



# GOLD CGi

## Series 2 Gas-Fired Water Boiler

# High Altitude Conversion Kit Instructions

2,000 to 10,000 feet

## Hazard definitions

The following terms are used throughout these Instructions to bring attention to the presence of hazards of various risk levels or to important information concerning the life of the product.

### DANGER

Indicates presence of hazards that will cause severe personal injury, death or substantial property damage.

### WARNING

Indicates presence of hazards that can cause severe personal injury, death or substantial property damage.

### CAUTION

Indicates presence of hazards that will or can cause minor personal injury or property damage.

### NOTICE

Indicates special instructions on installation, operation or maintenance that are important but not related to personal injury or property damage.

## Note to the installer

### DANGER

Failure to follow the limitations listed below will cause severe personal injury, death or substantial property damage.

- Do not use this kit to convert a CGi boiler from natural gas to propane gas or from propane gas to natural gas.
- Use only the kit specified for the CGi boiler being converted.

### WARNING

This conversion kit must only be installed by a Weil-McLain distributor or other qualified technician in accordance with these Instructions and all applicable codes and requirements of the authority having jurisdiction. Read these instructions completely before beginning the installation. If the information in these Instructions is not followed exactly, a fire, explosion, carbon monoxide emission or other hazardous conditions can result, causing severe personal injury, death or substantial property damage. The qualified technician performing this work assumes responsibility for this conversion.





## Conversion instructions

**WARNING**

For the boiler to operate correctly at high altitude, you must replace the main burner orifices and the air pressure switch with the parts supplied in the appropriate conversion kit (selected by altitude and boiler model). Failure to do so could result in severe personal injury, death or substantial property damage.

**WARNING**

For your safety, turn off electrical power supply and turn off external gas supply valve before attempting to work on the boiler. Failure to comply could result in severe personal injury, death or substantial property damage.

1. Using a 7/16" open-end wrench, remove the burner orifices from the manifold.
2. Apply a small amount of pipe dope to each of the new (conversion kit) orifices and install in the manifold using the 7/16" open-end wrench. Make sure the orifices are aligned correctly, not cross-threaded in the manifold tappings. Do not over-tighten orifices.

**WARNING**

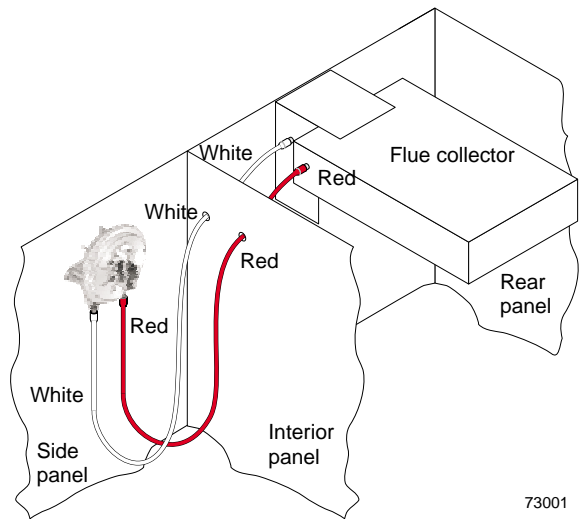
Use only pipe dope compatible with propane gas, even if boiler is to be operated on natural gas. Failure to comply could result in severe personal injury, death or substantial property damage.

**DANGER**

Refer to Table 1 and Table 2 on page 3 for the conversion kit components. Verify that you have the correct orifice size and quantity for the altitude and boiler model. You must replace all burner orifices with the correctly-sized conversion kit orifices. Failure to do so will result in severe personal injury, death or substantial property damage.

3. Affix "High Altitude Conversion Label" above boiler rating label. Affix "Consumer Protection Label" above the boiler CP label.
4. Remove tubing and wires from existing pressure switch. Remove pressure switch and replace with pressure switch in kit (Refer to Figure 1):
  - a. Reconnect white hose to left side barb on pressure switch.
  - b. Reconnect red hose to right side barb on pressure switch.
  - c. Reconnect the two red wires to the pressure switch.
5. Follow CGi Series 2 Boiler Manual "Start-up" and "Operation" procedures to assure the boiler is now operating properly after conversion parts are installed.

**Figure 1** Pressure switch connections



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## Parts

**Table 1** Natural gas conversion kit

Boiler model number	Altitude (feet)	Kit part number	Main burner orifices		Air pressure switch setting
			Qty	Size	
<b>CGi-25</b>	2,000 to 4,999	510-811-840	2	#45	1.22" w.c.
	5,000 to 6,999	510-811-841	2	#46	
	7,000 to 8,999	510-811-842	2	#47	
	9,000 to 10,000	510-811-843	2	#48	
<b>CGi-3</b>	2,000 to 4,999	510-811-845	2	#38	1.22" w.c.
	5,000 to 6,999	510-811-846	2	#40	
	7,000 to 8,999	510-811-847	2	#41	
	9,000 to 10,000	510-811-848	2	#43	
<b>CGi-4</b>	2,000 to 4,999	510-811-850	3	#38	0.95" w.c.
	5,000 to 6,999	510-811-851	3	#40	
	7,000 to 8,999	510-811-852	3	#41	
	9,000 to 10,000	510-811-853	3	#43	
<b>CGi-5</b>	2,000 to 4,999	510-811-855	4	#38	0.80" w.c.
	5,000 to 6,999	510-811-856	4	#40	
	7,000 to 8,999	510-811-857	4	#41	
	9,000 to 10,000	510-811-858	4	#43	
<b>CGi-6 CGi-7 CGi-8</b>	2,000 to 4,999	510-811-860	7	#38	0.60" w.c.
	5,000 to 6,999	510-811-861	7	#40	
	7,000 to 8,999	510-811-862	7	#41	
	9,000 to 10,000	510-811-863	7	#43	
<b>Note:</b> Each kit also includes (1) High Altitude Label, (1) Consumer Protection Label and (1) Instruction Sheet					

**Table 2** Propane gas conversion kit

Boiler model number	Altitude (feet)	Kit part number	Main burner orifices		Air pressure switch setting
			Qty	Size	
<b>CGi-25</b>	2,000 to 6,999	510-811-875	2	#55	1.22" w.c.
	7,000 to 10,000	510-811-876	2	#56	
<b>CGi-3</b>	2,000 to 6,999	510-811-878	2	#53	1.22" w.c.
	7,000 to 10,000	510-811-879	2	#54	
<b>CGi-4</b>	2,000 to 6,999	510-811-881	3	#53	0.95" w.c.
	7,000 to 10,000	510-811-882	3	#54	
<b>CGi-5</b>	2,000 to 6,999	510-811-884	4	#53	0.80" w.c.
	7,000 to 10,000	510-811-885	4	#54	
<b>CGi-6 CGi-7 CGi-8</b>	2,000 to 6,999	510-811-887	7	#53	0.60" w.c.
	7,000 to 10,000	510-811-888	7	#54	
<b>Note:</b> Each kit also includes (1) High Altitude Label, (1) Consumer Protection Label and (1) Instruction Sheet					



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