

Parts Manual

Counter Type Gas Convection Steamer



Series: SteamCraft Model 21CGA5

1333 East 179th Street
Cleveland, Ohio 44110

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

Fax: (216) 481-3782
www.clevelandrange.com

 Cleveland

NOTES:

- 1.1 SEE INSTRUCTION DRAWING 104104 FOR LABEL LOCATIONS.
- 2.1 SEE INSTRUCTION DRAWING 1042573 FOR HOSE LOCATIONS.
- 3.1 REVISION SYMBOLS (A, B) ARE PLACED NEXT TO AFFECTED ITEM NO. IN BILL OF MATERIALS ONLY.
- 4.1 FOR STEAM CUT-OFF SWITCH OPTION SEE DRAWING 104394 FOR LOCATION OF HOLES IN FACEPLATE AND DRAWING 104335 FOR PICTORIAL WIRING INFO.

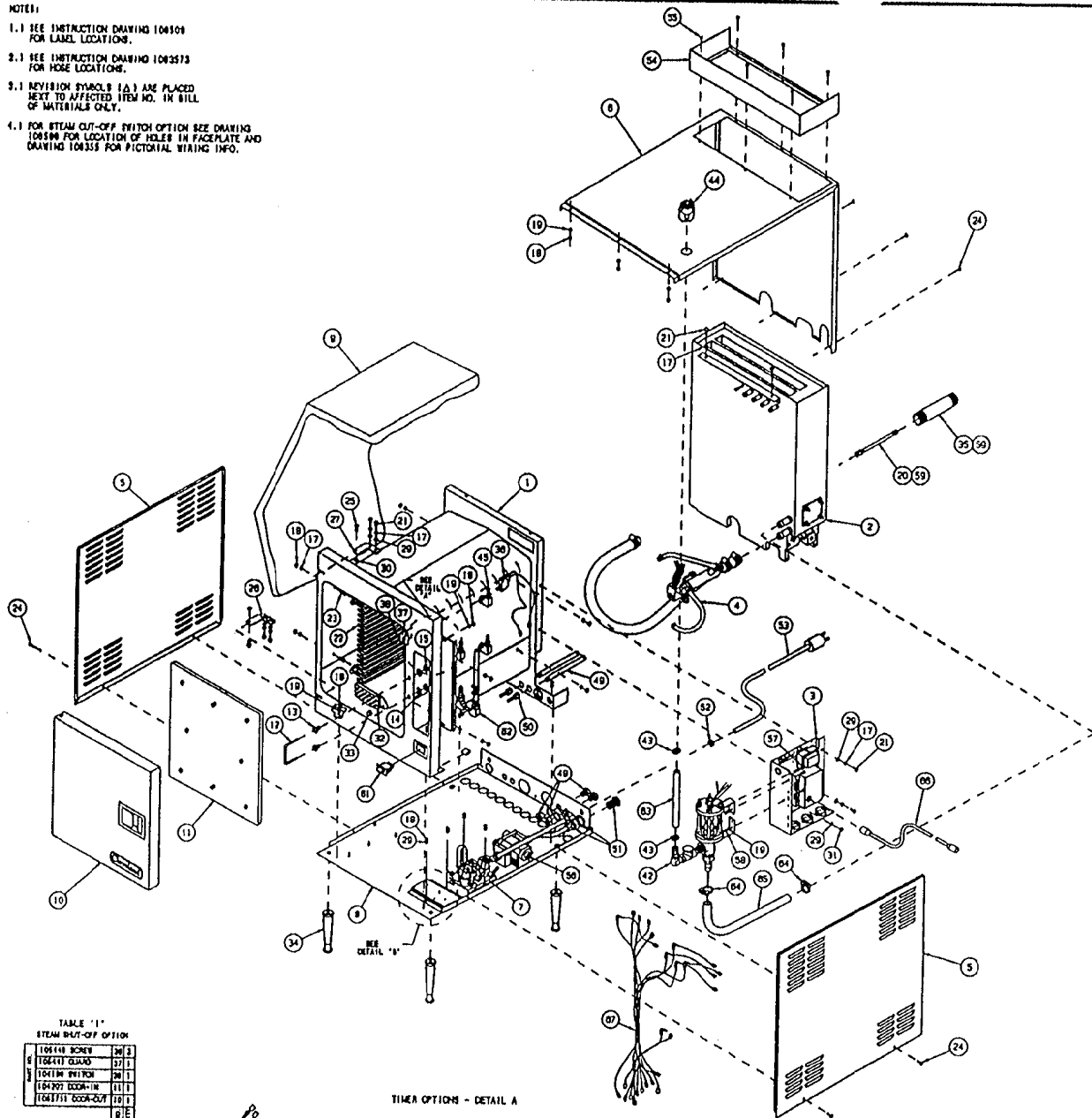
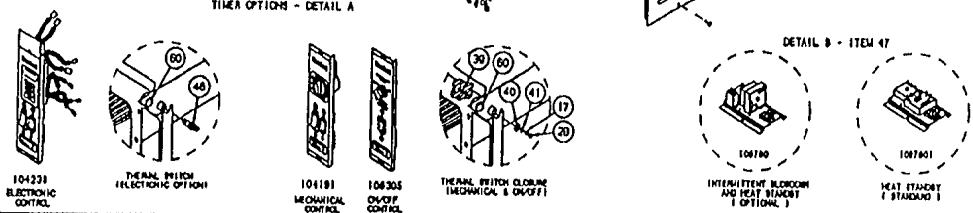


TABLE '1'
STEAM SHUT-OFF OPTION

| | | |
|-----------------|----|---|
| 104116 SCREW | 24 | 3 |
| 104417 GUARD | 27 | 1 |
| 104118 SWITCH | 28 | 1 |
| 104207 DOOR-IN | 11 | 1 |
| 104371 DOOR-OUT | 10 | 1 |

TIMER OPTIONS - DETAIL A

DETAIL B - ITEM 47



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

| LET. | REVISIONS | DATE | BY |
|------|---|----------|-----|
| A | UPDATED PER VARIATION E.O. 9 PER ED NO-2732 | 11-03-94 | PJD |

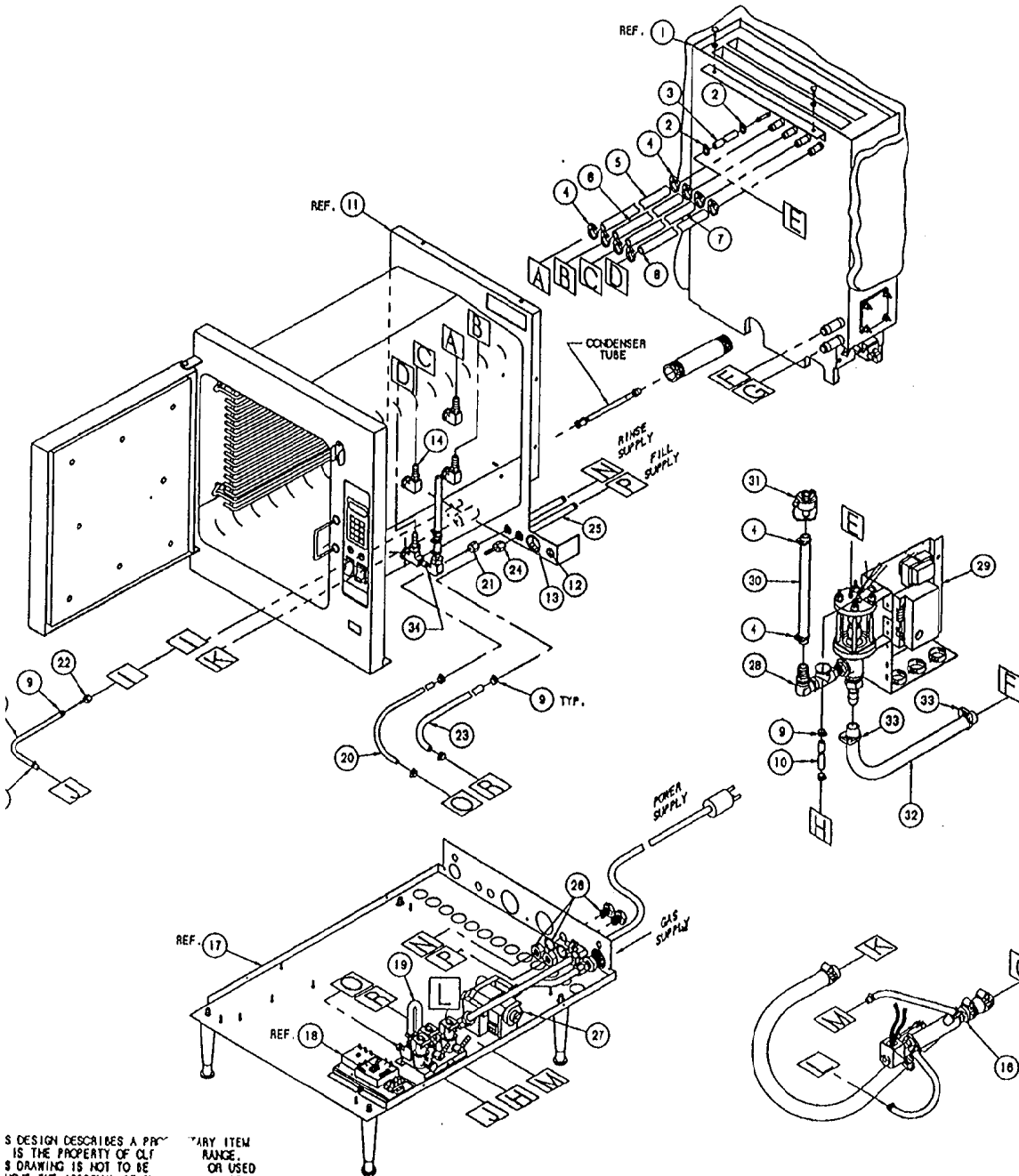
| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|------------|--------------------------------------|
| 97 | - | 104359 | WIRE HARNESS, MECHANICAL, SC 3/3 |
| - | - | 104358 | WIRE HARNESS, ELECTRONIC, SC 3/3 |
| 86 | 1 | 1043581000 | HARNESS, WIRE, HIGH VOLTAGE |
| 85 | 1 | 1040931400 | HOSE, SILICONE 3/4 ID X 1 CO X 14 |
| 84 | 2 | 105847 | CLAMP, PLASTIC 1-1/8 CO HOSE |
| 83 | 1 | 1044800900 | HOSE, SILICONE 1/2 ID X 3/4 CO X 9 |
| 82 | 1 | 1070591 | BREATHER/ SPRAY NOZZLE ASSEMBLY |
| 81 | 1 | 19994 | SWITCH, ROCKER, SPST (CLEAN LIGHT) |
| 80 | 2 | 234321 | D-CLIP, SMALL |
| 59 | A/R | 00934 | SEALANT, RECTORSEAL |
| 58 | 3 | 14892 | NUT, HEX LOCK ELASTIC 10-24 |
| 57 | 3 | 19287 | SCREW, PAN HEAD 10-24 X 1/2, S/S |
| 56 | - | 1041041 | VALVE ASSEMBLY, GAS, LP |
| 55 | 6 | 19148 | SCREW, HEX WASH HD, SLTD, #10 X 1/2 |
| 54 | 1 | 104444 | HOOD, FLUE CLUTER ASSM |
| 53 | 1 | 104461 | WIRE COOD ASM, 3 WIRE, 18 GA., 10SC |
| 52 | 1 | 104579 | BUSHING, HEYCO, STRAIN RELIEF |
| 51 | 1 | 104157 | FITTING, BULKHEAD 1/2" |
| 50 | 2 | 104488 | FITTING, HOSE 1/4 H X 1/4 FPT |
| 49 | 2 | 104457 | NIPPLE, 1/4 X 1 LG., BRASS |
| 48 | 2 | 03841 | FITTING, BULKHEAD 1/4" |
| 47 | - | 1047801 | HEAT STANDBY PLATE |
| - | - | 104780 | HEAT STANDBY / INT. BLOWDOWN PLATE |
| 46 | - | 19972 | THERMAL SWITCH |
| 45 | 4 | 1042301 | SPRAY NOZZLE ASSY, SC 3/1, 3/1 & 10 |
| 44 | 1 | 104428 | PORT ASSEMBLY, DESCALER |
| 43 | 1 | 104818 | CLAMP, PLASTIC 3/4 O.D. HOSE |
| 42 | 1 | 104521 | FLOAT ASSEMBLY, DESCALER, SCS.1 GAS |
| 41 | - | 23131 | WASHER, FLAT, 5/16 |
| 40 | - | 23120 | WASHER, FLAT, 3/8 X 7/8 |
| 39 | - | 104409 | CLOSURE, THERMAL OPENING |
| 38 | - | 104149 | SCREW, TRUSS HD. 8-32 X .312, S/S |
| 37 | - | 104142 | GUARD, SWITCH PROTECTION |
| 36 | - | 104198 | SWITCH ASSY, OPT. STEAM SHUT-OFF |
| 35 | 1 | 104485 | NIPPLE, 1-1/2 X 8-1/2, BLACK |
| 34 | 4 | 1014301 | LEG, ADJUSTABLE, PLASTIC, 4" |
| 33 | 1 | 14877 | NUT, LOCK 1/4-20, S/S |
| 32 | 1 | 89298 | SCREEN, COMPARTMENT DRAIN |
| 31 | 3 | 14885 | NUT, HEX, ELASTIC LOCK, 1/4-20 |
| 30 | 2 | 104082 | HINGE, SHIP, S/S |
| 29 | 7 | 23118 | WASHER, FLAT 1/4 X 5/8, S/S |
| 28 | 8 | 14818 | NUT, HEX 1/4-20, S/S |
| 27 | 1 | 1040732 | HINGE ASSY, WELD, TOP |
| 26 | 1 | 1040731 | HINGE ASSY, WELD, BOTTOM |
| 25 | 2 | 104077 | PIN, HINGE |
| 24 | 7 | 104080 | SCREW, TRUSS HD. SHIT. MET. #8 X 1/2 |
| 23 | 8 | 101303 | PIN, RACK SUPPORT |
| 22 | 2 | 21423 | RACK, PAN SLIDE, 20" |
| 21 | 6 | 19170 | SCREW, HEX HEAD 1/4-20 X .625, S/S |
| 20 | 1 | 104840 | CONDENSER, ASSY, SPRAY |
| 19 | 12 | 101855 | WASHER, FLAT #10 S/S |
| 18 | 13 | 14872 | NUT, HEX LOCK, 10-32 |
| 17 | 17 | 23105 | WASHER, LOCK, 1/4 KATLINK, S/S |
| - | - | 104303 | PANEL, CONTROL ASSY, ON/OFF |
| 16 | - | 104181 | PANEL, CONTROL ASSY, MECHANICAL |
| - | - | 104238 | PANEL, CONTROL ASSY, ELECTRONIC |
| 15 | 2 | 14878 | NUT, LOCK 1/2-13 PREVAILING TORQUE |
| 14 | 2 | 23149 | WASHER-NYLON, TYPE 8-8 |
| 13 | 2 | 14895 | NUT, DOOR CATCH MOUNTING, S/S |
| 12 | 1 | 104048 | CATCH, DOOR |
| 11 | 1 | 104207 | DOOR ASSY., INNER |
| 10 | - | 104351 | DOOR ASSY., H.L. W/LOGO, W/ACTUATOR |
| - | - | 104375 | DOOR ASSY., H.L. W/LOGO |
| 9 | 1 | 104193 | INSULATION, BODY WRAP |
| 8 | 1 | 104459 | BASE, WELD ASSY, SCS.1 GAS |
| 7 | 1 | 104522 | VALVE ASSY, WATER INLET, SCS.1 GAS |
| 6 | 1 | 104338 | SHEETING, TOP/BACK, SCS.1 GAS |
| 5 | 2 | 104340 | SHEETING, SIDE, SCS.1 GAS |
| 4 | 1 | 104524 | VALVE ASSEMBLY, DRAIN, SCS.1 GAS |
| 3 | 1 | 104523 | COMPONENT PANEL ASSY, SCS.1 GAS |
| 2 | 1 | 104047 | GENERATOR ASSEMBLY, SCS.1 GAS |
| 1 | 1 | 1041971 | CAVITY, WELD ASSY, SCS.1 H.L. |

| | | | | | | | |
|---|-------|----------|-------------|------------|----------|-------------|---|
| TOLERANCES (EXCEPT AS NOTED) | | SCALE | | DRAWN BY | | APPROVED BY | |
| DECIMAL | ± N/A | SCALE | N/A | DRAWN BY | DUTCHMAN | APPROVED BY | |
| ANGULAR | ± N/A | TITLE | | | | | |
| STEAMCRAFT ULTRA S, GAS, H.L. FINAL ASSEMBLY, ALL OPTIONS | | | | | | | |
| CK | DATE | 08-02-93 | DRAWING NO. | C - 106451 | | REV. | A |

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

NOTES:

1.1 SEE INDIVIDUAL ASSEMBLY DRAWINGS



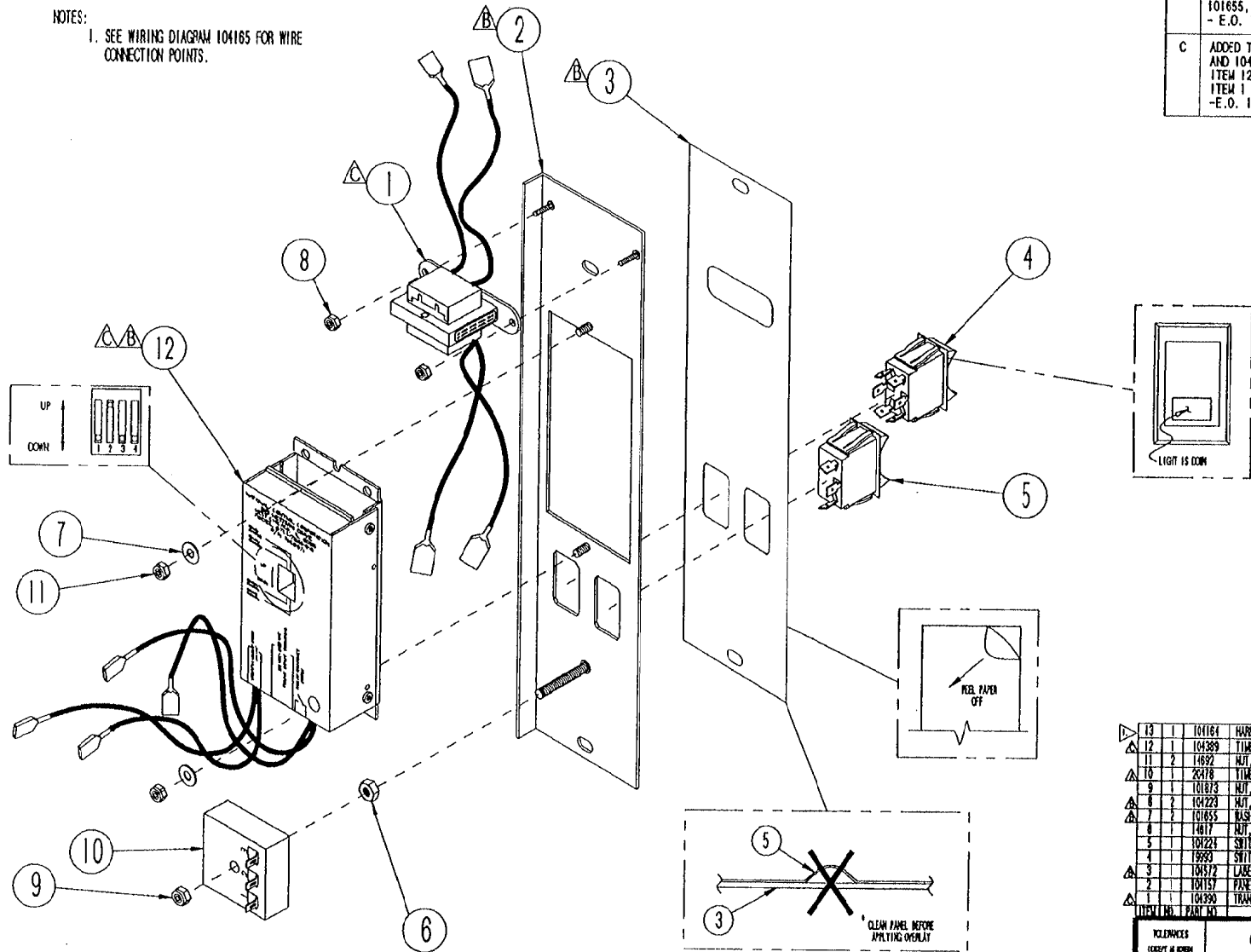
THIS DESIGN DESCRIBES A PRODUCT WHICH IS THE PROPERTY OF CLEVELAND RANGE. THIS DRAWING IS NOT TO BE REPRODUCED WITHOUT THE APPROVAL OF CLEVELAND RANGE.

| LET. | REVISIONS | DATE | BY |
|------|--|----------|-----|
| A | P/41 108384 WAS 108524 AND ADDED P/45 104382, 1058500800, 108591, & 1088500400 | 08-03-93 | PJD |
| B | REMOVED FLOW RESTRAINT ASSY AND ADDED 1/8" I.D. HOSES & FITTINGS AND 108522 REPLACED 104687 AND 108526 REPLACED 108219 AND 108524 REPLACED 108384 AND 108488 REPLACED 104381 PER E.O. KC-2192 R1 | 09-09-93 | PJD |
| C | UPDATED PER VARIOUS E.O.'S - SEE E.O. KC-2132 | 11-07-94 | PJD |

| | | | |
|----|----|------------|-------------------------------------|
| 34 | 1 | 1070591 | BREATHER/SPRAY NOZZLE ASSEMBLY |
| 33 | 2 | 105847 | CLAMP, PLASTIC 1-1/8 HOSE |
| 32 | 1 | 1080931400 | HOSE, SILICONE 3/4 X 1.00 X 14 LG. |
| 31 | - | 108428 | PORT ASSY, DESCALER |
| 30 | 1 | 1044880900 | HOSE, SILICONE 1/2 X 3/4 X 9 LG. |
| 29 | - | 108523 | COMPONENT PANEL ASS'Y., SC 5.1, GAS |
| 28 | 1 | 108521 | FLOAT / DESCALER ASS'Y, SC 5.1, GAS |
| 27 | - | 108404 | GAS VALVE ASS'Y. |
| 26 | 2 | 03841 | COUPLING, BULKHEAD, 1/4 IPS, BRASS |
| 25 | 2 | 108457 | NIPPLE, 1/4 X 7 LG., BRASS |
| 24 | 1 | 108488 | FITTING, HOSE 1/4 H X 1/4 FPT, STR |
| 23 | 1 | 1058501300 | HOSE, NT-80, 1/4 X 1/2 X 13" LG. |
| 22 | 1 | 108882 | FITTING, HOSE 1/8 H X 1/8 FPT, STR |
| 21 | 1 | 108885 | FITTING, HOSE 1/8 H X 1/4 FPT, STR. |
| 20 | 1 | 1088841500 | HOSE, NT-80, 1/8 X 3/8 X 15" LG. |
| 19 | 1 | 108522 | VALVE ASS'Y, WATER INLET |
| 18 | - | 1087601 | HEAT STANDBY PLATE |
| 17 | - | 108760 | HEAT STANDBY / INT. BLOWDOWN PLATE |
| 16 | - | 108439 | BASE, WELD ASSEMBLY |
| 15 | 1 | 108524 | VALVE ASSEMBLY, DRAIN |
| 14 | 3 | 1088842800 | HOSE, NT-80, 1/8 X 3/8 X 28 LG. |
| 13 | 1 | 1082301 | SPRAY NOZZLE ASSEMBLY, STEAMCRAFT |
| 12 | 1 | 102581 | HEYCO BUSHING, INSULATOR, 7/8" |
| 11 | 1 | 02800 | HEYCO BUSHING SB-875-11, INSULATOR |
| 10 | 1 | 1041971 | CAVITY, WELD ASSEMBLY |
| 9 | 8 | 1058501900 | HOSE, NT-80, 1/4 X 1/2 X 19" LG. |
| 8 | 1 | 108528 | HOSE CLAMP, METAL 3/8 X 5/8 X 5/16 |
| 7 | 1 | 1044882700 | HOSE, SILICONE, 1/2 X 3/4 X 27 LG. |
| 6 | 1 | 1044882000 | HOSE, SILICONE, 1/2 X 3/4 X 20 LG. |
| 5 | 1 | 1044882200 | HOSE, SILICONE, 1/2 X 3/4 X 22 LG. |
| 4 | 10 | 1044881800 | HOSE, SILICONE, 1/2 X 3/4 X 18 LG. |
| 3 | 1 | 105848 | HOSE CLAMP, NYLON, 3/4" OD HOSE |
| 2 | 2 | 1043792200 | HOSE, SILICONE, 1/4 X 1/2 X 22" LG. |
| 1 | 2 | 104383 | HOSE CLAMP, NYLON, 1/2" OD HOSE |
| 1 | - | 108407 | GENERATOR ASSEMBLY |

| ITEM | QTY. | PART NO. | DESCRIPTION |
|--|---------------------------------------|-------------|-------------|
| TOLERANCES (EXCEPT AS NOTED) | | | |
| CLEVELAND RANGE INC. | | | |
| 1333 East 179th St. Cleveland, Ohio 44110-2574 | | | |
| DECIMAL | SCALE | DRAWN BY | APPROVED BY |
| ± N/A | 1/32" | DUTCHMAN | MLT |
| ANGULAR | TITLE | | |
| ± N/A | HOSE DETAIL STEAMCRAFT ULTRA 5, G. | | |
| CK | DATE | DRAWING NO. | REV. |
| | 08-17-93 | C - 1063573 | C |

NOTES:
1. SEE WIRING DIAGRAM 104165 FOR WIRE CONNECTION POINTS.



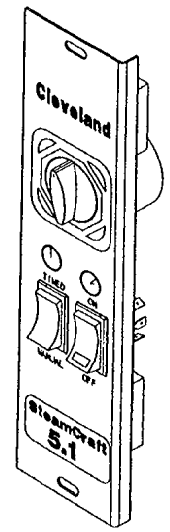
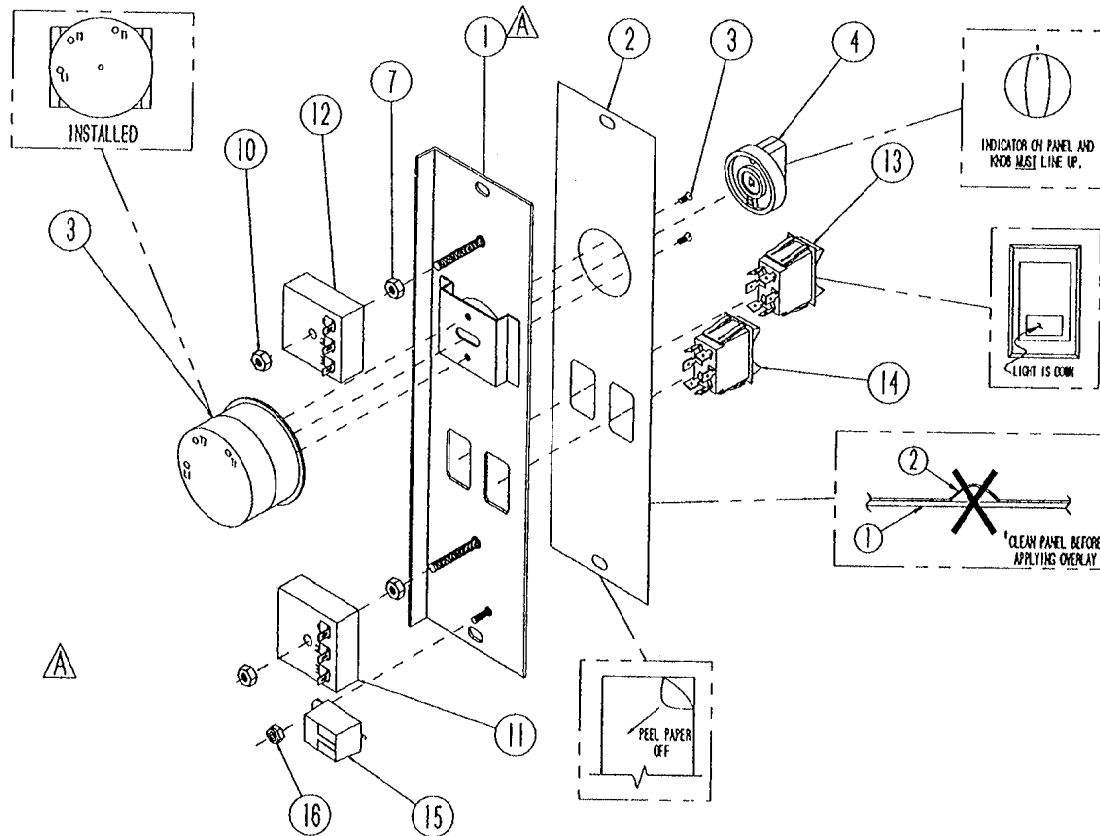
| LET. | REVISIONS | DATE | BY |
|------|---|---------|------|
| A | ITEM 12 WAS 20478, E.O. C-1781 | 9-18-90 | RIOS |
| B | ITEM 3 WAS 104054 ITEMS 7 & 8 WERE QTY. OF 4 PICTORIAL CHANGES TO ITEMS 2, 3 & 12 REMOVED RELAY ITEMS - 03524, 03525, 101655, 104223, 1041290200 - E.O. 1876 | 1-23-91 | PJD |
| C | ADDED TERMINALS TO 104390 ITEM #1 AND 104389 ITEM #12 ITEM 12 WAS 1040071 PANEL, TIMER AND ITEM 1 WAS 1040072 TRANSFORMER -E.O. 1784 R1 | 5-09-91 | PJD |

| ITEM NO. | PART NO. | DESCRIPTION |
|----------|----------|--|
| 13 | 1 | 104164 HARNESS, WIRING, ELECTRIC CONTROL (NOT SHOWN) |
| 12 | 1 | 104389 TIMER ASSEMBLY, NOX |
| 11 | 2 | 14892 NOX, HEX 10-24 ELASTIC LOCK |
| 10 | 1 | 20478 TIMER, SET TO STATE INTERVAL 3 MINUTE |
| 9 | 1 | 101875 NOX, HEX 1/4-20 ELASTIC LOCK |
| 8 | 2 | 104223 NOX, HEX 8-32 ELASTIC LOCK |
| 7 | 2 | 101855 BASED, FLAT 1/16 S/S |
| 6 | 1 | 14817 NOX, HEX 1/4-20-STEEL |
| 5 | 1 | 104224 SWITCH, ROCKER, SPST, WHITE COATING TIGASIT-65-AL-NAL ED. |
| 4 | 1 | 19993 SWITCH, ROCKER, DPST, ON/OFF, 6A, 125V |
| 3 | 1 | 104172 LABEL, CONTROL PANEL, ELECTRONIC SC 5.1 |
| 2 | 1 | 104157 PANEL |
| 1 | 1 | 104390 TRANSFORMER ASSEMBLY |

| REFERENCES (EXCEPT AS SHOWN) | | | |
|---|--|----------|-------------|
| CLEVELAND RANGE INC. 1333 East 111th St. Cleveland, Ohio 44110-2111 | | | |
| DESIGN | SCALE | DRAWN BY | APPROVED BY |
| 1 | N/A | R. RIOS | J.D. |
| ANALYSIS | TITLE | | |
| 1 | PANEL, CONTROL ASSEMBLY ELECTRONIC SC 5.1 | | |
| DATE | DRAWING NO. | REV. | |
| CK 9-11-90 | C- 104238 | 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.

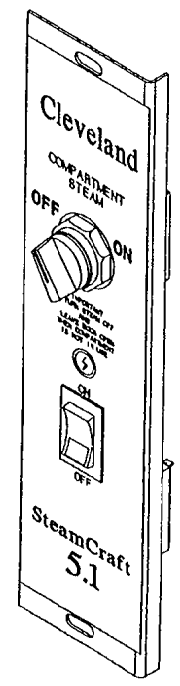
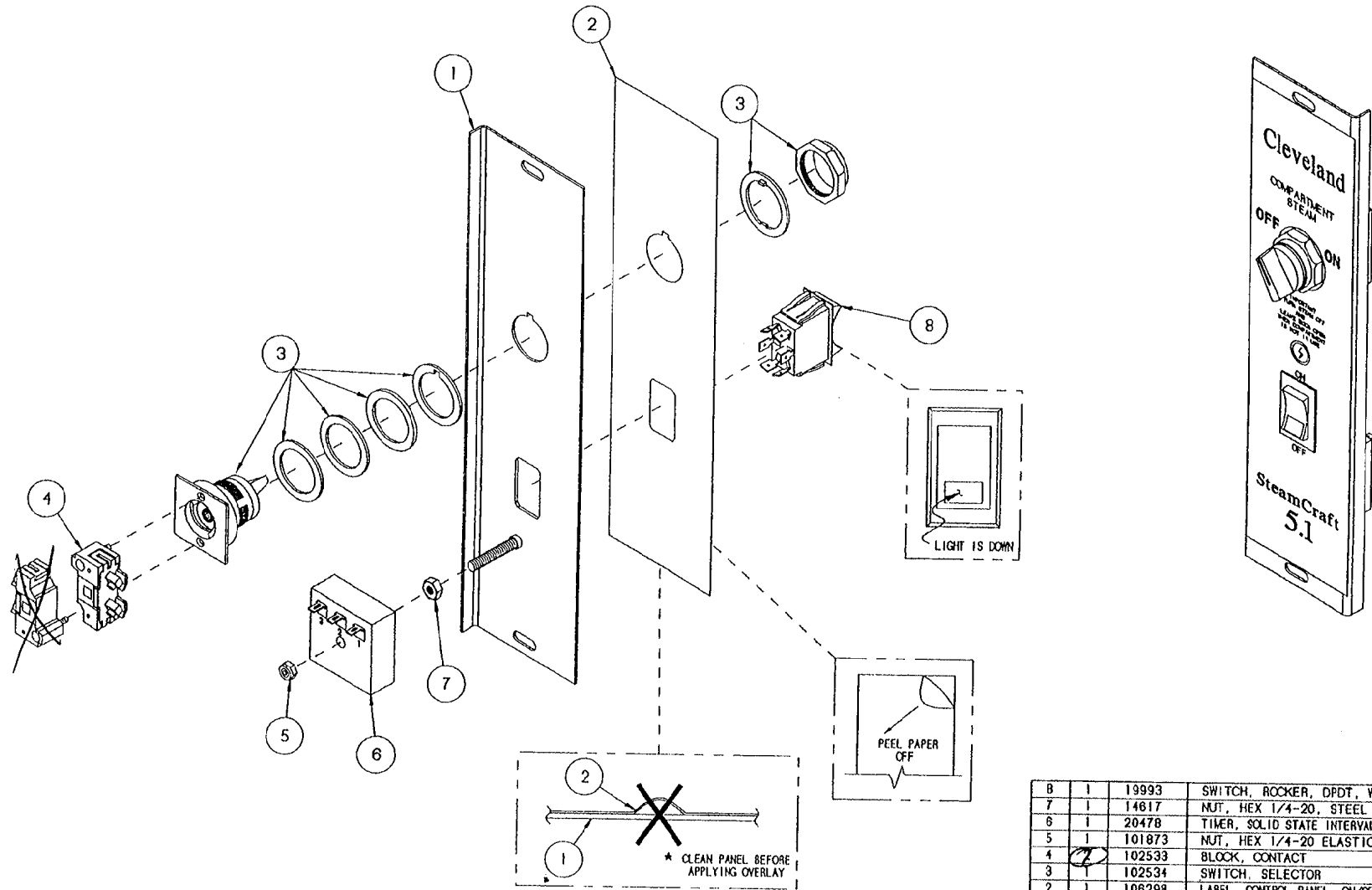
| LET. | REVISIONS | DATE | BY |
|------|--|----------|------|
| A | REMOVED ITEMS 5, 8, 8 & 9 REVISED ITEM 1 PICTORIAL E.O. 1876 R1 - COST REDUCTION | 27-06-91 | P.D. |
| B | SEE E.O. # C-1957 R 1 | 07-31-91 | P.D. |



| NO. | QTY. | PART NO. | DESCRIPTION |
|-----|------|----------|--------------------------------|
| 16 | 1 | 14672 | #10-32 LOCKING HEX. NUT |
| 15 | 1 | 41350 | BUZZER |
| 14 | 1 | 104224 | MANUAL SWITCH |
| 13 | 1 | 19993 | POWER SWITCH |
| 12 | 1 | 20478 | 3-MINUTE TIMER |
| 11 | 1 | 20477 | 3-SECOND TIMER |
| 10 | 2 | 101873 | NUT, 1/4-20 ELASTIC LOCK |
| 9 | | | |
| 8 | | | |
| 7 | 2 | 14617 | BLACK OXIDE 1/4-20 HEX NUT |
| 6 | | | |
| 5 | | | |
| 4 | 1 | 11307 | TIMER KNOB |
| 3 | 1 | 20478 | TIMER WITH MOUNTING SCREWS (2) |
| 2 | 1 | 103722 | LABEL, CONTROL PANEL, MANUAL |
| 1 | 1 | 104085 | CONTROL PANEL WITH STUDS |

| | | | | |
|----------------------------|--|---|----------------------|--|
| TOLERANCES UNLESS SHOWN | | CLEVELAND RANGE INC. 1333 East 175th St. Cleveland, Ohio 44110-2911 | | |
| DECIMAL 1 N/A | SCALE NONE | DRAWN BY R. RIOS | APPROVED BY J. B. | |
| MILLAR 1 N/A | TITLE CONTROL PANEL ASSEMBLY MANUAL STEAMCRAFT 5.1 | | | |
| DATE 07-9-90 | DRAWING NO. C-104191 | REV. B | | |

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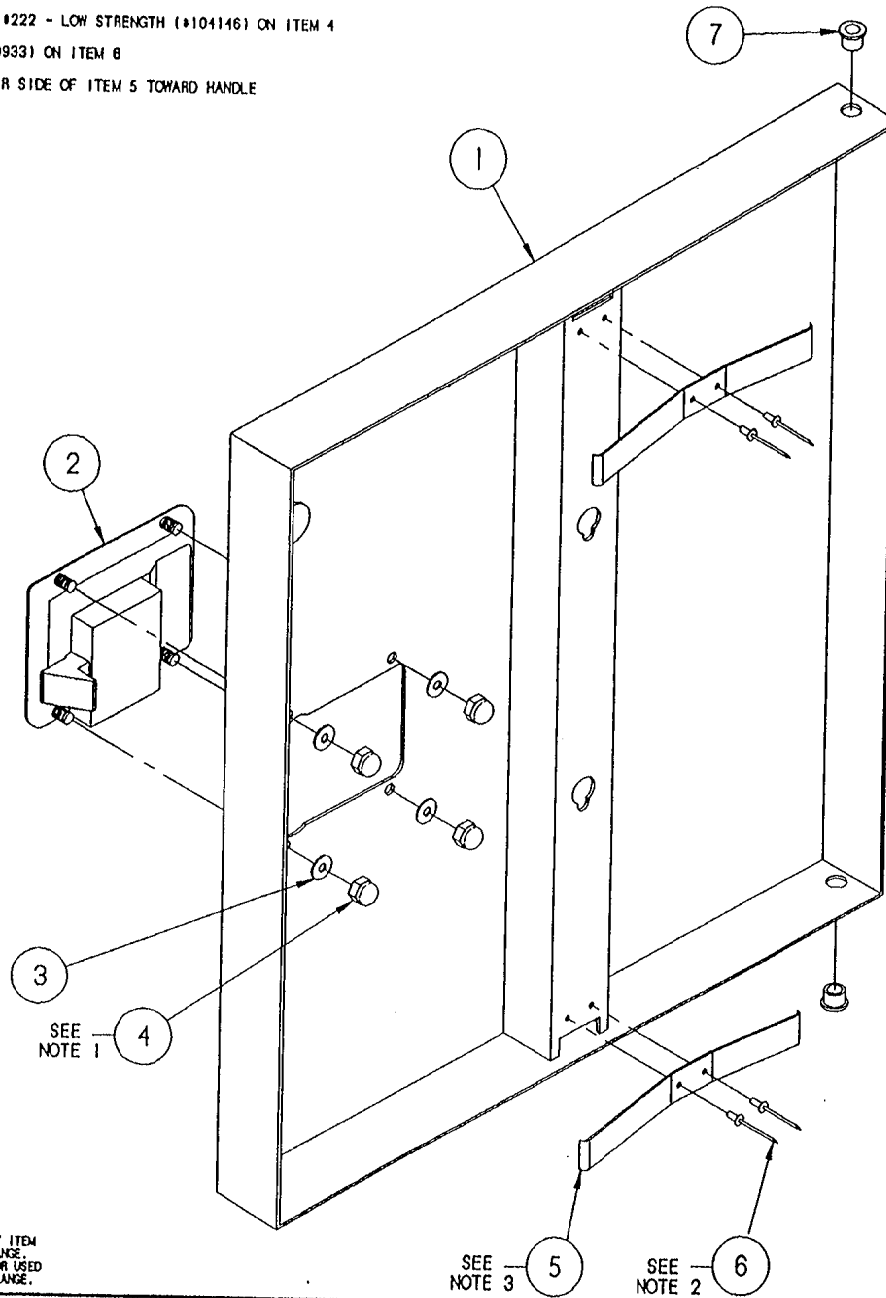


| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|----------|--|
| 8 | 1 | 19993 | SWITCH, ROCKER, DPDT, W/ RED LIGHT |
| 7 | 1 | 14617 | NUT, HEX 1/4-20, STEEL |
| 6 | 1 | 20478 | TIMER, SOLID STATE INTERVAL 3 MINUTE |
| 5 | 1 | 101873 | NUT, HEX 1/4-20 ELASTIC LOCK |
| 4 | 1 | 102533 | BLOCK, CONTACT |
| 3 | 1 | 102534 | SWITCH, SELECTOR |
| 2 | 1 | 106298 | LABEL, CONTROL PANEL, ON/OFF, SC 5.1 |
| 1 | 1 | 106303 | PANEL WELDMENT, ON/OFF CONTROL, SC 3.1/5.1 |

| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | |
|---------------------------------|---|--|-------------|
| DECIMAL ± .030 | SCALE 5/8"=1" | DRAWN BY DUTCHMAN | APPROVED BY |
| ANGULAR ± 1° | TITLE PANEL ASSY, ON/OFF CONTROL STEAMCRAFT 5.1 | | |
| CK | DATE 01-15-93 | DRAWING NO. C - 106305 | REV. - |

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



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

SEE NOTE 2

| LET. | REVISIONS | DATE | BY |
|------|--|----------|-----|
| A | P/Ns 105901 & 104987 ADDED, PICTORIAL CHANGE, REDRAWN CADKEY PER E.O. #C-2441 R2 | 08-30-93 | PJD |
| B | P/Ns 105901 & 104987 REF. ONLY PER E.O. #C-2441 R3 | 08-05-93 | PJD |
| C | P/Ns 105901 & 104987 REMOVED PER E.O. #C-2441 R5 | 12-13-93 | PJD |

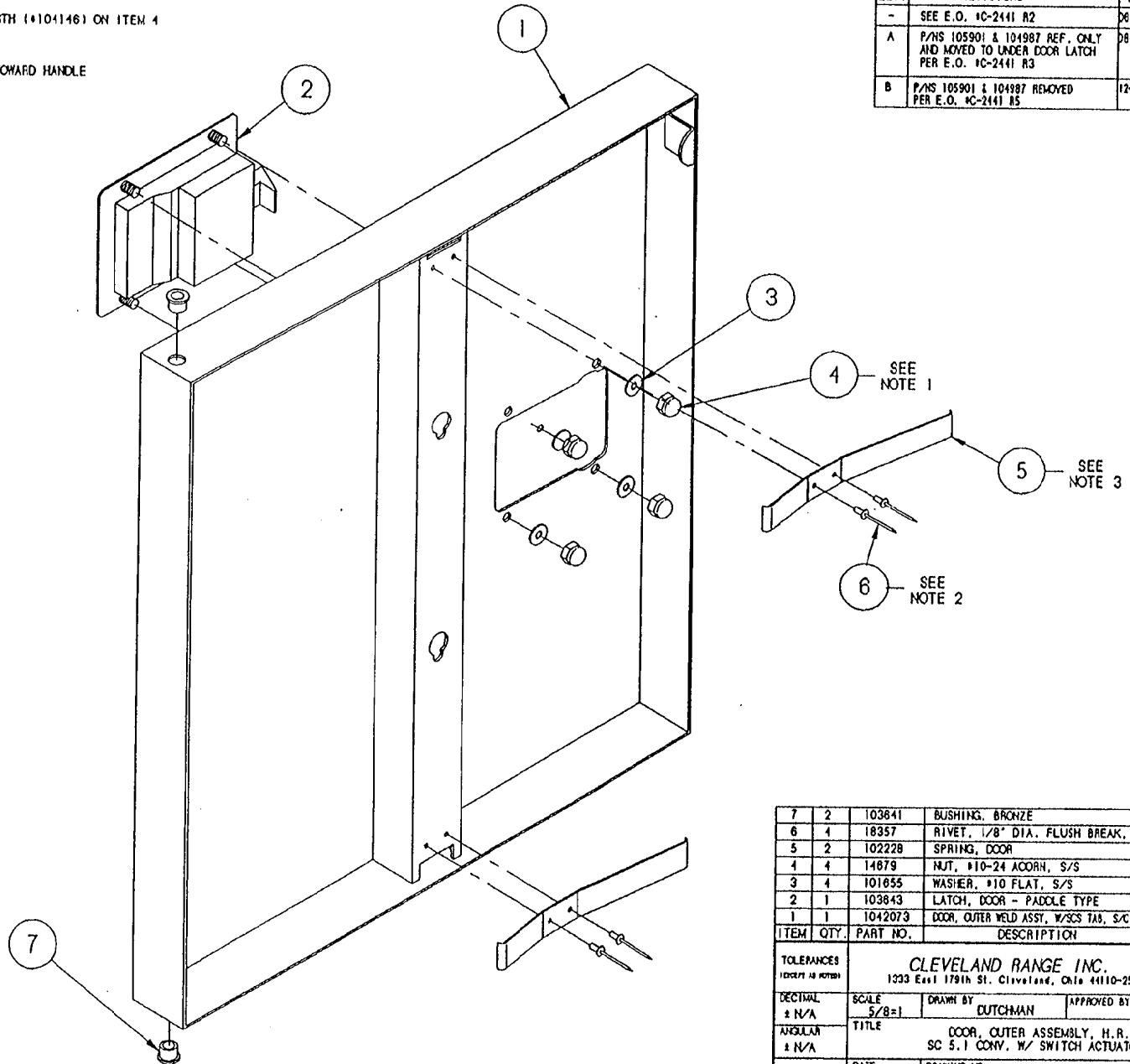
| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|----------|--|
| 7 | 2 | 103841 | BUSHING, BRONZE |
| 6 | 4 | 18357 | RIVET, 1/8" DIA. FLUSH BREAK, S/S |
| 5 | 2 | 102228 | SPRING, DOOR |
| 4 | 4 | 14879 | NUT, #10-24 ACORN, S/S |
| 3 | 4 | 101855 | WASHER, #10 FLAT, S/S |
| 2 | 1 | 103843 | LATCH, DOOR - PADDLE TYPE |
| 1 | 1 | 1042072 | DOOR, OUTER WELD ASSY, W/SCS TAB, S/C S.I., H.L. |

| | | | |
|------------------------------|---|--|-------------|
| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 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 S.I. CONV. W/ SWITCH ACTUATOR | | |
| CK | DATE 02-04-93 | DRAWING NO. C - 1042062 | REV. C |

NOTES:

- 1.) USE LOCKTITE #222 - LOW STRENGTH (#101146) ON ITEM 4
- 2.) USE RTV (100933) ON ITEM 6
- 3.) ORIENT LONGER SIDE OF ITEM 5 TOWARD HANDLE

| LET. | REVISIONS | DATE | BY |
|------|--|----------|-----|
| - | SEE E.O. 10-2411 R2 | 08-28-93 | PJD |
| A | P/HS 105901 & 104987 REF. ONLY AND MOVED TO UNDER DOOR LATCH PER E.O. 10-2411 R3 | 08-05-93 | PJD |
| B | P/HS 105901 & 104987 REMOVED PER E.O. 10-2411 R5 | 12-13-93 | PJD |

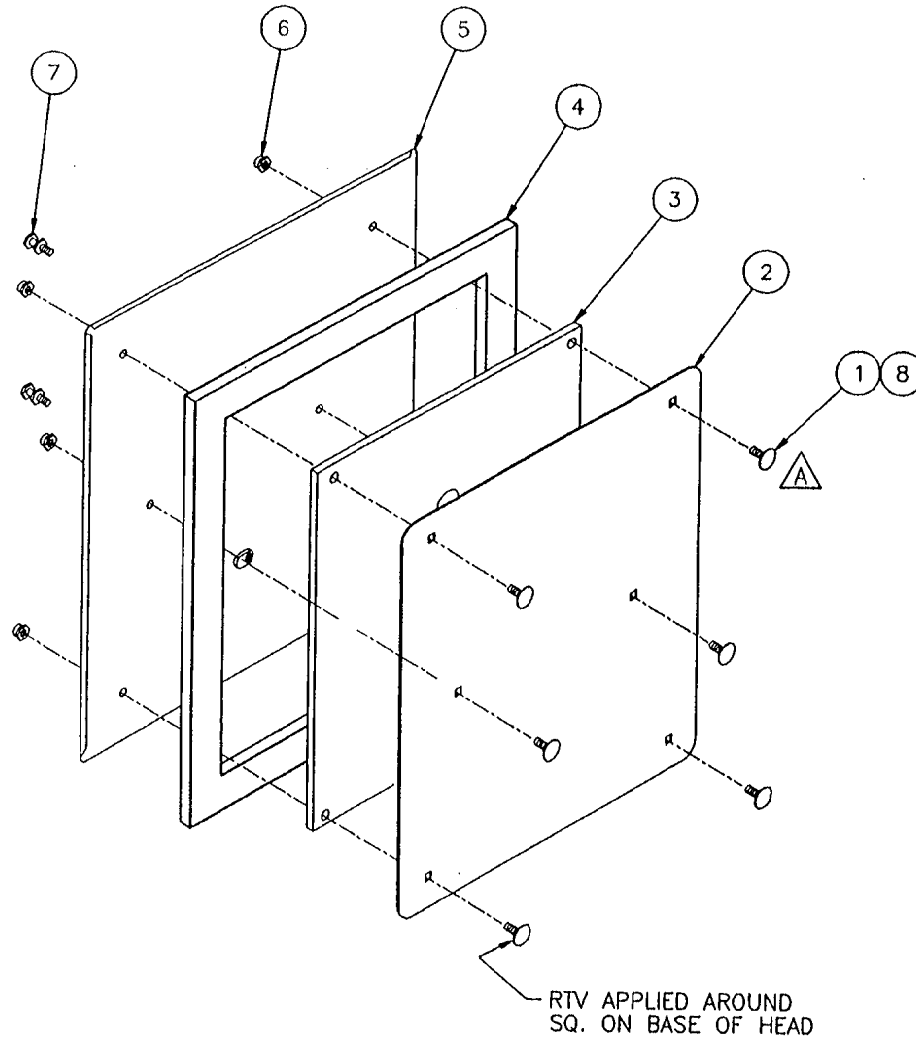


| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|----------|--|
| 7 | 2 | 103841 | BUSHING, BRONZE |
| 6 | 4 | 18357 | RIVET, 1/8" DIA. FLUSH BREAK, S/S |
| 5 | 2 | 102228 | SPRING, DOOR |
| 4 | 4 | 14679 | NUT, #10-24 ACORN, S/S |
| 3 | 4 | 101855 | WASHER, #10 FLAT, S/S |
| 2 | 1 | 103843 | LATCH, DOOR - PADDOLE TYPE |
| 1 | 1 | 1042073 | DOOR, OUTER WELD ASSY, W/SCS TAB, S/C S.I., H.R. |

| | | | |
|---|--|--|-------------|
| TOLERANCES <small>(UNLESS OTHERWISE SPECIFIED)</small> | | CLEVELAND RANGE INC. 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 S.I CONV. W/ SWITCH ACTUATOR | | |
| CK | DATE 08-30-93 | DRAWING NO. C - 1042063 | REV. B |

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| 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" |

A

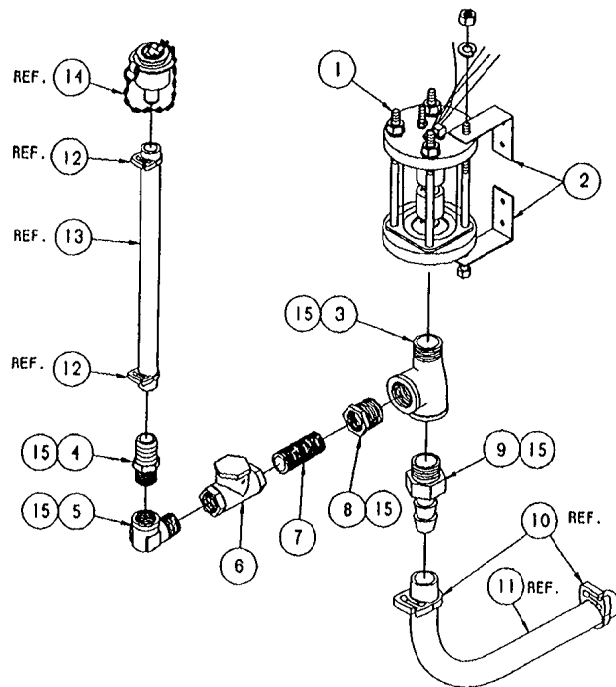
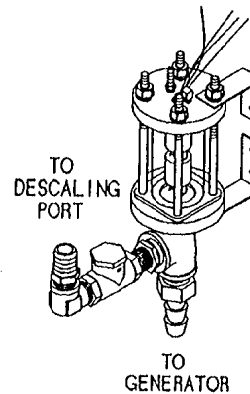
| | | | |
|---------------------------------|--|---|-------------|
| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | |
| DECIMAL ± .005 | SCALE NONE | DRAWN BY JPB | APPROVED BY |
| ANGULAR ± 1' | TITLE DOOR, INNER ASSY. STEAMCRAFT 5.1 | | |
| AC | DATE 6/25/91 | DRAWING NO. B- 104202 | REV A |

THIS DESIGN 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) SEE DRAWING 1063573 FOR HOSE LOCATIONS.
- 2) ITEMS MARKED "REF" ARE INCLUDED IN THIS BILL OF MATERIALS FOR REFERENCE ONLY. THE "ASSEMBLED UNIT" DRAWING DEPICTS THE ACTUAL REQUIRED PARTS FOR THIS ASSEMBLY.

ASSEMBLED UNIT



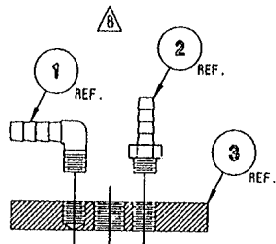
THIS DESIGN DESCRIBES A PROPRIETARY ITEM AND IS THE PROPERTY OF CLEVELAND RANGE. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF CLEVELAND RANGE.

| LET. | REVISIONS | DATE | BY |
|------|------------------|----------|-----|
| A | SEE E.O. 10-2631 | 08-02-94 | PJD |

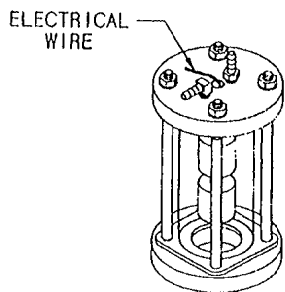
SEE NOTE 2

| | | | |
|----|-----|------------|---|
| 15 | A/R | 00934 | SEALANT, RECTORSEAL |
| 14 | 1 | 108428 | PORT ASSEMBLY, DESCALER |
| 13 | 1 | 1058450900 | HOSE, NORPRENE, 1/2 ID X 3/4 OD X 9' LG |
| 12 | 1 | 105848 | CLAMP, PLASTIC, 3/4" OD HOSE |
| 11 | 1 | 1060931400 | HOSE, SILICONE, 3/4 ID X 1 OD X 14' LG. |
| 10 | 2 | 105847 | CLAMP, PLASTIC, 1-1/8" HOSE |
| 9 | 1 | 06240 | FITTING, 3/4 H X 3/4 MPT |
| 8 | 1 | 02565 | REDUCER, 3/4 X 1/2, BRASS |
| 7 | 1 | 14324 | NIPPLE, CLOSE 1/2", BRASS |
| 6 | 1 | 108158 | CHECK VALVE, 1/2" SWING W/ RUBBER SEAT |
| 5 | 1 | 05253 | ELBOW, STREET, 90° X 1/2, BRASS |
| 4 | 1 | 08237 | FITTING, 1/2 H X 1/2 MPT, BRASS |
| 3 | 1 | 20249 | TEE, 3/4" MALE RUN, BRASS |
| 2 | 2 | 106676 | BRACKET, TOP/BOT. FLOAT SUPPORT |
| 1 | 1 | 105877 | FLOAT, ASSEMBLY, STEAMCRAFT |

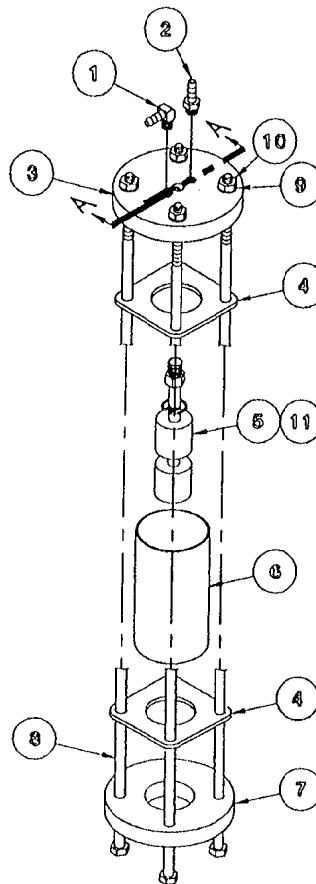
| ITEM | QTY. | PART NO. | DESCRIPTION |
|--|--|-------------|-------------|
| TOLERANCES (EXCEPT AS NOTED) | | | |
| CLEVELAND RANGE INC. | | | |
| 1333 East 179th St. Cleveland, Ohio 44110-2574 | | | |
| DECIMAL | SCALE | DRAWN BY | APPROVED BY |
| ± .030 | 1/4" | DUTCHMAN | |
| ANGULAR | TITLE | | |
| ± 1° | FLOAT AND DESCALER ASSEMBLY STEAMCRAFT 5.1, GAS | | |
| CK | DATE | DRAWING NO. | REV. |
| | 05-12-93 | B - 106521 | A |



DETAIL A-A
SCALE: 1/2=1



ASSEMBLED VIEW
SCALE: 1/4=1



EXPLODED ASSEMBLY
SCALE: 1/4=1

REFERENCE:
260AHM 5 OF 5

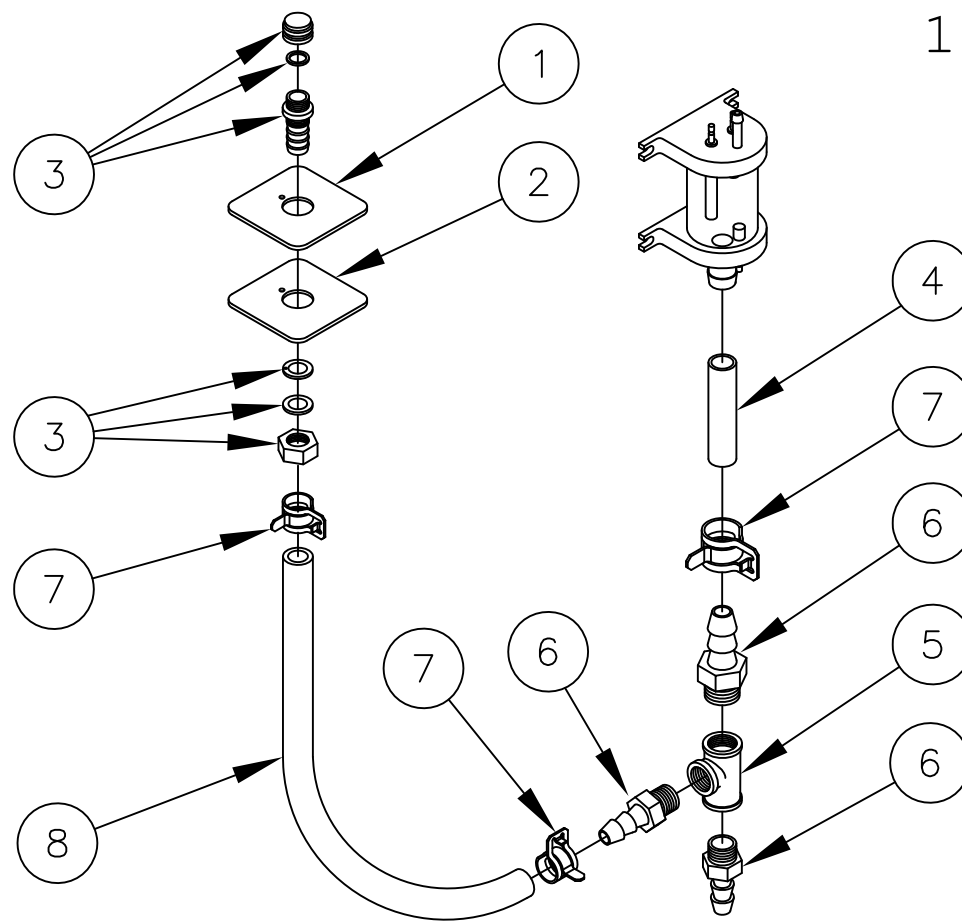
| LET. | REVISIONS | DATE | BY |
|------|--|----------|----|
| A | CORRECTED P/N 105787 | 7-30-92 | SM |
| B | ROTATED 90° P/NS 105787 & 104380 PER EO #C-2304 | 10-10-92 | PD |
| C | THIS ASSEMBLY REPLACES P/N 104091 ON SC 3.1, 5.1 ELECT. & SC 10 ELECT. PER EO #C-2277 R3 | 02-02-93 | PD |

| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|------------|---|
| 11 | A/R | 00934 | SEALANT, RECTORSEAL |
| 10 | 4 | 14618 | NUT, HEX HEAD, 1/4-20, S/S |
| 9 | 4 | 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 |
| 6 | 1 | 1040190388 | TUBE, POLYSULFONE, 2 x .125 x 3.875 |
| 5 | 1 | 103726 | SWITCH ASSEMBLY, FLOAT |
| 4 | 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 | FITTINGS, HOSE BARB, 90°, 1/4 H x 1/8 MPT |

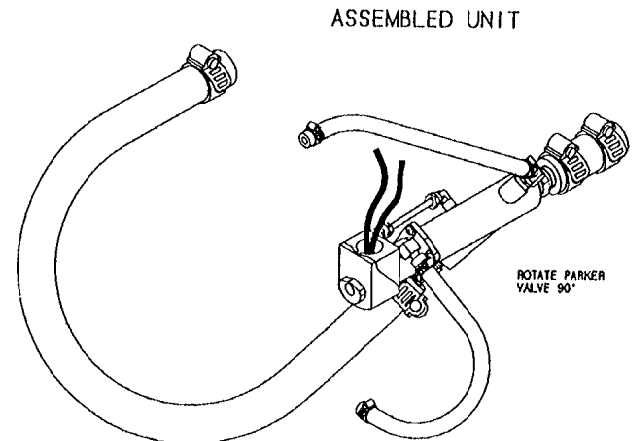
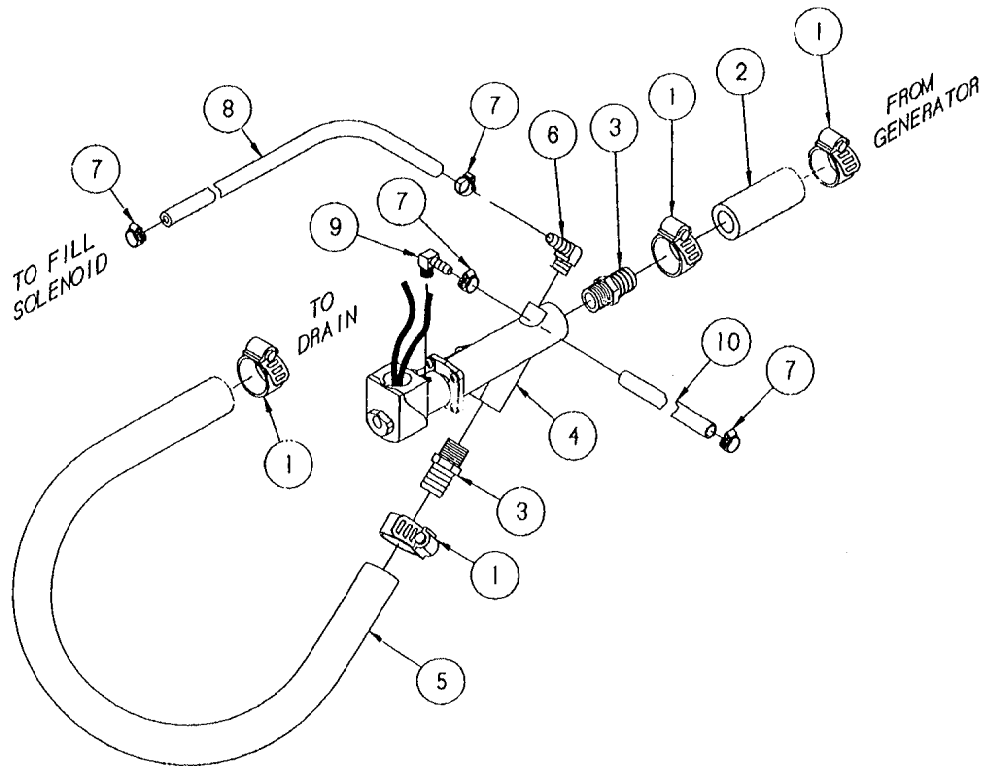
| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | |
|---------------------------------|---|--|-------------|
| DECIMAL ± N/A | SCALE AS SHOWN | DRAWN BY S. MILEWSKI | APPROVED BY |
| ANGULAR ± N/A | TITLE △ FLOAT ASSEMBLY, STEAMCRAFT 10 ELECTRIC, 3.1 AND 5.1 | | |
| CK | DATE 05-28-92 | DRAWING NO. B - 105877 | 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.

108727



| | | | |
|---|---|-----------|--|
| 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 |



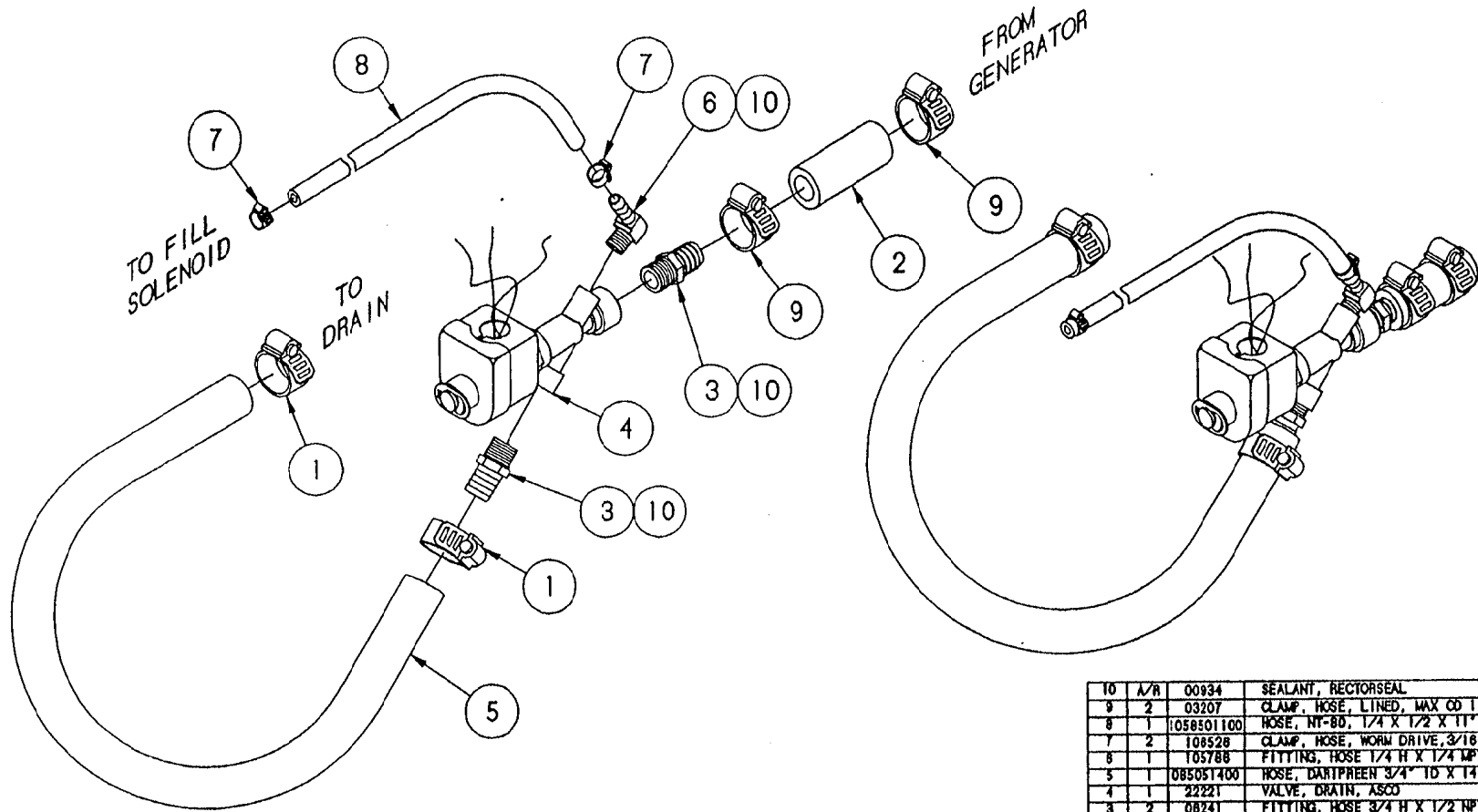
| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|------------|------------------------------------|
| 10 | 1 | 1058500600 | HOSE, NT-80, 1/4 X 1/2 X 6' LG. |
| 9 | 1 | 105787 | FITTING, HOSE 1/4 H X 1/8 NPT, 90° |
| 8 | 1 | 1058500900 | HOSE, NT-80, 1/4 X 1/2 X 9' LG. |
| 7 | 4 | 03207 | CLAMP, METAL, WORM DRIVE |
| 6 | 1 | 105786 | FITTING, HOSE 1/4 H X 1/4 NPT, 90° |
| 5 | 1 | 085051400 | HOSE, DARTPREEN 3/4" ID X 14" LG. |
| 4 | 1 | 22244 | VALVE, DRAIN, PARKER |
| 3 | 2 | 06240 | FITTING, HOSE 3/4 H X 3/4 NPT, STR |
| 2 | 1 | 085050300 | HOSE, DARTPREEN 3/4" ID X 3' LG. |
| 1 | 4 | 03207 | CLAMP, METAL, WORM DRIVE |

| | | | |
|--|---|---------------------------|-------------|
| 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 VALVE ASSEMBLY, DRAIN STEAMCRAFT 5.1, GAS | | |
| CK | DATE 05-12-93 | DRAWING NO. C - 106524 | 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 NOTE FOR ASSEMBLY. | 04/13/99 | NT |

NOTE: 1) Rotate solenoid valve 45° clockwise for left hinging units. Rotate solenoid valve 45° counter-clockwise for right hinging units.



| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|------------|------------------------------------|
| 10 | A/R | 00934 | SEALANT, RECTORSAL |
| 9 | 2 | 03207 | CLAMP, HOSE, LINED, MAX OD 1.125" |
| 8 | 1 | 1058501100 | HOSE, NI-80, 1/4 X 1/2 X 11" LG. |
| 7 | 2 | 108528 | CLAMP, HOSE, WORM DRIVE, 3/16-3/16 |
| 6 | 1 | 105788 | FITTING, HOSE 1/4 H X 1/4 MPY, 90° |
| 5 | 1 | 085051400 | HOSE, DARTPREEN 3/4" ID X 14" LG. |
| 4 | 1 | 22221 | VALVE, DRAIN, ASCO |
| 3 | 2 | 08241 | FITTING, HOSE 3/4 H X 1/2 NPT, 8TH |
| 2 | 1 | 085110300 | HOSE, SILBRAD, 3/4" ID X 3" LG. |
| 1 | 2 | 03204 | CLAMP, HOSE, WORM DRIVE, 3/4" |

TOLERANCES
(UNLESS OTHERWISE SPECIFIED)

CLEVELAND RANGE INC.
1233 East 179th St., Cleveland, Ohio 44110-2574

DECIMAL ± N/A SCALE 1/2" ± 1" DRAWN BY DUTCHMAN APPROVED BY

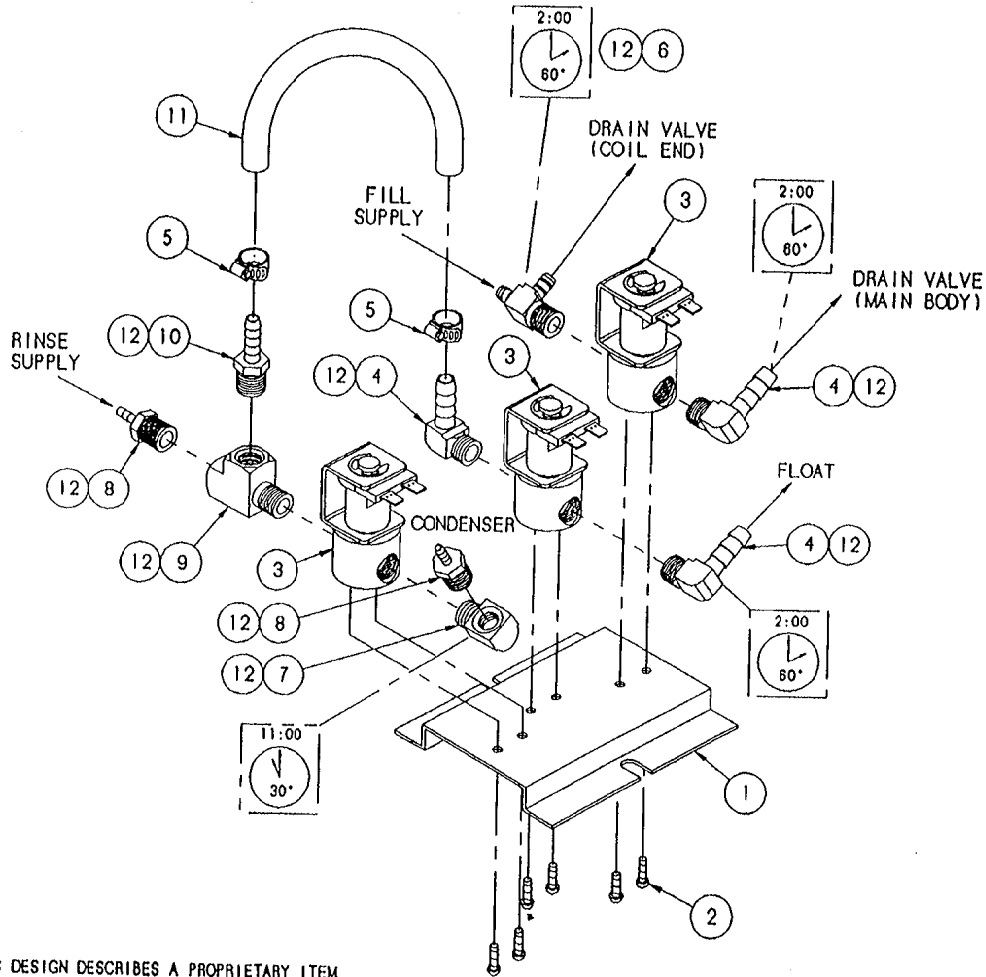
ANGULAR ± N/A TITLE VALVE ASSEMBLY, DRAIN STEAMCRAFT 3.1 AND 5.1

CK DATE 02-12-93 DRAWING NO. C - 106384 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.

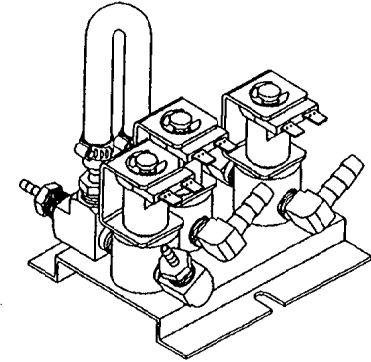
NOTE:

1. USE THREAD JOINT COMPOUND AS REQUIRED TO SEAL.



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.

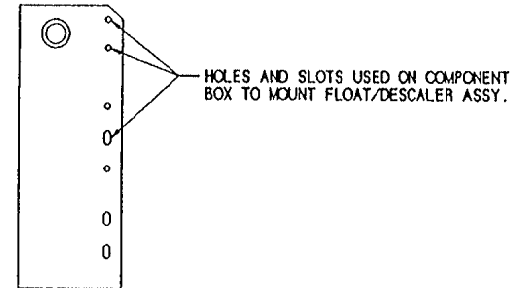
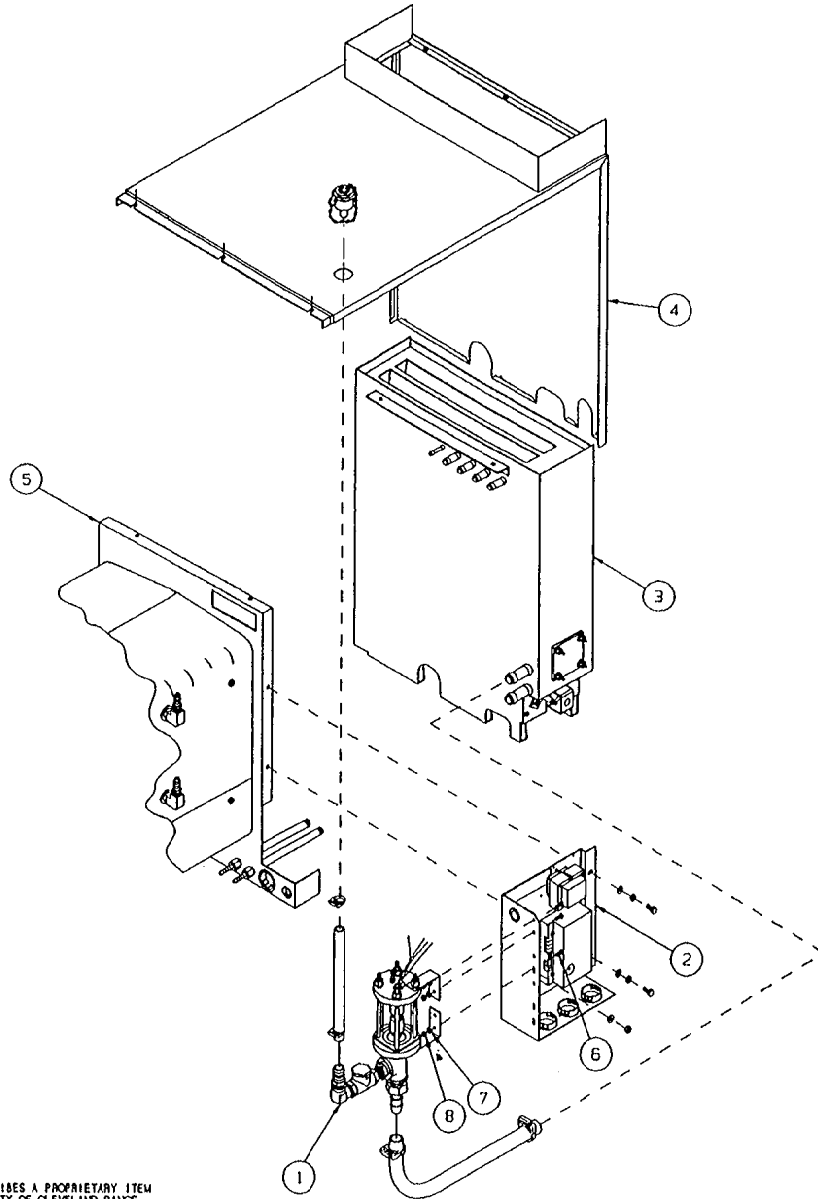
| LET. | REVISIONS | DATE | BY |
|------|---|----------|-----|
| A | 106522 REPLACED 104087, 106526 REPLACED 106219, ADDED NEW PARTS & NEW TUBING LAYOUT PER E.O. #C-2492 | 08-23-93 | PJD |



SEE NOTE 1

| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|--------------|--|
| | | 12 A/R 00934 | SEALANT, RECTORSEAL |
| ▲ | 11 | 1 | 1058500600 TUBING, NT-80, 1/4" X 6" |
| | 10 | 1 | 104381 FITTING, HOSE, 1/4 H X 1/4 MPT, STR. |
| ▲ | 9 | 1 | 106663 FITTING, MALE RUN, 1/4 MPT X 1/4 FPT |
| ▲ | 8 | 2 | 106661 FITTING, HOSE, 1/8 H X 1/4 MPT, STR. |
| ▲ | 7 | 1 | 05235 ELBOW, STREET 1/4 X 90°, BRASS |
| | 6 | 1 | 106588 FITTING, TEE, 1/4 H X 1/4 MPT X 1/4 H |
| ▲ | 5 | 2 | 106526 CLAMP, HOSE, 3/8 X 5/8 X 5/16 W |
| | 4 | 3 | 105786 FITTING, HOSE, 1/4 H X 1/4 MPT, 90° |
| | 3 | 3 | 22218 SOLENOID VALVE |
| | 2 | 6 | 101872 SCREW, #8-32 X 1/4 THD. CUT |
| | 1 | 1 | 104284 BRACKET, MOUNTING |

| | | | |
|------------------------------|--|--|-------------|
| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | |
| DECIMAL ± N/A | SCALE 1/2" = 1" | DRAWN BY ARB | APPROVED BY |
| ANGULAR ± 1° | TITLE VALVE ASSY, WATER INLET SC 3.1 & 5.1, H.L. | | |
| CK | DATE 08-24-93 | DRAWING NO. B - 106522 | REV. A |

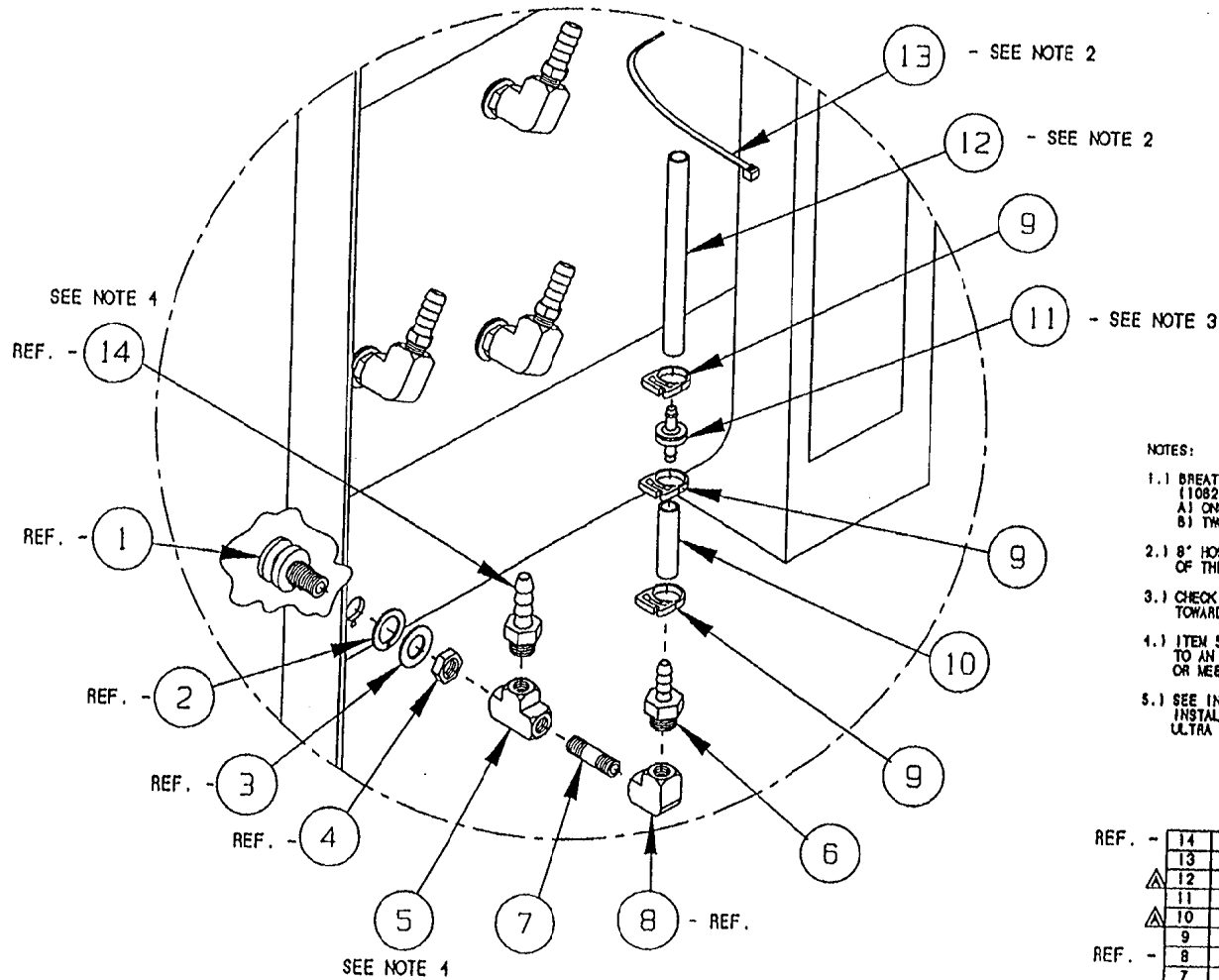


| 8 | 3 | 14892 | NUT, HEX LOCK ELASTIC 10-24 |
|------|-----|----------|----------------------------------|
| 7 | 3 | 101655 | WASHER, FLAT #10, S/S |
| 6 | 3 | 19287 | SCREW, PAN HEAD 10-24 X 1/2, S/S |
| 5 | - | 1041971 | CAVITY, WELD ASSY., H.L. |
| 4 | - | 106338 | SHEETING, TOP/BACK |
| 3 | - | 106407 | GENERATOR ASSY. |
| 2 | 1 | 106523 | COMPONENT PANEL ASSY. |
| 1 | 1 | 106521 | FLOAT AND DESCALER ASSY. |
| ITEM | QTY | PART NO. | DESCRIPTION |

| | | | |
|---------------------------------|--|--|-------------|
| TOLERANCES (UNLESS AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St., Cleveland, Ohio 44110-2574 | |
| DECIMAL ± N/A | SCALE 3/16=1 | DRAWN BY DUTCHMAN | APPROVED BY |
| ANGULAR ± N/A | TITLE INSTALLATION OF FLOAT/DESCALER TO COMPONENT BOX ON ULTRA 5 GAS | | |
| CK | DATE 07-14-94 | DRAWING NO. C - 260AKY | 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 | SEE E.O. KC-2732 | 12-16-94 | PJD |



NOTES:

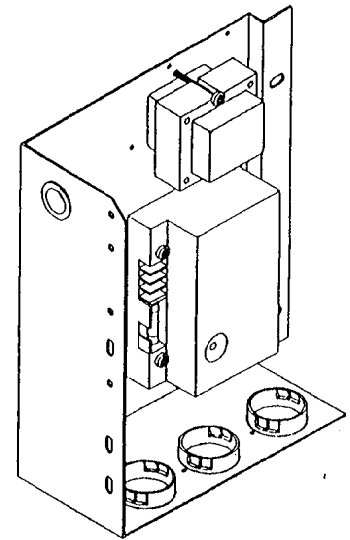
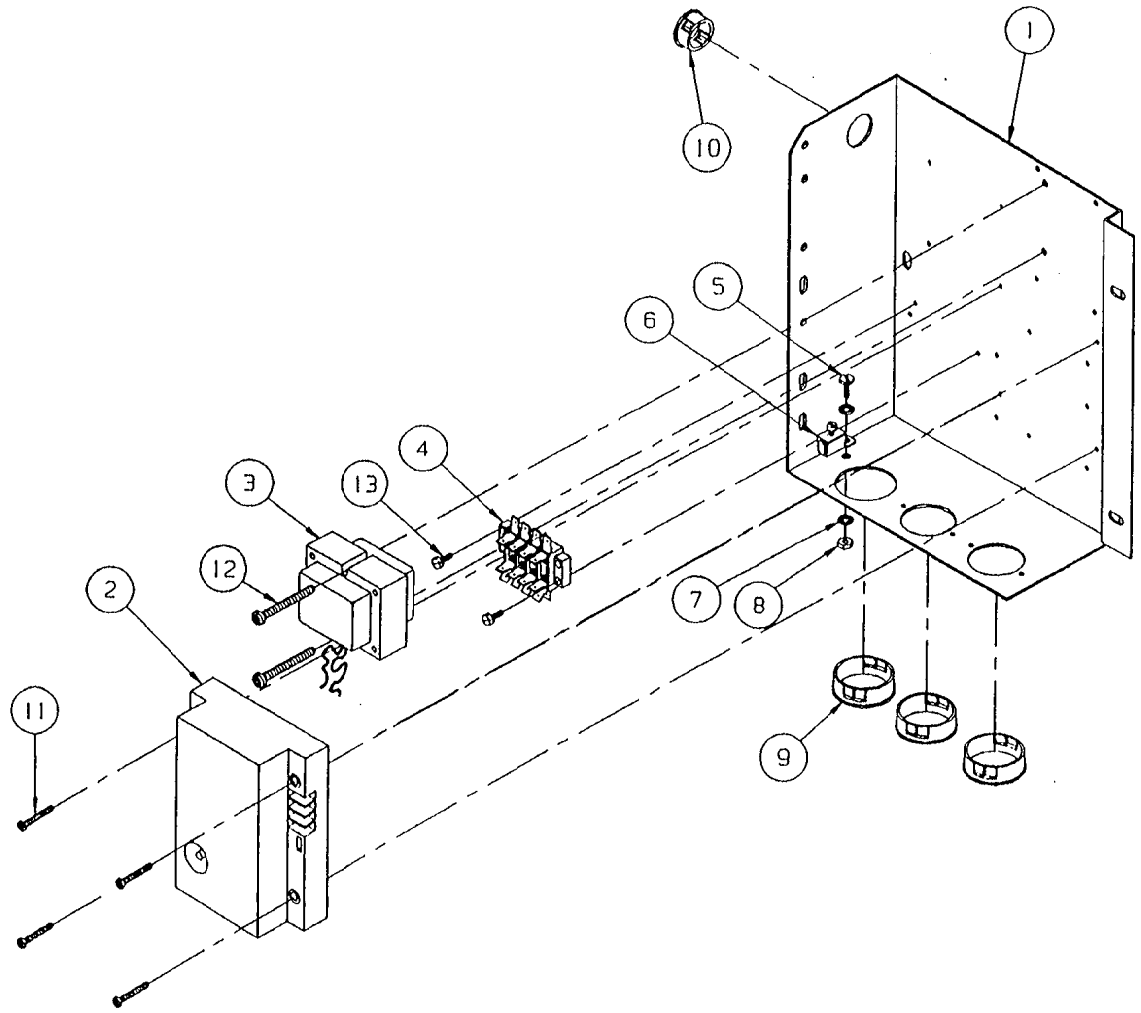
- 1.1 BREATHER ASSY. (1070591) TO REPLACE ONE SPRAY NOZZLE ASSY. (1082301) ONE PLACE PER CAVITY ON ALL STEAMCRAFT ULTRA UNITS
A) ONE COMPARTMENT UNITS = ONE BREATHER ASSY.
B) TWO COMPARTMENT UNITS = TWO BREATHER ASSY.
- 2.1 8' HOSE IS TO BE SECURED WITH NYLON CABLE TO THE HOSE OF THE SPRAY NOZZLE ASSY. DIRECTLY ABOVE THE NEW ASSY.
- 3.1 CHECK VALVE - SIDE WHICH READS "VAC" MUST FACE DOWN TOWARD HOSE BARB
- 4.1 ITEM 5 (P/N 20199) AND ITEM 6 (P/N 104048) TO BE ROTATED TO AN ANGLE THAT WILL MATCH THE OTHER SPRAY NOZZLES OR MEET A MATING HOSE FITTING
- 5.1 SEE INSTRUCTIONAL DRAWINGS 280ALB1-280ALB7 FOR INSTALLATION OF THIS ASSEMBLY INTO THE STEAMCRAFT ULTRA UNITS.

| REF. | QTY. | PART NO. | DESCRIPTION |
|--------|------|------------|------------------------------------|
| REF. - | 14 | 104048 | FITTING, 1/2 HOSE X 1/4 MPT |
| | 13 | 20451 | TIE, NYLON CABLE |
| △ | 12 | 1043790500 | HOSE, SILICONE 1/4 ID X 1/2 OD X 5 |
| | 11 | 107032 | CHECK VALVE, PLASTIC DIAPHRAGM |
| △ | 10 | 1043790300 | HOSE, SILICONE 1/4 ID X 1/2 OD X 3 |
| | 9 | 104383 | CLAMP, HOSE, NYLON |
| REF. - | 8 | 05236 | ELBOW, 1/4 X 90°, BRASS |
| | 7 | 14411 | NIPPLE, 1/4 X 1.5", BRASS |
| | 6 | 104381 | FITTING, 1/4 HOSE X 1/4 MPT |
| | 5 | 20199 | TEE, 1/4 BRASS |
| | 4 | 104081 | NUT, HEX JAM 5/8-18 BRASS |
| REF. - | 3 | 104232 | WASHER, FLAT S/S |
| | 2 | 104082 | GASKET, STEAM INJECTOR |
| | 1 | 104009 | FITTING ASSY., STEAM SUPPLY |
| | ITEM | QTY. | PART NO. |
| | | | DESCRIPTION |

| | | | |
|---|--|----------------------------|-------------|
| TOLERANCES <small>(UNLESS AS NOTED)</small> | | | |
| CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | | | |
| DECIMAL ± N/A | SCALE 3/16±1 | DRAWN BY DUTCHMAN | APPROVED BY |
| ANGULAR ± N/A | TITLE BREATHER/SPRAY NOZZLE ASSY. (1/2' HOSE) STEAMCRAFT ULTRA 3, 5 & 10 | | |
| CK | DATE 09-15-94 | DRAWING NO. C - 1070591 | 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.

| REV. | REVISIONS | DATE | BY |
|------|---|----------|-----|
| A | 103936 WAS P103936, 106128 & 106127 WERE #10 SCREWS, ADDED 15010 & 18358 PER ED #C-2502 | 09-14-93 | PJD |
| B | P/N 106754 WAS 106127, REMOVED S/N TAG PER ED #C2548 | 01/14/13 | DFA |



ASSEMBLED UNIT

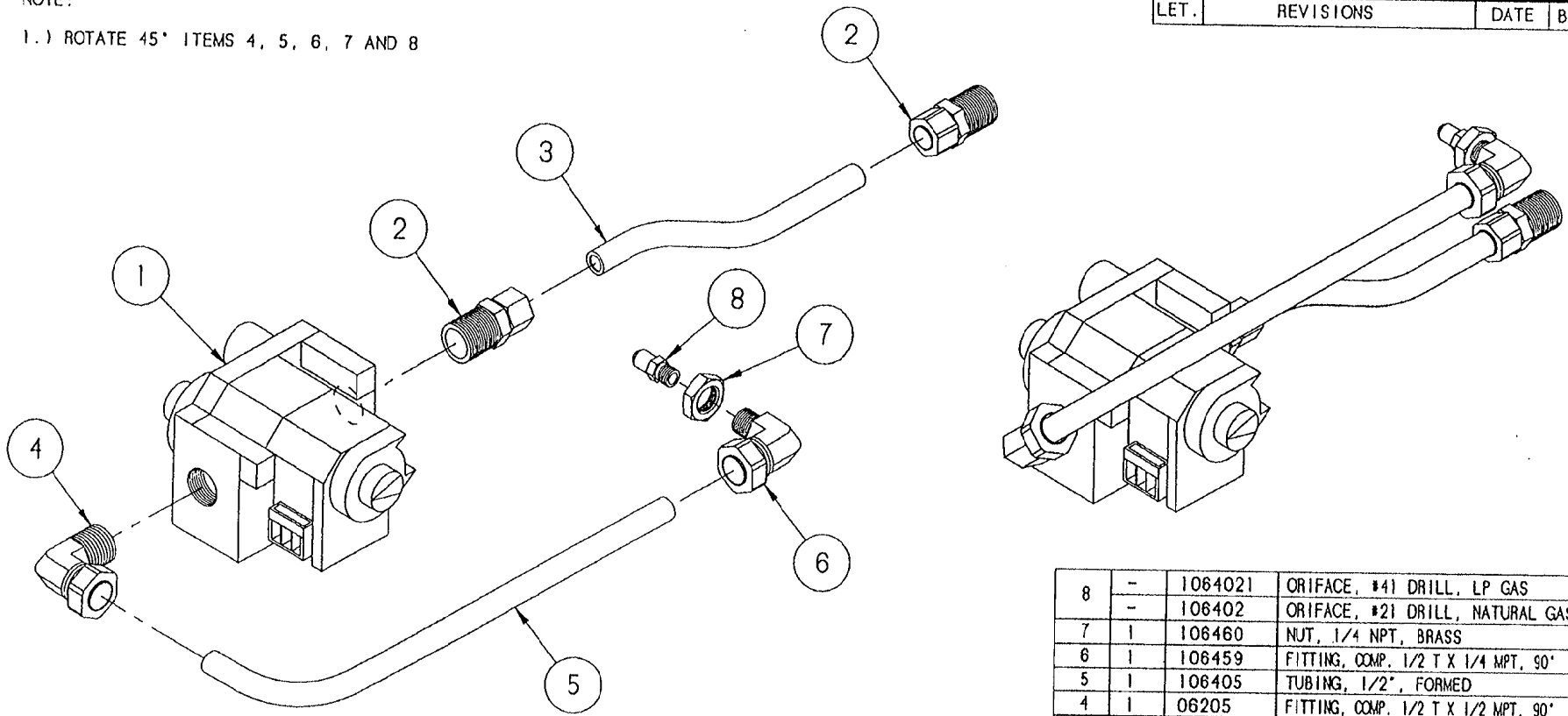
| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|----------|-------------------------------------|
| 1 | 1 | 103936 | PANEL, COMPONENT WELD ASSY. |
| 2 | 1 | 03546 | SPARK IGNITION CONTROL MODULE |
| 3 | 1 | 20528 | TRANSFORMER, 24 VOLT |
| 4 | 1 | 44164 | TERMINAL BLOCK, 4 POLE |
| 5 | 1 | 101231 | SCREW, 10-24 X 1/2 TRUSS HEAD |
| 6 | 1 | 20304 | GROUND LUG, BURNOY #KPABC |
| 7 | 1 | 23114 | WASHER, INTERNAL TOOTH #10 S/S |
| 8 | 1 | 14659 | NUT, HEX 10-24 S/S |
| 9 | 3 | 102591 | BUSHING, INSULATOR |
| 10 | 1 | 02600 | BUSHING, INSULATOR, HEYCO SB-875-11 |
| 11 | 4 | 106128 | SCREW, TORX SLOT #6 X 1.000 |
| 12 | 2 | 106125 | SCREW, TORX SLOT #10 X 1.750 |
| 13 | 2 | 106754 | SCREW, HEX/WASHER HEAD #6 X 3/8" |

| | | | |
|---|--|---------------------------|-------------|
| TOLERANCES <small>(EXCEPT AS NOTED)</small> | | | |
| CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | | | |
| DECIMAL ± N/A | SCALE 1/2=1 | DRAWN BY DUTCHMAN | APPROVED BY |
| ANGULAR ± N/A | TITLE COMPONENT, PANEL, H.L. STEAMCRAFT 5.1, GAS | | |
| CK | DATE 05-12-93 | DRAWING NO. C - 106523 | REV. B |

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.) ROTATE 45° ITEMS 4, 5, 6, 7 AND 8



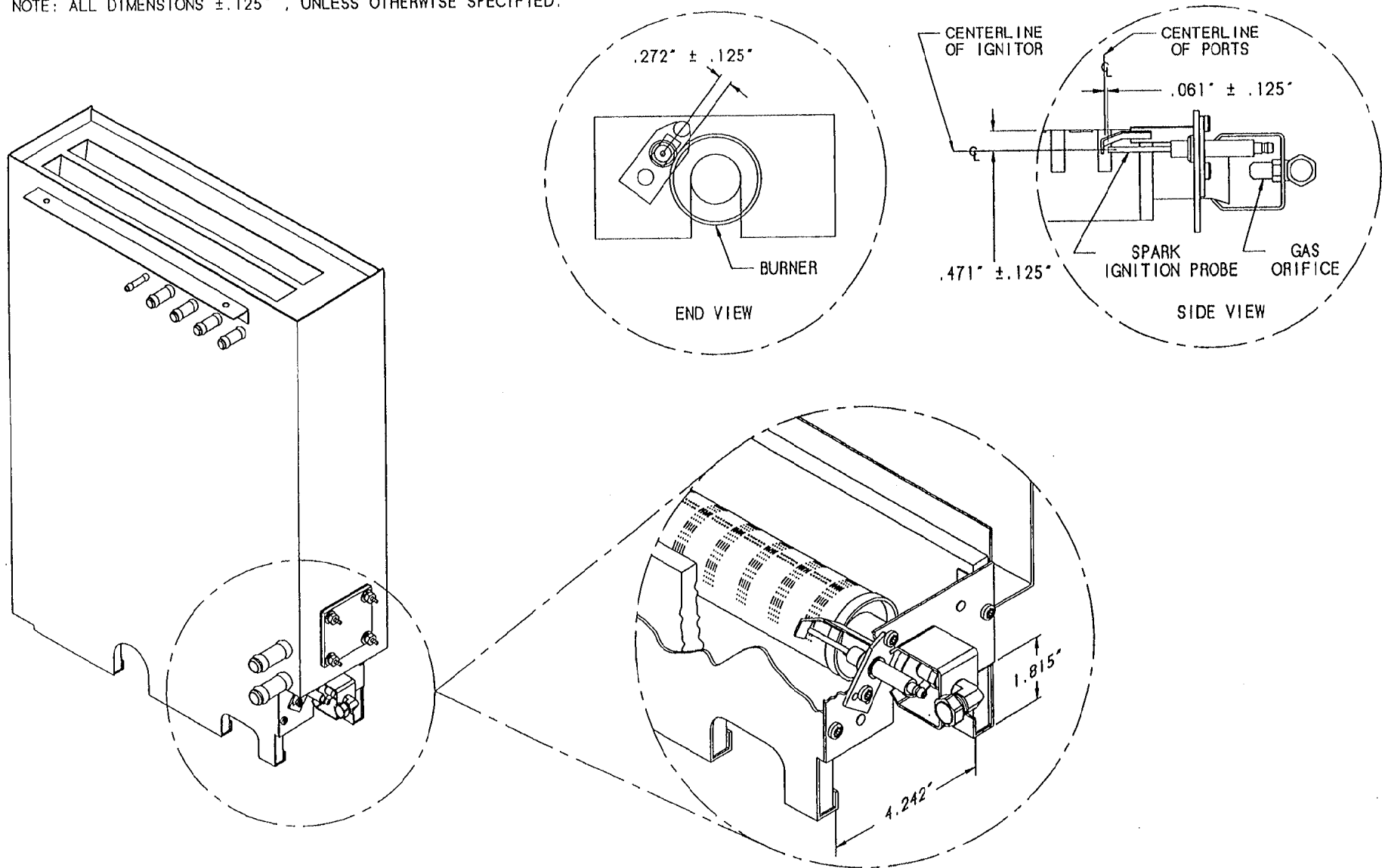
| LET. | REVISIONS | DATE | BY |
|------|-----------|------|----|
|------|-----------|------|----|

| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|----------|---------------------------------------|
| 8 | - | 1064021 | ORIFACE, #41 DRILL, LP GAS |
| | - | 106402 | ORIFACE, #21 DRILL, NATURAL GAS |
| 7 | 1 | 106460 | NUT, 1/4 NPT, BRASS |
| 6 | 1 | 106459 | FITTING, COMP. 1/2 T X 1/4 MPT, 90° |
| 5 | 1 | 106405 | TUBING, 1/2", FORMED |
| 4 | 1 | 06205 | FITTING, COMP. 1/2 T X 1/2 MPT, 90° |
| 3 | 1 | 106406 | TUBING, 1/2", FORMED |
| 2 | 2 | 06204 | FITTING, COMP. 1/2 T X 1/2 MPT, STRA. |
| 1 | - | 1064001 | GAS VALVE, LP |
| | - | 106400 | GAS VALVE, NATURAL |

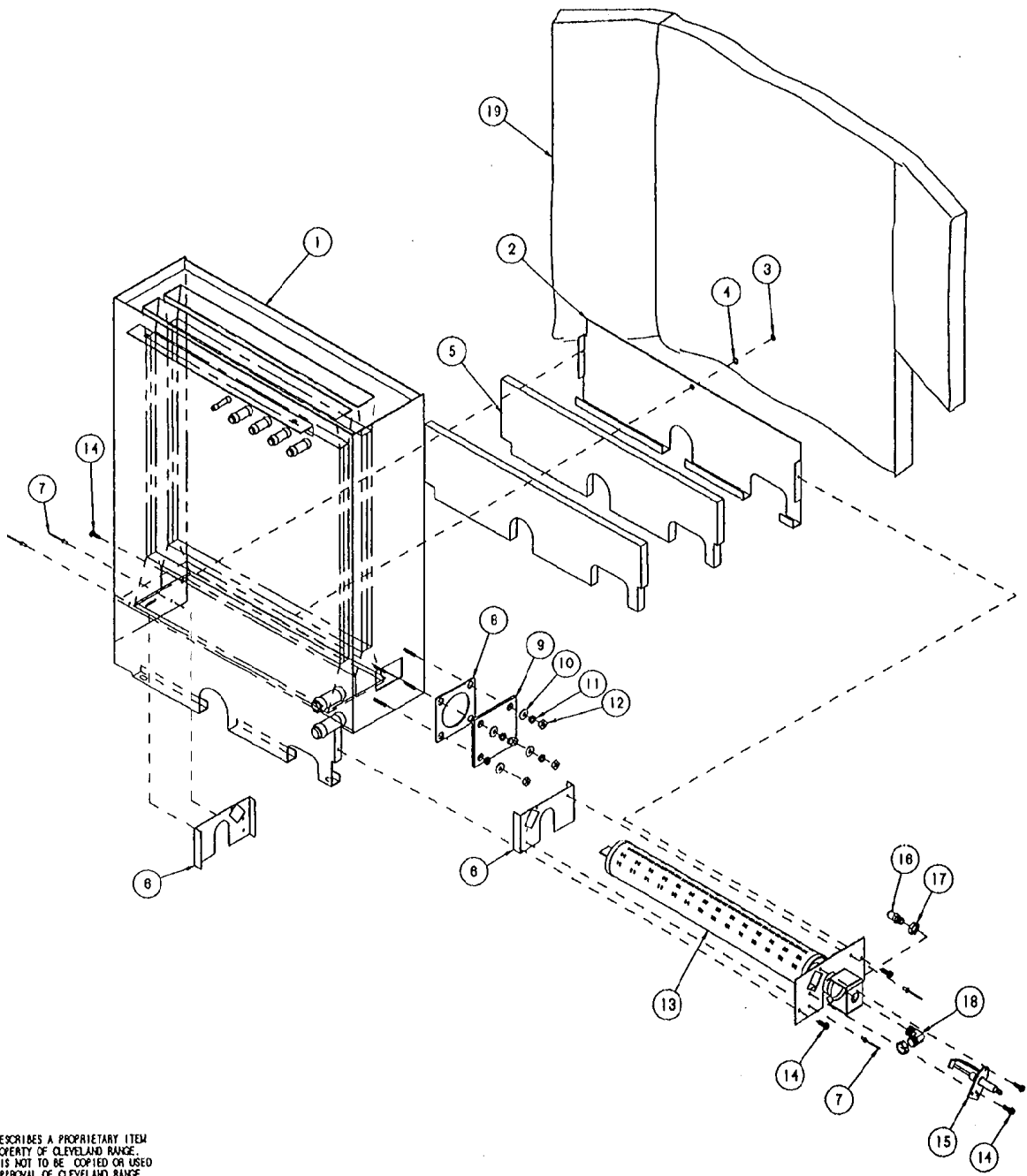
| | | | |
|---------------------------------|--|---|-------------|
| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | |
| DECIMAL ± N/A | SCALE 1/2=1 | DRAWN BY DUTCHMAN | APPROVED BY |
| ANGULAR ± N/A | TITLE GAS VALVE ASSEMBLY SC 5.1, GAS, LP & NATURAL | | |
| CK | DATE 06-14-93 | DRAWING NO. 1064041 LP B - 106404 NAT. | 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.

NOTE: ALL DIMENSIONS $\pm .125"$, UNLESS OTHERWISE SPECIFIED.



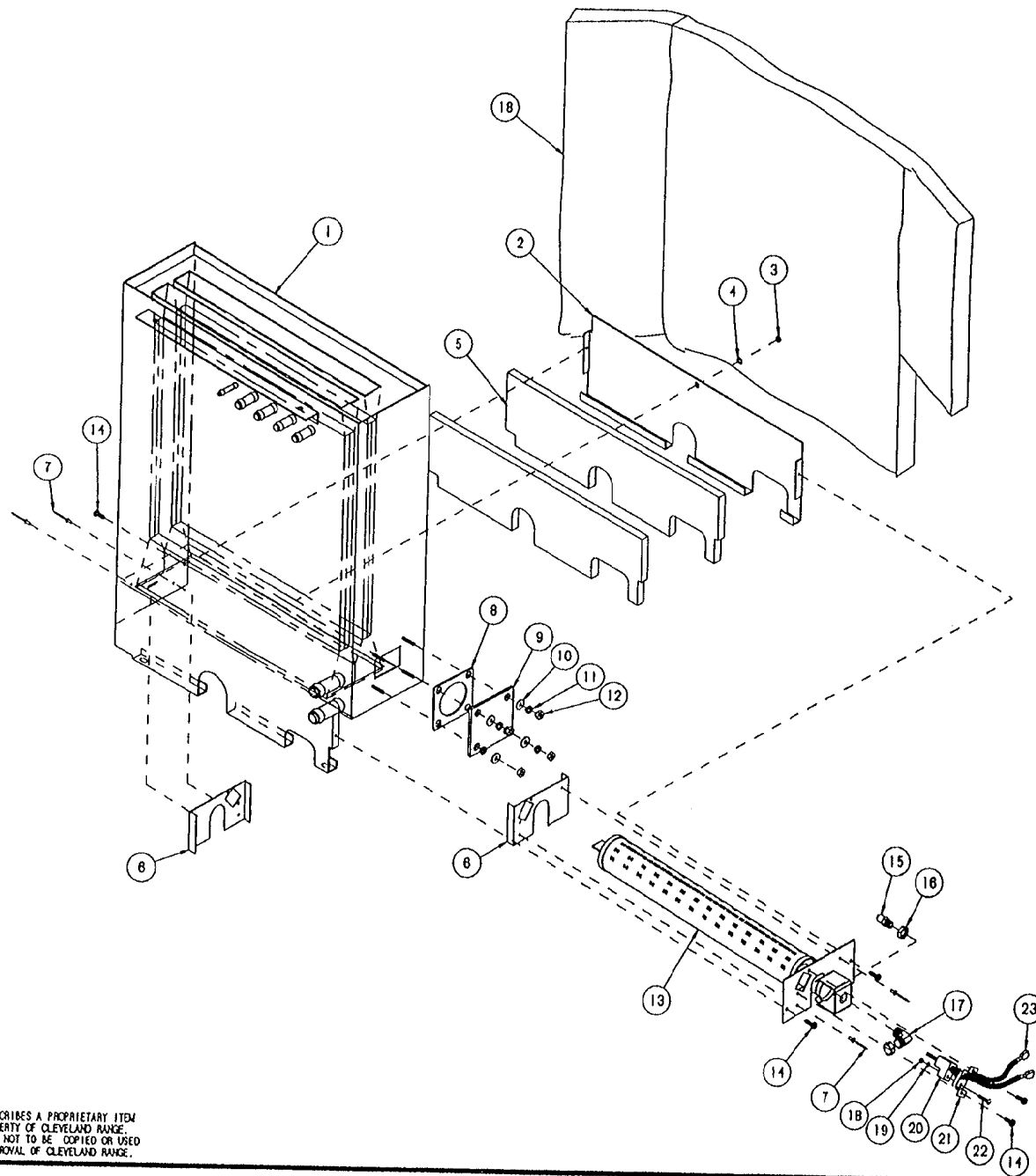
**CLEVELAND RANGE INC. STEAMCRAFT 5.1 GAS
SPARK IGNITION PROBE LOCATION, DWG. 106407G**



| NO. | QTY. | PART NO. | DESCRIPTION |
|-----|------|----------|---|
| 19 | 1 | 108408 | INSULATION, GENERATOR WRAP |
| 18 | - | 108459 | FITTING, COMP. 1/2 T X 1/4 NPT, 90°, MODIFIED |
| 17 | - | 108460 | NUT, 1/4 NPT, BRASS |
| 16 | - | 1084021 | ORIFACE, #41 DRILL, LP GAS |
| | - | 108402 | ORIFACE, #21 DRILL, NATURAL GAS |
| 15 | 1 | 05101 | PROBE, SPARK IGNITION |
| 14 | 5 | 108123 | SCREW, TORX SLOT, #10 X 1/2 |
| 13 | 1 | 108582 | BURNER, WELD ASSEMBLY |
| 12 | 4 | 14618 | NUT, HEX, 1/4-20 |
| 11 | 4 | 23105 | WASHER, LOCK, 1/4" S/S |
| 10 | 4 | 23118 | WASHER, FLAT, 1/4" X 5/8" |
| 9 | 1 | 10546 | COVER, BLOCK-OFF |
| 8 | 1 | 07128 | HEATER GASKET |
| 7 | 4 | 18358 | RIVET, 1/8 DIA, FLUSH BREAK S/S |
| 6 | 2 | 108362 | BRACKET, SIDE, INSULATION SUPPORT |
| 5 | 2 | 108360 | INSULATION, CUT, COMBUSTION CHAMBER |
| 4 | 1 | 23114 | WASHER, LOCK, INT. TOOTH, #10-32 |
| 3 | 1 | 14645 | NUT, HEX #10-32 ZINC PLATED |
| 2 | 1 | 108361 | BRACKET, REAR, INSULATION SUPPORT |
| 1 | 1 | 108369 | GENERATOR ASSY, WELD, SCS I GAS |
| NO. | QTY. | PART NO. | DESCRIPTION |

| | | | |
|---|---|-------------------------|----------------------|
| Cleveland Range Inc. 1333 East 178th St. Cleveland, Ohio 44110-2574 | | | |
| DECIMAL ± N/A | SCALE 1/4"=1 | DRAWN BY DUTCHMAN | APPROVED BY J. B. |
| ANGULAR ± N/A | TITLE GENERATOR ASSEMBLY WITH SPARK IGNITION PROBE STEAMCRAFT 5.1, GAS | | |
| CK | DATE 06-14-93 | DRAWING NO. C-108407 | REV. - |

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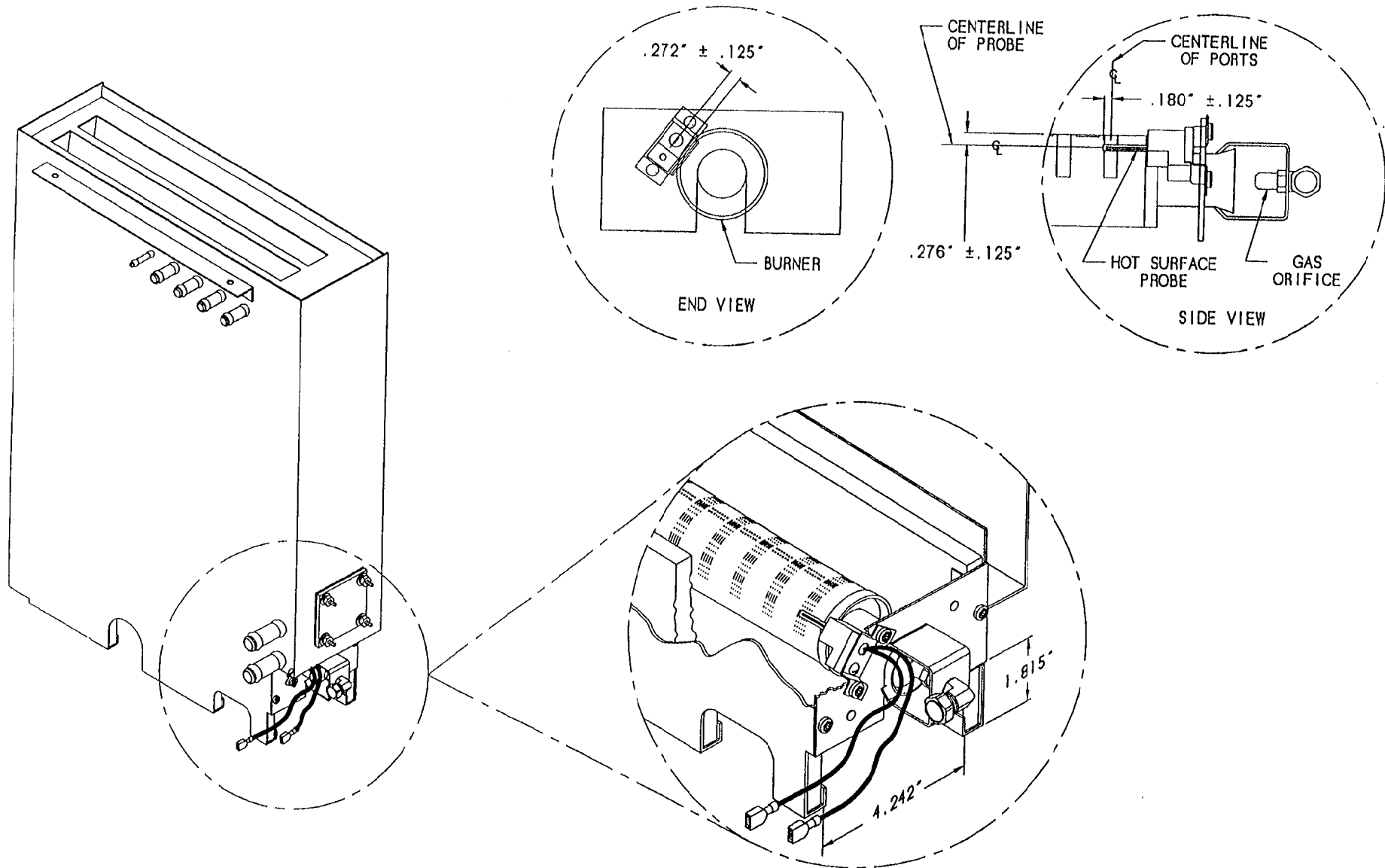
REF.

| NO. | QTY. | PART NO. | DESCRIPTION |
|-----|------|----------|---|
| 24 | 1 | 108408 | INSULATION, GENERATOR WRAP |
| 23 | 2 | 20351 | TERMINAL, SLIPON, FULL-INSULATED |
| 22 | 1 | 19294 | SCREW, ROUND HEAD 10-24 X 3/4 |
| 21 | 1 | 108597 | BRACKET, IGNITOR MOUNT |
| 20 | 1 | 108595 | PROBE, HOT SURFACE, MORTON 401 P |
| 19 | 1 | 101337 | WASHER, INT. TOOTH LOCK, #8 |
| 18 | 1 | 14859 | NUT, HEX 10-24, S/S |
| 17 | - | 108459 | FITTING, COMP. 1/2 T X 1/4 IPT, 90°, MODIFIED |
| 16 | - | 108460 | NUT, 1/4 NPT, BRASS |
| 15 | - | 1084021 | ORIFACE, #41 DRILL, LP GAS |
| 14 | 5 | 108123 | SCREW, TORX SLOT, #10 X 1/2 |
| 13 | 1 | 108582 | BURNER, WELD ASSEMBLY |
| 12 | 4 | 14818 | NUT, HEX, 1/4-20 |
| 11 | 4 | 23105 | WASHER, LOCK, 1/4" S/S |
| 10 | 4 | 23116 | WASHER, FLAT, 1/4" X 5/8" |
| 9 | 1 | 18548 | COVER, BLOCK-OFF |
| 8 | 1 | 07128 | HEATER GASKET |
| 7 | 4 | 18358 | RIVET, 1/8 DIA. FLUSH BREAK S/S |
| 6 | 2 | 108382 | BRACKET, SIDE, INSULATION SUPPORT |
| 5 | 2 | 108380 | INSULATION, CUT, COMBUSTION CHAMBER |
| 4 | 1 | 23114 | WASHER, LOCK, INT. TOOTH, #10-32 |
| 3 | 1 | 14845 | NUT, HEX #10-32 ZINC PLATED |
| 2 | 1 | 108381 | BRACKET, REAR, INSULATION SUPPORT |
| 1 | 1 | 108389 | GENERATOR ASSY, WELD, SC5.1 GAS |

Cleveland Range Inc.
 1333 East 179th St. Cleveland, Ohio 44110-2574
 TOLERANCES (EXCEPT AS NOTED)
 DECIMAL ± N/A SCALE 1/4±1 DRAWN BY DUTCHMAN APPROVED BY J. B.
 SHELLS ± N/A TITLE GENERATOR ASSEMBLY WITH HOT SURFACE PROBE STEAMCRAFT 5.1, GAS
 DATE 07-28-93 DRAWING NO. C-1084072 REV. -

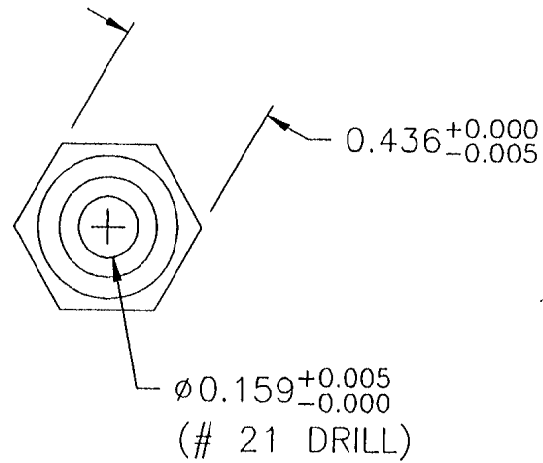
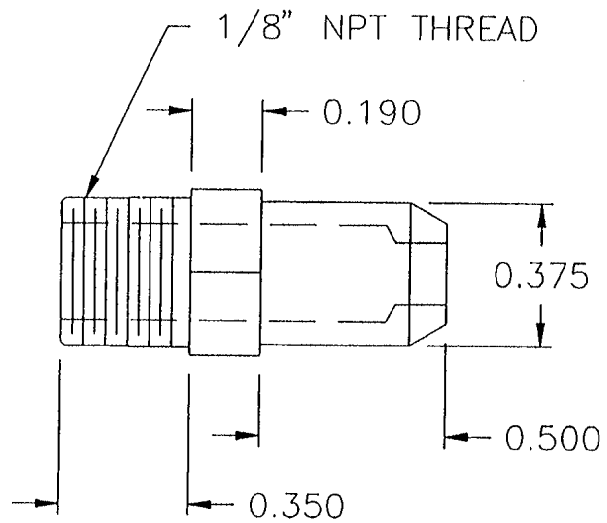
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NOTE: ALL DIMENSIONS $\pm .125"$, UNLESS OTHERWISE SPECIFIED.



**CLEVELAND RANGE INC. STEAMCRAFT 5.1 GAS
HOT SURFACE PROBE LOCATION, DWG. 106407G1**

| | | | |
|------|-----------|------|----|
| LET. | REVISIONS | JATE | BY |
|------|-----------|------|----|

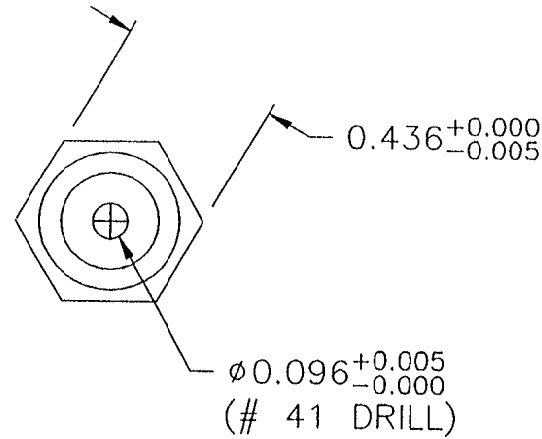
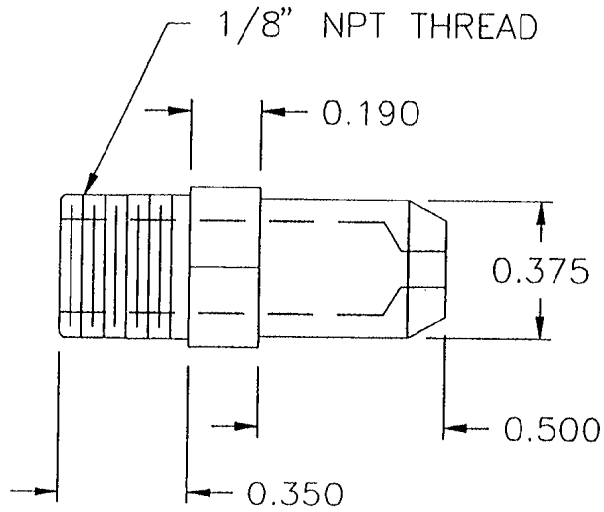


MATERIAL:
BRASS

| ITEM | QTY | PART NO. | DESCRIPTION | |
|---------------------------------|---|---|-------------|--|
| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | | |
| DECIMAL ±.030 | SCALE 2=1 | DRAWN BY JPB | APPROVED BY | |
| ANGULAR ± 1° | TITLE ORIFICE, GAS, # 21 DRILL NATURAL GAS, S/C 5.1 | | | |
| AC | DATE 3/23/93 | DRAWING NO. A- 106402 | REV - | |

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| | | | |
|------|-----------|-----|----|
| LET. | REVISIONS | ATE | BY |
|------|-----------|-----|----|

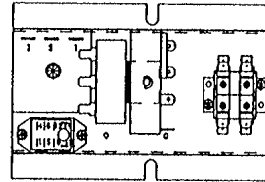
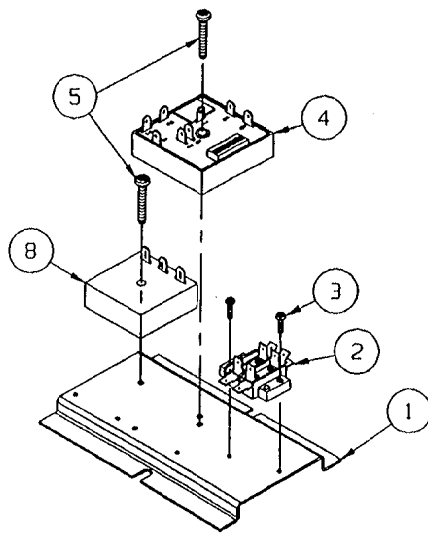
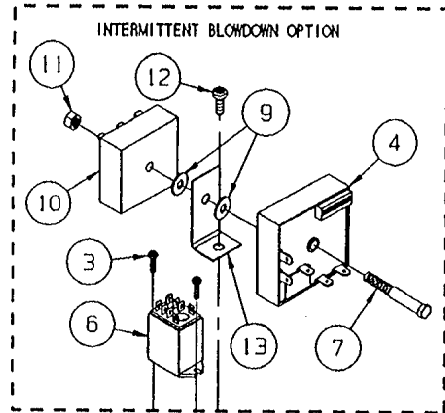


MATERIAL:
BRASS

| ITEM | QTY | PART NO. | DESCRIPTION | |
|---------------------------------|--|---|-------------|--|
| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | | |
| DECIMAL ±.030 | SCALE 2=1 | DRAWN BY JPB | APPROVED BY | |
| ANGULAR ± 1° | TITLE ORIFICE, GAS, # 41 DRILL LP GAS, S/C 5.1 | | | |
| AC | DATE 3/23/93 | DRAWING NO. A- 1064021 | REV - | |

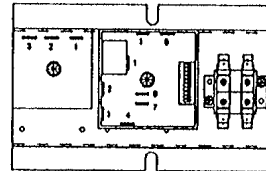
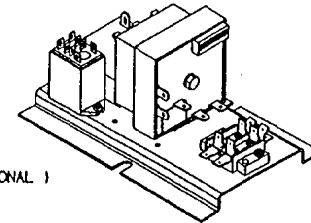
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| LET. | REVISIONS | DATE | BY |
|------|--|----------|-----|
| A | ADDED CONFIGURATION FOR CLEAN LIGHT PER E.O. 10-2812 | 09-15-94 | PJD |



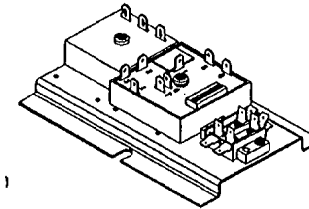
106760

INTERMITTENT BLOWDOWN (OPTIONAL)



1067601

HEAT STANDBY (STANDARD)

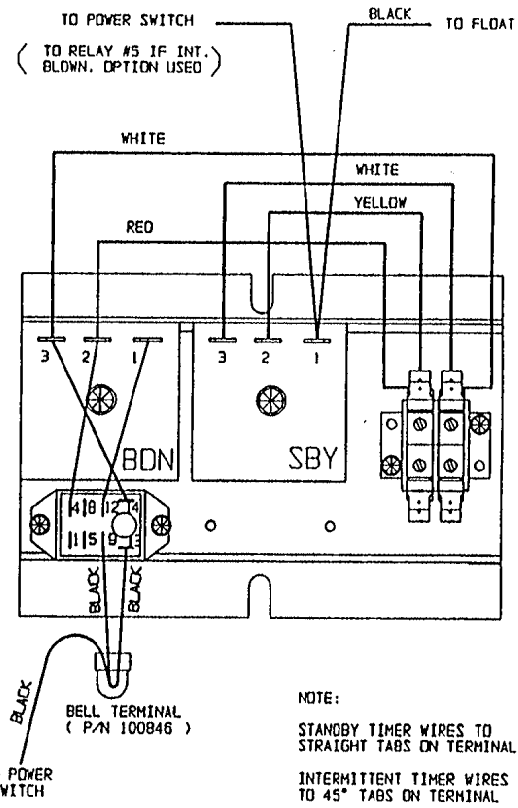
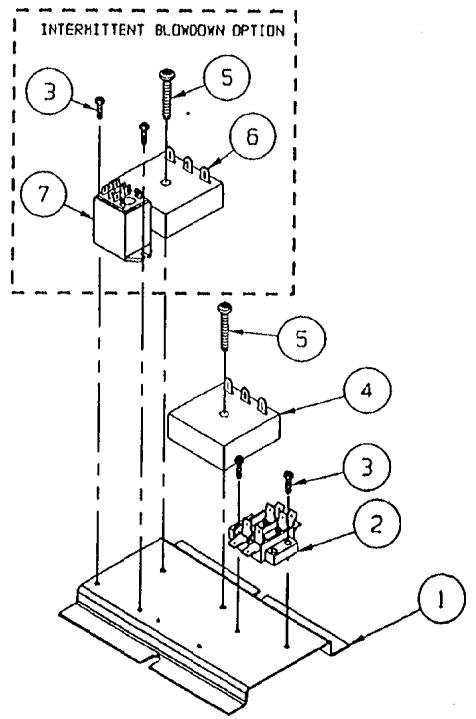


| △ | 13 | - | 1 | 105955 | BRACKET, DUAL TIMER MOUNTING |
|------|------|----------|---|-------------|-------------------------------------|
| △ | 12 | - | 1 | 106123 | SCREW, TORX/SLOT #10-32 X .500" LG. |
| △ | 11 | - | 1 | 14618 | NUT, HEX 1/4-20, FULL FINISH |
| △ | 10 | - | 1 | 106541 | TIMER, 1 MIN. ON 0.8 SEC. OFF |
| △ | 9 | - | 2 | 23116 | WASHER, FLAT 1/4-20 S/S |
| △ | 8 | 1 | 1 | 106580 | TIMER, 20 SEC ON, 6 MIN. OFF |
| △ | 7 | - | 1 | 106118 | BOLT, 1/4-20 X 2-1/4, ZINC PLATED |
| △ | 6 | - | 1 | 105966 | RELAY, 120 V, DPDT |
| △ | 5 | 2 | 1 | 106124 | SCREW, TORX/SLOT #10-32 X 1.00" LG. |
| △ | 4 | 1 | 1 | 106911 | TIMER, CLEAN LIGHT (DIP SWITCHES) |
| △ | 3 | 2 | 4 | 106127 | SCREW, TORX/SLOT #6-32 X .500" LG. |
| | 2 | 1 | 1 | 44168 | TERMINAL, BLOCK ASM, 2 POLE |
| | 1 | 1 | 1 | 106306 | BRACKET, OPTION PLATE |
| ITEM | QTY. | PART NO. | | DESCRIPTION | |

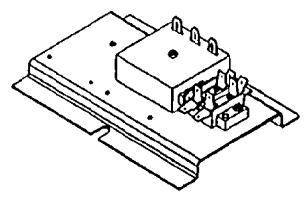
| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | | | |
|---------------------------------|--|--|--|-------------|--|
| DECIMAL ± N/A | SCALE 1/2"=1" | DRAWN BY D. ATHERTON | | APPROVED BY | |
| ANGULAR ± N/A | TITLE HEAT STANDBY PLATE WITH INTERMITTENT BLOWDOWN OPTION STEAMCRAFT ULTRA 5 GAS | | | | |
| CK | DATE 01/21/94 | DRAWING NO. C - 106760/1067601 | | REV. A | |

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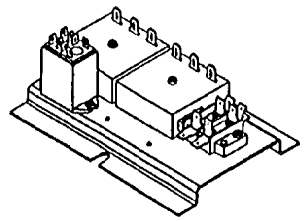
| LET. | REVISIONS | DATE | BY |
|------|-------------------------------------|----------|-----|
| A | REVISED NOTES PER E.O. 1 R2 | 04-14-93 | PJO |
| B | REDRAWN & REVISED PER EOC/C-2400 R1 | 08-17-93 | PJO |
| C | ADDED SC 5.1 GAS TIMER | 08-02-93 | PJO |
| D | P/N 106541 WAS 104716 | 11-04-93 | DFA |



NOTE:
 STANDBY TIMER WIRES TO STRAIGHT TABS ON TERMINAL
 INTERMITTENT TIMER WIRES TO 45° TABS ON TERMINAL



HEAT STANDBY (STANDARD)



INTERMITTENT BLOWDOWN (OPTIONAL)

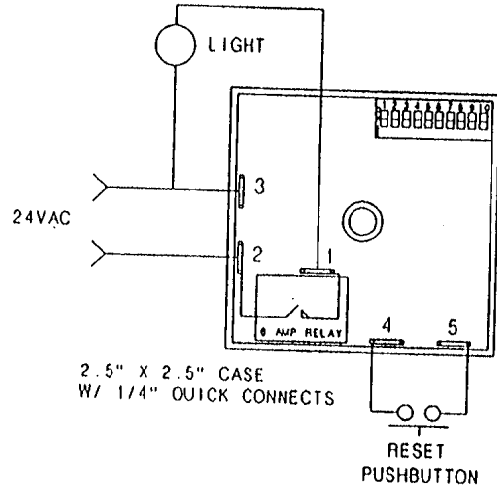
| ITEM | QTY. | PART NO. | DESCRIPTION |
|------|------|----------|--------------------------------|
| 7 | 1 | 105966 | RELAY, 120 V, DPDT |
| 6 | 1 | 106541 | TIMER, 1 MIN ON 0.8 SEC OFF |
| 5 | 2 | 106124 | SCREW, TORX/SLOT 10-32 X 1.00" |
| 4 | 2 | 106580 | TIMER, 20 SEC ON, 6 MIN. OFF |
| 4 | 1 | 106247 | TIMER, 2 SEC ON, 64 SEC OFF |
| 3 | 4 | 106127 | SCREW, TORX/SLOT 6-32 X 1/2" |
| 2 | 1 | 44168 | TERMINAL, BLOCK ASM, 2 POLE |
| 1 | 1 | 106306 | BRACKET, OPTION PLATE |

| ITEM | QTY. | PART NO. | DESCRIPTION |
|----------------|------|----------|-------------|
| STEAMCRAFT 3.1 | 1 | | |
| STEAMCRAFT 5.1 | 1 | | |
| SC 5.1 GAS | 1 | | |

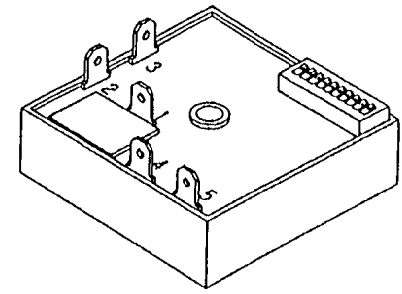
| | | | | | | | |
|------------------------------|---------------|---|--|-------------------|--|------------------------|--|
| TOLERANCES (EXCEPT AS NOTED) | | SCALE 1/2"=1' | | DRAWN BY DUTCHMAN | | APPROVED BY | |
| DECIMAL ± N/A | ANGULAR ± N/A | TITLE HEAT STANDBY WITH INTERMITTENT BLOWDOWN OPTION STEAMCRAFT 3 | | DATE 03-18-93 | | DRAWING NO. C - 106433 | |
| REV. 0 | | | | | | | |

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| | | | |
|------|-----------|------|----|
| LET. | REVISIONS | DATE | BY |
|------|-----------|------|----|



| SWITCH # | TIME AMOUNT |
|----------|-------------|
| 1 • | 0.5 HR |
| 2 • | 1.0 HR |
| 3 • | 2.0 HR |
| 4 • | 4.0 HR |
| 5 • | 8.0 HR |
| 6 • | 16.0 HR |
| 7 • | 32.0 HR |
| 8 • | 64.0 HR |
| 9 • | 128.0 HR |
| 10 • | 256.0 HR |



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 8 • SWITCH 5 • SWITCH 3

SOURCE:
 AIROTRONICS
 2747 RT. 20 E. BOX 326
 CAZENOVIA, N. Y. 13035

TYPE: CR-2 TGCX03511H5E2
 INPUT: 24 VAC, 6 AMP
 DELAY: 5-511, 5 HR. ON-DLY

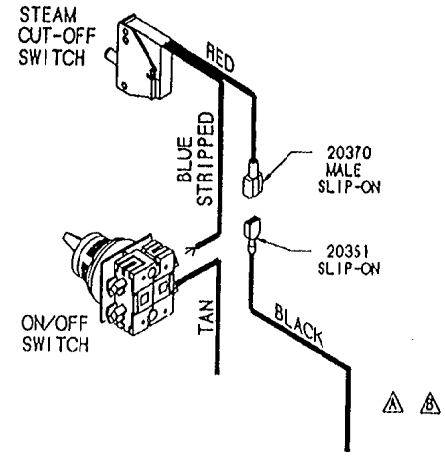
OPERATION:
 SELECT DELAY VIA DIP SWITCH. APPLY 24VAC TO THE TIMER.
 AS THE SUPPLY VOLTAGE IS TURNED ON AND OFF TO THE TIMER
 THE TIMER WILL KEEP TRACK OF THE ELAPSED TIME THE
 SUPPLY VOLTAGE IS ON. ONCE THE TIMERS SUPPLY VOLTAGE HAS
 BEEN ON LONGER THAN THE SELECTED DELAY THE RELAY WILL
 TRANSFER. THIS 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.

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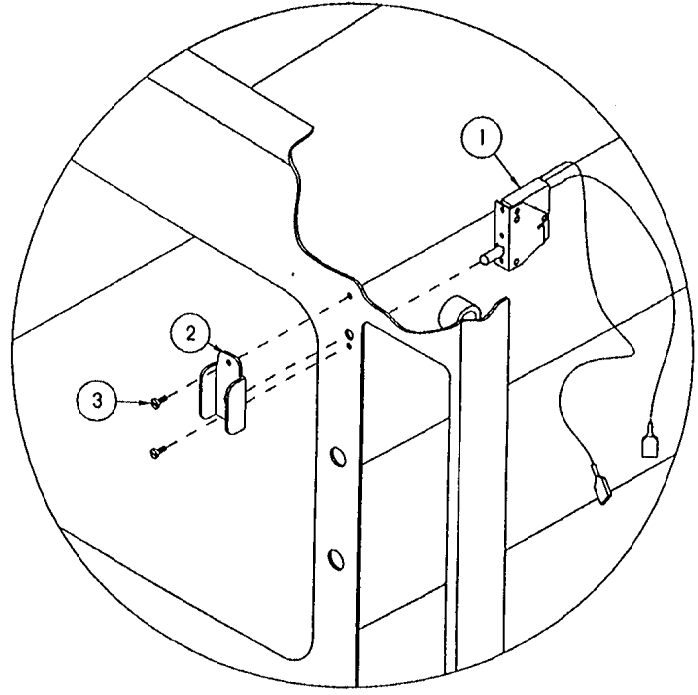
| ITEM | QTY. | PART NO. | DESCRIPTION | |
|---------------------------------|---|--|-------------|--|
| TOLERANCES (EXCEPT AS NOTED) | | CLEVELAND RANGE INC. 1333 East 179th St. Cleveland, Ohio 44110-2574 | | |
| DECIMAL ± .030 | SCALE 1=1 | DRAWN BY DUTCHMAN | APPROVED BY | |
| ANGULAR ± 1° | TITLE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

| LET. | REVISIONS | DATE | BY |
|------|--|----------|-----|
| A | WAS: HIGH LIMIT NOW: FLOAT PER E.O. 1C-2381 R1 | 03-01-93 | PJD |
| B | 20351 BLACK WAS FROM FLOAT ONLY PER EO 1C-2381 R2 | 04-14-93 | PJD |

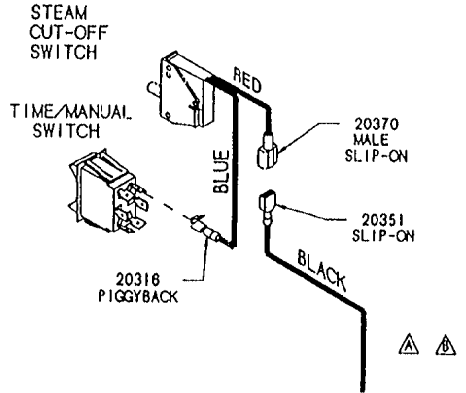
FOR ON/OFF SWITCH
TIMER



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



FOR ELECTRICAL & 60 MINUTE
MECHANICAL TIMERS

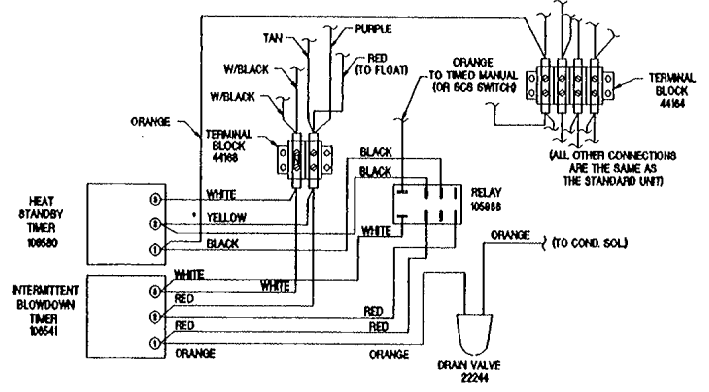
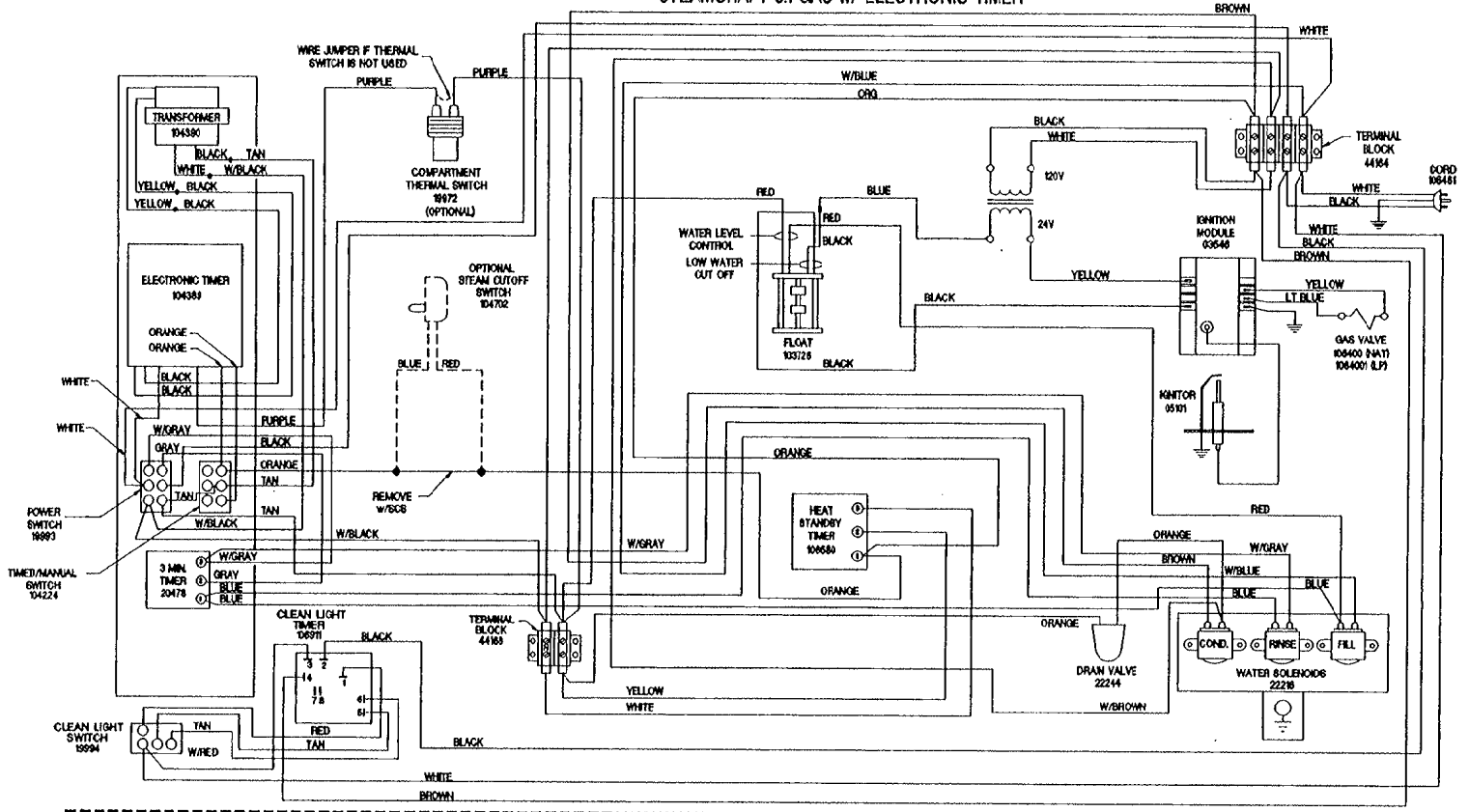


FROM: FLOAT (STANDARD)
GEN. STAND-BY TIMER (SBY OPTION)
BELL TERMINAL (TDS AND SBY OPTIONS TOGETHER)

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.

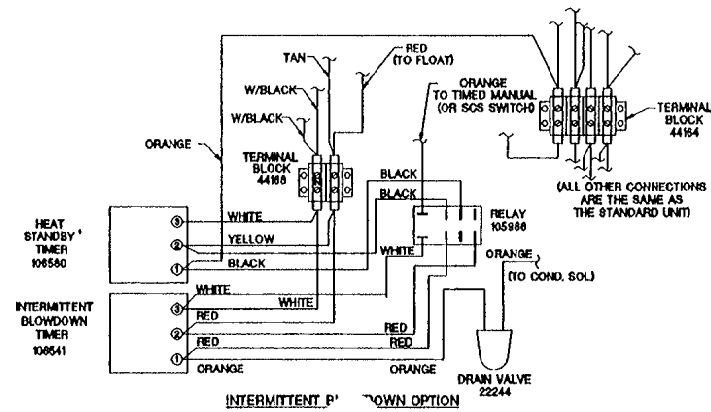
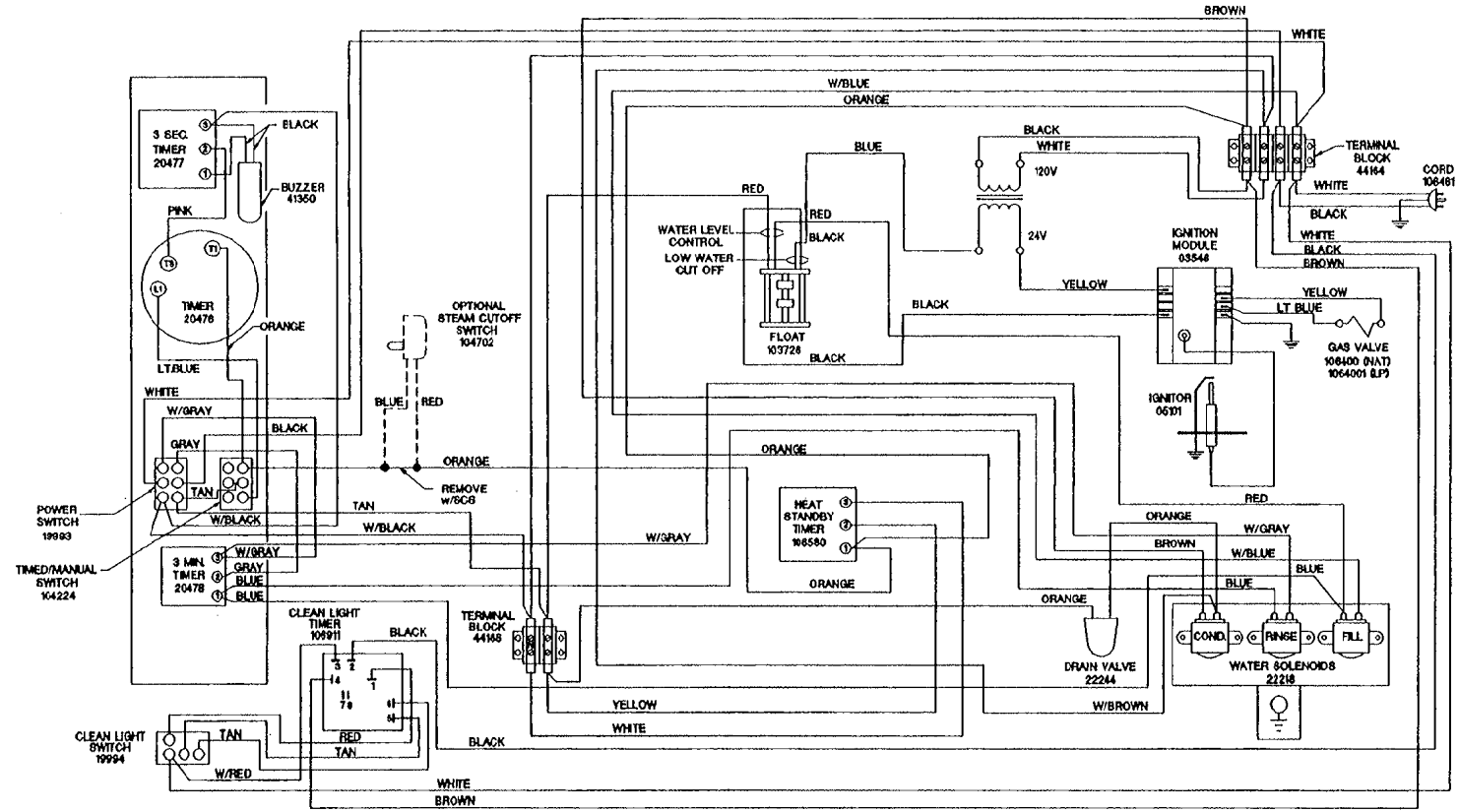
| 3 | 2 | 105449 | SCREW, TRUSS HD. 6-32 X .312, S/S |
|---|---|------------------------|-----------------------------------|
| 2 | 1 | 105442 | GUARD, SWITCH PROTECTION |
| 1 | 1 | 104702 | SWITCH, CMPT. STEAM SHUT-OFF |
| ITEM | QTY. | PART NO. | DESCRIPTION |
| TOLERANCES (EXCEPT AS NOTED) | | | |
| CLEVELAND RANGE INC. 1339 East 179th St. Cleveland, Ohio 44110-2574 | | | |
| DECIMAL ± .030 | SCALE N.T.S. | DRAWN BY DUTCHMAN | APPROVED BY |
| ANGULAR ± 1° | TITLE STEAM CUT-OFF OPTION STEAMCRAFT 3.1 AND 5.1 | | |
| CK | DATE 02-03-93 | DRAWING NO. C - 106 | REV. B |

STEAMCRAFT 5.1 GAS w/ ELECTRONIC TIMER



INTERMITTENT BLOWDOWN OPTION

STEAMCRAFT 5.1 GAS w/ MECHANICAL TIMER

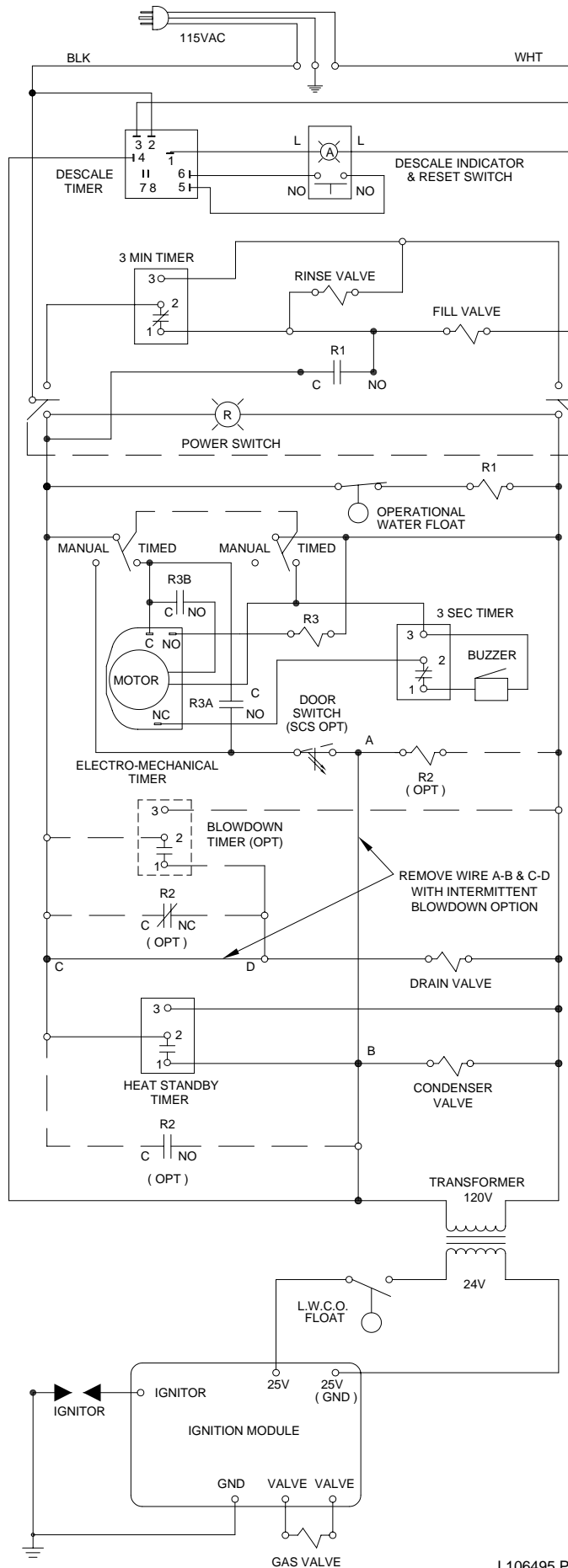


CLEVELAND RANGE 21CGA5
SEQUENCE OF OPERATIONS
STEAMCRAFT ULTRA 5
Mechanical Timer

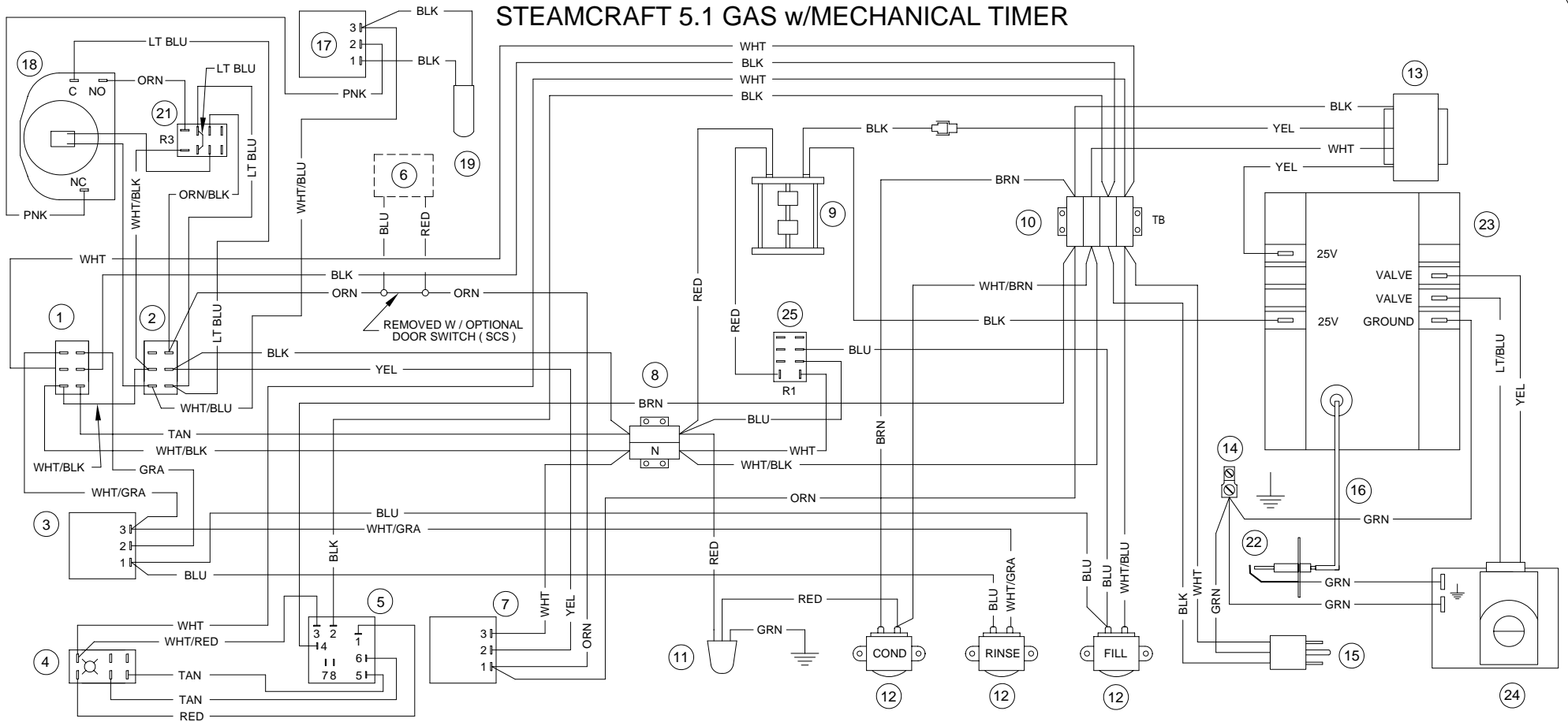
1. To turn the unit on, depress the red on/off rocker switch.
2. 115 VAC is sent to the red indicator light.
3. 115 VAC is sent to the normally open drain valve closing it.
4. 115 VAC is sent through the normally closed water level (top) float switch to the coil of the R1 relay
 - The R1 relay energizes
 - The R1 contacts close 115 VAC is sent to the fill solenoid
5. The fill solenoid opens and the generator fills through the drain valve.
 - The water fills to the normally open low water cut off float switch (bottom float).
 - The float is lifted by the water and the switch closes.
 - The water fills to the normally closed water level (top) float switch.
 - The float is lifted by the water and the switch opens.
 - With the switch opened 115 VAC is removed from the coil of the R1 relay.
 - The R1 relay deenergizes and 115 VAC is removed from the fill solenoid and the unit stops filling
 - When the water level drops, the operational water float drops closing the switch and energizing the R1 relay
 - The R1 contacts close 115 VAC is sent to the fill solenoid. The unit fills back to the proper level.
6. 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 R3 relay coil.
 - The R3 relay energizes
 - The R3B contacts close sending 115 VAC to the timer motor
 - The R3A contacts close sending 115 VAC through the optional door switch to the condensate valve and the primary of the 24 VAC ignition transformer.
 - 115 VAC is sent to the #4 terminal on the clean light timer.
 - The clean light timer counts down from the set time (time is set by dip switches on timer)
 - 115 VAC is sent to the amber light in the clean light switch.
 - The light is turned off and the clean light timer is reset by depressing the clean light timer switch.
 - With the sight glass filled the L.W.C.O. float will be raised and the normally open switch is closed.
 - 24 VAC is supplied from the secondary of the transformer through the L.W.C.O. float switch to the ignition module.

- Spark is sent to the igniter.
 - 24 VAC is sent to the gas valve.
 - The gas valve opens to the first stage (.7" W.C. natural gas and 2.25" LP) allowing gas to the burner.
 - 6 to 8 seconds later the valve opens to the second stage (3.5" W.C. natural gas and 10" W.C. LP)
 - When the gas is ignited the ignition module detects at least 1.5 micro-amps DC through the flame and burner ground wire.
 - If the 1.5 micro-amps DC is not detected in 4 seconds the ignition module locks out and has to be reset by removing 24 VAC to the module. This can be done by turning the steamer on and off.
7. With water in the generator and flame heating it, steam is made and directed into the cooking chamber.
8. The steamer will continue to steam until the timer runs down.
- When the timer times down 115 VAC is removed from the R3 relay.
 - The R3 relay de energizes.
 - The R3B contacts open removing 115 VAC from the timer motor
 - The R3A contacts open removing 115 VAC from the heat circuit
 - 115 VAC is sent to the 3 second timer
 - 115 VAC sent to the buzzer for three seconds.
9. The steamer is turned off by depressing the on/off rocker switch.
- 115 VAC is removed from the heat and timer circuits.
 - 115 VAC is removed from the drain valve.
 - 115 VAC is sent to the 3-minute timer and water is sent in to the now open drain valve flushing and cooling the drain.

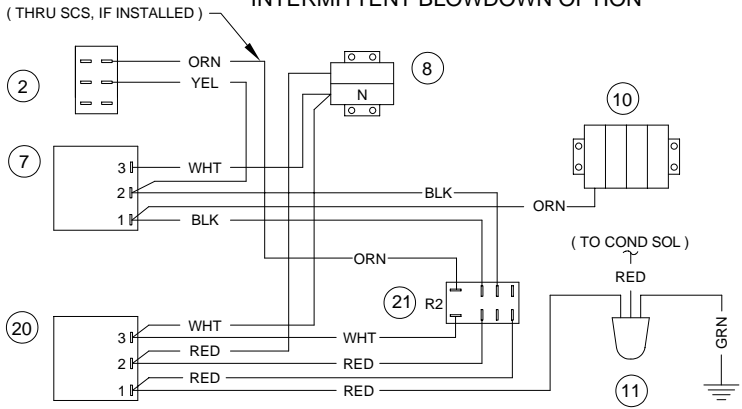
STEAMCRAFT 5.1 GAS, MECHANICAL TIMER



STEAMCRAFT 5.1 GAS w/MECHANICAL TIMER



INTERMITTENT BLOWDOWN OPTION



PARTS LIST

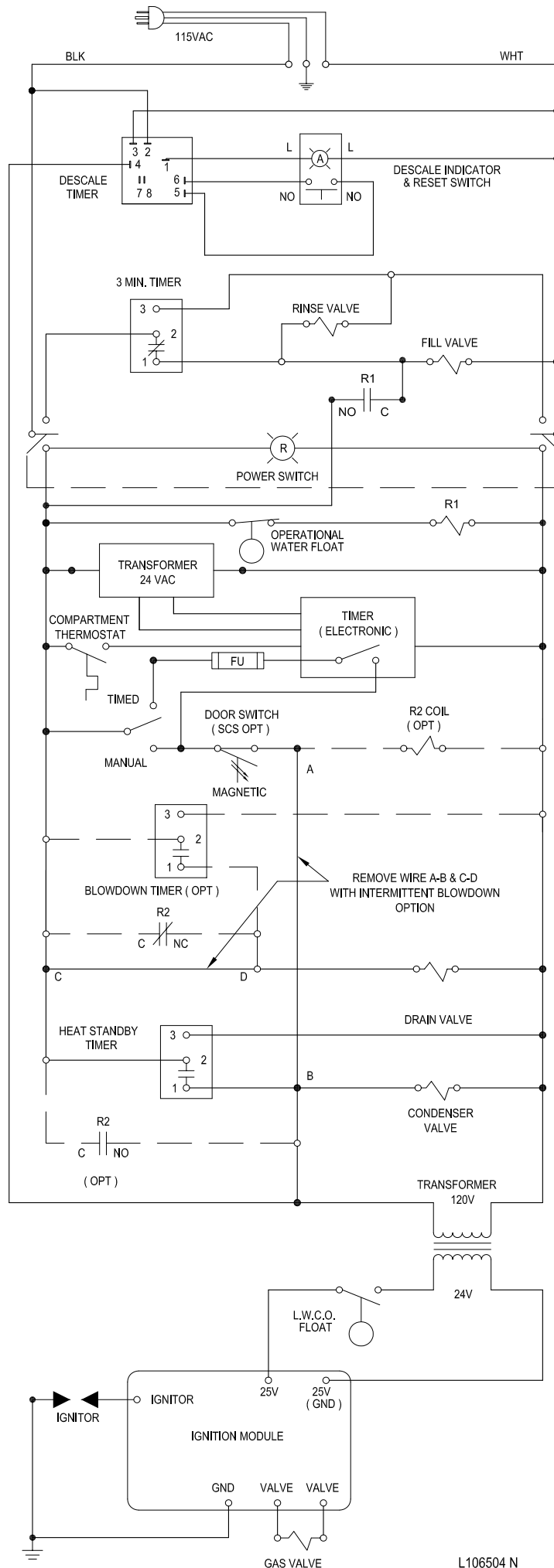
- | | | |
|---------------------------------------|----------------------------------|-------------------------------|
| 1 19993 - POWER SWITCH | 13 20528 - TRANSFORMER 24V | 24 106400 - GAS VALVE (NAT) |
| 2 104224 - TIMED/MANUAL SWITCH | 14 20304 - GROUND LUG | 1064001 - GAS VALVE (LP) |
| 3 20478 - 3 MIN TIMER | 15 106461 - LINE CORD | 25 105966 - RELAY |
| 4 19994 - DESCALE INDICATOR RESET SW. | 16 1065681150 - IGNITION CABLE | |
| 5 106911 - DESCALE TIMER | 17 20477 - 3 SEC TIMER | |
| 6 108880 - DOOR SW (SCS) MAGNETIC | 18 110198 - MOTORIZED TIMER | |
| 7 106580 - HEAT STANDBY TIMER | 19 41350 - BUZZER | |
| 8 44168 - TERMINAL BLOCK | 20 106541 - INTMT BLOWDOWN TIMER | |
| 9 103726 - FLOAT ASSEMBLY | 21 105966 - RELAY | |
| 10 44164 - TERMINAL BLOCK | 22 300092 - IGNITOR | |
| 11 22221 - DRAIN VALVE | 23 03546 - IGNITION MODULE | |
| 12 22218 - WATER SOLENOIDS | | |

CLEVELAND RANGE 21CGA5
SEQUENCE OF OPERATIONS
Electronic Timer
Floats

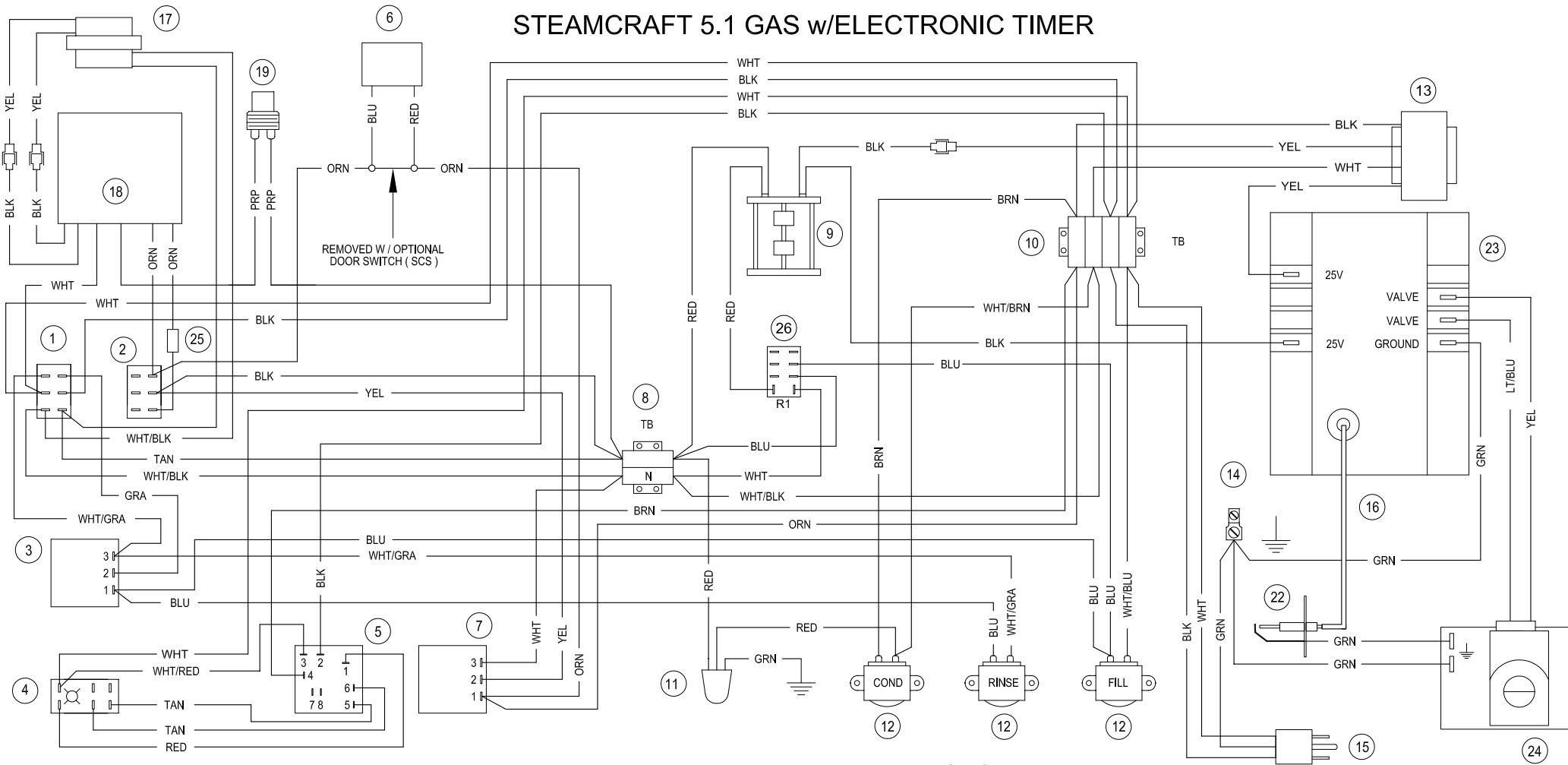
1. To turn the unit on, depress the red on/off rocker switch.
2. 115 VAC is sent to the red indicator light.
3. 115 VAC is sent to the 24 VAC timer transformer.
 - 24 VAC is sent to the timer.
4. 115 VAC is sent to normally open drain valve closing it.
5. 115 VAC is sent through the normally closed operational water float switch (top float, red wires) to the fill solenoid.
6. The fill solenoid opens and the generator fills through the drain valve.
 - The water fills to the normally open low water cut off float switch (bottom float black wires).
 - The water lifts the float and the switch closes.
 - The water fills to the normally closed operational water float switch.
 - The water lifts the float and the switch opens.
 - With the switch opened 115 VAC is removed from the fill solenoid and the unit stops filling.
 - When the water level drops, the operational water float drops closing the switch and energizing the fill solenoid. The unit fills back to the proper level.
7. When the timed/manual switch is in the timed position and time is on the timer
 - The timer display will alternate between “PAUS” and the set time. This will continue until the cooking cabinet reaches 193 degrees and the thermal switch closes. Then the timer will begin timing down.
 - 115 VAC is sent from the timer through the optional door switch to the condensate valve and the primary of the 24 VAC ignition transformer.
 - 115 VAC is sent to the #4 terminal on the clean light timer.
 - The clean light timer counts down from the set time (time is set by dip switches on timer)
 - 115 VAC is sent to the amber light in the clean light switch.
 - The light is turned off and timer reset by depressing the clean light timer switch.
 - With the sight glass filled the L.W.C.O. float will be raised and the normally open switch is closed.
 - 24 VAC is supplied from the secondary of the transformer through the L.W.C.O. float switch to the ignition module.
 - Spark is sent to the igniter.
 - 24 VAC is sent to the gas valve.

- The gas valve opens to the first stage (.7" W.C. natural gas and 2.25" LP) allowing gas to the burner.
 - 6 to 8 seconds later the valve opens to the second stage (3.5" W.C. natural gas and 10" W.C. LP)
 - When the gas is ignited the ignition module detects at least 1.5 micro-amps DC through the flame and burner ground wire.
 - If the 1.5 micro-amps DC is not detected in 4 seconds the ignition module locks out and has to be reset by removing 115 VAC to the module.
8. With water in the generator and flame heating it steam is made and directed into the cooking chamber.
9. The steamer will continue to produce steam until the timer counts down.
 - When the timer times down 115 VAC is removed from the heat circuit and condensate circuit.
10. The steamer is turned off by depressing the on/off rocker switch.
 - 115 VAC is removed from the heat and timer circuits.
 - 115 VAC is removed from the drain valve.
 - 115 VAC is sent to the 3-minute timer and water is sent in to the now open drain valve flushing and cooling the drain.

STEAMCRAFT 5.1 GAS, ELECTRONIC TIMER

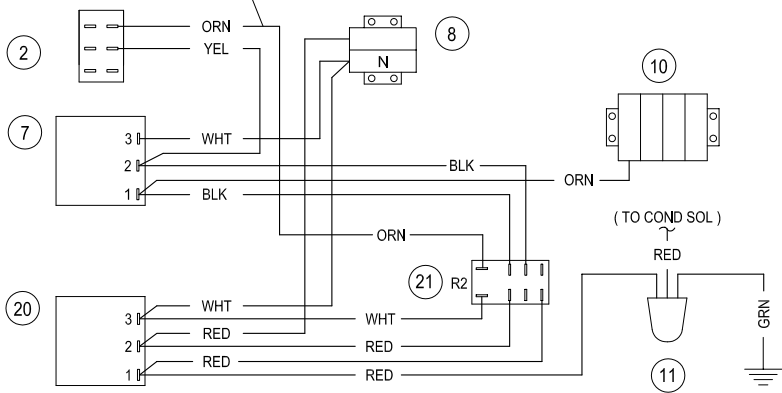


STEAMCRAFT 5.1 GAS w/ELECTRONIC TIMER



INTERMITTENT BLOWDOWN OPTION

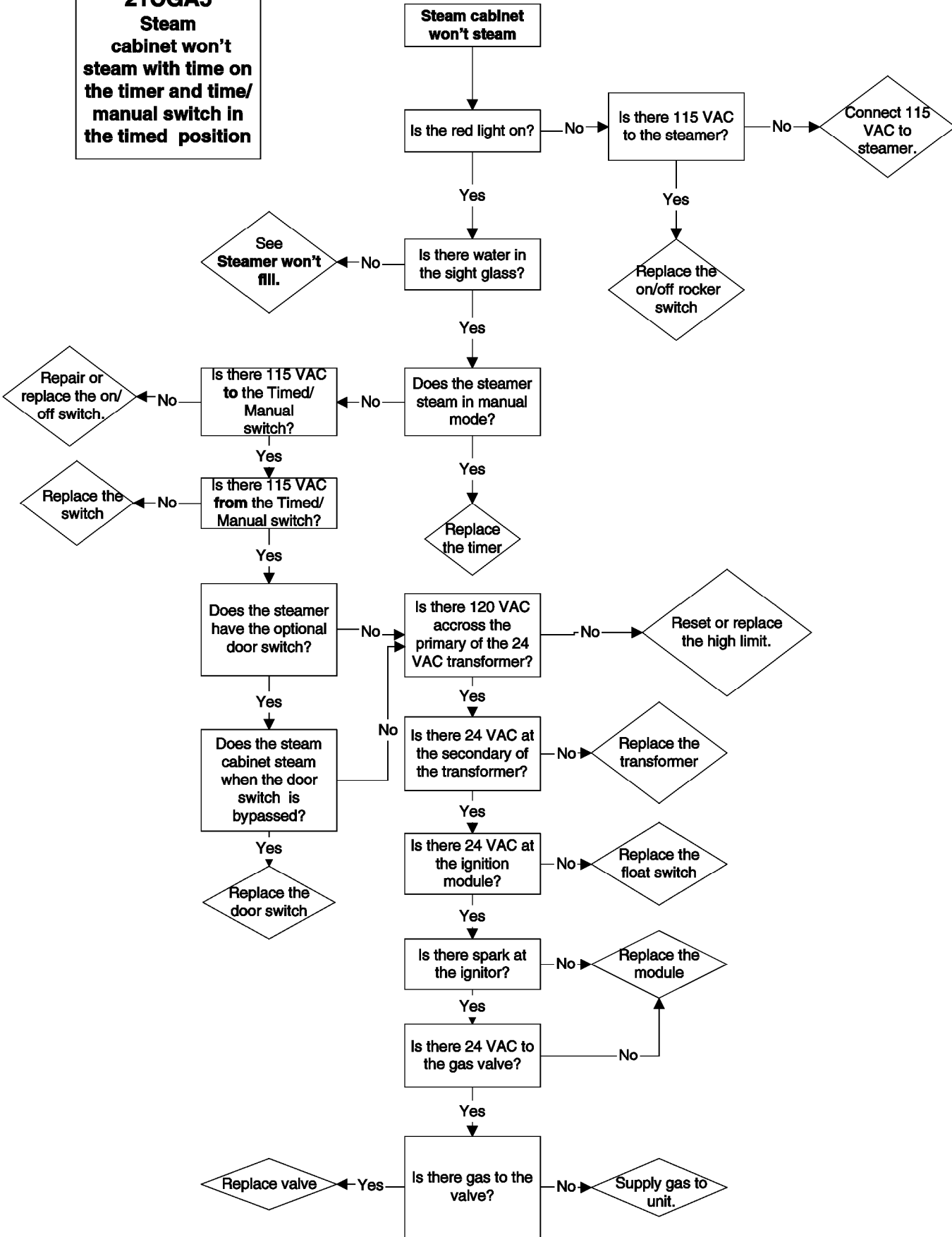
(THRU SCS, IF INSTALLED)



PARTS LIST

- | | | | | | |
|----|------------------------------------|----|-------------------------------|----|----------------------------|
| 1 | 19993 - POWER SWITCH | 12 | 22218 - WATER SOLENOIDS | 23 | 03546 - IGNITION MODULE |
| 2 | 104224 - TIMED / MANUAL SWITCH | 13 | 20528 - TRANSFORMER 24V | 24 | 106400 - GAS VALVE (NAT) |
| 3 | 20478 - 3 MIN TIMER | 14 | 20304 - GROUND LUG | | 1064001 - GAS VALVE (LP) |
| 4 | 19994 - DESCALE INDICATOR RESET SW | 15 | 106461 - LINE CORD | 25 | 106909 - 2 AMP, 250V FUSE |
| 5 | 106911 - DESCALE TIMER | 16 | 1065681150 - IGNITION CABLE | 26 | 105966 - RELAY |
| 6 | 108880 - DOOR SW (SCS) MAGNETIC | 17 | 104390 - TRANSFORMER | | |
| 7 | 106580 - HEAT STANDBY TIMER | 18 | 104389 - ELECTRONIC TIMER | | |
| 8 | 44168 - TERMINAL BLOCK | 19 | 19972 - THERMAL SWITCH | | |
| 9 | 103726 - FLOAT ASSEMBLY | 20 | 106541 - INTMT BLOWDOWN TIMER | | |
| 10 | 44164 - TERMINAL BLOCK | 21 | 105966 - RELAY | | |
| 11 | 22221 - DRAIN VALVE | 22 | 300092 - IGNITOR | | |

PROBLEM:
21CGA5
Steam
cabinet won't
steam with time on
the timer and time/
manual switch in
the timed position



**PROBLEM:
21CGA5
Steam
generator
won't fill**

**Steam generator
won't fill.**

Yes

Is there 115 VAC to the steamer?

No

Supply 115 VAC to the steamer.

Yes

Is there water to the steamer?

No

Supply cold water to the steamer.

Yes

Does steamer fill with float switch (2 red wires) by-passed?

Yes

Replace the float switch.

No

Is there 120 VAC across the coil of the fill solenoid?

No

Replace the wiring to the fill solenoid.

Yes

Is water leaving the fill solenoid?

No

Replace the fill solenoid

Yes

Is there 120 VAC across the coil of the drain valve?

No

Replace wiring to drain solenoid.

Does the steamer have the optional intermittent blowdown timer?

Yes

Is water draining from the generator?

No

If water is leaving the fill solenoid and not draining from the generator where is it going? check for leaks..

Yes

Replace the drain valve.

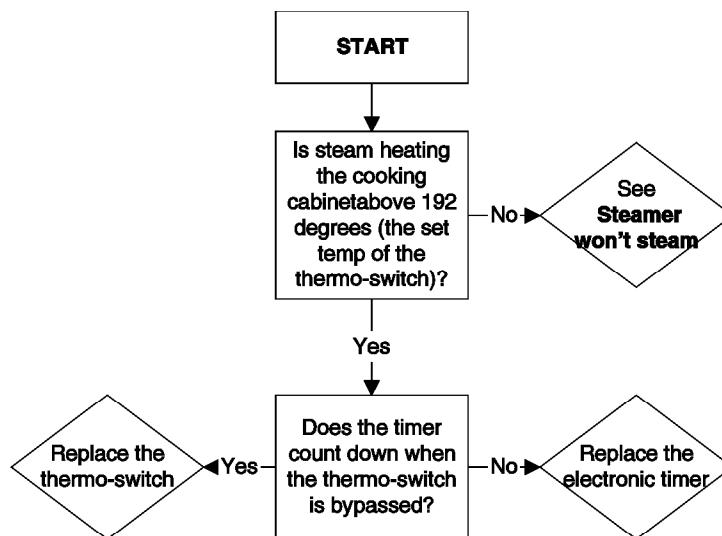
Replace the wiring to the intermittent blowdown timer .

Is there 120 VAC between terminals 2&3 on the timer?

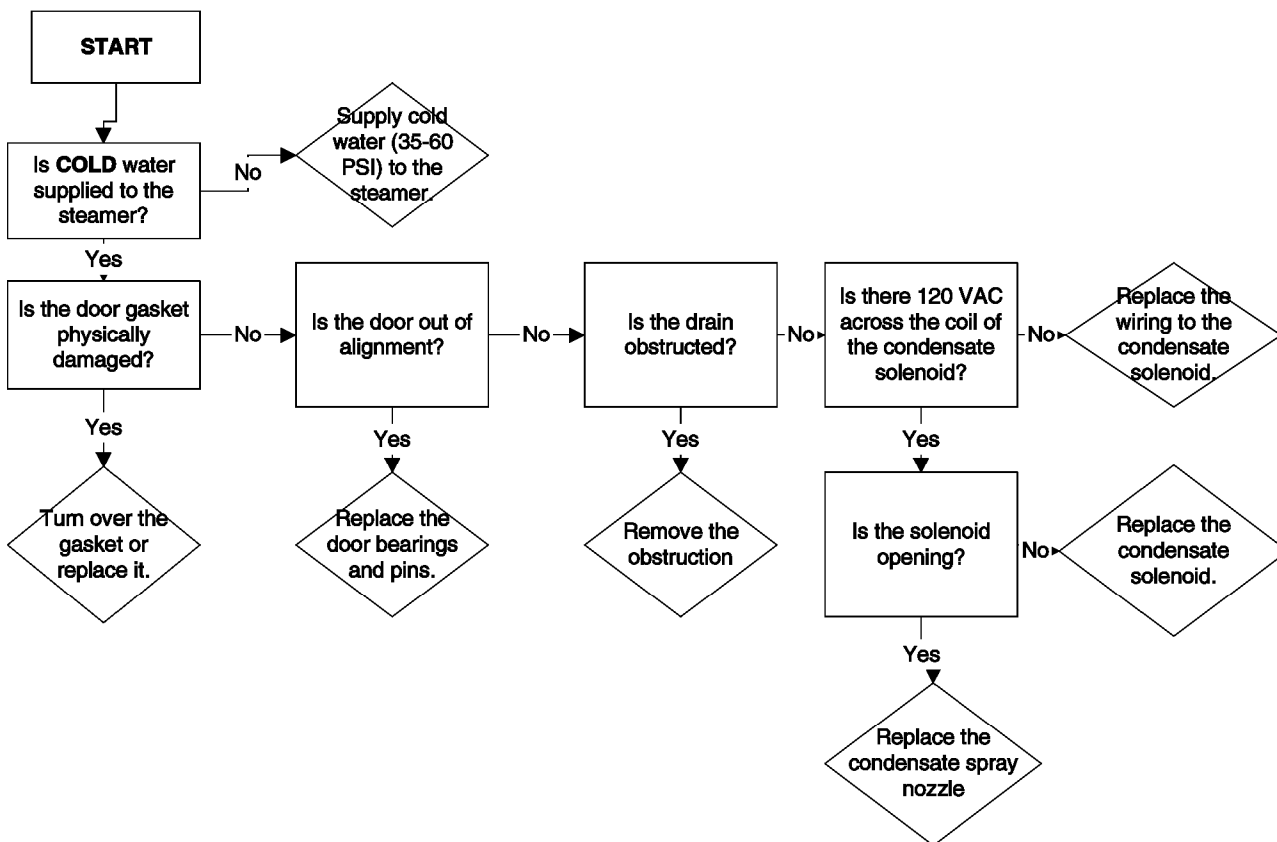
Yes

Replace the intermittent blowdown timer.

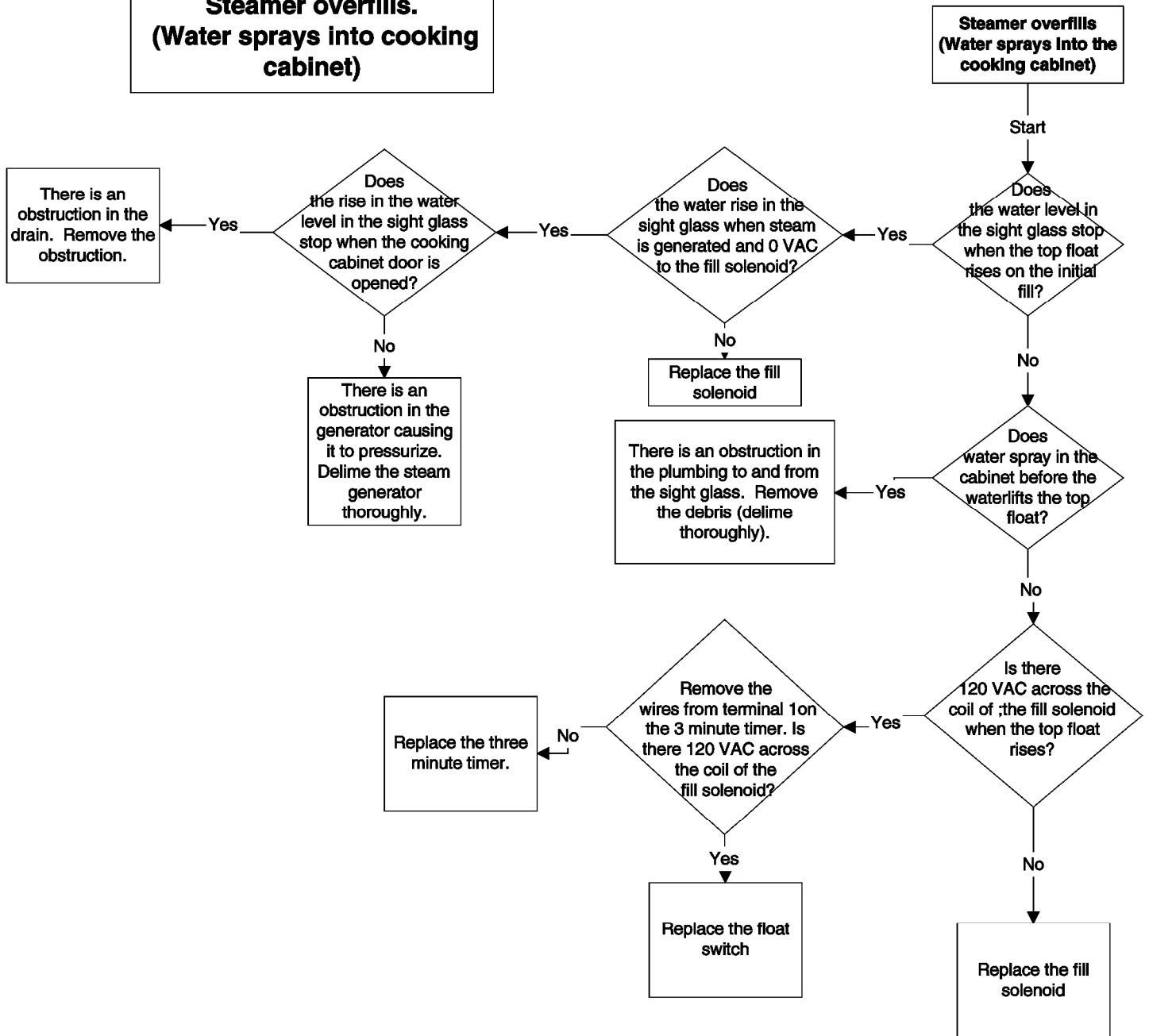
**PROBLEM:
21CGA5
Electronic timer displays "PAUS" and won't count down**

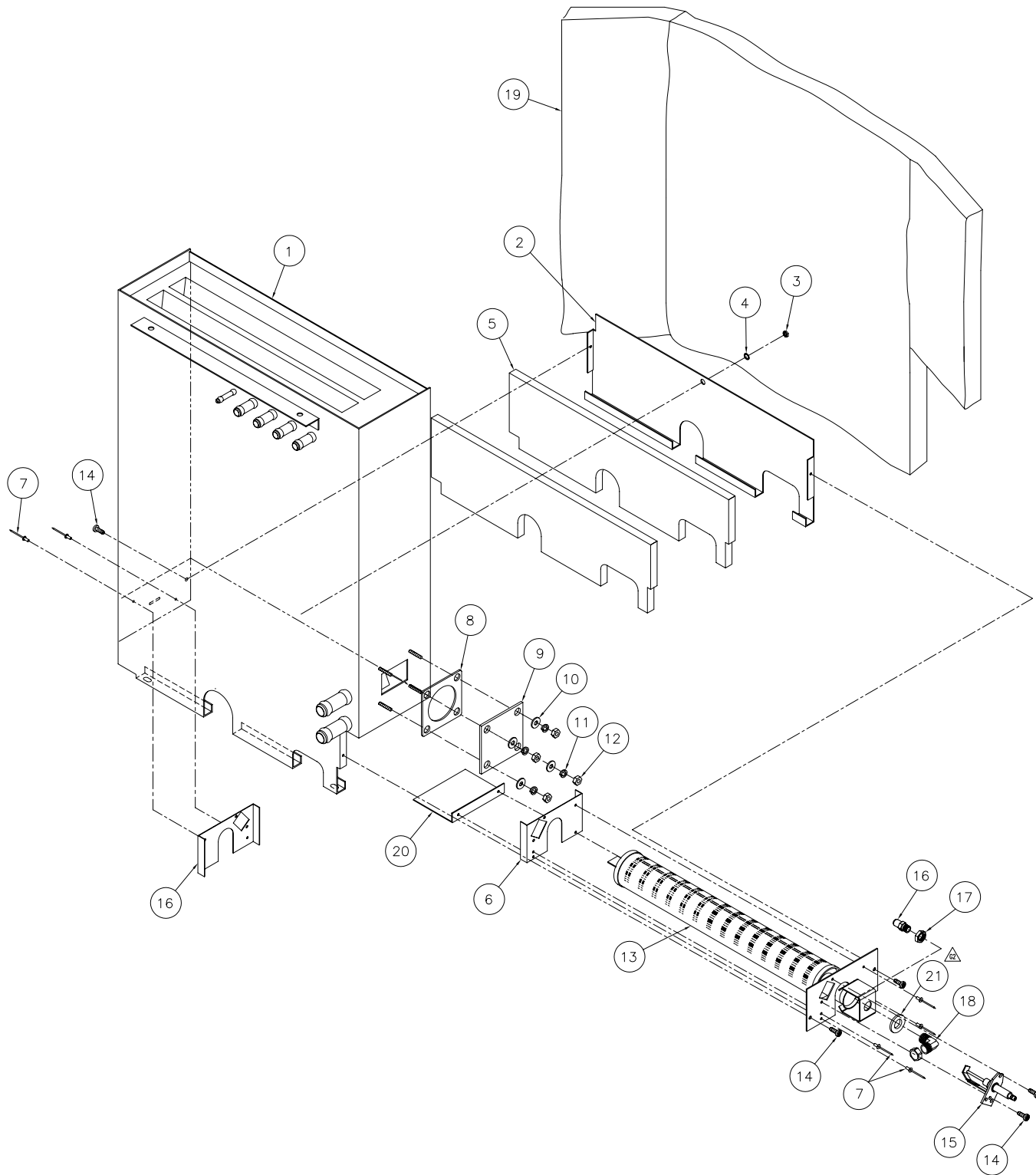


**PROBLEM:
21CGA5
Steam leaks around the door.**

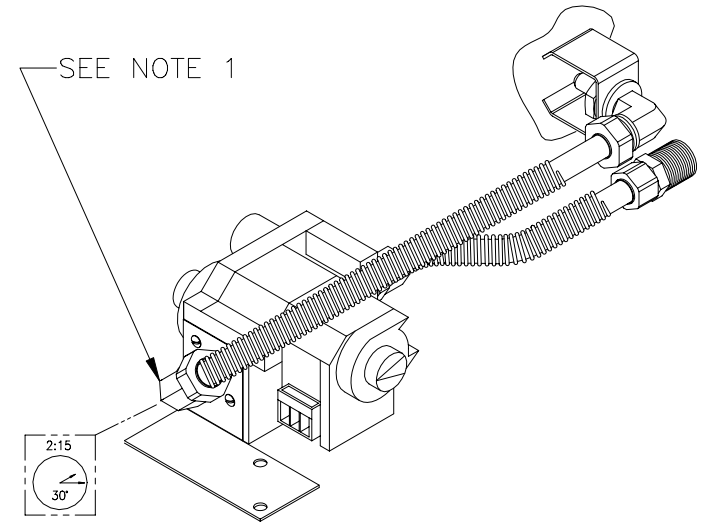
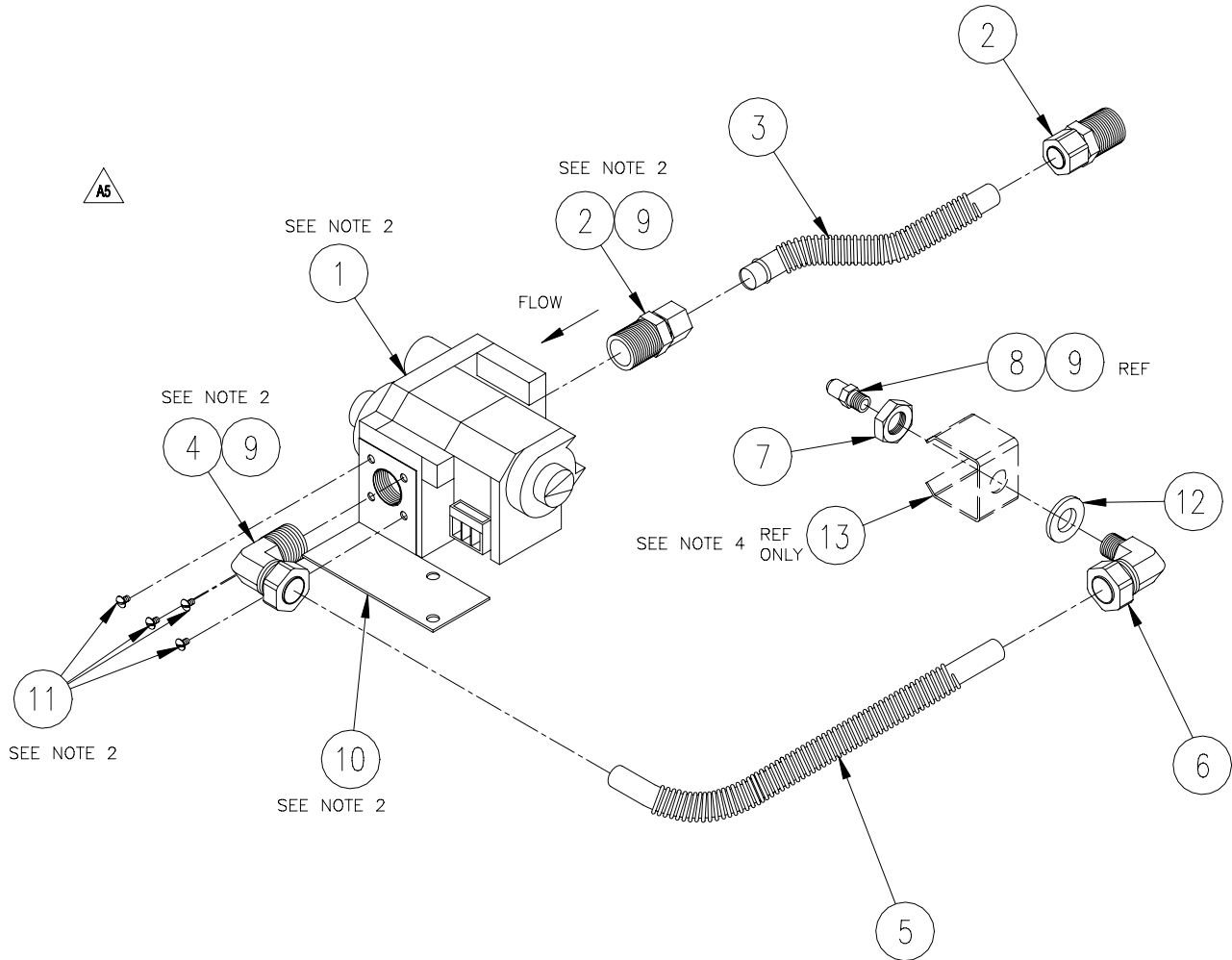


**PROBLEM:
21CGA5
Steamer overfills.
(Water sprays into cooking cabinet)**





| | | | |
|----|---|---------|--|
| 21 | - | 100539 | WASHER, 0.563 ID |
| 20 | 1 | 111146 | BAFFLE, BURNER, 21CGA5 |
| 19 | 1 | 106408 | INSULATION, GENERATOR WRAP |
| 18 | - | 106459 | FITTING, COMPRESSION, 1/2 T x 1/4-18 NPT, 90°, MOD |
| 17 | - | 106460 | NUT, 1/4-18 NPT, BRASS |
| 16 | - | 1064021 | ORIFICE, #41 DRILL, LP GAS |
| 16 | - | 106402 | ORIFICE, #21 DRILL, NATURAL GAS |
| 15 | - | 300092 | ELECTRODE, REVERSED, COMBINATION IGNITOR/SENSOR |
| 14 | 5 | 106126 | SCREW, TORX, 8-32 x 1/2 |
| 13 | - | 106582 | BURNER, WELD ASSEMBLY |
| 12 | 4 | 14618 | NUT, HEX, 1/4-20 |
| 11 | 4 | 23105 | WASHER, LOCK, 1/4, SST |
| 10 | 4 | 23116 | WASHER, FLAT, 1/4 ID x 5/8 OD |
| 9 | 1 | 104614 | COVER, BLOCK-OFF |
| 8 | 1 | 07128 | GASKET, HEATER |
| 7 | 6 | 18358 | RIVET, 1/8 DIA., FLUSH BREAK, SST |
| 6 | 2 | 106362 | BRACKET, SIDE, INSULATION SUPPORT |
| 5 | 2 | 106360 | INSULATION, CUT, COMBUSTION CHAMBER |
| 4 | 1 | 23114 | WASHER, LOCK, INT. TOOTH, #10 |
| 3 | 1 | 14659 | NUT, HEX, 10-24 |
| 2 | 1 | 106361 | BRACKET, REAR, INSULATION SUPPORT |
| 1 | 1 | 106407 | GENERATOR ASSY, WELD, SC 5.1 GAS |



ASSEMBLED VIEW

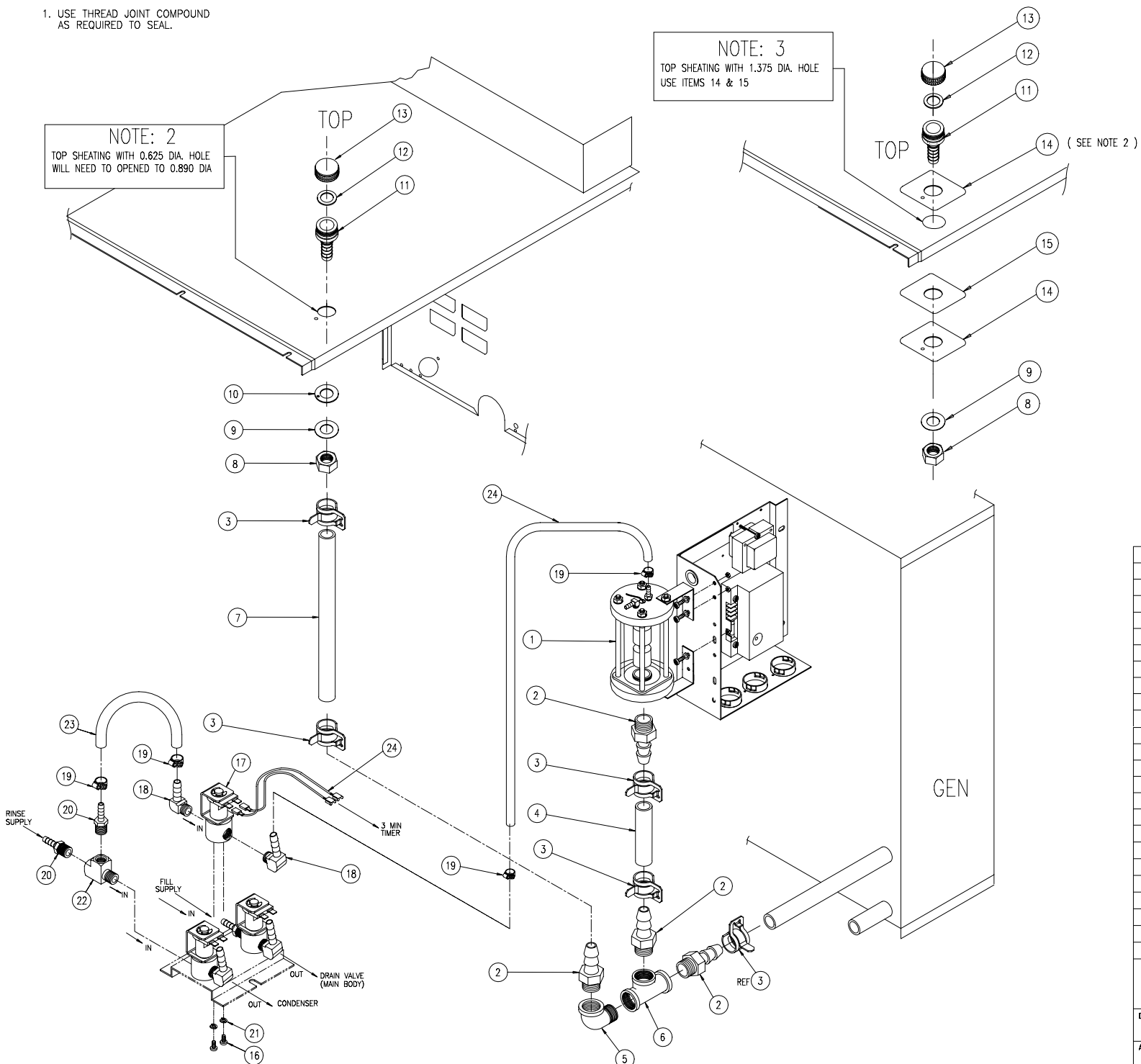
| NOT SHOWN | QTY | PART NO. | DESCRIPTION |
|-----------|-----|----------|---|
| REF ONLY | 14 | 2 | 14672 NUT, HEX, 10-32, LOCKING |
| | 13 | - | 106582 BURNER, WELD ASSEMBLY, H.L. W/BRACKET |
| | 12 | 1 | 100539 WASHER, 9/16 ID X 1 1/16 OD |
| | 11 | 4 | 19156 SCREW, ROUND HD SLOTTED 8-32 X 3/4, ZINC PLTD |
| | 10 | 1 | 111099 BRACKET, GAS VALVE MTG, 21CGA5 |
| | 9 | A/R | 00934 SEALANT, PIPE DOPE |
| | - | - | 107531 ORIFICE, NAT, 800'-10000', #27 DRILL, 21CGA5 |
| | - | - | 107534 ORIFICE, NAT, 600'-8000', #25 DRILL, 21CGA5 |
| | - | - | 107530 ORIFICE, NAT, 400'-6000', #23 DRILL, 21CGA5 |
| | - | - | 107527 KIT, TURKEY BASKET QTY 1, ROTISSERIE |
| | 8 | - | 106402 ORIFICE, NAT, UP TO 2000' #21 DRILL, 21CGA5 |
| | 7 | 1 | 106460 NUT, 1/4 NPT, BRASS |
| | 6 | 1 | 106459 FITTING, COMP. 1/2 T X 1/4 NPT, 90° |
| | 5 | 1 | 111101 GAS LINE, FLEXIBLE, 1/2 X 13.000 SST |
| | 4 | 1 | 06205 FITTING, COMP. 1/2 T X 1/2 WPT, 90° |
| | 3 | 1 | 111100 GAS LINE, FLEXIBLE, 1/2 X 7 SST |
| | 2 | 2 | 06204 FITTING, COMP. 1/2 T X 1/2 WPT, STR |
| | 1 | 1 | 106400 GAS VALVE, NATURAL |

NOTE:

1. USE THREAD JOINT COMPOUND AS REQUIRED TO SEAL.

NOTE: 2
TOP SHEATING WITH 0.625 DIA. HOLE WILL NEED TO OPENED TO 0.890 DIA

NOTE: 3
TOP SHEATING WITH 1.375 DIA. HOLE USE ITEMS 14 & 15



EXPLODED VIEW

KIT P/N 110129

| LET. | REVISIONS | DATE | BY |
|------|-----------|------|----|
|------|-----------|------|----|

| 24 | 1 | 300013 | HARNES, WIRE, RINSE VALVE |
|------|-----|----------|--|
| 23 | 1 | 105850 | TUBING, NT-80, 1/4 X 6 |
| 22 | 1 | 106663 | FITTING, MALE RUN, 1/4 MPT X 1/4 FPT |
| 21 | 2 | 102641 | WASHER, SPLIT LOCK, # 8 SST |
| 20 | 2 | 104381 | FITTING, HOSE, 1/4 H X 1/4 MPT |
| 19 | 4 | 106526 | CLAMP, HOSE, 3/8 X 5/8 X 5/16 W |
| 18 | 2 | 105786 | FITTING, HOSE, 1/4 H X 1/4 MPT, 90° |
| 17 | 1 | 22218 | SOLENOID VALVE |
| 16 | 2 | 19114 | SCREW,TRUSS HD,# 8-32 X 0.375 |
| 15 | 2 | 108723 | DESCALER PORT CONVERSION MTC. GASKET |
| 14 | 2 | 108724 | DESCALER PORT CONVERSION MTC. PLATE |
| 13 | 1 | 108031 | CAP, HOSE NUT |
| 12 | 1 | 108034 | WASHER |
| 11 | 1 | 109642 | FITTING DESCALER |
| 10 | 1 | 109646 | GASKET |
| 9 | 1 | 109645 | WASHER |
| 8 | 1 | 109644 | NUT, HEXJAM |
| 7 | 1 | 08511 | HOSE, STEAM, WHITE EPDM, FDA 3/4 X 14.000 LG |
| 6 | 1 | 20206 | TEE, 3/4 , BRASS |
| 5 | 1 | 05231 | ELL, STREET, 90°, 3/4 BRASS |
| 4 | 1 | 08511 | HOSE, STEAM, WHITE EPDM, FDA 3/4 X 4.500 LG |
| 3 | 4 | 107312 | CLAMP, HOSE, METAL TENSION, 1-1/8 OD HOSE |
| 2 | 4 | 06240 | FITTING, 3/4 H X 3/4 MPT, BRASS |
| 1 | 1 | 105877 | FLOAT ASSEMBLY, STEAMCRAFT |
| ITEM | QTY | PART NO. | DESCRIPTION |

| TOLERANCES (EXCEPT AS NOTED) | | | |
|--|---|---------------------------------|-------------|
| CLEVELAND RANGE INC. | | | |
| 1333 East 179th St. Cleveland, Ohio 44110-2574 | | | |
| DECIMAL ± .0005 | SCALE NA | DRAWN BY VDS | APPROVED BY |
| ANGULAR ± 1° | TITLE INSTRUCTION, KIT, CONVERT, PROBE TO FLOAT & 3/4 DESCALER S/C 5.1, GAS | | |
| AC | DATE 9-21-00 | DRAWING NO. C-260AUC (Sht 1of2) | REV A |

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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.