

## RB-Boiler Series Essential Boiler Maintenance Work

In order to ensure long term trouble free boiler operation, please perform the maintenance work within the time intervals indicated below:

### 1. Re-tighten Electrical Terminals (After installation of boiler)

**⚠ WARNING** Repair must be performed by experienced personnel only. Ensure boiler is cold and drained and has no pressure or electricity.

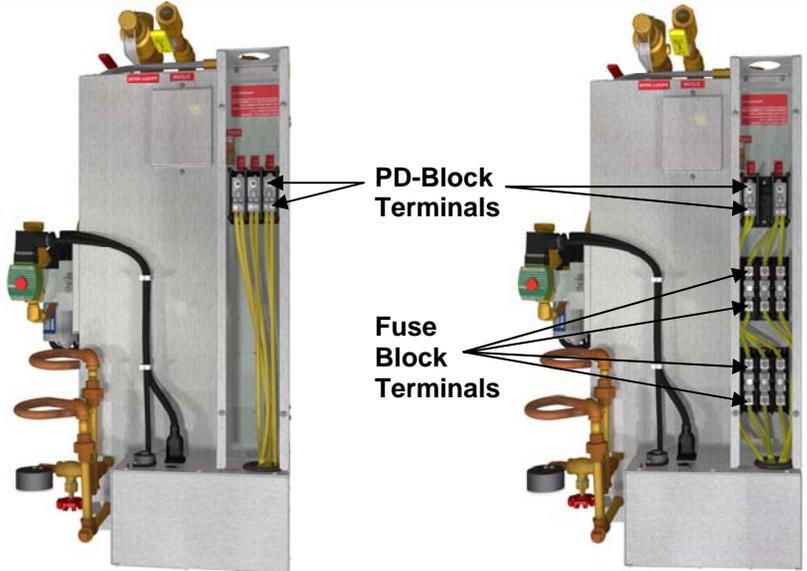


**Contactors  
Terminals**

Re-tighten the contactor(s) main terminals and (depending on the boiler model) the power distribution - and fuse block terminals.

Maximum Torque Ratings:

Component	Maximum Torque
50A-Contactor	25 in*lb
75A-Contactor	45 in*lb
PD-Block	25 in*lb
Fuse Block	45 in*lb



**PD-Block  
Terminals**

**Fuse  
Block  
Terminals**

### 2. Boiler Feed Water Requirements (During installation of boiler at customer's site)

As a minimum, ensure that a water softener is installed. The complete boiler feed water and boiler water properties as recommended by the American Boiler Manufacturer's Association (ABMA) are provided in the Instruction Manual. If significant corrosion is detected during the pressure vessel inspection (see Instruction Manual), contact a water conditioner company located in the area where the boiler is installed.

### 3. Gauge Glass Replacement (Every Six (6) Months; N/A for Bulls Eye Option #OPT-BULLSEYE)

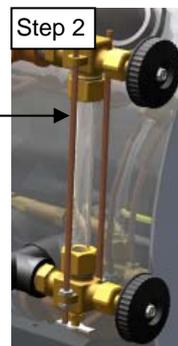
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**Step 1**

If installed, remove the gauge glass protector rods

Close gauge glass valves (Top and bottom)

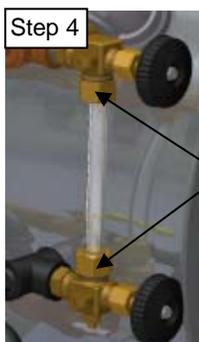


**Step 2**

Open drain valve on bottom fixture to drain glass

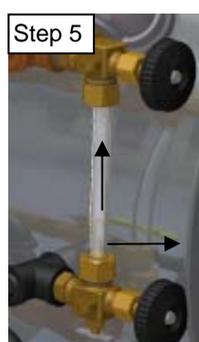


**Step 3**



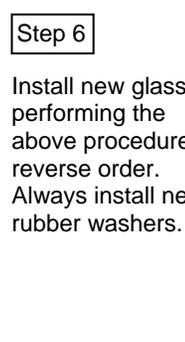
**Step 4**

Loosen nuts at top and bottom of glass



**Step 5**

Slide glass up, pull out on bottom of glass and remove.



**Step 6**

Install new glass by performing the above procedure in reverse order. Always install new rubber washers.

#### 4. Probe and Probe Baffle Cleaning (Every Six (6) Months)

### **⚠ WARNING**

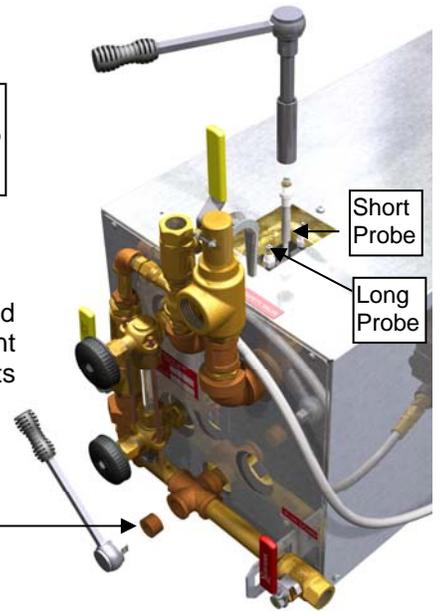
Repair must be performed by experienced personnel only. Ensure boiler is cold and drained and has no pressure or electricity.

#### **Step 1:**

Remove the water level probe cover, disconnect from each probe the wire and label it. Remove first the Short Probe and inspect the probe rod. If sediment has accumulated, use a stiff wire brush to remove it. Install the probe in its place in the shell. Repeat the above cleaning procedure for the other probes. Don't install the Long Probe yet.

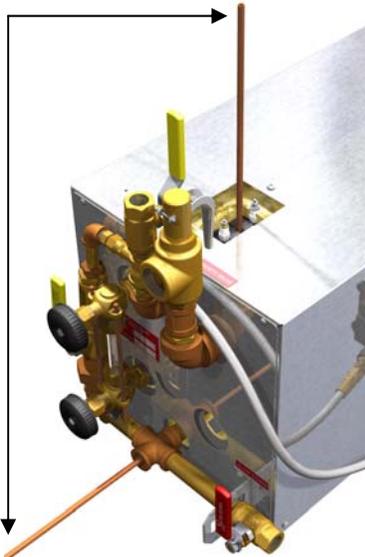
#### **Step 2:**

Remove the pipe plug from the boiler blowoff line.



#### **Step 3:**

Insert two (2) 1/4in OD copper tubes or any other soft rods through the Long Probe opening and through the boiler blowoff opening into the pressure vessel to remove sediments from the bottom of the probe baffle.



#### **Step 4:**

Put a flash light above the Long Probe opening and observe whether light is visible through the boiler blowoff opening. If no light is visible, then repeat inserting the copper tube through the Long Probe opening and pushing towards the bottom to remove further sediment from the probe baffle.

If there is a significant amount of sediment visible at the bottom of the pressure vessel, then the heating elements must be removed as shown in chapter 3.4 and the sediments scooped out through the element openings.

#### **Step 5:**

Install the Long Probe into the shell and connect all probe wires.

***Reimers***<sup>®</sup>  
***Electra Steam. Inc.***

P.O. Box 37  
4407 Martinsburg Pike  
Clear Brook, VA 22624  
USA

Phone: 540-662-3811  
Fax: 540-665-8101  
email: [Sales@reimersinc.com](mailto:Sales@reimersinc.com)  
web: [www.reimersinc.com](http://www.reimersinc.com)