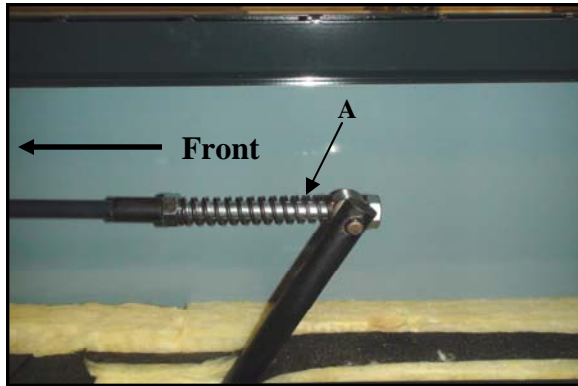
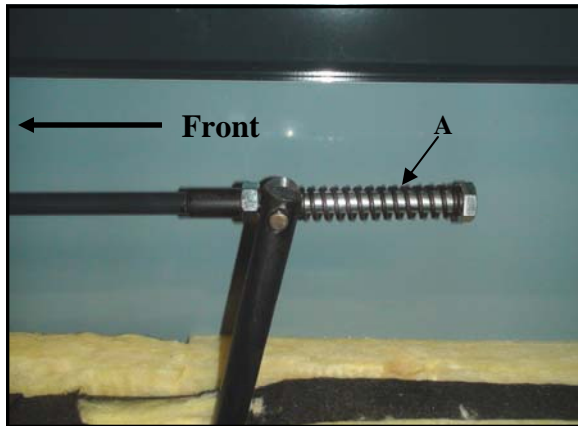


**Summary:** It has come to our attention that the by-pass handle assembly can be assembled incorrectly.



The picture on the left shows a correctly assembled by-pass handle assembly. The spring (A) needs to be in front of the by-pass door upright connecting rod.



The picture on the left shows an incorrect assembly. The spring (A) is on the back side of the by-pass door upright connecting rod. A by-pass rod assembled in this fashion will not close completely. You will notice the symptoms listed below.

Problems associated with the by-pass damper that is not fully closed include:

1. Sticking by-pass dampers.
2. Low stack temperatures during fan forced combustion.
3. Boilers emitting continuous visible smoke during forced combustion.
4. Over-heating.
5. Creosote in the chimney or in the smoke box.
6. Combustion blowers that will not shut off after the boiler has cooled.
7. Boilers shutting off before wood is completely burned.
8. Visible smoke from the chimney when the combustion blower is off.
9. High wood consumption.

To properly close the by-pass damper, the rod needs to be pushed in completely with pressure on the spring and the rod is locked in. You may hear the clang of the by-pass damper hitting the by-pass door opening, but does not guarantee the bypass door is closed fully and locked. You must, after lifting and pushing forward on the by-pass rod, ***lift the rod again*** and push inward against the tension of the spring and downward on the rod, locking the by-pass mechanism. If you do not feel as though you are compressing a spring, you have not lifted the by-pass rod before pressing inward a second time. The sensation of locking the by-pass damper will be obvious.