Service & Parts Manual

Convotherm Combination Oven-Steamer

MODELS: Gas 10.10 and 6.20

OGS-10.10

OGS-6.20

OGB-10.10

OGB-6.20

Cleveland

Enodis

1333 East 179th St., Cleveland, Ohio, U.S.A. 44110

Phone: (216) 481-4900 Fax: (216) 481-3782
Visit our web site at www.clevelandrange.com

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FOR THE INSTALLER

FOR YOUR SAFETY
Do not store or use gasoline or other flammable vapors or liquids in the vicinity of this or any other appliance.

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Read the installation, operating and maintenance instructions thoroughly before installing or servicing this equipment.

NOTICE

Post instructions to be followed if the user smells gas.
Display the instructions in a prominent location.
All users of this equipment must understand the instructions.
Obtain the instructions from the local gas supplier.
Failure to follow the instructions if there is a gas leak can cause death, injury, and/or property damage.

⚠ WARNING

Disconnect power at the main external power switch before servicing or repairing a Combi. Failure to disconnect power can result in death, injury, and property damage.

ALL SERVICE MUST BE PERFORMED BY A QUALIFIED CLEVELAND RANGE AUTHORIZED TECHNICIAN.

⚠ WARNING

Do not connect the Combi Oven-Steamer drain connection to any drain material that cannot sustain 140^{o} Fahrenheit. Using drain material that cannot withstand 140^{o} Fahrenheit can result in injury, equipment damage, and property damage.

This Installation Manual is a part of your new Combi Oven-Steamer. You must keep and maintain it for the entire life span of your Combi and pass it on to the next owner of the Combi.

KEEP THIS MANUAL FOR REFERENCE

This manual may be subject to new technical developments, modifications, and unforeseen errors.

DO NOT OPERATE OR ATTEMPT TO OPERATE THIS APPLIANCE OR ANY ACCESSORIES WITHOUT READING COMPLETELY AND FULLY UNDERSTANDING THIS MANUAL

For caster equipped Combis: Per separate instructions, connect the strain relief (restraining device) and complete any remaining installation procedures BEFORE starting the Combi.

Convotherm by Cleveland Combi Oven-Steamers are intended for other than household use.

CONVOTHERM by Cleveland STATEMENT OF POLICIES

LIMITED WARRANTY

CONVOTHERM by Cleveland products are warranted to the original purchaser to be free from defects in materials and work-manship under normal use and service for the standard warranty period of one year from date of installation or 18 moths from date of shipment, which ever comes first.

CONVOTHERM by Cleveland agrees to repair or replace, at its option, f.o.b. factory, any part which proves to be defective due to defects in material or workmanship during the warranty period, providing the equipment has been unaltered, and has been PROPERLY INSTALLED, MAINTAINED, AND OPERATED IN ACCORDANCE WITH THE CONVOTHERM by Cleveland OWNER'S MANUAL.

CONVOTHERM by Cleveland agrees to pay any FACTORY AUTHORIZED EQUIPMENT SERVICE AGENCY (within the continental United States, and Hawaii) for reasonable labor required to repair or replace, at our option, f.o.b. factory, any part which proves to be defective due to defects in material or workmanship, during the labor warranty period. This warranty includes travel time not to exceed two hours and mileage not to exceed 50 miles (100 miles round-trip), BUT DOES NOT INCLUDE POST START-UP, TIGHTING LOOSE FITTINGS, MINOR ADJUSTMENTS, MAINTENANCE, CLEANING OR DESCALING.

The standard labor warranty allows factory payment of reasonable labor required to repair or replace such defective parts. CONVOTHERM by Cleveland will not reimburse the expense of labor required for the repair or replacement of parts after the standard warranty period, unless an Extended Labor Warranty Contract has been purchased to cover the equipment for the balance of the warranty period from the date of equipment installation, start-up, or demonstration.

PROPER INSTALLATION IS THE RESPONSIBILITY OF THE DEALER, THE OWNER-USER, OR INSTALLING CONTRACTOR, AND IS NOT COVERED BE THIS WARRANTY. Many local codes exist, and it is the responsibility of the owner and installer to comply with these codes. Cleveland Range equipment is built to comply with applicable standards for manufacturers, including UL, AGA, NSF, ASNE/Ntl. Bd, CSA, CGA, ETL and others.

BOILER (Steam Generator) MAINTENANCE IS THE RESPONSIBILITY OF THE OWNER-USER AND IS NOT COVERED BY THIS WARRANTY. The use of good quality feed water is the responsibility of the Owner-User (see Water Quality Recommendations below). THE USE OF POOR QUALITY FEED WATER WILL VOID EQUIPMENT WARRANTIES. Boiler maintenance supplies, including boiler hand gaskets, are not warranted beyond the first 90 days after the date the equipment is placed into service. Preventive maintenance records must be available showing descaling per applicable Cleveland Operator Manual for Boiler Proration Program considerations.

WATER QUALITY RECOMMENDATIONS (NEW)

TDS……50-125 ppm	pH Factor……..7.0-8.5
Total Alkalinity…….50-100 ppm	Free Chlorine……< 0.1 ppm
Silica……..<13 ppm	Hardness…….50-100 ppm (3,6gpg)
Chloride…….< 25ppm	Dynamic Water Pressure 35-80 psi

The foregoing shall constitute the sole and exclusive remedy of original purchaser and the full liability of CONVOTHERM by Cleveland for any breach of warranty. THE FOREGOING IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER WRITTEN, ORAL. OR IMPLIED, INCLUDING ANY WARRANTY OF PERFORMANCE, MERCHANTABILITY, OR FITNESS FOR PURPOSE, AND SUPERSEDES AND EXCLUDES ANY ORAL WARRANTIES OR REPRESENTATIONS, OR WRIT-TEN WARRANTIES OR REPRESENTATIONS, NOT EXPRESSLY DESIGNATED IN WRITING AS A "WARRANTY" OR "GUARANTEE" OF CLEVELAND RANGE MADE OR IMPLIED IN ANY MANUAL, LITERATURE, ADVERTISING BROCHURE OR OTHER MATERIALS.

CONVOTHERM by Cleveland liability on any claim of any kind, including negligence, with respect to the goods or services covered hereunder, shall in no case exceed the price of the goods or services, or part thereof, which gives rise to the claim. IN NO EVENT SHALL CONVOTHERM by Cleveland BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, OR ANY DAMAGES IN THE NATURE OF PENALTIES.

LIMITED EXTENDED WARRANTY COVERAGE

The purchase of a Limited Extended Warranty Contract extends the standard warranty coverage to the purchased period of time (one to two years) from the date of installation, start-up, or demonstration, whichever is sooner.

*An additional two years Parts and Labor Warranty can be purchased with each piece of Cleveland equipment for an additional 3.5% of the List Price per year. The 3.5% of list price charge will be the net invoice amount for each year of extended warranty purchased.

- Extended warranty must be purchased at the same time the equipment is purchased.
- Extended Warranty has the same exclusions as stated in our standard warranty.

GENERAL INFORMATION ABOUT COMBIS

A. PRODUCT INFORMATION

Cleveland Range, LLC assigns two product identification numbers to each Combi: a model number and a serial number. The model number identifies the product characteristics. The serial number identifies the individual Combi.

1. Model Number

a. This manual covers the installation of the OEB and OES model gas powered Combis.

b. Model Number Key: “O” stands for the Combi series Oven, “E” or “G” designates Electric or Gas. “B” designates Steam Generator, and “S” designates Spritzer. The first number designates the number of shelves in the oven rack. The second number is either “.10” for 12” X 20” steam table pans or “.20” for 18” X 26” full size sheet pans. For further information, contact your Convotherm by Cleveland sales representative or Cleveland Range.

2. Serial Number and Equipment Record

During manufacture, Combis are assigned individual serial numbers. Please provide the following information when you contact Cleveland Range or a qualified Cleveland Range authorized service representative:

Serial Number_____
(Write the Serial Number of your Combi here.)

Model Number_____
(Write the Model Number of your Combi here.)

3. Product Information Plate

The Product Information Plate on the left side of the Combi lists the model, serial number, gas, electric, and wiring requirements of the Combi. Figure 1-1 illustrates a typical Product Information Plate.

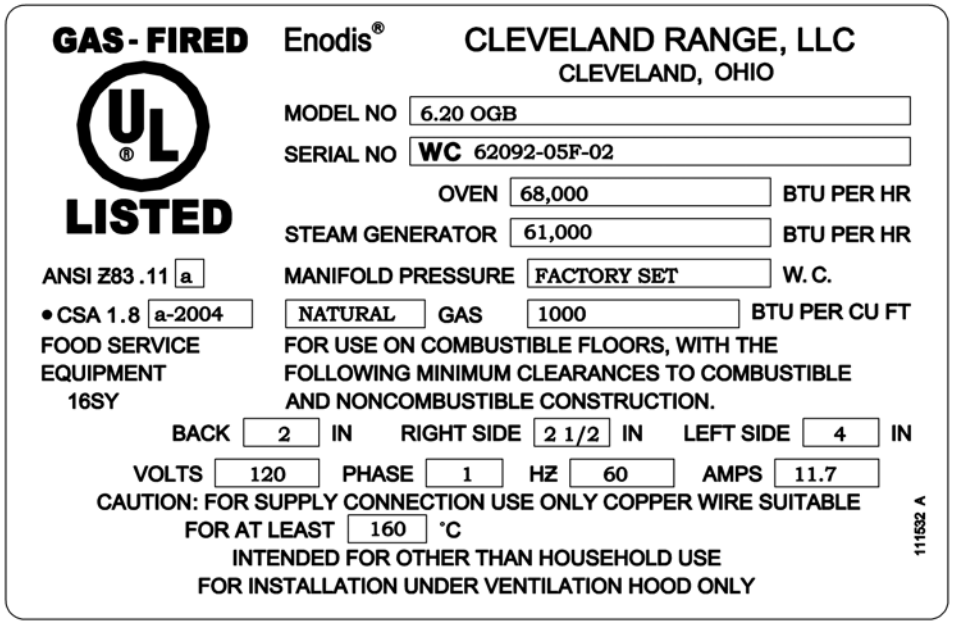

Figure 1-1
Typical Product Information Plate

INSTALLATION INSTRUCTIONS

A. GENERAL

This equipment should be installed only by qualified, professional plumbers, pipe fitters, and electricians.

1. The installation of this Combi must conform with:
   a. The National Fuel Gas Code, ANSI Z223.1 / NFPA 54 (latest edition), or the Natural Gas and Propane Installation Code CSA B1 49.1 as applicable.
   b. The National Electrical Code, ANSI/NFPA 70 (latest edition), or the Canadian Electrical Code, CSA C22.2 as applicable.
   c. The Food Service Sanitation Manual of the Food and Drug Administration (FDA).
   d. All applicable national, state, and local laws, codes, and regulations.
2. This equipment is to be installed to comply with the applicable federal, state, or local plumbing codes.
3. Installation instructions must be read in their entirety before starting installation of a Combi.
4. Install the Combi according to the policies and procedures outlined in this manual.

⚠ DANGER

Improper installation, adjustment, alteration, service, or maintenance of a Combi, or installation of a damaged Combi can result in DEATH, INJURY, EQUIPMENT DAMAGE, and void the warranty.
NEVER install damaged Combis.
ALWAYS have qualified Cleveland Range authorized personnel install and service Combis.

5. Inspect the Combi for shipping damage.
   a. Check carton and packing for shipping damage.
   b. Note any damage on the shipping paperwork as soon as the carton arrives.
   c. Unpack the Combi and check for shipping damage.
   d. If the Combi is damaged or damage is suspected:
      1) Inform your dealer at once.
      2) Inform Cleveland Range in writing within 3 days.
      3) Submit a Damage Claim to the Shipper.

B. INSTALLATION OF THE COMBI – General Instructions

General Instructions:

1. Select the Combi's operating location.
2. Complete the water, drain, and electric lines before positioning and leveling the Combi.
3. Position and level the Combi.
4. Connect the utility lines <u>after</u> positioning and leveling the Combi.
5. Call Cleveland Range at 216-481-4900 for the Free Start-Up Program's Performance Checkout.
6. After Setup and Performance Checkout, the Combi should provide years of reliable operation.

⚠ DANGER

Improper lifting can result in DEATH, INJURY, AND EQUIPMENT DAMAGE.
Use enough workers with training and experience lifting heavy equipment to place Combis on supporting surfaces, and lift and handle Combis and acessories.

⚠ DANGER

Operating an out of level Combi can cause DEATH, INJURY, and EQUIPMENT DAMAGE.
Combis must be level both front-to-back and side-to-side in all installations.
NEVER operate an out of level Combi.
If a Combi is suspected to be out of level, shut it down at once and call you qualified Cleveland Range authorized service agency at once.

⚠ WARNING

All clearance requirements above, below, and around the Combi are the same for non-combustible locations as for combustible locations.
Failure to maintain required clearances and additional distances as needed can result INJURY and EQUIPMENT DAMAGE.
Consult manufacturers' literature, and sales and service agencies as needed.

C. SPECIAL INSTRUCTIONS FOR CASTER EQUIPPED COMBI STANDS AND COMBIS

1. Read all instructions before beginning installation.
2. Level the floor if needed.
3. **NOTE:** Combis on caster-equipped stands have less adjustment for level than adjustable foot equipped stands.
4. The front wheels of caster-equipped stands and Combis have locks. Check the caster locks for function and position before installation.
5. Follow the separate instructions included with the Stand, Stacking Kit, or Caster Kit.
6. Make sure the Stand, Stacking Kit, or Caster Kit matches the Combi(s).
7. Use only genuine Cleveland Range Stands, Stacking Kits, Caster Kits, and replacement parts.
8. Use of Stands, Stacking Kits, Caster Kits, and replacement parts other than genuine Cleveland Range Stands, Stacking Kits, and Caster Kits and replacement parts can result in injury and / or catastrophic equipment failure, and voids the Warranty.
9. The appliance must be secured to building structure, to prevent any strain on the utility connections, and to help reduce the risk of electric shock.
10. The strain relief (restraining device) must be installed to limit the movement of the appliance without depending on the connector and the quick-disconnect device or its associated piping (gas, water, or electric). See separate instructions for attachment location and other details.
11. Connect the strain relief (restraining device) BEFORE starting the Combi
12. If the strain relief (restraining device) must be disconnected, it must be reconnected after the Combi has been returned to its originally installed position BEFORE restarting the Combi.
13. Prepare the installation location as described in the Combi Installation Manual.
14. For GAS (OGB, OGS) Combis: The installation of the gas supply shall be made with a connector that complies with the Standard for *Connectors for Movable Gas Appliances*, ANSI Z21.69 / CSA 6.16, and a quick disconnect device that complies with the Standard for *Quick Disconnect Devices for Use With Gas Fuel*, ANSI Z21.41 / CSA 6.9.
15. The appliance shall be installed using flexible conduit.
16. Mechanically secure the flexible conduit to the Combi's electrical access hole.

Cleveland
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COMBI OVEN-STEAMER

CONVOTHERM by Cleveland

Featuring the
"Advanced Closed System +3"

GAS Fired – with Steam Generator

MODEL: ☐ *OGB-10.10*

CAPACITY: *TEN (10) – 12" by 20" by 2 1/2" steam table pans*

ITEM NUMBER _____

JOB NAME / NUMBER _____

Cooking Modes:

- Hot Air
- Steam
- Combi
- Retherm
- "Cook & Hold"
- "Delta T" slow cooking
- "Crisp & Tasty"

Cleveland Standard Features:

- "**Advanced closed system**" with "**Crisp & Tasty**" de-moisturizing feature
- High efficiency, power burner heating system for hot air and steam generator saves energy and provides fast heat up times
- Fully insulated steam generator and cooking compartment for maximum energy savings
- Polished cooking compartment with coved corners for easy cleaning
- Three (3) 12" x 20" wire shelves
- Hinged fan guard and hinged removable pan racks
- Two (2) speed auto reversing convection fan for even heat distribution
- Space saving, easy to close "**Disappearing Door**"
- Door latch with safety vent position and wear-free door switch
- Vented, double glass door with integrated door stop and self draining condensate drip pan
- Easy to change, press-fit door seal
- Oven light with shock resistant safety glass
- Multipoint core temperature probe
- Easy to use electronic controls for all operational functions
- Self diagnostic system with full text message display
- Easy to understand menu icons with bright graphics display
- User friendly selector dial
- Exclusive "**Smart Key**" for selecting option settings
- Digital controls for temperature, time and core probe settings
- Eight (8) "**Press & Go**" one step, recipe start buttons
- Cook book library for up to 250 stored recipe programs, each recipe capable of 20 steps
- RS 232 connection for controlling one unit with a PC (personal computer)
- Memory module automatically saves unit settings and recipes
- Manual program override feature for operational settings
- Smooth action hand shower for compartment cleaning

Gas Fired Steam Generator

- Quiet, high efficiency, power burner heating system
- Built-in automatic rinse system
- Automatic fill and water level control
- Automatic generator drain

Short Form Specifications

*Shall be Cleveland Model: OGB-10.10 Combination Convection Oven / Steamer with simple to operate electronic programmable controls for Hot Air, Convection Steam, and Combination cooking modes, "**Cook & Hold**" and "**Delta T**" slow-cooking capabilities, "**Advanced Closed System**" with "**Crisp & Tasty**" de-moisturizing feature. Multiple cooking stage programs, stored recipe library, multipoint core temperature probe, "**Press & Go**", one-step recipe start buttons, "**Smart Key**" for selecting option settings, Two (2) speed auto reversing convection fan. Quiet, high efficiency power burner heating system; steam generator with automatic drain. "**Disappearing Door**". Capacity for ten (10) 12" x 20" x 2 1/2" pans.*

Options and Accessories

- ❒ ConvoClean automatic compartment washing system
- ❒ PC-HACCP software for establishing "HACCP controls" and automatic documentation of the cooking process
- ❒ Equipment stand(s)
- ❒ Equipment stand(s) with Casters
- ❒ Stacking kit for mounting one (1) OGB-6.10 model on top of one (1) OGB-10.10
- ❒ Lockable cover over operating controls for prison installations
- ❒ USB or RS 485 connection for networking and controlling up to 32 units with a personal computer
- ❒ Propane gas option
- ❒ Flue diverter
- ❒ Plate rack for banquet operations
- ❒ Plate rack cart
- ❒ Thermal cover for plate or pan rack
- ❒ ConvoClean compartment cleaning solution
- ❒ ConvoCare concentrate for compartment rinse cycle
- ❒ "Dissolve" generator descaling solution
- ❒ Chicken Grill Rack
- ❒ 12" x 20" Wire Baskets for frying products
- ❒ Additional 12" x 20" Wire Shelves

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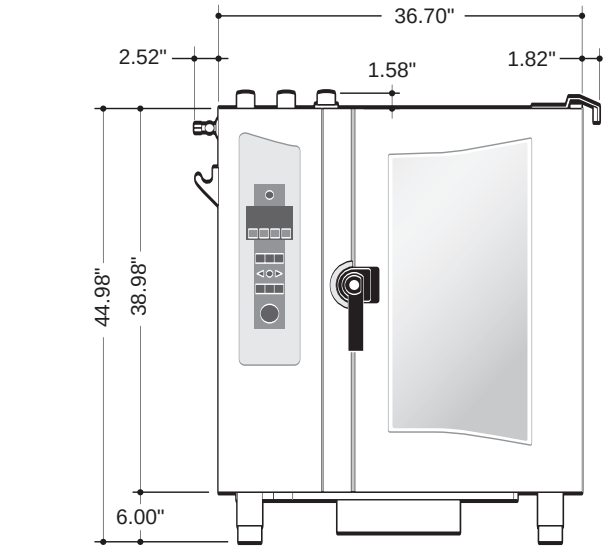
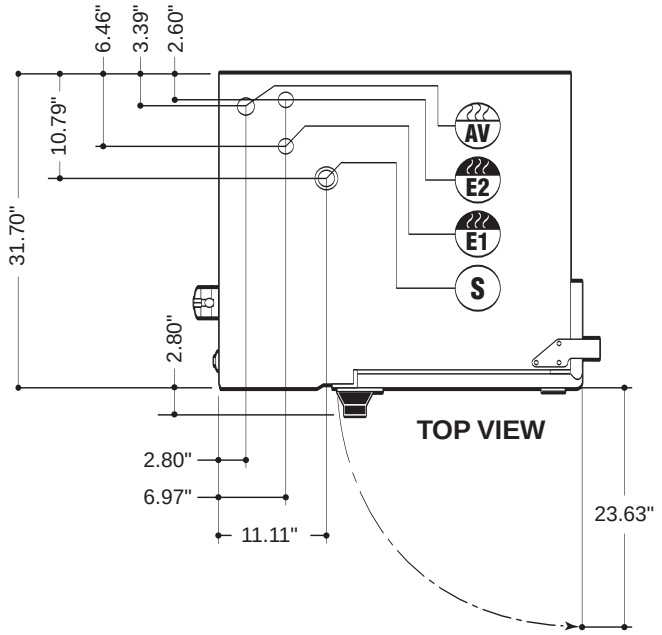
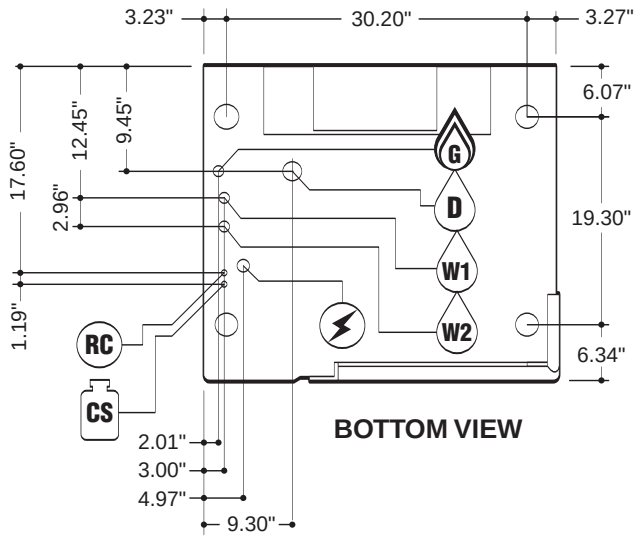


FRONT VIEW



TOP VIEW



BOTTOM VIEW

The "Advanced Closed System" offers the following advantages:

- Saves energy
- Automatic moisture level adjustment
- Low heat and steam emission to the kitchen
- Automatically regulated steam injection
- Enables immediate change into the steam mode
- "Crisp & Tasty" demoisturizing function

Model: OGB-10.10

Pan Capacity [Unit has 11 slide rails at 2.64" (67mm) apart]**:**
10 (12" x 20" x 2 1/2") steam table pans **11** (12" x 20" x 1") steam table pans
11 (13" x 20") half size wire racks **11** (13" x 18") half size sheet pans
10 (12" x 20") frying baskets - (**no wire racks needed**)

For Banquet Operations: Optional Plate Rack holds 32 plates

Unit Dimensions: Width - 41.04", Depth - 34.50", Height - 45.68"

Shipping Dimensions: (including packaging) Width - 47", Depth - 41", Height - 54"

Shipping Weight: 475 Lbs

Required Clearances: Rear - 2", Left Side - 4", Right Side - 2 1/2"
- Allow for sufficient distance if a "high heat source" (i.e. Broiler) is located next to the unit.
- Allow for sufficient clearance on left side for service access (contact the factory service department for recommendations).
- Installation must comply with all local fire and health codes.

Agency Approvals: UL - Gas, UL - Sanitation (NSF Standards)

Electrical Requirements: 120 volt, 11.7 amps, 60 Hz, single phase

Gas Connection: 3/4" NPT
Gas Type: Natural Gas (Propane optional)
Gas Flow Pressure: Natural Gas - Min. 5.5" WC / Max. 14" WC
Propane Gas - Min. 11" WC / Max. 14" WC
Total Connected Load: 75,700 BTU (68,000 BTU Propane)
Steam Generator: 68,200 BTU (61,000 BTU Propane)
Hot Air: 75,700 BTU (68,000 BTU Propane)

Water Connections: Cold Water (drinking water quality)
Flow Pressure: 30 - 60 PSI
Water Inlets: 3/4" GHT-F (Female Garden Hose Connection)
W1 Treated Water for Steam Generator
W2 Untreated Water for Condenser and Hand Shower

Drain Connection: 2" Tube

Venting: Exhaust Hood required
E1 Gas Exhaust for Hot Air Heating
E2 Gas Exhaust for Steam Generator
AV Air Vent

***Connection for Cleaning Solution**

***Connection for Rinse Cycle**

Low Pressure Safety Valve

*****Available as an option

NOTES:
Cleveland Range reserves right of design improvement or modification, as warranted.
Many regional, state and local codes exist and it is the responsibility of the owner and installer to comply with the codes.
Cleveland Range equipment is built to comply with applicable standards for manufacturers.

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Cooking Modes:

- ■ Hot Air
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- ■ "Crisp & Tasty"

Cleveland Standard Features:

- ■ "**Advanced closed system**" with "**Crisp & Tasty**" de-moisturizing feature
- ■ High efficiency, power burner heating system
- ■ Fully insulated cooking compartment for maximum energy savings
- ■ Polished cooking compartment with coved corners for easy cleaning
- ■ Three (3) 12" x 20" wire shelves
- ■ Hinged fan guard and hinged removable pan racks
- ■ Two (2) speed auto reversing convection fan for even heat distribution
- ■ Space saving, easy to close "**Disappearing Door**"
- ■ Door latch with safety vent position and wear-free door switch
- ■ Vented, double glass door with integrated door stop and self draining condensate drip pan
- ■ Easy to change, press-fit door seal
- ■ Oven light with shock resistant safety glass
- ■ Multipoint core temperature probe
- ■ Easy to use electronic controls for all operational functions
- ■ Self diagnostic system with full text message display
- ■ Easy to understand menu icons with bright graphics display
- ■ User friendly selector dial
- ■ Exclusive "**Smart Key**" for selecting option settings
- ■ Digital controls for temperature, time and core probe settings
- ■ Eight (8) "**Press & Go**" one step, recipe start buttons
- ■ Cook book library for up to 250 stored recipe programs, each recipe capable of 20 steps
- ■ RS 232 connection for controlling one unit with a PC (personal computer)
- ■ Memory module automatically saves unit settings and recipes
- ■ Manual program override feature for operational settings
- ■ Smooth action hand shower for compartment cleaning
- ■ Injection system for steam

Options and Accessories

- ❒ ConvoClean automatic compartment washing system
- ❒ PC-HACCP software for establishing "HACCP controls" and automatic documentation of the cooking process
- ❒ Equipment stand(s)
- ❒ Equipment stand(s) with Casters
- ❒ Stacking kit for mounting one (1) OGS-6.10 model on top of one (1) OGS-10.10

Short Form Specifications

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- ❒ Lockable cover over operating controls for prison installations
- ❒ USB or RS 485 connection for networking and controlling up to 32 units with a personal computer
- ❒ Propane gas option
- ❒ Flue diverter
- ❒ Plate rack for banquet operations
- ❒ Plate rack cart
- ❒ Thermal cover for plate or pan rack
- ❒ ConvoClean compartment cleaning solution
- ❒ ConvoCare concentrate for compartment rinse cycle
- ❒ "Dissolve" generator descaling solution
- ❒ Chicken Grill Rack
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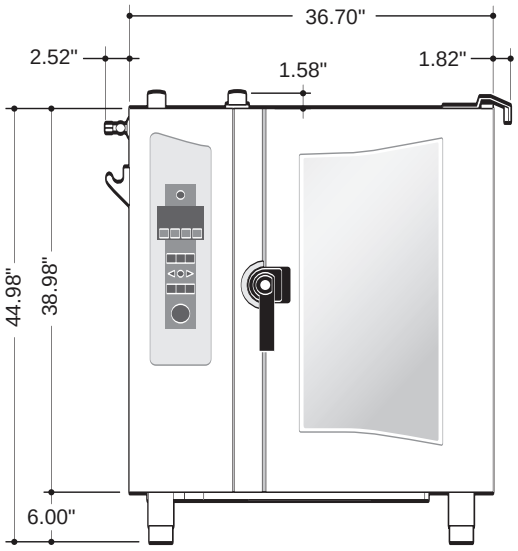
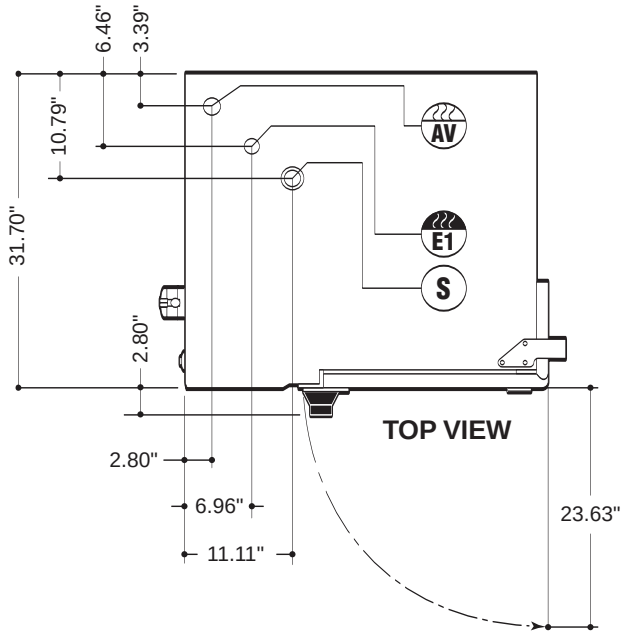
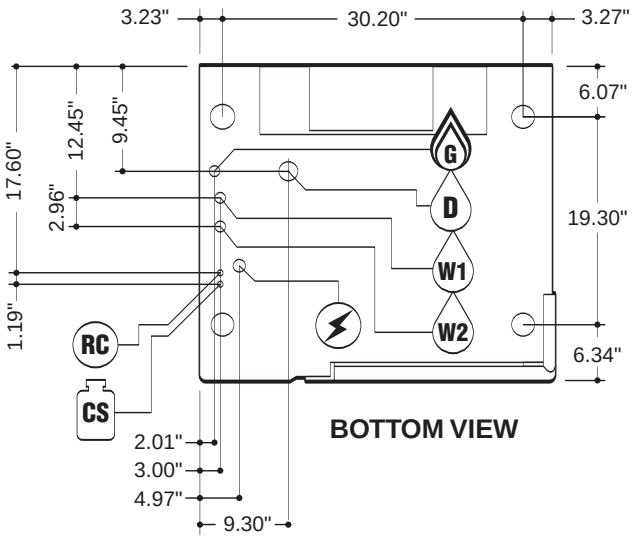


FRONT VIEW



TOP VIEW



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- Allow for sufficient clearance on left side for service access (contact the factory service department for recommendations).
- Installation must comply with all local fire and health codes.

Agency Approvals: UL - Gas, UL - Sanitation (NSF Standards)

Electrical Requirements: 120 volt, 11.7 amps, 60 Hz, single phase
Do not connect to a G.F.I. outlet

Gas Connection: 3/4" NPT
Gas Type: Natural Gas (Propane optional)
Gas Flow Pressure: Natural Gas - Min. 5.5" WC / Max. 14" WC
Propane Gas - Min. 11" WC / Max. 14" WC
Total Connected Load: 75,700 BTU (68,000 BTU Propane)
Hot Air: 75,700 BTU (68,000 BTU Propane)

Water Connections: Cold Water (drinking water quality)
Flow Pressure: 30 - 60 PSI
Water Inlets: 3/4" GHT-F (Female Garden Hose Connection)

W1 Treated Water for Steam Production

W2 Untreated Water for Condenser and Hand Shower

Drain Connection: 2" Tube

Venting: Exhaust Hood required

E1 Gas Exhaust for Hot Air Heating

AV Air Vent

***Connection for Cleaning Solution**

***Connection for Rinse Cycle**

Low Pressure Safety Valve

*****Available as an option

NOTES:
Cleveland Range reserves right of design improvement or modification, as warranted.
Many regional, state and local codes exist and it is the responsibility of the owner and installer to comply with the codes.
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COMBI OVEN-STEAMER

CONVOTHERM by Cleveland

Featuring the
"Advanced Closed System +3"

GAS Fired – with Steam Generator

MODEL: ☐ *OGB-6.20*

CAPACITY: *Seven (7) – 18" by 26" full size sheet pans or Fourteen (14) – 12" by 20" by 2 1/2" steam table pans*

ITEM NUMBER _____

JOB NAME / NUMBER _____

Cooking Modes:

- ■ Hot Air
- ■ Steam
- ■ Combi
- ■ Retherm
- ■ "Cook & Hold"
- ■ "Delta T" slow cooking
- ■ "Crisp & Tasty"

Cleveland Standard Features:

- ■ "**Advanced closed system**" with "**Crisp & Tasty**" de-moisturizing feature
- ■ High efficiency, power burner heating system for hot air and steam generator saves energy and provides fast heat up times
- ■ Fully insulated steam generator and cooking compartment for maximum energy savings
- ■ Polished cooking compartment with coved corners for easy cleaning
- ■ Three (3) 26" x 20" wire shelves
- ■ Hinged fan guard and hinged removable pan racks
- ■ Two (2) speed auto reversing convection fan for even heat distribution
- ■ Space saving, easy to close "**Disappearing Door**"
- ■ Door latch with safety vent position and wear-free door switch
- ■ Vented, double glass door with integrated door stop and self draining condensate drip pan
- ■ Easy to change, press-fit door seal
- ■ Oven light with shock resistant safety glass
- ■ Multipoint core temperature probe
- ■ Easy to use electronic controls for all operational functions
- ■ Self diagnostic system with full text message display
- ■ Easy to understand menu icons with bright graphics display
- ■ User friendly selector dial
- ■ Exclusive "**Smart Key**" for selecting option settings
- ■ Digital controls for temperature, time and core probe settings
- ■ Eight (8) "**Press & Go**" one step, recipe start buttons
- ■ Cook book library for up to 250 stored recipe programs, each recipe capable of 20 steps
- ■ RS 232 connection for controlling one unit with a PC (personal computer)
- ■ Memory module automatically saves unit settings and recipes
- ■ Manual program override feature for operational settings
- ■ Smooth action hand shower for compartment cleaning

Gas Fired Steam Generator

- ■ Quiet, high efficiency, power burner heating system
- ■ Built-in automatic rinse system
- ■ Automatic fill and water level control
- ■ Automatic generator drain

Short Form Specifications

*Shall be Cleveland Model: OGB-6.20 Combination Convection Oven / Steamer with simple to operate electronic programmable controls for Hot Air, Convection Steam, and Combination cooking modes, "**Cook & Hold**" and "**Delta T**" slow-cooking capabilities, "**Advanced Closed System**" with "**Crisp & Tasty**" de-moisturizing feature. Multiple cooking stage programs, stored recipe library, multipoint core temperature probe, "**Press & Go**", one-step recipe start buttons, "**Smart Key**" for selecting option settings, Two (2) speed auto reversing convection fan. Quiet, high efficiency power burner heating system; steam generator with automatic drain. "**Disappearing Door**". Capacity for seven (7) 18" x 26" full size sheet pans, or fourteen (14) 12" x 20" x 2 1/2" pans.*

Options and Accessories

- ❒ ConvoClean automatic compartment washing system
- ❒ PC-HACCP software for establishing "HACCP controls" and automatic documentation of the cooking process
- ❒ Equipment stand(s)
- ❒ Equipment stand(s) with Casters
- ❒ Stacking kit for stacking two (2) OGB-6.20 models
- ❒ Stacking kit for mounting one (1) OGB-6.20 model on top of one (1) OGB-10.20
- ❒ Universal pan-rack system to hold full size sheet pans without the use of wire shelves
- ❒ Lockable cover over operating controls for prison installations
- ❒ USB or RS 485 connection for networking and controlling up to 32 units with a personal computer
- ❒ Propane gas option
- ❒ Flue diverter
- ❒ Plate rack for banquet operations
- ❒ Plate rack cart
- ❒ Thermal cover for plate or pan rack
- ❒ ConvoClean compartment cleaning solution
- ❒ ConvoCare concentrate for compartment rinse cycle
- ❒ "Dissolve" generator descaling solution
- ❒ Chicken Grill Rack
- ❒ 12" x 20" Wire Baskets for frying products
- ❒ Additional 26" x 20" Wire Shelves
- ❒ Special Baking Rack System

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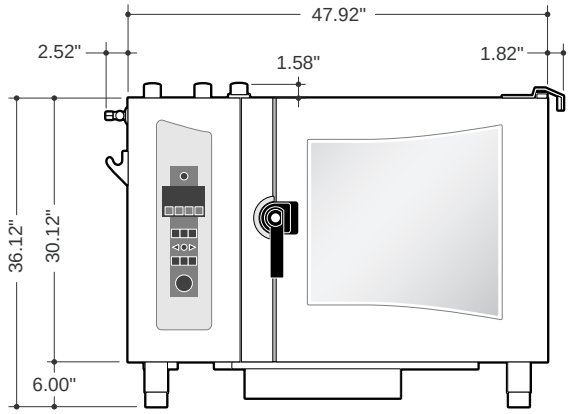
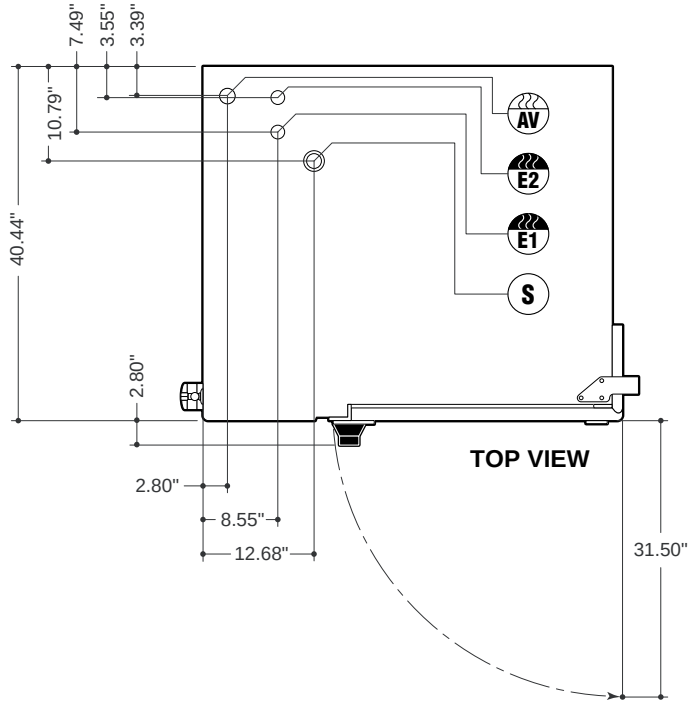
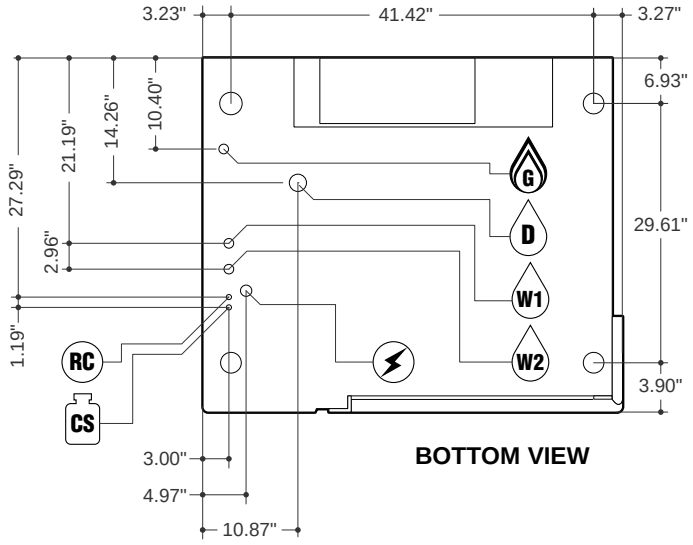


FRONT VIEW



TOP VIEW



BOTTOM VIEW

The "Advanced Closed System" offers the following advantages:

- Saves energy
- Automatic moisture level adjustment
- Low heat and steam emission to the kitchen
- Automatically regulated steam injection
- Enables immediate change into the steam mode
- "Crisp & Tasty" demoisturizing function

Model: OGB-6.20

Pan Capacity [Unit has 7 slide rails at 2.64" (67mm) apart]**:**

7 (20" x 26") full size wire racks
14 (13" x 18") half size sheet pans - **on wire racks**
14 (12" x 20" x 1") steam table pans
7 (18" x 26") full size sheet pans - **on wire racks**
14 (12" x 20" x 2 1/2") steam table pans
14 (12" x 20") frying Baskets - (**no wire racks needed**)

For Banquet Operations: Optional Plate Rack holds 42 plates

Unit Dimensions: Width - 52.26", Depth - 43.24", Height - 36.82"

Shipping Dimensions: (including packaging) Width - 58", Depth - 49", Height - 45"

Shipping Weight: 485 Lbs

Required Clearances: Rear - 2", Left Side - 4", Right Side - 2 1/2"

- Allow for sufficient distance if a "high heat source" (i.e. Broiler) is located next to the unit.
- Allow for sufficient clearance on left side for service access (contact the factory service department for recommendations).
- Installation must comply with all local fire and health codes.

Agency Approvals: UL - Gas, UL - Sanitation (NSF Standards)

Electrical Requirements: 120 volt, 11.7 amps, 60 Hz, single phase
Do not connect to a G.F.I. outlet

Gas Connection: 3/4" NPT
Gas Type: Natural Gas (Propane optional)
Gas Flow Pressure: Natural Gas - Min. 5.5" WC / Max. 14" WC
Propane Gas - Min. 11" WC / Max. 14" WC
Total Connected Load: 75,700 BTU (68000 BTU Propane)
Steam Generator: 68,200 BTU (61,000 BTU Propane)
Hot Air: 75,700 BTU (68,000 BTU Propane)

Water Connections: Cold Water (drinking water quality)
Flow Pressure: 30 - 60 PSI
Water Inlets: 3/4" GHT-F (Female Garden Hose Connection)

W1 Treated Water for Steam Generator
W2 Untreated Water for Condenser and Hand Shower

Drain Connection: 2" Tube

Venting: Exhaust Hood required

E1 Gas Exhaust for Hot Air Heating
E2 Gas Exhaust for Steam Generator
AV Air Vent

***Connection for Cleaning Solution**

***Connection for Rinse Cycle**

Low Pressure Safety Valve

*****Available as an option

NOTES:
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COMBI OVEN-STEAMER

CONVOTHERM by Cleveland

Featuring the
"Advanced Closed System +3"

GAS Fired – Boilerless

MODEL: ☐ *OGS-6.20*

CAPACITY: *Seven (7) – 18" by 26" full size sheet pans or Fourteen (14) – 12" by 20" by 2 1/2" steam table pans*

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Options and Accessories

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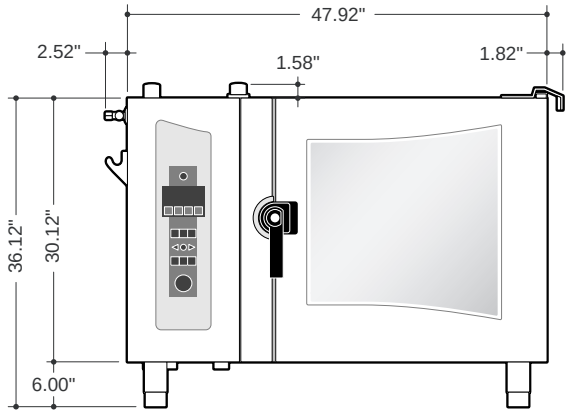
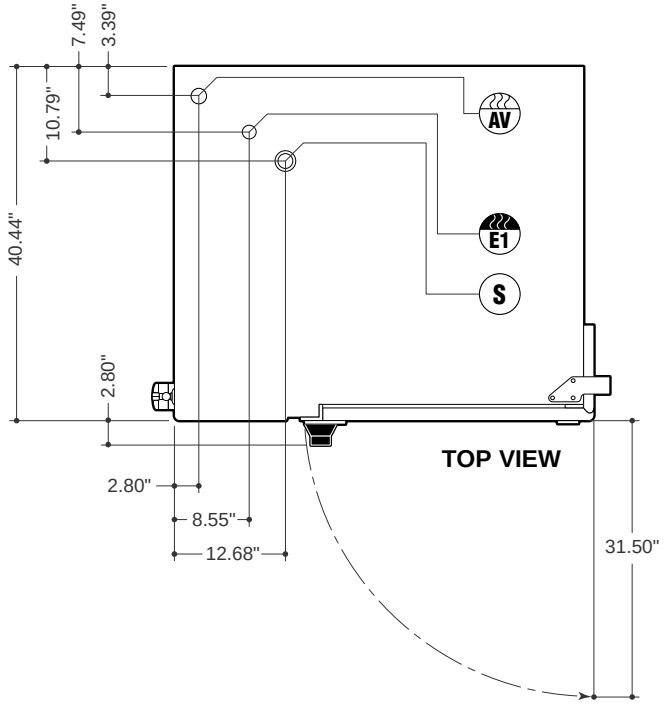
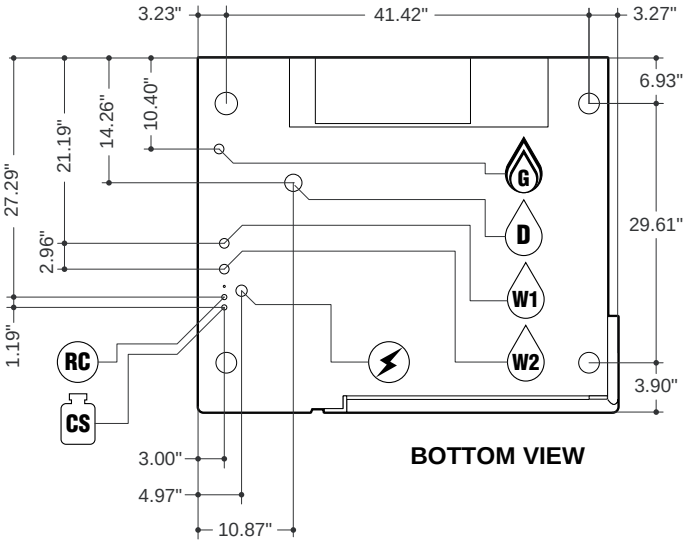


FRONT VIEW



TOP VIEW



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AV Air Vent

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Low Pressure Safety Valve

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Cleveland Range equipment is built to comply with applicable standards for manufacturers.

CONTROL PANEL
BASIC OPERATION
A. QUICK START GUIDE
ALWAYS PRE-HEAT THE OVEN CHAMBER!

1. Switch on with key (1).

2. Select cooking mode with keys (2-5).

3. Press key (6) to start.

OR

1. Press key (18) and rotate Selector Dial (23) to set oven temperature.

2. Press key (19) and rotate Selector Dial (23) to set cooking time.

OR

1. Press key (20) and rotate Selector Dial (23) to set core temperature.

ALL

1. Press key (6) to start the Combi.

2. To change the settings while cooking: press keys (18) OR (19) OR (20) and adjust the settings with the Selector Dial (23).

3. When the buzzer sounds press key (6) or open the door.

NOTES: See “CONTROL PANEL DETAIL VIEW” in Chapter 4, Section B for detailed descriptions of control panel functions.

Figure 4-1a
Control Panel

B. CONTROL PANEL DETAIL VIEW

Note: Item numbers correspond to numbers on the control panels in Figure 4-1b

1. ON/OFF

When the Combi is turned ON:

- Self-diagnosis is performed.
- Oven light turns on.
- Steam generator fills and heats (OEB and OGB models).

Cooking Modes

2. Steam

- Oven temperature is continuously variable between 86°F and 248°F.

3. Combi Hot Air and Steam

- Oven temperature is continuously variable between 212°F and 482°F.

4. Hot Air

- Oven temperature is continuously variable between 86°F and 482°F.

5. Retherm

- Oven temperature is continuously variable between 248°F and 320°F.

6. Start/Stop

- Start cooking modes and recipes.
- Stop the cooking activity.
- Escape or Exit Smart Key functions

Programming / Help

7. Cookbook

- Call up, exit cookbook.
- View a list of stored recipes in the display.

8. Smart Key

- Set Extra Functions.
- Set-Up the Combi.
- Enter Sub-Menus.

9. Edit

- Create, change, copy, and delete recipes.

Figure 4-1b
Control Panel

Function Indicators

- Light up when function or activity is engaged:

10. Reduced Power

11. Burner or Electric Heating ON

12. Reduced Fan Speed

13. Cooking Mode Engaged

14. Button Lock

15. Crisp & Tasty Engaged

16. Program Protection

17. Display

- **Display in normal mode**:
  - Date.
  - Time.
  - Oven Temperature.
  - Cooking Time
  - Core Probe Temperature.
- **Display in programming mode:**
  - Clear text.
  - Memory.
  - Symbols.

Settings

18. Oven Temperature

- Set the nominal oven temperature.
- View the actual or nominal oven temperature.

19. Cooking Time

- Set the cooking time from 1 minute to 9 hours, 59 minutes using the Selector Dial.
- Set Continuous Mode
  1. At 9:59 or 0:01, release the Selector Dial.
  2. Turn the Selector Dial again to the left or right.
- See the actual or nominal cooking time.
- See elapsed cooking time when using Core Temperature mode.

20. Core Temperature

- Set the nominal core temperature.
- See the actual or nominal core temperature.
- See the actual core temperature during cooking time mode.

21 & 22. Scroll Left and Scroll Right

- Page / Scroll one step forward or back in programming mode.

23. Selector Dial

- Set: Oven temperature, cooking time, core temperature, recipe name, recipe number.
- Select Smart Key functions, editing functions and recipes in the cookbook.

24. Press & Go Keys

- Start saved recipes with one key.
- LED below key lights up when corresponding recipe is started.

Notes:

- **Magnetic door switch**
  If the oven door is opened during operation, the magnetic door switch automatically interrupts the recipe. The timer stops. After closing the oven door, the Combi automatically continues the recipe. If the oven door is opened when the buzzer sounds at the end of a recipe, it automatically switches off.
- Operate controls with hands only!

AT THE END OF THE DAY OR SHIFT

A. Cleaning the Oven Chamber

⚠ CAUTION
Clean the oven chamber at least once per day or more frequently as needed **Failure to clean the Combi properly and regularly can cause equipment damage.** **Damage caused by improper cleaning will invalidate the Warranty!**

1. Cleaning – General

a. Regular cleaning of the Combi after use, inside and out, helps guarantee many years of satisfaction from your Combi.

b. Clean and maintain the Combi ONLY when the Combi is cold.

c. Use the hand shower only inside the oven chamber.

d. Clean the outside the Combi by hand.

e. Never use the hand shower, hose, pressure washer or similar device on the outside of the Combi.

f. NEVER spray anything on or into the air intakes or outlets of the Combi.

g. Do NOT use hoses, pressure washers, high-pressure cleaners, or water jets to clean inside the Combi oven chamber.

h. Do NOT spray water into a hot oven chamber.

i. Use only genuine Convotherm by Cleveland and Cleveland Range cleaning and descaling products. Follow the instructions and heed and obey the warnings on the labels. Other products can cause injury, present heath hazards, and damage the Combi.

j. Never use irritant, acidic, highly alkaline cleaners, high-alcohol, chlorine, chlorinated, or abrasive cleaning agents, scrapers, or abrasive materials to clean the Combi.

k. Poor water quality can cause discoloration inside the oven chamber. Remove these discolorations with CONVOCare. Spray CONVOCare on the affected surfaces in a COLD oven chamber, wait 10 minutes, wipe off with a soft cloth or sponge, and begin cleaning as usual.

l. Damage caused as a result of improper cleaning voids the warranty.

2. Semi-Automatic and Automatic Cleaning - General

a. If the oven chamber is very heavily soiled, additional manual cleaning may be necessary.

b. Depending on the level of soiling of the oven chamber, the engaging frames and grills may be left in the oven during the automatic cleaning process.

c. Do NOT interrupt the semi-automatic or automatic cleaning process.

⚠ WARNING

When working with cleaning agents, nozzle rinsing fluid and spray bottles: Wear suitable clothing, protective gloves and protective goggles to help protect from splashes and spills. Failure to do so can result in chemical burns on skin and in eyes.

⚠ WARNING

Read, understand, and heed and obey all instructions and safety information found on cleaning agent labels, Material Safety Data Sheets, and related documents and sources. Failure to do so can result in death, injury, and equipment damage.

3. Manual Cleaning of the Oven Chamber

a. Clean the Combi daily to prevent discoloration and corrosion of the stainless steel.

1) Avoid scratching the oven chamber or engaging frame.

2) Scratches can collect soil and / or allow corrosion to begin.

3) Do NOT use harsh or abrasive cleaning agents, scouring pads, or scrapers.

b. Clean the fan guard and the fan area behind the fan guard at the same time.

1) Release the quick-action locks on the oven racks and fan guard.

2) Pivot the oven racks and fan guard out into the oven chamber.

3) After cleaning, push the oven racks and fan guard closed and fix them in place with the quick-action locks.

⚠ CAUTION

Do NOT use U-Shaped racks that are bent or otherwise damaged in any way. Pans and accessories placed in damaged racks can tip and spill, causing burns, injuries and/or equipment damage

4) Make sure that the U-Shaped racks do not become bent; otherwise grills, racks, containers and accessories will no longer be safely supported. If U-Shaped racks become bent then remove the Combi from service and contact your qualified Cleveland Range authorized service representative at once.

c. Clean the interior of the of the double glass doors daily.

1) Release the quick-action locks on the door glass.

2) Clean the glass with a non-abrasive cleaner and a soft cloth.

3) Do not use harsh or abrasive cleaning agents, scouring pads, or scrapers because they will damage the glass.

d. Regular cleaning of the hygienic plug-in gasket (door gasket) increases service life.

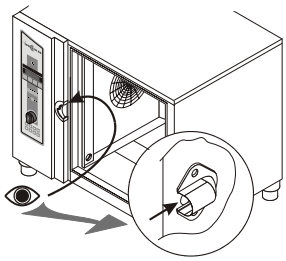
1) Wait for the gasket to cool.

2) Clean the gasket with mild, scent free dish detergent and a soft cloth.

3) Do not use harsh or abrasive agents, scouring pads or scrapers because they will damage the gasket.

4) Air dry the gasket.

e. Clean the Bypass Measuring Aperture. (Opening in the oven chamber on the left-hand side, slightly below the door latch. See diagram.)
   1) Spray with CONVOClean.
   2) Rinse clean with the hand shower.



Bypass

f. Remove and clean the drain cover.
   1) Clean food residue and drippings from the tray and drain in the oven chamber.
   2) Spray on original CONVOClean oven chamber cleaner and allow it to take effect.
   3) Rinse thoroughly with the hand shower.
g. Clean the drain and make sure that it is not blocked.
h. Clean the demoisturizing tray (trough shaped area under the drain cover).

Drain Cover and Drain

i. Clean the door drip tray, appliance drip trays and accessory drip trays.

NOTES:

- If a white deposit forms inside the oven chamber, the water treatment system is not correctly set, or the addition of a water treatment system is required. To remove this deposit, use vinegar and a soft cloth.
- Ask your qualified Cleveland Range authorized service representative about adding or setting a water treatment system.

B. Semi-Automatic Cleaning of the Oven Chamber

NOTE: Do NOT press the Start/Stop key while using the Semi-automatic Cleaning process. This stops the cleaning process.

⚠ WARNING

The Semi-Automatic Cleaning process is designed to be started when the oven chamber temperature is at or below 158°F. Death, injury, and equipment damage can result from starting the Semi-Automatic Cleaning process when the oven chamber is above 158°F.

1. Before starting the Semi-Automatic Cleaning process, make sure the oven chamber is below 158°F by stopping all processes and pressing the Temperature key twice to view the actual temperature.
   a. If the oven chamber is above 158°F then open the Combi door and wait 15 minutes.
   b. Check the oven temperature again.
      1) If the oven temperature is at or below 158°F then go to Step 2.
      2) If the oven temperature is still above 158°F then wait 15 more minutes and check the oven chamber temperature. Repeat this step as needed until the oven chamber temperature is at or below 158°F and then go to Step 2.
2. See separate instruction sheet P/N 260AYM, “One-Hand Sprayer with Telescoping Wand,” for safety information, detailed instructions for using the sprayer, P/N 111598, and other information.
3. Always wear appropriate protective clothing and equipment when using this Sprayer, including protective gloves and goggles.
4. Close and latch the Combi door.
5. If the Combi is OFF, turn it ON.
6. Press the Smart Key. Various options appear in the display.
7. Use the Selector Dial to select “Cleaning” .
8. Confirm by pressing the Smart Key.
9. Confirm “Yes” with the Smart Key. The semi-automatic cleaning process starts.
10. Semi-automatic cleaning uses cooking modes to assist the cleaning process. The display shows the nominal values for the cooking modes.
    a. The first step is Hot Air mode at 158°F for 10 minutes, followed by a Signal Tone.
11. After the first Signal Tone, open the oven door, and follow instruction sheet in P/N 260AYM to spray the oven chamber, drain, grills, plates etc. with original Convotherm by Cleveland CONVOClean.
12. Close and latch the Combi door and allow the CONVOClean to take effect. The Semi-Automatic Cleaning mode continues to run.
    a. The second step is Steam mode at 86°F for 10 minutes, followed by a Signal Tone.
13. After the second Signal Tone, clean behind the fan guard and the fan area.
    a. Release the quick-action locks on the oven racks and fan guard.
    b. Swing the oven racks and fan guard into the oven chamber.
    c. After cleaning, swing the oven racks and fan guard closed and fix it in place with the quick-action locks.
14. Close and latch the Combi door. The Semi-Automatic Cleaning mode continues automatically.

    a. The third step is Steam mode at 86°F for 1 minute. No action is needed.
    b. The fourth step is Steam at 212°F for 10 minutes, followed by a Signal Tone.
15. Turn OFF the Combi when the Signal Tone sounds.
16. Use the hand shower to rinse thoroughly the oven chamber, accessories, and behind the fan guard.
17. In the case of severe staining or soiling, repeat the cleaning process.
18. After use or after cleaning, leave the Combi door open.

C. CONVOClean Automatic Cleaning System (optional):

NOTES:

- Do NOT interrupt the automatic cleaning process. Interrupting and restarting the Automatic Cleaning System with the ON/OFF key may start a 6 minute forced rinsing of the oven chamber to remove any CONVOClean and CONVOCare residue when the ON/OFF key is turned back ON. The Signal Tone sounds at the end of the forced rinsing cycle and the Combi is ON.
- Do not open the Combi door during the automatic cleaning process, unless the instruction “Open the door” and “close the door,” appears in the display.
- Pre-clean manually to save water and CONVOClean by selecting a lower cleaning setting.
- If the security questions are not answered within 5 seconds, the Combi resets itself to the query level and will not start.
- If the message “No cleaner pressure” appears, check that there is enough CONVOClean and/or CONVOCare in the correct containers. Refill them if necessary (red hose for CONVOClean, and blue or white hose for CONVOCare).

⚠ CAUTION
Always make sure the cleaning agent containers are correctly connected to the Combi **CONVOClean => RED** **CONVOCare => BLUE or WHITE**

A. See P/N 260AZA, “Instructions for CONVOClean System Start-up Kit,” for hose attachment, solution mixing, and other information.

B. The CONVOClean Automatic Cleaning Process

1. The oven chamber **must be cold** before starting this process. If the oven chamber is still hot, the error message, “oven temp too hi / please wait” appears in the display. If this error message appears, open the Combi door, wait 15 minutes and then try to start the automatic cleaning process. Repeat as needed.
2. Before starting, remove large pieces food or cooking residue from the oven chamber to help prevent the drain from becoming blocked.
3. Check the level of Convotherm by Cleveland CONVOClean and CONVOCare.
   a. The containers **must** be full.
   b. The suction pipes **must** be located in the fluid.
   c. The hoses must be properly attached to the Combi.
4. Press the Smart Key. Various options appear in the display.
5. Use the Selector Dial to select “CONVOClean system” .
6. Confirm by pressing the Smart Key.
7. PRESS the Temperature key and select the cleaning level (1-4) with the Selector Dial. Approximate run times are listed to help plan use of the CONVOClean system. Times may vary by +/- 15 minutes.

1	“Light Soiling”	55 minutes.
2	“Medium Soiling”	1 hour and 30 minutes.

3	“Strong Soiling”	2 hours.
4	‘Strong Soiling – Shining+”	2 hours and 45 minutes.

8. Press the Smart Key.
9. “Food inside oven?” appears in the display.
10. If the oven is empty, then answer “No.”
11. Confirm by pressing the Smart Key.
12. “Start auto-cleaning?” appears in the display.
13. Answer “Yes.”
14. Confirm by pressing the Smart Key.
15. The CONVOClean system starts.
16. The instruction “open the door” appears in the display to check the function of the magnetic door switch.
17. Open the Combi door.
18. The instruction “close the door,” appears in the display to check the function of the magnetic door switch.
19. Close the door.
20. The self test “water supply open?” appears in the display. If the water supply is on (open), then the self test question disappears from the display.
    a. If “water supply open?” does not disappear from the display, or “not enough water” appears in the display, then check the water supply.
    b. The CONVOClean system resumes running after the water supply is restored.
21. “Cleaning in progress” appears in the display and the CONVOClean process runs.
22. The Signal Tone sounds at the end of the CONVOClean cycle and “end of cleaning” appears in the display.
23. Press the Start/Stop key to stop the Signal Tone and end the CONVOClean process.
24. The Combi is ON and ready to use.
25. After use or after cleaning, leave the Combi door open.

DESCALE STEAM GENERATOR

A. GENERAL INFORMATION

1. Steam generators should be descaled at least once a month, depending on scale buildup. If you have serious steam generator scale buildup, a water treatment system should be installed for the steamer. If this is not possible, the frequency of descaling should be increased.
2. Cleveland Range, recommends the use of ***DISSOLVE*® Descaler Solution, Cleveland Range Part Number 106174.** No other system of steamer descaling should be used.
3. **NOTE:** Part No. 106174 is the Part No. for a case (6 1-gallon containers) of *DISSOLVE*® descaler.
4. THESE INSTRUCTIONS ARE FOR USE WITH *DISSOLVE*® DESCALER SOLUTION Cleveland Range Part Number 106174 ONLY.
5. **Health Hazard Data, Effects of Overexposure** – This product may cause a burning sensation to eyes or skin.
6. **Emergency and First Aid Procedures** - In case of eye contact, immediately flush eyes with plenty of water. If irritation persists, seek medical attention. In case of skin contact: wash with soap and water. If inhaled, remove to fresh air. If burning persists, call a physician. If swallowed, drink 1 or 2 glasses of water and call a physician.
7. **Spill or Leak Procedures** – Rinse with plenty of water to dilute. Sodium carbonate or calcium carbonate may be used to soak up liquid. Spent material is considered non-hazardous and may be disposed of in a sewer system with water flush.

⚠ WARNING

The liquid solution in Cleveland Range Descaler Solution Part No. 106174, "***DISSOLVE*® Descaler Solution,"** can be harmful if not handled properly.

Follow these basic safety rules for handling and using this product to help prevent death or injury:

- Wear protective clothing when mixing or applying chemical cleaners.
- Wear rubber gloves, and OSHA approved eye protection when descaling to help avoid injury.
- Avoid breathing fumes. If liquid comes in contact with skin, wash with soap and water.
- If chemical contacts eyes, flush with water. If irritation persists, seek medical attention
- If chemical is swallowed or ingested, drink 1 or 2 glasses of water and call a physician.

Failure to do so can result in death or injury.

⚠ CAUTION

Use ONLY the *DISSOLVE*® Descaler method using Part No. 106174 to descale the Combi.

Read, understand, and follow both the descaling procedure instructions and warnings, and the instructions and warnings on the *DISSOLVE*® label and MSDS.

Injury, equipment damage, and property damage can result from using other descaling systems and/or failing to follow the descaling procedure and *DISSOLVE*® instructions and warnings.

⚠ DANGER

Do NOT heat the Combi during descaling.
Death, injury, equipment and property damage can result.

⚠ WARNING

This procedure is slightly different depending on the model being descaled. This entire procedure should be read and fully understand as it applies to the model being descaled, before beginning the actual descaling operation.

B. GENERAL SAFETY FOR DESCALING

1. Always wear suitable protective clothing including appropriate gloves, and eye protection.
2. Read, understand, heed and obey and obey and obey, and follow all directions on the descaler label, MSDS, and related documents
3. Never operate the Combi when descaler has been applied or while descaling.
4. Descale only when the Combi is cold.
5. Immediately wipe up any leaked or spilled descaling fluid.

C. COMBI ATMOSPHERIC STEAM GENERATOR DESCALING PROCEDURE

(For *DISSOLVE*® Descaler Solution Part No. 106174)

This procedure takes approximately 3 hours to complete.

Do NOT heat the Combi during descaling.

1. Turn ON the Combi at the Control Power Service Disconnect switch located below the hand shower.
2. Turn ON the Combi with the ON/OFF key.
3. Open the door to the cooking compartment.
4. Run a manual steam generator rinse cycle.

   To Empty and Rinse the Steam Generator:

   a. Press the Smart Key.
   b. Select “Manual Steam Generator Rinse” with the Selector Dial.
   c. Confirm “Yes” with the Smart Key.
   d. Steam generator rinses and begins to refill to operating level.

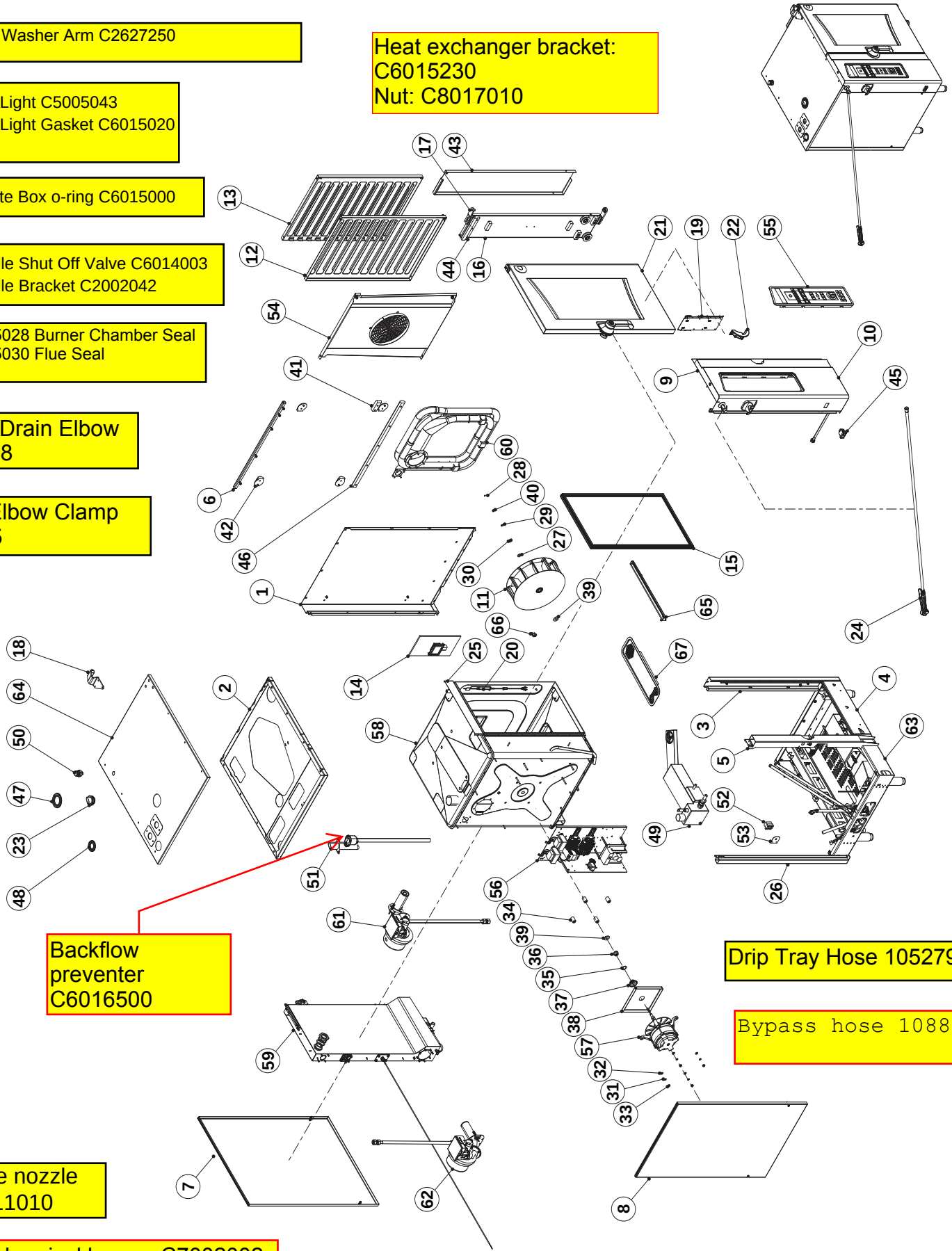
4. Remove the cap from the descale port located at the top of the Combi (See Figure 6-1).
5. **While the steam generator is filling with water, use a funnel (NOT INCLUDED) to add 3/4 gallon of *DISSOLVE*® descaler solution into the descaling port of 20.20 Combis, and 1/2 gallon for all other models**

Figure 6-1
Descaling Port
Located at Right Rear of the Combi

- While adding liquid to the steam generator through the descaler inlets, pour slowly to avoid overflow.
- Wipe up any spills at once to avoid etching.

6. After the automatic fill cycle has ended, turn OFF the Combi with the ON/OFF key, and at the Control Power Service Disconnect switch located below the hand shower. See Figure 6-2.
7. Add cold tap water through the descale port until descaling solution enters the cooking compartment through the steam port or until the descaling port overflows (water required varies depending on the Model).
   - Wipe up any spills and overflows.
8. Let the Descaler work for 1 hour.
9. Turn the Combi ON at the Control Power Service Disconnect switch located below the hand shower. See Figure 6-2.
10. Turn ON the Combi with the ON/OFF key.
11. Run a manual steam generator rinse cycle (Step 4).
12. After the automatic fill cycle has ended, turn OFF the Combi with ON/OFF key, and at the Control Power Service Disconnect switch located below the hand shower. See Figure 6-2.
13. Add water through the descale port until water enters the cooking compartment through the steam port or until the descaling port overflows (water required varies depending on the Model) to rinse descaler from the area above the normal water fill level.
14. Replace the descale port cap.
15. Turn the Combi ON at the Control Power Service Disconnect switch located below the hand shower. See Figure 6-2.
16. Turn ON the Combi with the ON/OFF key.
17. After the Automatic Fill ends, run a manual steam generator rinse cycle (See Step 4).
18. Run Combi mode for 30 minutes at 212° F with Crisp & Tasty function.
19. Close the cooking compartment door.
    a. Press Combi key.
    b. Press Temperature key.
    c. Set temperature with Selector Dial to 212° F.
    d. Press Time key.
    e. Set time with the Selector Dial for 30 minutes.
    f. Press Smart Key Various options appear in the display.
    g. Select “Crisp & Tasty” with the Selector Dial.
    h. Select the Crisp & Tasty level to “high demoisturizing – continuous” with the Selector Dial.
    i. Confirm “Yes” with Smart Key.
    j. The Crisp & Tasty icon appears in the display.
    k. Press the Start/Stop key to start.
    l. Signal Tone sounds and steaming stops after 30 minutes.
    m. Press the Start/Stop key to end the Signal Tone.
20. Run a manual steam generator rinse cycle. (See Step 4) This is the final rinse. The Combi is now ready for normal operation.

1010 GAS GENERATOR W CLEANING



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1010 GAS GENERATOR W CLEANING

ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2115483	ASSEMBLY, PANEL, RIGHT SIDE, 10.10
2	1	C2114824	ASSEMBLY/WELDMENT, INTERMEDIATE TOP, 6.10/10.10
3	1	C2115490	ASSEMBLY, CORNER, FRONT, RIGHT, 10.10/10.20
4	1	C2114452	WELDMENT, FACE PLATE, LOWER, 6.10/10.10
5	1	C2114719	WELDMENT, REINFORCEMENT, DOOR LATCH, 10.10/10.20
6	1	C2114688	ASSEMBLY, SLIDE BAR, DISAPPEARING DOOR, 6.10/10.10
7	1	C2114743	ASSEMBLY, PANEL, REAR, ELECTRIC & GAS INJ, 10.10
8	1	C2114783	ASSEMBLY, PANEL, LEFT SIDE, 10.10
9	1	C2115375	WELDMENT, CHANNEL, FRONT, 6.10/10.10
10	1	C2115443	FRONT PIECE, PRE-MOUNTED, 10.10
11	1	C6010001	WHEEL, BLOWER, 350mm OD X 110mm WIDE, TYPE 304 6.20 & 10.10 COMBI
12	1	C2214190	PAN RACK,LEFT, ELECTROPOLISHED, 10.10
13	1	C2214191	WELDMENT, PAN RACK, RIGHT, 10.10
14	1	C2614841	CAVITY LIGHT
15	1	C7011002	DOOR SEAL, 10.10
16	1	C2614802	ASSEMBLY, SLIDING PLATE VST 10.10/10.20
17	1	C2013006	WELDMENT, HINGE CARRIER, UPPER, DOOR
18	1	C2614740	ASSEMBLY, GUIDE CLIP, VST, COUNTERTOP MODEL
19	1	C26142661	ASSEMBLY, CONTROLLER
20	1	C2614263	ASSEMBLY, CORE TEMPERATURE SENSOR
21	1	C2514352	ASSEMBLY, DOOR 10.10
C6012001	22	1	~~C2216070~~ ASSEMBLED, BLOCK
23	1	C2608962	ASSEMBLY, NEGATIVE PRESSURE SAFETY VENT ← Oring-C6005068
24	1	C22160801	ASSEMBLY, HAND SHOWER, 10.10, 6.10
25	1	C2114731	FACEPLATE, UPPER X.10
26	1	C2114634	CORNER, WELDED, REAR, LEFT, 10.10/10.20
27	1	111544	WASHER, BELLEVILLE, M10, SMOOTH, TYPE 301 SST, 10.21mm ID X 24mm OD X 1.85mm THICK
28	1	111543	RING, RETAINING, EXTERNAL, 1/4", STAINLESS STEEL, WALDES #5100-25H
29	1	111542	WASHER, BELLEVILLE, M8, SERRATED BOTH SIDES, SST, 8.4mm ID X 13mm OD X 0.8mm THICK
30	1	111540	NUT, HEX, M10 X 1.5 (DIN 934), STAINLESS STEEL
31	4	C8006060	SCHNORR LOCK WASHER
32	4	C8005050	WASHER, 8.4 A2 DIN 125
33	4	C8004057	NUT, HEX, M8 A4
34	4	C6015213	SPACER, MOTOR 1.299 (FAN DISTANCE 2.008in)
35	1	C6015210	SHIM, WEARING MOTOR SHAFT SEAL
36	1	C6015206	BUSHING, LABYRINTH
37	1	C6015050	SPRING, MOTOR SHAFT SEAL
38	1	C2114140	MOTOR MOUNTING PLATE
39	2	C6015021	SEALING RING, MOTOR SHAFT, VITON, COMBI
40	1	111541	NUT, HEX, LEFT-HAND, M8 X 1.25 (DIN 934L), STAINLESS STEEL
41	1	C6012009	GUIDE STRIP, LOWER VST
42	4	C6012011	DOORSTOPPER VA VST
43	1	C2114817	COVER PANEL VST 10.10/10.20
44	1	C6012008	SUPPORT STRIP RST
45	1	19993	SWITCH, ROCKER, DPDT, ON/OFF 15A, 125V
46	1	C2017001	SAFETY RAIL VST 6.10/10.10
47	1	C6005427	DIAPHRAGM GROMMET ø 83 (DG60) FOR VAC. REG. VALVE
48	1	C6005048	DIAPHRAGM GROMMET ø 60 mm (DG 48)
49	1	C2414125	FINAL ASSEMBLY, CONDENSER
50	1	109641	PORT ASSY, DESCALER
51	1	C2114287	ASSEMBLY, AIR OUTLET
52	1	C5001041	SAFETY TEMPERATURE LIMITER, 340ºC
53	1	C2114798	BRACKET, HIGH LIMIT, STEAM GENERATOR
54	1	C2214143	ASSEMBLY, INTAKE PANEL, GEN, 10.10,
55	1	C2114296	ASSY, CONTROL PANEL, STEAM GEN, WITH PICTO
56	1	300480	ASSY., COMP. PANEL, OGB 6.20/10.10
57	1	C50180211	MOTOR W/STUD, ALL VOLTAGES, 3-PHASE, 4 POLE, 0.6KW, GAS COMBI
58	1	C2215042	WELDMENT, INNER HOUSING, GAS, GEN, 10.10, REI
59	1	C2314882	STEAM GENERATOR, GAS, 10.10, PREASSEMBLED
60	1	C2010000	WELDMENT, HEAT EXCHANGER, GAS, 10.10/20.10
61	1	C2614862	BURNER INSERT,10.10/20.10, HOT AIR, NAT GAS
62	1	C2314900	ASSEMBLY, BURNER INSERT, GEN, GAS, 6.20/10.10, NAT
63	1	C2114545	BASE, GAS, GEN, 10.10 W/CLEANING
64	1	C2115463	ASSEMBLY, PANEL, TOP, GAS GEN, 10.10
65	1	C2018000	DRIP TRAY, 10.10
66	1	C2016009	COVER, BYPASS
67	1	C2216796	ASSEMBLY, COVER, DEHUMIDIFYING GUTTER

1010 GAS INJ W CLEANING

Washer Arm C2627250

Light Gasket C6015020

Lamp C5005043

Condensate Box o-ring C6015000

Spray Handle Bracket C2002042

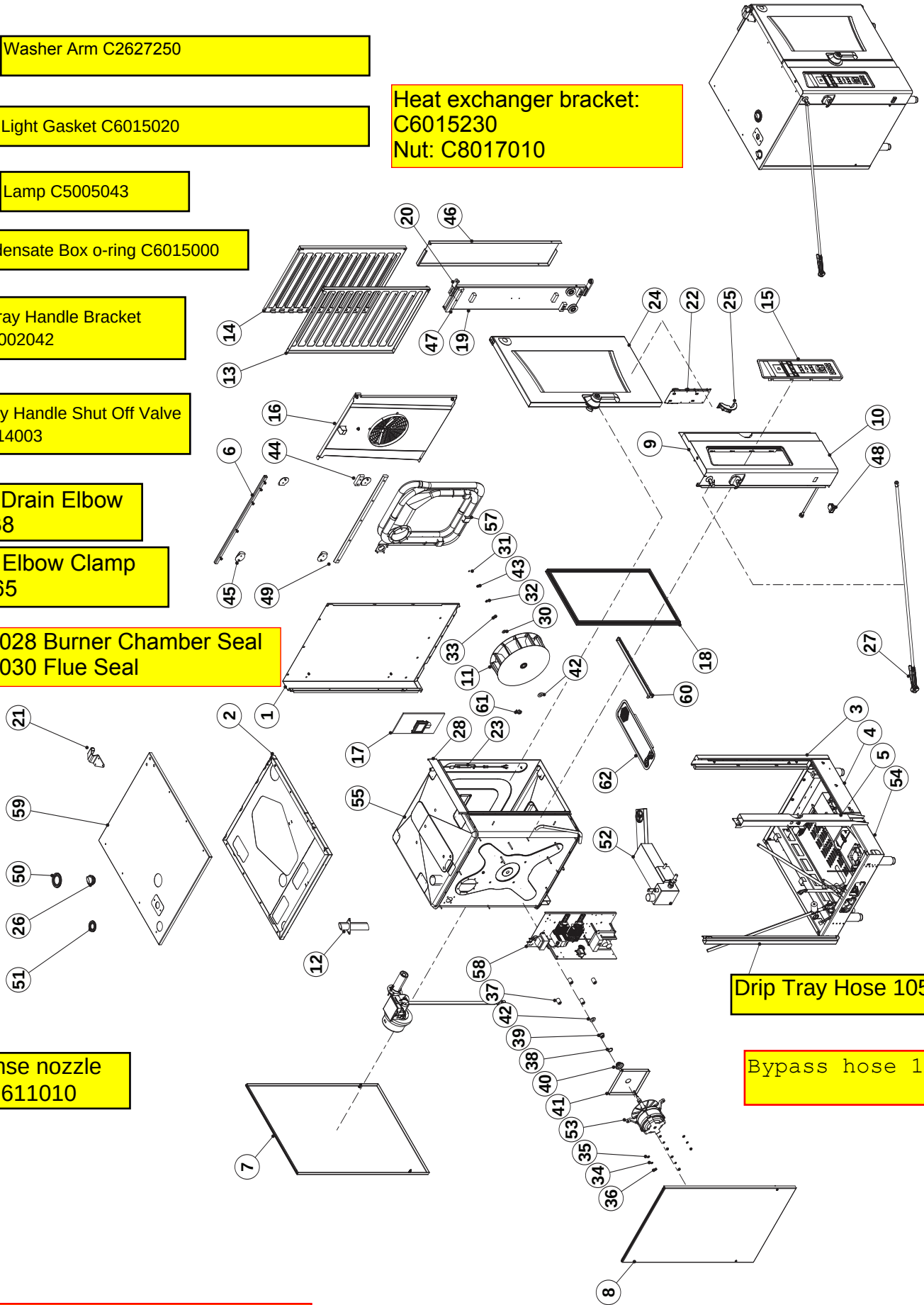
Spray Handle Shut Off Valve C6014003

Black Drain Elbow 113738

Drain Elbow Clamp 112165

C6015028 Burner Chamber Seal
C6015030 Flue Seal

Heat exchanger bracket: C6015230
Nut: C8017010



Drip Tray Hose 105279

Rinse nozzle C2611010

Bypass hose 108820

red chemical hose C7002002
clear chemical hose C7002006

Garden Hose adapter 6064053

1010 GAS INJ W CLEANING

ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2115483	ASSEMBLY, PANEL, RIGHT SIDE, 10.10
2	1	C2114824	ASSEMBLY/WELDMENT, INTERMEDIATE TOP, 6.10/10.10
3	1	C2115490	ASSEMBLY, CORNER, FRONT, RIGHT, 10.10/10.20
4	1	C2114452	WELDMENT, FACE PLATE, LOWER, 6.10/10.10
5	1	C2114719	WELDMENT, REINFORCEMENT, DOOR LATCH, 10.10/10.20
6	1	C2114688	ASSEMBLY, SLIDE BAR, DISAPPEARING DOOR, 6.10/10.10
7	1	C2114743	ASSEMBLY, PANEL, REAR, ELECTRIC & GAS INJ, 10.10
8	1	C2114783	ASSEMBLY, PANEL, LEFT SIDE, 10.10
9	1	C2115375	WELDMENT, CHANNEL, FRONT, 6.10/10.10
10	1	C2115443	FRONT PIECE, PRE-MOUNTED, 10.10
11	1	C6010001	WHEEL, BLOWER, 350mm OD X 110mm WIDE, TYPE 304 SST, 6.20 & 10.10 COMBI
12	1	C2114292	AIR OUTLET CONECTING PIECE 20.20 GEN. 6.20/10.10/20.20 INJ.
13	1	C22141901	PAN RACK,LEFT, ELECTROPOLISHED, 10.10
14	1	C2214191	WELDMENT, PAN RACK, RIGHT, 10.10
15	1	C2114296-3	ASSY, CONTROL PANEL, SPRITZER, WITH PICTO
16	1	C2214153	ASSEMBLY, INTAKE PANEL INJ 10.10
17	1	C2614841	CAVITY LIGHT
18	1	C7011002	DOOR SEAL, 10.10
19	1	C2614802	ASSEMBLY, SLIDING PLATE VST 10.10/10.20
20	1	C2013006	WELDMENT, HINGE CARRIER, UPPER, DOOR
21	1	C2614740	ASSEMBLY, GUIDE CLIP, VST, COUNTERTOP MODEL
22	1	C26142661	ASSEMBLY, CONTROLLER
23	1	C2614263	ASSEMBLY, CORE TEMPERATURE SENSOR
24	1	C2514352	ASSEMBLY, DOOR 10.10
C6012001	25	1	~~C2216070~~ ASSEMBLED, BLOCK
26	1	C2608962	ASSEMBLY, NEGATIVE PRESSURE SAFETY VENT
27	1	C22160801	ASSEMBLY, HAND SHOWER, 10.10, 6.10
28	1	C2114731	FACEPLATE, UPPER X.10
29	1	C2114634	CORNER, WELDED, REAR, LEFT, 10.10/10.20
30	1	111544	WASHER, BELLEVILLE, M10, SMOOTH, TYPE 301 SST, 10.21mm ID X 24mm OD X 1.85mm THICK
31	1	111543	RING, RETAINING, EXTERNAL, 1/4", STAINLESS STEEL, WALDES #5100-25H
32	1	111542	WASHER, BELLEVILLE, M8, SERRATED BOTH SIDES, SST, 8.4mm ID X 13mm OD X 0.8mm THICK
33	1	111540	NUT, HEX, M10 X 1.5 (DIN 934), STAINLESS STEEL
34	4	C8006060	SCHNORR LOCK WASHER
35	4	C8005050	WASHER, 8.4 A2 DIN 125
36	4	C8004057	NUT, HEX, M8 A4
37	4	C6015213	SPACER, MOTOR 1.299 (FAN DISTANCE 2.008in)
38	1	C6015210	SHIM, WEARING MOTOR SHAFT SEAL
39	1	C6015206	BUSHING, LABYRINTH
40	1	C6015050	SPRING, MOTOR SHAFT SEAL
41	1	C2114140	MOTOR MOUNTING PLATE
42	2	C6015021	SEALING RING, MOTOR SHAFT, VITON, COMBI
43	1	111541	NUT, HEX, LEFT-HAND, M8 X 1.25 (DIN 934L), STAINLESS STEEL
44	1	C6012009	GUIDE STRIP, LOWER VST
45	4	C6012011	DOORSTOPPER VA VST
46	1	C2114817	COVER PANEL VST 10.10/10.20
47	1	C6012008	SUPPORT STRIP RST
48	1	19993	SWITCH, ROCKER, DPDT, ON/OFF 15A, 125V
49	1	C2017001	SAFETY RAIL VST 6.10/10.10
50	1	C6005427	DIAPHRAGM GROMMET ø 83 (DG60) FOR VAC. REG. VALVE
51	1	C6005048	DIAPHRAGM GROMMET ø 60 mm (DG 48)
52	1	C2414125	FINAL ASSEMBLY, CONDENSER
53	1	C50180211	MOTOR W/STUD, ALL VOLTAGES, 3-PHASE, 4 POLE, 0.6KW, GAS COMBI
54	1	C2114535	BASE, GAS, INJ, 10.10 W/CLEANING
55	1	C2215041	WELDMENT, INNER HOUSING, GAS, INJ, 10.10, REI
56	1	C2614862	BURNER INSERT,10.10/20.10, HOT AIR, NAT GAS
57	1	C2010000	WELDMENT, HEAT EXCHANGER, GAS, 10.10/20.10
58	1	300488	ASSY., COMP. PANEL, OGS 6.20/10.10
59	1	C2115453	ASSEMBLY, TOP PANEL, GAS INJ, 10.10
60	1	C2018000	DRIP TRAY, 10.10
61	1	C2016009	COVER, BYPASS
62	1	C2216796	ASSEMBLY, COVER, DEHUMIDIFYING GUTTER

Oring-C6005068

Rectangle rail C2017010

620 GAS GEN W CLEANING

No Descaler cover
111584

Washer Arm C2627250

Set of racks with center support
FK1119821

Light Gasket C6015020

Heat exchanger bracket:
C6015230
Nut: C8017010

Lamp C5005043

Condensate Box o-ring C6015000

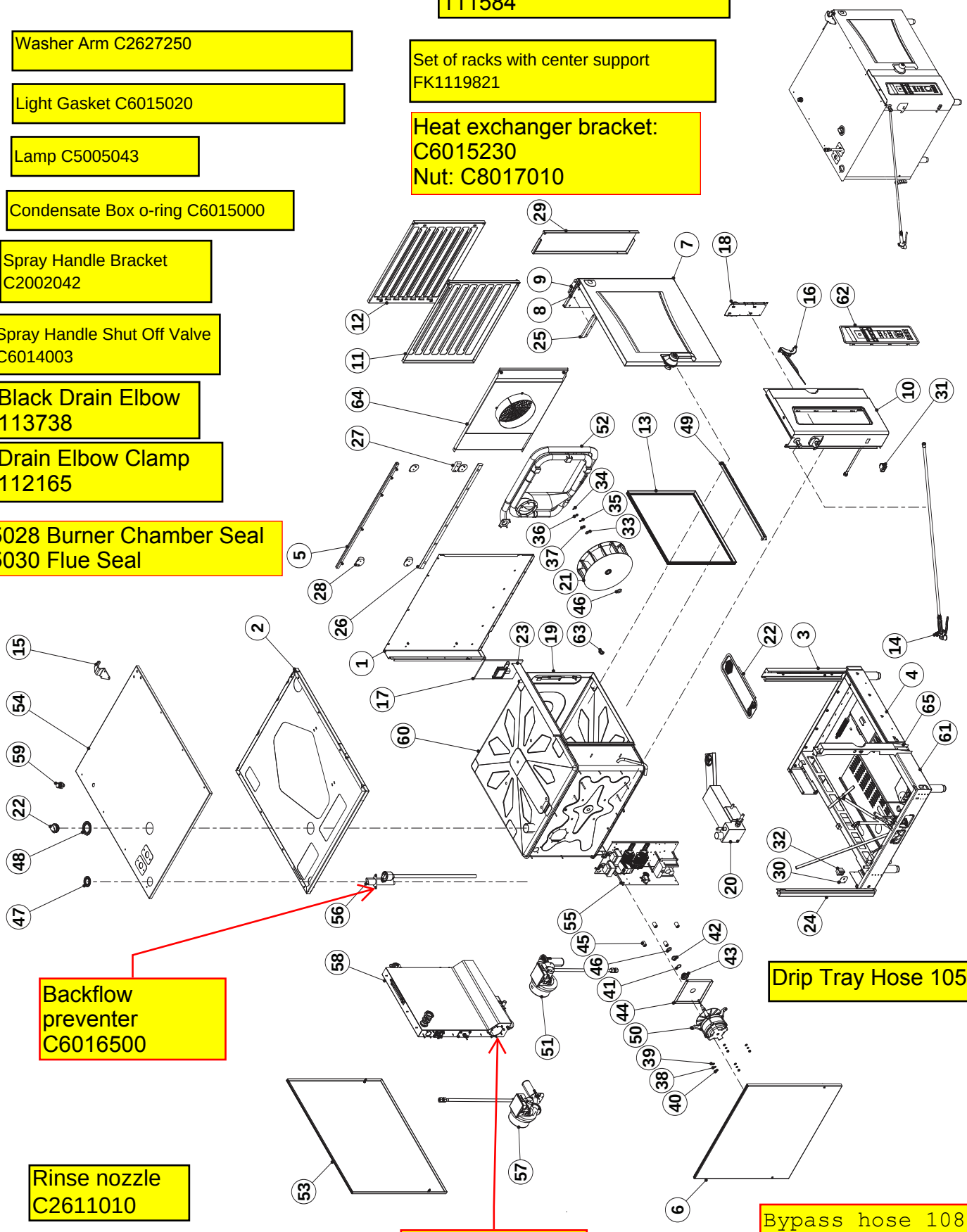
Spray Handle Bracket
C2002042

Spray Handle Shut Off Valve
C6014003

Black Drain Elbow
113738

Drain Elbow Clamp
112165

C6015028 Burner Chamber Seal
C6015030 Flue Seal



red chemical hose C7002002
clear chemical hose C7002006

620 GAS GEN W CLEANING

ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2115482	ASSEMBLY, PANEL, RIGHT SIDE, 6.20
2	1	C2114826	ASSEMBLY/WELDMENT, INTERMEDIATE TOP, 6.20/10.20
3	1	C2115489	ASSEMBLY, CORNER, FRONT, RIGHT, 6.20
4	1	C2114453	WELDMENT, FACEPLATE, LOWER, 6.20/10.20
5	1	C2114690	ASSEMBLY, SLIDE BAR, DISAPPEARING DOOR, X.20
6	1	C2114782	ASSEMBLY, PANEL, LEFT SIDE, 6.20
7	1	C2514351	DOOR 6.20 COMPLETE
8	1	C2614801	SLIDING PLATE VST 6.20 COMPLETE
9	1	C2013006	WELDMENT, HINGE CARRIER, UPPER, DOOR
10	1	C2115442	ASSEMBLY, CORNER, FRONT LEFT, 6.20
11	1	C2214188	PAN RACKS,LEFT, ELECTROPOLISHED, 6.20
11	1	C2214189	PAN RACKS,RIGHT, ELECTROPOLISHED, 6.20
13	1	C7011004	DOOR SEAL, 6.20
14	1	C2216080	ASSEMBLY, HAND SHOWER
15	1	C2614740	ASSEMBLY, GUIDE CLIP, VST, COUNTERTOP MODEL
16	1	C6012001	ASSEMBLY, BLOCK
17	1	C2614841	CAVITY LIGHT
18	1	C26142661	ASSEMBLY, CONTROLLER
19	1	C2614263	ASSEMBLY, CORE TEMPERATURE SENSOR
20	1	C2414125	FINAL ASSEMBLY, CONDENSER
21	1	C6010001	WHEEL, BLOWER, 350mm OD X 110mm WIDE, TYPE 304 SST, 6.20 & 10.10 COMBI
22	1	C2608962	ASSEMBLY, NEGATIVE PRESSURE SAFETY VENT
23	1	C2114732	FACEPLATE, UPPER X.20
24	1	C2114633	CORNER, WELDED, REAR, LEFT, 6.20
25	1	C6012008	SUPPORT STRIP RST
26	1	C2017000	SAFETY RAIL, VST, X.20
27	1	C6012009	GUIDE STRIP, LOWER VST
28	4	C6012011	DOORSTOPPER VA VST
29	1	C2114816	COVER PANEL, DISAPPEARING DOOR RST 6.20
30	1	C2114798	BRACKET, HIGH LIMIT, STEAM GENERATOR
31	1	C5001041	SAFETY TEMPERATURE LIMITER, 340ºC
33	1	111544	WASHER, BELLEVILLE, M10, SMOOTH, TYPE 301 SST, 10.21mm ID X 24mm OD X 1.85mm THICK
34	1	111543	RING, RETAINING, EXTERNAL, 1/4", STAINLESS STEEL, WALDES #5100-25H
35	1	111542	WASHER, BELLEVILLE, M8, SERRATED BOTH SIDES, SST, 8 x4mm ID X 13mm OD X 0.8mm THICK
36	1	111541	NUT, HEX, LEFT-HAND, M8 X 1.25 (DIN 934L), STAINLESS STEEL
37	1	111540	NUT, HEX, M10 X 1.5 (DIN 934), STAINLESS STEEL
38	4	C8006060	SCHNORR LOCK WASHER
39	4	C8005050	WASHER, 8.4 A2 DIN 125
40	4	C8004057	NUT, HEX, M8 A4
41	1	C6015210	SHIM, WEARING MOTOR SHAFT SEAL
42	1	C6015206	BUSHING, LABYRINTH
43	1	C6015050	SPRING, MOTOR SHAFT SEAL
44	1	C2114140	MOTOR MOUNTING PLATE
45	4	C6015213	SPACER, MOTOR 1.299 (FAN DISTANCE 2.008in)
46	2	C6015021	SEALING RING, MOTOR SHAFT, VITON, COMBI
47	1	C6005048	DIAPHRAGM GROMMET ø 60 mm (DG 48)
48	1	C6005427	DIAPHRAGM GROMMET ø 83 (DG60) FOR VAC. REG. VALVE
49	1	C2018007	DRIP TRAY, DOOR
50	1	C50180211	MOTOR W/STUD, ALL VOLTAGES, 3-PHASE, 4 POLE, 0.6KW, GAS COMBI
51	1	C2614860	BURNER INSERT, 6.20, AIR, COMPLETE, NAT GAS
52	1	C2010032	HEAT EXCHANGER 6.20 WELDED
53	1	C2114742	ASSEMBLY, PANEL, REAR, ELECTRIC & GAS INJ, 6.20
54	1	C2115462	ASSEMBLY, TOP PANEL, GAS GEN, 6.20
55	1	300480	ASSY., COMP. PANEL, OGB 6.20/10.10
56	1	C2114287	ASSEMBLY, AIR OUTLET,
57	1	C2314900	ASSEMBLY, BURNER INSERT, GEN, GAS, 6.20/10.10, NAT
58	1	C2314881	ASSEMBLY, STEAM GENERATOR, GAS 6.20
59	1	109641	PORT ASSY, DESCALER
60	1	C2215026	ASSEMBLY, INNER HOUSING, 6.20, GAS, STEAM GEN, REI, KTM
61	1	C21145471	BASE, 6.20 GAS GEN, W/CLEAN
62	1	C2114296	ASSY, CONTROL PANEL, STEAM GEN, WITH PICTO
63	1	C2016009	COVER, BYPASS
64	1	C2214142	INTAKE PANEL STEAM GENERATOR 6.20, COMPLETE
65	1	C2114718	ASSEMBLY, REINFORCEMENT, DOOR LATCH, 6.20

Oring-C6005068

Rectangle Rail
C2017012

C2018007

2617316

620 GAS INJ W CLEANING

No Descaler cover
111584

Washer Arm C2627250

Set of racks with center support
FK1119821

Light gasket C6015020

Lamp C5005043

Heat exchanger bracket:
C6015230
Nut: C8017010

Condensate Box o-ring C6015000

Spray Handle Bracket
C2002042

Spray Handle Shut Off Valve
C6014003

Heat Exchanger
Gasket: C6015028

Flue Gasket: C6015030

OGS 6.20 Top
C2114707

Drip Tray Hose 105279

red chemical hose C7002002
clear chemical hose C7002006

C3216313 B
0706

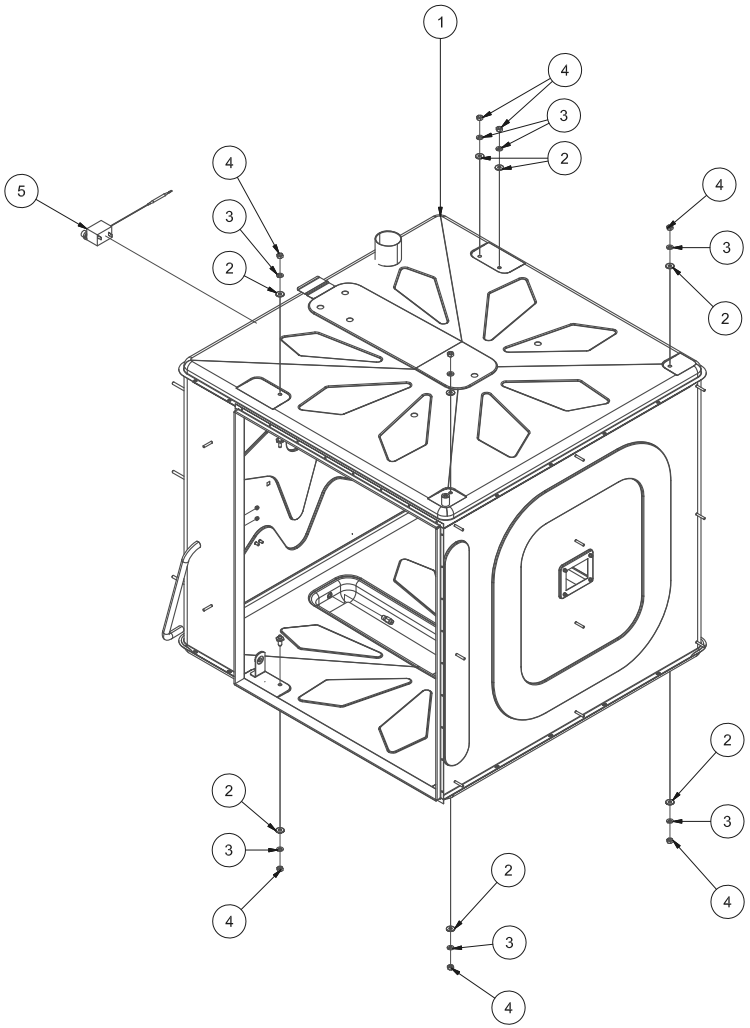
620 GAS INJ W CLEANING

ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2115482	ASSEMBLY, PANEL, RIGHT SIDE, 6.20
2	1	C2114826	ASSEMBLY/WELDMENT, INTERMEDIATE TOP, 6.20/10.20
3	1	C2115489	ASSEMBLY, CORNER, FRONT, RIGHT, 6.20
4	1	C2114453	WELDMENT, FACEPLATE, LOWER, 6.20/10.20
5	1	C2114690	ASSEMBLY, SLIDE BAR, DISAPPEARING DOOR, X.20
6	1	C2114742	ASSEMBLY, PANEL, REAR, ELECTRIC & GAS INJ, 6.20
7	1	C2114782	ASSEMBLY, PANEL, LEFT SIDE, 6.20
8	1	C2115452	ASSEMBLY, TOP PANEL, GAS INJ, 6.20
9	1	C2514351	DOOR 6.20 COMPLETE
10	1	C2614801	SLIDING PLATE VST 6.20 COMPLETE
11	1	C2013006	WELDMENT, HINGE CARRIER, UPPER, DOOR
12	1	C2115442	ASSEMBLY, CORNER, FRONT LEFT, 6.20
13	1	C2214188	PAN RACKS,LEFT, ELECTROPOLISHED, 6.20
14	1	C2214189	PAN RACKS,RIGHT, ELECTROPOLISHED, 6.20
15	1	C7011004	DOOR SEAL, 6.20,
16	1	C2216080	ASSEMBLY, HAND SHOWER
17	1	C2614740	ASSEMBLY, GUIDE CLIP, VST, COUNTERTOP MODEL
18	1	C6012001	ASSEMBLY, BLOCK
19	1	C2614841	CAVITY LIGHT
20	1	C26142661	ASSEMBLY, CONTROLLER
21	1	C2614263	ASSEMBLY, CORE TEMPERATURE SENSOR
22	1	C2414125	FINAL ASSEMBLY, CONDENSER
23	1	C6010001	WHEEL, BLOWER, 350mm OD X 110mm WIDE, TYPE 304 SST, 6.20 & 10.10 COMBI
24	1	C2608962	ASSEMBLY, NEGATIVE PRESSURE SAFETY VENT
25	1	C2114732	FACEPLATE, UPPER X.20
26	1	C2114633	CORNER, WELDED, REAR, LEFT, 6.20
27	1	C6012008	SUPPORT STRIP RST
28	1	C2017000	SAFETY RAIL, VST, X.20
29	1	C6012009	GUIDE STRIP, LOWER VST
30	4	C6012011	DOORSTOPPER VA VST
31	1	C2114816	COVER PANEL, DISAPPEARING DOOR RST 6.20
32	1	C2114798	BRACKET, HIGH LIMIT, STEAM GENERATOR
33	1	19993	SWITCH, ROCKER, DPDT, ON/OFF 15A, 125V
34	1	C5001041	SAFETY TEMPERATURE LIMITER, 340ºC
35	1	111544	WASHER, BELLEVILLE, M10, SMOOTH, TYPE 301 SST, 10.21mm ID X 24mm OD X 1.85mm THICK
36	1	111543	RING, RETAINING, EXTERNAL, 1/4", STAINLESS STEEL, WALDES #5100-25H
37	1	111542	WASHER, BELLEVILLE, M8, SERRATED BOTH SIDES, SST, 8.4mm ID X 13mm OD X 0.8mm THICK
38	1	111541	NUT, HEX, LEFT-HAND, M8 X 1.25 (DIN 934L), STAINLESS STEEL
39	1	111540	NUT, HEX, M10 X 1.5 (DIN 934), STAINLESS STEEL
40	4	C8006060	SCHNORR LOCK WASHER
41	4	C8005050	WASHER, 8.4 A2 DIN 125
42	4	C8004057	NUT, HEX, M8 A4
43	1	C6015210	SHIM, WEARING MOTOR SHAFT SEAL
44	1	C6015206	BUSHING, LABYRINTH
45	1	C6015050	SPRING, MOTOR SHAFT SEAL
46	1	C2114140	MOTOR MOUNTING PLATE
47	4	C6015213	SPACER, MOTOR 1.299 (FAN DISTANCE 2.008in)
48	2	C6015021	SEALING RING, MOTOR SHAFT, VITON, COMBI
49	1	C6005048	DIAPHRAGM GROMMET ø 60 mm (DG 48) P2
50	1	C6005427	DIAPHRAGM GROMMET ø 83 (DG60) FOR VAC. REG. VALVE
51	1	C2018001	DRIP TRAY, DOOR
52	1	C2114296-3	ASSY, CONTROL PANEL, SPRITZER, WITH PICTO
53	1	C2214152	ASSEMBLY, INTAKE PLATE, IN, 6.20
54	1	300488	ASSY., COMP. PANEL, OGS 6.20/10.10
55	1	C2215025	ASSEMBLY, INNER SHELL 6.20, GAS, IN, REI, KTM
56	1	C50180211	MOTOR W/STUD, ALL VOLTAGES, 3-PHASE, 4 POLE, 0.6KW, GAS COMBI
57	1	C2614860	BURNER INSERT, 6.20, AIR, COMPLETE, NAT GAS
58	1	C2010032	HEAT EXCHANGER 6.20 WELDED
59	1	C2114537	BASE, GAS, INJ, 6.20, W/ CLEANING
60	1	C2114292	AIR OUTLET CONECTING PIECE 20.20 GEN. 6.20/10.10/20.20INJ.
61	1	C2016009	COVER, BYPASS
62	1	C2114718	ASSEMBLY, REINFORCEMENT, DOOR LATCH, 6.20

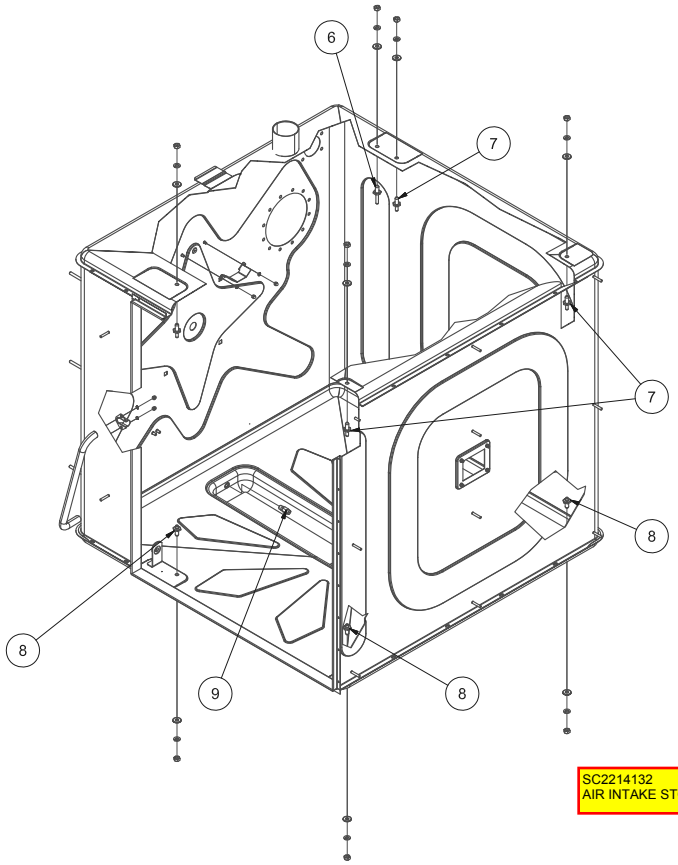
Oring-C6005068

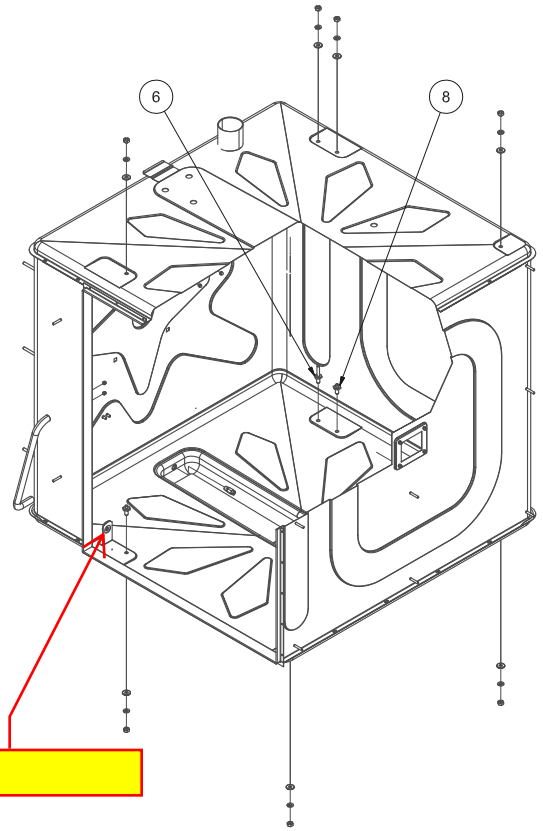
2617316 H/exchanger

X .20 After 4-2011
X .10 After 6-2011
20.20, 12.20 intake panel pins after 9-2011



STEP 1
INSTALLATION OF
PINS AND HI LIMIT





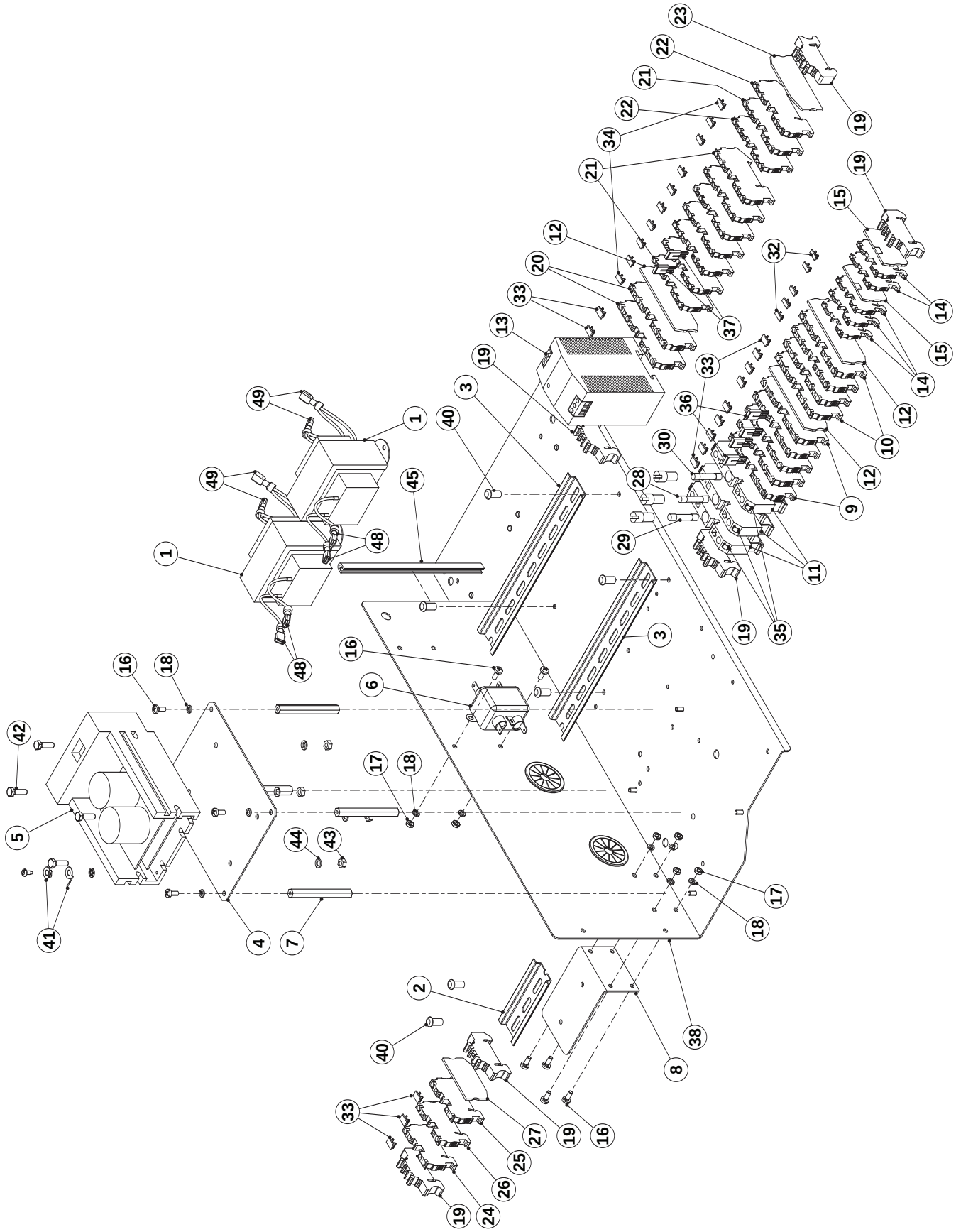
INNER COMPONENTS

FOR VISUAL REFERENCE
WITH BREAK-OUT VIEWS THROUGH THE BODY CAVITY

ITEM	QTY	PART N0.	DESCRIPTION
8	4	113125	PIN, LOWER, PAN RACK, COMBI
7	4	112935	PIN, UPPER, PAN RACK, COMBI
6	2	113126	PIN, INTAKE PANEL, COMBI
5	1	1089952	HI-LIMIT RESET SWITCH (140° C)
4	10	14652	NUT, HEX, 5/16-18, SST
3	10	23106	WASHER, 5/16 LOCK SPLIT RING, MEDIUM, SST
2	10	102513	WASHER FLAT 0.312 I.D, X 0.750 O.D. X .080 THK, S/S
1	1	C2215057	WELDMENT, INNER HOUSING 10.20, GAS, INJ. REI

COMPONENT PANEL ASSEMBLY, Gas

OGB 6.20 & 10.10 MODELS



300480 C
0706

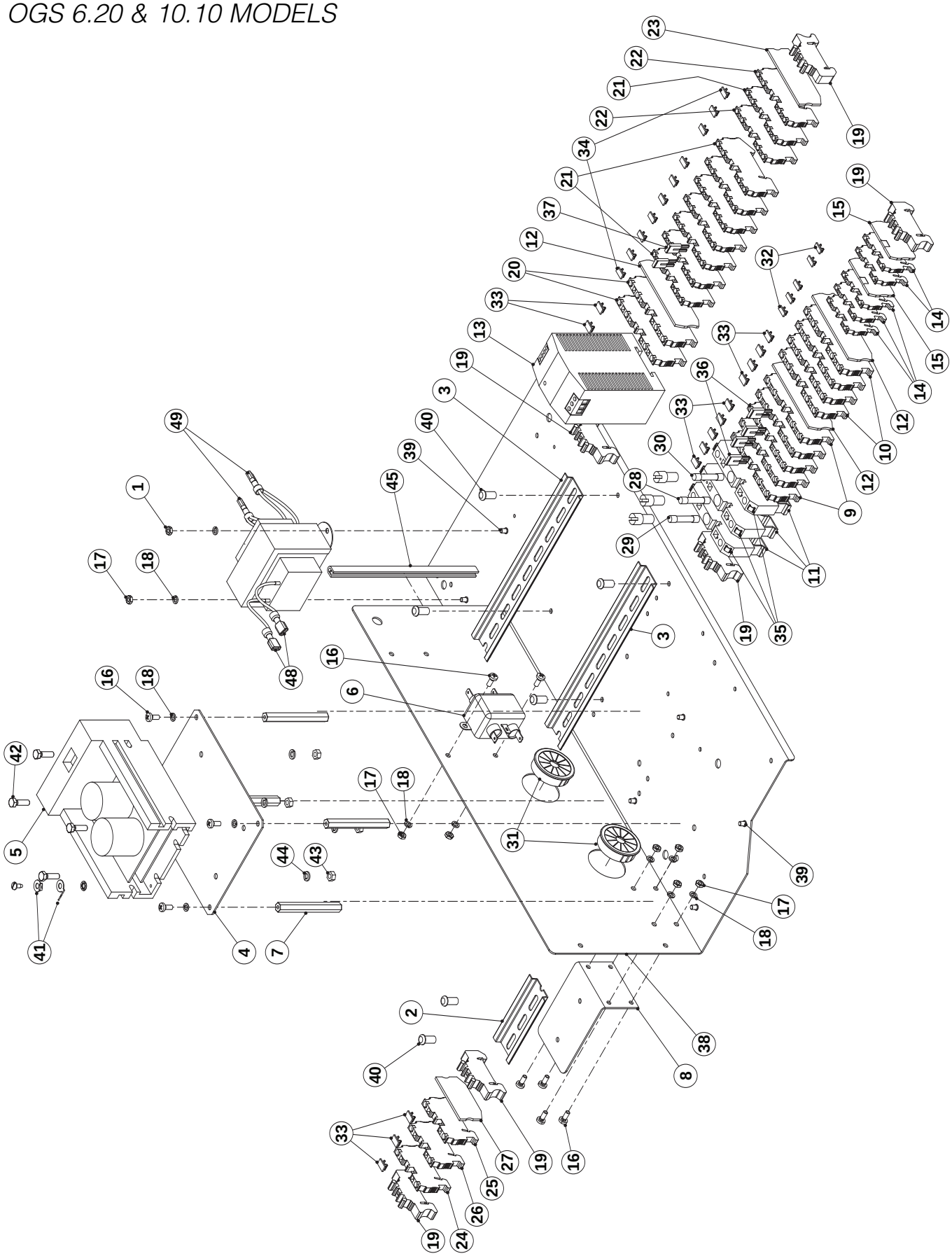
COMPONENT PANEL ASSEMBLY, GAS

OGB 6.20 & 10.10 MODELS

ITEM	QTY	PART N0.	DESCRIPTION
1	2	300419	TRANSFORMER, 24V
2	1	111603	DIN RAIL 3.25"
3	2	111601	DIN RAIL 8.375"
4	1	111526	PLATE, ADAPTER, A.C. DRIVE
5	1	300412	AC DRIVE (6.20-10.10)
6	1	300413	LINE FILTER, 10A
7	4	C8009043	M4 HEX STAND OFF, 70 MM
8	1	C5116110	BRACKET, TERMINAL BLOCK, COMPONENT PANEL
9	5	C4014012	TERMINAL BLOCK, SPRING-LOADED, FOUR-WIRE, BLUE
10	4	C4014006	TERMINAL BLOCK, CONDUCTOR, SPRING-LOADED
11	3	C4014037	DINRAIL MOUNTED FUSEHOLDER (6.3X32)
12	3	C4014011	COVER, FOUR-WIRE
13	1	300350	POWER SUPPLY (12V)
14	5	C4014030	TERMINAL BLOCK, SPRING LOADED, 1.5MM2
15	2	C4014031	COVER 2.5 MM2
16	14	C8001024	SCREW, FILISTER HD, M4x10 DIN 7985
17	6	111605	M4 NUT
18	14	111606	M4 LOCK WASHER
19	6	C4014000	SNAP-ON END BRACKET
20	2	C4014013	TERMINAL BLOCK, SPRING- LOADED, FOUR-WIRE
21	8	C4014010	TERMINAL, SPRING LOADED, FOUR WIRE, 2.5 MM2
22	2	C4014009	TERMINAL BLOCK, SPRING LOADED, 1.5 MM2, BLUE
23	1	C4014008	COVER FOUR-WIRE 2.5 MM2
24	1	C4014024	TERMINAL, FEED THROUGH, 4 MM2
25	1	C4014016	TERMINAL, GROUNDED, SPRING LOADED, 2.5 MM2
26	1	C4014023	TERMINAL, FEED THROUGH,4MM2, BLUE
27	1	C4014020	COVER 4 MM2
28	1	300418	FUSE MDA-1
29	1	300416	FUSE MDA-2
30	1	KE52936-9	FUSE, MDA-15
32	5	C4014033	LABEL BLANK, TERMINAL BLOCK, ZB4
33	14	C4014044	LABEL, BLANK, TERMINAL BLOCK, ZB6
34	10	C4014032	SERRATED COVER STRIP,PLAIN ZB5
35	6	C4014039	LABEL BLANK, TERMINAL BLOCK, ZBF6
36	4	C4014001	JUMPER, 2 PIN
37	2	C4014002	JUMPER 2-PIN
38	1	C5115400	PANEL, ELECTRICAL COMPONENT 6.10/6.20/10.10
40	6	106123	SCREW, 10-32 X 1/2, TORX/ PAN HD, THRD FORMING, ZN
41	2	20323	RING TO MALE TAB TERMINAL
42	4	C8003095	HEXAGON BOLT, M5x16, A2 HUD 20.20
43	4	C8004030	HEXAGON NUT, M5
44	4	C8006030	RING, SPRING RETAINER, B5, A2
45	1	C700106606000	EDGE GUARD
46	1	300483	WIRE HARNESS, 6.20/10.10 OGS 300490
47	1	300501	WIRE HARNESS, POWER, OGB/OGS 6.20/10.10
48	4	20370	TERM., FULL INSUL, MALE, 0.250 TAB
49	4	300231	TERM., FULL INSUL, FEMALE, 0.250 TAB
57	2	111751	BUSHING, UNIVERSAL,1.5DIA HOLE,HEYCO#2213,SNAP-IN UL
58	4	106127	SCREW, 6-32 X 1/2, TORX/PAN HD

COMPONENT PANEL ASSEMBLY, GAS

OGS 6.20 & 10.10 MODELS



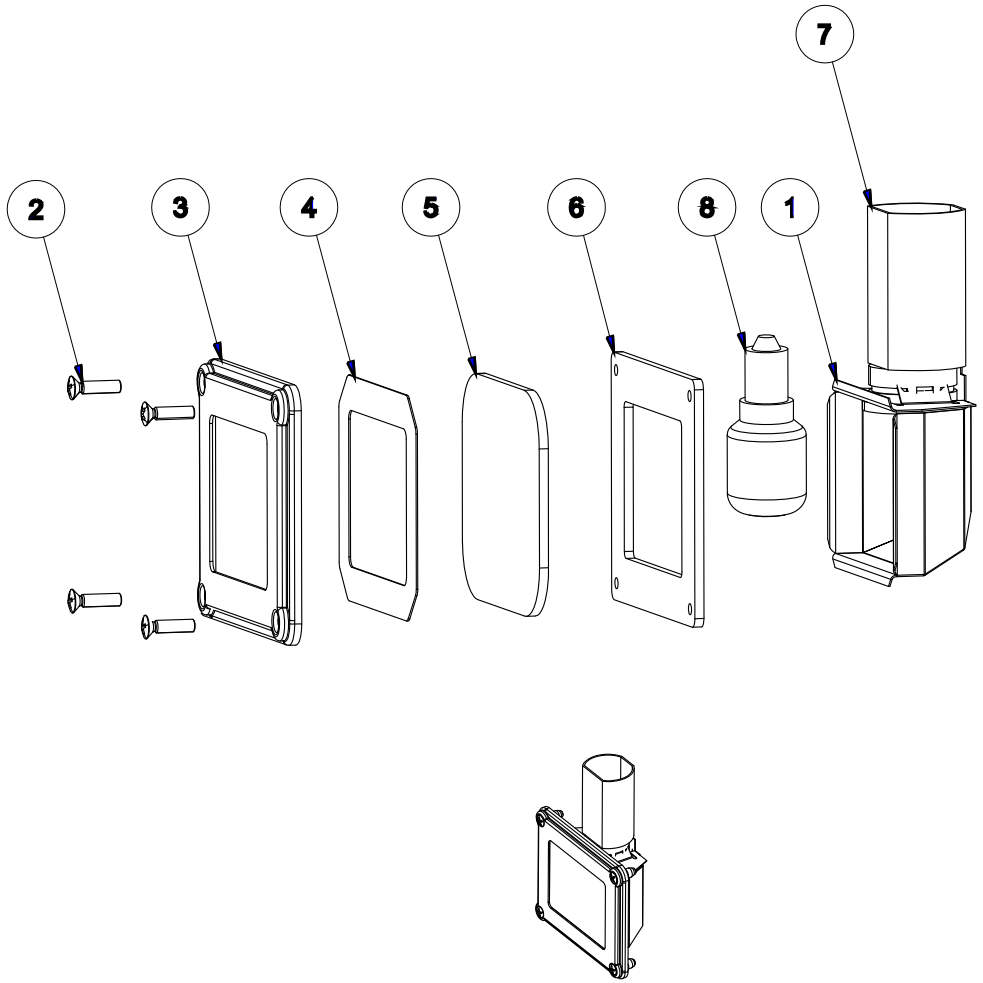
300488 C
0706

COMPONENT PANEL ASSEMBLY, GAS

OGS 6.20 & 10.10 MODELS

ITEM	QTY	PART N0.	DESCRIPTION
1	1	300419	TRANSFORMER, 24V
2	1	111603	DIN RAIL 3.25"
3	2	111601	DIN RAIL 8.375"
4	1	111526	PLATE, ADAPTER, A.C. DRIVE (NOT SHOWN)
5	1	300412	AC DRIVE (6.20-10.10) (NOT SHOWN)
6	1	300413	LINE FILTER, 10A
7	4	C8009043	M4 HEX STAND OFF, 70 MM
8	1	C5116110	BRACKET, TERMINAL BLOCK, COMPONENT
9	5	C4014012	TERMINAL BLOCK, SPRING-LOADED, FOUR-WIRE, BLUE
10	4	C4014006	TERMINAL BLOCK, CONDUCTOR, SPRING-LOADED
11	3	C4014037	DINRAIL MOUNTED FUSEHOLDER (6.3X32)
12	3	C4014011	COVER, FOUR-WIRE
13	1	300350	POWER SUPPLY (12V)
14	5	C4014030	TERMINAL BLOCK, SPRING LOADED, 1.5MM2
15	2	C4014031	COVER 2.5 MM2
16	10	C8001024	SCREW, FILISTER HD, M4x10 DIN 7985
17	8	111605	M4 NUT
18	12	111606	M4 LOCK WASHER
19	6	C4014000	SNAP-ON END BRACKET
20	2	C4014013	TERMINAL BLOCK, SPRING- LOADED, FOUR-WIRE
21	8	C4014010	TERMINAL, SPRING LOADED, FOUR WIRE, 2.5
22	2	C4014009	TERMINAL BLOCK, SPRING LOADED, 1.5 MM2,
23	1	C4014008	COVER FOUR-WIRE 2.5 MM2
24	1	C4014024	TERMINAL, FEED THROUGH, 4 MM2
25	1	C4014016	TERMINAL, GROUNDED, SPRING LOADED, 2.5 MM2
26	1	C4014023	TERMINAL, FEED THROUGH,4MM2, BLUE
27	1	C4014020	COVER 4 MM2
28	1	300418	FUSE MDA-1
29	1	300416	FUSE MDA-2
30	1	KE52936-9	FUSE, MDA-15
31	2	111751	BUSHING, UNIVERSAL,1.5DIA HOLE,HEYCO# 2213, SNAP-IN UL
32	5	C4014033	LABEL BLANK, TERMINAL BLOCK, ZB4
33	14	C4014044	LABEL, BLANK, TERMINAL BLOCK, ZB6
34	10	C4014032	SERRATED COVER STRIP,PLAIN ZB5
35	6	C4014039	LABEL BLANK, TERMINAL BLOCK, ZBF6
36	4	C4014001	JUMPER, 2 PIN
37	2	C4014002	JUMPER 2-PIN
38	1	C5115400	PANEL, ELECTRICAL COMPONENT 6.10/6.20/10.10
39	6	C8001022	STUD, WELD, M4 X 6, CD, SST
40	6	106123	SCREW, 10-32 X 1/2, TORX/ PAN HD, THRD FORMING, ZN
41	2	20323	RING TO MALE TAB TERMINAL
42	4	C8003095	HEXAGON BOLT, M5x16, A2 HUD 20.20
43	4	C8004030	HEXAGON NUT, M5
44	4	C8006030	RING, SPRING RETAINER, B5, A2
45	1	C700106606000	EDGE GUARD
46	1	300490	WIRE HARNESS,OGS, 6.20/10.10
47	1	300501	WIRE HARNESS, POWER, OGB/OGS 6.20/10.10
48	2	20370	TERM.,FULL INSUL, MALE, 0.250 TAB
49	2	300231	TERM., FULL INSUL, FEMALE, 0.250 TAB

Light Assembly

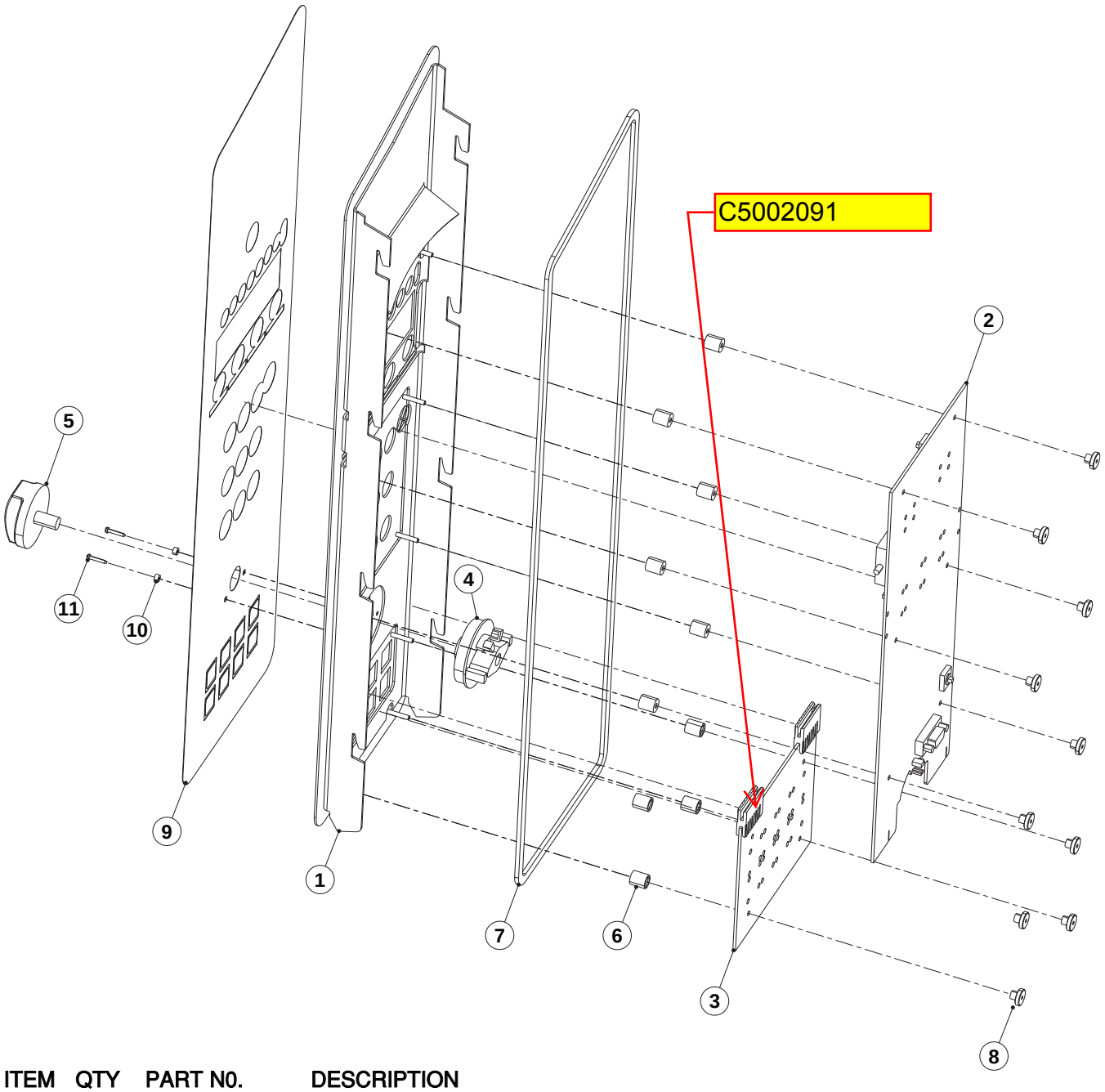


ITEM	QTY	PART NO.	DESCRIPTION
8	1	C5005045 C5005043	BULB, LIGHT, 25W, 230V (ELECTRIC UNITS) BULB, LIGHT, 25W, 120V (GAS UNITS)
7	1	C8019006	PROTECTION CAP, CAVITY LIGHT
6	1	C6015018	SEAL, CAVITY LIGHT, 3mm
5	1	C5015005	GLASS, CAVITY LIGHT
4	1	C6015063	SEAL, CAVITY LIGHT, 0.5mm
3	1	C5015006	FRAME, CAVITY LIGHT
2	4	C8002025	ROUNDED COUNTERSUNK HEAD SCREW M4X16
1	1	C5015001	REFLECTOR HOUSING, CAVITY LIGHT

Before 4-2011 use
C2618780
Contains Items 3,4,5, & 6.

ASSEMBLY, CONTROL PANEL, WITH PICTO

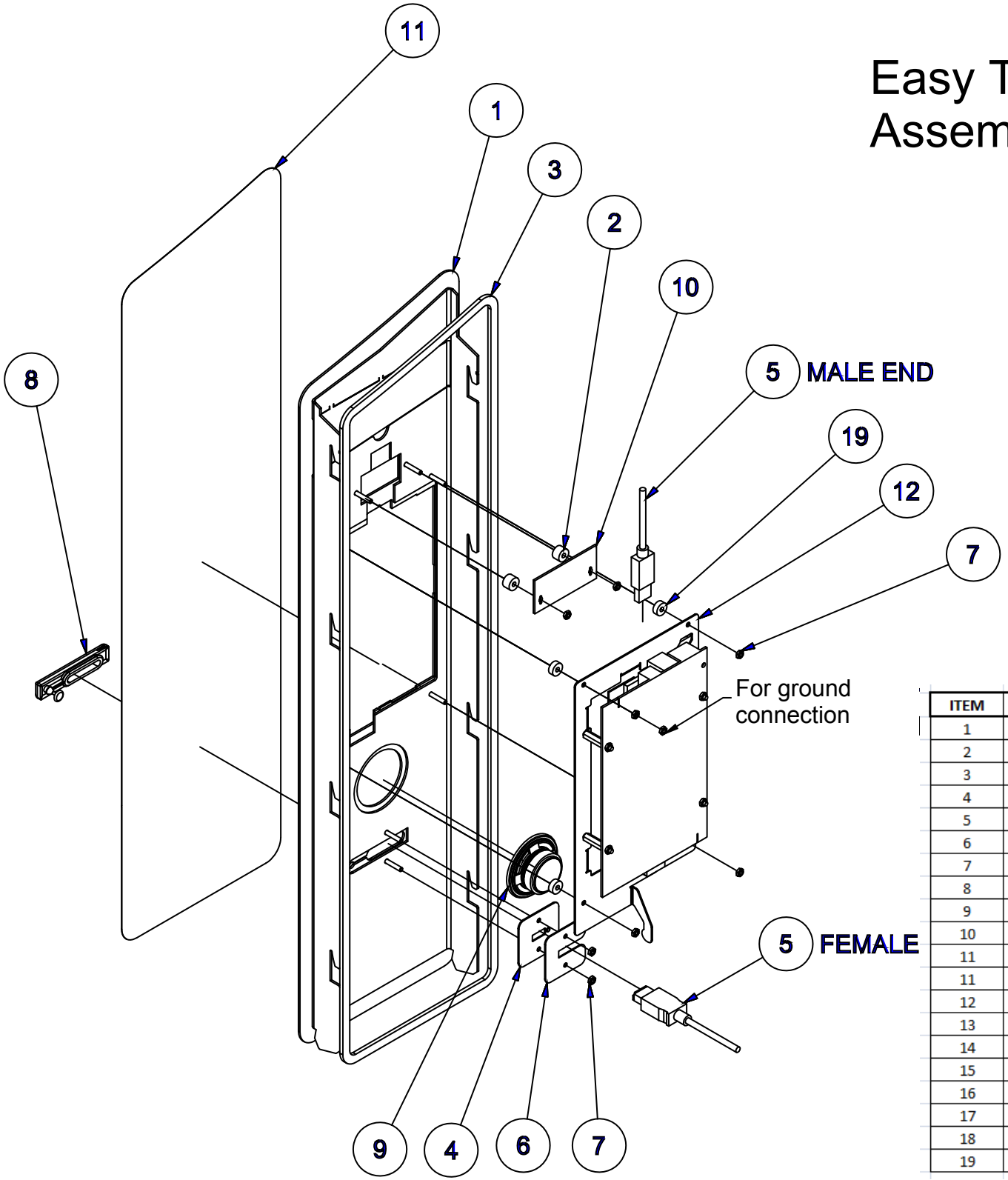
ALL MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2114297	WELDMENT, CONTROL PANEL
2	1	C5019101	CONTROLLER, 5010 OPERATING MODULE
3	1	C5019105	CONTROLLER, 5010 PICTOMODULE PICTO
4	1	~~C5009313~~	LATCH ROCKER
5	1	~~C5009314~~	KNOB, SELECTOR, COMBI
6	10	C8009030	SPACER, CONTROL PANEL
7	1	C7011010	GASKET, FRONT PLATE
8	10	C6005254	NUT, KNURLED
9	1	111588	LABEL, CONTROL PANEL, STEAM GEN, WITH PICTO
	1	111590	LABEL, CONTROL PANEL, SPRITZER, WITH PICTO
10	2	C6005270	SPACER, CONTROL KNOB STOP
11	2	C8007013	SLOTTED PAN-HEAD TAPPING SCREW 2.2 X 13
12	1	300533	CABLE, CONNECTING, CONTROL (NOT SHOWN)

114146

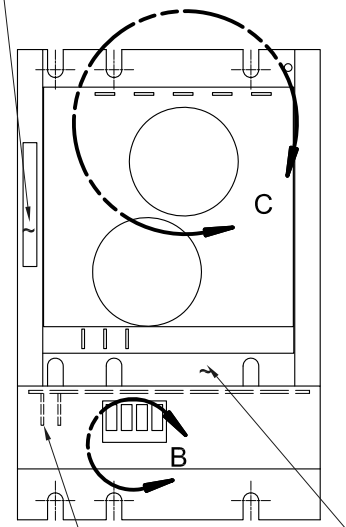
Easy Touch Panel Assembly



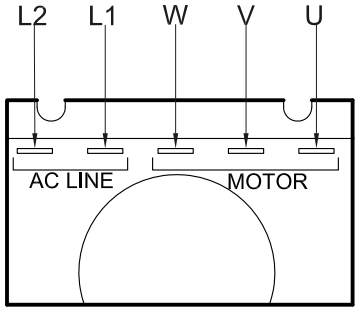
ITEM	QTY	PART NO	DESCRIPTION
1	1	C2126209	EASY TOUCH PANEL WELDMENT
2	2	C8019031	6.5 MM SPACER
3	1	C7011010	FRONT PLATE GASKET
4	1	C2124898	USB SOCKET PLATE
5	2	C5019333	USB CABLE 600MM LONG
6	1	C2124899	USB SOCKET RETAINER
7	9	C8004012	M3 HEXAGON NUT
8	1	C6016521	USB PLUG
9	1	C5019327	LOUDSPEAKER ASSEMBLY
10	1	C5019328	MAIN SWITCH
11	1	113234	LABEL GENERATOR
11	1	113233	LABEL SPRITZER
12	1	FKC2128695	TOUCHSCREEN CONTROLLER
13	2	23421	CABLE MOUNTING CLIP
14	1	300694	SD CARD
15	1	3007871800	SPLIT LOOM 18" LONG
16	2	300794	WIRE NUT
17	1	C5019322	DATA CABLE
18	1	C5019323	12V CABLE
19	4	C8019037	SPACER 4MM

2.4 amp AC Drive before 6/2012

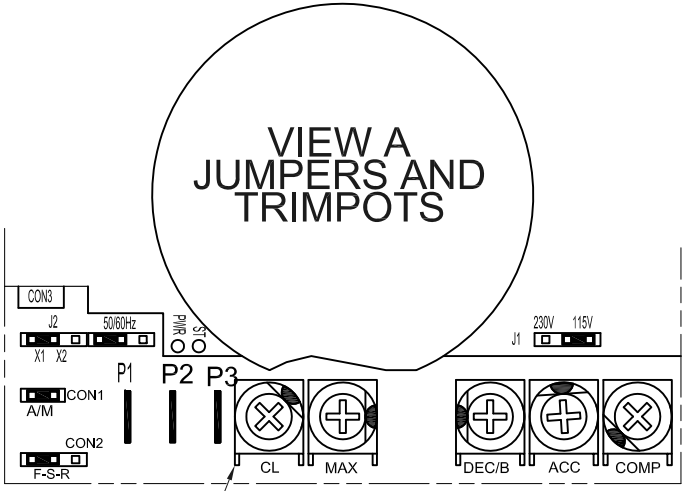
SEE SPECIFICATION
FOR REVISION NUMBER

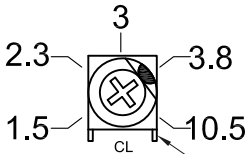


SEE VIEW A



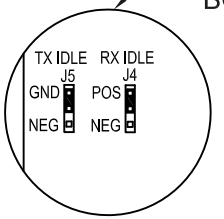
DETAIL C

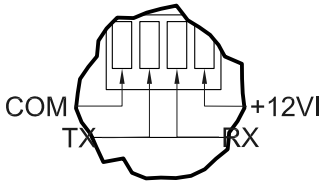




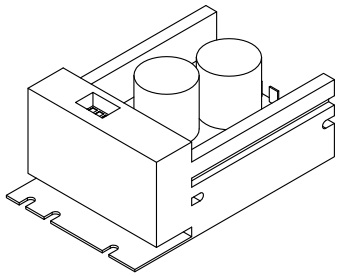
MODEL 23D
CURRENT LIMIT (CL)
TRIMPOT POSITION

DIVF ISOLATION
BOARD JUMPER DETAIL





DETAIL B



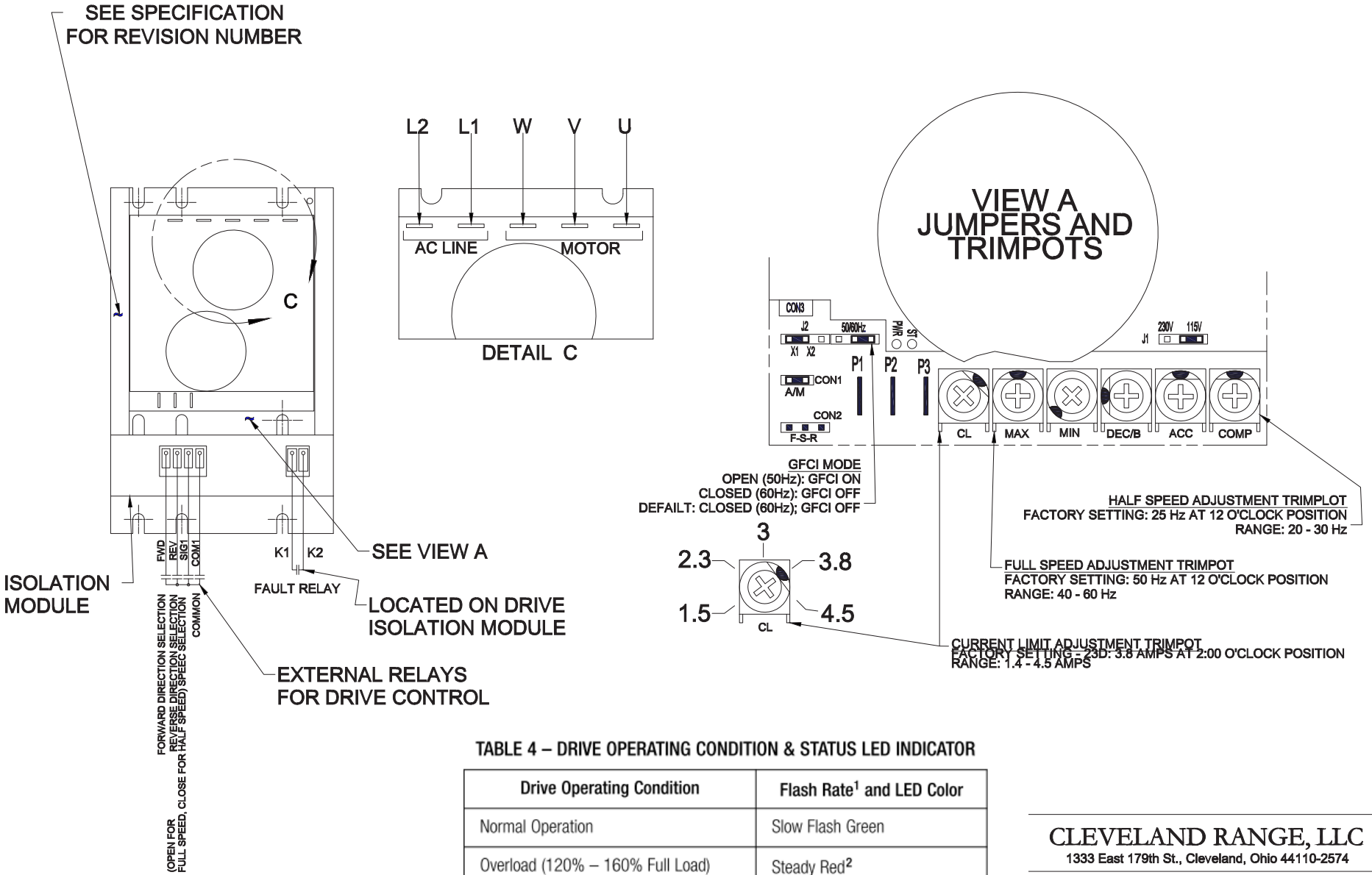
SPECIFICATION:

ITEM: AC DRIVE
INPUT : 115/230 VAC, 50/60Hz, Ø, 11.0/7.0 AMPS
OUTPUT: 0-230 VAC, 0-50/60 HZ, 3Ø
RATED OUTPUT CURRENT: 2.4A
REVISION: 12/1.07

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

TOLERANCES (UNLESS OTHERWISE NOTED)	DO NOT SCALE PRINTED DRAWING	DRAWN BY CWH	DATE 6/2/2005
DECIMAL ± 0.030	TITLE AC DRIVE, 2.4 AMP		
ANGULAR ± 1˚	SIZE B	DRAWING NO. 300412	SHEET 1 OF 1 / REV D

2.4 Amp AC Drive After 6/2012



SPECIFICATION:

ITEM: AC DRIVE
INPUT : 115/230 VAC, 50/60Hz, Ø, 11
OUTPUT: 0-230 VAC, 0-50/60 HZ, 3Ø
RATED OUTPUT CURRENT: 2.4A
REVISION: 07/2.82

TABLE 4 – DRIVE OPERATING CONDITION & STATUS LED INDICATOR

Drive Operating Condition	Flash Rate[1] and LED Color
Normal Operation	Slow Flash Green
Overload (120% – 160% Full Load)	Steady Red[2]
I^2t (Drive Timed Out)	Quick Flash Red
Short Circuit	Slow Flash Red
Undervoltage	Quick Flash Red / Yellow[3]
Overvoltage	Slow Flash Red / Yellow[3]
Stop	Steady Yellow

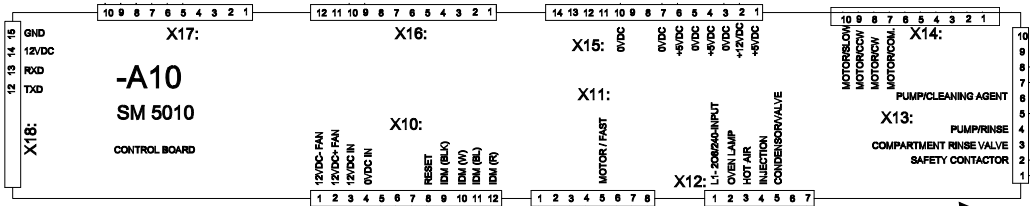
CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574

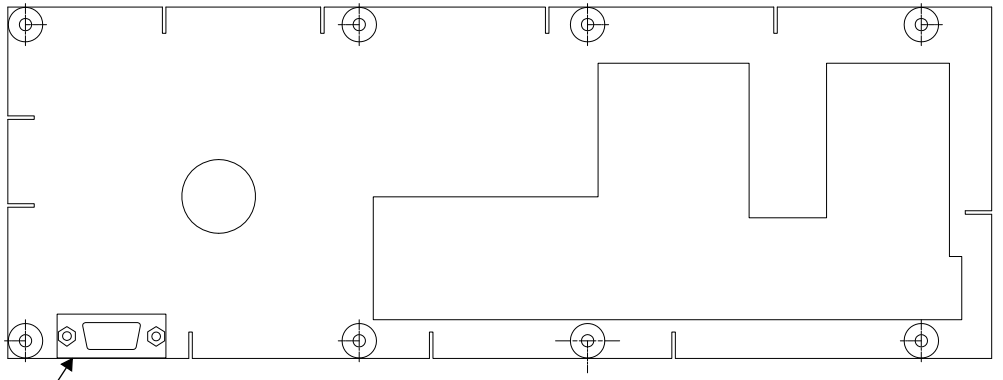
DO NOT SCALE PRINTED DRAWING	DRAWN BY	DATE
	CWH	5/17/2012

TITLE: AC DRIVE, 2.4 AMP

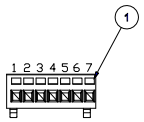
SIZE	DRAWING NO.	SHEET	REV
B	300925	1 OF 1	A

CONTROL RELAY BOARD
FKC5019100-XXX
XXX=Current program version



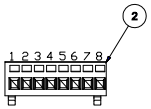


CONNECTOR VIEWS



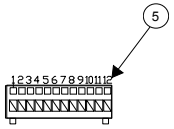
WIRE INSERTION VIEW

A10:X12



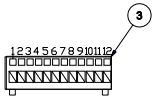
WIRE INSERTION VIEW

A10:X11



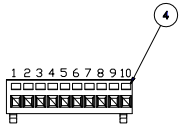
WIRE INSERTION VIEW

A10:X17



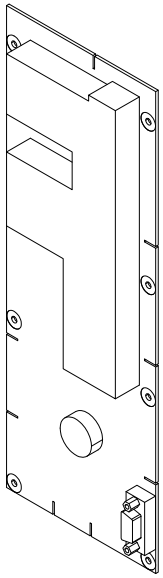
WIRE INSERTION VIEW

A10:X10,
A10:X15
A10:X16



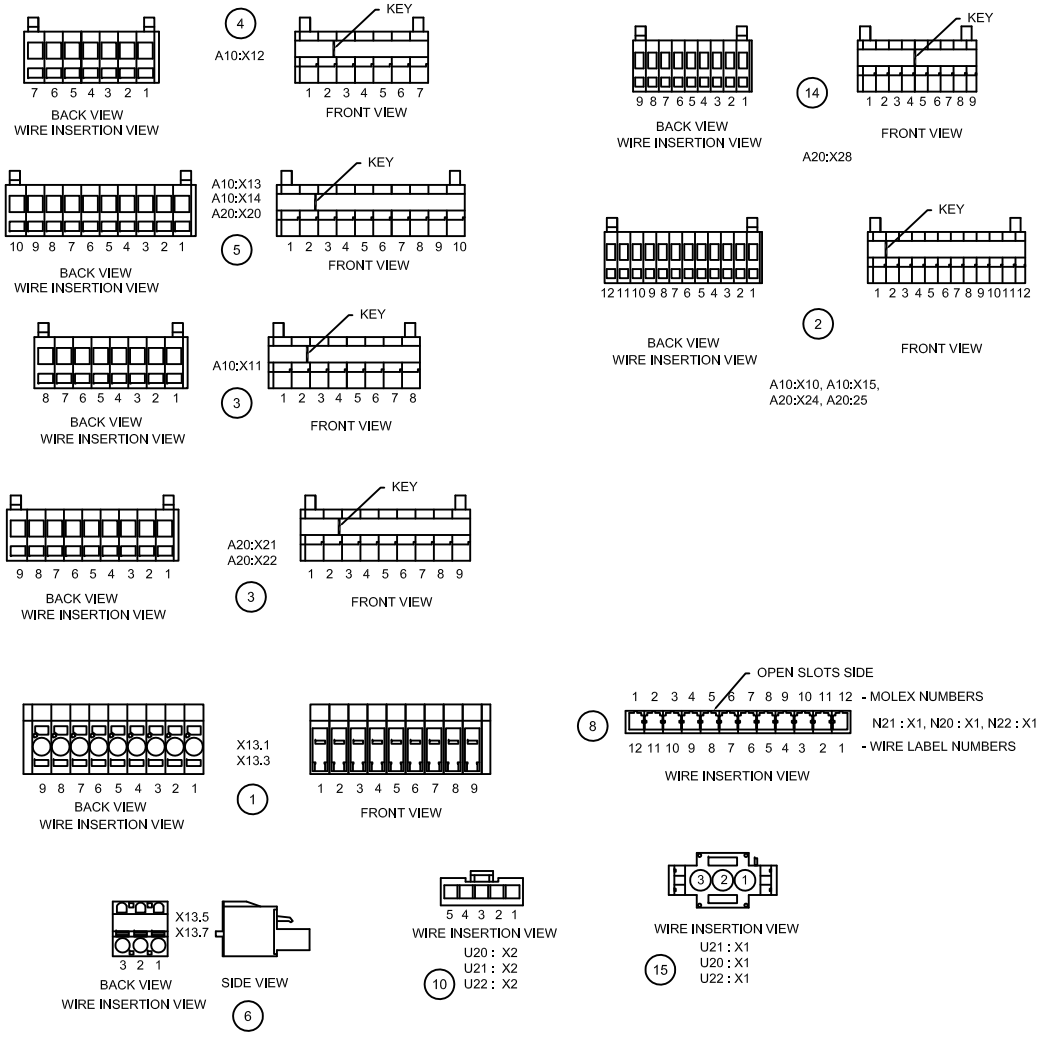
WIRE INSERTION VIEW

A10:X13



ITEM	QTY	PART NO.	DESCRIPTION
1	1	C5012001	7 PIN CONNECTOR
2	1	C5012002	8 PIN CONNECTOR
3	1	C5012003	12 PIN CONNECTOR
4	1	C5002094	10 PIN CONNECTOR
5	1	C5012004	12 PIN CONNECTOR

WIRE CONNECTION TABLE



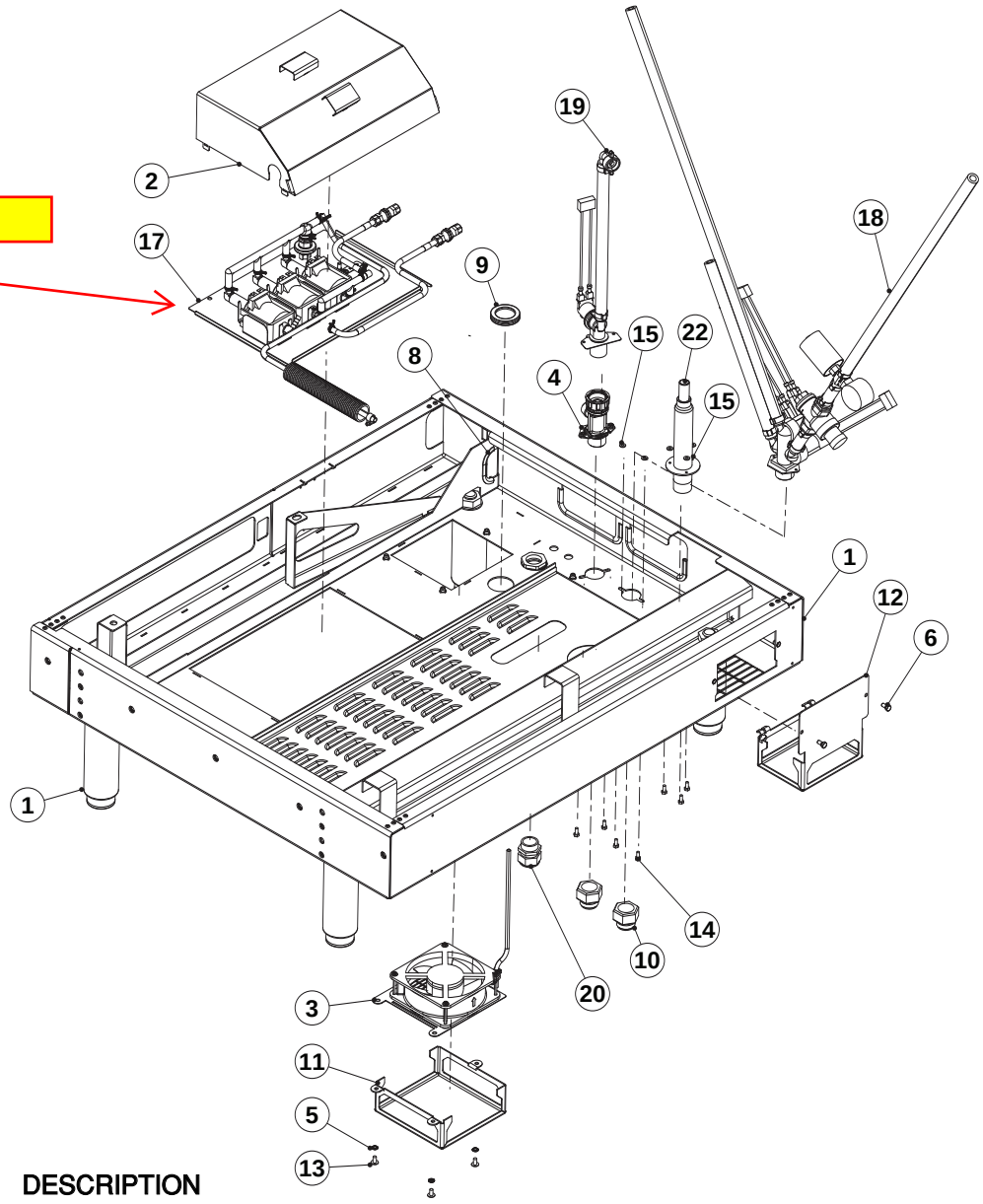
ITEM	QTY	PART NO.	DESCRIPTION
15	3	-	PLUG, AMP 350766-1 (U20:X1, U21: X1, U22:X1)
14	1	C5012015	PHOENIX, ZEC 1,0/9-ST-3,5 C4 R1.9 (A20:X28)
13	-	-	-
12	2	C5002090	PHOENIX 1883116 (A20:X21, A20:X22)
11	9	-	MOLEX 39-00-0039 SOCKET (U20:X2, U21:X2, U22:X2)
10	3	-	MOLEX 39-01-4050 HOUSING (U20:X2, U21:X2, U22:X2)
9	27	-	MOLEX 08-50-0106 (SOCKET N20, N21, N22)
8	3	-	MOLEX 10-01-1124 HOUSING N20, N21, N22
7	-	-	-
6	2	C4014069	PHOENIX 1910364 (X13.5, ,X13.7)
5	3	C5002094	PHOENIX 1883129 (A10:X13, A10:X14, A20:X20)
4	1	C5012001	PHOENIX 1883093 (A10:X12)
3	1	C5012002	PHOENIX 1883103 (A10:X11)
2	4	C5012003	PHOENIX 1893782 (A10:X10, A10:X15, A20:X24, A20:X25)
1	2	C4014071	PHOENIX 3041383 (X13.1) (X13.3)

BASE, GAS, INJECTOR, WITH CLEANING

OGS 10.10 MODELS

11000115744

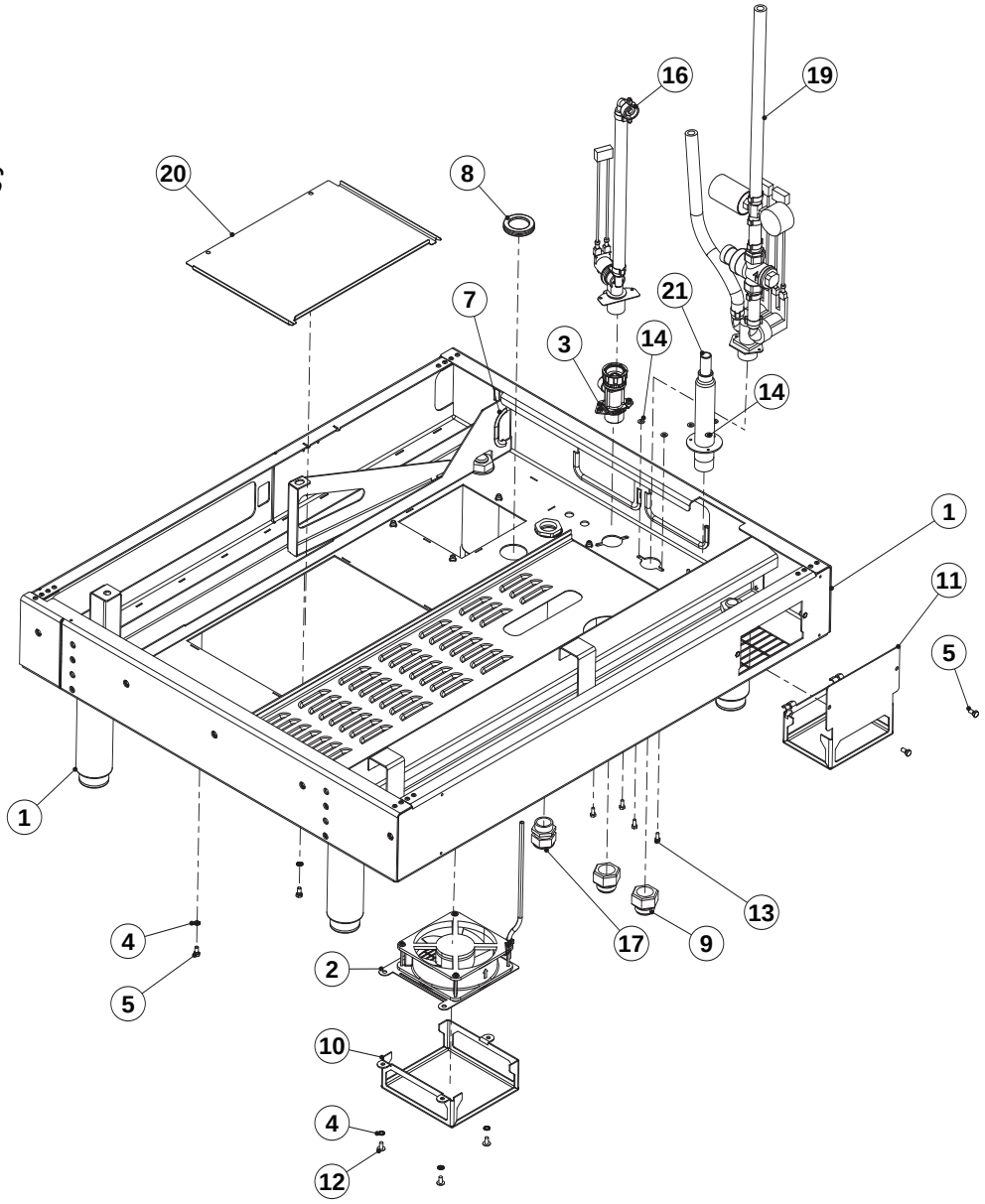
Pressure Switch C5013052
Agent Pump 300352



ITEM	QTY	PART N0.	DESCRIPTION
32	1	C5016002	LOCKNUT M25
31	1	C700106607000-1	EDGE PROTECTOR, CUT 7.000"
30	1	C700106607000	EDGE PROTECTOR, CUT 7.000"
22	1	C2010066	CONNECTION, GAS, SINGLE 3/4"
20	1	C5016001	FITTING, ELECTRICAL, LIQUID TIGHT
19	1	C2016147	CONDENSER HOSE ASSY, GAS
18	1	C2016130	ASSY, WATER VALVE, GAS, 10.10
17	1	C2616452	BOTTOM FLAP, PUMP HOUSING GAS 10.10 110V PREASSEMBLED (NOT SHOWN)
16	1	C5215897	CABLE HARNESS, ILLUMINATION
15	5	C8005021	WASHER, 4.3, DIN 125
14	7	C8013004	HEXAGON BOLT M4 X 10
13	3	C8003029	MLF, SCREW, M5x10
12	1	111551	TRAY, DRIP, FAN, REAR, ELECTRIC & GAS INJ, 6.10/10.10
11	1	111522	TRAY, DRIP, FAN, FRONT, 6.20/20.20/10.10
10	2	111538	ADAPTER, 3/4-14 BSPP FEMALE X 3/4 GHT MALE, GH
9	1	C6005021	RUBBER BUSHING 42 MM OD
8	1	C70016603000	EDGE PROTECTOR, CUT 3.000"
6	4	C8003035	HEXAGON BOLT M5X10
5	5	C8006058	SCHNORR LOCK WASHER
4	1	C5011003	CONNECTION FLANGE
3	1	C2216088	AIR INLET BOX FINAL ASSEMBLY
2	1	C2114699	ASSEMBLY, TOP COVER, PUMP HOUSING, AUTO CLEAN SYSTEM
1	1	C2114520	OUTER BASE, EL, 6.10/10.10

BASE, GAS, INJECTOR, NO CLEANING

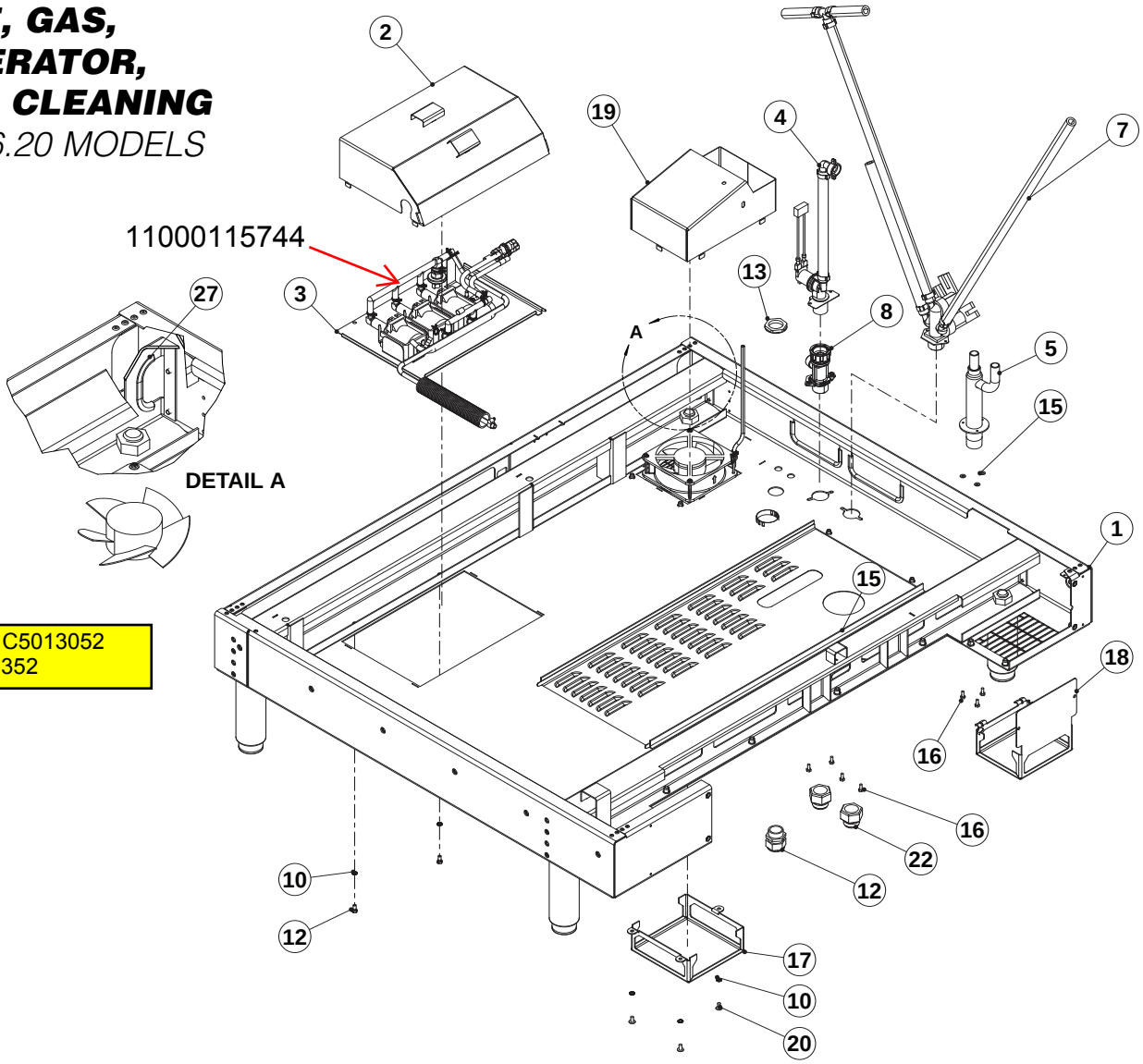
OGS 10.10 MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2114520	OUTER BASE, EL, 6.10/10.10
2	1	C2216088	AIR INLET BOX FINAL ASSEMBLY
3	1	C5011003	CONNECTION FLANGE
4	5	C8006058	SCHNORR LOCK WASHER
5	4	C8003035	HEXAGON BOLT M5X10
7	1	C70016603000	EDGE PROTECTOR, CUT 3.000
8	1	C6005021	RUBBER BUSHING 42 MM OD"
9	2	111538	ADAPTER, 3/4-14 BSPP FEMALE X 3/4 GHT MALE, GH
10	1	111522	TRAY, DRIP, FAN, FRONT, 6.20/20.20/10.10
11	1	111551	TRAY, DRIP, FAN, REAR, ELECTRIC & GAS INJ, 6.10/10.10
12	3	C8003029	MLF, SCREW, M5x10
13	7	C8013004	HEXAGON BOLT M4 X 10
14	5	C8005021	WASHER, 4.3, DIN 125
15	1	C5215897	CABLE HARNESS, ILLUMINATION
16	1	C2016147	CONDENSER HOSE ASSY, GAS
17	1	C5016001	FITTING, ELECTRICAL, LIQUID TIGHT
19	1	C2016131	ASSEMBLY, WATER VALVE, ELECTRIC INJECTOR, 6.20
20	1	C2114626	COVER, BOTTOM, PUMP HOUSING
21	1	C2010066	CONNECTION, GAS, SINGLE 3/4"
32	1	C700106607000	EDGE PROTECTOR, CUT 7.000"
33	1	C700106607000-1	EDGE PROTECTOR, CUT 7.000"
34	1	C5016002	LOCKNUT M25

BASE, GAS, GENERATOR, WITH CLEANING

OGB 6.20 MODELS

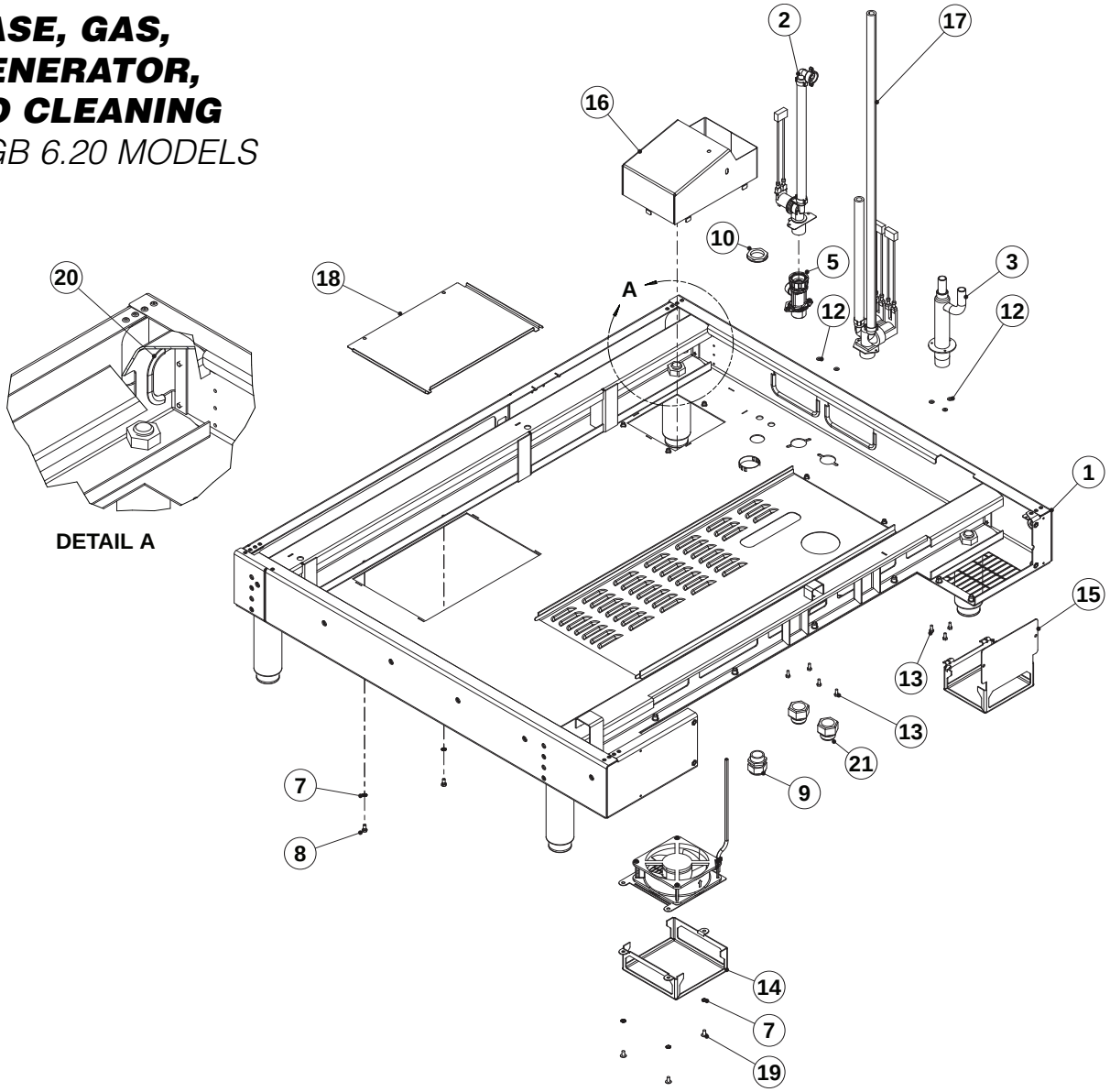


Pressure Switch C5013052
Agent Pump 300352

ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2114542	ASSEMBLY, OUTER BASE, GAS, STEAM GEN, 6.20/10.20
2	1	C2114699	ASSEMBLY, TOP COVER, PUMP HOUSING, AUTO CLEAN SYSTEM
3	1	C2616451	BOTTOM FLAP, PUMP HOUSING, GAS, 6.20, 110V
4	1	C2016147	CONDENSER HOSE ASSY, GAS
5	1	C2010068	DOUBLE GAS CONNECTION R 3/4"
7	1	C2016129	ASSEMBLY, WATER VALVE, GAS, 6.20, GEN W / CLEANING SYSTEM
8	1	C5011003	CONNECTION FLANGE
10	5	C8006058	SCHNORR LOCK WASHER
11	2	C8003035	HEXAGON BOLT M5X10
12	1	C5016001	FITTING, ELECTRICAL, LIQUID TIGHT
13	1	C5016002	LOCKNUT, M25,
15	5	C8005021	WASHER, 4.3, DIN 125
16	7	C8013004	HEXAGON BOLT M4 X 10
17	1	111522	TRAY, DRIP, FAN, FRONT, 6.20/20.20/10.10
18	1	111524	TRAY, DRIP, FAN, REAR, 6.20/20.20
19	1	C2116092	BOX, AIR INTAKE
20	3	C8003029	MLF, SCREW, M5x10
21	1	C70016603000	EDGE PROTECTOR, CUT 3.000"
22	2	111538	ADAPTER, 3/4-14 BSPP FEMALE X 3/4 GHT MALE, GH
23	1	C5215897	CABLE, HARNESS, ILLUMINATION
27	1	111752	PLUG, 1.500 DIA, HOLE, SNAP-IN
28	1	C2216090	FAN, AIR INLET BOX ASSEMBLY
29	1	C700106607000	EDGE PROTECTOR, CUT 7.000"
30	1	C700106607000-1	EDGE PROTECTOR, CUT 7.000"

BASE, GAS, GENERATOR, NO CLEANING

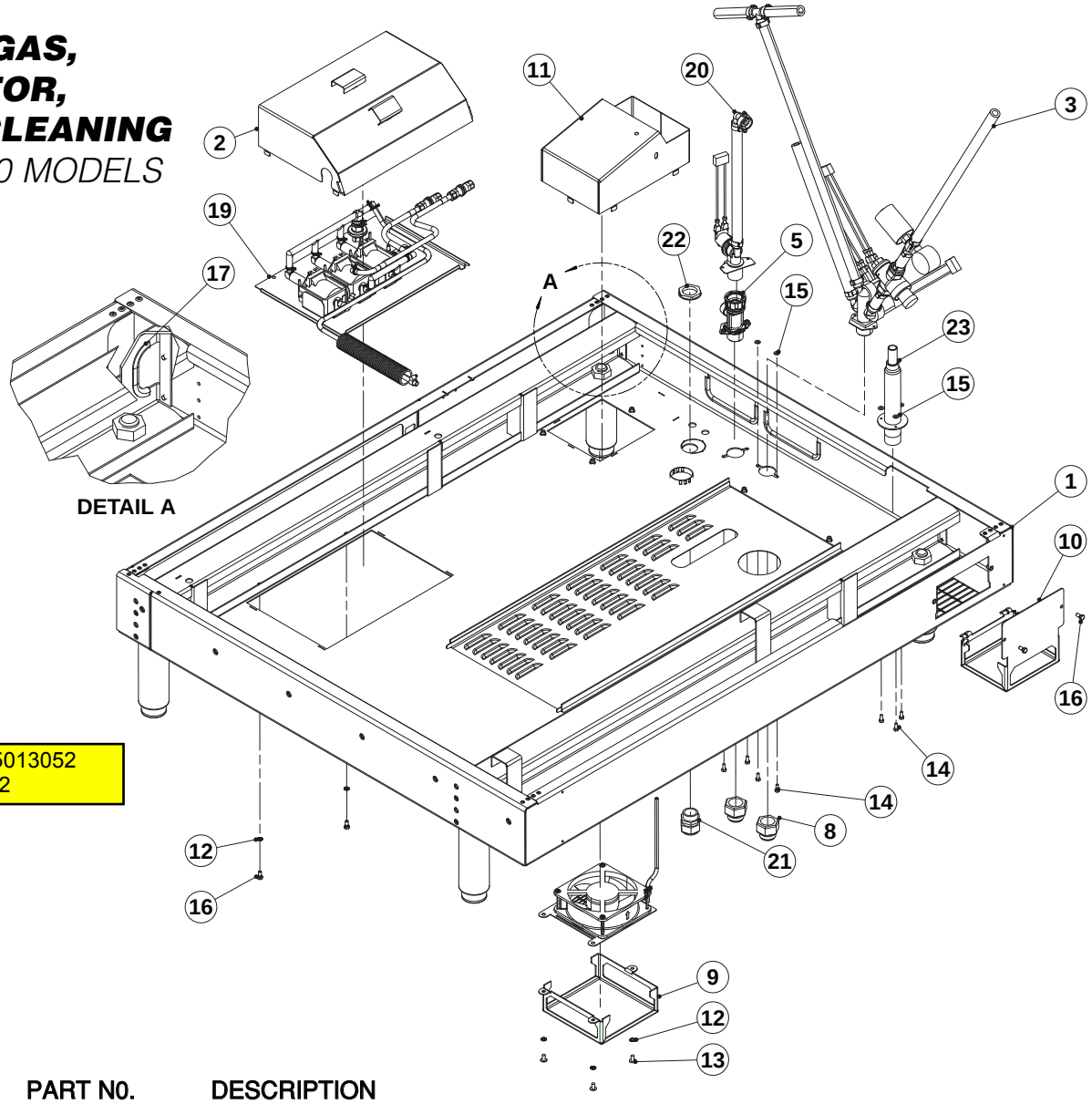
OGB 6.20 MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2114542	ASSEMBLY, OUTER BASE, GAS, STEAM GEN, 6.20/10.20
2	1	C2016147	CONDENSER HOSE ASSY, GAS
3	1	C2010068	DOUBLE GAS CONNECTION R 3/4"
5	1	C5011003	CONNECTION FLANGE
7	5	C8006058	SCHNORR LOCK WASHER
8	2	C8003035	HEXAGON BOLT M5X10
9	1	C5016001	FITTING, ELECTRICAL, LIQUID TIGHT
10	1	C5016002	LOCKNUT, M25
12	5	C8005021	WASHER, 4.3, DIN 125
13	7	C8013004	HEXAGON BOLT M4 X 10
14	1	111522	TRAY, DRIP, FAN, FRONT, 6.20/20.20/10.10
15	1	111524	TRAY, DRIP, FAN, REAR, 6.20/20.20
16	1	C2116092	BOX, AIR INTAKE
17	1	C2016126	ASSY, WATER VALVE, GAS, 6.20
18	1	C2114626	COVER, BOTTOM, PUMP HOUSING
19	3	C8003029	MLF, SCREW, M5x10
20	1	C70016603000	EDGE PROTECTOR, CUT 3.000"
21	2	111538 A	DAPTER, 3/4-14 BSPP FEMALE X 3/4 GHT MALE, GH
23	1	C5215897	CABLE, HARNESS, ILLUMINATION
29	1	C2216090	FAN, AIR INLET BOX ASSEMBLY
30	1	111752	PLUG, 1.500 DIA, HOLE, SNAP-IN
31	1	C700106607000	EDGE PROTECTOR, CUT 7.000"
32	1	C700106607000-1	EDGE PROTECTOR, CUT 7.000"

BASE, GAS, INJECTOR, WITH CLEANING

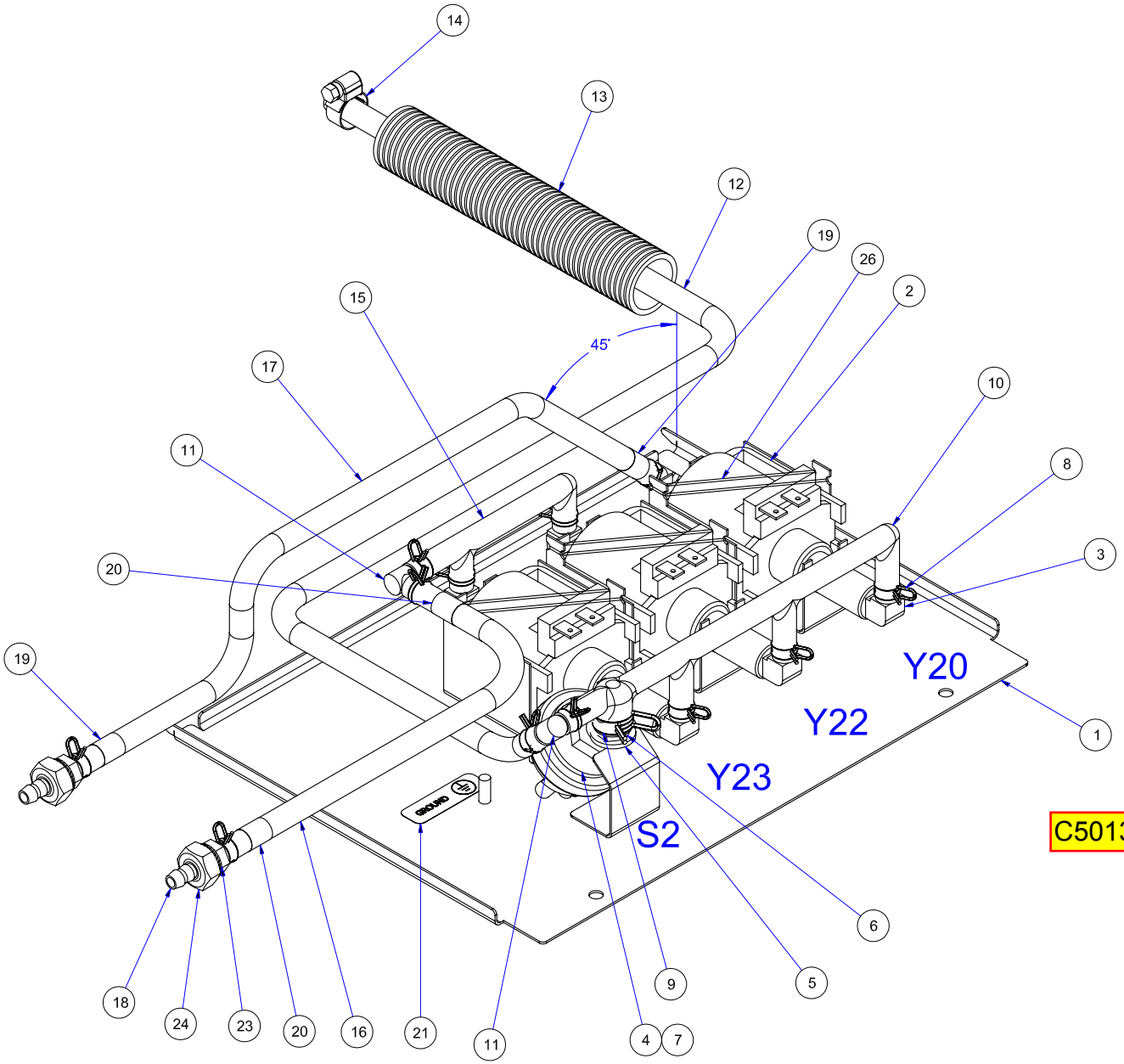
OGS 6.20 MODELS



Pressure Switch C5013052
Agent Pump 300352

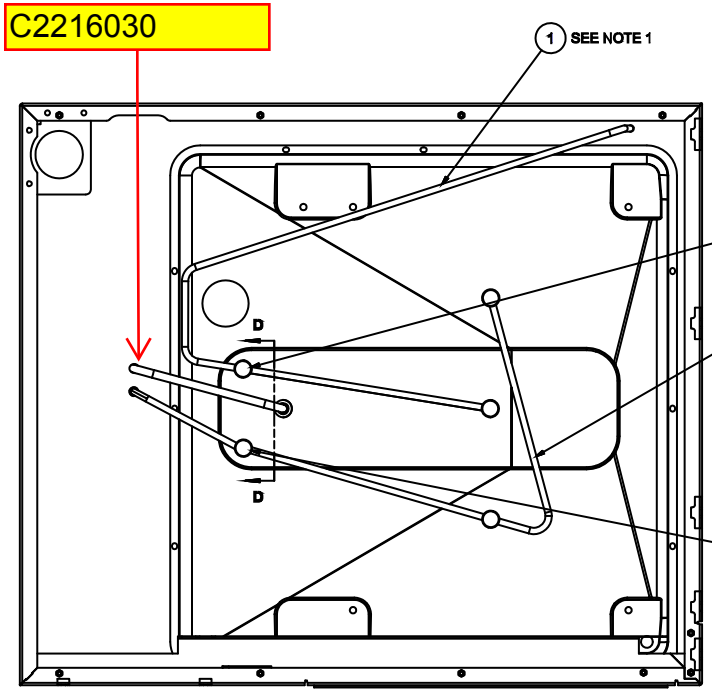
ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2114522	ASSEMBLY, OUTER PLATE EL 6.20/10.20
2	1	C2114699	ASSEMBLY, TOP COVER, PUMP HOUSING, AUTO CLEAN SYSTEM
3	1	C2016127	ASSY, WATER VALVE, GAS, 6.20
5	1	C5011003	CONNECTION FLANGE
8	2	111538	ADAPTER, 3/4-14 BSPP FEMALE X 3/4 GHT MALE, GH
9	1	111522	TRAY, DRIP, FAN, FRONT, 6.20/20.20/10.10
10	1	111524	TRAY, DRIP, FAN, REAR, 6.20/20.20
11	1	C2116092	BOX, AIR INTAKE
12	5	C8006058	SCHNORR LOCK WASHER
13	3	C8003029	MLF, SCREW, M5x10
14	7	C8013004	HEXAGON BOLT M4 X 10
15	5	C8005021	WASHER, 4.3, DIN 125
16	4	C8003035	HEXAGON BOLT M5X10
17	1	C70016603000	EDGE PROTECTOR, CUT 3.000"
18	1	C5215897	CABLE HARNESS, ILLUMINATION
19	1	C2616451	BOTTOM FLAP, PUMP HOUSING, GAS, 6.20, 110V
20	1	C2016147	CONDENSER HOSE ASSY, GAS
21	1	C5016001	FITTING, ELECTRICAL, LIQUID TIGHT
22	1	C5016002	LOCKNUT, M25 (NOT SHOWN)
23	1	C2010066	CONNECTION, GAS, SINGLE 3/4"
30	1	C2216090	FAN, AIR INLET BOX ASSEMBLY
31	1	111752	PLUG, 1.500 DIA, HOLE, SNAP-IN
32	1	C700106607000-1	EDGE PROTECTOR, CUT 7.000"
33	1	C700106607000	EDGE PROTECTOR, CUT 7.000"

11000115744



	ITEM	QTY	PART NO.	DESCRIPTION
	26	3	078180-1	O-RING
NOT SHOWN	25	1	14672	NUT, HEX, NYLOK, 10-32, ZP (FOR GROUND WIRE)
	24	2	111540	NUT, HEX, M10 X 1.5 (DIN 934), STAINLESS STEEL
	23	2	C8006063	WASHER, BELLEVILLE, M10, SERRATED BOTH SIDES, SST, 10.5mm ID X 16mm OD X 1mm THICK
NOT SHOWN	22	1	C5215887	HARNESS, WIRE, CLEANING, 6.20
	21	1	14897	LABEL, GROUND
	20	2	C6019109	LABEL, RED, CONVOCLEAN, CLEANER HOSE
	19	2	C6019111	LABEL, BLUE, CONVOCARE, CLEANER HOSE
	18	2	C6015247	FITTING, BULKHEAD, HOSE, 6mm ID
	17	1	C701230245500	HOSE, EPDM, 6mm ID X 10mm OD, 45.500" LONG
	16	1	C701230239500	HOSE, EPDM, 6mm ID X 10mm OD, 39.500" LONG
	15	1	C6014001	MANIFOLD, SUCTION, CLEANING PUMPS, EPDM
	14	1	106526	CLAMP, HOSE, WORM DRIVE, 3/8 TO 5/8x5/16W, SST
	13	1	C700204433500	HOSE, PROTECTION, 28mm OD X 23mm ID, CUT 33-1/2" LONG
	12	1	C701230258000	HOSE, EPDM, 6mm ID X 10mm OD, 58.000" LONG
	11	2	C6005414	FITTING, HOSE, 90 DEGREE ELBOW, 6mm BARB X 6mm BARB, PLASTIC (POM)
	10	1	C6014000	MANIFOLD, DISCHARGE, CLEANING PUMPS, EPDM
	9	1	C8019010	CLAMP, HOSE, SPRING, DOUBLE WIRE, 14.1 - 14.8 mm (0.555 - 0.583 in)
	8	12	C8009058	CLAMP, HOSE, SPRING, DOUBLE WIRE, 9.1 - 9.6 mm (0.358 - 0.378 in)
	7	A/R	111568	THREAD SEALANT, (LOCTITE 577)
	6	1	C6015229	BUSHING, THREADED, PRESSURE SWITCH P3
	5	1	C6005016	GASKET, FLAT, 18.8mm OD X 10.3mm ID X 2mm THICK
C5013052	4	1	C6009055	SWITCH, PRESSURE, AUTO CLEANING SYSTEM, P3
	3	6	105787	FITTING, HOSE BARB, 90°, 1/4 H X 1/8 NPT(M)
	2	3	300352	PUMP, OSCILLATING PISTON, 110-120VAC, 60Hz P3
	1	1	C2114823	WELDMENT, PUMP HOUSING, 110V P3

C2216030



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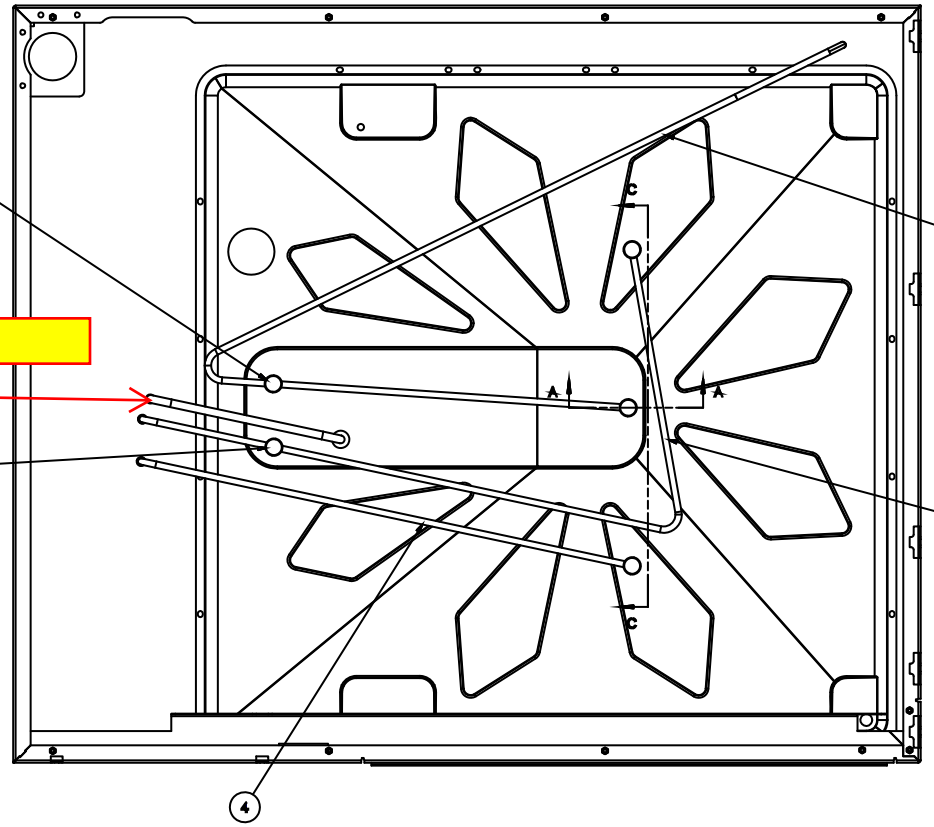

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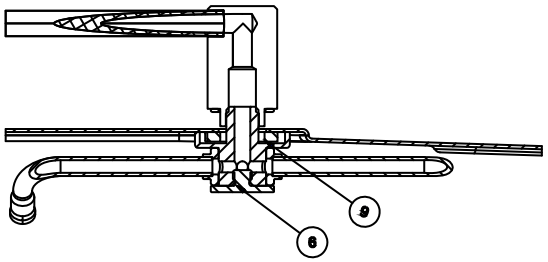
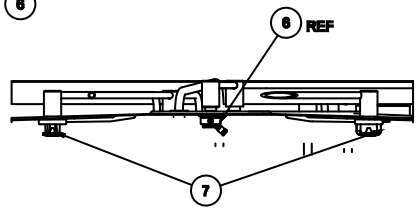
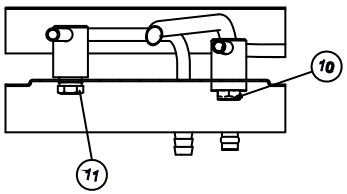


SECTION A-A



SECTION C-C



SECTION D-D

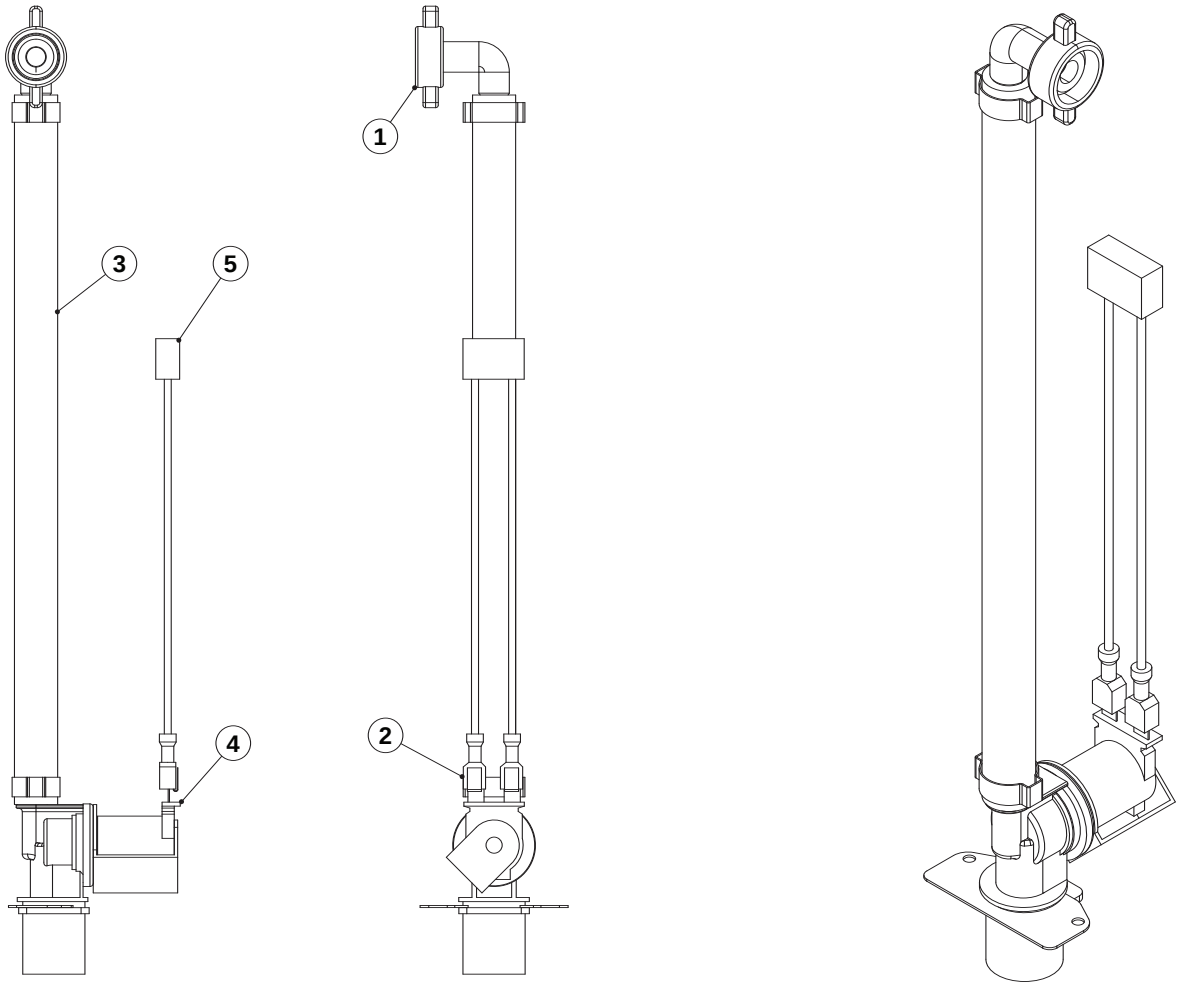
	ITEM	QTY	PART NO.	DESCRIPTION
	11	1	C6005413	NOZZLE 1.5
	10	1	C6005412	NOZZLE 0.7
	9	5	C6005409	NUT, NOZZLE MOUNTING PLATE
	8	5	C6005055	GASKET, COPPER, NICKEL PLATED 14.5 X 20
	7	2	C2911010	ASSEMBLY, SPRINKLER NOZZLE, P3
	6	1	C2911068	ASSEMBLY, ROTOR NOZZLE, P2, P3
	5	1	C2016164	ASSEMBLY, PIPE 1, WATER, X.20, P3
	4	1	C2016162	ASSEMBLY, PIPE 2, WATER, X.20, P3
	3	1	C2016121	ASSEMBLY, PIPE, CLEANER, TOP, 20.20, P3
SEE NOTE 2	3	1	C2016166	ASSEMBLY, PIPE, CLEANER, TOP, 6.20/10.20/12.20, P3
	2	1	C2016020	ASSEMBLY, PIPE, WATER, X.10, P3
SEE NOTE 1	1	1	C2016122	ASSEMBLY, PIPE, CLEANER, TOP, 20.10
	1	1	C2016018	ASSEMBLY, PIPE, CLEANER, TOP, 6.10/10.10

NOTES:
1) ITEM 1 (P/N C2016018) IS USED IN 6.10/10.10.
(P/N C2016122) IS USED IN 20.10.
2) ITEM 3 (P/N C2016019) IS USED IN 6.20/10.20/12.20.
(P/N C2016121) IS USED IN 20.20.

ASSEMBLY, WATER HOSE SYSTEM, CONDENSER

ALL MODELS

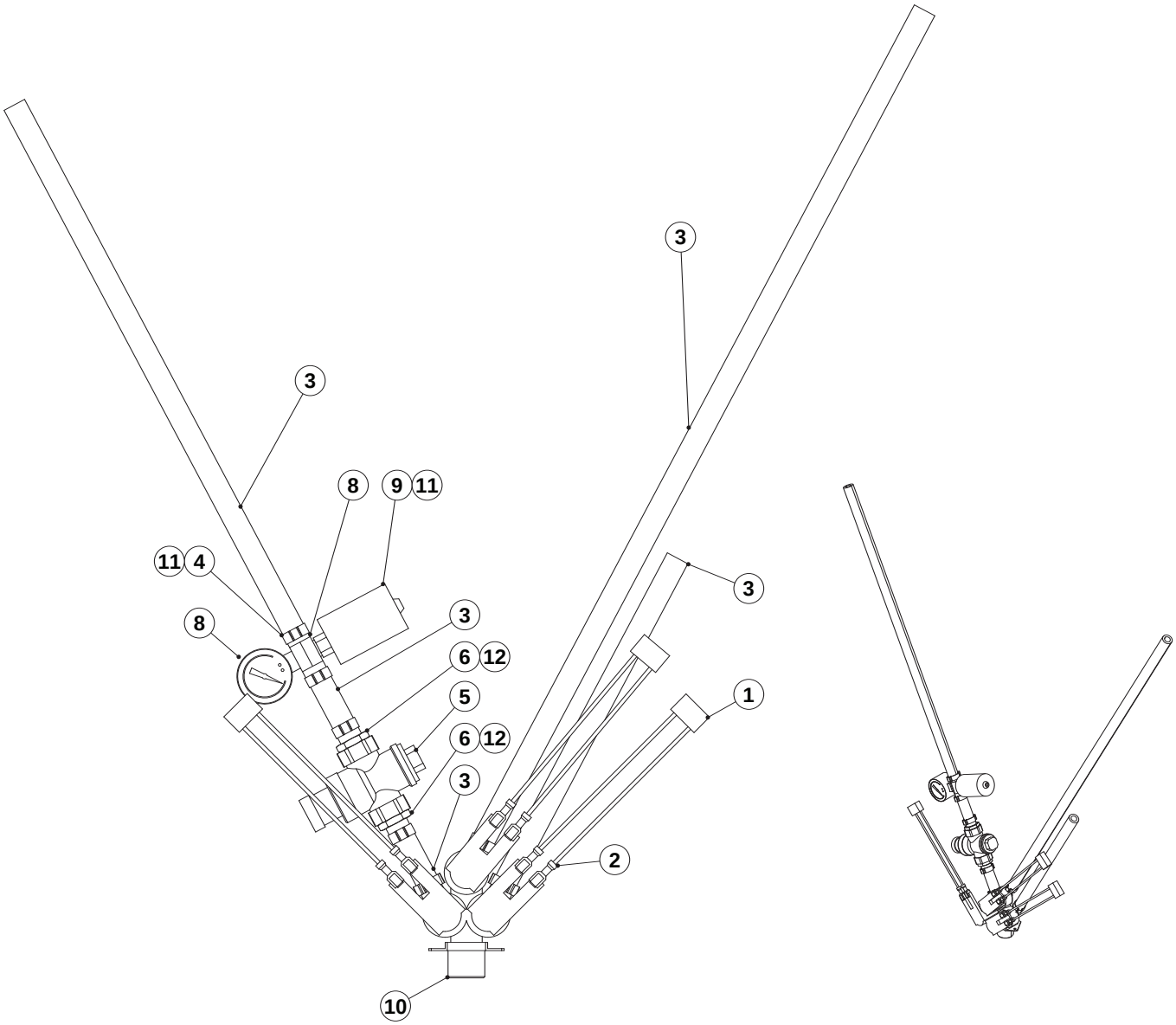
Connecter Flange C5011003



ITEM	QTY	PART N0.	DESCRIPTION
1	1	C6015215	ELBOW, HOSE CONNECTION, 3/8" WITH SEAL
2	2	111647	CLAMP, OETIKER, S/S, 19/32"
3	1	11149811000	HOSE, SILICONE, 3/8" ID X 11.000
4	1	300455	VALVE ASSEMBLY, 1 WAY, 120 VAC
5	1	300407	FILTER, ELECTRICAL
6	2	300509	TERMINAL, 18-22 AWG PIGGY BACK

ASSEMBLY, WATER VALVE

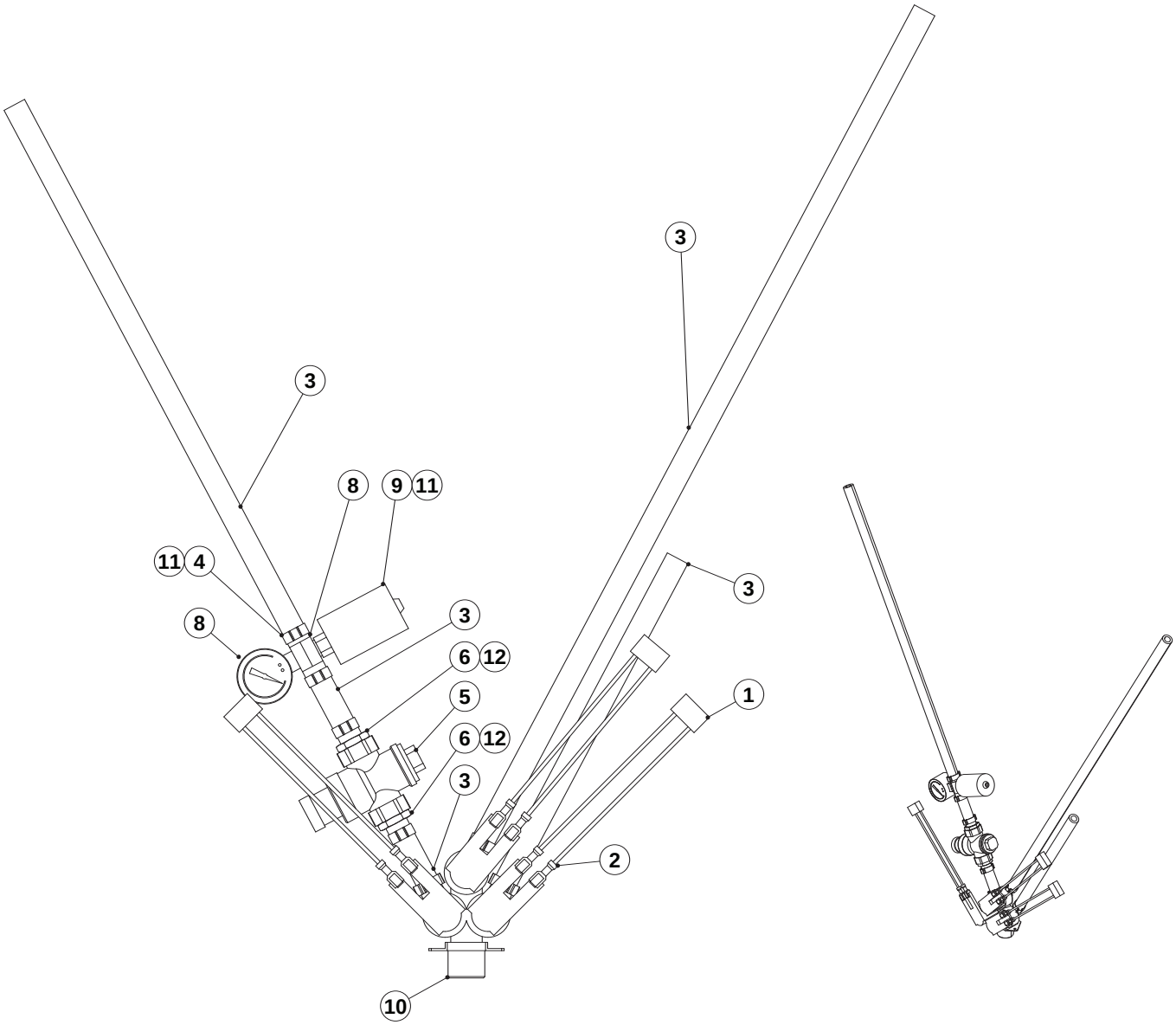
ALL GAS 10.10 MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	3	300407	FILTER, ELECTRICAL
2	6	300509	TERMINAL, 18-22 AWG PIGGY BACK
3	4	111498	HOSE, SILICONE, 3/8" ID (SPECIFY LENGTH)
4	7	111647	CLAMP, OETIKER, S/S, 19/32"
5	1	C5001085	PRESSURE REGULATING VALVE ODGAS
6	2	C6015401	BARB, 1/2 R X 3/8 HOSE
7	1	C6015232	CONNECTION NOZZLE 0.6MM 6.20/10.10/10.20
8	1	C6006140	GAUGE, 60 PSI BOTTOM MOUNT
9	1	C5009063	PUSH BUTTON SWITCH, INJ, (CHANGE-OVER CONTACT)
10	1	300363	TRIPLE SOLENOID VALVE 110-120V 50/60 Hz 180º
11	A/R	00946	TAPE, TEFLON, 1/2"
12	A/R	111561	SEALANT, LOCTITE, WHITE, DRI-SEAL, 513

ASSEMBLY, WATER VALVE

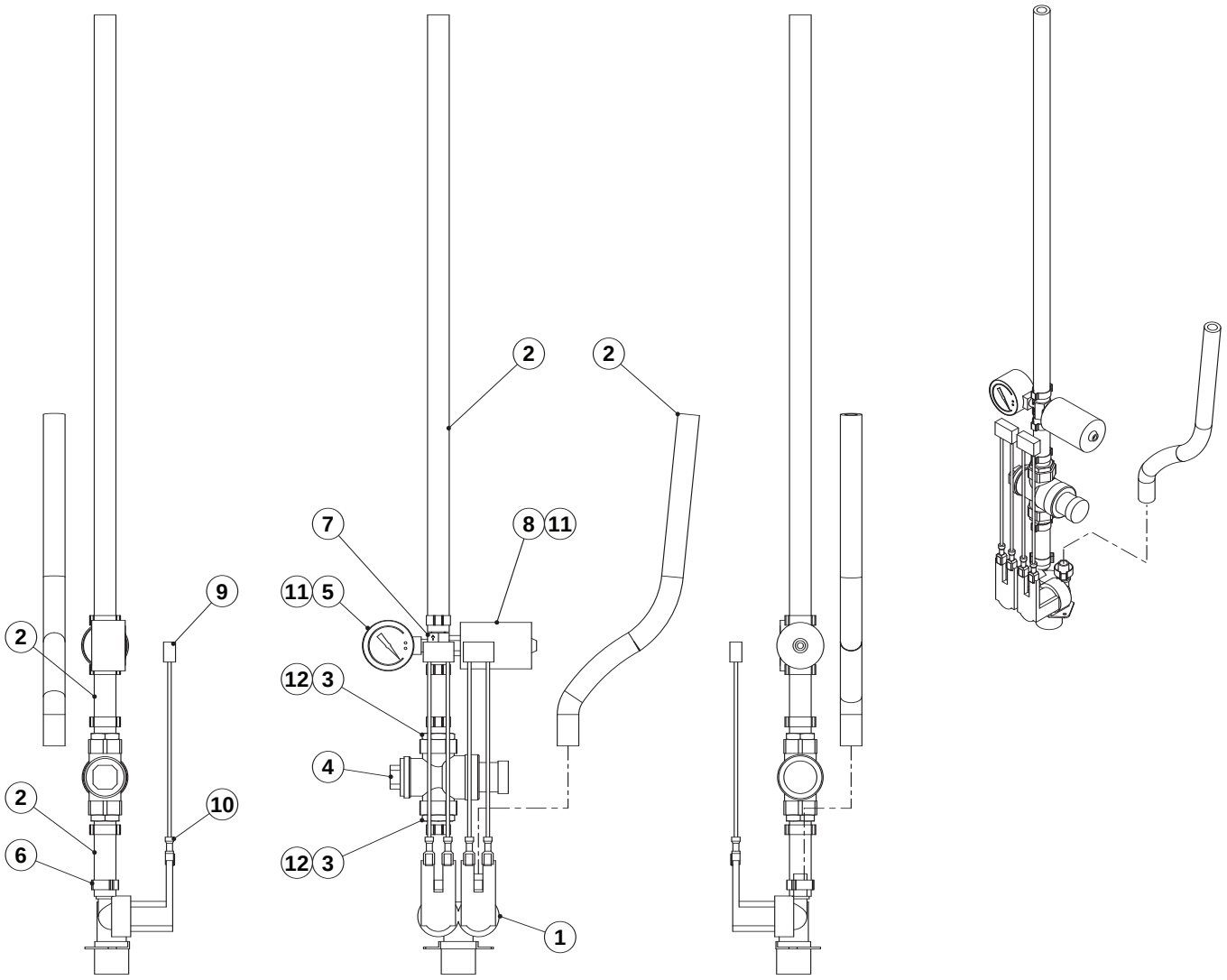
10.10 MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	3	300407	FILTER, ELECTRICAL
2	6	300509	TERMINAL, 18-22 AWG PIGGY BACK
3	4	111498	HOSE, SILICONE, 3/8" ID (SPECIFY LENGTH)
4	7	111647	CLAMP, OETIKER, S/S, 19/32"
5	1	C5001085	PRESSURE REGULATING VALVE ODGAS
6	2	C6015401	BARB, 1/2 R X 3/8 HOSE
7	1	C6015232	CONNECTION NOZZLE 0.6MM 6.20/10.10/10.20
8	1	C6006140	GAUGE, 60 PSI BOTTOM MOUNT
9	1	C5009063	PUSH BUTTON SWITCH, INJ, (CHANGE-OVER CONTACT)
10	1	300363	TRIPLE SOLENOID VALVE 110-120V 50/60 Hz 180º
11	A/R	00946	TAPE, TEFLON, 1/2"
12	A/R	111561	SEALANT, LOCTITE, WHITE, DRI-SEAL, 513

ASSEMBLY, WATER VALVE, INJECTOR, GAS

OGS 6.20 & 10.10 MODELS

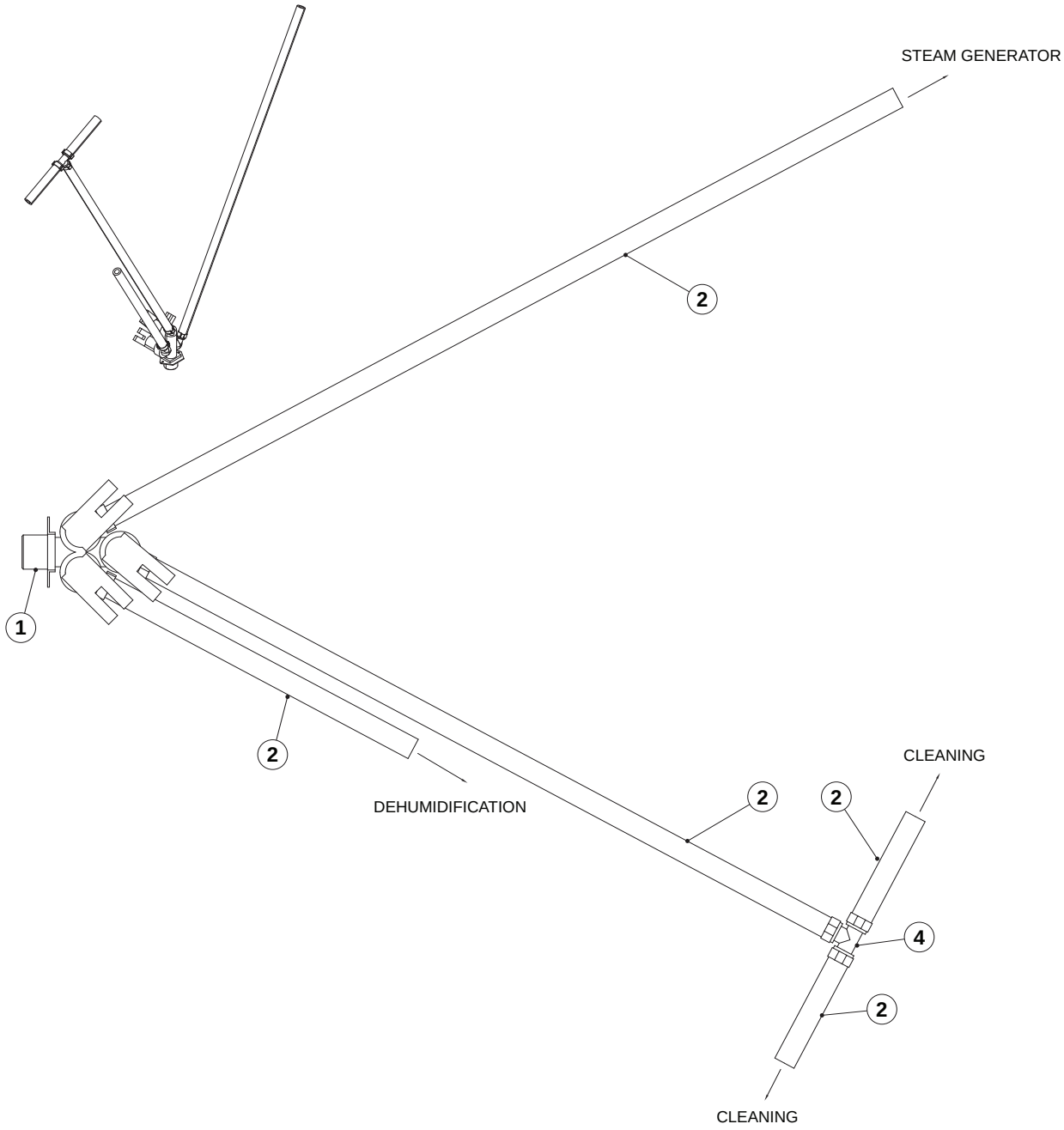


ITEM	QTY	PART N0.	DESCRIPTION
1	1	300456	VALVE ASSY. 2 WAY 120VAC
2	4	111498	HOSE, SILICONE, 3/8" ID (SPECIFY LENGTH)
3	2	C6015401	BARB, 1/2 R X 3/8 HOSE
4	1	C5001085	PRESSURE REGULATING VALVE OD GAS
5	1	C6006140	GAUGE, 60 PSI BOTTOM MOUNT
6	6	111647	CLAMP, OETIKER, S/S, 19/32"
7	1	C6015232	CONNECTION NOZZLE 0.6MM 6.20/10.10/10.20
8	1	C5009063	PUSH BUTTON SWITCH, INJ, (CHANGE-OVER CONTACT)
9	2	300407	FILTER, ELECTRICAL
10	4	300509	TERMINAL, 18-22 AWG PIGGY BACK
11	A/R	00946	TAPE, TEFLON, 1/2"
12	A/R	111651	SEALANT, LOCTITE, WHITE, DRI-SEAL 513

C2016128 A
0706

ASSEMBLY, WATER SUPPLY, GENERATOR W/CLEANING SYSTEM

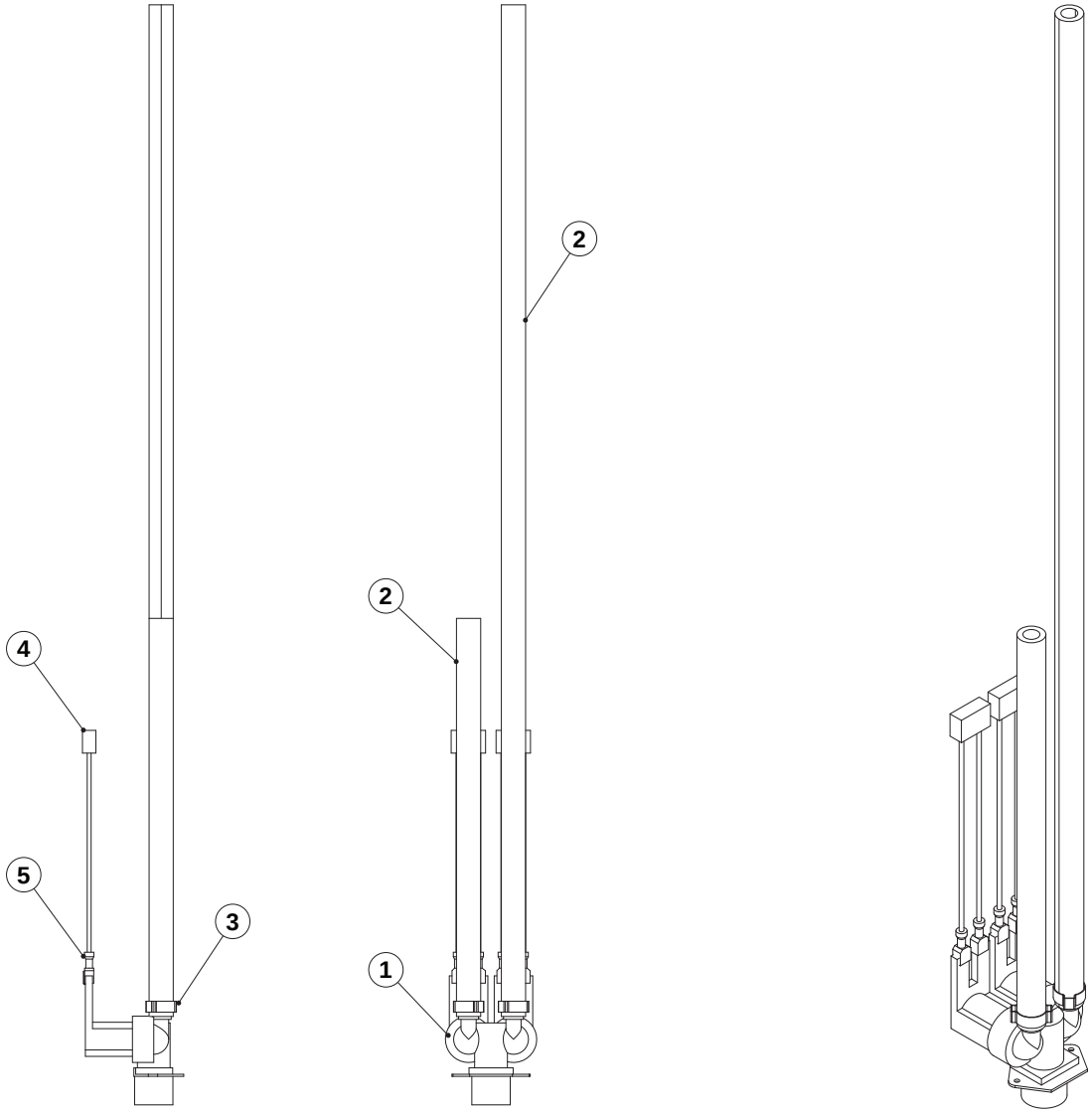
OEB & OGB 6.20 MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	1	300453	VALVE ASSEMBLY, 3WAY 240VAC
		300363	TRIPLE SOLENOID VALVE 110-120V 50/60 Hz 180º
2	5	111498	HOSE, SILICONE, 3/8" ID (SPECIFY LENGTH)
3	6	111647	CLAMP, OETIKER, S/S, 19/32"
4	1	111646	TEE, BRASS, 3/8" BRASS

ASSEMBLY, WATER VALVE

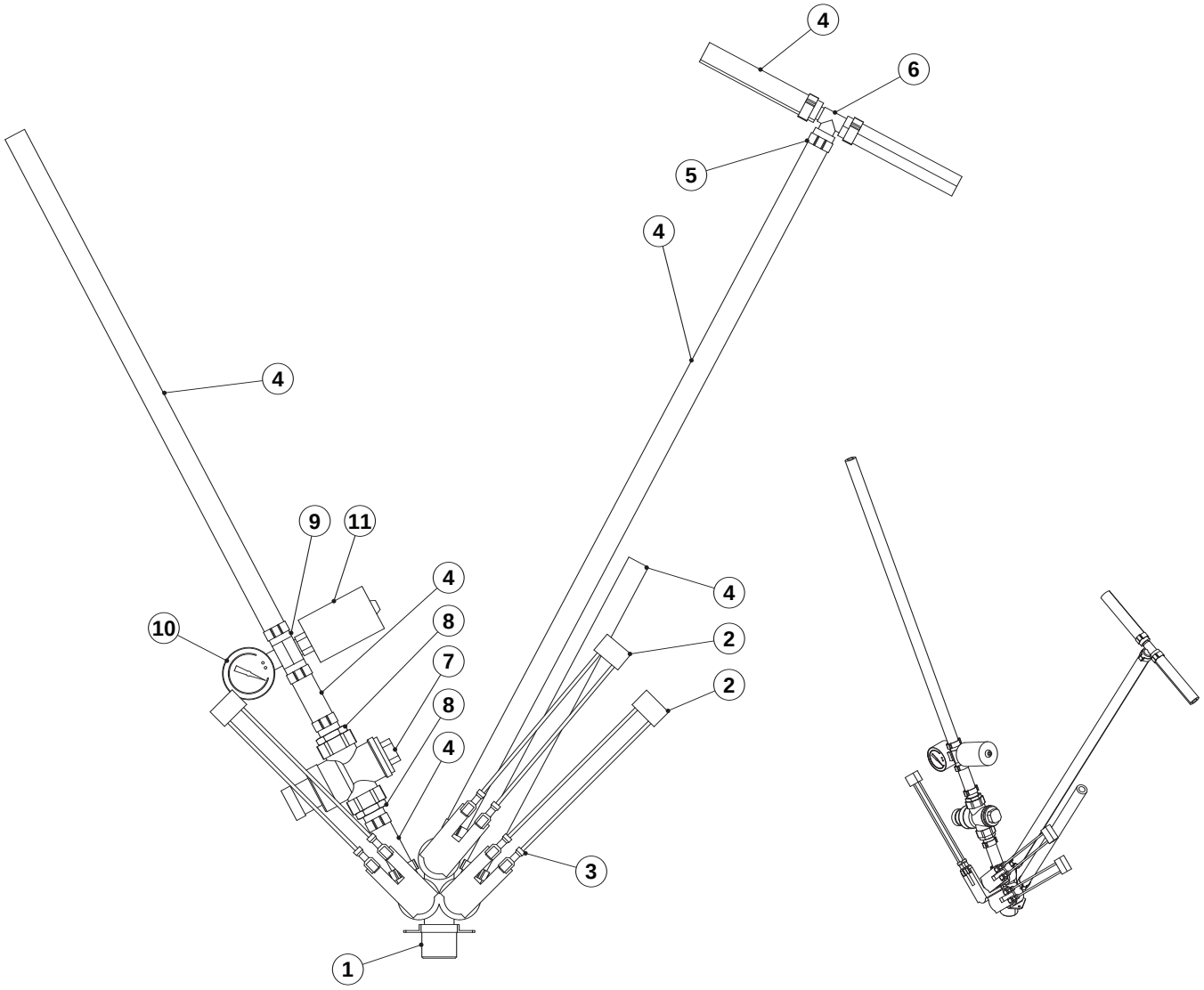
ALL GAS 6.20 MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	1	300456	VALVE ASSY. 2 WAY 120VAC
2	2	111498	HOSE, SILICONE, 3/8" ID (SPECIFY LENGTH)
3	2	111647	CLAMP, OETIKER, S/S, 19/32"
4	2	300407	FILTER, ELECTRICAL
5	4	300509	TERMINAL, 18-22 AWG PIGGY BACK

ASSEMBLY, WATER VALVE

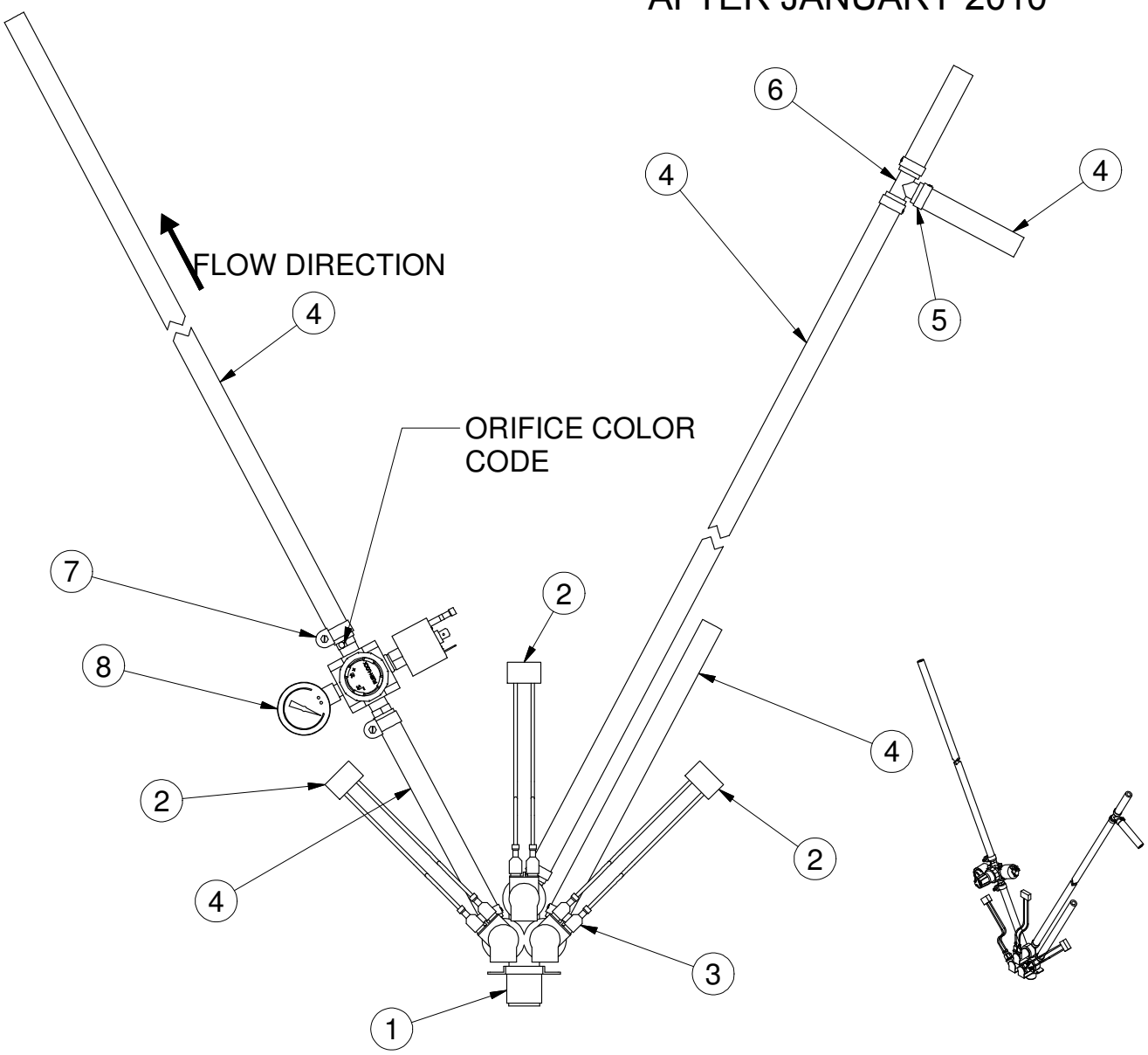
OGS 6.20 MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	1	300363	TRIPLE SOLENOID VALVE 110-120V 50/60 Hz 180º (OGS 6.20)
2	3	300407	FILTER, ELECTRICAL
3	6	300509	TERMINAL, 18-22 AWG PIGGY BACK
4	5	111498	HOSE, SILICONE, 3/8" ID (SPECIFY LENGTH)
5	10	111647	CLAMP, OETIKER, S/S, 19/32"
6	1	111646	TEE, BRASS, 3/8" BRASS
7	1	C5001085	PRESSURE REGULATING VALVE ODGAS
8	2	C6015401	BARB, 1/2 R X 3/8 HOSE
9	1	C6015232	CONNECTION NOZZLE 0.6MM 6.20/10.10/10.20
10	1	C6006140	GAUGE, 60 PSI BOTTOM MOUNT
11	1	C5009063	PUSH BUTTON SWITCH, INJ, (CHANGE-OVER CONTACT)

C2016127 A
0706

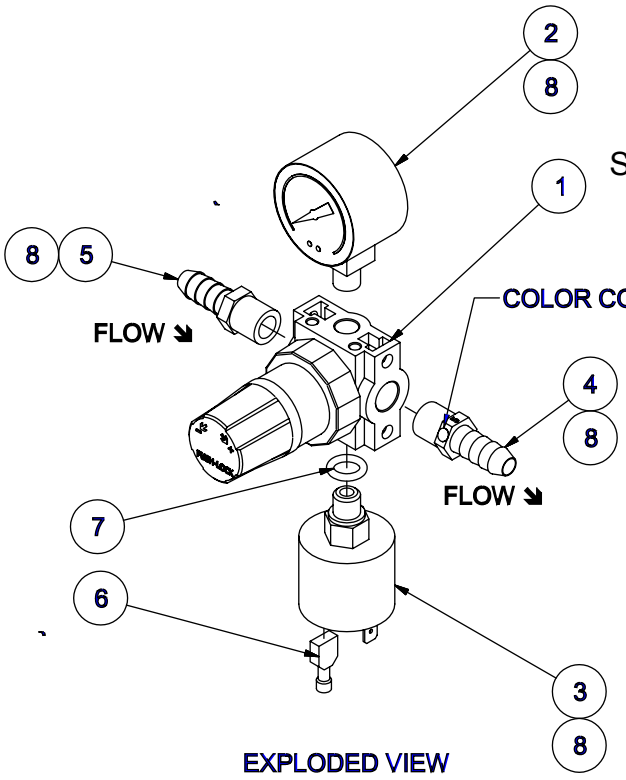
WATER VALVE ASSEMBLY
OES & OGS MODELS
AFTER JANUARY 2010



ITEM	QTY	PART N0.	DESCRIPTION
1	1	300453	VALVE, SOLENOID, 3 WAY, 240VAC
		300363	VALVE, SOLENOID, 3 WAY, 120VAC
2	3	300407	FILTER, ELECTRICAL, RC NETWORK, 125 VAC, 200 VDC
3	6	300509	TERMINAL, SLIPON, INSUL., 18-22 AWG, PIGGYBACK
4	7	111498	HOSE, SILICONE, 0.375" ID X 0.655" OD
5	6	C6016070	CLAMP, HOSE, 0.630" - 0.756", SST, OETIKER
6	1	111646	TEE, HOSE BARB, BRASS, 3/8"H X 3/8"H X 3/8"H
7	2	C6006086	HOSE CLAMP, 1/2" 12-20 MM, 15 MM ADJUSTED
8	1	SEE DRAWING	REGULATOR ASSEMBLY, W / ORIFICE, COMBI

REGULATOR ASSEMBLY

ASSEMBLY PART NO.	ORIFICE FTG. PN.	ORIFICE SIZE	COLOR CODE
FK1132281	1132301	0.5mm	RED 3.10
FK1132282	1132302	0.6mm	BLUE 6.20/10.10/10.20
FK1132283	1132303	0.7mm	YELLOW 12.20
FK1132284	1132304	1.0mm	GREEN 20.20

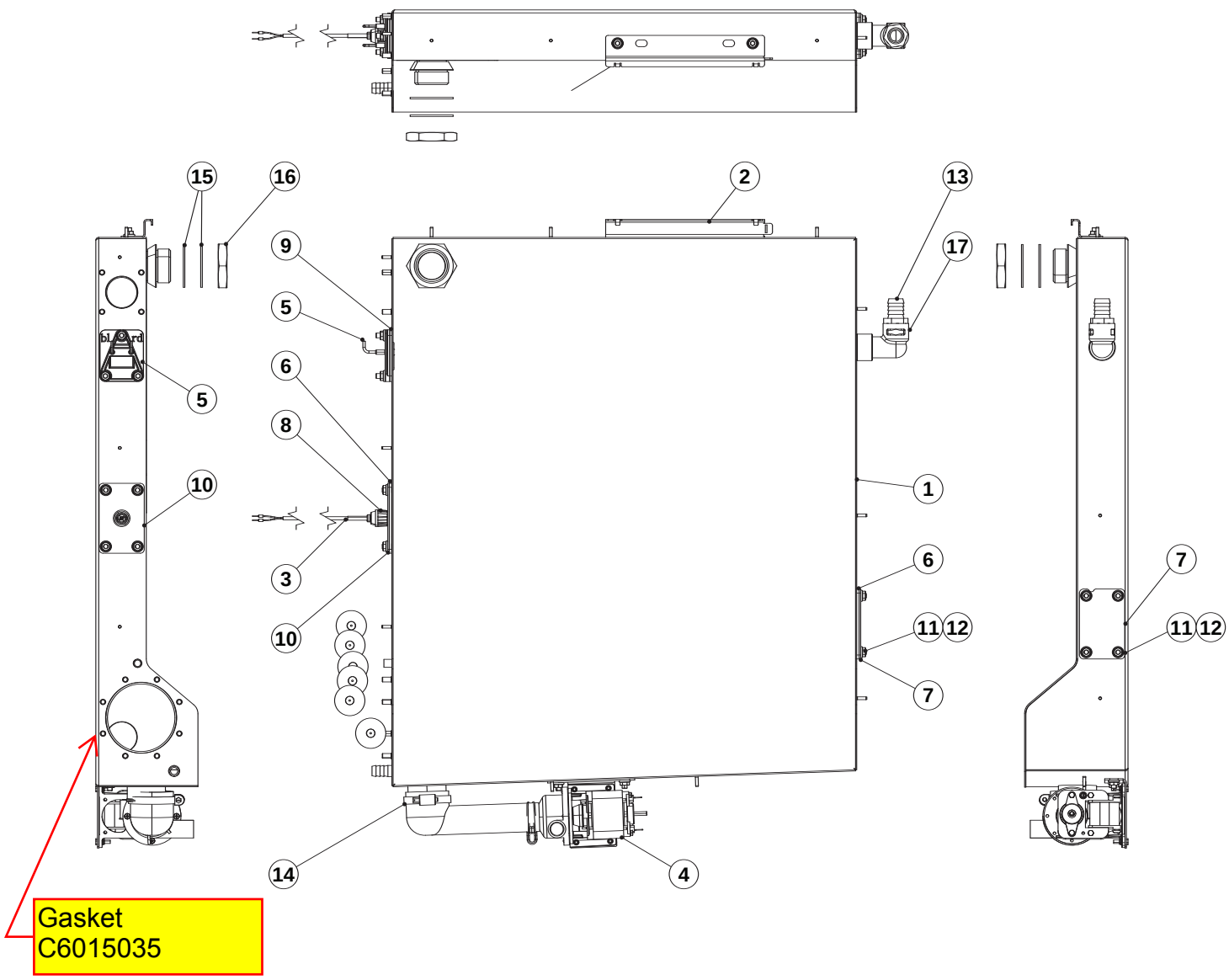


EXPLODED VIEW

ITEM	QTY	PART NO.	DESCRIPTION
8	A/R	111651	SEALANT, LOCTITE, WHITE, HIGH TEMP, DRI-SEAL 513
7	1	113236	O-RING, 3/8"ID X 9/16"OD X 3/32"THK, BUNA-N
6	1	20356	SLIP-ON FULL INSULATED, FEMALE, 0.032 X 0,250
5	1	105277	FTG, HOSE BARB, 3/8 H X 1/4 NPT, BR
4	1	SEE CHART	FTG, HOSE BARB,3/8H X 1/4NPT,BR; W/ORIFICE
3	1	C5009063	SWITCH, PRESSURE, INJECTOR SYSTEM
2	1	C6006140	GAUGE, PRESSURE, 0 -60 PSI (4 BAR) 1/8" BPP BOTTOM CONNECTION
1	1	113229	REGULATOR, 0-60PSIG, 1/4"NPT

ASSEMBLY, STEAM GENERATOR, GAS

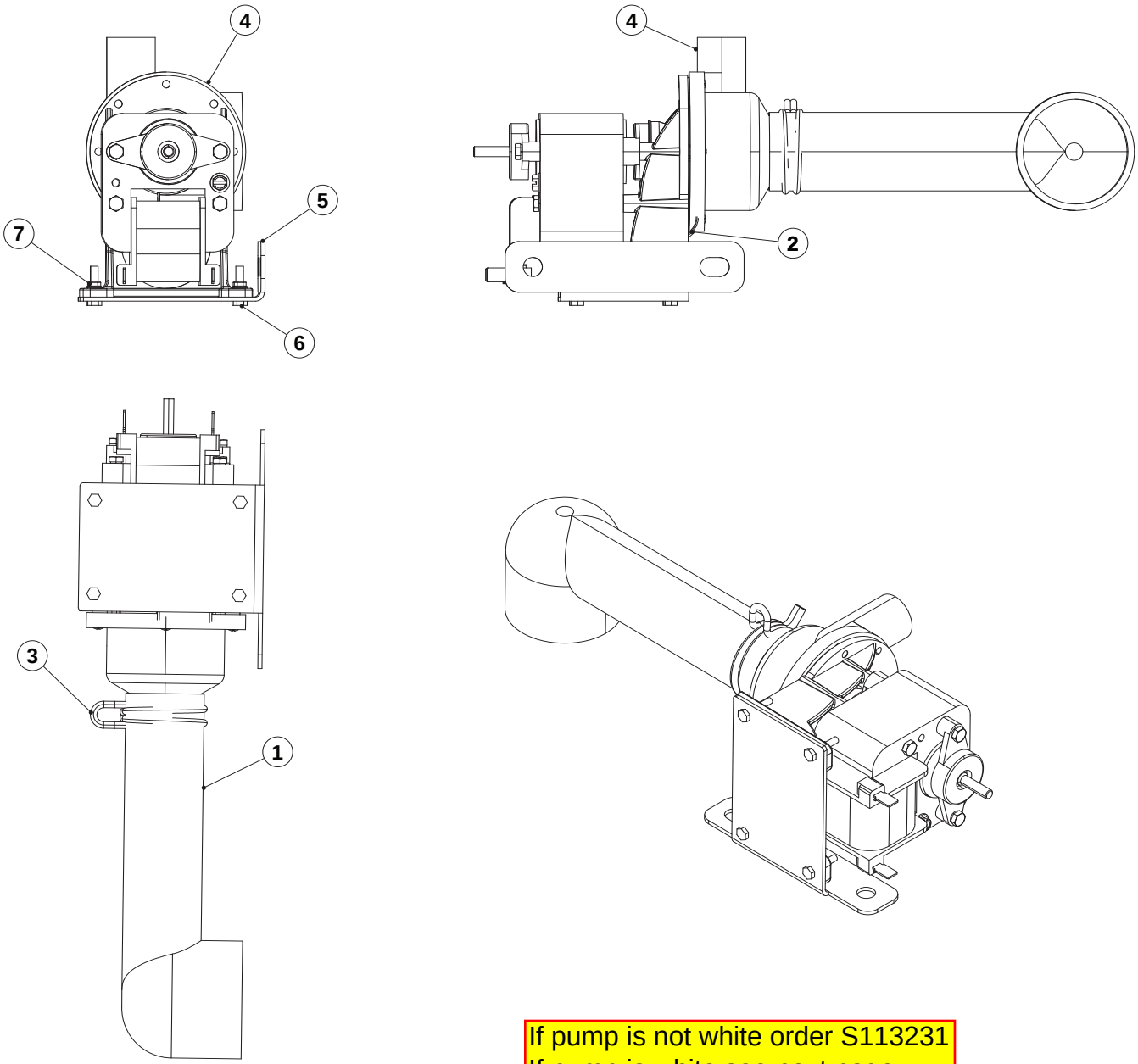
OGB 6.20 MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2314891	WELDMENT, GEN GAS 6.20 (NOT SHOWN)
2	1	C2314243	SUPPORT, STEAM GEN, TABLE TOP UNIT
3	1	C5016006	THERMOCOUPLE, SENSOR, OSC/OSP, 64.960" (1650MM)
4	1	C2314991	PUMP, 110V, GAS STEAM GENERATOR
5	1	C5019003	ASSEMBLY, DOUBLE LEVEL PROBE
6	2	C6015023	FLAT GASKET FOR IMMERSION HEATER
7	1	C2314968	INSPECTION FLANGE, STEAM GENERATOR
8	1	C6005260	SEAL, THERMOCOUPLE SENSOR, OSC/OSP
9	1	C6015040	FLAT GASKET FOR DOUBLE-LEVEL PROBE
10	1	C2314974	FLANGE, INSPECTION, STEAM GENERATOR
11	15	C8017011	NUT, FLANGE, HEX
12	A/R	C7014000	COPPER PASTE
13	1	06240	FTG, HOSE BARB, 3/4 X 3/4 MPT
14	1	C6006089	HOSE CLAMP, 40-60 MM
15	2	C6005025	FLAT GASKET, 1.673 x 2.126 x 0.079 in.
16	1	C6006092	HEXAGON NUT R 1 1/4"
17	1	05231	ELBOW, STREET 90 X 3/4 NPT, BRASS
18	11	101953	CLIP, INSULATION RETAINER, 1-1/2, .105 HOLE, GALV.

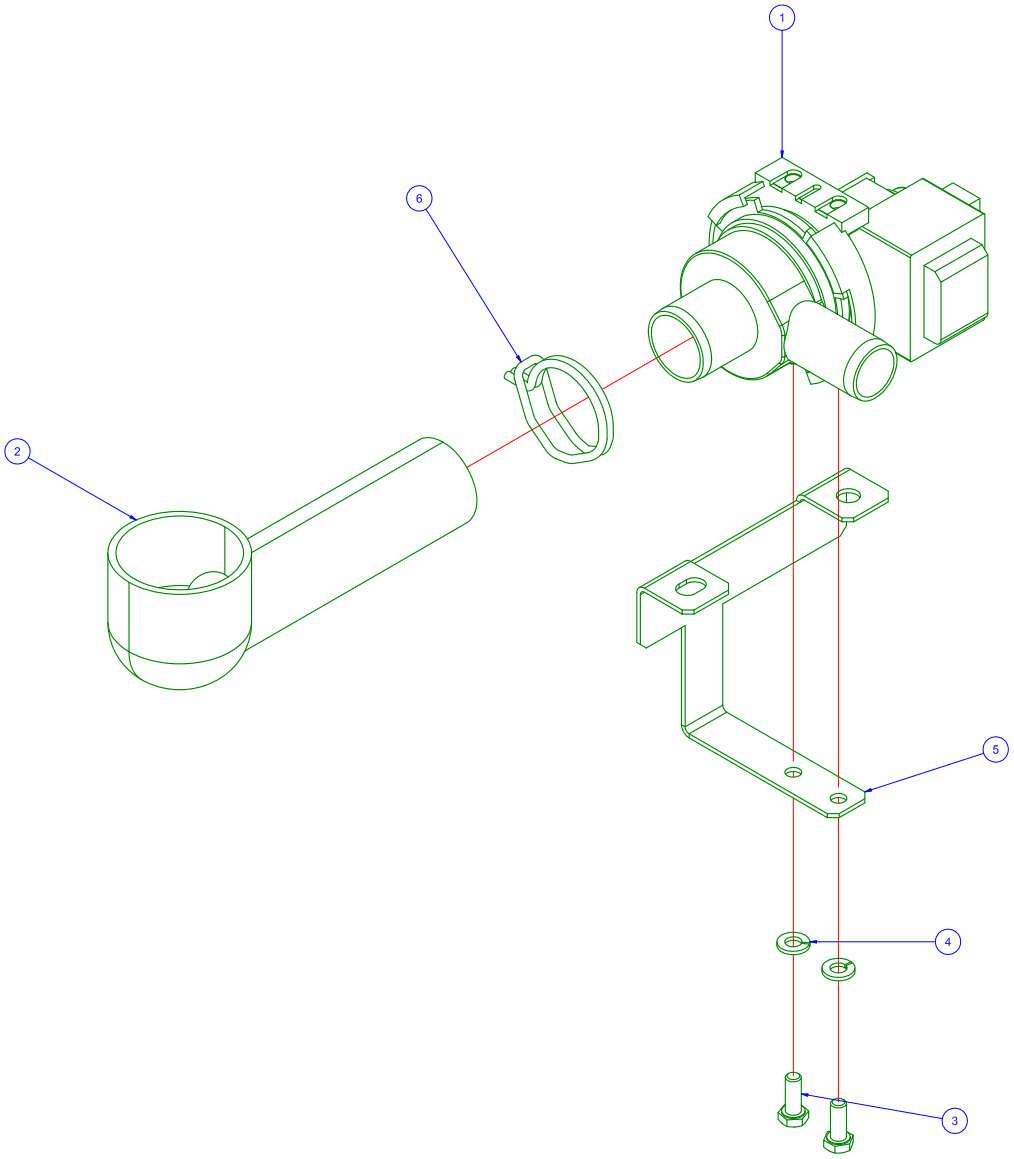
PUMP, STEAM GENERATOR, GAS, 110V

ALL GAS MODELS

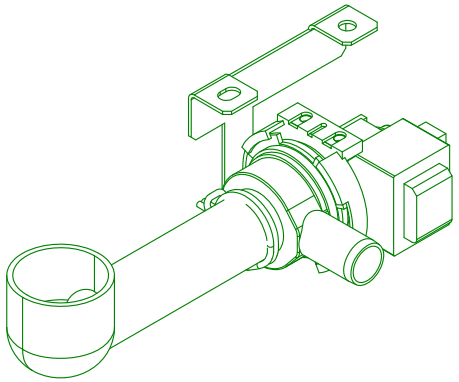


If pump is not white order S113231
If pump is white see next page.

ITEM	QTY	PART NO.	DESCRIPTION
1	1	C6015101	DRAIN ELBOW FOR STEAM GENERATOR
2	1	C6005299	SUPPORT BUSHING, STEAM GENERATOR - PUMP
3	1	C8009057	WIRE CLAMP D: 36, BLACK
4	1	300506	DRAIN PUMP WITH 110 V MOTOR
5	1	111630	BRACKET, PUMP, GAS GEN
6	4	111633	SCREW, HEX HD, M3 x 16, SST, FULLY THREADED
7	4	C8017008	NUT, LOCKING, SERRATED



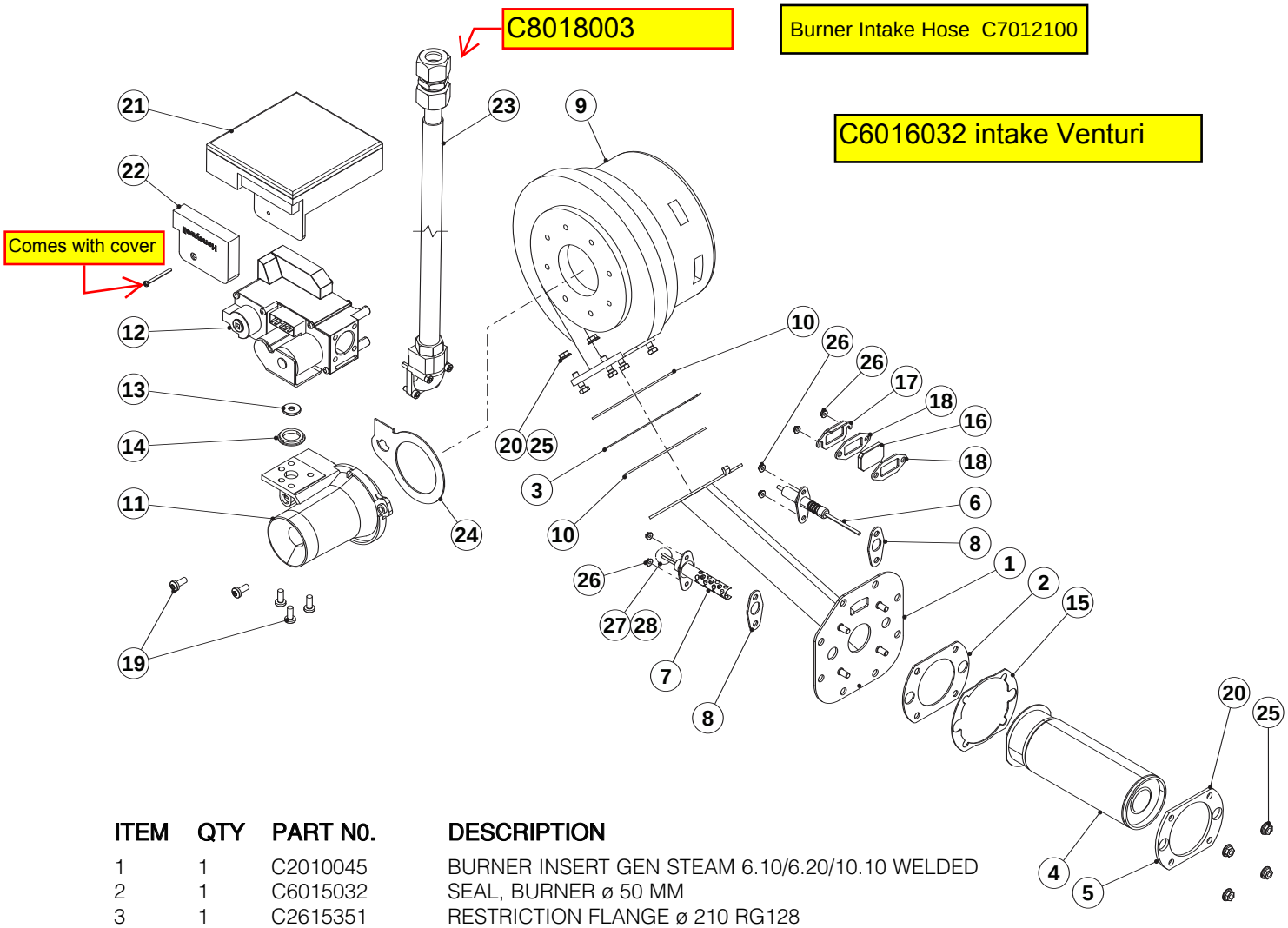
Complete assembly S113231



1	300753	Drain Pump 120 v
2	C6015101	Drain Elbow
3	C8003043	Hex Bolt M6x16
4	23105	Lock Washer
5	113269	Pump Bracket
6	107481	Hose Clamp

ASSEMBLY, BURNER INSERT, STEAM GENERATOR, NAT GAS

OGB 6.20 & 10.10 MODELS

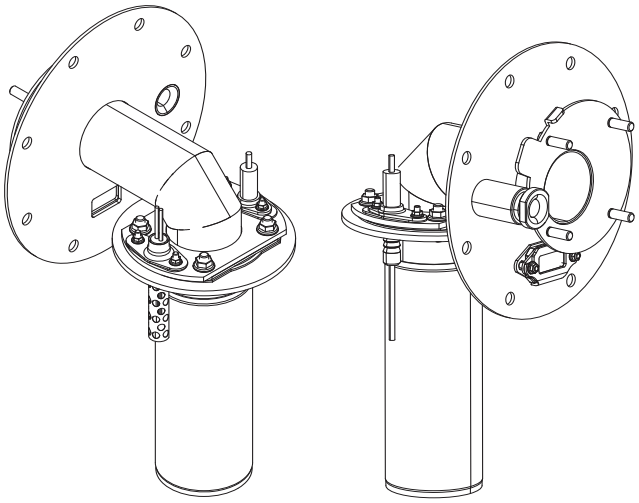


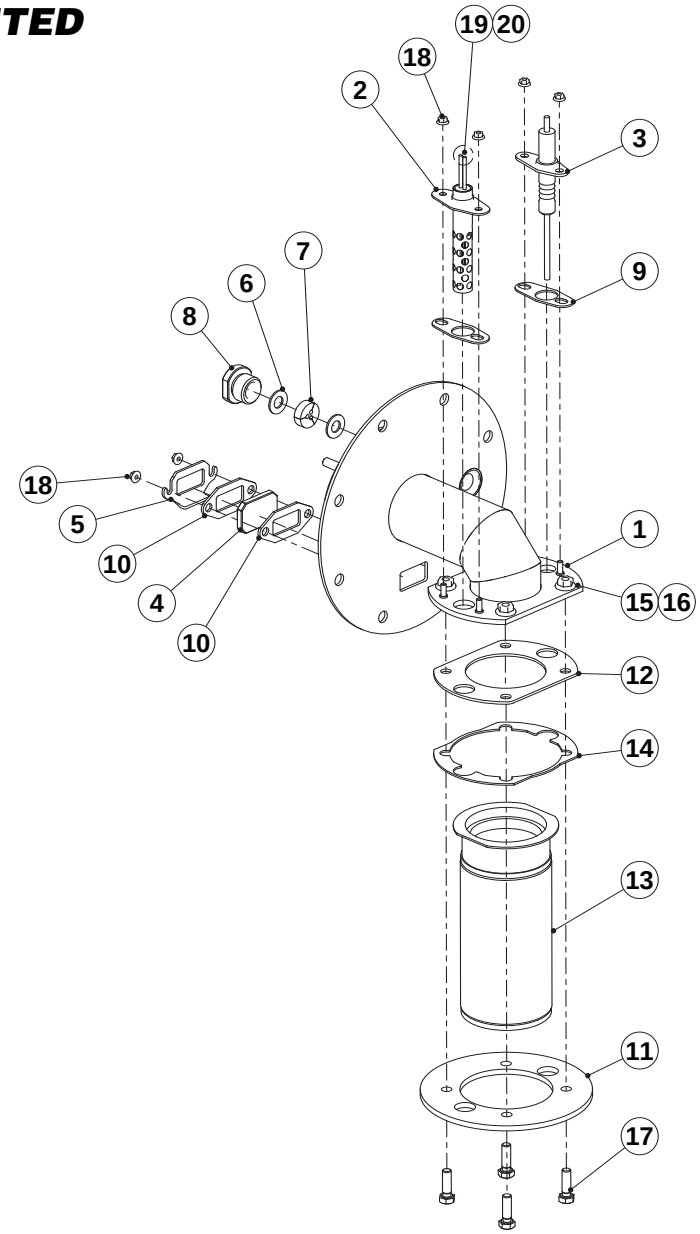
ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2010045	BURNER INSERT GEN STEAM 6.10/6.20/10.10 WELDED
2	1	C6015032	SEAL, BURNER ø 50 MM
3	1	C2615351	RESTRICTION FLANGE ø 210 RG128
4	1	C2010014	BURNER, ø 50 x150, 20 KW
5	1	C2614907	CLAMPING FLANGE, STEAM GENERATOR, BURNER, ø 50
6	1	C4018000	MONITORING ELECTRODE
7	1	C4018002	AUTO-IGNITION ELECTRODE
8	2	C6015037	SEAL, ELECTRODE
9	1	C5018006	BURNER BLOWER, RG128, 110V
10	2	C6015034	SEAL, FAN RG128/148
11	1	C6016000	VENTURI 40 KW
12	1	C6016009	GAS VALVE, HONEYWELL, 110V
13	1	C6017009	ORIFICE, ø 05.65 NAT GAS
14	1	C6016030	SEALING RING, GAS SCREEN
15	1	C2615367	FLANGE, BURNER
16	1	C5015004	INSPECTION GLASS, BURNER
17	1	C2614845	COVER, INSPECTION GLASS, BURNER
18	2	C6015039	SEAL, INSPECTION GLASS, BURNER
19	5	C8012001	SCREW, M5x12, FILLISTER HD, TORX
20	A/R	C7014000	COPPER PASTE
21	1	C6016023	AUTOMATIC FIRING DEVICE, 110V, AUTO-IGNITION
22	1	C6016025	COVER, AUTOMATIC FIRING DEVICE
23	1	C2616516	GAS HOSE, 580 LG, PREASSEMBLED
24	1	111595	GASKET, CORK, BURNER VENTURI, COMBI
25	8	C8017010	FLANGE NUT
26	6	C8017008	NUT, LOCKING, SERRATED
27	1	300484	TERM, PUSHON, .110, 22-16AWG SEMI INSUL.
28	1	20351	TERM, SLIPON FULL INSUL .032X.25 TAB 22-18AWG

C2314900 B
0706

BURNER INSERT, HL, PRE-MOUNTED

ALL GAS MODELS



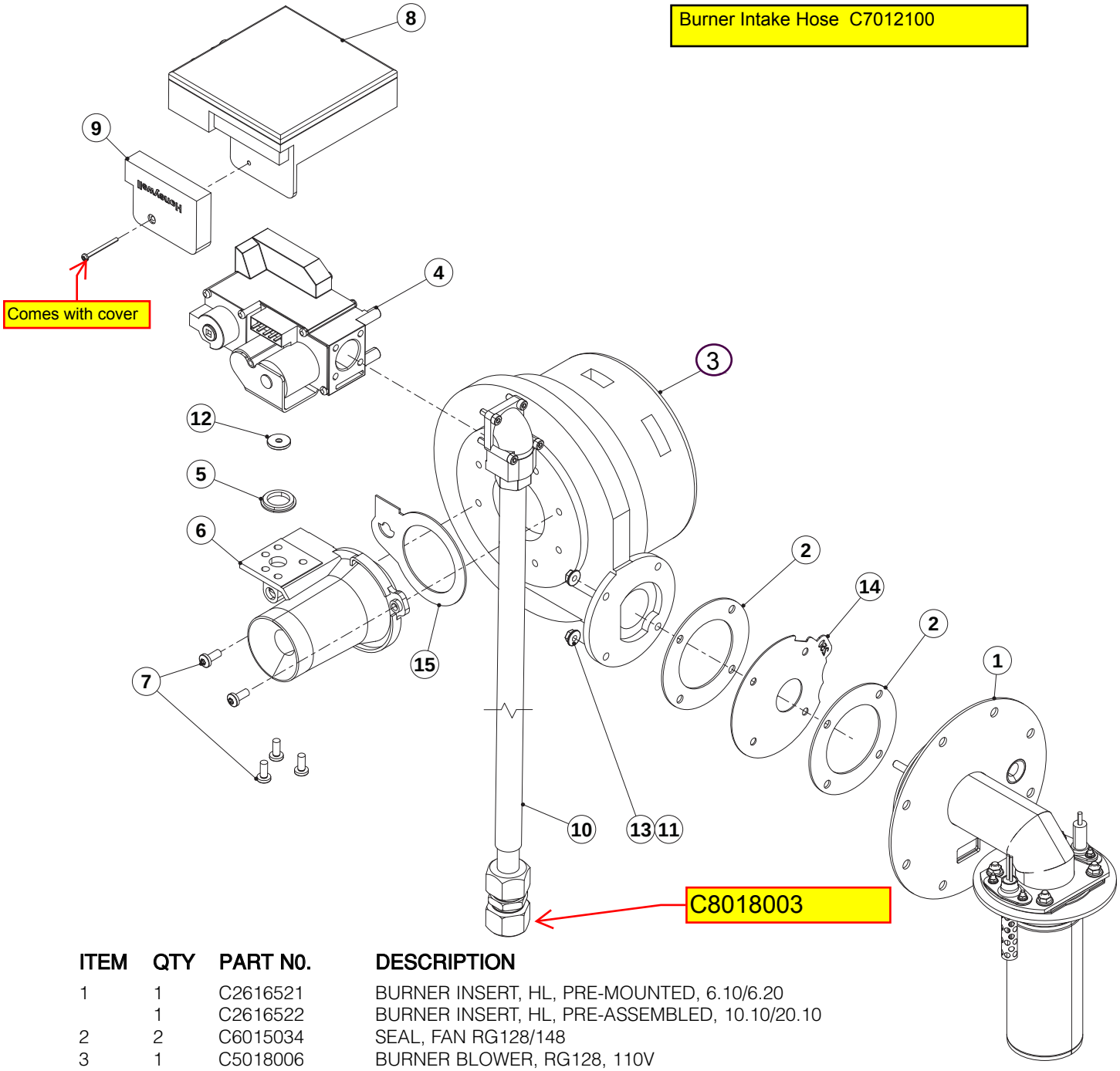


Insulation on burner flange
Use 112657 for 6.10/6.20
Use 112666 for 10.10
Use 112669 for 10.20/12.20/20.20

ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2010050	BURNER INSERT HL, 6.10/6.20, WELDMENT
	1	C2010052	BURNER INSERT, HL, 10.10/20.10, WELDMENT
2	1	C4018002	AUTO-IGNITION ELECTRODE
3	1	C4018000	MONITORING ELECTRODE
4	1	C5015004	INSPECTION GLASS, BURNER
5	1	C2614845	COVER, INSPECTION GLASS, BURNER
6	2	C6015240	WASHER, CABLE BUSHING, BURNER INSERT
7	1	C6015041	SEAL, CABLE BUSHING BURNER INSERT
8	1	C6015238	SCREW CONNECTION, CABLE BUSHING, BURNER INSERT
9	2	C2614849	LINING PLATE, ELECTRODE, GAS
11	1	C2614842	CLAMPING FLANGE, BURNER, HL, ø 50
10	2	C6015039	SEAL, INSPECTION GLASS, BURNER
12	1	C6015032	SEAL, BURNER ø 50 MM
13	1	C2010014	BURNER, ø 50 x150, 20 KW
14	1	C2615367	FLANGE, BURNER
15	A/R	C7014000	COPPER PASTE
16	4	C8017010	FLANGE NUT
17	4	C8003095	HEXAGON BOLT, M5x16, HUD 20.20
18	6	C8017008	NUT, LOCKING, SERRATED
19	1	300484	TERM, PUSHON, .110, 22-16AWG SEMI INSUL. (NOT SHOWN)
20	1	20351	TERM, SLIPON FULL INSUL .032X.25 TAB 22-18AWG (NOT SHOWN)

ASSEMBLY, BURNER INSERT, AIR, LP & NAT GAS

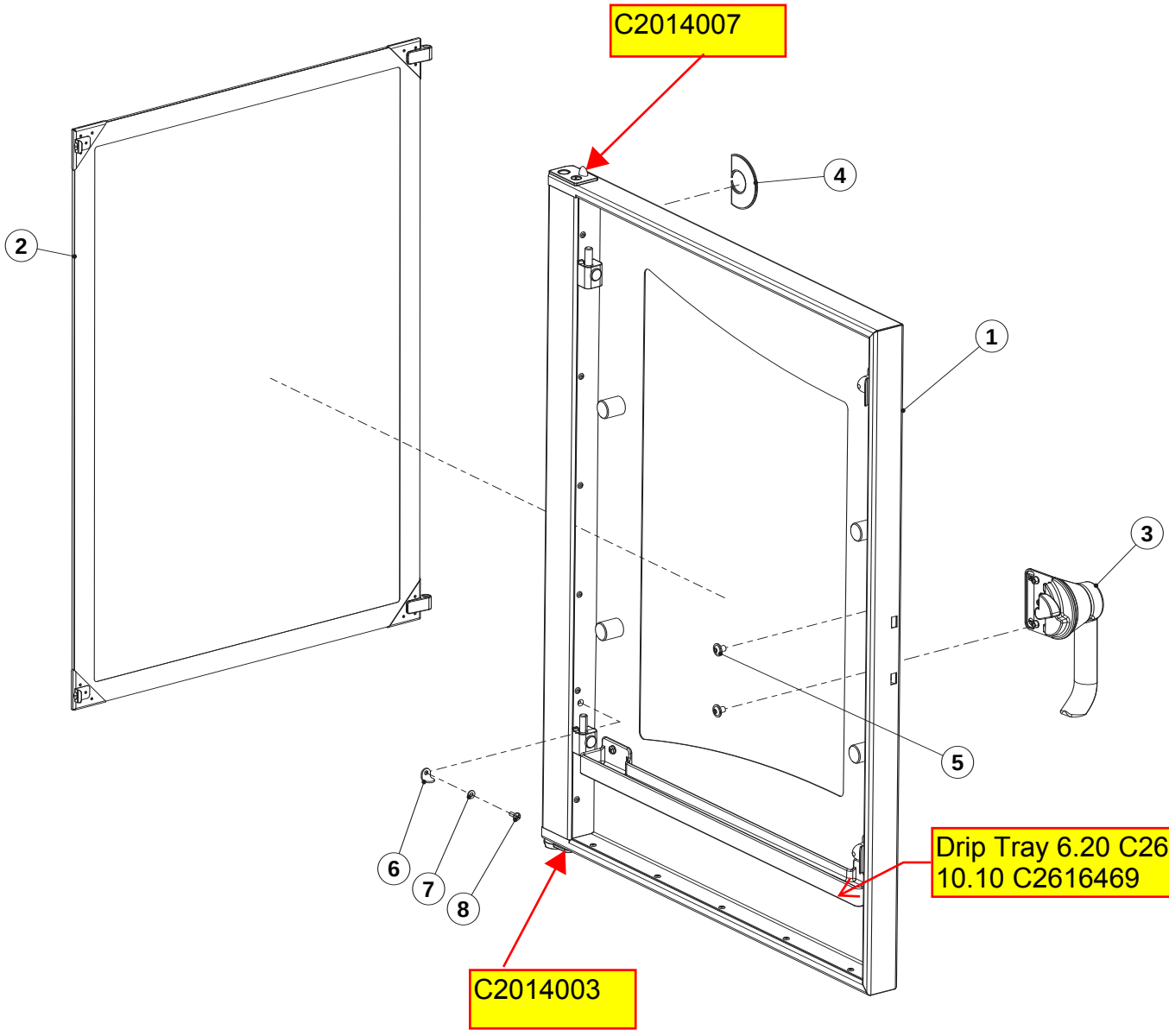
ALL GAS MODELS



ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2616521	BURNER INSERT, HL, PRE-MOUNTED, 6.10/6.20
	1	C2616522	BURNER INSERT, HL, PRE-ASSEMBLED, 10.10/20.10
2	2	C6015034	SEAL, FAN RG128/148
3	1	C5018006	BURNER BLOWER, RG128, 110V
4	1	C6016009	GAS VALVE, HONEYWELL, 110V
5	1	C6016030	SEALING RING, GAS SCREEN
6	1	C6016000	VENTURI 40 KW
7	5	C8012001	SCREW, M5x12, FILLISTER HD, TORX
8	1	C6016023	AUTOMATIC FIRING DEVICE, 110V, AUTO-IGNITION
9	1	C6016025	COVER, AUTOMATIC FIRING DEVICE
10	1	C2616516	GAS HOSE, 580mm LG, PREASSEMBLED, 6.20
	1	C2616517	GAS HOSE, 780mm LG, PREASSEMBLED, 10.10/20.10
11	A/R	C7014000	COPPER PASTE
12	1	112555	ORIFICE ø 400, LP GAS
	1	C6017009	ORIFICE, ø 0565 NAT GAS
13	4	C8017010	FLANGE NUT
14	1	C2615355	FLANGE, RESTRICTION ø 250
15	1	111595	GASKET, CORK, BURNER VENTURI, COMBI

DOOR 6.20 COMPLETE

6.20 & 10.10 MODELS



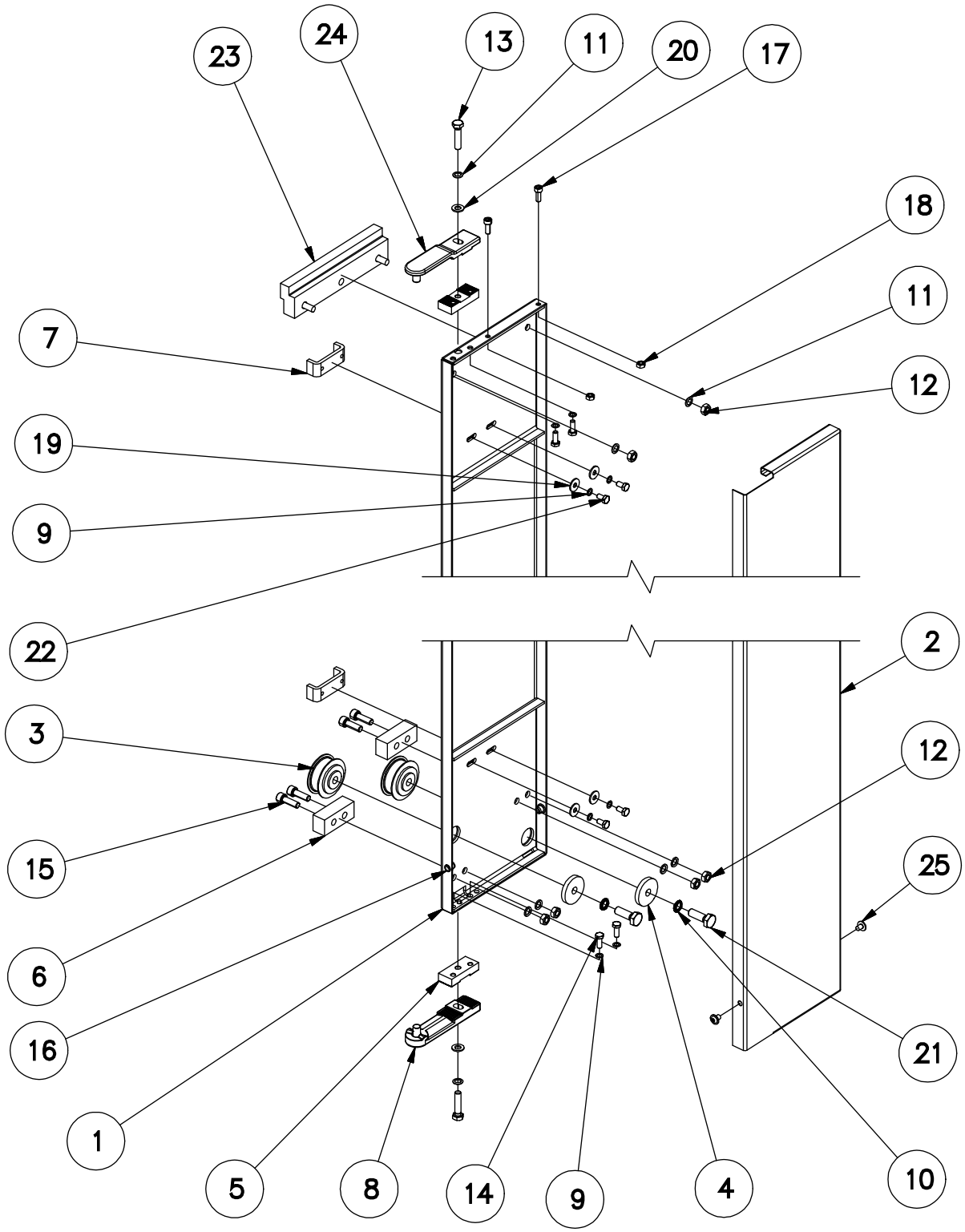
Spring clip C6015248

ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2514358	ASSEMBLY, OUTER DOOR, 6.20
	1	C2514359	ASSEMBLY, OUTER DOOR, 10.10
2	1	C2514389	ASSEMBLY, INNER DOOR, 6.20
	1	C2514390	ASSEMBLY, INNER DOOR, 10.10
3	1	C6012000	DOOR HANDLE, LOCKING
4	1	C6009016	PLASTIC LETTER "C" RED
5	2	C8015000	MLF SCREW M6X8
6	1	C2514430	UNHINGING SAFEGUARD, DOOR
7	1	C8001024	SCREW, FILISTER HD, M4x10 DIN 7985
8	1	C8005021	WASHER, 4.3, DIN 125
9	A/R	C7004012	LOCTITE 243 (NOT SHOWN)
10	A/R	C7003087	GREASE FRONT DOORS OD

Use C2518466 after 07H serial number.

SLIDING PLATE ASSEMBLY

C2614830 Complete for 6.20
C2614820 Complete for 10.10



C26148301SERV
0101

SLIDING PLATE ASSEMBLY

ITEM	QTY	PART N0.	DESCRIPTION
1	1	113069	SLIDING PLATE WELDMENT, 6.10
		113070	SLIDING PLATE WELDMENT, 10.10/10.20
		113071	SLIDING PLATE WELDMENT, 6.20
		113072	SLIDING PLATE WELDMENT, 12.20
		113073	SLIDING PLATE WELDMENT, 20.10/20.20
2	1	C2114815	COVER PANEL, 6.10
		C2114816	COVER PANEL, 6.20
		C2114817	COVER PANEL, 10.10/10.20
		C2114818	COVER PANEL, 12.20
		C2114819	COVER PANEL, 20.10/20.20
3	2	C6012017	ROLLER, ASSEMBLY, DOOR GUIDE
4	2	C6012005	DISC Ø39 x 6 RST P3
5	2	C2014008	LOCKING BLOCK, CARRIAGE PLATE, P3
6	2	C6015226	LOCKING BLOCK RST
7	2	C6012006	DOOR STOP, RST P3
8	1	C2013012	HINGE, DOOR, BOTTOM, CAST
9	8	C8006057	SCHNORR LOCK WASHER S6 A2 P3
10	2	C8006063	WASHER, BELLEVILLE, M10, SERRATED BOTH SIDES, SST
11	8	C8006060	SCHNORR LOCK WASHER, S8, A2, P3
12	6	C8004057	NUT, HEX, M8 A4
13	2	C8003058	HEXAGON BOLT, M8 X 35, A2 P2/P3
14	4	C8003043	HEXAGON BOLT M6x16 A2 P2/P3
15	4	C8013002	FILLISTER HEAD SCREW DIN 912 - M8X25 A2
16	2	C8008095	BLIND RIVET NUT M6 ROUND A2 P3
17	2	C8001073	HEXAGON SOCKET SCREW M6x16 A2 P2/P3
18	2	C8004040	HEXAGON NUT M6 A4 P2/P3
19	4	C8005041	WASHER 6.4 A2 DIN 9021 P2 P3
20	2	C8005050	WASHER, 8.4 A2 DIN 125 P3
21	2	C8003066	BOLT,HEX HD,M10x30,A2
22	4	C8013011	HEXAGON BOLT M6x12 A2 P2/P3
23	1	2619154	SUPPORT STRIP VST P3
24	1	C2013013	HINGE, DOOR, TOP, CAST
25	2	C8015000	MLF SCREW M6X8 A2 P3

113075	ASSY,SLIDING PLATE,VST,	RECT RAIL,10.10/10.20 P3
113076	ASSY,SLIDING PLATE,VST,	RECT STYLE RAIL,6.20 P3
113077	ASSY,SLIDING PLATE,VST,	RECT STYLE RAIL,12.20 P3
113078	ASSY,SLIDING PLATE,VST,	RECT RAIL,20.10/20.20 P3

ERV
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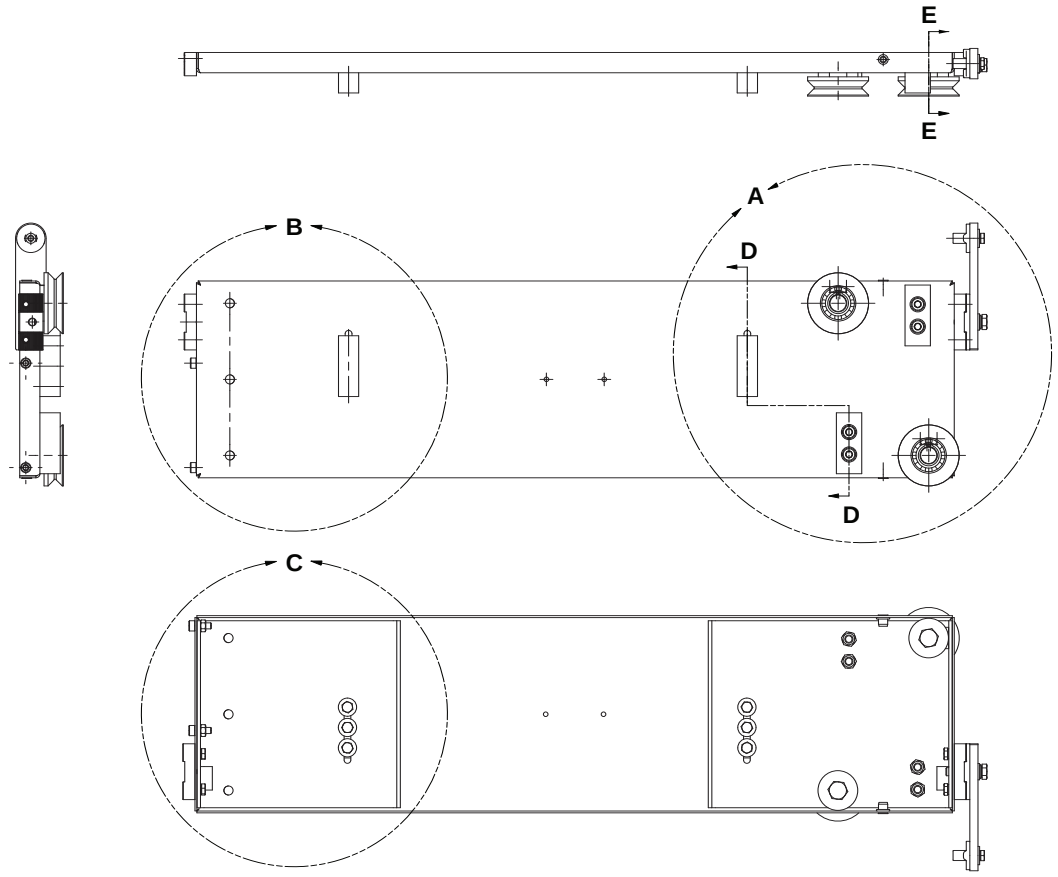
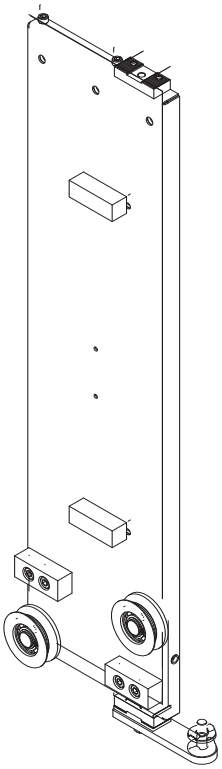
SLIDING PLATE, COMPLETE

ALL 6.20 & 10.10 MODELS

Upper Hinge C2013006



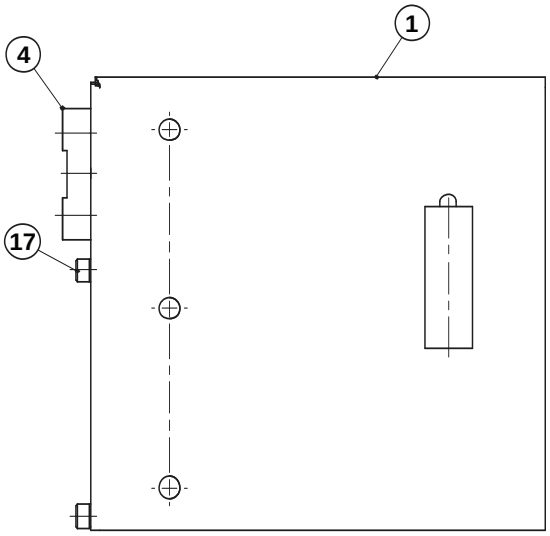


INSTALLED ORIENTATION

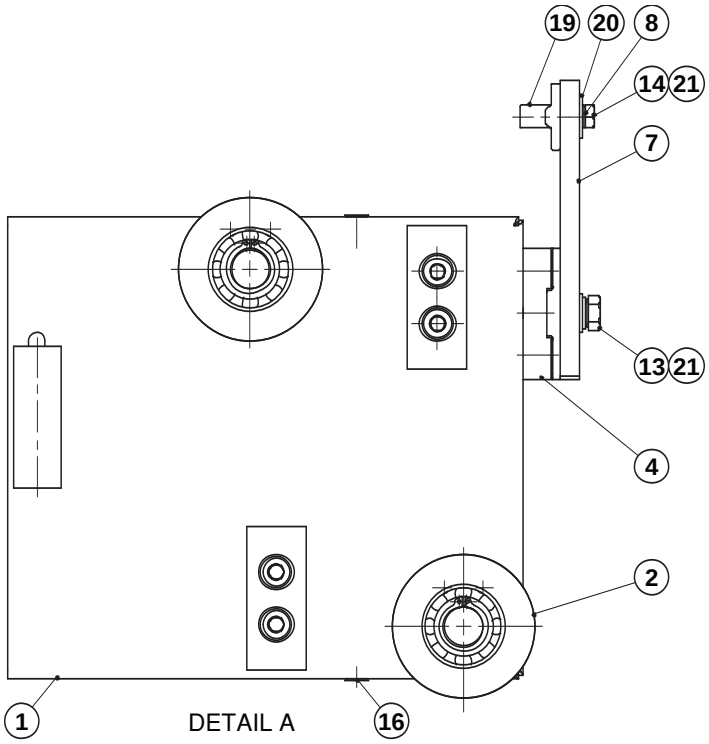
ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2614806	CARRIAGE PLATE, WELDED, 6.20
		C2614807	CARRIAGE PLATE, WELDED, 10.10 & 10.20
		C2614809	CARRIAGE PLATE, WELDED, 20.10 & 20.20
2	2	C6012002	ASSEMBLED,GUIDE ROLLER RST CPL
3	2	C6012005	DISC ø 39 x 6 RST
4	2	C2014008	LOCKING BLOCK, CARRIAGE PLATE
5	2	C6015226	LOCKING BLOCK RST
6	2	C6012006	DOOR STOP, RST
7	1	C2013004	HINGE, LOWER, WELDMENT, DOOR
8	11	C8006057	SCHNORR LOCK WASHER
9	2	C8006063	SCHNORR-LOCK WASHER
10	5	C8006060	SCHNORR LOCK WASHER
11	4	C8004057	NUT, HEX
12	1	C8005050	WASHER, 8.4 A2 DIN 125
13	1	C8003058	HEXAGON BOLT, M8 X 35
14	11	C8003043	HEXAGON BOLT M6x16
15	4	C8013002	FILLISTER HEAD SCREW DIN 912 - M8X25
16	2	C8008095	BLIND RIVET NUT M6 ROUND
17	2	C8001073	HEXAGON SOCKET SCREW M6x16
18	2	C8004040	HEXAGON NUT
19	1	C2014004	LOCKING PLATE, CARRIAGE, LOWER PART
20	7	C8005041	WASHER 6.4 A2 DIN 9021
21	A/R	C7004014	LOCTITE 638
22	2	C8003066	BOLT, HEX HD, M10x30, 6.20, 10.10 & 10.20
		C8013000	BOLT, HEX HD, M10x25, 20.10 & 20.20

SLIDING PLATE, COMPLETE

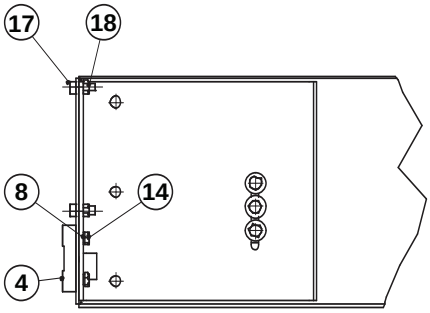
ALL 6.20 & 10.10 MODELS



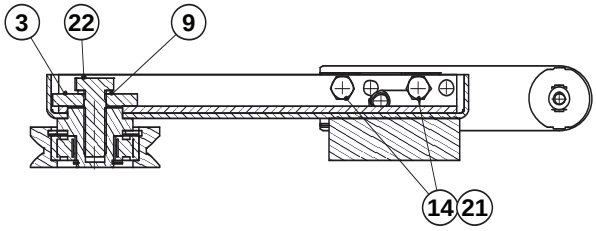
DETAIL B



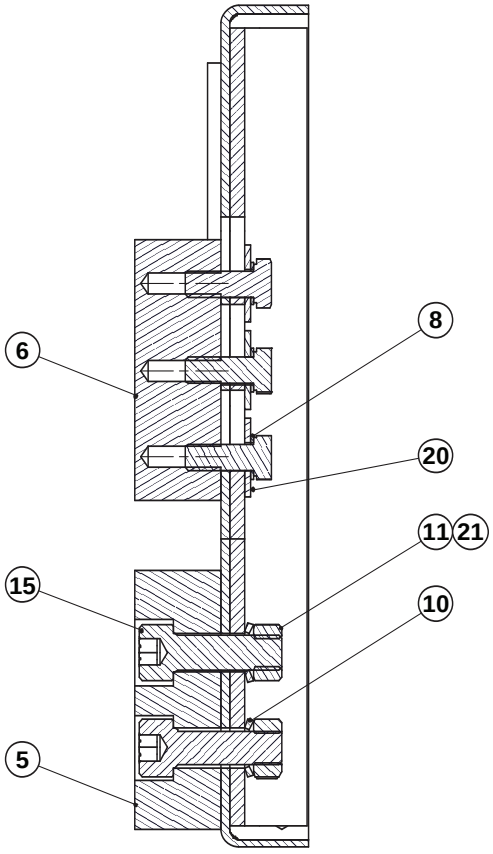
DETAIL A



DETAIL C



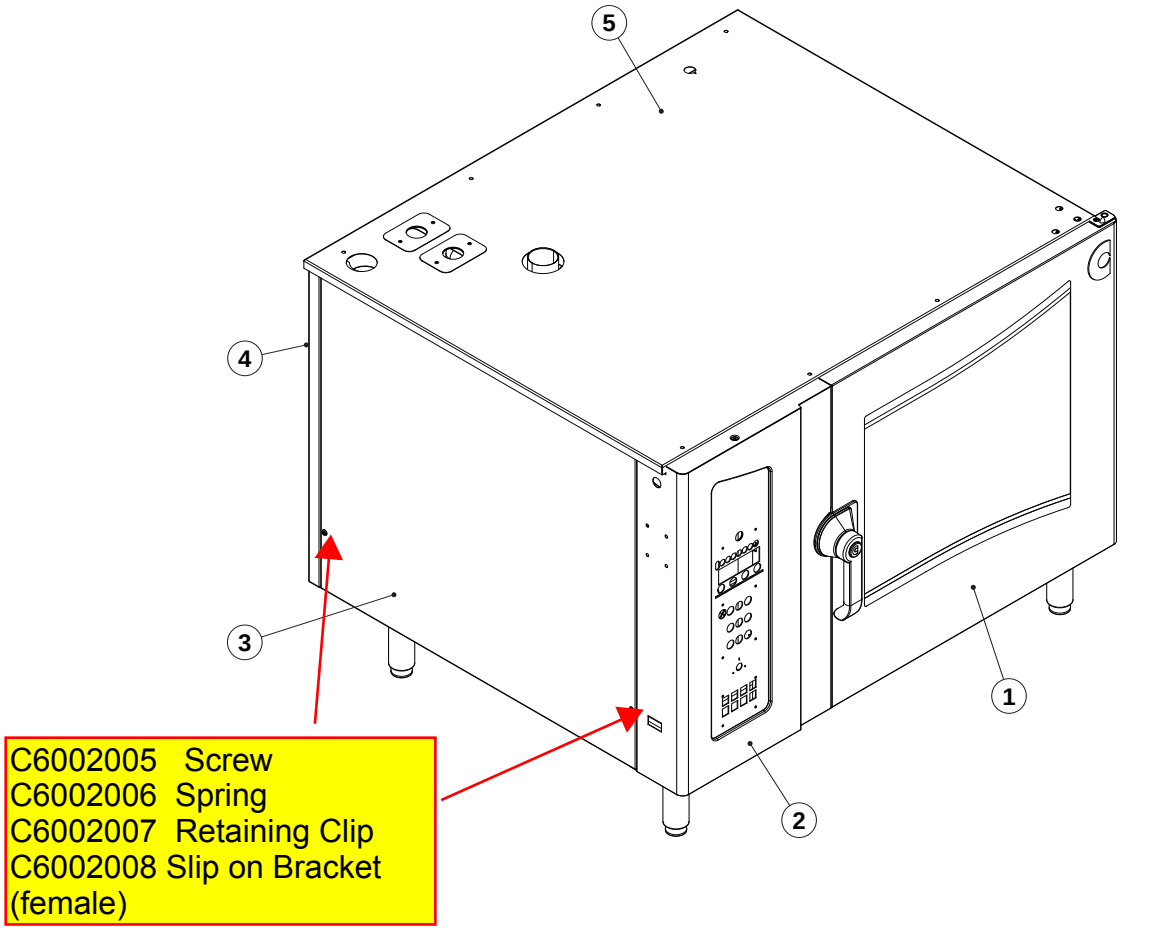
SECTION E-E



SECTION D-D

EXTERIOR SHEETING

ALL 6.20 & 10.10 MODELS



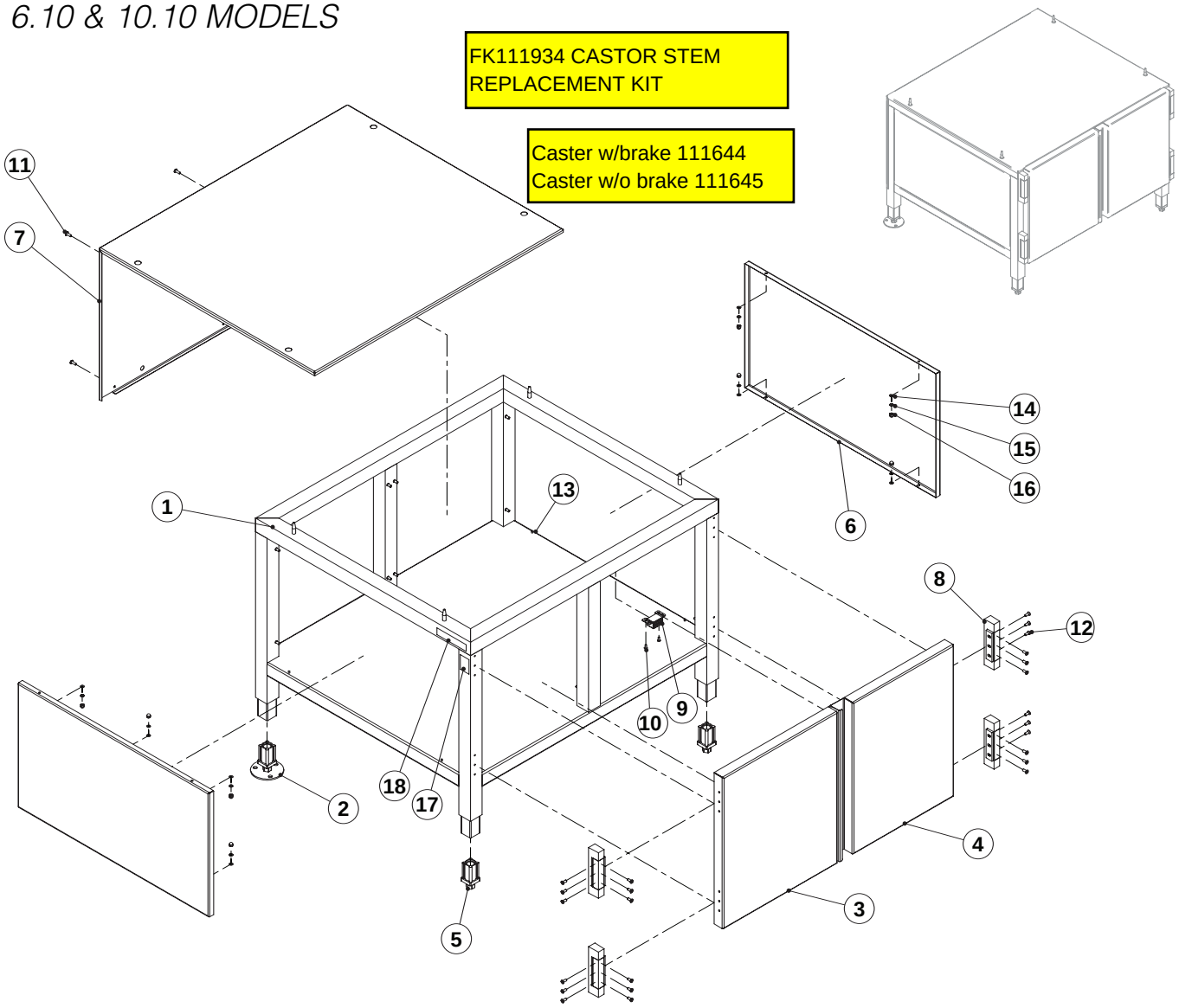
ITEM	QTY	PART N0.	DESCRIPTION
1	1	C2514351	DOOR, 6.20, COMPLETE
-	1	C2514352	DOOR, 10.10, COMPLETE
2	1	C2114652	WELDMENT, CORNER, FRONT LEFT, 6.20
-	1	C2114653	WELDMENT, CORNER, FRONT LEFT, 10.10
3	1	C2114782	PANEL ASSY, LEFT, OGB 6.20, OGS 6.20, OEB 6.20, OES 6.20
-	1	C2114783	PANEL ASSY, LEFT, OGB 10.10, OGS 10.10, OEB 10.10, OES 10.10
4	1	C2114762	PANEL ASSY, REAR, OGB 6.20
-	1	C2114742	PANEL ASSY, REAR, OGS 6.20, OEB 6.20, OES 6.20
-	1	C2114763	PANEL ASSY, REAR, OGB 10.10
-	1	C2114743	PANEL ASSY, REAR, OGS 10.10, OEB 10.10, OES 10.10
5	1	C2115462	PANEL, TOP, OGB 6.20
-	1	C2115452	PANEL, TOP, OGS 6.20
-	1	C2114702	PANEL, TOP, OEB 6.20
-	1	111628	PANEL, TOP, OES 6.20
-	1	C2115463	PANEL, TOP, OGB 10.10
-	1	C2115453	PANEL, TOP, OGS 10.10
-	1	C2114700	PANEL, TOP, OEB 10.10
-	1	111638	PANEL, TOP, OES 10.10

STAND, ASSEMBLY, CLOSED BASE

6.10 & 10.10 MODELS

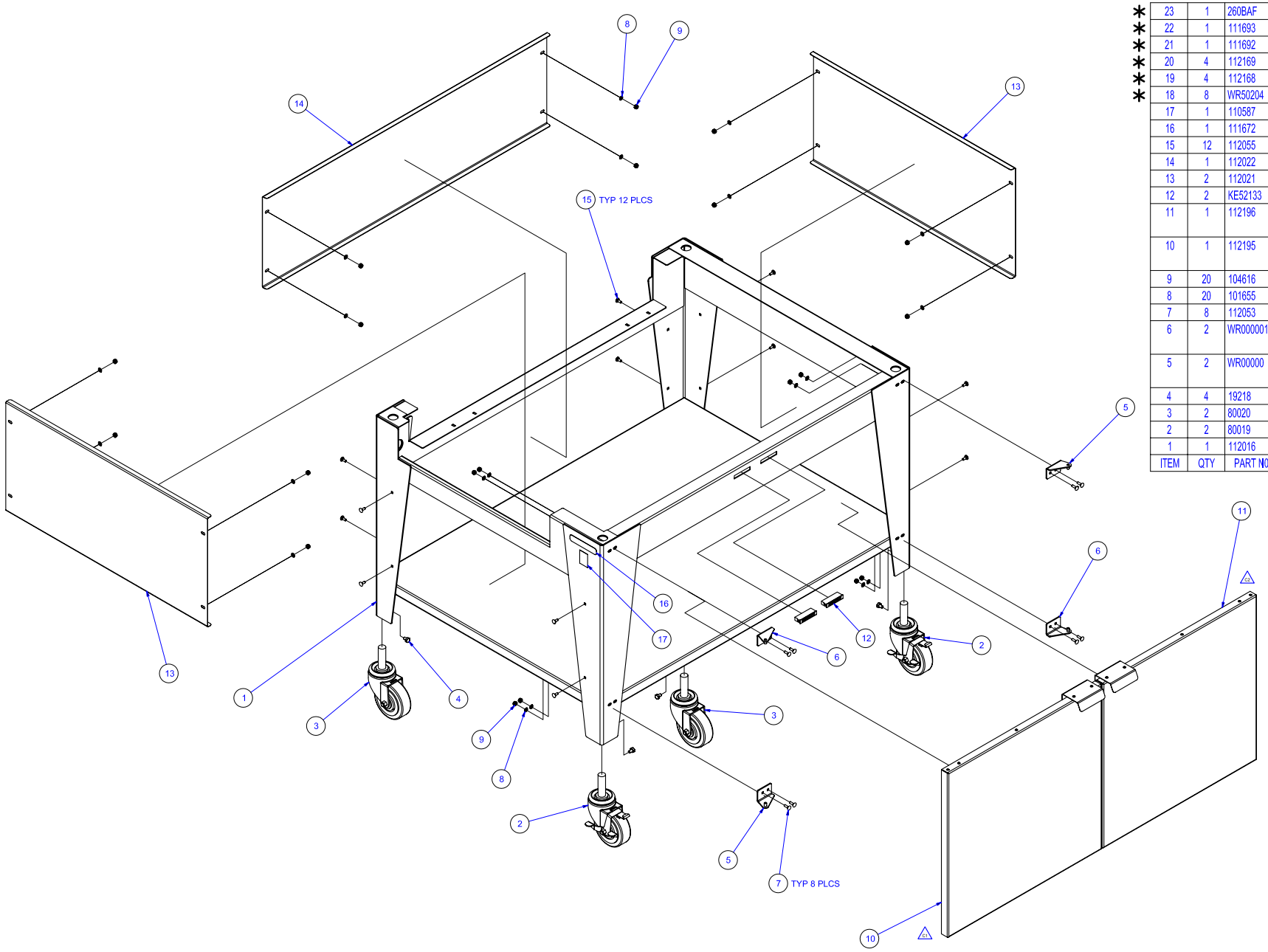
FK111934 CASTOR STEM REPLACEMENT KIT

Caster w/brake 111644
Caster w/o brake 111645

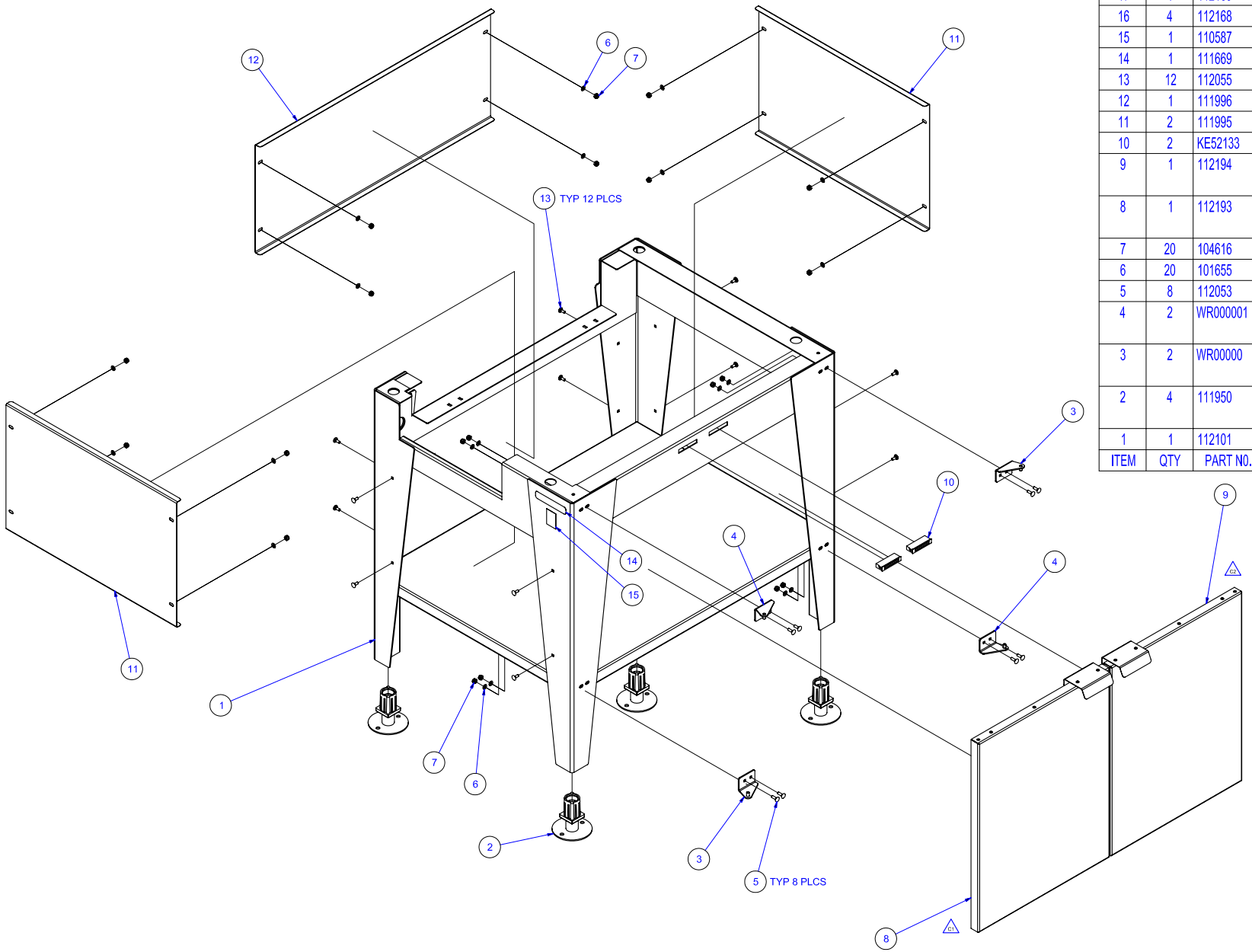


ITEM	QTY	PART N0.	DESCRIPTION
1	1	C3216201	WELDMENT, STAND, COMBI, 6.10/10.10
2	2	100413	FOOT ASS'Y, ADJUSTABLE (FOR 1.250 SQ. TUBING), ANCHORABLE TIEDOWN
3	1	C3216245	WELDMENT, STAND DOOR, 6.10/10.10, LEFT SIDE
4	1	C3216249	WELDMENT, STAND DOOR, 6.10/10.10, RIGHT SIDE
5	2	100241	FOOT, ADJUSTABLE (FOR 1.250 SQ. TUBE)
6	2	C3216237	PANEL, STAND, LEFT & RIGHT SIDE, 6.10/10.10
7	1	C3216238	SHEETING, TOP & REAR, COMBI STAND, 6.10/10.10
8	4	111673	HINGE, COMBI STAND
9	1	111674	CATCH, MAGNETIC, COMBI STAND
10	2	110492	SCREW, 6-32 X 0.312, PAN HD, PHILLIPS, SST
11	3	104080	SCREW, TR, PHH, 8x1/2, TYPE B, SST
12	24	111686	SCREW, 10-32 X 0.500, COUNTERSUNK FLAT HEAD, SST
13	8	111687	STUD, WELD, 6-32 X 0.188, CD, SST, NO FLANGE
14	8	110715	WASHER, 0.158 ID X 0.340 OD X 0.032 THK, SST
15	8	23154	WASHER, LOCK, INTERNAL TOOTH, #6, SST
16	8	14262	NUT, HEX, 6-32, ACORN, SST
17	1	110587	LABEL, SANITATION, UL CLASS NSF #2
18	1	111669	LABEL, COMBI STAND, MODEL NO. CST-10-CB (6.10, 10.10)

WR50204 Shims

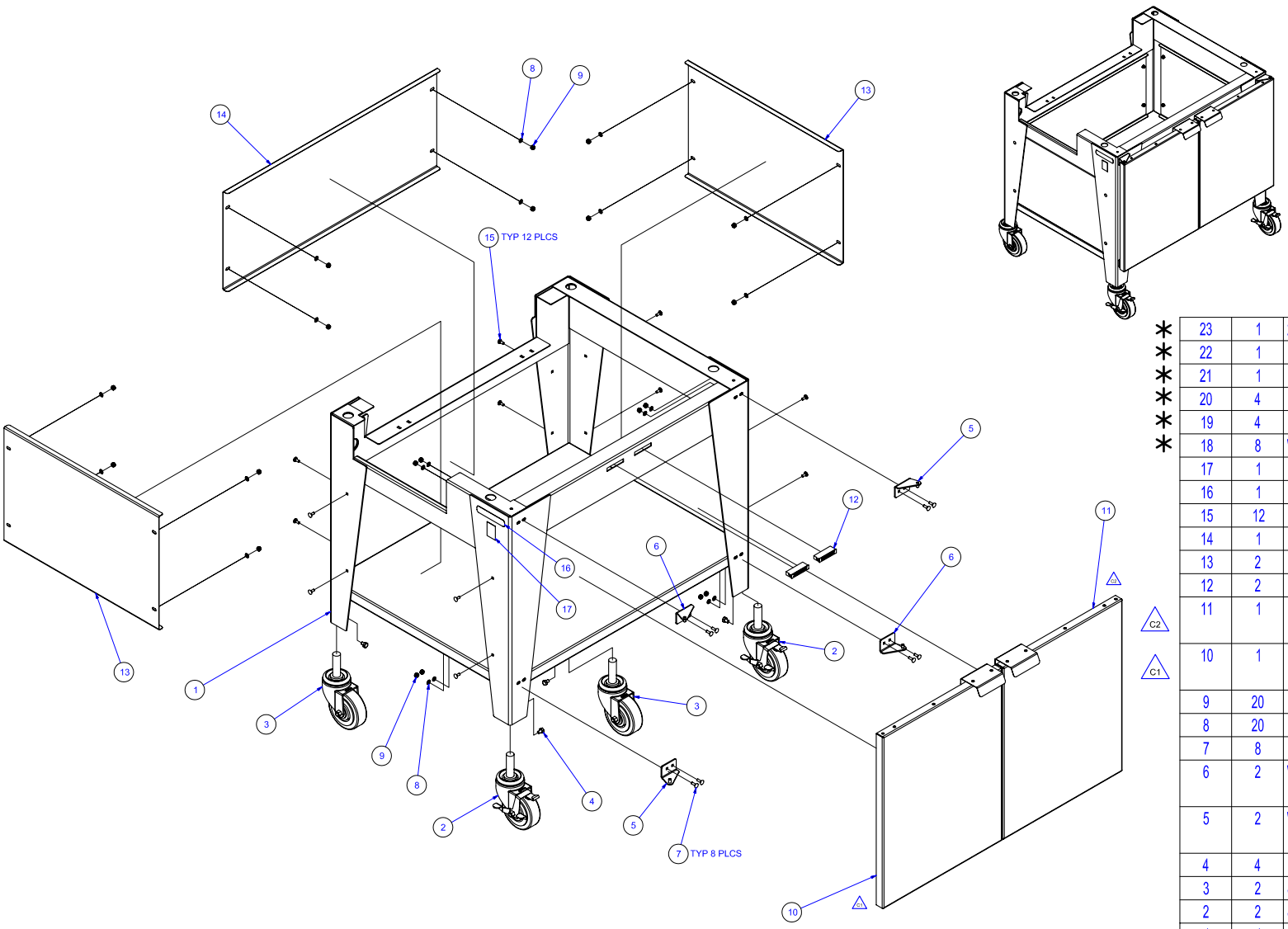


	ITEM	QTY	PART NO.	DESCRIPTION
**	23	1	260BAF	INSTRUCTION, INSTALLATION, COMBI STAND
**	22	1	111693	CLIP, WIRE ROPE, 0.250 DIA., HOT DIPPED GALVANIZED
**	21	1	111692	KIT, RESTRAINING DEVICE, COMBI STAND
**	20	4	112169	SCREW, 3/4-10 X 1, HEX HEAD, ZINC PLATED
**	19	4	112168	WASHER, LOCK, SPLIT, 3/4, ZINC PLATED
**	18	8	WR50204	SHIM, CASTER, "C" SHAPED (FOR 3/4 STEM)
	17	1	110587	LABEL, SANITATION, UL CLASS. NSF #2
	16	1	111672	LABEL, COMBI STAND, MODEL NO. CST-20-CBCA (6.20, 10.20)
	15	12	112055	SCREW, CARRIAGE, 10-24x1/2, SST (RND HEAD, SQ NECK)
	14	1	112022	PANEL, REAR, CLOSED COMBI STAND, X.20
	13	2	112021	PANEL, SIDE, CLOSED COMBI STAND, X.20
	12	2	KE52133	CATCH, MAGNETIC, SNAP-IN, SOUTHCO #02-10-201-10
	11	1	112196	ASSEMBLY, DOOR, DOUBLE PANEL, RIGHT HAND, COMBI STAND, X.20
	10	1	112195	ASSEMBLY, DOOR, DOUBLE PANEL, LEFT HAND, COMBI STAND, X.20
	9	20	104616	NUT, HEX, LOCK, 10-24, SST, NYLON INSERT
	8	20	101655	WASHER, FLAT, #10, SST
	7	8	112053	SCREW, CARRIAGE, 10-24x5/8, SST (RND HEAD, SQ NECK)
	6	2	WR000001	WELDMENT, HINGE BRACKET, LOWER RIGHT AND UPPER LEFT
	5	2	WR00000	WELDMENT, HINGE BRACKET, LOWER LEFT AND UPPER RIGHT
	4	4	19218	SCREW, 1/4-20 X 3/8, HEX HEAD, SST
	3	2	80020	CASTER, SWIVEL, 4", WITHOUT BRAKE
	2	2	80019	CASTER, SWIVEL, 4", WITH BRAKE
	1	1	112016	WELDMENT, CLOSED COMBI CASTER STAND, X.20



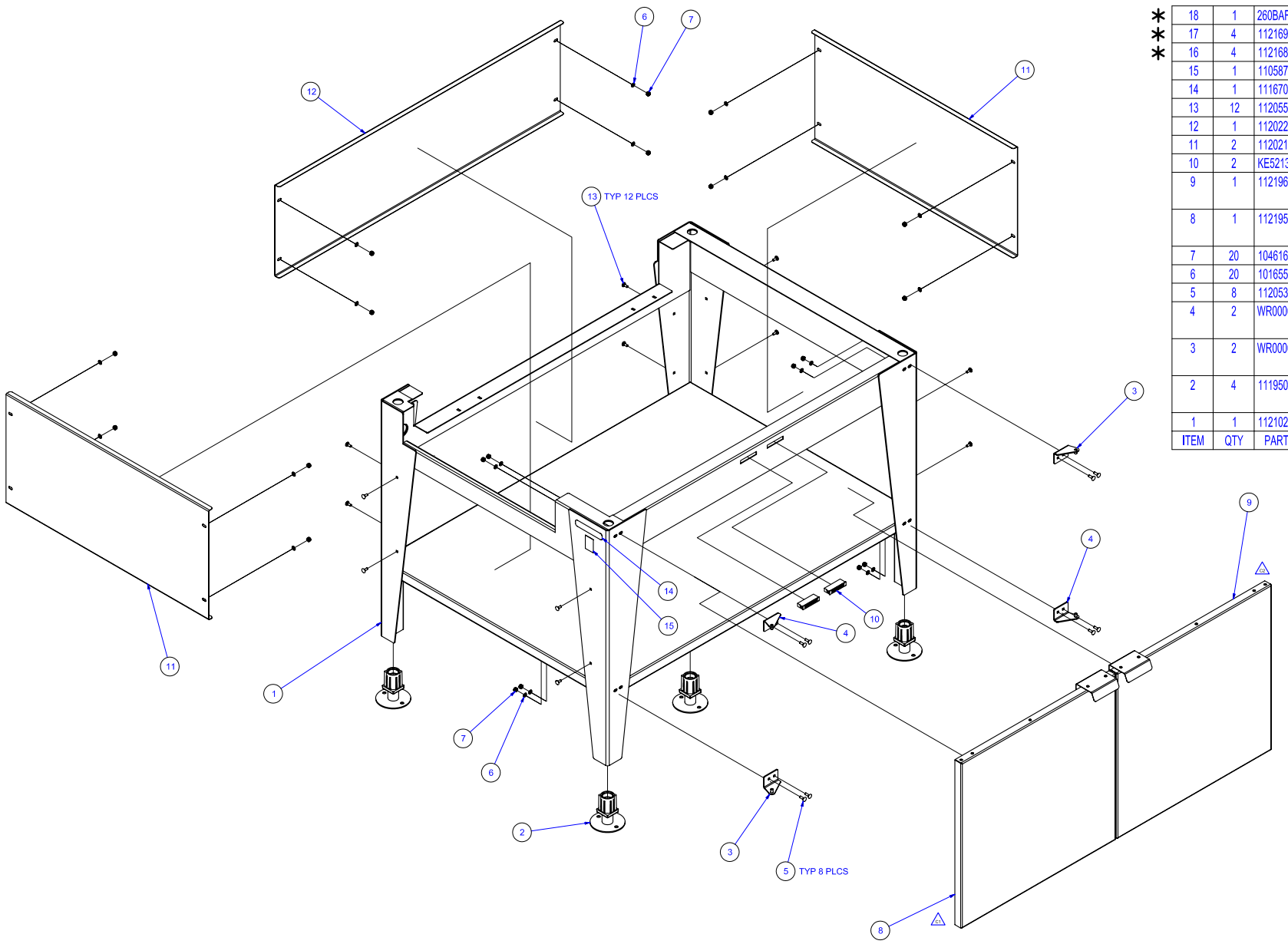
ITEM	QTY	PART NO.	DESCRIPTION
18	1	260BAF	INSTRUCTION, INSTALLATION, COMBI STAND
17	4	112169	SCREW, 3/4-10 X 1, HEX HEAD, ZINC PLATED
16	4	112168	WASHER, LOCK, SPLIT, 3/4, ZINC PLATED
15	1	110587	LABEL, SANITATION, UL CLASS. NSF #2
14	1	111669	LABEL, COMBI STAND, MODEL NO. CST-10-CB (6.10, 10.10)
13	12	112055	SCREW, CARRIAGE, 10-24x1/2, SST (RND HEAD, SQ NECK)
12	1	111996	PANEL, REAR, CLOSED COMBI STAND, X.10
11	2	111995	PANEL, SIDE, CLOSED COMBI STAND, X.10
10	2	KE52133	CATCH, MAGNETIC, SNAP-IN, SOUTHCO #02-10-201-10
9	1	112194	ASSEMBLY, DOOR, DOUBLE PANEL, RIGHT HAND, COMBI STAND, X.10
8	1	112193	ASSEMBLY, DOOR, DOUBLE PANEL, LEFT HAND, COMBI STAND, X.10
7	20	104616	NUT, HEX, LOCK, 10-24, SST, NYLON INSERT
6	20	101655	WASHER, FLAT, #10, SST
5	8	112053	SCREW, CARRIAGE, 10-24x5/8, SST (RND HEAD, SQ NECK)
4	2	WR000001	WELDMENT, HINGE BRACKET, LOWER RIGHT AND UPPER LEFT
3	2	WR00000	WELDMENT, HINGE BRACKET, LOWER LEFT AND UPPER RIGHT
2	4	111950	FOOT, ADJUSTABLE, FOR 1-1/2" SQUARE TUBING (16 GA OR 18 GA WALL), WITH 3-1/2" SST FLANGE W/HOLES
1	1	112101	WELDMENT, CLOSED COMBI FOOT STAND, X.10

WR50204 Shims



	ITEM	QTY	PART NO.	DESCRIPTION
*	23	1	260BAF	INSTRUCTION, INSTALLATION, COMBI STAND
*	22	1	111693	CLIP, WIRE ROPE, 0.250 DIA., HOT DIPPED GALVANIZED
*	21	1	111692	KIT, RESTRAINING DEVICE, COMBI STAND
*	20	4	112169	SCREW, 3/4-10 X 1, HEX HEAD, ZINC PLATED
*	19	4	112168	WASHER, LOCK, SPLIT, 3/4, ZINC PLATED
*	18	8	WR50204	SHIM, CASTER, "C" SHAPED (FOR 3/4 STEM)
	17	1	110587	LABEL, SANITATION, UL CLASS. NSF #2
	16	1	111671	LABEL, COMBI STAND, MODEL NO. CST-10-CBCA (6,10, 10,10)
	15	12	112055	SCREW, CARRIAGE, 10-24x1/2, SST (RND HEAD, SQ NECK)
	14	1	111996	PANEL, REAR, CLOSED COMBI STAND, X.10
	13	2	111995	PANEL, SIDE, CLOSED COMBI STAND, X.10
	12	2	KE52133	CATCH, MAGNETIC, SNAP-IN, SOUTHCO #02-10-201-10
C2	11	1	112194	ASSEMBLY, DOOR, DOUBLE PANEL, RIGHT HAND, COMBI STAND, X.10
C1	10	1	112193	ASSEMBLY, DOOR, DOUBLE PANEL, LEFT HAND, COMBI STAND, X.10
	9	20	104616	NUT, HEX, LOCK, 10-24, SST, NYLON INSERT
	8	20	101655	WASHER, FLAT, #10, SST
	7	8	112053	SCREW, CARRIAGE, 10-24x5/8, SST (RND HEAD, SQ NECK)
	6	2	WR000001	WELDMENT, HINGE BRACKET, LOWER RIGHT AND UPPER LEFT
	5	2	WR00000	WELDMENT, HINGE BRACKET, LOWER LEFT AND UPPER RIGHT
	4	4	19218	SCREW, 1/4-20 X 3/8, HEX HEAD, SST
	3	2	80020	CASTER, SWIVEL, 4", WITHOUT BRAKE
	2	2	80019	CASTER, SWIVEL, 4", WITH BRAKE
	1	1	111990	WELDMENT, CLOSED COMBI CASTER STAND, X.10

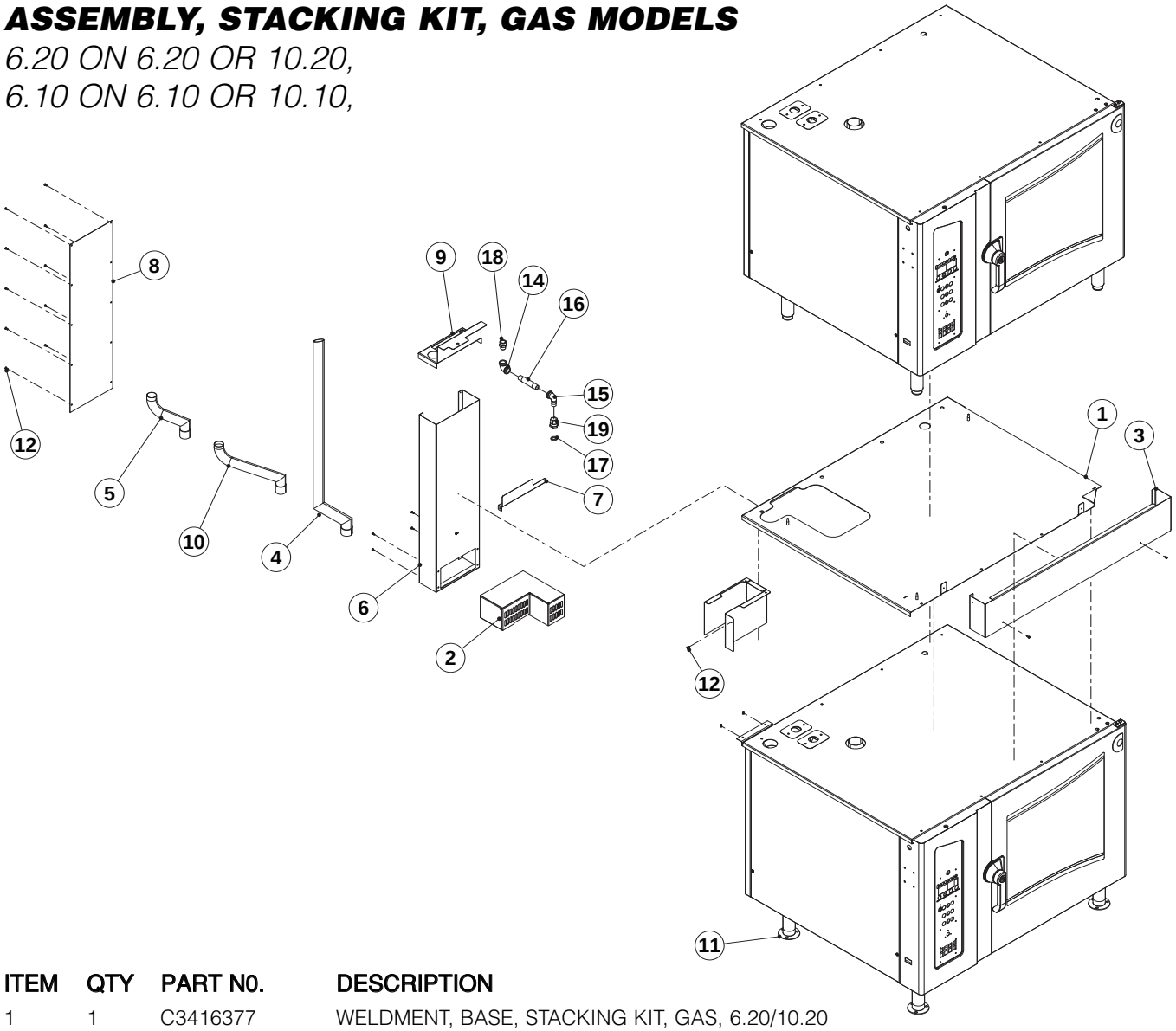
*= NOT SHOWN



	ITEM	QTY	PART NO.	DESCRIPTION
*	18	1	260BAF	INSTRUCTION, INSTALLATION, COMBI STAND
*	17	4	112169	SCREW, 3/4-10 X 1, HEX HEAD, ZINC PLATED
*	16	4	112168	WASHER, LOCK, SPLIT, 3/4, ZINC PLATED
	15	1	110587	LABEL, SANITATION, UL CLASS. NSF #2
	14	1	111670	LABEL, COMBI STAND, MODEL NO. CST-20-CB (6.20, 10.20)
	13	12	112055	SCREW, CARRIAGE, 10-24x1/2, SST (RND HEAD, SQ NECK)
	12	1	112022	PANEL, REAR, CLOSED COMBI STAND, X.20
	11	2	112021	PANEL, SIDE, CLOSED COMBI STAND, X.20
	10	2	KE52133	CATCH, MAGNETIC, SNAP-IN, SOUTHCO #02-10-201-10
	9	1	112196	ASSEMBLY, DOOR, DOUBLE PANEL, RIGHT HAND, COMBI STAND, X.20
	8	1	112195	ASSEMBLY, DOOR, DOUBLE PANEL, LEFT HAND, COMBI STAND, X.20
	7	20	104616	NUT, HEX, LOCK, 10-24, SST, NYLON INSERT
	6	20	101655	WASHER, FLAT, #10, SST
	5	8	112053	SCREW, CARRIAGE, 10-24x5/8, SST (RND HEAD, SQ NECK)
	4	2	WR000001	WELDMENT, HINGE BRACKET, LOWER RIGHT AND UPPER LEFT
	3	2	WR00000	WELDMENT, HINGE BRACKET, LOWER LEFT AND UPPER RIGHT
	2	4	111950	FOOT, ADJUSTABLE, FOR 1-1/2" SQUARE TUBING (16 GA OR 18 GA WALL), WITH 3-1/2" SST FLANGE W/HOLES
	1	1	112102	WELDMENT, CLOSED COMBI FOOT STAND, X.20

ASSEMBLY, STACKING KIT, GAS MODELS

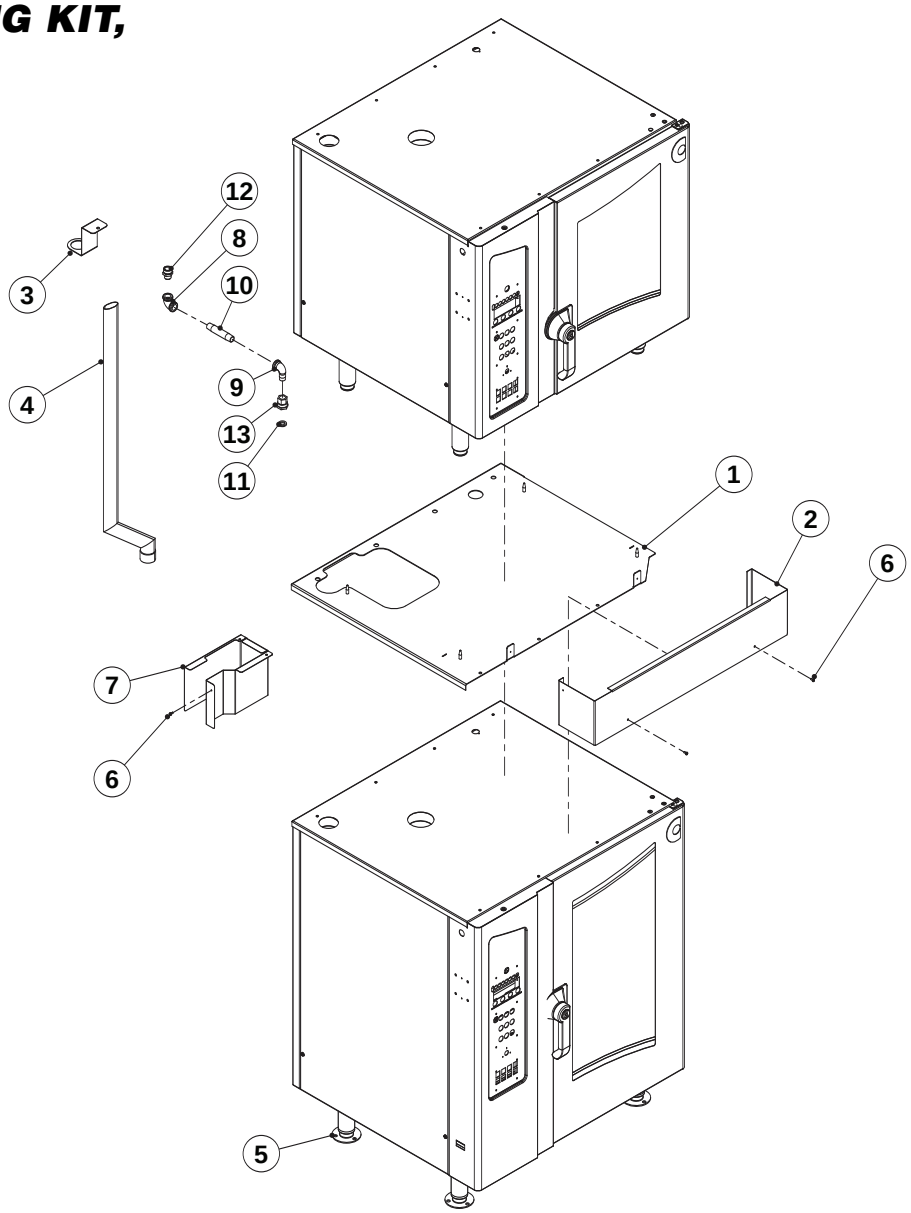
6.20 ON 6.20 OR 10.20,
6.10 ON 6.10 OR 10.10,



ITEM	QTY	PART N0.	DESCRIPTION
1	1	C3416377	WELDMENT, BASE, STACKING KIT, GAS, 6.20/10.20
2	1	C3416369	WELDMENT, EXHAUST SHIELD, STACKING KIT, GAS
3	1	C3416363	SHROUD, STACKING KIT, GAS, 6.20
	1	C3416361	SHROUD, STACKING KIT, GAS, 6.10
4	1	C2016200	PIPE, STEAM EXHAUST, GAS, STACKING KIT
5	1	C2016211	FLUE PIPE, STEAM GENERATOR, STACKING KIT, 6.20
	1	C2016212	FLUE PIPE, STEAM GENERATOR, STACKING KIT, 6.10
6	1	C3416373	SHROUD, EXHAUST, STACKING KIT, GAS
7	1	C3417044	BRACKET, COVER PLATE, STACKING KIT, GAS
8	1	C3416372	COVER, EXHAUST SHROUD, STACKING KIT, GAS
9	1	C3416392	GUIDE, FLUE, SHROUD, TOP, STACKING KIT, GAS 6.20
	1	C3416374	GUIDE, FLUE SHROUD, TOP, STACKING KIT, GAS, 6.10
10	1	C2016204	FLUE PIPE, HOT AIR, STACKING KIT. 6.20
	1	C2016206	FLUE PIPE, HOT AIR, STACKING KIT, 6.10
11	4	06162	FOOT, 6.00" ADJUSTABLE, FLANGED/TRI-BOLT HOLE PATTERN
12	20	C8001024	SCREW, FILISTER HD, M4x10 DIN 7985
14	1	05250	ELBOW, 90º, 1/2 NPT, BRASS (USED FOR STEAM GENERATOR)
15	1	05253	ELBOW, STREET, 90º, 1/2 NPT, BRASS (USED FOR STEAM GENERATOR)
16	1	14335	NIPPLE 0.500 NPT X 4.000, SCH 40, BRASS, TBE (USED FOR STEAM GENERATOR)
17	1	108034	WASHER 3/4 GHT HOSE (USED FOR STEAM GENERATOR)
18	1	111704	FITTING, 3/4 GHT MALE, X 1/2 NPT MALE, BRASS (USED FOR STEAM GENERATOR)
19	1	111705	FITTING, 3/4 GHT FEMALE SWIVEL X 1/2 NPT FEMALE, BRASS (USED FOR STEAM GENERATOR)
20	A/R	00909	THREAD SEALANT, LOCTITE 592 (USED FOR STEAM GENERATOR)
22	1	111702	AIR DUCT, STACKING KIT, X.20 (USED FOR STEAM GENERATOR)
	1	111703	AIR DUCT, STACKING KIT, X.10 (USED FOR STEAM GENERATOR)

ASSEMBLY, STACKING KIT, ELECTRIC MODELS

6.10 ON 6.10 OR 10.10



ITEM	QTY	PART N0.	DESCRIPTION
1*	1	C3416368	WELDMENT, BASE, STACKING KIT, ELECTRIC, 6.10/10.10
2*	1	C3416362	SHROUD, STACKING KIT, ELECTRIC, X.10
3*	1	C3416365	BRACKET, STEAM EXHAUST PIPE, STACKING KIT, ELECTRIC
4*	1	C2016201	PIPE, STEAM EXHAUST, ELECTRIC, STACKING KIT
5*	4	06162	FOOT, 6.00" ADJUSTABLE, FLANGED/TRI-BOLT HOLE PATTERN
6*	3	C8001024	SCREW, FILISTER HD, M4x10 DIN 7985
7*	1	111703	AIR DUCT, STACKING KIT, x.10
8	1	05250	ELBOW, 90º, 1/2 NPT, BRASS
9	1	05253	ELBOW, STREET, 90º, 1/2 NPT, BRASS
10	1	14335	NIPPLE 0.500 NPT X 4.000, SCH 40, BRASS, TBE
11	1	108034	WASHER 3/4 GHT HOSE
12	1	111704	FITTING, 3/4 GHT MALE, X 1/2 NPT MALE, BRASS
13	1	111705	FITTING, 3/4 GHT FEMALE SWIVEL X 1/2 NPT FEMALE, BRASS
14	A/R	00909	THREAD SEALANT,LOCTITE 592

* Used for Steam Generator only.

CLEVELAND RANGE OGB 6.20/10.10
SEQUENCE OF OPERATIONS

When using these instructions refer to the OGB 6.20/10.10 wiring schematic.

1 When 120 VAC is applied to the combi, it is sent through the line filter (Z1) to the Power Control Switch (S1).

2 When the Power Control Switch (S1) is closed
   a The red light in the switch is energized.
   b 120 VAC is sent through the 7 amp fuse (F10) to terminal 1 of connector X11 on the Motor Drive (U10)
   c 120vac is sent through the 2 amp fuse (F1.1) to
      - The primary of the Hot Air 24v Transformer (T1)
         ◊ 24 VAC is sent from the secondary of the transformer to the Hot air Burner Control (N20)
      - The primary of the Steam 24v Transformer (T2)
         ◊ 24 VAC is sent from the secondary of the transformer to the Steam Burner Control (N21)
      - To terminal 12 of connector X1 on the Hot Air Burner Control (N20)
      - To terminal 12 of connector X1 on the Steam Burner Control (N21)
      - The 12 VDC Power Supply (G1)
         ◊ 12 VDC is sent to terminals 1 and 2 of connector X20 on the Gas Board (A20)
         ◊ 12 VDC is sent to terminal 3 and 4 of connector X10 on the Control Board (A10)
      - To terminal 2 of connector X1 on the Hot Air Power Burner and Fan Control (U20)
      - To terminal 2 of connector X1 on the Steam Power Burner and Fan Control (U21)
      - To terminal 1 of connector X12 on the Control Board (A10)
   d With 120 VAC to the Control Board (A10) The Operation Board (A11) is energized
      - An alarm will sound for one second
      - All the LED's and the display will energize one at a time.
      - "STARTING" will be displayed for 3 seconds
      - "Please wait" will be displayed
      - The international model number will be displayed
      - The time and date will be displayed and this will continue until the on/off switch is depressed.

3 When the ON/OFF is depressed with the combi in the steam mode
   a After a date change (the first time the combi is turned on) the display will ask "Generator Flush?". If no answer is given in 10 seconds or a yes is indicated the flush will begin.

- 120 VAC is sent from terminal 1 of connector X13 on the Control Board (A10) to the Generator Pump (M4).
- As the water level drops below the probes the fill solenoid (Y3) will energize. This rocking of the water will help flush scale from the generator.
- Then the pump will be energized again
- When the condensate box is heated to 140 degrees F at the B3probe, 120 VAC is sent from terminal 5 of connector X12 to the condenser valve (Y1) until the temperature drops.,

b The display will show the set temperature and set time.

c The Control Board (A10) will check the water level by looking for a ground at terminals 1 and 2 on connector X15. These are connected to the high and low probes (B1) in the steam generator.
- If the ground is not found 120 VAC is sent from terminal 7 on connector X12 on the Control Board (A10) to the fill solenoid (Y3)
- The fill solenoid opens and the generator is filled until both probes are grounded.
  - ◊ If the top probe becomes ungrounded for more that 5 seconds the fill solenoid (Y3) will energize.
  - ◊ If the bottom probe becomes ungrounded the combi will fill immediately and the combi will not heat

d When the terminal 2 on connector X15 is grounded, the Control Board (A10) transmits and receives a signal from terminals 5,6,7 and 8 on connector X10 to terminals 3,4,5 and 6 of connector X28 on the Gas Board (A20)
- The Gas Board (A20) begins the steam generator heat circuit
  - ◊ A signal is sent from terminal 8 of connector X24 to terminal 4 of connector X2 on the Steam Power Burner and Fan Control (U21) selecting the set speed of the combustion blower.
    - (a) When this speed is attained the signal is sent from terminal 2 of connector X2 on the Steam Power Burner and Fan Control (U21) to terminal 9 of connector X24 on the Gas Board (A20)
  - ◊ A request for heat is sent from terminal 3 of connector X21 on the Gas Board (A20) to terminal 10 on connector X1 on the Steam Burner Control Module (N21)
    - (a) 24 VAC is sent from terminal 2 of connector X2 on the Steam Burner Control Module (N21) to the hot surface igniter (R20).
    - (b) The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
    - (c) The Steam Burner Control Module (N21) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 11 of connector X25 on the Gas Board (A20)
- The steam generator heat circuit continues until 190 degrees F is detected from the Steam Generator probe (B4) at terminals 1 and 2 of connector X17 on the Control Board (A10)

4 With the combi in the steam mode with time on the timer, the door closed and the start switch is depressed

a The front display will include a lighted bar under the steam symbol
   - When the heat circuit is energized the heat symbol will be energized
   - The cooking mode symbol will be energized.
   - The time display will invert and begin to count down.

b The fan circuit is energized by the Control Board (A10) transmitting and receiving a signal from terminals 5,6,7 and 8 on connector X10 to terminals 3,4,5 and 6 of connector X28 on the Gas Board (A20)

c The Gas board (A20) Transmits a signal from terminal 4 of connector X26 to the Motor Drive.
   - The motor Drive Board sends a signal through the thermal switch in the motor from Terminal 5 and receives on terminal 6
   - If the thermal switch is not open the Motor Drive Board (U10) sends 240 VAC 3 phase to the motor.
   - The motor reverses direction every 120 seconds with a 15 second coast.
   - **NOTE:** If the set temperature is less than 212 degrees F than fan will be pulsed on for 2 seconds every 60 seconds after the cabinet set temp (B6).

d The steam generator heat circuit is energized
   - A signal is sent from terminal 8 of connector X24 on the Gas Board (A20) to terminal 4 of connector X2 on the Steam Power Burner and Fan Control (U21) selecting the set speed of the combustion blower.
     ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Steam Power Burner and Fan Control (U21) to terminal 9 of connector X24 on the Gas Board (A20)
   - A request for heat is sent from terminal 3 of connector X21 on the Gas Board (A20) to terminal 10 on connector X1 on the Steam Burner Control Module (N21)
     ◊ 24 VAC is sent from terminal 2 of connector X2 on the Steam Burner Control Module (N21) to the hot surface igniter (R20).
     ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
     ◊ The Steam Burner Control Module (N21) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 11 of connector X25 on the Gas Board (A20)
   - The heat circuit continues until both the cabinet set temperature and the bypass probe (B5) are satisfied
     ◊ **NOTE:** If the set temperature is above 212 degrees F the hot air circuit will be energized (after the by pass probe is satisfied) until the compartment setting is reached. The steam circuit always takes precedence.

e When the condensate box is heated to 140 degrees F at the B3probe, 120 VAC is sent from terminal 5 of connector X12 to the condenser valve (Y1) until the temperature drops.

f When the timer counts to 0 or the core temp probe (B10) reaches the set amount the cycle ends and the steam generator reverts to the standby temperature of 190-degree F.

5 With the combi in the Hot Air mode with time on the timer, the door closed and the start switch is depressed

b The front display will include a lighted bar under the Hot Air symbol

- When the heat circuit is energized the heat symbol will be energized
- The cooking mode symbol will be energized.
- The time display will invert and begin to count down.

c The fan circuit is energized by the Control Board (A10) transmitting and receiving a signal from terminals 5,6,7 and 8 on connector X10 to terminals 3,4,5 and 6 of connector X28 on the Gas Board (A20)

d The Gas board (A20) Transmits a signal from terminal 4 of connector X26 to the Motor Drive.

- The motor Drive Board sends a signal through the thermal switch in the motor from Terminal 5 and receives on terminal 6
- If the thermal switch is not open the Motor Drive Board (U10) sends 240 VAC 3 phase to the motor.
- The motor reverses direction every 120 seconds with a 15 second coast.
- **NOTE:** If the set temperature is less than 212 degrees F than fan will be pulsed on for 2 seconds every 60 seconds after the cabinet set temp (B6).

e Hot air heat circuit is energized

- A signal is sent from terminal 2 of connector X24 on the Gas Board (A20) to terminal 4 of connector X2 on the Hot Air Power Burner and Fan Control (U20) selecting the set speed of the combustion blower.
  - ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Hot Air Power Burner and Fan Control (U20) to terminal 3 of connector X24 on the Gas Board (A20)
- A request for heat is sent from terminal 3 of connector X20 on the Gas Board (A20) to terminal 10 on connector X1 on the Hot Air Control Module (N20)
  - ◊ 24 VAC is sent from terminal 2 of connector X2 on the Hot Air Control Module (N20) to the hot surface igniter (R20).
  - ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
  - ◊ The Hot Air Burner Control Module (N20) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 10 of connector X25 on the Gas Board (A20

f The heat circuit will remain energized until the cabinet set temperature is reached

g When the condensate box is heated to 140 degrees F at the B3probe, 120 VAC is sent from terminal 5 of connector X12 to the condenser valve (Y1) until the temperature drops.

h If the "Crisp and Tasty" mode is selected

- 120 VAC is sent from terminal 6 of connector X12 on the Control Board (A10) to the Dehumidification Valve (Y2) to pull the humidity out of the cabinet down the drain.
  - ◊ In the light and medium modes (one and two drops in the display) the Y2 valve will be energized until the bypass probe (B5) is satisfied.
  - ◊ In the full mode (3 drops in the display) the Y2 valve will be energized continuously.

i When the timer counts to 0 or the core temp probe (B10) reaches the set amount the cycle ends and the steam generator reverts to the standby temperature of 190-degree F.

5 With the combi in the Combi mode with time on the timer, the door closed and the start switch is depressed

a The front display will include a lighted bar under the Combi symbol

- When the heat circuit is energized the heat symbol will be energized
- The cooking mode symbol will be energized.
- The time display will invert and begin to count down.

b The fan circuit is energized by the Control Board (A10) transmitting and receiving a signal from terminals 5,6,7 and 8 on connector X10 to terminals 3,4,5 and 6 of connector X28 on the Gas Board (A20)

c The Gas board (A20) Transmits a signal from terminal 4 of connector X26 to the Motor Drive.

- The motor Drive Board sends a signal through the thermal switch in the motor from Terminal 5 and receives on terminal 6
- If the thermal switch is not open the Motor Drive Board (U10) sends 220 VAC 3 phase to the motor.
- The motor reverses direction every 120 seconds with a 15 second coast.
- **NOTE:** If the set temperature is less than 212 degrees F than fan will be pulsed on for 2 seconds every 60 seconds after the cabinet set temp (B6).

d The steam generator heat circuit is energized. Steam production takes precedence in the Combi mode

- A signal is sent from terminal 8 of connector X24 on the Gas Board (A20) to terminal 4 of connector X2 on the Steam Power Burner and Fan Control (U21) selecting the set speed of the combustion blower.

- ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Steam Power Burner and Fan Control (U21) to terminal 9 of connector X24 on the Gas Board (A20)

- A request for heat is sent from terminal 3 of connector X21 on the Gas Board (A20) to terminal 10 on connector X1 on the Steam Burner Control Module (N21)
  - ◊ 24 VAC is sent from terminal 2 of connector X2 on the Steam Burner Control Module (N21) to the hot surface igniter (R20).
  - ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
  - ◊ The Steam Burner Control Module (N21) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 11 of connector X25 on the Gas Board (A20)

e After the bypass probe (B5) is satisfied then the hot air heat circuit is energized to increase the cabinet temperature to the setting.

- A signal is sent from terminal 2 of connector X24 on the Gas Board (A20) to terminal 4 of connector X2 on the Hot Air Power Burner and Fan Control (U20) selecting the set speed of the combustion blower.
  - ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Hot Air Power Burner and Fan Control (U20) to terminal 3 of connector X24 on the Gas Board (A20)
- A request for heat is sent from terminal 3 of connector X20 on the Gas Board (A20) to terminal 10 on connector X1 on the Hot Air Control Module (N20)
  - ◊ 24 VAC is sent from terminal 2 of connector X2 on the Hot Air Control Module (N20) to the hot surface igniter (R20).
  - ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
  - ◊ The Hot Air Burner Control Module (N20) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 10 of connector X25 on the Gas Board (A20
- The heat circuit will remain energized until the cabinet set temperature is reached
- If the bypass probe (B5) drops below the set level the steam heat circuit will start again.

f When the condensate box is heated to 140 degrees F at the B3probe, 120 VAC is sent from terminal 5 of connector X12 to the condenser valve (Y1) until the temperature drops.

g If the “Crisp and Tasty” mode is selected

- 120 VAC is sent from terminal 6 of connector X12 on the Control Board (A10) to the Dehumidification Valve (Y2) to pull the humidity out of the cabinet down the drain.
  - ◊ In the light and medium modes (one and two drops in the display) the Y2 valve will be energized until the bypass probe (B5) is satisfied.

- ◊ In the full mode (3 drops in the display) the Y2 valve will be energized continuously.

h When the timer counts to 0 or the core temp probe (B10) reaches the set amount the cycle ends and the steam generator reverts to the standby temperature of 190-degree F.

6 With the combi in the Rethermalization mode with time on the timer, the door closed and the start switch is depressed

a The front display will include a lighted bar under the Retherm symbol
- When the heat circuit is energized the heat symbol will be energized
- The cooking mode symbol will be energized.
- The time display will invert and begin to count down.

b The fan circuit is energized by the Control Board (A10) transmitting and receiving a signal from terminals 5,6,7 and 8 on connector X10 to terminals 3,4,5 and 6 of connector X28 on the Gas Board (A20)

c The Gas board (A20) Transmits a signal from terminal 4 of connector X26 to the Motor Drive.
- The motor Drive Board sends a signal through the thermal switch in the motor from Terminal 5 and receives on terminal 6
- If the thermal switch is not open the Motor Drive Board (U10) sends 220 VAC 3 phase to the motor.
- The motor reverses direction every 120 seconds with a 15 second coast.
- **NOTE:** If the set temperature is less than 212 degrees F than fan will be pulsed on for 2 seconds every 60 seconds after the cabinet set temp (B6).

d The steam generator heat circuit is energized. Steam production takes precedence in the Combi mode
- A signal is sent from terminal 8 of connector X24 on the Gas Board (A20) to terminal 4 of connector X2 on the Steam Power Burner and Fan Control (U21) selecting the set speed of the combustion blower.
  - ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Steam Power Burner and Fan Control (U21) to terminal 9 of connector X24 on the Gas Board (A20)
- A request for heat is sent from terminal 3 of connector X21 on the Gas Board (A20) to terminal 10 on connector X1 on the Steam Burner Control Module (N21)
  - ◊ 24 VAC is sent from terminal 2 of connector X2 on the Steam Burner Control Module (N21) to the hot surface igniter (R20).
  - ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
  - ◊ The Steam Burner Control Module (N21) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 11 of connector X25 on the Gas Board (A20)

e After the bypass probe (B5) is satisfied then the hot air heat circuit is energized to increase the cabinet temperature to the setting.

- A signal is sent from terminal 2 of connector X24 on the Gas Board (A20) to terminal 4 of connector X2 on the Hot Air Power Burner and Fan Control (U20) selecting the set speed of the combustion blower.
  - ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Hot Air Power Burner and Fan Control (U20) to terminal 3 of connector X24 on the Gas Board (A20)
- A request for heat is sent from terminal 3 of connector X20 on the Gas Board (A20) to terminal 10 on connector X1 on the Hot Air Control Module (N20)
  - ◊ 24 VAC is sent from terminal 2 of connector X2 on the Hot Air Control Module (N20) to the hot surface igniter (R20).
  - ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
  - ◊ The Hot Air Burner Control Module (N20) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 10 of connector X25 on the Gas Board (A20
- The heat circuit will remain energized until the cabinet set temperature is reached
- If the bypass probe (B5) drops below the set level the steam heat circuit will start again.

f When the condensate box is heated to 140 degrees F at the B3probe, 120 VAC is sent from terminal 5 of connector X12 to the condenser valve (Y1) until the temperature drops.

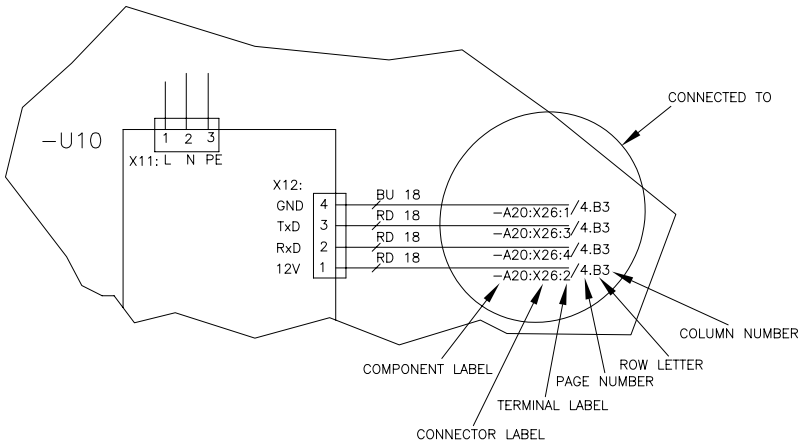
g When the timer counts to 0 or the core temp probe (B10) reaches the set amount the cycle ends and the steam generator reverts to the standby temperature of 190-degree F.

PARTS LIST

LABEL	DESCRIPTION	PART NO.	LOCATION
–A10	CONTROL BOARD (SM 5010)	C5019100	3
–A11	OPERATION BOARD (BM 5010)	C5019101	3
–A12	PICTO BOARD (OPTION)	C5019105	3.B1
–A13	I.D. MODULE	C5019102	3.B8
–A20	GAS BOARD (GM5010)	C5019103	4
–B1	WATER LEVEL PROBE	C5019003	3.A6
–B3	CONDENSOR PROBE	C5016006	3.B4
–B4	STEAM GEN PROBE	C5016006	3.B3
–B5	BYPASS PROBE	C5016006	3.B4
–B6	OVEN PROBE	C5016006	3.B4
–B7.1	OVEN HI–TEMP THERMOSTAT	C5001041	5.B4
–B7.2	GEN. HI–TEMP THERMOSTAT	1089952	6.B4
–B8	GEN. HI–TEMP PROBE	C5016008	3.B3
–B10	CORE TEMP. PROBE (KTM CTC)	C5013000	3.B4
–F1.1	FUSE, 2A	300416	2.B3
–F2.1	FUSE, 1A	300418	3.E3
–F10	FUSE, 15A	KE52936–9	2.B6
–G1	POWER SUPPLY, 12VDC	300350	2.C3
–H5.1	OVEN LAMP	C5005043	3.E3
–M1	MOTOR, CONVECTION	C50180211	2.E5
–M3.1	COOLIING FAN	C5018023	3.E1
–M4	PUMP, GEN.	300506	3.E6
–N20	BURNER ASSY, HOT AIR	–	5.D3
	VALVE, GAS, 120VAC	C6016009	
	CONTROL, BURNER, 120VAC	C6016023	
–N21	BURNER ASSY, GEN.	–	6.D3
	VALVE, GAS, 120VAC	C6016009	
	CONTROL, BURNER, 120VAC	C6016023	
–P1,P2	FLAME SENSOR	C4018000	5.E3,6.E3
–R20	IGNITOR, CONV.	C4018002	5.E4
–R21	IGNITOR, GEN.	C4018002	6.E3
–S1	SWITCH, CONTROL POWER	19993	2.A1
–S2	PRESSURE SWITCH	C5009055	3.A5
–S7	DOOR SWITCH	C5003075	3.A6
–T1	TRANSFORMER, 120V/24V	300419	5.C2
–T2	TRANSFORMER, 120V/24V	300419	6.C2
–U10	AC DRIVE	300412	2.B6
–U20	POWER BURNER ASSY, HOT AIR	–	5.D6
	FAN, BURNER, 120VAC	C5018006	
–U21	POWER BURNER ASSY, GEN.	–	6.D6
	FAN, BURNER, 120VAC	C5018006	

LABEL	DESCRIPTION	PART NO.	LOCATION
–W1	CABLE, 9 PIN COM.	C5009304	3.C3
–Y1	VALVE, CONDENSER, 120VAC	300455	3.E4
	NOISE FILTER (RC)	300407	3.E4
–Y10	VALVE ASSY, 2 WAY, 120VAC	300456	3.E
	–Y2 VALVE, DEHUMID.	–	3.E
	–Y3 VALVE, GEN. FILL	–	3.E
	NOISE FILTER (RC)	–	3.E
	VALVE ASSY, 3 WAY, 120VAC(CLEANING OPTION)	300363	3
	–Y2 VALVE, DEHUMID.	–	3
	–Y3 VALVE, GEN. FILL	–	3
	–Y21 VALVE, CLEAN/RINSE	–	3
	NOISE FILTER (RC)	300407	3
–Y20	PUMP, RINSING AGENT, 120VAC(CLEANING OPTION)	300352	3.E7
–Y22	PUMP, CLEANING AGENT, 120VAC(CLEANING OPTION)	300352	3.E8
–Y23	PUMP, CLEANING AGENT, 120VAC(CLEANING OPTION)	300352	3.E8
–Z1	LINE FILTER	300413	2.B1

CONNECTION NUMBERING EXAMPLE



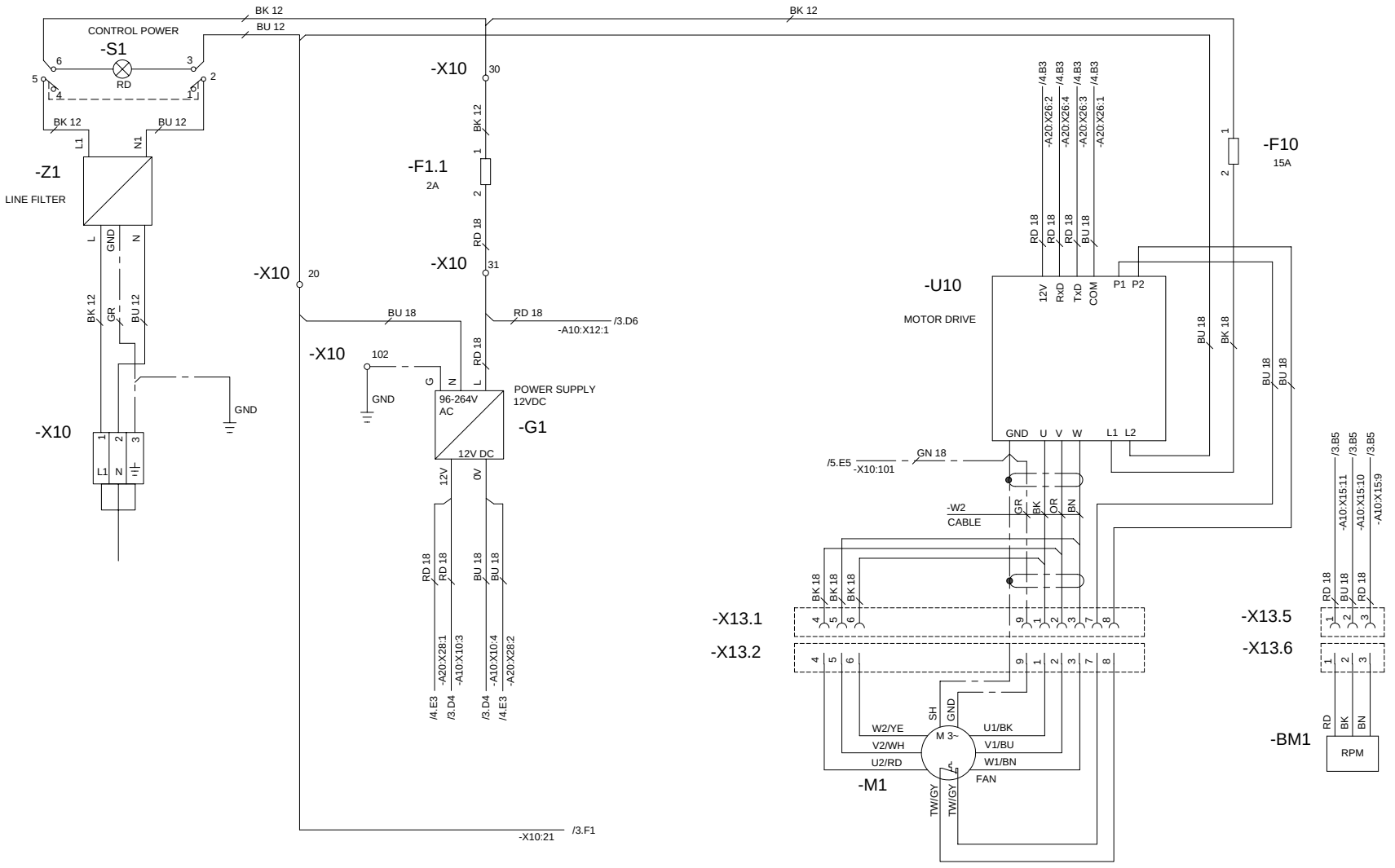
CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574

TITLE: WIRING DIAGRAM OGB 6.20/10.10

VOLTAGE: 120VAC
WATTAGE: 10.25W
CURRENT: 11.7A

DRAWN BY: DRL
DATE: 7-25-05
DRAWING NO.: 300493
SIZE: B
SHEET 1 OF 9
REV: A

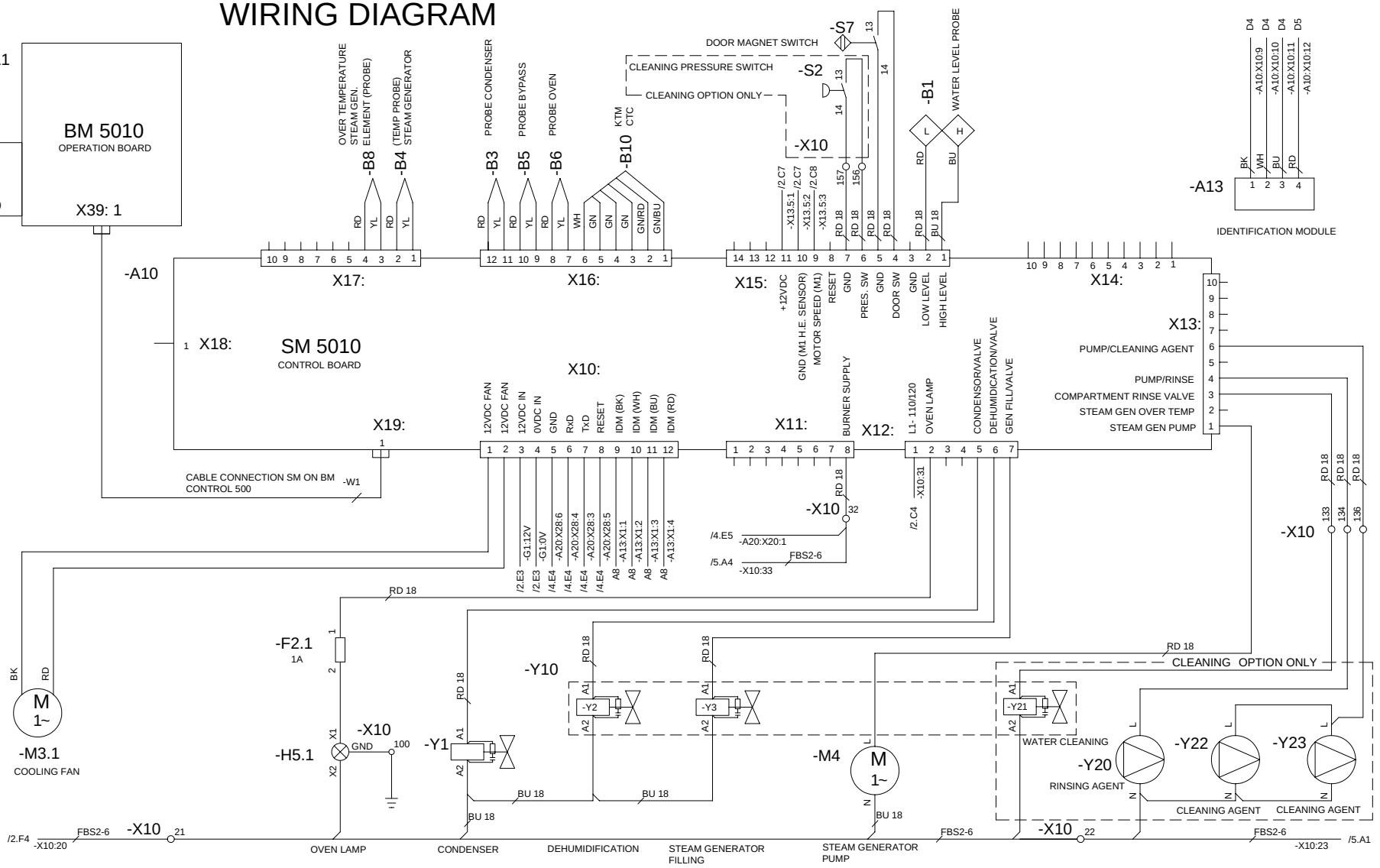
WIRING DIAGRAM



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

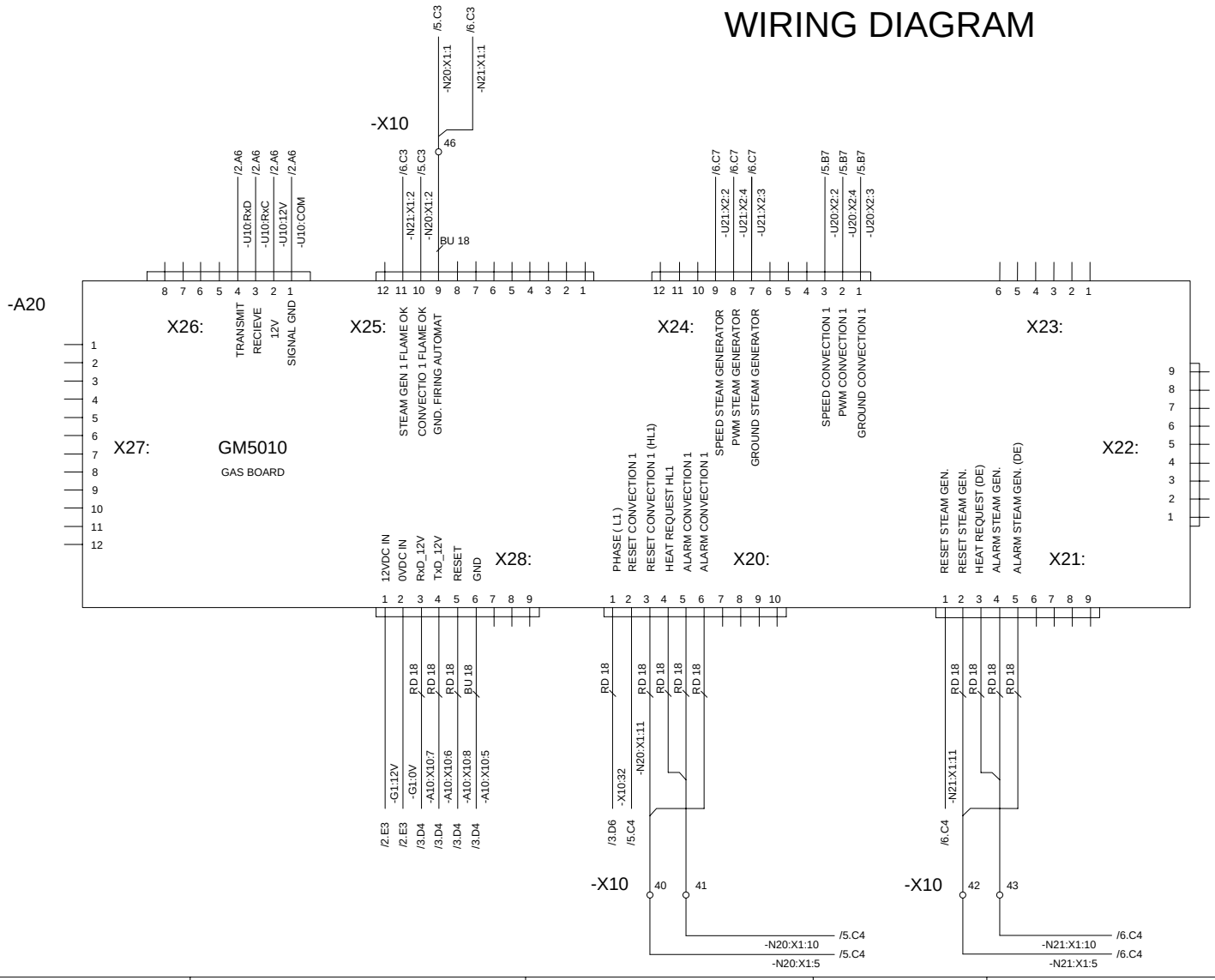
TITLE: WIRING DIAGRAM OGB 6.20/10.10	VOLTAGE: 120VAC WATTAGE: 10.25W CURRENT: 11.7A	DRAWN BY: DRL	DRAWING NO.: 300493		REV: A
		DATE: 7-25-05	SIZE: B	SHEET 2 OF 9	

WIRING DIAGRAM



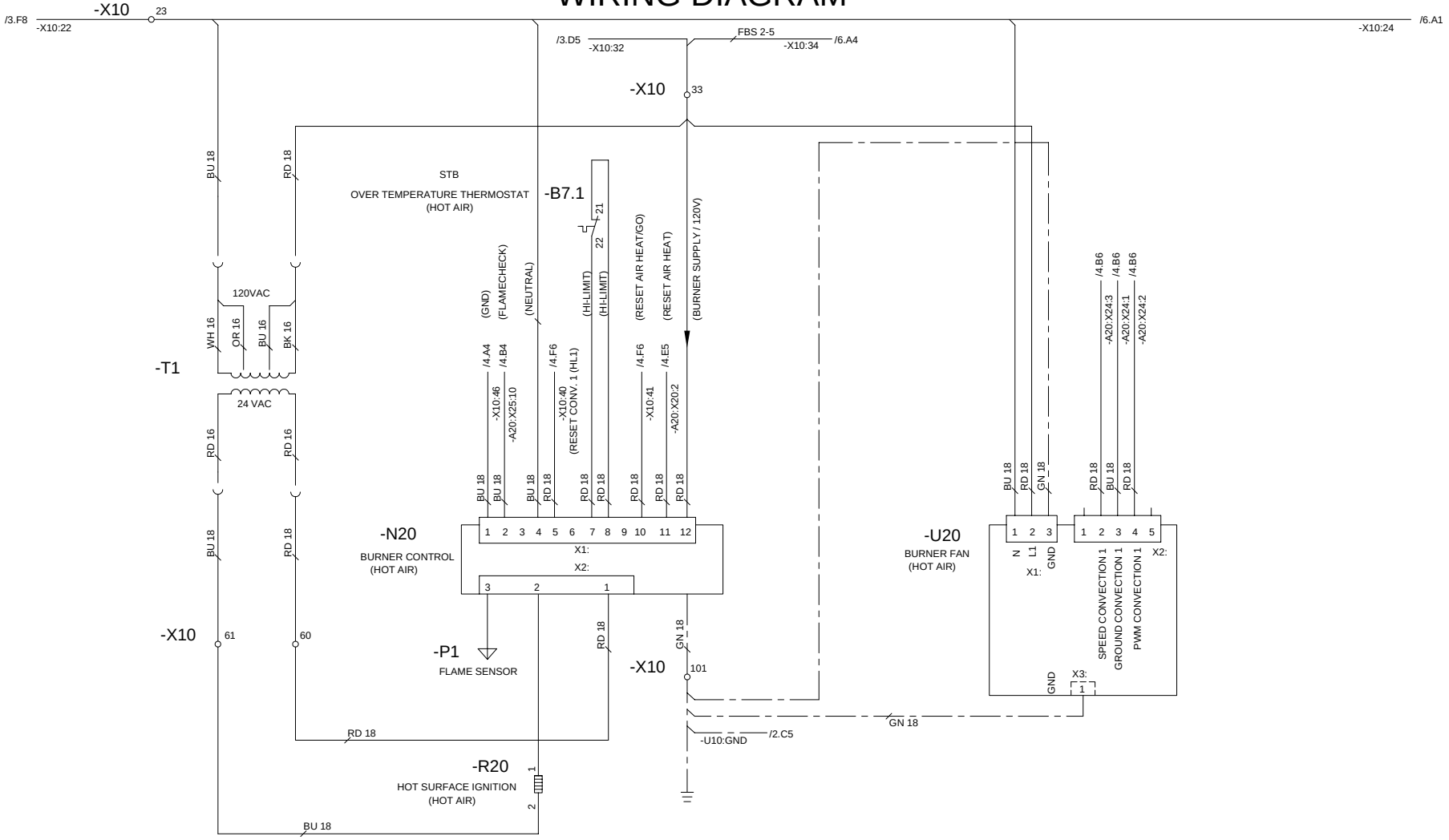
THIS DESIGN DESCRIBES A PROPRIETARY ITEM AND IS THE PROPERTY OF CLEVELAND RANGE. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF CLEVELAND RANGE.	TITLE	VOLTAGE: 120VAC	DRAWN BY	DRAWING NO.	REV
CLEVELAND RANGE, LLC	WIRING DIAGRAM	WATTAGE: 10.25W	DRL	300493	A
1333 East 179th St., Cleveland, Ohio 44110-2574	OGB 6.20/10.10	CURRENT: 11.7A	DATE 7-25-05	SIZE B	SHEET 3 OF 9

WIRING DIAGRAM



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.	TITLE		DRAWN BY	DRAWING NO.	REV
CLEVELAND RANGE, LLC 1333 East 179th St., Cleveland, Ohio 44110-2574	WIRING DIAGRAM OGB 6.20/10.10	VOLTAGE: 120VAC WATTAGE: 10.25W CURRENT: 11.7A	DRL DATE 7-25-05	300493 SIZE B	A SHEET 4 OF 9

WIRING DIAGRAM



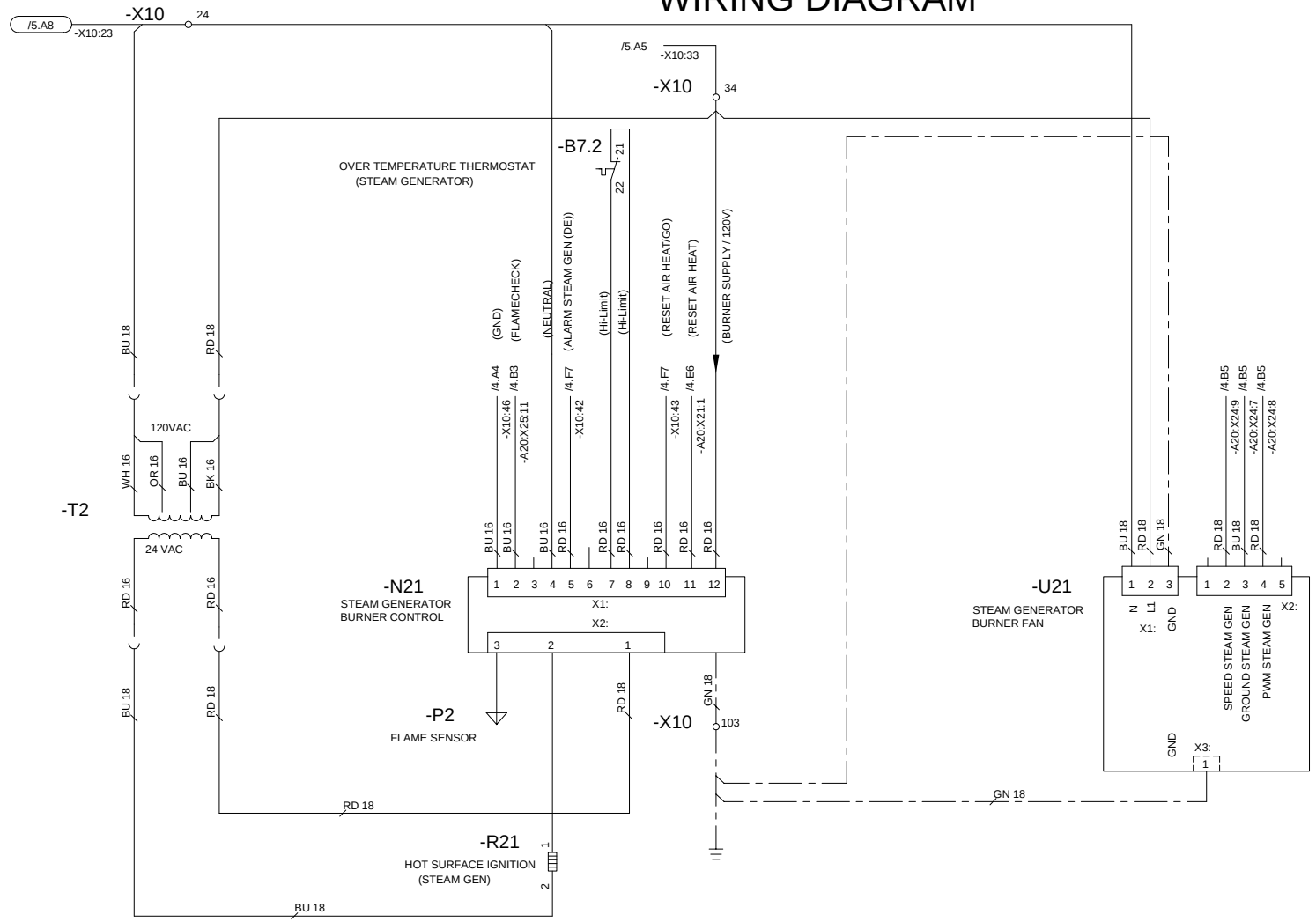
CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574

TITLE
WIRING DIAGRAM
OGB 6.20/10.10

VOLTAGE: 120VAC
WATTAGE: 10.25W
CURRENT: 11.7A

DRAWN BY: DRL
DATE: 7-25-05
DRAWING NO.: 300493
SIZE: B
SHEET 5 OF 9
REV: A

WIRING DIAGRAM



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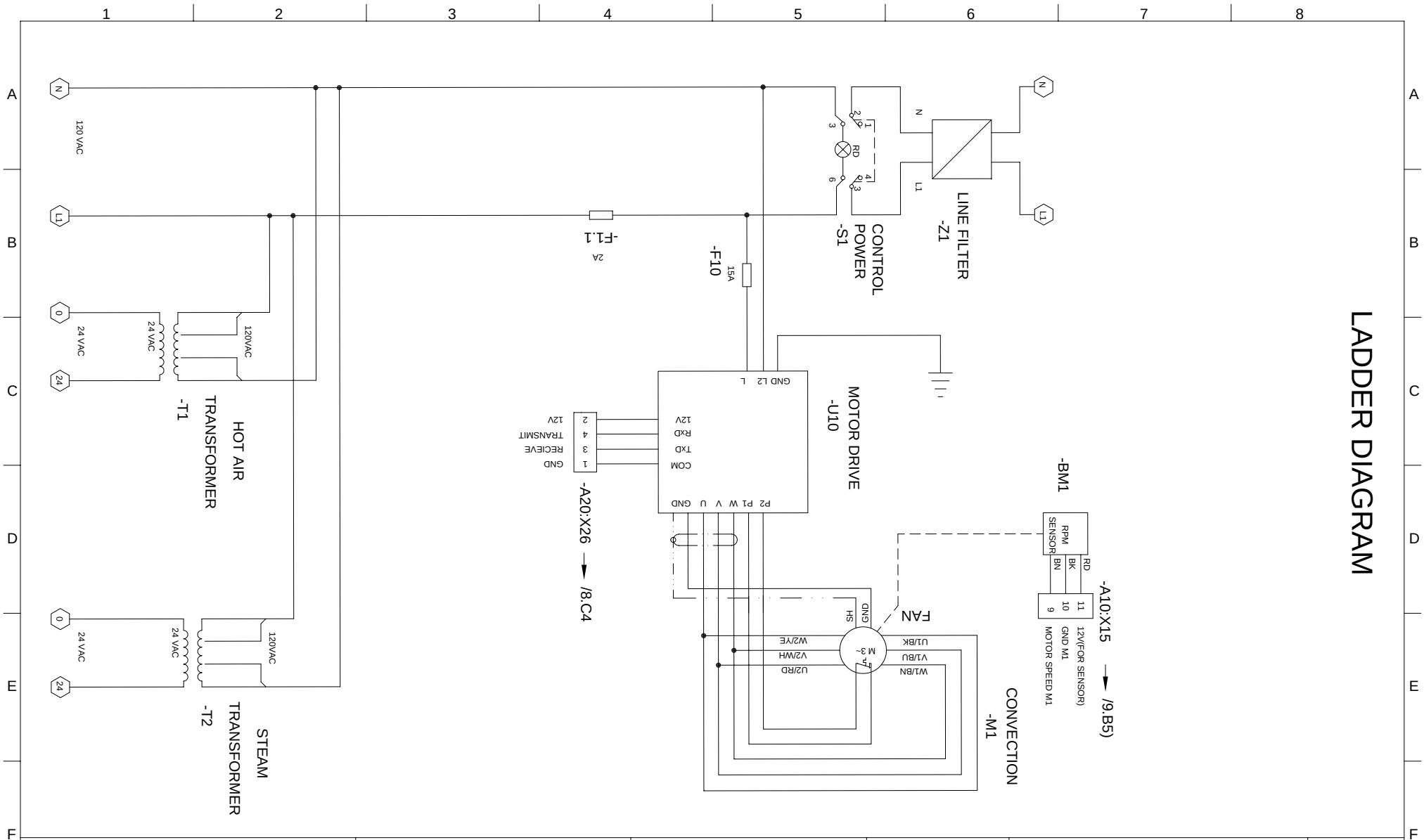
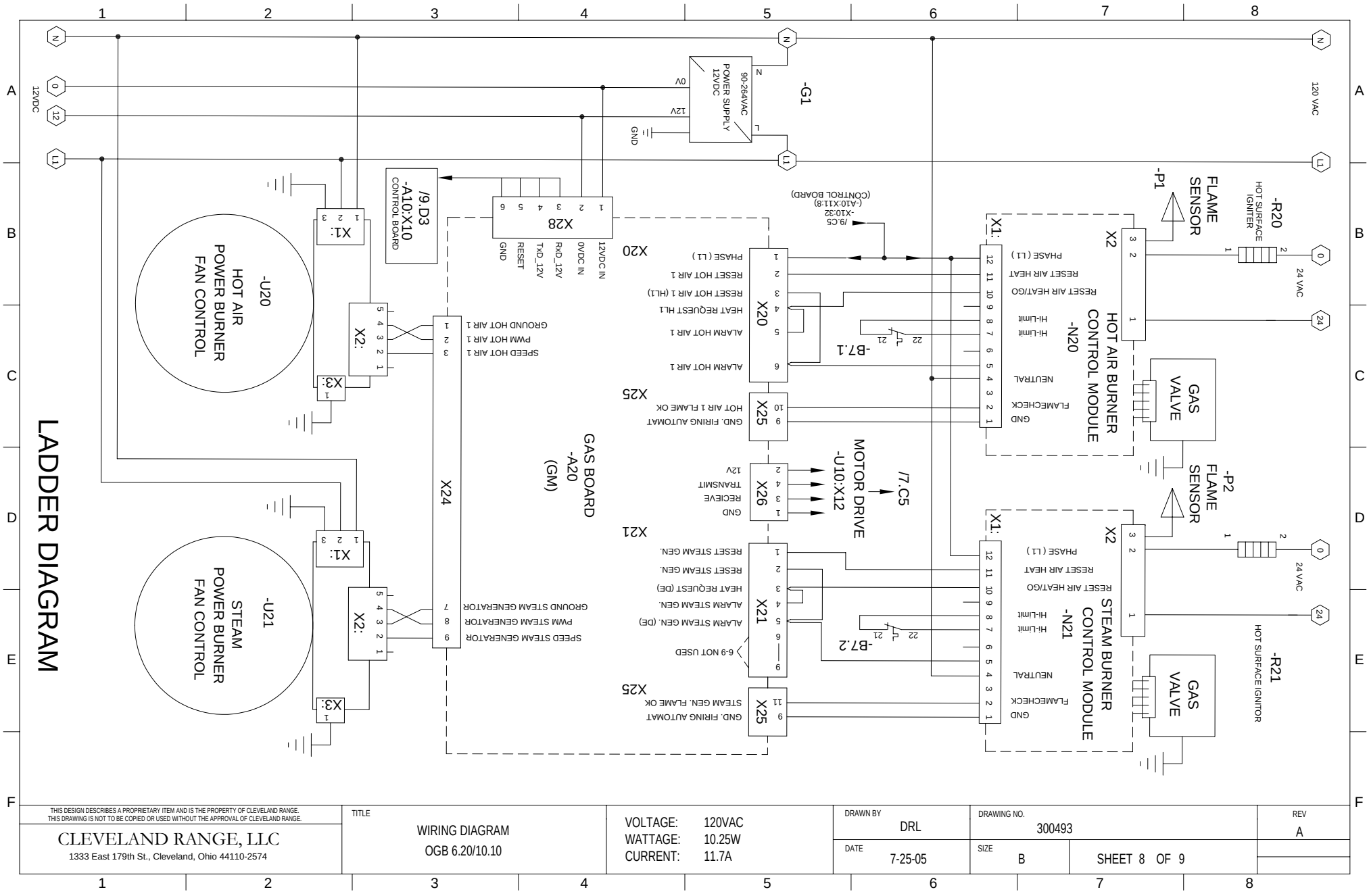
CLEVELAND RANGE, LLC	WIRING DIAGRAM	WATTAGE: 10.25W	DRL	300493	A
1333 East 179th St., Cleveland, Ohio 44110-2574	OGB 6.20/10.10	CURRENT: 11.7A	DATE 7-25-05	SIZE B	SHEET 6 OF 9



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

TITLE	WIRING DIAGRAM OGB 6.20/10.10
VOLTAGE:	120VAC
WATTAGE:	10.25W
CURRENT:	11.7A
DRAWN BY	DRL
DATE	7-25-05
DRAWING NO.	300493
SIZE	B
SHEET	7 OF 9
REV	A



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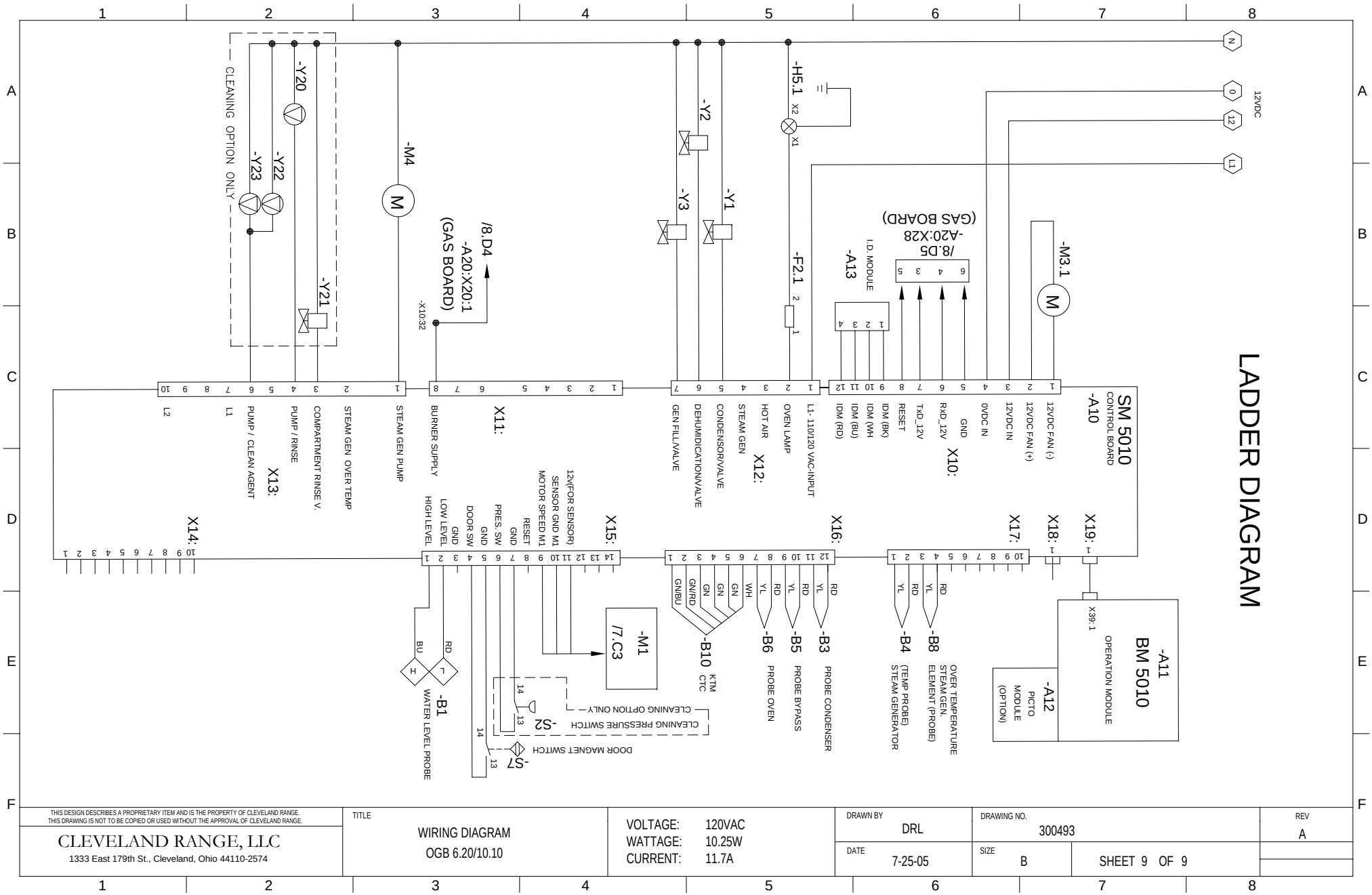
			DATE 7-25-05	SIZE B	SHEET 8 OF 9



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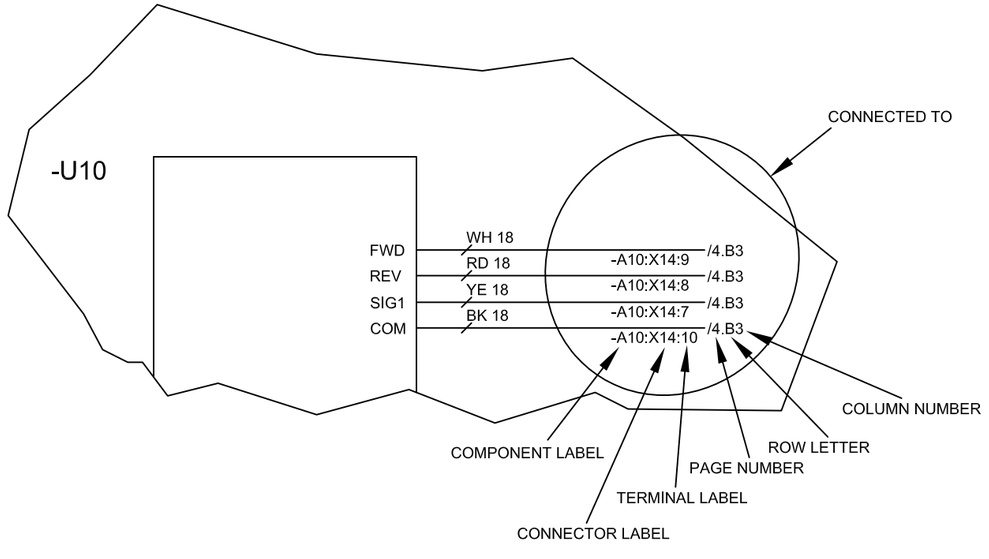
PARTS LIST

LABEL	DESCRIPTION	PART NO.	LOCATION
-A10	CONTROL BOARD (SM 5010)	C5019100	3
-A11	OPERATION BOARD (BM 5010)	C5019101	3
-A12	PICTO BOARD (OPTION)	C5019105	3.B1
-A13	I.D. MODULE	C5019102	3.B8
-A20	GAS BOARD (GM5010)	C5019103	4
-B1	WATER LEVEL PROBE	C5019003	3.A6
-B3	CONDENSOR PROBE	C5016006	3.B4
-B4	STEAM GEN PROBE	C5016006	3.B3
-B5	BYPASS PROBE	C5016006	3.B4
-B6	OVEN PROBE	C5016006	3.B4
-B7.1	OVEN HI-TEMP THERMOSTAT	C5001041	5.B4
-B7.2	GEN. HI-TEMP THERMOSTAT	1089952	6.B4
-B8	GEN. HI-TEMP PROBE	C5016008	3.B3
-B10	CORE TEMP. PROBE (KTM CTC)	C5013020	3.B4
-F1	FUSE, 3A	300752	2.B3
-F2	FUSE, 1A	300418	3.E3
-F10	FUSE, 15A	300751	2.B6
-FS1,FS2	FLAME SENSOR	C4018000	5.E3,6.E3
-G1	POWER SUPPLY, 12VDC	300350	2.C3
-H5	OVEN LAMP	C5005043	3.E3
-M1	MOTOR, CONVECTION	C5018021	2.E5
-M3	COOLIING FAN	C5018023	3.E1
-M4	PUMP, GEN.	300753	3.E6
-N20	BURNER ASSY, HOT AIR	-	5.D3
	VALVE, GAS, 120VAC	C6016009	
	CONTROL, BURNER, 120VAC	C6016023	
-N21	BURNER ASSY, GEN.	-	6.D3
	VALVE, GAS, 120VAC	C6016009	
	CONTROL, BURNER, 120VAC	C6016023	
-R20	IGNITOR, CONV.	C4018002	5.E4
-R21	IGNITOR, GEN.	C4018002	6.E3
-S1	SWITCH, CONTROL POWER	19993	2.A1
-S2	PRESSURE SWITCH	C5013052	3.A5
-S7	DOOR SWITCH	C5003075	3.A6
-T1	TRANSFORMER, 120V/24V	300419	5.C2
-T2	TRANSFORMER, 120V/24V	300419	6.C2
-U10	AC DRIVE	300925	2.B6
-U20	POWER BURNER ASSY, HOT AIR	-	5.D6
	FAN, BURNER, 120VAC	C5018006	
-U21	POWER BURNER ASSY, GEN.	-	6.D6
	FAN, BURNER, 120VAC	C5018006	

LABEL	DESCRIPTION	PART NO.	LOCATION
-W1	CABLE, 9 PIN COM.	300533	3.C3
-Y1	VALVE, CONDENSER, 120VAC (W/O CLEANING OPTION)	300455	3.E4
	NOISE FILTER (RC)	300407	3.E4
-Y10	VALVE ASSY, 2 WAY, 120VAC	300456	3.E4
	-Y2 VALVE, DEHUMID.	-	3.E4
	-Y3 VALVE, GEN. FILL	-	3.E5
	NOISE FILTER (RC)	-	3.E4, 3.E5
-Y11	VALVE ASSY, 2 WAY, 120VAC(CLEANING OPTION)	300456	3.E6
	-Y1 VALVE, CONDENSER 120VAC	-	3.E3
	-Y21 VALVE, CLEAN/RINSE	-	3.E6
	NOISE FILTER (RC)	300407	3E4, 3.E6
-Y20	PUMP, RINSING AGENT, 120VAC(CLEANING OPTION)	300352	3.E7
-Y22	PUMP, CLEANING AGENT, 120VAC(CLEANING OPTION)	300352	3.E8
-Y23	PUMP, CLEANING AGENT, 120VAC(CLEANING OPTION)	300352	3.E8
-Z1	LINE FILTER	300413	2.B1

After 6/2012

CONNECTION NUMBERING EXAMPLE



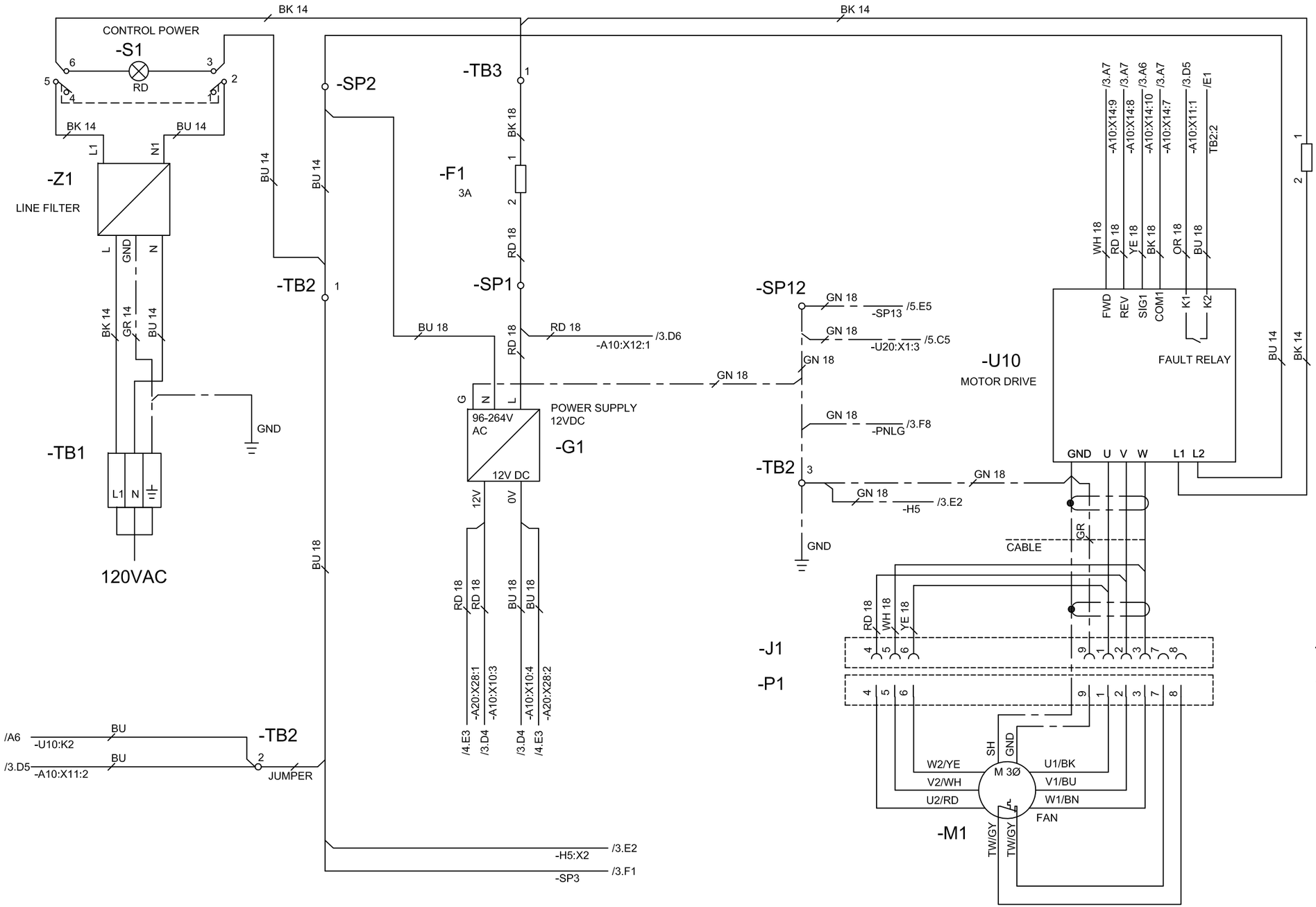
CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574

TITLE
WIRING DIAGRAM
OGB 6.10/6.20/10.10

VOLTAGE: 120VAC
WATTAGE: 588W
CURRENT: 4.9A

DRAWN BY: DRL
DATE: 6-6-12
DRAWING NO.: 300937
SIZE: B
SHEET 1 OF 9
REV: A

WIRING DIAGRAM



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

TITLE	WIRING DIAGRAM OGB 6.10/6.20/10.10
VOLTAGE:	120VAC
WATTAGE:	588W
CURRENT:	4.9A
DRAWN BY	DRL
DRAWING NO.	300937
REV	A
DATE	6-6-12
SIZE	B
	SHEET 2 OF 9

WIRING DIAGRAM

-A11
BM 5010
OPERATION BOARD
X39: 1
PICTO MODULE (OPTION)
-A12

-A10
SM 5010
CONTROL BOARD
X18:
X17:
X16:
X15:
X14:
X13:
X19:
X10:
X11:
X12:

CABLE CONNECTION SM ON BM CONTROL 500 -W1

OVER TEMPERATURE STEAM GEN. ELEMENT (PROBE) -B8
(TEMP PROBE) STEAM GENERATOR -B4
PROBE CONDENSER -B3
PROBE BYPASS -B5
PROBE OVEN -B6
KTM CTC -B10
CLEANING PRESSURE SWITCH
CLEANING OPTION ONLY
-S2
DOOR MAGNET SWITCH -S7
-B1 WATER LEVEL PROBE
-A13 IDENTIFICATION MODULE

-F2 1A
-H5
-M3 COOLING FAN
-Y1 OVEN LAMP
-Y2 CONDENSER
-Y3 DEHUMIDIFICATION
-Y10 STEAM GENERATOR FILLING
-M4 STEAM GENERATOR PUMP
-Y11 (INCLUDES -Y1 WITH CLEANING OPTION)
-Y21 WATER CLEANING
-Y20 RINSING AGENT
-Y22 CLEANING AGENT
-Y23 CLEANING AGENT
-SP1 -SP2 -SP3 -SP4 -SP5 -SP8 -SP9
-PNLG

PUMP/CLEANING AGENT
PUMP/RINSE
COMPARTMENT RINSE VALVE
STEAM GEN PUMP

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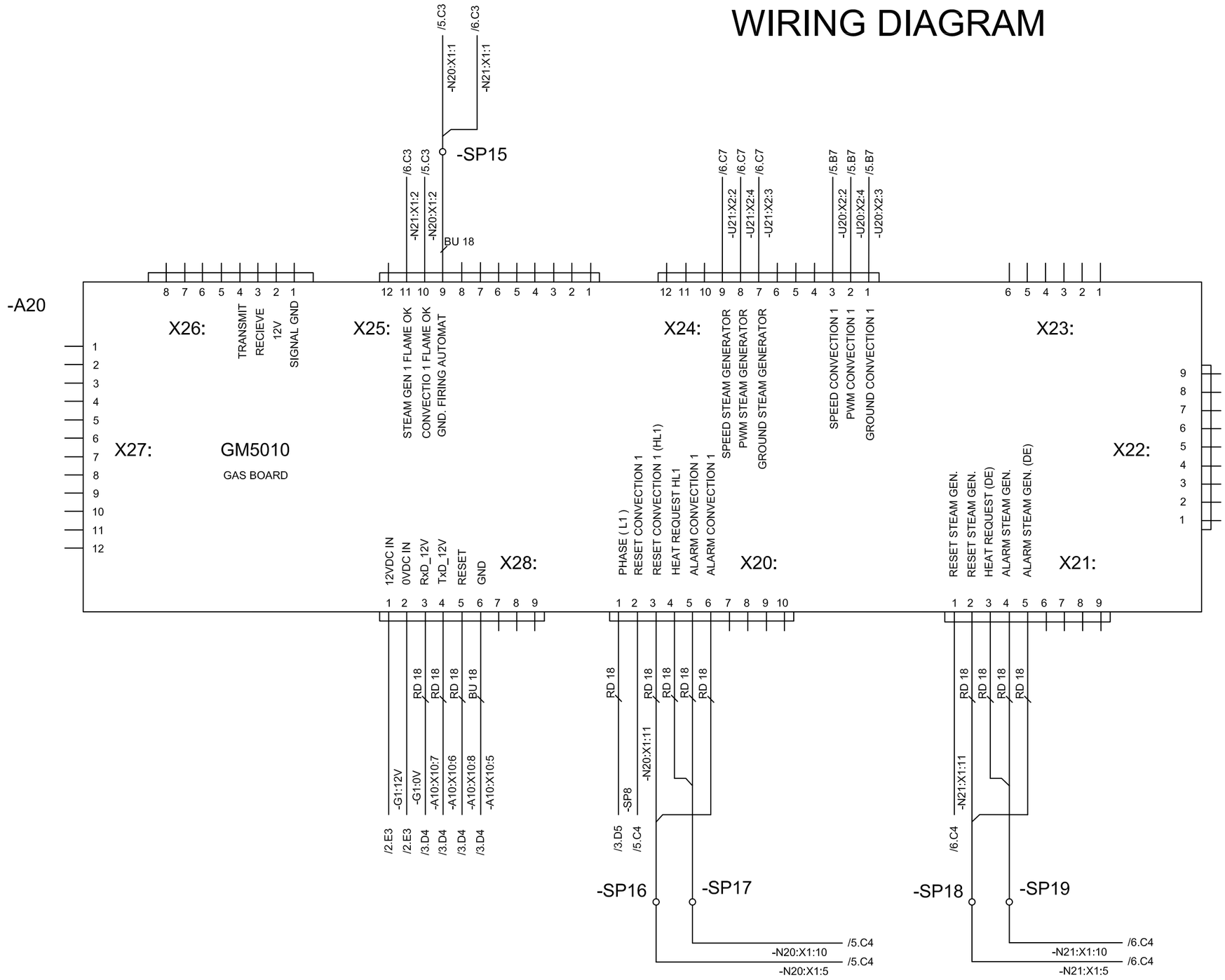
TITLE	VOLTAGE: 120VAC WATTAGE: 588W CURRENT: 4.9A	DRAWN BY	DRAWING NO.	REV
WIRING DIAGRAM OGB 6.10/6.20/10.10		DRL	300937	A
		DATE 6-6-12	SIZE B	SHEET 3 OF 9

WIRING DIAGRAM



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

TITLE	WIRING DIAGRAM OGB 6.10/6.20/10.10
VOLTAGE:	120VAC
WATTAGE:	588W
CURRENT:	4.9A
DRAWN BY	DRL
DRAWING NO.	300937
REV	A
DATE	6-6-12
SIZE	B
SHEET	4 OF 9

WIRING DIAGRAM

/3.F1 -SP3 — -SP5 — BU 18 — -SP6 — -SP7 /6.A1

/3.D5 -SP8 — RD 18 — -SP11 /6.A4

-SP9

RD 18

-SP10

BU 18

RD 18

STB

OVER TEMPERATURE THERMOSTAT
(HOT AIR)

-B7.1

21

22

(HI-LIMIT)

(HI-LIMIT)

(RESET AIR HEAT/GO)

(RESET AIR HEAT)

(BURNER SUPPLY / 120V)

(GND)

(FLAMECHECK)

(NEUTRAL)

120VAC

WH 16 OR 16 BU 16 BK 16

-T1

24 VAC

RD 16 RD 16

/4.A4 -SP15 -A20:X25:10

/4.F6 -SP16 (RESET CONV. 1 (HL1))

/4.F6 -SP17 /4.E5 -A20:X20:2

BU 16 BU 16 BU 16 RD 16 RD 16 RD 16 RD 16 RD 16 RD 16

-N20

BURNER CONTROL
(HOT AIR)

X1: 1 2 3 4 5 6 7 8 9 10 11 12

X2: 3 2 1

BU 18 RD 18 RD 18 GN 18

-FS1

FLAME SENSOR

-SP13

/2.C5 -SP12

/2.B5 -SP12

GN 18

/6.E5 -SP14

RD 18

-R20

HOT SURFACE IGNITION
(HOT AIR)

1 2

BU 18

-U20

BURNER FAN
(HOT AIR)

X1: 1 2 3 — N L1 GND

X2: 1 2 3 4 5 — SPEED CONVECTION 1, GROUND CONVECTION 1, PWM CONVECTION 1

X3: GND 1

/4.B6 -A20:X24:3

/4.B6 -A20:X24:1

/4.B6 -A20:X24:2

BU 18 RD 18 GN 18 RD 18 BU 18 RD 18

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

TITLE	WIRING DIAGRAM OGB 6.10/6.20/10.10
VOLTAGE:	120VAC
WATTAGE:	588W
CURRENT:	4.9A
DRAWN BY	DRL
DRAWING NO.	300937
REV	A
DATE	6-6-12
SIZE	B
	SHEET 5 OF 9

WIRING DIAGRAM

/5.A8
-SP6
-SP7
BU 18
/5.A5
-SP9
-SP11
-B7.2
OVER TEMPERATURE THERMOSTAT
(STEAM GENERATOR)
21
22
(BURNER SUPPLY / 120V)
(RESET AIR HEAT)
(RESET AIR HEAT/GO)
(ALARM STEAM GEN (DE))
(NEUTRAL)
(Hi-Limit)
(Hi-Limit)
(FLAMECHECK)
(GND)
BU 18
RD 18
120VAC
WH 16
OR 16
BU 16
BK 16
-T2
24 VAC
RD 16
RD 16
BU 18
RD 18
/4.A4
/4.B3
-SP15
-A20:X25:11
/4.F7
-SP18
/4.F7
-SP19
/4.E6
-A20:X21:1
BU 16
BU 16
BU 16
RD 16
RD 16
RD 16
RD 16
RD 16
RD 16
-N21
STEAM GENERATOR
BURNER CONTROL
X1:
X2:
1 2 3 4 5 6 7 8 9 10 11 12
3 2 1
-FS2
FLAME SENSOR
RD 18
GN 18
-SP14
RD 18
GN 18
-SP13
/5.E5
-R21
HOT SURFACE IGNITION
(STEAM GEN)
1
2
BU 18
-U21
STEAM GENERATOR
BURNER FAN
BU 18
RD 18
GN 18
1 2 3
N L1
X1:
GND
/4.B5
/4.B5
/4.B5
-A20:X24:9
-A20:X24:7
-A20:X24:8
RD 18
BU 18
RD 18
1 2 3 4 5
X2:
SPEED STEAM GEN
GROUND STEAM GEN
PWM STEAM GEN
GND
X3:
1
GN 18

CLEVELAND RANGE, LLC
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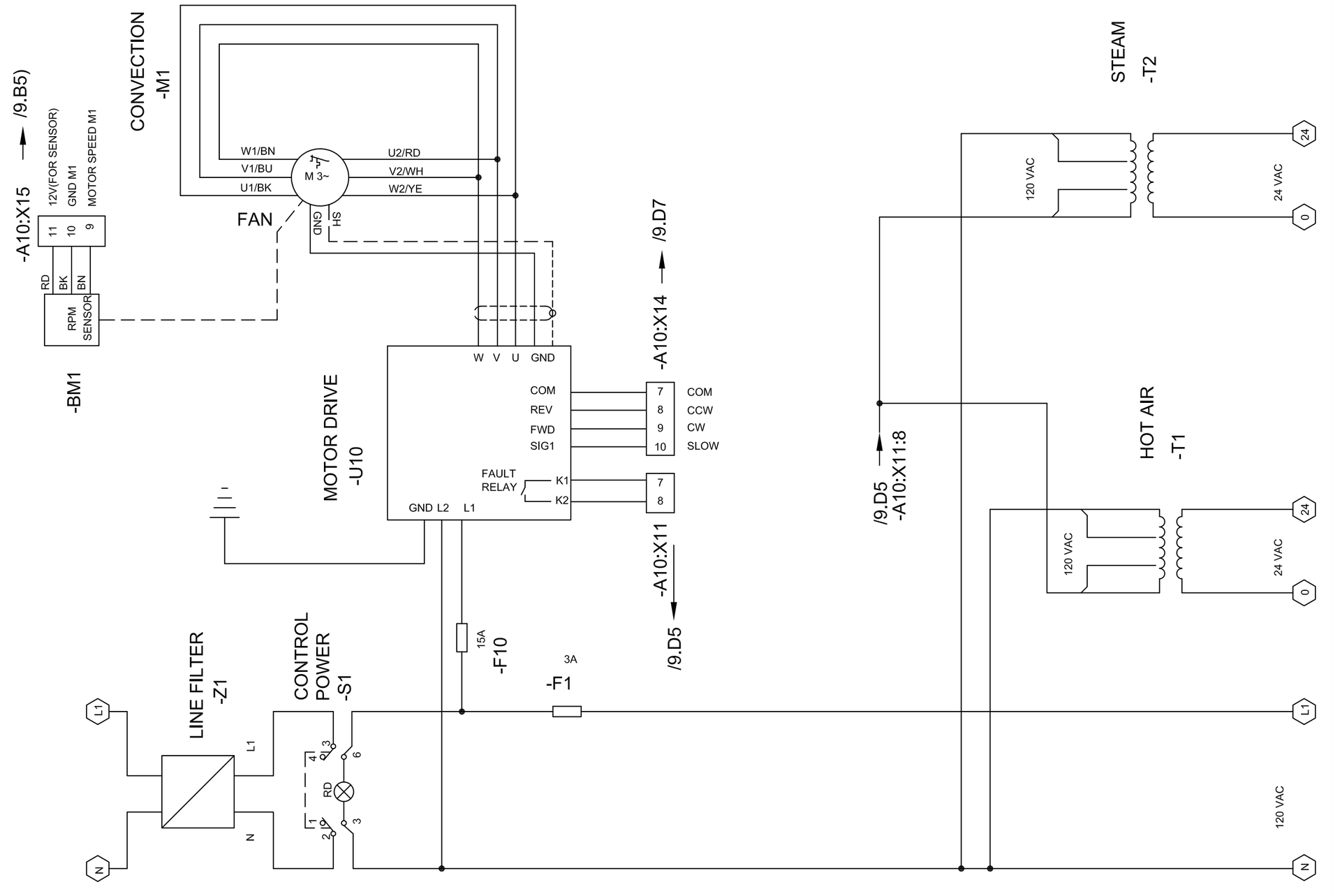
TITLE	WIRING DIAGRAM OGB 6.10/6.20/10.10
VOLTAGE:	120VAC
WATTAGE:	588W
CURRENT:	4.9A
DRAWN BY	DRL
DATE	6-6-12
DRAWING NO.	300937
SIZE	B
SHEET	6 OF 9
REV	A

LADDER DIAGRAM



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

TITLE	WIRING DIAGRAM OGB 6.10/6.20/10.10
VOLTAGE:	120VAC
WATTAGE:	588W
CURRENT:	4.9A
DRAWN BY	DRL
DATE	6-6-12
DRAWING NO.	300937
SIZE	B
SHEET	7 OF 9
REV	A

LADDER DIAGRAM

GAS VALVE

STEAM BURNER CONTROL MODULE -N21

GND
FLAMECHECK
NEUTRAL
Hi-Limit
Hi-Limit
RESET AIR HEAT/GO
RESET AIR HEAT
PHASE (L1)

X1: X2

24 VAC

-R21 HOT SURFACE IGNITOR

-FS2 FLAME SENSOR

-B7.2 (22, 21)

X25
9 GND. FIRING AUTOMAT
11 STEAM GEN. FLAME OK

X21
9 6-9 NOT USED
6
5 ALARM STEAM GEN. (DE)
4 ALARM STEAM GEN.
3 HEAT REQUEST (DE)
2 RESET STEAM GEN.
1 RESET STEAM GEN.

X26
1 GND
3 RECIEVE
4 TRANSMIT
2 12V

GAS VALVE

HOT AIR BURNER CONTROL MODULE -N20

GND
FLAMECHECK
NEUTRAL
Hi-Limit
Hi-Limit
RESET AIR HEAT/GO
RESET AIR HEAT
PHASE (L1)

X1: X2

24 VAC

-R20 HOT SURFACE IGNITOR

-FS1 FLAME SENSOR

-B7.1 (22, 21)

X25
9 GND. FIRING AUTOMAT
10 HOT AIR 1 FLAME OK

X20
6 ALARM HOT AIR 1
5 ALARM HOT AIR 1
4 HEAT REQUEST HL1
3 RESET HOT AIR 1 (HL1)
2 RESET HOT AIR 1
1 PHASE (L1)

/9.C5 -SP8 (-A10:X11:8) (CONTROL BOARD)

GAS BOARD -A20 (GM)

X24
SPEED STEAM GENERATOR 9
PWM STEAM GENERATOR 8
GROUND STEAM GENERATOR 7
SPEED HOT AIR 1 3
PWM HOT AIR 1 2
GROUND HOT AIR 1 1

X20 12VDC IN, 0VDC IN, RxD_12V, TxD_12V, RESET, GND

X28 1 2 3 4 5 6

/9.D3 -A10:X10 CONTROL BOARD

X3: X2: X1:

-U21 STEAM POWER BURNER FAN CONTROL

-U20 HOT AIR POWER BURNER FAN CONTROL

120 VAC

-G1 90-264VAC POWER SUPPLY 12VDC

L, N, GND, 12V, 0V

L1, N, 12, 0, 12VDC

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TITLE		DRAWN BY	DRAWING NO.	REV
WIRING DIAGRAM OGB 6.10/6.20/10.10	VOLTAGE: 120VAC WATTAGE: 588W CURRENT: 4.9A	DRL	300937	A
		DATE 6-6-12	SIZE B	SHEET 8 OF 9

LADDER DIAGRAM

-A11 BM 5010 OPERATION MODULE — X39: 1

-A12 PICTO MODULE (OPTION)

-A10 SM 5010 CONTROL BOARD

X19: 1 — X18: 1

X17: 10 9 8 7 6 5 4 3 2 1

-B8 OVER TEMPERATURE STEAM GEN. ELEMENT (PROBE): RD, YE

-B4 (TEMP PROBE) STEAM GENERATOR: RD, YE

X16: 12 11 10 9 8 7 6 5 4 3 2 1 — - + - + - + - + - + - + GND

-B3 PROBE CONDENSER: RD, YE

-B5 PROBE BYPASS: RD, YE

-B6 PROBE OVEN: RD, YE

-B10 KTM CTC: WH, GN, YE, RD, BU

-M1 /7.C3

X15: 14 13 12 11 10 9 8 7 6 5 4 3 2 1

-S7 DOOR MAGNET SWITCH — 13, 14

-S2 CLEANING PRESSURE SWITCH — CLEANING OPTION ONLY — 3, 1

-B1 WATER LEVEL PROBE — L, H — RD, BU

X15: RESET, GND, PRES. SW, GND, DOOR SW, GND, LOW LEVEL, HIGH LEVEL

X10: 12VDC FAN (-), 12VDC FAN (+), 12VDC IN, 0VDC IN, GND, RxD_12V, TxD_12V, RESET, IDM (BK), IDM (WH), IDM (BU), IDM (RD)

X12: L1- 110/120 VAC-INPUT, OVEN LAMP, HOT AIR, STEAM GEN, CONDENSOR VALVE, DEHUMIDIFICATION VALVE, GEN FILL VALVE

X11: MOTOR OVER TEMP, MOTOR OVER TEMP, 12v(FOR SENSOR), SENSOR GND M1, MOTOR SPEED M1

X13: BURNER SUPPLY (120VAC OUT), STEAM GEN PUMP, COMPARTMENT RINSE V., PUMP / RINSE, PUMP / CLEAN AGENT

X14: MOTOR / COM, MOTOR / CCW, MOTOR / CW, MOTOR / SLOW

-M3 — -A13 I.D. MODULE — /8.D5 -A20:X28 (GAS BOARD)

-F2 — -H5 — X1, X2

-Y1, -Y2, -Y3

/7.D5 -U10:K1 & K2 DRIVE FULT RELAY

/7.C6 -T1,-T2 XFORMER

/8.D4 -A20:X20:1 (GAS BOARD)

-SP8

-M4

-Y21, -Y20, -Y22, -Y23 — CLEANING OPTION ONLY

MOTOR DRIVE -U10:X12 — /7.C5

12VDC — L1, 12, 0, N

CLEVELAND RANGE, LLC
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TITLE	WIRING DIAGRAM OGB 6.10/6.20/10.10
VOLTAGE:	120VAC
WATTAGE:	588W
CURRENT:	4.9A
DRAWN BY	DRL
DRAWING NO.	300937
REV	A
DATE	6-6-12
SIZE	B
SHEET	9 OF 9

CLEVELAND RANGE OGS 6.20/10.10
SEQUENCE OF OPERATIONS

When using these instructions refer to the OGS 6.20/10.10 wiring schematic.

1 When 120 VAC is applied to the combi, it is sent through the line filter (Z1) to the Power Control Switch (S1).

2 When the Power Control Switch (S1) is closed
   a The red light in the switch is energized.
   b 120 VAC is sent through the 7 amp fuse (F10) to terminal 1 of connector X11 on the Motor Drive (U10)
   c 120vac is sent through the 2 amp fuse (F1.1) to
      - The 12 VDC Power Supply (G1)
         ◊ 12 VDC is sent to terminals 1 and 2 of connector X20 on the Gas Board (A20)
         ◊ 12 VDC is sent to terminal 3 and 4 of connector X10 on the Control Board (A10)
      - To terminal 2 of connector X1 on the Hot Air Power Burner and Fan Control (U20)
      - To terminal 1 of connector X12 on the Control Board (A10)
   d With 120 VAC to the Control Board (A10) The Operation Board (A11) is energized
      - An alarm will sound for one second
      - All the LED's and the display will energize one at a time.
      - "STARTING" will be displayed for 3 seconds
      - "Please wait" will be displayed
      - The international model number will be displayed
      - The time and date will be displayed and this will continue until the on/off switch is depressed.

3 When the ON/OFF is depressed with the combi in the steam mode
   a The display will show the set temperature and set time.
   b 120vac is sent from pin 8 of connector X11 of the control board (A10) to
      - The primary of the Hot Air 24v Transformer (T1)
         ◊ 24 VAC is sent from the secondary of the transformer to the Hot air Burner Control (N20)
      - To terminal 12 of connector X1 on the Hot Air Burner Control (N20)
      - To terminal 2 of connector X1 on the Hot Air Power Burner and Fan Control (U20)

4 With the combi in the steam mode with time on the timer, the door closed and the start switch is depressed
   a The front display will include a lighted bar under the steam symbol
      - When the heat circuit is energized the heat symbol will be energized
      - The cooking mode symbol will be energized.
      - The time display will invert and begin to count down.

b The fan circuit is energized by the Control Board (A10) transmitting and receiving a signal from terminals 5,6, and 7 on connector X10 to connector X12 on the Motor Drive Board (U10).
- The motor Drive Board sends a signal through the thermal switch in the motor from Terminal 5 and receives on terminal 6
- If the thermal switch is not open the Motor Drive Board (U10) sends 240 VAC 3 phase to the motor.
- The motor reverses direction every 120 seconds with a 15 second coast.

c Hot air heat circuit is energized
- A signal is sent from terminal 8 of connector X15 on the Control Board (A10) to terminal 4 of connector X2 on the Hot Air Power Burner and Fan Control (U20) selecting the set speed of the combustion blower.
  - ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Hot Air Power Burner and Fan Control (U20) to terminal 2 of connector X15 on the Control Board (A10)
- A request for heat is sent from terminal 3 of connector X12 on the Control Board (A10) to terminal 10 on connector X1 on the Hot Air Control Module (N20)
  - ◊ 24 VAC is sent from terminal 2 of connector X2 on the Hot Air Control Module (N20) to the hot surface igniter (R20).
  - ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
  - ◊ The Hot Air Burner Control Module (N20) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 12 of connector X15 on the Control Board (A10)
- The heat circuit will remain energized until the cabinet set temperature is reached as sensed at probe B6.

d The steam circuit is energized
- 120 VAC is sent from terminal 4 of connector X12 on the Control Board (A10) to the coil of the Y3 solenoid. Y3 solenoid opens allowing water to the pressure regulator set at 17 PSI. From the pressure regulator the water is sent through the flow regulator to be thrown against the element until the bypass probe (B5) senses 183 degrees F.
  - ◊ **NOTE:** If the set temperature is above 212 degrees F the hot air circuit will be energized (after the by pass probe is satisfied) until the compartment setting is reached.

e When the condensate box is heated to 140 degrees F at the B3probe, 120 VAC is sent from terminal 5 of connector X12 to the condenser valve (Y1) until the temperature drops.

f When the timer counts to 0 or the core temp probe (B10) reaches the set amount the cycle ends and the steam generator reverts to the standby temperature of 190-degree F.

5 With the combi in the Hot Air mode with time on the timer, the door closed and the start switch is depressed

a The front display will include a lighted bar under the Hot Air symbol

- When the heat circuit is energized the heat symbol will be energized
- The cooking mode symbol will be energized.
- The time display will invert and begin to count down.

c The fan circuit is energized by the Control Board (A10) transmitting and receiving a signal from terminals 5,6, and 7 on connector X10 to connector X12 on the Motor Drive Board (U10).

- The motor Drive Board sends a signal through the thermal switch in the motor from Terminal 5 and receives on terminal 6
- If the thermal switch is not open the Motor Drive Board (U10) sends 240 VAC 3 phase to the motor.
- The motor reverses direction every 120 seconds with a 15 second coast.
- **NOTE:** If the set temperature is less than 212 degrees F than fan will be pulsed on for 2 seconds every 60 seconds after the cabinet set temp (B6).

b Hot air heat circuit is energized

- A signal is sent from terminal 8 of connector X15 on the Control Board (A10) to terminal 4 of connector X2 on the Hot Air Power Burner and Fan Control (U20) selecting the set speed of the combustion blower.
  - ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Hot Air Power Burner and Fan Control (U20) to terminal 2 of connector X15 on the Control Board (A10)
- A request for heat is sent from terminal 3 of connector X12 on the Control Board (A10) to terminal 10 on connector X1 on the Hot Air Control Module (N20)
  - ◊ 24 VAC is sent from terminal 2 of connector X2 on the Hot Air Control Module (N20) to the hot surface igniter (R20).
  - ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
  - ◊ The Hot Air Burner Control Module (N20) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 12 of connector X15 on the Control Board (A10)
- The heat circuit will remain energized until the cabinet set temperature is reached as sensed at probe B6.

c When the condensate box is heated to 140 degrees F at the B3probe, 120 VAC is sent from terminal 5 of connector X12 to the condenser valve (Y1) until the temperature drops.

d If the “Crisp and Tasty” mode is selected

- 120 VAC is sent from terminal 6 of connector X12 on the Control Board (A10) to the Dehumidification Valve (Y2) to pull the humidity out of the cabinet down the drain.
  - ◊ In the light and medium modes (one and two drops in the display) the Y2 valve will be energized until the bypass probe (B5) is satisfied.
  - ◊ In the full mode (3 drops in the display) the Y2 valve will be energized continuously.

e When the timer counts to 0 or the core temp probe (B10) reaches the set amount the cycle .

6 With the combi in the Combi mode with time on the timer, the door closed and the start switch is depressed

a The front display will include a lighted bar under the Combi symbol
- When the heat circuit is energized the heat symbol will be energized
- The cooking mode symbol will be energized.
- The time display will invert and begin to count down.

b The fan circuit is energized by the Control Board (A10) transmitting and receiving a signal from terminals 5,6, and 7 on connector X10 to connector X12 on the Motor Drive Board (U10).
- The motor Drive Board sends a signal through the thermal switch in the motor from Terminal 5 and receives on terminal 6
- If the thermal switch is not open the Motor Drive Board (U10) sends 240 VAC 3 phase to the motor.
- The motor reverses direction every 120 seconds with a 15 second coast.

c Hot air heat circuit is energized
- A signal is sent from terminal 8 of connector X15 on the Control Board (A10) to terminal 4 of connector X2 on the Hot Air Power Burner and Fan Control (U20) selecting the set speed of the combustion blower.
  - ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Hot Air Power Burner and Fan Control (U20) to terminal 2 of connector X15 on the Control Board (A10)
- A request for heat is sent from terminal 3 of connector X12 on the Control Board (A10) to terminal 10 on connector X1 on the Hot Air Control Module (N20)
  - ◊ 24 VAC is sent from terminal 2 of connector X2 on the Hot Air Control Module (N20) to the hot surface igniter (R20).
  - ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
  - ◊ The Hot Air Burner Control Module (N20) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 12 of connector X15 on the Control Board (A10)
- The heat circuit will remain energized until the cabinet set temperature is reached as sensed at probe B6.

d The steam circuit is energized.
- 120 VAC is sent from terminal 4 of connector X12 on the Control Board (A10) to the coil of the Y3 solenoid. Y3 solenoid opens allowing water to the pressure regulator set at 17 PSI. From the pressure regulator the water is sent through the flow regulator to be thrown against the element until the bypass probe (B5) senses 183 degrees F.
- The heat circuit will remain energized until the cabinet set temperature is reached

- If the bypass probe (B5) drops below the set level the steam circuit will start again.

e When the condensate box is heated to 140 degrees F at the B3probe, 120 VAC is sent from terminal 5 of connector X12 to the condenser valve (Y1) until the temperature drops.

f If the "Crisp and Tasty" mode is selected
- 120 VAC is sent from terminal 6 of connector X12 on the Control Board (A10) to the Dehumidification Valve (Y2) to pull the humidity out of the cabinet down the drain.
  - ◊ In the light and medium modes (one and two drops in the display) the Y2 valve will be energized until the bypass probe (B5) is satisfied.
  - ◊ In the full mode (3 drops in the display) the Y2 valve will be energized continuously.

g When the timer counts to 0 or the core temp probe (B10) reaches the set amount the cycle ends and the steam generator reverts to the standby temperature of 190-degree F.

7 With the combi in the Rethermalization mode with time on the timer, the door closed and the start switch is depressed

a The front display will include a lighted bar under the Retherm symbol
- When the heat circuit is energized the heat symbol will be energized
- The cooking mode symbol will be energized.
- The time display will invert and begin to count down.

b The fan circuit is energized by the Control Board (A10) transmitting and receiving a signal from terminals 5,6,7 and 8 on connector X10 to terminals 3,4,5 and 6 of connector X28 on the Gas Board (A20)

c The Gas board (A20) Transmits a signal from terminal 4 of connector X26 to the Motor Drive.
- The motor Drive Board sends a signal through the thermal switch in the motor from Terminal 5 and receives on terminal 6
- If the thermal switch is not open the Motor Drive Board (U10) sends 220 VAC 3 phase to the motor.
- The motor reverses direction every 120 seconds with a 15 second coast.
- **NOTE:** If the set temperature is less than 212 degrees F than fan will be pulsed on for 2 seconds every 60 seconds after the cabinet set temp (B6).

d Hot air heat circuit is energized
- A signal is sent from terminal 8 of connector X15 on the Control Board (A10) to terminal 4 of connector X2 on the Hot Air Power Burner and Fan Control (U20) selecting the set speed of the combustion blower.
  - ◊ When this speed is attained the signal is sent from terminal 2 of connector X2 on the Hot Air Power Burner and Fan Control (U20) to terminal 2 of connector X15 on the Control Board (A10)
- A request for heat is sent from terminal 3 of connector X12 on the Control Board (A10) to terminal 10 on connector X1 on the Hot Air Control Module (N20)
  - ◊ 24 VAC is sent from terminal 2 of connector X2 on the Hot Air Control Module (N20) to the hot surface igniter (R20).

- ◊ The gas valve is energized allowing gas and air into the burner chamber to be ignited by the hot surface igniter.
- ◊ The Hot Air Burner Control Module (N20) senses at least 1.5 micro amps DC from the flame sensor (P1) at terminal 3 of connector X2 and sends a signal from terminal 2 of connector X1 to terminal 12 of connector X15 on the Control Board (A10)

- The heat circuit will remain energized until the cabinet set temperature is reached as sensed at probe B6.

e The steam circuit is energized.

- 120 VAC is sent from terminal 4 of connector X12 on the Control Board (A10) to the coil of the Y3 solenoid. Y3 solenoid opens allowing water to the pressure regulator set at 17 PSI. From the pressure regulator the water is sent through the flow regulator to be thrown against the element until the bypass probe (B5) reaches set point.
- The heat circuit will remain energized until the cabinet set temperature is reached

f If the bypass probe (B5) drops below the set level the steam circuit will start again

g When the condensate box is heated to 140 degrees F at the B3probe, 120 VAC is sent from terminal 5 of connector X12 to the condenser valve (Y1) until the temperature drops.

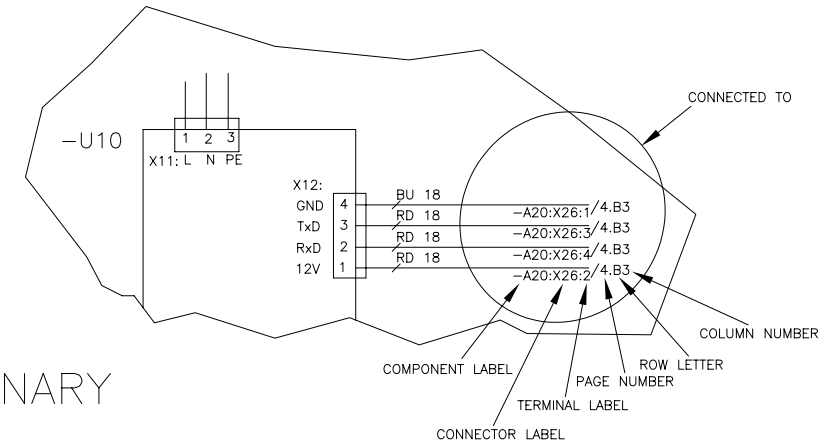
h When the timer counts to 0 or the core temp probe (B10) reaches the set amount the cycle ends and the steam generator reverts to the standby temperature of 190-degree F.

PARTS LIST

LABEL	DESCRIPTION	PART NO.	LOCATION
–A10	CONTROL BOARD (SM 5010)	C5019100	3
–A11	OPERATION BOARD (BM 5010)	C5019101	3
–A12	PICTO BOARD (OPTION)	C5019105	3.B1
–A13	I.D. MODULE	C5019102	3.B8
–B3	CONDENSOR PROBE	C5016006	3.B4
–B5	BYPASS PROBE	C5016006	3.B4
–B6	OVEN PROBE	C5016006	3.B4
–B7.1	OVEN HI–TEMP THERMOSTAT	C5001041	5.B4
–B10	CORE TEMP. PROBE (KTM CTC)	C5013000	3.B4
–F1.1	FUSE, 2A	300416	2.B3
–F2.1	FUSE, 1A	300418	3.E3
–F10	FUSE, 15A	KE52936–9	2.B6
–G1	POWER SUPPLY, 12VDC	300350	2.C3
–H5.1	OVEN LAMP	C5005043	3.E3
–M1	MOTOR, CONVECTION	C50180211	2.E5
–M3.1	COOLIING FAN	C5018023	3.E1
–N20	BURNER ASSY, HOT AIR	–	4.D3
	VALVE, GAS, 120VAC	C6016009	
	CONTROL, BURNER, 120VAC	C6016023	
–P1	FLAME SENSOR	C4018000	4.E3
–R20	IGNITOR, CONV.	C4018002	4.E4
–S1	SWITCH, CONTROL POWER	19993	2.A1
–S2	PRESSURE SWITCH (PUMP)	C5009055	3.A5
–S3	PRESSURE SWITCH (INJECT.)	C5009055	3.A5
–S7	DOOR SWITCH	C5003075	3.A6
–T1	TRANSFORMER, 120V/24V	300419	4.C2
–U10	AC DRIVE	300412	2.B6
–U20	POWER BURNER ASSY, HOT AIR	–	4.D6
	FAN, BURNER, 120VAC	C5018006	

LABEL	DESCRIPTION	PART NO.	LOCATION
–W1	CABLE, 9 PIN COM.	C5009304	3.C3
–Y1	VALVE, CONDENSER, 120VAC	300455	3.E4
	NOISE FILTER (RC)	300407	3.E4
–Y10	VALVE ASSY, 2 WAY, 120VAC	300456	3.E
	–Y2 VALVE, DEHUMID.	–	3.E
	–Y3 VALVE, GEN. FILL	–	3.E
	NOISE FILTER (RC)	–	3.E
	VALVE ASSY, 3 WAY, 120VAC(CLEANING OPTION)	300363	3
	–Y2 VALVE, DEHUMID.	–	3
	–Y3 VALVE, GEN. FILL	–	3
	–Y21 VALVE, CLEAN/RINSE	–	3
	NOISE FILTER (RC)	300407	3
–Y20	PUMP, RINSING AGENT, 120VAC(CLEANING OPTION)	300352	3.E7
–Y22	PUMP, CLEANING AGENT, 120VAC(CLEANING OPTION)	300352	3.E8
–Y23	PUMP, CLEANING AGENT, 120VAC(CLEANING OPTION)	300352	3.E8
–Z1	LINE FILTER	300413	2.B1

CONNECTION NUMBERING EXAMPLE



PRELIMINARY

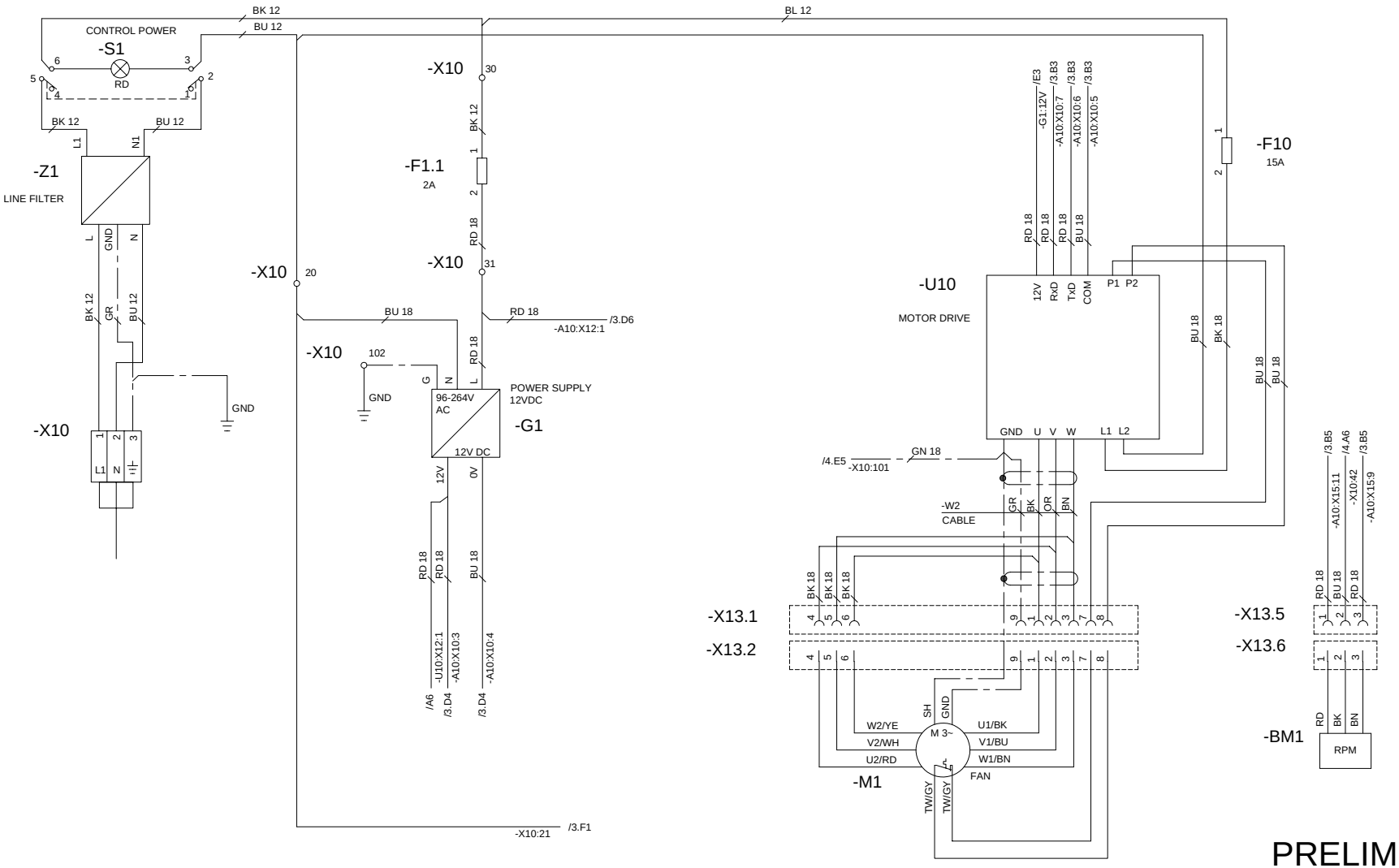
CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574

TITLE: WIRING DIAGRAM
OGS 6.20/10.10

VOLTAGE: 120VAC
WATTAGE: 10.25W
CURRENT: 11.7A

DRAWN BY: DRL
DATE: 8-9-05
DRAWING NO.: 300494
SIZE: B
SHEET 1 OF 6
REV: A

WIRING DIAGRAM

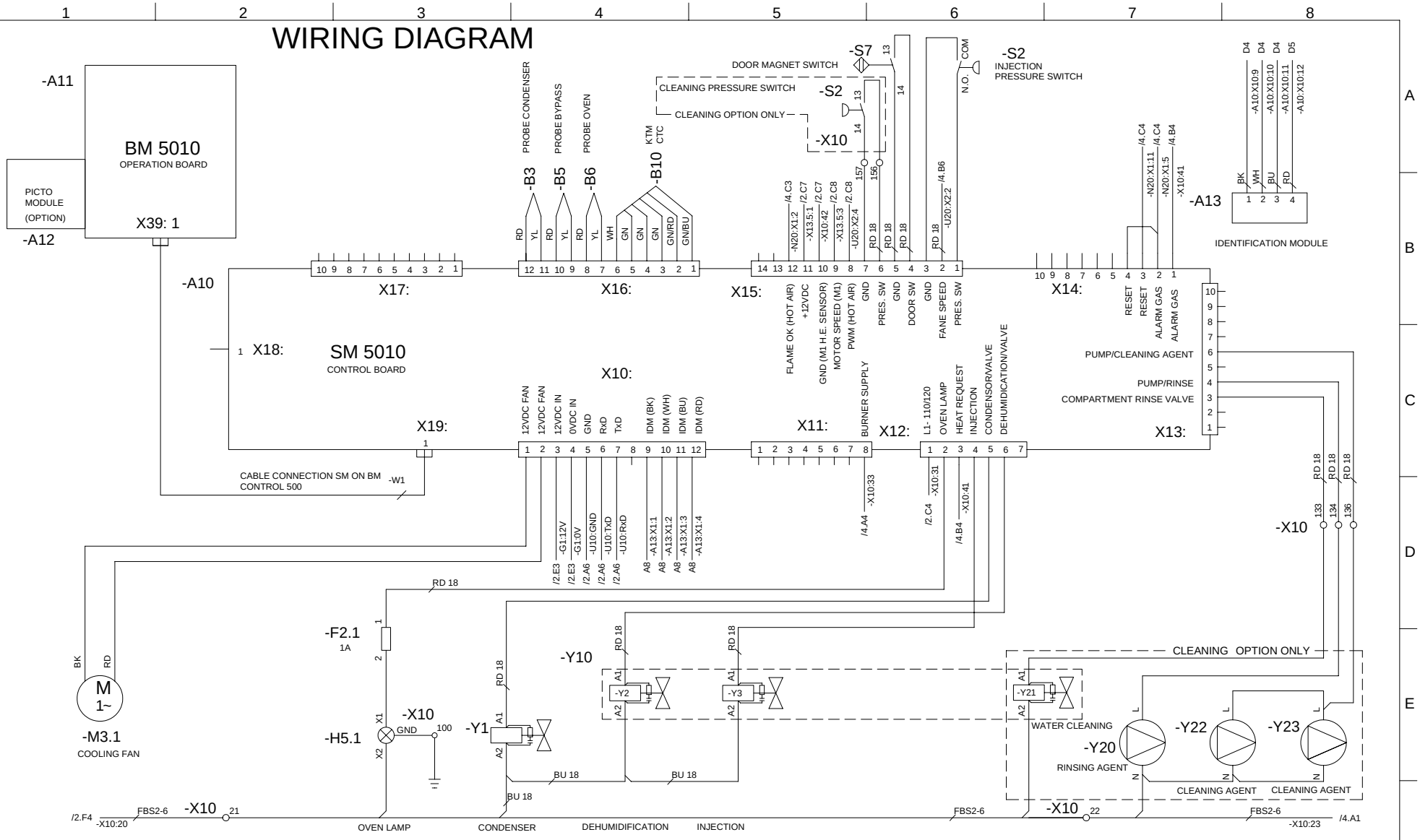


PRELIMINARY

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

TITLE: WIRING DIAGRAM OGS 6.20/10.10	VOLTAGE: 120VAC WATTAGE: 10.25W CURRENT: 11.7A	DRAWN BY: DRL	DRAWING NO.: 300494	REV: A	
		DATE: 8-9-05	SIZE: B	SHEET 2 OF 6	

WIRING DIAGRAM



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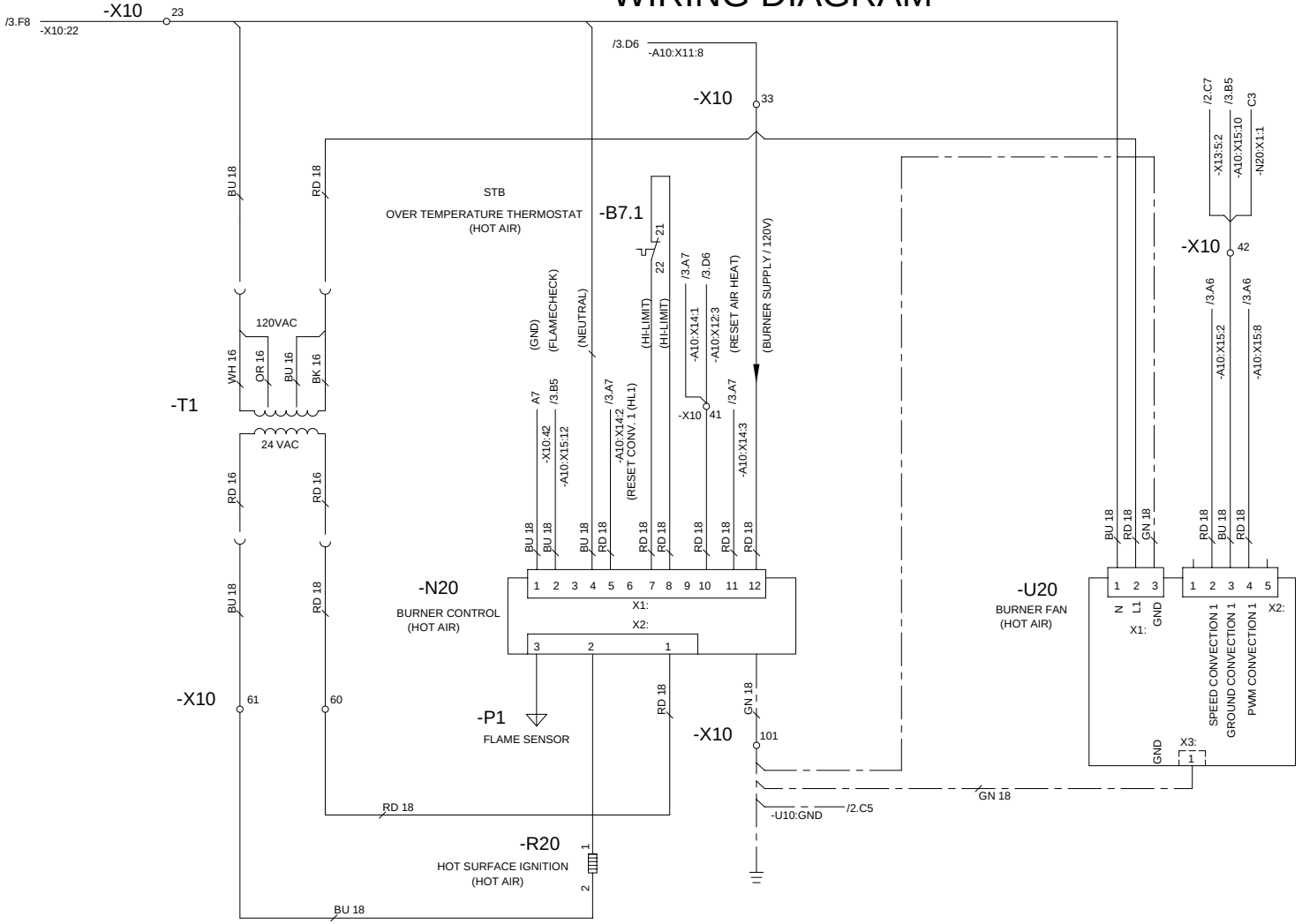
CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574

WIRING DIAGRAM



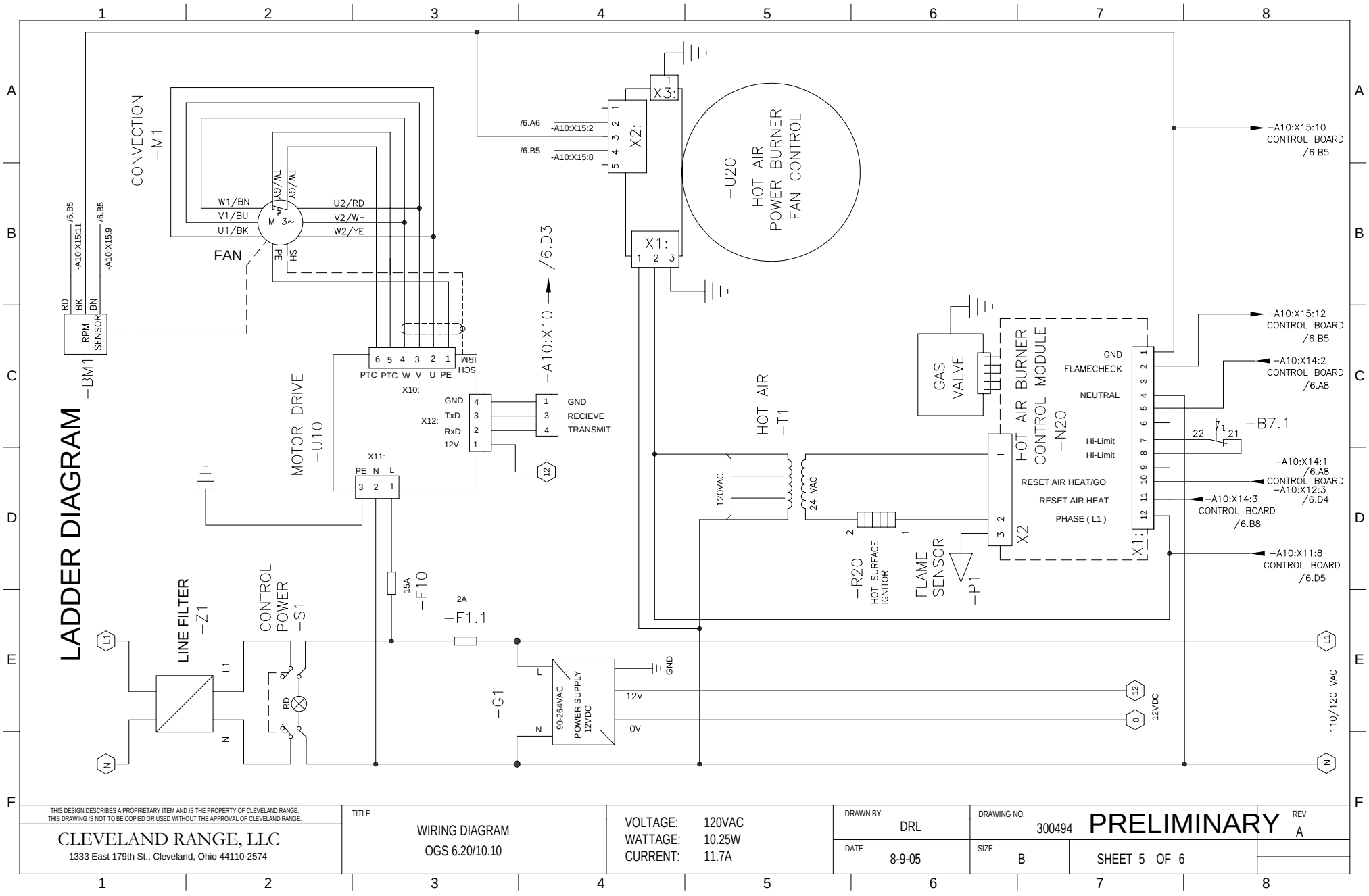
CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574

TITLE
WIRING DIAGRAM
OGS 6.20/10.10

VOLTAGE: 120VAC
WATTAGE: 10.25W
CURRENT: 11.7A

DRAWN BY: DRL
DATE: 8-9-05
DRAWING NO. 300494
SIZE: B
REV: A
SHEET 4 OF 6

PRELIMINARY



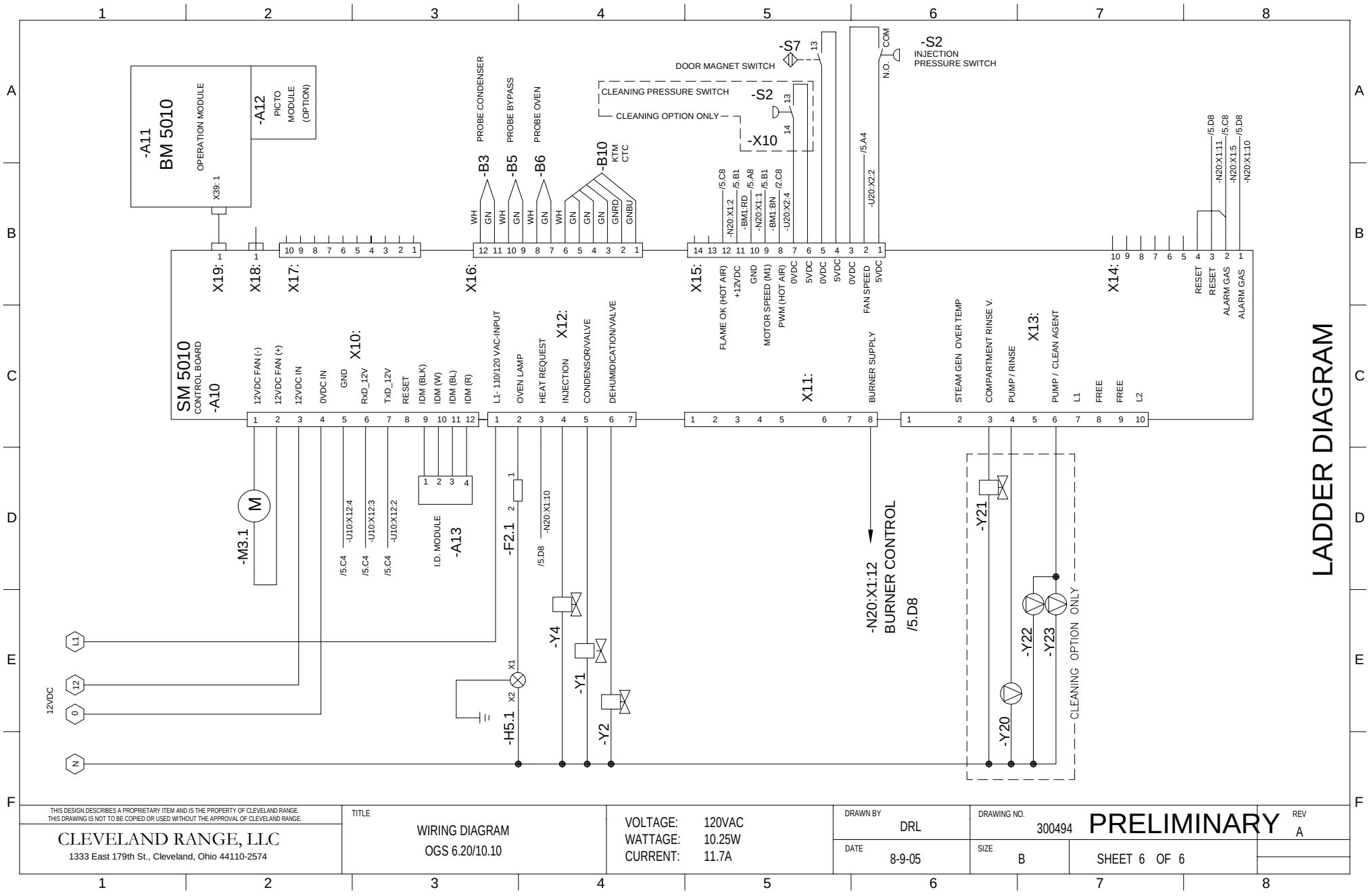
CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574

TITLE
WIRING DIAGRAM
OGS 6.20/10.10

VOLTAGE: 120VAC
WATTAGE: 10.25W
CURRENT: 11.7A

DRAWN BY: DRL
DATE: 8-9-05
DRAWING NO. 300494
SIZE: B
SHEET 5 OF 6
REV A

PRELIMINARY



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

TITLE
WIRING DIAGRAM
OGS 6.20/10.10

VOLTAGE: 120VAC
WATTAGE: 10.25W
CURRENT: 11.7A

DRAWN BY: DRL
DATE: 8-9-05

DRAWING NO. 300494
PRELIMINARY
REV A
SIZE B
SHEET 6 OF 6

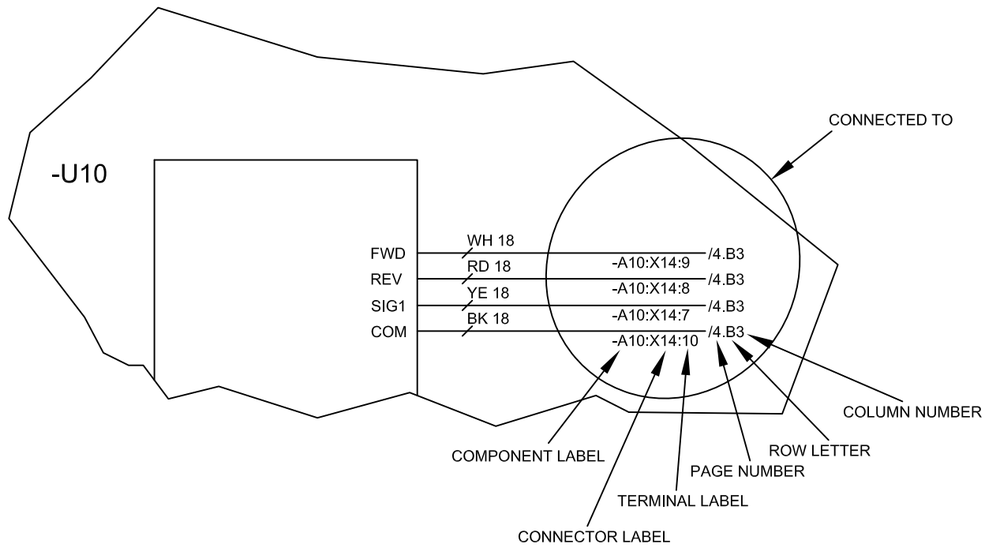
PARTS LIST

LABEL	DESCRIPTION	PART NO.	LOCATION
-A10	CONTROL BOARD (SM 5010)	C5019100	3
-A11	OPERATION BOARD (BM 5010)	C5019101	3
-A12	PICTO BOARD (OPTION)	C5019105	3.B1
-A13	I.D. MODULE	C5019102	3.B8
-B3	CONDENSOR PROBE	C5016006	3.B4
-B5	BYPASS PROBE	C5016006	3.B4
-B6	OVEN PROBE	C5016006	3.B4
-B7.1	OVEN HI-TEMP THERMOSTAT	C5001041	5.B4
-B10	CORE TEMP. PROBE (KTM CTC)	C5013020	3.B4
-F1	FUSE, 3A	300752	2.B3
-F2	FUSE, 1A	300418	3.E3
-FS1	FUSE, 15A	300751	2.B6
-F10	FLAME SENSOR	C4018000	4.E3
-G1	POWER SUPPLY, 12VDC	300350	2.C3
-H5	OVEN LAMP	C5005043	3.E3
-M1	MOTOR, CONVECTION	C5018021	2.E5
-M3	COOLIING FAN	C5018023	3.E1
-N20	BURNER ASSY, HOT AIR	-	4.D3
	VALVE, GAS, 120VAC	C6016009	
	CONTROL, BURNER, 120VAC	C6016023	
-R20	IGNITOR, CONV.	C4018002	4.E4
-S1	SWITCH, CONTROL POWER	19993	2.A1
-S2	PRESSURE SWITCH (PUMP)	C5013052	3.A5
-S3	PRESSURE SWITCH (INJECT.)	C5009063	3.A5
-S7	DOOR SWITCH	C5003075	3.A6
-T1	TRANSFORMER, 120V/24V	300419	4.C2
-U10	AC DRIVE	300925	2.B6
-U20	POWER BURNER ASSY, HOT AIR	-	4.D6
	FAN, BURNER, 120VAC	C5018006	

LABEL	DESCRIPTION	PART NO.	LOCATION
-W1	CABLE, 9 PIN COM.	300533	3.C3
-Y1	VALVE, CONDENSER, 120VAC (W/O CLEANING OPTION)	300455	3.E4
	NOISE FILTER (RC)	300407	3.E4
-Y10	VALVE ASSY, 2 WAY, 120VAC	300456	3.E4
	-Y2 VALVE, DEHUMID.	-	3.E4
	-Y3 VALVE, GEN. FILL	-	3.E5
	NOISE FILTER (RC)	-	3.E4, 3.E5
-Y11	VALVE ASSY, 2 WAY, 120VAC(CLEANING OPTION)	300456	3.E6
	-Y1 VALVE, CONDENSER 120VAC	-	3.E3
	-Y21 VALVE, CLEAN/RINSE	-	3.E6
	NOISE FILTER (RC)	300407	3.E4, 3.E6
-Y20	PUMP, RINSING AGENT, 120VAC(CLEANING OPTION)	300352	3.E7
-Y22	PUMP, CLEANING AGENT, 120VAC(CLEANING OPTION)	300352	3.E8
-Y23	PUMP, CLEANING AGENT, 120VAC(CLEANING OPTION)	300352	3.E8
-Z1	LINE FILTER	300413	2.B1

After 6/2012

CONNECTION NUMBERING EXAMPLE



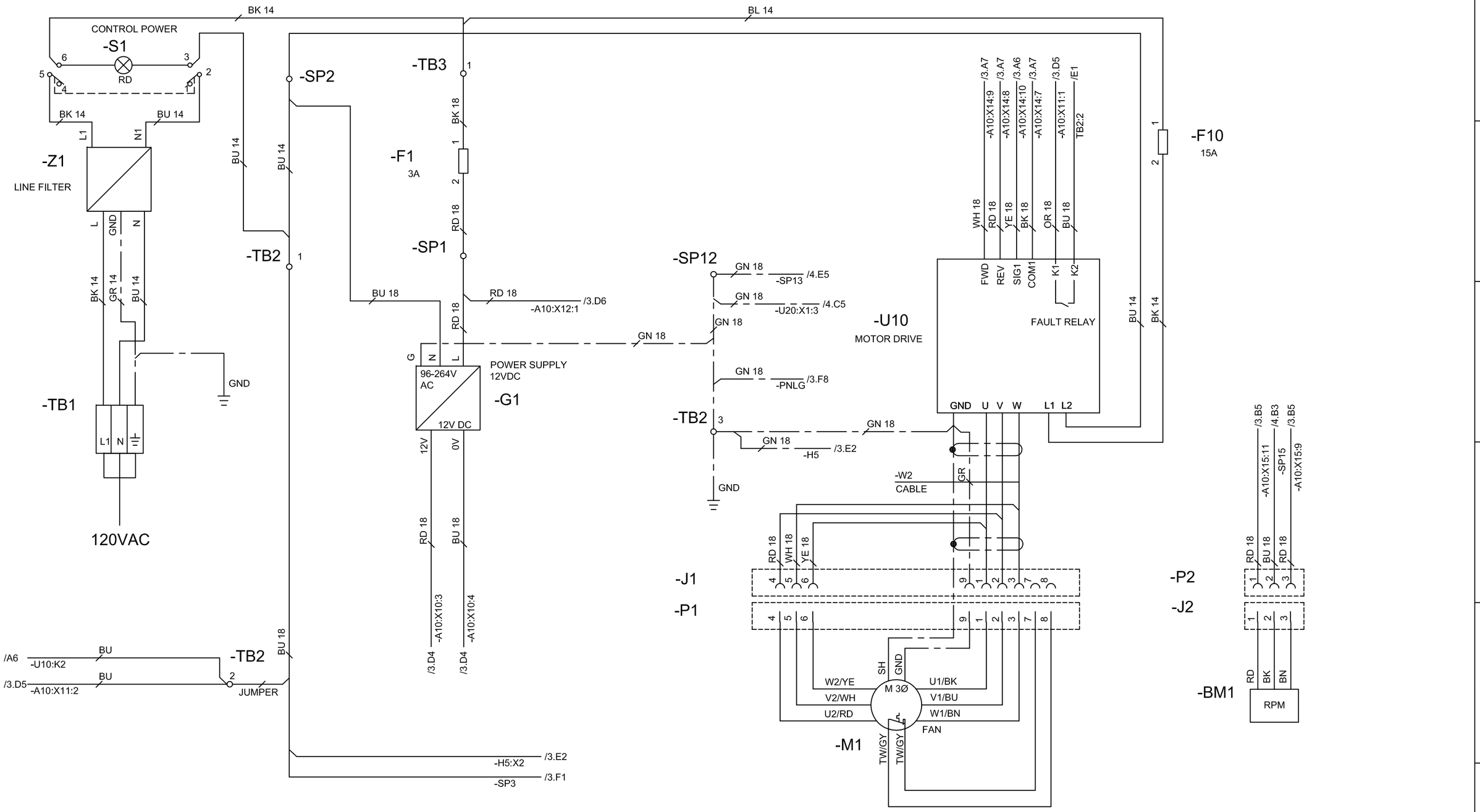
CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574

TITLE: WIRING DIAGRAM
OGS 6.10/6.20/10.10

VOLTAGE: 120VAC
WATTAGE: 588W
CURRENT: 4.9A

DRAWN BY: DRL
DATE: 6-6-12
DRAWING NO.: 300938
SIZE: B
SHEET 1 OF 6
REV: A

WIRING DIAGRAM



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CLEVELAND RANGE, LLC	WIRING DIAGRAM	WATTAGE: 588W	DRL	300938	A
1333 East 179th St., Cleveland, Ohio 44110-2574	OGS 6.10/6.20/10.10	CURRENT: 4.9A	DATE 6-6-12	SIZE B	SHEET 2 OF 6

WIRING DIAGRAM

-A11
BM 5010
OPERATION BOARD
X39: 1
PICTO MODULE (OPTION)
-A12

-A10
SM 5010
CONTROL BOARD
X17: 10 9 8 7 6 5 4 3 2 1
X16: 12 11 10 9 8 7 6 5 4 3 2 1 (- + - + - + - + + + + GND)
X15: 14 13 12 11 10 9 8 7 6 5 4 3 2 1
X14: 10 9 8 7 6 5 4 3 2 1
X18: 1
X19: 1
X10: 1 2 3 4 5 6 7 8 9 10 11 12
X11: 1 2 3 4 5 6 7 8
X12: 1 2 3 4 5 6 7
X13: 1 (10 9 8 7 6 5 4 3 2 1)

PROBE CONDENSER -B3 (RD YE)
PROBE BYPASS -B5 (RD YE)
PROBE OVEN -B6 (RD YE)
KTM CTC -B10 (WH GN YE RD BU)

DOOR MAGNET SWITCH -S7 (13 14 N.O. COM)
CLEANING PRESSURE SWITCH
CLEANING OPTION ONLY
-S2 (3 1)
/4.B7 -U20:X2:3
/4.B3 -SP15
P3:5 J3:5 P3:4 J3:4

-S3
INJECTION PRESSURE SWITCH

-A13
IDENTIFICATION MODULE
D4 -A10:X10:9 (BK)
D4 -A10:X10:10 (WH)
D4 -A10:X10:11 (BU)
D5 -A10:X10:12 (RD)
1 2 3 4

X16: - + - + - + - + + + + GND
X15: /4.C3 -N20:X1:2 /2.C7 -P2:1 /2.C8 -P2:3 /4.B7 -U20:X2:4 J3:5 J3:4 RD 18 RD 18 RD 18 /4.B6 -U20:X2:2 RD 18
X14: /2.A6 -U10:SIG1 YE 18 /2.A6 -U10:FWD WH 18 /2.A6 -U10:REV RD 18 /2.A6 -U10:COM1 BK 18 /4.C4 -N20:X1:11 /4.C4 -N20:X1:5 /4.B4 -SP17

X10: 12VDC FAN, 12VDC FAN, 12VDC IN, 0VDC IN, GND, RxD, TxD, IDM (BK), IDM (WH), IDM (BU), IDM (RD)
X11: MOTOR OVER TEMP, MOTOR OVER TEMP, FLAME OK (HOT AIR), +12VDC, GND (M1 H.E. SENSOR), MOTOR SPEED (M1), PWM (HOT AIR), GND, BURNER SUPPLY (120VAC OUT)
X12: L1- 120VAC IN, OVEN LAMP, HEAT REQUEST, INJECTION, CONDENSOR/VALVE, DEHUMIDICATION/VALVE
X13: MOTOR/SLOW, MOTOR/CW, MOTOR/CCW, MOTOR/COM., RESET, RESET, ALARM GAS, ALARM GAS

PUMP/CLEANING AGENT
PUMP/RINSE
COMPARTMENT RINSE VALVE

CABLE CONNECTION SM ON BM CONTROL 500 -W1

X19: 1 2 3 4 5 6 7 8 9 10 11 12
/2.E3 -G1:12V
/2.E3 -G1:0V
A8 -A13:X1:1
A8 -A13:X1:2
A8 -A13:X1:3
A8 -A13:X1:4

X11: 1 2 3 4 5 6 7 8
/2.A6 -U10:K1
/2.E1 -TB2:2
/4.A4 -SP10

X12: 1 2 3 4 5 6 7
/2.C4 -SP1
/4.B4 -SP17

X13: 10 9 8 7 6 5 4 3 2 1
J3:1 P3:1 RD 18
J3:2 P3:2 RD 18
J3:3 P3:3 RD 18

RD 18

-F2
1A
1
2

BK RD
M
1Ø
-M3
COOLING FAN

-H5
X1
X2
/2.D5 -TB2:3 GN 18
/2.E4 -TB2:1

OR 18
-Y1 (A1 A2)

BK 18
-Y10
-Y2 (A1 A2)

YE 18
-Y3 (A1 A2)

BU 18
BU 18
BU 18

/4.A1 -SP5
/2.F4 -TB2:1
-SP3
BU 18
OVEN LAMP
CONDENSER
DEHUMIDIFICATION
INJECTION

CLEANING OPTION ONLY

-Y11
(INCLUDES -Y1 WITH CLEANING OPTION)

-Y21 (A1 A2)
WATER CLEANING

-Y20
RINSING AGENT
-Y22
CLEANING AGENT
-Y23
CLEANING AGENT

J3:6 P3:6
BU 18
BU 18

-SP4
-PNLG
/2.C5 -TB2:3

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

TITLE	WIRING DIAGRAM OGS 6.10/6.20/10.10
VOLTAGE:	120VAC
WATTAGE:	588W
CURRENT:	4.9A
DRAWN BY	DRL
DATE	6-6-12
DRAWING NO.	300938
SIZE	B
SHEET	3 OF 6
REV	A

WIRING DIAGRAM

/3.F1 -SP3 — -SP5

/5.A5 -A10:X11:8 — -SP10

BU 18 — RD 18

120VAC

-T1

WH 16 — OR 16 — BU 16 — BK 16

24 VAC

RD 16 — RD 16

BU 18 — RD 18

STB
OVER TEMPERATURE THERMOSTAT
(HOT AIR)

-B7.1

/2.C7 -P2:2 — /3.A5 -A10:X15:10 — (GND) (FLAMECHECK) — /3.B5 -A10:X15:12 — BU 18 BU 18

(NEUTRAL) — /3.A7 -A10:X14:2 (RESET CONV. 1 (HL1)) — BU 18 RD 18

(HI-LIMIT) — 21 22 — RD 18 RD 18

(HI-LIMIT) — /3.A7 -A10:X14:1 — -A10:X12:3 /3.D6 (RESET AIR HEAT) — -SP17 — RD 18

(BURNER SUPPLY / 120V) — /3.A7 -A10:X14:3 — RD 18

-SP15

-N20
BURNER CONTROL
(HOT AIR)

X1: 1 2 3 4 5 6 7 8 9 10 11 12

X2: 3 2 1

-FS1
FLAME SENSOR

RD 18 — GN 18 — -SP13 — /2.B5 -SP12

RD 18

-R20
HOT SURFACE IGNITION
(HOT AIR)

1 2

BU 18

/2.C5 -SP12

BU 18 — RD 18 — GN 18

-U20
BURNER FAN
(HOT AIR)

X1: 1 2 3 — N L1 GND

X2: 1 2 3 4 5 — SPEED CONVECTION 1 — GROUND CONVECTION 1 — PWM CONVECTION 1

/3.A5 -A10:X15:2 — /3.A5 -A10:X15:10 — /3.A6 -A10:X15:8 — RD 18 BU 18 RD 18

X3: 1 — GND

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

TITLE: WIRING DIAGRAM OGS 6.10/6.20/10.10	VOLTAGE: 120VAC WATTAGE: 588W CURRENT: 4.9A	DRAWN BY: DRL	DRAWING NO.: 300938	REV: A
		DATE: 6-6-12	SIZE: B	SHEET 4 OF 6

LADDER DIAGRAM

CONVECTION -M1

FAN

W1/BN
V1/BU
U1/BK
U2/RD
V2/WH
W2/YE
M 3~
GND
SH

/6.B5 -A10:X15:11 RD BK
/6.B5 -A10:X15:9 BN

RPM SENSOR -BM1

MOTOR DRIVE -U10

W V U GND

COM
REV
FWD
SIG1

FAULT RELAY K1 K2

GND L2 L1

-A10:X14 /6.B7

7 COM
8 CCW
9 CW
10 SLOW

1
2

-A10:X11 /6.D5

-U20 HOT AIR POWER BURNER FAN CONTROL

X3: 1

X2: 1 2 3 4 5

/6.A6 -A10:X15:2
/6.B5 -A10:X15:8

X1: 1 2 3

-A10:X15:10 CONTROL BOARD /6.B5

HOT AIR -T1

120VAC
24 VAC

GAS VALVE

HOT AIR BURNER CONTROL MODULE -N20

1
2
3

RESET AIR HEAT/GO
RESET AIR HEAT
PHASE (L1)

X2

GND
FLAMECHECK
NEUTRAL
Hi-Limit
Hi-Limit

1 2 3 4 5 6 7 8 9 10 11 12

X1:

-A10:X15:12 CONTROL BOARD /6.B5
-A10:X14:2 CONTROL BOARD /6.B8
-B7.1
-A10:X14:1 /6.B8 CONTROL BOARD
-A10:X12:3 /6.D4
-A10:X14:3 CONTROL BOARD /6.B8
-A10:X11:8 CONTROL BOARD /6.D5

-R20 HOT SURFACE IGNITOR

FLAME SENSOR -FS1

-G1

L
N
90-264VAC
POWER SUPPLY
12VDC
GND
12V
0V

12
0
12VDC

-F10 15A

-F1 3A

LINE FILTER -Z1

L1
N

CONTROL POWER -S1

RD

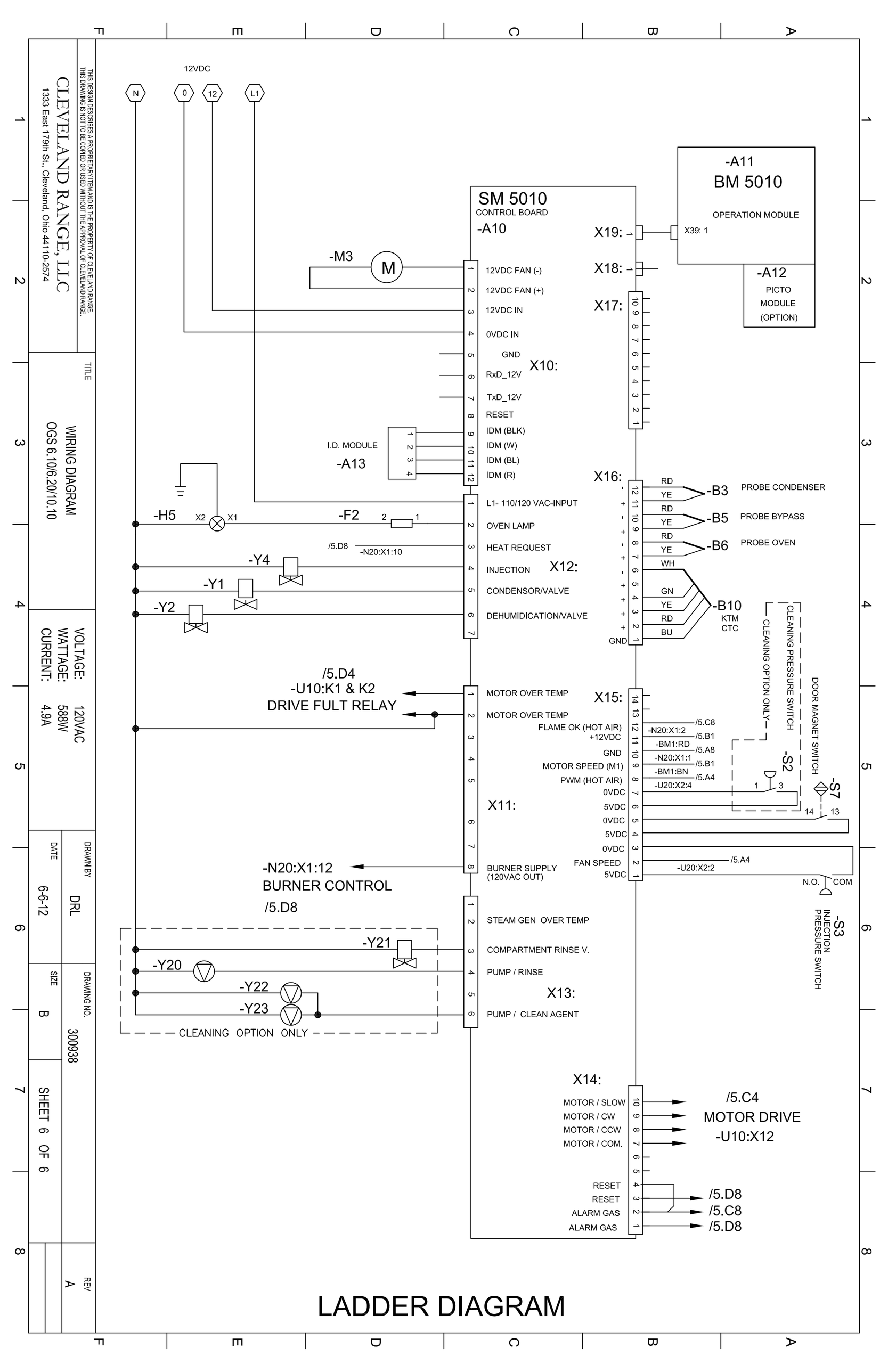
L1
N
110/120 VAC

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

TITLE
WIRING DIAGRAM
OGS 6.10/6.20/10.10

VOLTAGE: 120VAC
WATTAGE: 588W
CURRENT: 4.9A

DRAWN BY: DRL
DATE: 6-6-12
DRAWING NO.: 300938
SIZE: B
SHEET 5 OF 6
REV: A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CLEVELAND RANGE, LLC
1333 East 179th St., Cleveland, Ohio 44110-2574
TITLE
WIRING DIAGRAM
OGS 6.10/6.20/10.10
VOLTAGE: 120VAC
WATTAGE: 588W
CURRENT: 4.9A
DRAWN BY
DRL
DATE
6-6-12
DRAWING NO.
300938
SIZE
B
SHEET 6 OF 6
REV
A
12VDC
N
0
12
L1
SM 5010
CONTROL BOARD
-A10
-A11
BM 5010
OPERATION MODULE
X39: 1
-A12
PICTO
MODULE
(OPTION)
X19:
X18:
X17:
X10:
-M3
M
12VDC FAN (-)
12VDC FAN (+)
12VDC IN
0VDC IN
GND
RxD_12V
TxD_12V
RESET
IDM (BLK)
IDM (W)
IDM (BL)
IDM (R)
I.D. MODULE
-A13
L1- 110/120 VAC-INPUT
-H5
X2
X1
-F2
OVEN LAMP
/5.D8
-N20:X1:10
HEAT REQUEST
-Y4
INJECTION
-Y1
CONDENSOR/VALVE
-Y2
DEHUMIDICATION/VALVE
X12:
X16:
RD
YE
-B3
PROBE CONDENSER
-B5
PROBE BYPASS
-B6
PROBE OVEN
WH
GN
BU
-B10
KTM
CTC
GND
/5.D4
-U10:K1 & K2
DRIVE FULT RELAY
MOTOR OVER TEMP
X15:
FLAME OK (HOT AIR)
+12VDC
GND
MOTOR SPEED (M1)
PWM (HOT AIR)
0VDC
5VDC
-N20:X1:2
-BM1:RD
-BM1:BN
-U20:X2:4
/5.C8
/5.B1
/5.A8
/5.A4
CLEANING OPTION ONLY
CLEANING PRESSURE SWITCH
DOOR MAGNET SWITCH
-S2
-S7
X11:
FAN SPEED
-U20:X2:2
N.O.
COM
-S3
INJECTION
PRESSURE SWITCH
-N20:X1:12
BURNER CONTROL
/5.D8
BURNER SUPPLY
(120VAC OUT)
STEAM GEN OVER TEMP
-Y21
COMPARTMENT RINSE V.
-Y20
PUMP / RINSE
-Y22
-Y23
PUMP / CLEAN AGENT
X13:
CLEANING OPTION ONLY
X14:
MOTOR / SLOW
MOTOR / CW
MOTOR / CCW
MOTOR / COM.
/5.C4
MOTOR DRIVE
-U10:X12
RESET
RESET
ALARM GAS
ALARM GAS
/5.D8
/5.C8
/5.D8
LADDER DIAGRAM