



## Gas-Fired Water Boilers

# High Altitude Conversion Kit Instructions

### Hazard definitions

**DANGER** Hazards that **will cause severe** personal injury, death or substantial property damage.

**WARNING** Hazards that **can cause severe** personal injury, death or substantial property damage.

**CAUTION** Hazards that **will or can cause minor** personal injury or property damage.

**NOTICE** Special instructions on installation, operation or maintenance that are important but not related to personal injury or property damage.

**WARNING** This conversion kit must only be installed by a **qualified heating installer/service 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 installer/service technician performing this work assumes responsibility for this conversion.

**DANGER** **INSTALLER — Failure to follow the limitations listed below will cause severe personal injury, death or substantial property damage. Read all instructions before installing.**

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

**NOTICE** When calling or writing about the boiler— Please have the boiler model number from the boiler rating label and the CP number from the boiler jacket.

**WARNING** **USER — Please read the following. Failure to comply could result in severe personal injury, death or substantial property damage.**

- **These instructions are for use only by your qualified heating installer/service technician.**
- Please see the User's Information Manual for your reference.
- We recommend regular service by a qualified service technician, at least annually.

Altitude (feet)	High Altitude Conversion Kit Contents					
	Natural gas			Propane gas		
	Kit part number	Main burner orifices		Kit part number	Main burner orifices	
		Qty	Size		Qty	Size
2,000 to 6,999	510811905WT	14	#49	510811908WT	14	#56
7,000 to 10,000	510811906WT	14	#51	510811909WT	14	#57

Note: Each kit includes Main Burner Orifices, (1) High Altitude Label and (1) Instruction Sheet.

## Conversion instructions

**DANGER**

Verify contents of kit are correct size, fuel type and elevation for your boiler. You must replace all burner orifices with the correctly-sized conversion kit orifices. Failure to install orifices that are correct size and fuel type will 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. Remove access panel.
2. On gas manifold, mark location of main burner with attached pilot assembly.
3. Remove main burner with attached pilot assembly from manifold. Remove all remaining burners.
4. Remove and discard all main burner orifices in gas manifold.
5. Apply a small amount of pipe dope to each of the new (conversion kit) orifices and install in the manifold. Make sure the orifices are aligned correctly, not cross-threaded in the manifold tapings.

**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.

6. Reinstall main burner with attached pilot assembly at location marked on gas manifold. Reinstall all remaining burners.

**DANGER**

When replacing burners, they must be seated firmly in slots in rear support with opening in burners facing up. Main burner orifice must inject down center of burner. Failure to properly seat burners will cause severe personal injury, death or substantial property damage.

7. Replace access panel.
8. Affix high altitude conversion label **above** boiler rating label (with the words "certified by").
9. Follow "Start-up" and "Checkout procedure" in the GWA Boiler Manual to assure the boiler is now operating properly after conversion parts are installed.

