



"IMPORTANT"

INSTALLATION & ADJUSTMENTS OF INCINERATOR & CONTROLS

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

FOLLOW THIS PROCEDURE:

1. Spread a thin layer of high-temperature mortar on a plain stack section indicated by no pipes or port couplings.
2. Set top stack section (indicated by 2 hexagon ports @ 90°) on top of lower stack section and bolt together.
3. Spread a thin layer of high-temperature mortar on the base stack section indicated by a 3/4" coupling located 4 ft. from bottom of the stack and set both sections on top and bolt together.
3. Spread a thin layer of high-temperature mortar on top of afterburner.
4. Set three or four stacks at once on top of afterburner and bolt in place.
Note: Rotate stack so that 3/4" coupling lines up with thermocouple conduit.
5. If additional unlined stacks are supplied, install dilution spacers and set stacks.

After incinerator stack is set, the thermocouple probe must be connected. The probe is installed into the 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.

Electrical power can now be connected to the unit.

Electrical service is 230/208 volt, three phase, 60 Hz with a total maximum load of 30 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. Higher ampacity is needed with oil burners (40 amp). In some cases 480 volt, three phase is used. Check control panel label and electrical print in section 5 before connecting power to unit.



The gas or oil 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).
2. Oil
 - a. Connect oil supply line to fuel filter provided on unit.
 - b. Connect oil return line to remaining oil line.

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 an existing gas line do not tap off from the bottom of horizontal sections.

With oil fired units, the return oil line must be connected to the oil supply tank, enter the top of the tank and extend down to at least three inches (3") from the bottom of the tank.

The unit is ready for fire.

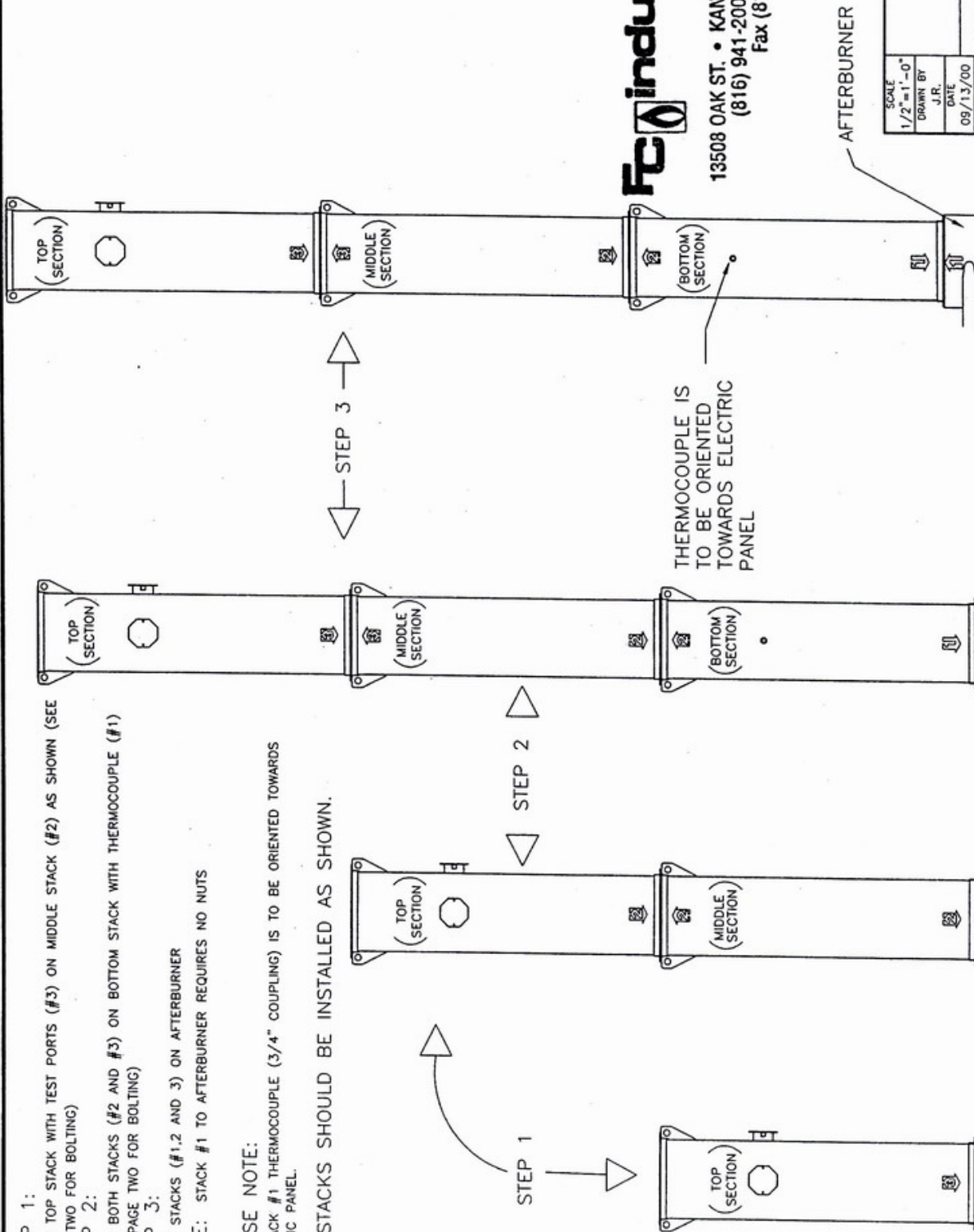
1. Slowly open gas valves.
2. Trip electrical breakers to "ON" position.
3. Manually energize the contactors for each individual (3) phase motor and check for proper rotation.
4. Push the control panel button marked "START". This will activate the preheat mode and turn on control chamber burners. The "START - STOP" buttons may have to be pushed several times to reset burners and purge gas line.
5. For oil units; open all valves in the oil supply line and open the air bleed on each individual oil burner as unit is started to purge the air
6. Immediately shut unit off and go to the cure-out instructions.

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.

- STEP 1:
PLACE TOP STACK WITH TEST PORTS (#3) ON MIDDLE STACK (#2) AS SHOWN (SEE PAGE TWO FOR BOLTING)
- STEP 2:
PLACE BOTH STACKS (#2 AND #3) ON BOTTOM STACK WITH THERMOCOUPLE (#1) (SEE PAGE TWO FOR BOLTING)
- STEP 3:
PLACE STACKS (#1,2 AND 3) 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.



FC industries, inc.

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

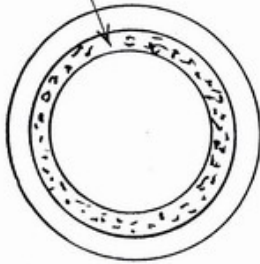
SCALE 1/2" = 1'-0"	DRAWN BY J.R.	DATE 09/13/00	CHECKED BY
thermtec SHERWOOD, OREGON 97140			
STACK ASSEMBLY DIAGRAM			
TOLERANCES UNLESS OTHERWISE SPECIFIED			CHANGE
± 1/32"			BSG-2644 SHEET 1 OF 2

PERSON	DATE	BY	DESCRIPTION
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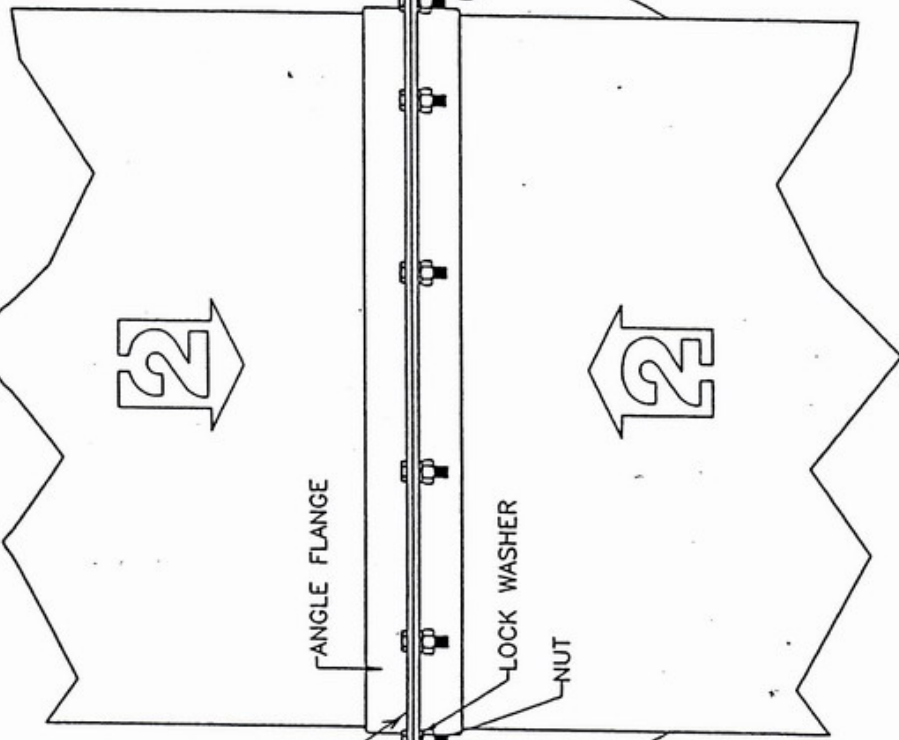
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TYPICAL CONNECTION

TOP VIEW OF STACK



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



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)

ANGLE FLANGE

BOLT

LOCK WASHER

NUT

LIFTING EYE

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SCALE	NTS		STACK ASSEMBLY DIAGRAM BSG-2644 SHEET 2 OF 2
DRAWN BY	J.R.		
DATE	09/13/00	TOLERANCES UNLESS NOTED ± 1/32"	
CHECKED BY		CHANGE	

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