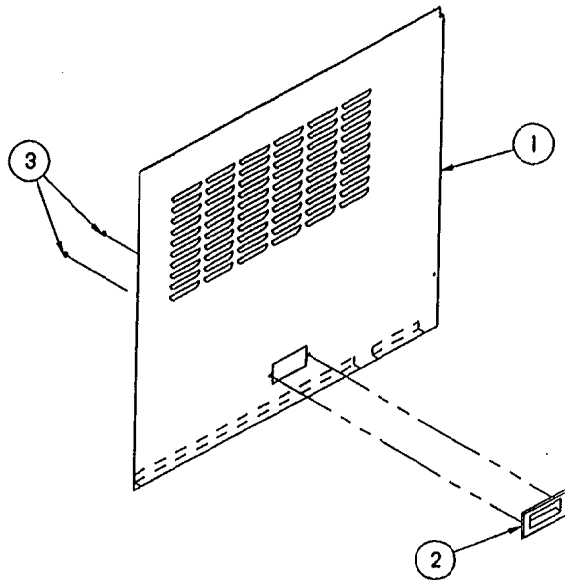


ITEM	QTY.	PART NO.	DESCRIPTION
6	2	14876	NUT, ACORN 10-32 S/S
5	2	108045	BRACKET, SIDE SUPPORT, SHORT
4	1	108044	BRACKET, SIDE SUPPORT, LONG
3	6	18357	RIVET, FLUSH, 1/8" S/S
2	1	08108	HANDLE, DOOR, S/S
1	1	1071201	PANEL, SIDE, RIGHT, BTM. HALF

TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574	
DECIMAL ± N/A	SCALE 1/8" = 1"	DRAWN BY DUTCHMAN	APPROVED BY
ANGULAR ± N/A	TITLE PANEL ASSY., RIGHT SIDE BOTTOM HALF, S/C 10		
CK	DATE 12-12-94	DRAWING NO. B - 107272	REV. -

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LET.	REVISIONS	DATE	BY
-	NEW RELEASE PER E.O. C-2769	12-12-94	PJD

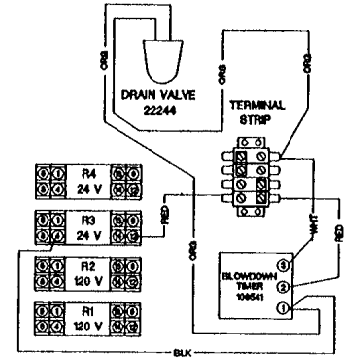
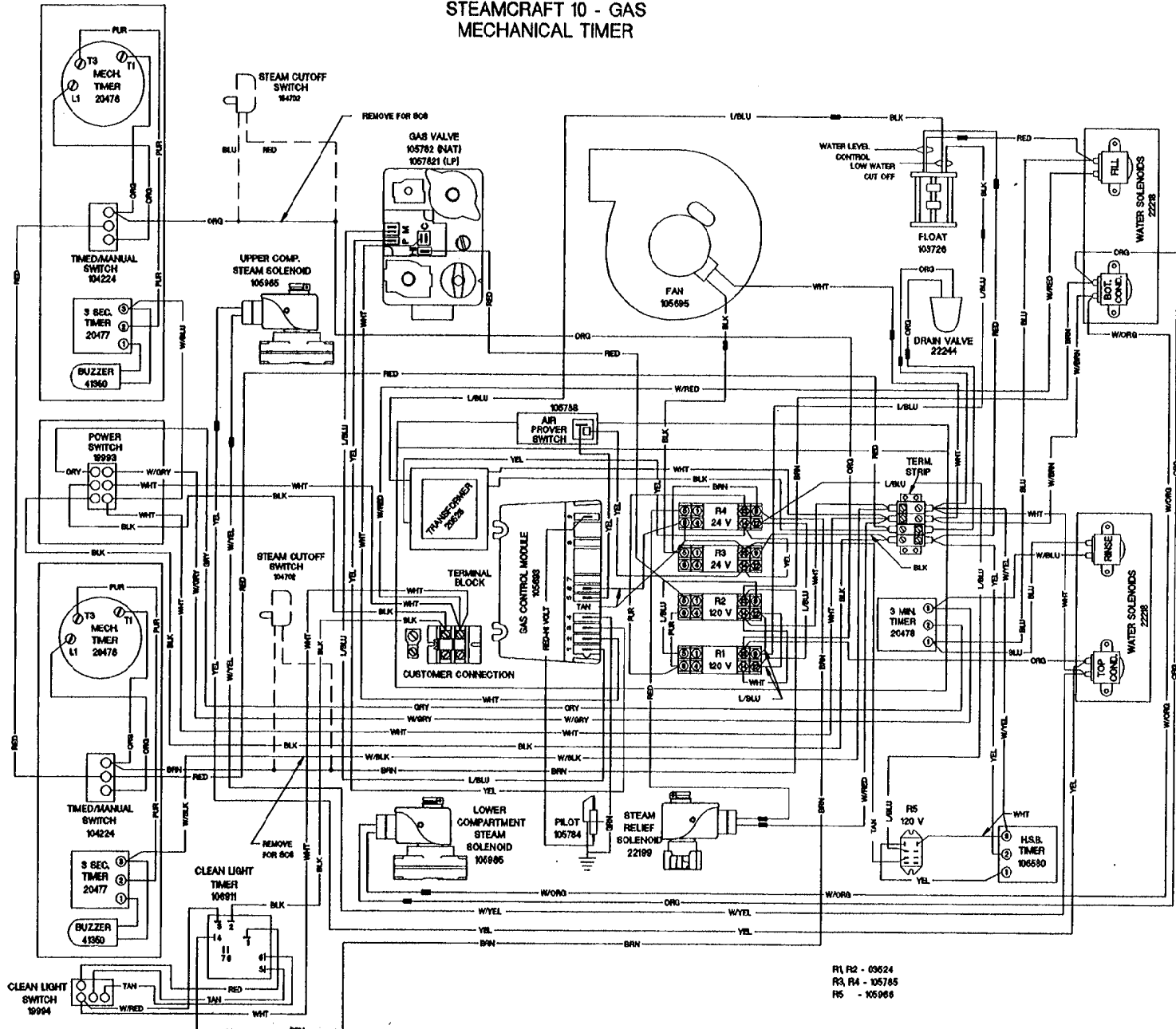


3	2	14676	NUT, ACORN 10-32 S/S	
2	1	08108	HANDLE, DOOR, S/S	
1	1	107121	PANEL, SIDE, RIGHT, TOP HALF	
ITEM	QTY.	PART NO.	DESCRIPTION	
TOLERANCES (EXCEPT AS NOTED)		CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574		
DECIMAL ± N/A	SCALE 1/8 = 1	DRAWN BY DUTCHMAN	APPROVED BY	
ANGULAR ± N/A	TITLE PANEL ASSY., RIGHT SIDE TOP HALF, S/C 10 ULTRA & D.C.			
CK	DATE 12-12-94	DRAWING NO. B - 107273	REV. -	

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# STEAMCRAFT 10 - GAS MECHANICAL TIMER

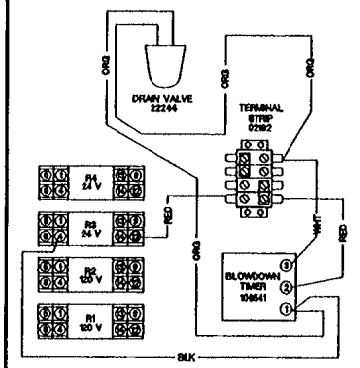
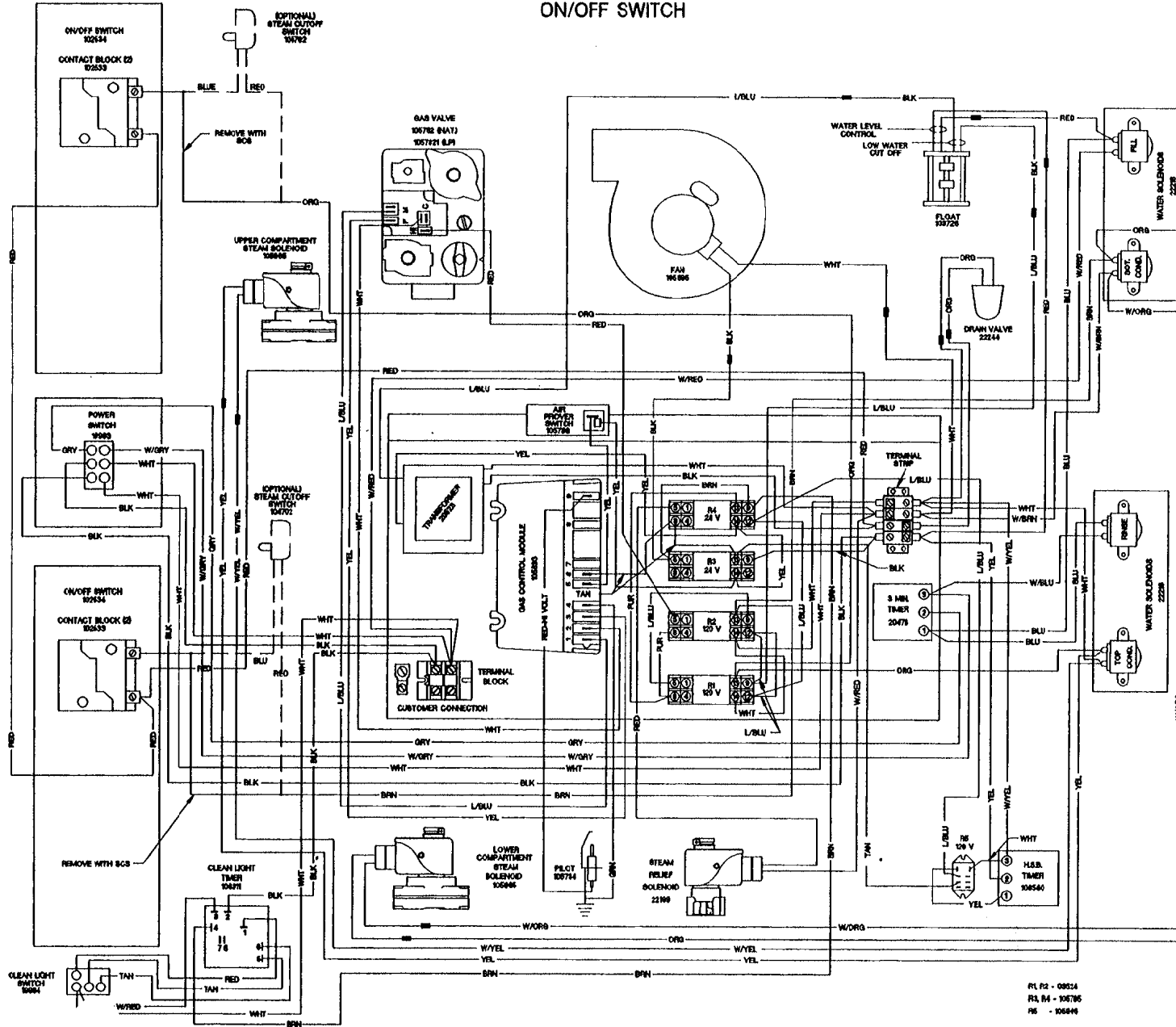


INTERMITTENT BLOWDOWN (OPTIONAL)

R1, R2 - 09524  
 R3, R4 - 105785  
 R5 - 105968



# STEAMCRAFT 10 - GAS ON/OFF SWITCH



## INTERMITTENT BLOWDOWN (OPTIONAL)

RL R2 - 09024  
 RS R4 - 106785  
 R6 - 106686

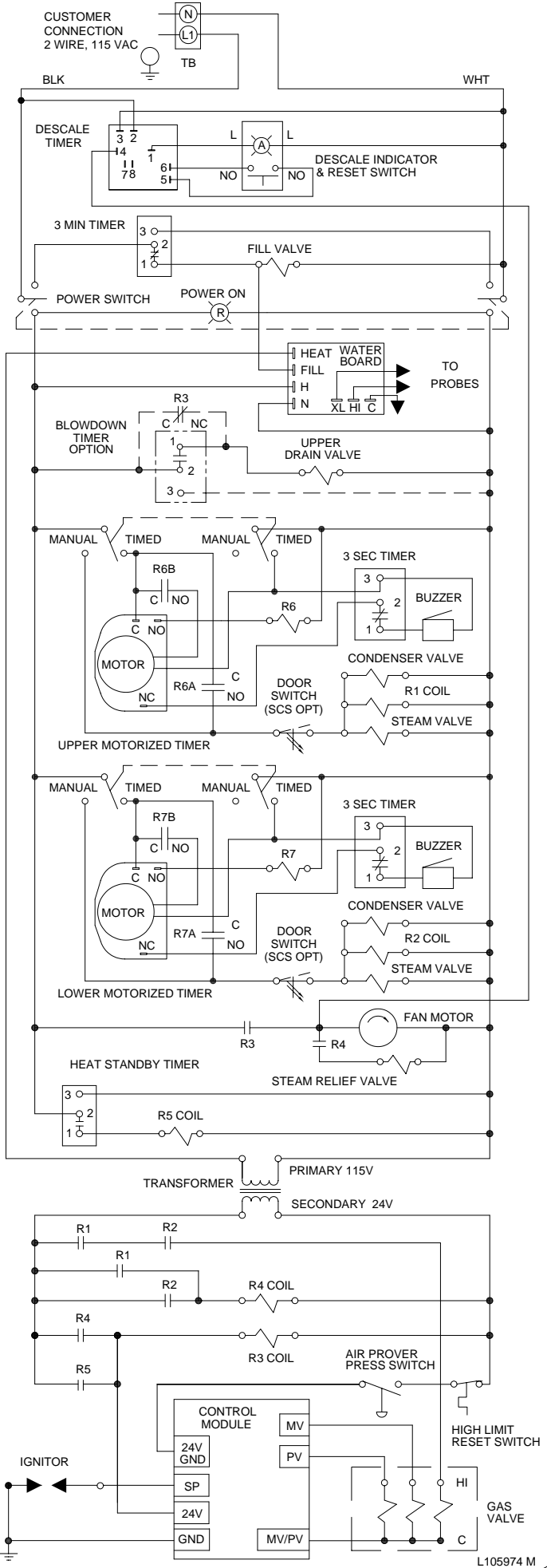
CLEVELAND RANGE 24CGA10  
SEQUENCE OF OPERATIONS  
Mechanical Timer

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 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 timed/manual switches.
  - 115 VAC is sent to the heat standby timer which will energize the R5 relay 20 seconds every 6 minutes to maintain heat while unit is idle
  
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 24 VAC heat circuit transformer.
  -
  
3. When the timed/manual switch is in the timed position and time is on the timer for the top cabinet only
  - 115 VAC is sent from the timer to the coil of the R6 relay.
    - The R6 relay energizes
    - R6B contacts close sending 115 VAC to the timer motor.
    - R6A contacts close sending 115 VAC through the door switch (optional) to the steam solenoid, condensate solenoid and R1 relay.
  - R1 is energized closing the R1 contacts.
    - 24 VAC is sent from the 24VAC transformer to the normally open contacts of R2.
    - 24 VAC is sent from the 24VAC transformer to the R4 coil.
  - R4 is energized and the R4 contacts are closed.
    - 24 VAC is sent to one side of the ignition module.
    - 24 VAC is sent to the R3 relay coil
  - R3 is energized and the R3 contacts are closed.
    - 115 VAC is sent through the now closed R4 contacts to the normally open steam relief valve closing it.
    - 115 VAC is sent to the fan motor.
    - The fan motor is energized and the air prover switch closes.
    - 24 VAC is sent through the normally closed highlimit and the now closed air prover switch to the other side of the ignition module.
  
4. With 24 VAC to both sides of the ignition module.
  - Spark is sent to the igniter.
  - 24VAC is sent to the pilot coil on the gas valve and gas is sent to the pilot.
  - When flame is generated and 1.0 micro amps DC is detected, 24 VAC is sent to the main coil of the gas valve igniting the main burner on low flame.

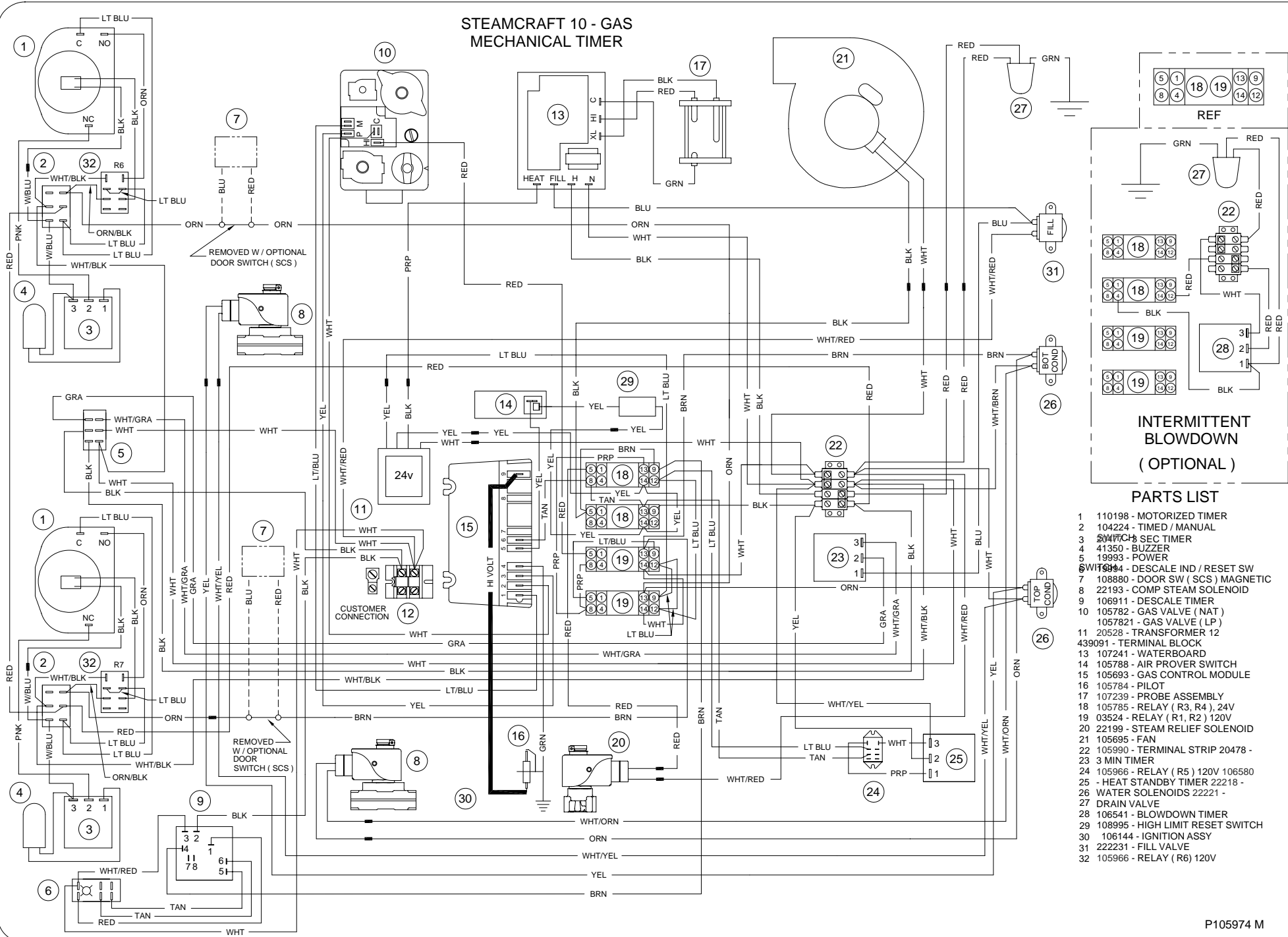
- Steam is energized and sent to the cooking compartment.
  - When the mechanical timer times down a buzzer will sound and the timer will open removing 115 VAC from the heat circuit.
5. When the timed/manual switch is in the timed position and time is on the timer for the bottom cabinet only
- 115 VAC is sent from the timer to the coil of the R7 relay.
    - The R7 relay energizes
    - R7B contacts close sending 115 VAC to the timer motor.
    - R7A contacts close sending 115 VAC through the door switch (optional) to the steam solenoid, condensate solenoid and R2 relay.
  - R2 is energized closing the R2 contacts.
    - 24 VAC is sent from the 24VAC transformer to the normally open contacts of R1.
    - 24 VAC is sent from the 24VAC transformer to the R4 coil.
  - R4 is energized and the R4 contacts are closed.
    - 24 VAC is sent to one side of the ignition module.
    - 24 VAC is sent to the R3 relay coil.
  - R3 is energized and the R3 contacts are closed.
    - 115 VAC is sent through the now closed R4 contacts to the normally open steam relief valve closing it.
    - 115 VAC is sent to the fan motor.
    - The fan motor is energized and the air prover switch closes sending 24 VAC to the other side of the ignition module.
6. With 24 VAC to both sides of the ignition module.
- Spark is sent to the igniter.
  - 24VAC is sent to the pilot coil on the gas valve and gas is sent to the pilot.
  - When flame is generated and 1.0 micro amps DC is detected, 24 VAC is sent to the main coil of the gas valve igniting the main burner on low flame.
  - Steam is energized and sent to the cooking compartment.
  - When the timer times down, the closed contact will open removing 115 VAC from the heat circuit.
    - 115 VAC will be sent through the now closed contacts to the 3-second timer.
    - For 3 seconds 115 VAC will be sent to the buzzer and it will buzzzzzz.
7. When the timed/manual switch is in the timed position and time is on the timer for both cabinets
- 115 VAC is sent from the timer through the door switch (optional) to both steam solenoids, both condensate solenoids and both relays.
  - Both relays are energized closing the relay contacts.
    - 24 VAC is sent from the 24VAC transformer through the R1 and R2 contacts to the high coil on the gas valve.
    - 24 VAC is sent from the 24VAC transformer to the R4 coil.
  - R4 is energized and the R4 contacts are closed.
    - 24 VAC is sent to one side of the ignition module.

- 24 VAC is sent to the R3 relay coil.
  - R3 is energized and the R3 contacts are closed.
    - 115 VAC is sent through the now closed R4 contacts to the normally open steam relief valve closing it.
    - 115 VAC is sent to the fan motor.
    - The fan motor is energized and the air prover switch closes sending 24 VAC to the other side of the ignition module.
8. With 24 VAC to both sides of the ignition module.
- Spark is sent to the igniter.
  - 24VAC is sent to the pilot coil on the gas valve and gas is sent to the pilot.
  - When flame is generated and 1.0 micro amps DC is detected 24 VAC is sent to the main coil of the gas valve igniting the main burner on high flame (the high coil was energized in step 7).
  - Steam is energized and sent to the cooking compartments.
  - When the timers time down the buzzers will sound and each timer will open removing 115 VAC from the heat circuit.
9. When the water level reaches the high probe then 115 VAC is removed form the FILL terminal and the fill solenoid is turned off.
10. After the water level drops below the high probe for 5 seconds 115 VAC is sent to the FILL terminal again.
11. 115 VAC is turned of by depressing the red on/off rocker switch.
- 115 VAC is removed from the timer and heating 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.
    - The fill solenoid is energized for 3 minutes flushing the drain.

# STEAMCRAFT 10 GAS - MECHANICAL CONTROL



# STEAMCRAFT 10 - GAS MECHANICAL TIMER



## INTERMITTENT BLOWDOWN (OPTIONAL)

### PARTS LIST

- 1 110198 - MOTORIZED TIMER
- 2 104224 - TIMED / MANUAL
- 3 20477CH - SEC TIMER
- 4 41350 - BUZZER
- 5 19993 - POWER
- 6 SW1594 - DESCALE IND / RESET SW
- 7 108880 - DOOR SW ( SCS ) MAGNETIC
- 8 22193 - COMP STEAM SOLENOID
- 9 106911 - DESCALE TIMER
- 10 105782 - GAS VALVE ( NAT )  
1057821 - GAS VALVE ( LP )
- 11 20528 - TRANSFORMER 12  
439091 - TERMINAL BLOCK
- 13 107241 - WATERBOARD
- 14 105788 - AIR PROVER SWITCH
- 15 105693 - GAS CONTROL MODULE
- 16 105784 - PILOT
- 17 107239 - PROBE ASSEMBLY
- 18 105785 - RELAY ( R3, R4 ), 24V
- 19 03524 - RELAY ( R1, R2 ) 120V
- 20 22199 - STEAM RELIEF SOLENOID
- 21 105695 - FAN
- 22 105990 - TERMINAL STRIP 20478 -  
23 3 MIN TIMER
- 24 105966 - RELAY ( R5 ) 120V 106580
- 25 - HEAT STANDBY TIMER 22218 -  
26 WATER SOLENOIDS 22221 -  
27 DRAIN VALVE
- 28 106541 - BLOWDOWN TIMER
- 29 108995 - HIGH LIMIT RESET SWITCH
- 30 106144 - IGNITION ASSY
- 31 222231 - FILL VALVE
- 32 105966 - RELAY ( R6 ) 120V

**CLEVELAND RANGE 24CGA10**  
**SEQUENCE OF OPERATIONS**  
**Electronic Timer**

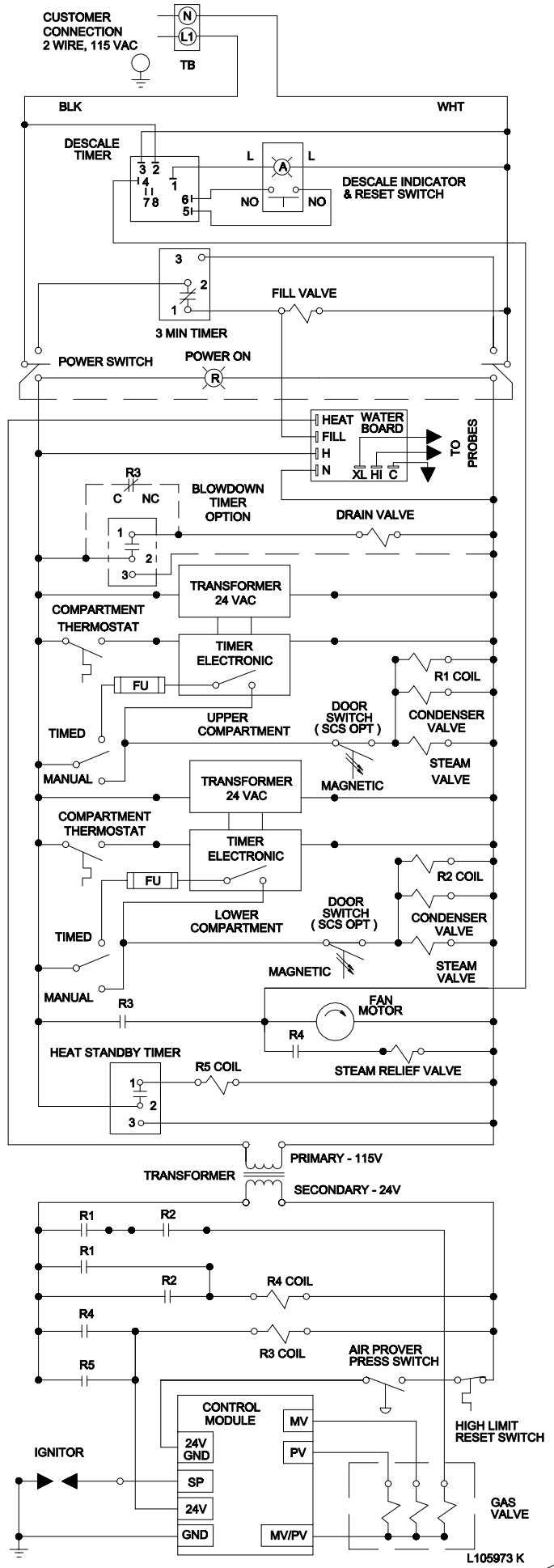
1. To turn the unit on, depress the red on/off rocker switch.
  - 115 VAC is sent to the red indicator light.
  - 115 VAC is sent to normally open drain valve closing it.
  - 115 VAC is sent to H and N of the water level board
  - 115 VAC is sent to the 24VAC transformer for the electronic timer.
  - 115 VAC is sent to the normally open compartment thermostat switch.
  - 115 VAC is sent to the timed/manual switch.
  
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 24 VAC heat transformer.
  - 115 VAC is sent to the heat standby timer which will energize 20 seconds every 6 minutes to maintain heat while unit is idle
  
3. When the timed/manual switch is in the timed position and time is on the timer for the top cabinet only
  - 115 VAC is sent from the timer through the door switch (optional) to the steam solenoid, condensate solenoid and R1 relay.
  - R1 is energized closing the R1 contacts.
    - 24VAC is sent from the 24VAC transformer to the normally open contacts of R2.
    - 24VAC is sent from the 24VAC transformer to the R4 coil.
  - R4 is energized and the R4 contacts are closed.
    - 24VAC is sent to one side of the ignition module.
    - 24VAC is sent to the R3 relay coil
  - R3 is energized and the R3 contacts are closed.
    - 115 VAC is sent through the now closed R4 contacts to the normally open steam relief valve closing it.
    - 115 VAC is sent to the fan motor.
    - The fan motor is energized and the air prover switch closes.
    - 24VAC is sent through the normally closed highlimit and the now closed air prover switch to the other side of the ignition module.
  
4. With 115 VAC to both sides of the ignition module.
  - Spark is sent to the igniter.
  - 24VAC is sent to the pilot coil on the gas valve and gas is sent to the pilot.
  - When flame is generated and 1.0 micro amps DC is detected, 24VAC is sent to the main coil of the gas valve igniting the main burner on low flame.
  - 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 electronic timer times down a buzzer will sound and the timer will open removing 115 VAC from the heat circuit.
5. When the timed/manual switch is in the timed position and time is on the timer for the bottom cabinet only
- 115 VAC is sent from the timer through the door switch (optional) to the steam solenoid, condensate solenoid and R2 relay.
  - R2 is energized closing the R2 contacts.
    - 24VAC is sent from the 24VAC transformer to the normally open contacts of R1.
    - 24VAC is sent from the 24VAC transformer to the R4 coil.
  - R4 is energized and the R4 contacts are closed.
    - 24VAC is sent to one side of the ignition module.
    - 24VAC is sent to the R3 relay coil.
  - R3 is energized and the R3 contacts are closed.
    - 115 VAC is sent through the now closed R4 contacts to the normally open steam relief valve closing it.
    - 115 VAC is sent to the fan motor.
    - The fan motor is energized and the air prover switch closes sending 24VAC to the other side of the ignition module.
6. With 24VAC to both sides of the ignition module.
- Spark is sent to the igniter.
  - 24VAC is sent to the pilot coil on the gas valve and gas is sent to the pilot.
  - When flame is generated and 1.0 micro amps DC is detected, 24VAC is sent to the main coil of the gas valve igniting the main burner on low flame.
  - 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 electronic timer will stop flashing “PAUS” and 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.
7. When the timed/manual switch is in the timed position and time is on the timer for both cabinets
- 115 VAC is sent from the timer through the door switch (optional) to both steam solenoids, both condensate solenoids and both relays.
  - Both relays are energized closing the relay contacts.
    - 24VAC is sent from the 24VAC transformer through the R1 and R2 contacts to the high coil on the gas valve.
    - 24VAC is sent from the 24VAC transformer to the R4 coil.
  - R4 is energized and the R4 contacts are closed.
    - 24VAC is sent to one side of the ignition module.



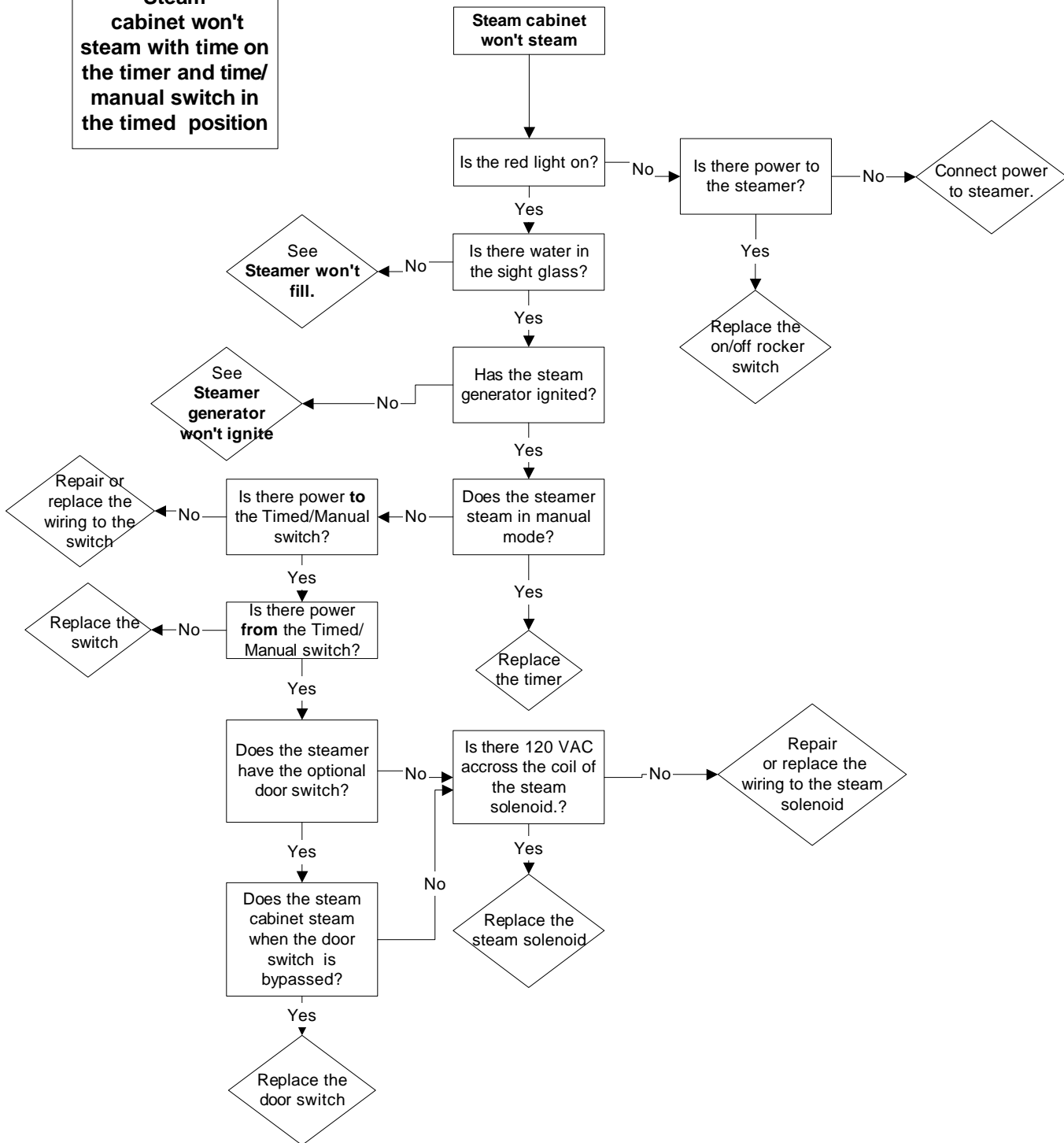
- 24VAC is sent to the R3 relay coil.
  - R3 is energized and the R3 contacts are closed.
    - 115 VAC is sent through the now closed R4 contacts to the normally open steam relief valve closing it.
    - 115 VAC is sent to the fan motor.
    - The fan motor is energized and the air prover switch closes sending 24VAC to the other side of the ignition module.
8. With 24VAC to both sides of the ignition module.
- Spark is sent to the igniter.
  - 24VAC is sent to the pilot coil on the gas valve and gas is sent to the pilot.
  - When flame is generated and 1.0 micro amps DC is detected 24VAC is sent to the main coil of the gas valve igniting the main burner on high flame (the high coil was energized in step 7).
  - Steam is energized and sent to the cooking compartments.
  - When the cooking compartments reach 193 degrees the compartment thermostats close sending 115 VAC to the timers.
  - The timers will then begin counting down.
  - When the timers time down a buzzer will sound and the timer will open removing 115 VAC from the heat circuit.
9. When the water level reaches the high probe then 115 VAC is removed from the FILL terminal and the fill solenoid is turned off.
10. After the water level drops below the high probe for 5 seconds 115 VAC is sent to the FILL terminal again.
11. 115 VAC is turned off by depressing the red on/off rocker switch.
- 115 VAC is removed from the timer and heating 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.
    - The fill solenoid is energized for 3 minutes flushing the drain.

# STEAMCRAFT 10 GAS - ELECTRONIC CONTROL

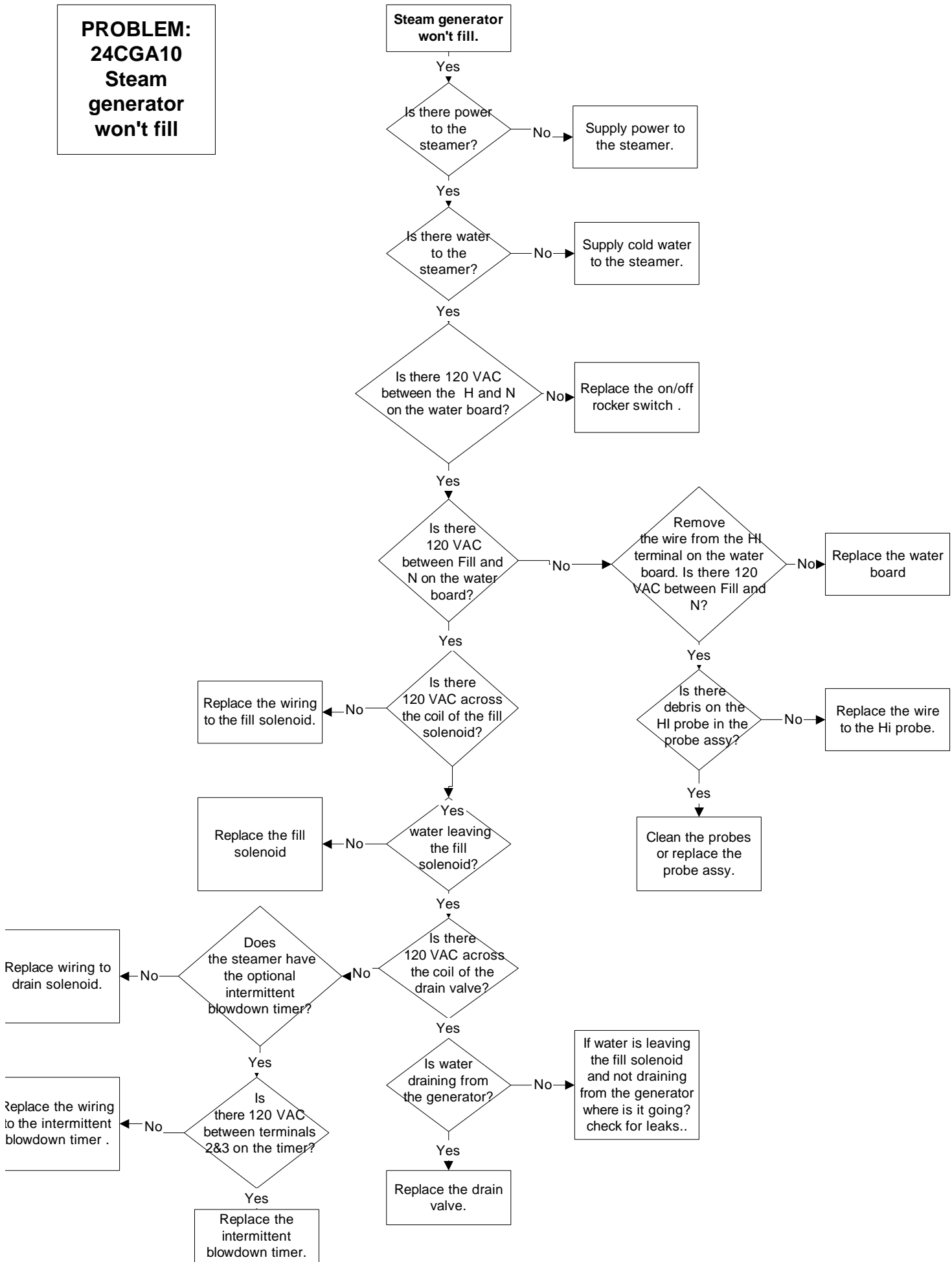




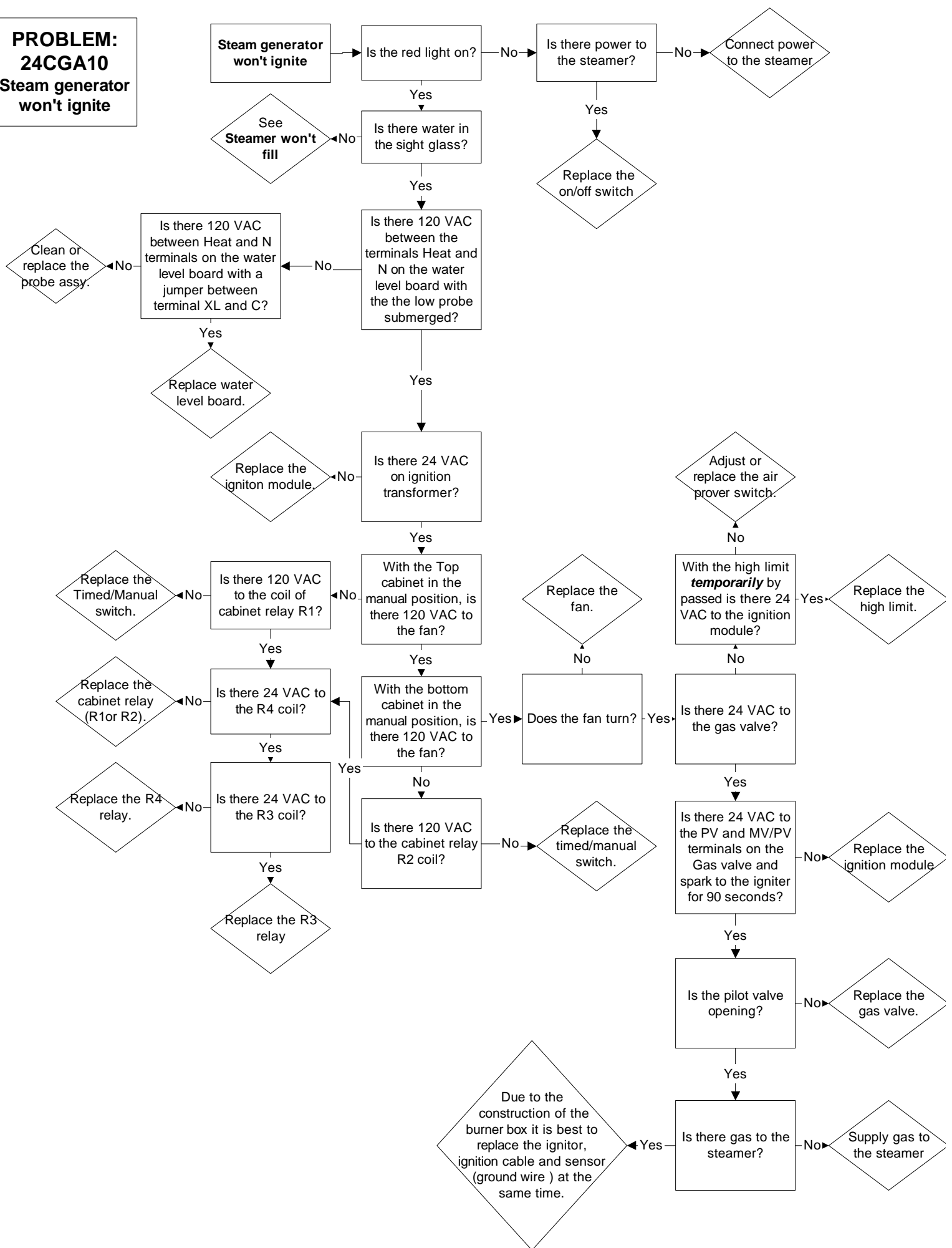
**PROBLEM:**  
**24CGA10**  
**Steam**  
**cabinet won't**  
**steam with time on**  
**the timer and time/**  
**manual switch in**  
**the timed position**



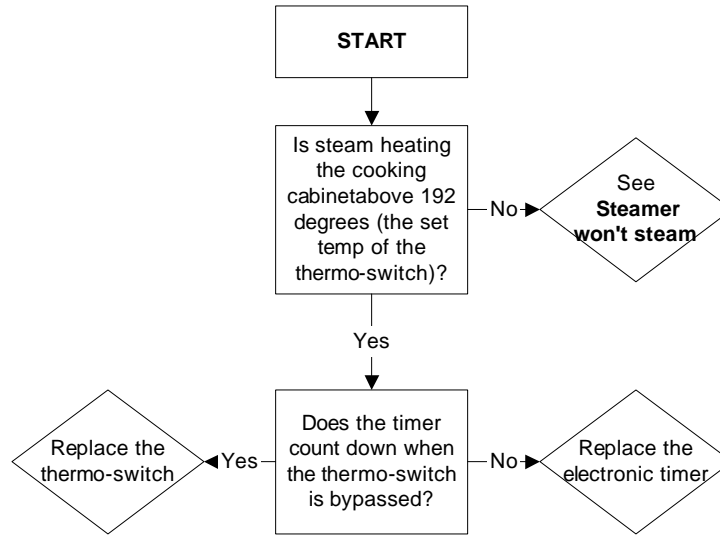
**PROBLEM:  
24CGA10  
Steam  
generator  
won't fill**



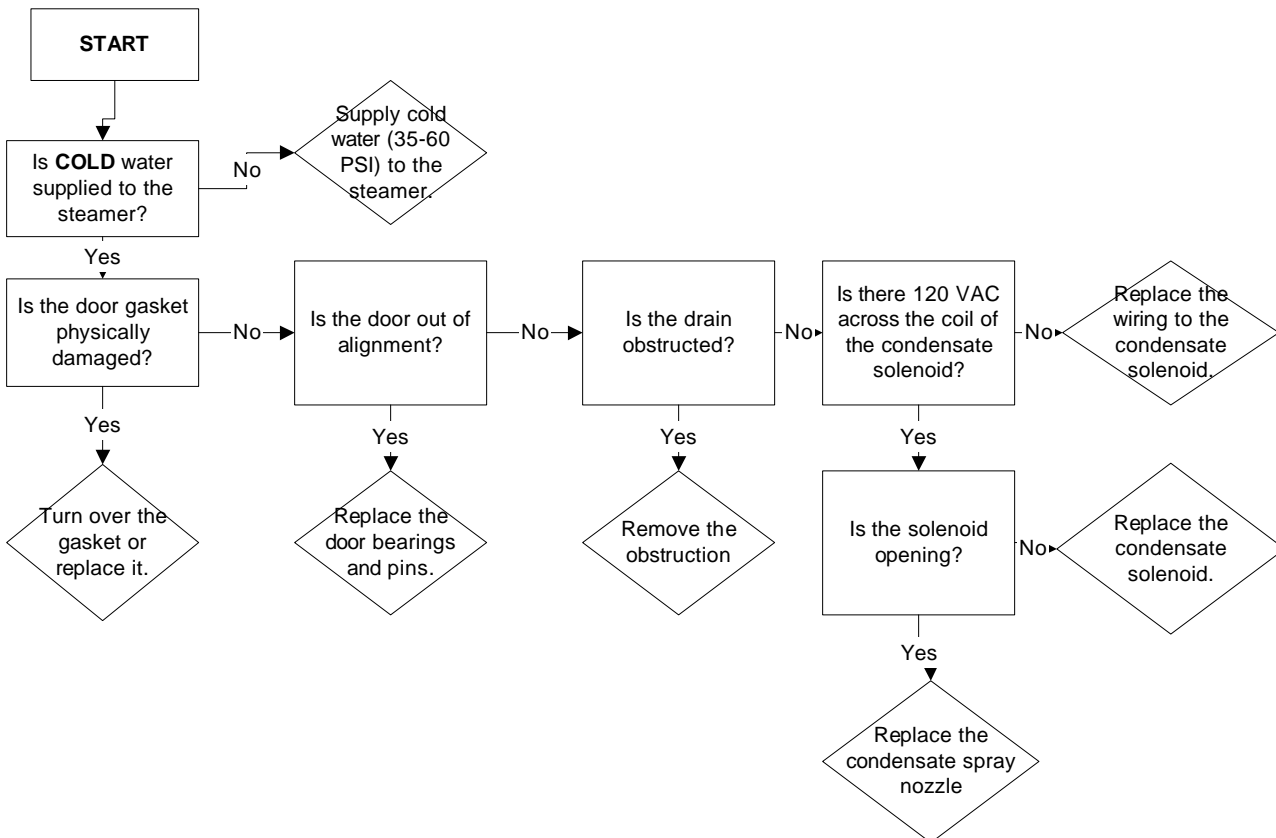
**PROBLEM:  
24CGA10  
Steam generator  
won't ignite**

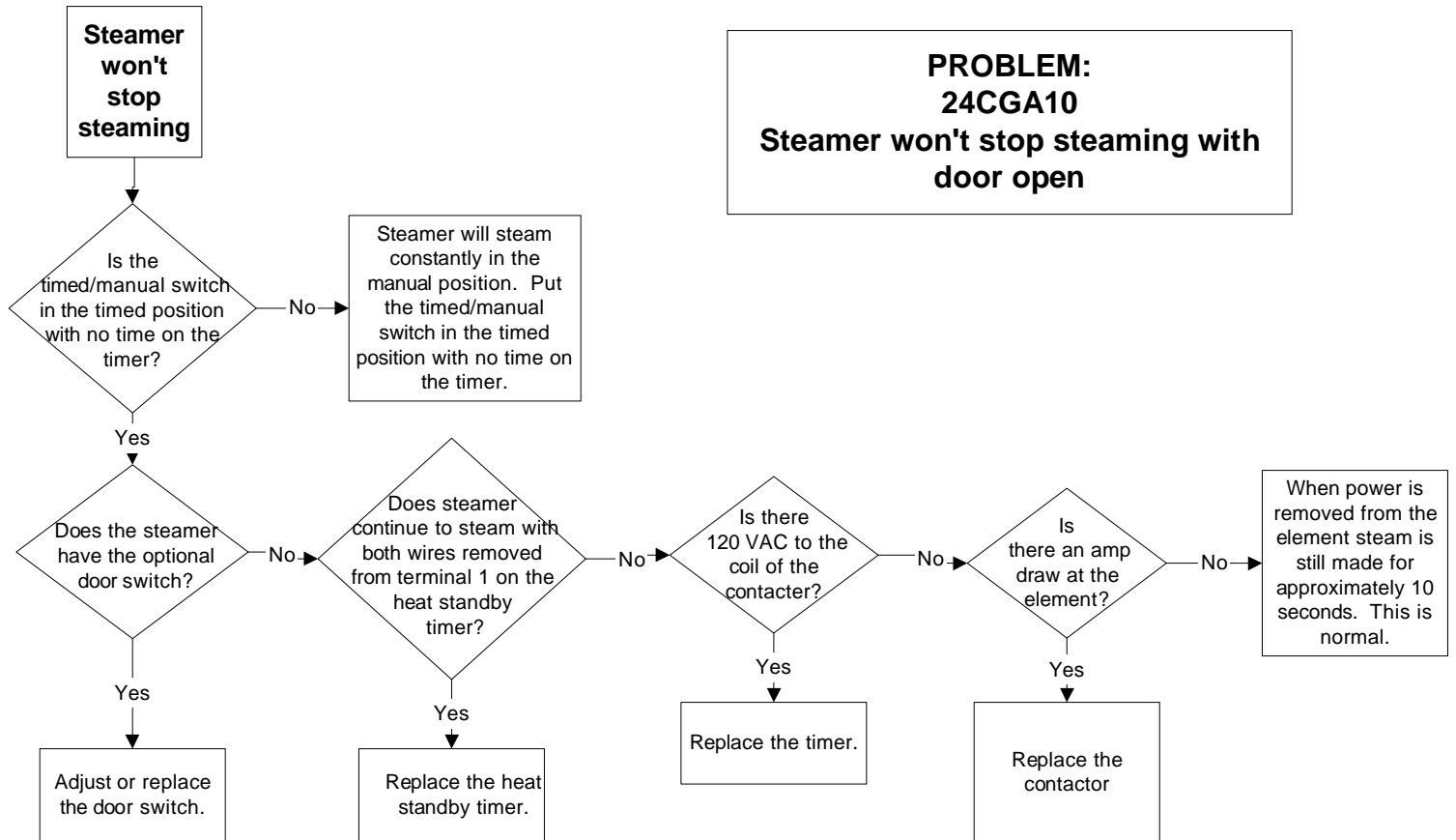


**PROBLEM:  
24CGA10  
Electronic timer displays "PAUS" and won't count down**

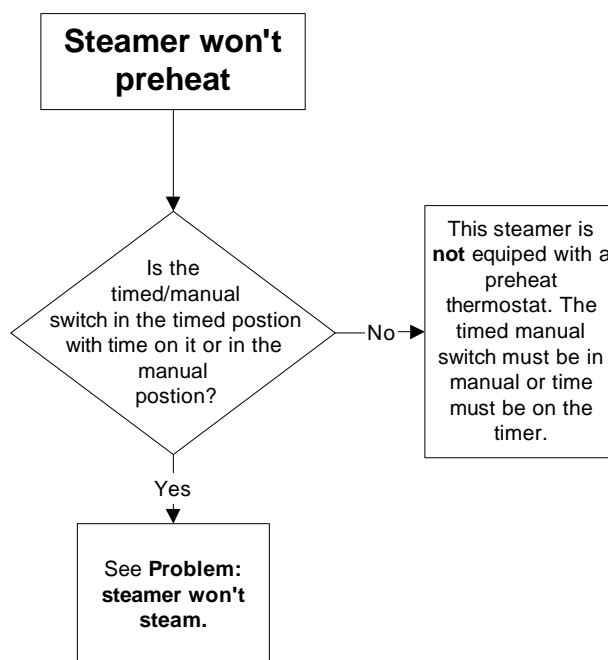


**PROBLEM:  
24CGA10  
Steam leaks around the door.**



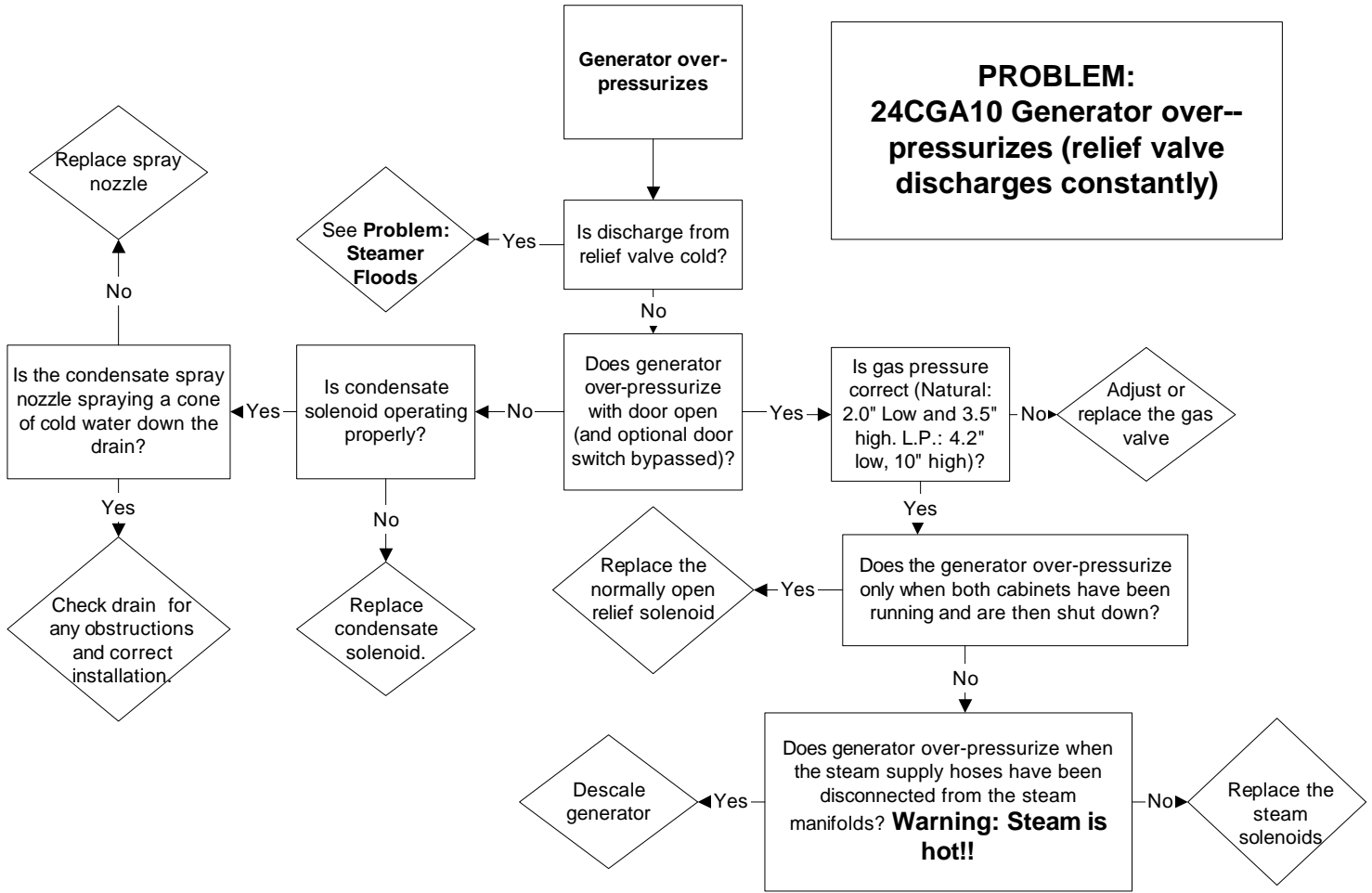


**Problem: 24CGA10 Steamer won't preheat**

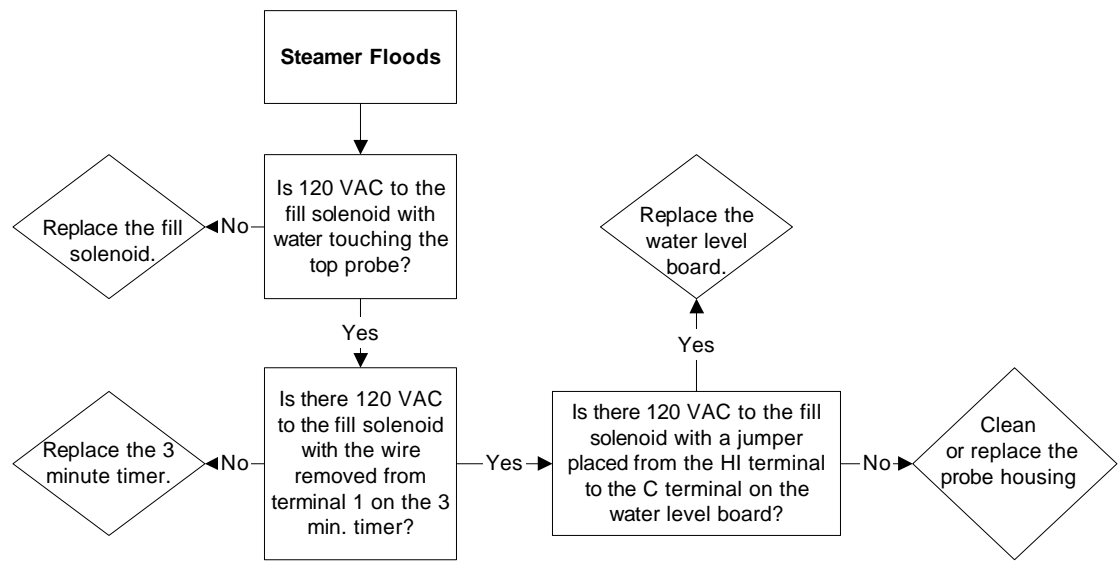




**PROBLEM:  
24CGA10 Generator over-  
pressurizes (relief valve  
discharges constantly)**



**Problem: 24CGA10 Steamer Floods (Water is entering cabinet through the steam nozzles)**



# Cleveland

## 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 DISSOLVE: (See chart above)**

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

**5. 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:**

**7. 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.**

**9. 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.