



**FC** industries, inc.

13508 OAK ST. • KANSAS CITY, MISSOURI 64145  
(816) 941-2009 • 1-800-345-0847  
Fax (816) 941-2199

## "IMPORTANT"

### "S" SERIES INSTALLATION & ADJUSTMENTS OF INCINERATOR & CONTROLS / TOP LOAD / GAS

→ FOR S-18, S-27, S-27-T RAISE FRONT OF UNIT  $\frac{1}{4}$ "  
AND PLACE SHIMS UNDER BOTH FRONT CORNERS

Once the main body (refuse chamber) of the incinerator has been placed on the concrete slab and is leveled, The load door counter weight and stacks may be installed. Sufficient bolts, nuts and high temperature mortar to install stacks are packaged in main body chamber.

#### FOLLOW THIS PROCEDURE:

##### Door:

1. Open main load door and lock in the open position. Remove counter weight from the incinerator and bolt to the load door counter weight arm.
2. Once installed, remove cover plate from counter weight and pour in the additional counter weight material located inside the incinerator.

##### Stacks:

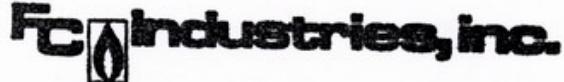
1. Spread a thin layer of high-temperature mortar on the top of the base section indicated by a  $\frac{3}{4}$ " coupling located 4 ft from bottom of the stack, ~~-or middle (plain)~~ ~~-section if three stacks are supplied.~~
2. Set top stack section (plain) on top of lower stack section and bolt together. Making sure the probe stack is the bottom section.
3. Continue the process until all stacks have been bolted together.
4. Spread a thin layer of high-temperature mortar on top of afterburner.
5. Set ~~all~~ stacks at once on top of afterburner and bolt in place.

\* Note: Rotate stack so that  $\frac{3}{4}$ " coupling lines up with thermocouple conduit.

You  
&  
PCI

After incinerator stack is set, the thermocouple probe must be connected. The probe is installed into the  $\frac{3}{4}$ " pipe coupling located in the bottom stack section. However, the thermocouple wire has been left unconnected.

1. Screw probe into stack coupling loosely.
2. Remove cover from probe terminals.
3. Insert probe wire through flex provided (packaged in main body chamber).
4. Connect yellow wire to (+) positive terminal.
5. Connect red wire to (-) negative terminal.
6. Replace probe terminal cover.



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Electrical power can now be connected to the unit.

Normal electrical service is 115 volts, single phase, 60 Hz with a total maximum load of 20 amps. It should be supplied to the panel from a separate branch circuit on the nearest distribution panel, with no other shut-off means except for the disconnect where required by code.

See electrical print in section 5 before connecting power to unit.

The gas should now be connected.

1. Gas

- a. Connect gas line to regulator provided on unit.
- b. Check all gas fittings for leaks (vibration from shipment).

The gas line should preferably be a separate line direct from the meter. If it is to use an existing line it should be checked to determine whether it can handle the new load without excessive pressure drop. When branching off of an existing gas line do not tap off from the bottom of horizontal sections.

The unit is now ready to fire.

1. Slowly open gas valves.
2. Purge the gas line to the regulator.
3. Trip electrical breakers to "ON" position.

Before proceeding, set the "Run" timer and push the "START" button. Turn to the curing instructions and set the temperature controllers for cure out!

1. Turn the control burner switch to the "ON" position.
2. The control burner switch may have to be turned "OFF" and "ON" several times to purge the gas line and reset the flame safety.
3. Turn the refuse burner switch to the "ON" position.
4. The refuse burner switch may have to be turned "OFF" and "ON" several times to purge the gas line and reset the flame safety.

The burners and air have been preset at the factory. However, if the unit tends to burn too rapidly with traces of smoke, then the primary dampers at the rear of the unit should be closed slightly and the control chamber air dampers located on the control chamber opened slightly (see operational settings page).

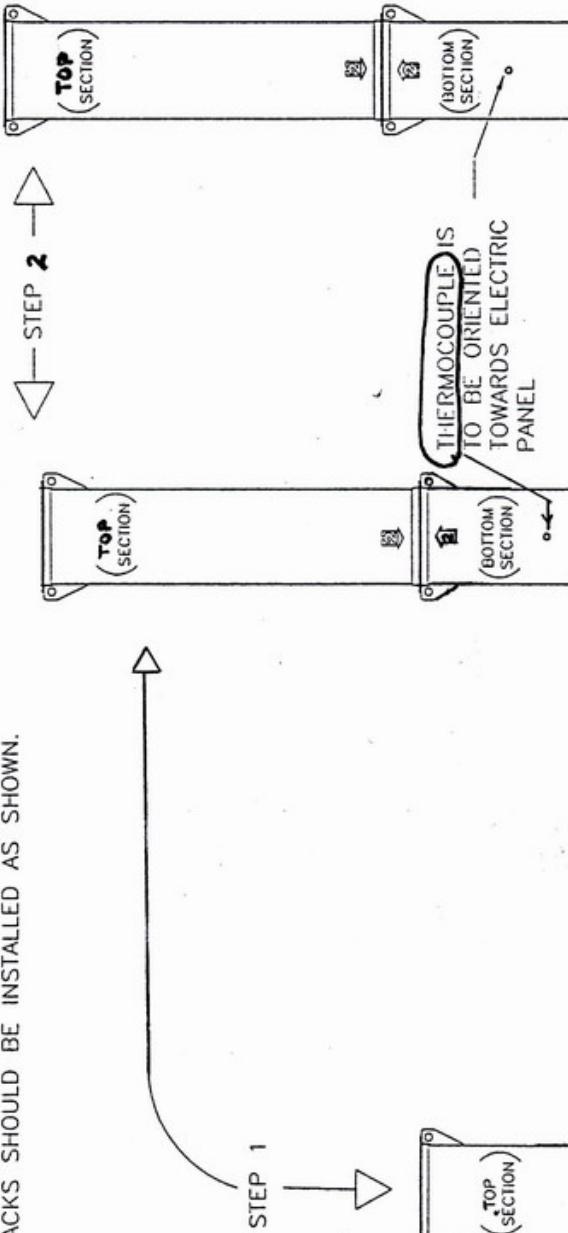
# FC Industries, Inc.

## "S" Models With 2-Stack Sections

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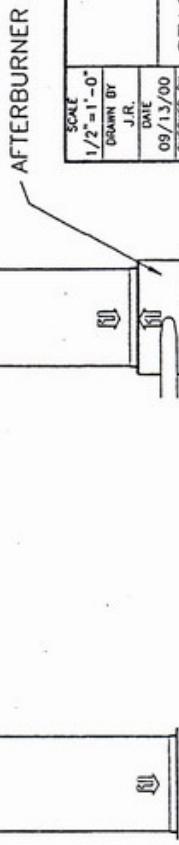
- STEP 1:** PLACE **TOP** STACK (SEE PAGE TWO FOR BOLTING)
- STEP 2:** PLACE STACKS **ON AFTERBURNER**
- NOTE: STACK #1 TO AFTERBURNER REQUIRES NO NUTS

**PLEASE NOTE:**  
ON STACK #1 THERMOCOUPLE (3/4" COUPLING) IS TO BE ORIENTED TOWARDS ELECTRIC PANEL  
ALL STACKS SHOULD BE INSTALLED AS SHOWN.



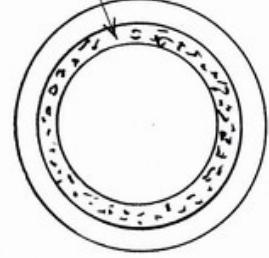
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STACK ASSEMBLY DIAGRAM		BSG-2644	CHARGE
1/2" = 1'-0"	SCALE	J.R. DATE 09/13/00 CHECKED BY	SHEMWOOD, OREGON 97140 SHEET 1 OF 2

TOP VIEW OF STACK



MOISTEN REFRACATORY WITH WATER;  
WITH SMALL PUTTY KNIFE, APPLY MASTIC  
TO REFRACATORY PORTION OF THE STACK

TYPICAL  
CONNECTION

ALL BOLTS MUST BE INSTALLED  
AS SHOWN TO PROPER TORQUE  
SETTING (30 LBS)

SPREAD THIN LAYER  
OF MASTIC BETWEEN  
STACKS. SEE DETAIL  
ABOVE (TOP VIEW  
OF STACK.)

BOLT

LOCK WASHER

NUT

LIFTING EYE

2

2

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DATE	09/13/00	
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REVISION		
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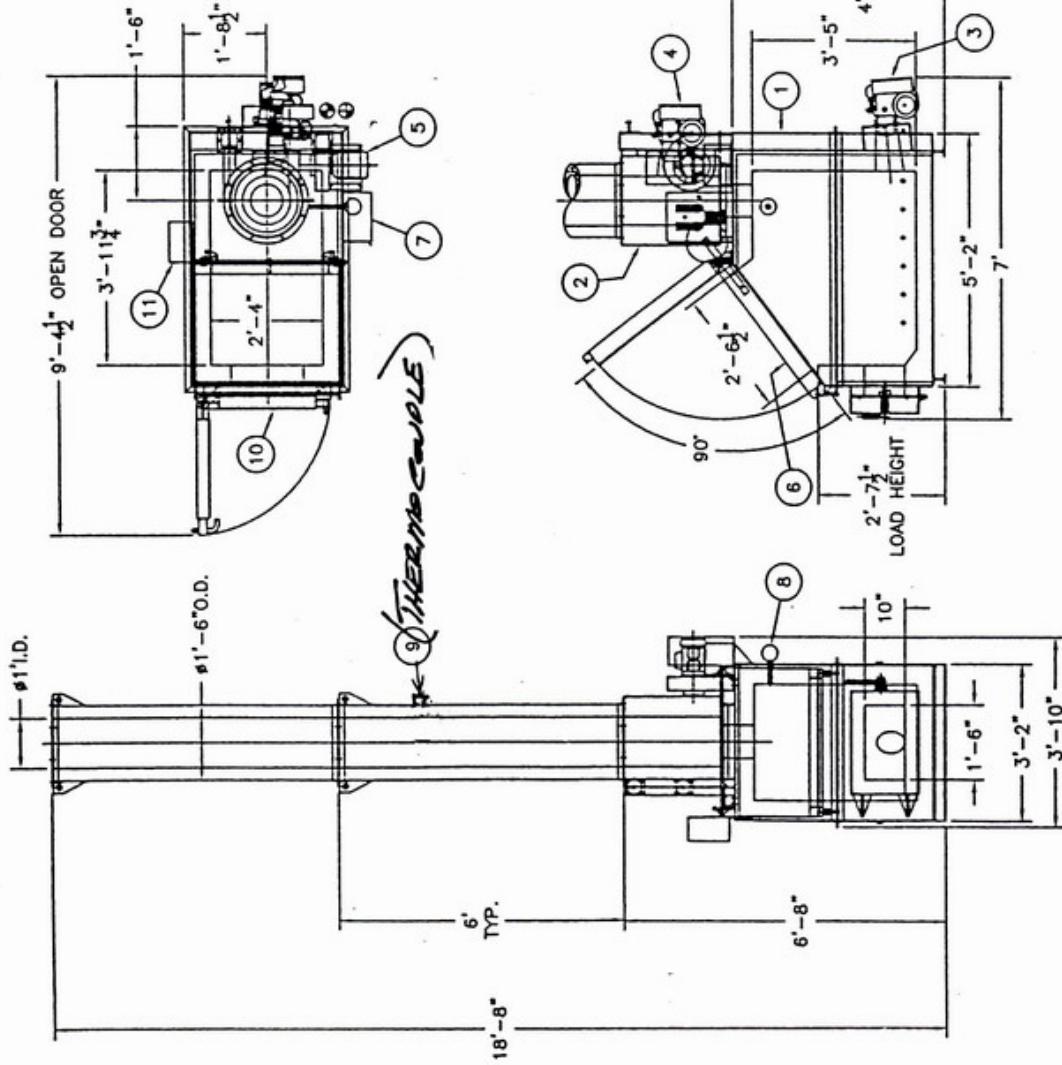
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RI	64145	1	MODEL S-27-T CREMATORY														
		2	AFTERTBURNER														
		3	PRIMARY BURNER														
		4	SECONDARY BURNER														
		5	COMBUSTION AIR FAN/MOTOR														
		6	LOAD DOOR														
		7	CONTROL PANEL														
		8	PRIMARY THERMOCOUPLE														
		9	SECONDARY THERMOCOUPLE														
		10	CLEAN-OUT DOOR														
		11	LOAD DOOR COUNTERWEIGHT														
		12	FUEL SERVICE LINE (BY OTHERS)														
		13	ELECTRICAL SERVICE (BY OTHERS)														
<p><b>Company &amp; Features</b></p> <p>Company - 28 Years In Business - Design, Engineering And Manufacturing            (State Of The Art) Design And Manufacturing - Latest Combustion Technology Available            Rigid Quality Control, Compliance To 18 Agency Standards Such As ASME, AGE, U.L., etc.</p>																	
<p><b>Primary Chamber</b></p> <p>100 Pound Batch Load Or Load Single Animals For Private Cremation            Constructed With 3/16" Steel Plate, High Temperature Insulation, Heavy Duty Cast Refractory Lining            Load Door Opening 30 1/2" x 38"</p> <p>19 Cubic Foot Combustion Chamber            Easy Loading - 31" From Ground Level            Load Door Lined With High Temperature Composite Material            Load Door Counterbalanced For Easy Opening            Refractory Lined Ash Remains Clean Out Door, Opening 18" x 10"            Built In Liquid Retention Dam</p> <p>Full Combustion Air Adjustment            Easy To Service Exterior Air Passage Clean Outs            Primary Burner, 800,000 Btu's, Operated At 400,000 Btu's            Secondary Chamber (Afterburner)            Linning, 3,000°F With Pre-Heated Air Jacket            Secondary Burner, 800,000 Btu's, Operated At 400,000 Btu's            Full Combustion Air Adjustment</p> <p>Two 6' Sections Provided, Flanged Top And Bottom, 3" Refractory Lined            Stacks</p> <p>Two 6' Sections Provided, Flanged Top And Bottom, 3" Refractory Lined            Control System</p> <p>15 Volt, 30 Amp, Single Phase            Electrical Control Panel And Instruments All U.L. Laboratories Listed # 508A            Temperature Controls For Both Primary And Secondary Chambers For Fuel Efficiency            Digital Displays On Temperature Controls And Burn Timer            Installation</p> <p>Pre-Wired And Pre-Plumbed At Factory, Ready For Installation            Operations And Maintenance Manuals            Clean Out Tools, Bolts, Nuts, And Joint Compound For Installation            Shipping, Three Pieces, Main Chamber And Two Stack Sections</p>																	
<table border="1"> <tr> <td>SCALE</td> <td>3'8" = 1'-0"</td> </tr> <tr> <td>DRAWN BY</td> <td>T.SERPE</td> </tr> <tr> <td>DATE</td> <td>06/19/01</td> </tr> <tr> <td>CHECKED BY</td> <td></td> </tr> </table>		SCALE	3'8" = 1'-0"	DRAWN BY	T.SERPE	DATE	06/19/01	CHECKED BY		<table border="1"> <tr> <td>TO SPACES</td> <td>± 1/32"</td> </tr> <tr> <td>L/C</td> <td>BSG-2688</td> </tr> <tr> <td colspan="2">CHARGE</td> </tr> </table>		TO SPACES	± 1/32"	L/C	BSG-2688	CHARGE	
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