

Bulletin Number: UPB-110314

Date: 11/10/2014
Product: CuB
From: Technical Support
Title: LP Conversion Adjustments

If you are converting a CHB or CCB boiler from Natural to LP gas, when you turn on the boiler for the first time you may experience flame dropout when trying to adjust the low fire setting. The boiler is factory adjusted for Natural gas and the default manifold pressure settings are:

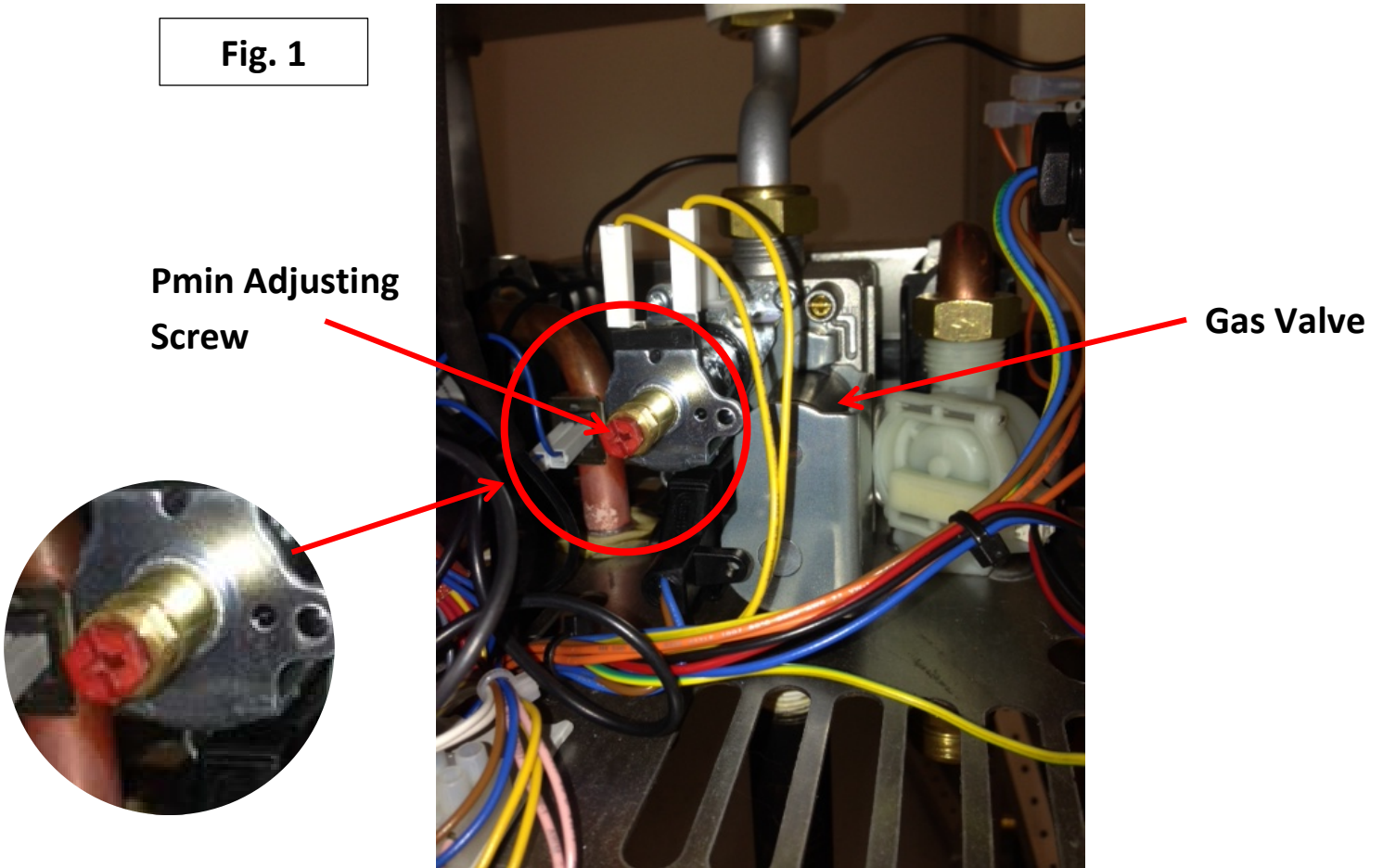
Natural Gas	CHB-100	CHB-130	CCB-150
Manifold Gas Pressure Maximum Input (Pmax)	5.22" w.c.	4.82" w.c.	5.22" w.c.
Manifold Gas Pressure Minimum Input (Pmin)	0.15" w.c.	0.15" w.c.	0.15" w.c.

Below are the new settings you will need to make:

LP Gas	CHB-100	CHB-130	CCB-150
Manifold Gas Pressure Maximum Input (Pmax)	10" w.c.	10" w.c.	10" w.c.
Manifold Gas Pressure Minimum Input (Pmin)	1.6" w.c.	1.6" w.c.	1.6" w.c.

Because the Pmin is factory set for 0.15" w.c., when you disconnect the ModuReg valve to simulate Low Fire, the flame may decrease in size enough that you lose flame rectification. If this occurs, simply increase the Pmin setting by turning the Red screw on the gas valve clockwise 1 /4 turn at a time until the boiler will sustain a flame at low fire, then set the manifold pressure according to the chart above for LP gas, see Fig 1. next page. Please refer to the LP Conversion Kit instructions for complete details.

Fig. 1



After making these adjustments your CO₂ and CO readings should be confirmed.

	CHB-130	CHB-130	CCB-150
	LP	LP	LP
CO ₂ at Pmax (%)	7.7 - 8.2	7.7 - 8.2	7.9 - 8.4
CO ₂ at Pmin (%)	4.4 - 5.1	4.4 - 5.1	4.8 - 5.5
CO at Max-Min	<400 ppm	<400 ppm	<400 ppm

Please call Technical Support at 800-253-7900 if you need further assistance.

Thank you,

A handwritten signature in cursive script that reads 'Don DeCarr'.

Don DeCarr
Hydronic Product Manager