

WATER HEATER
BULLETIN

Date: December 20, 1999

No. 137 Rev. 2

Subject: Gas Water Heater Conversion Policy

To: All Accounts

GAS WATER HEATER CONVERSION POLICY

All A.O. Smith Water Products Company's residential and commercial gas water heaters are designed certified by CSA or UL, under ANSI Standards for operation on one type of gas only, as indicated on the water heater's model number and rating plate.

A.O. Smith realizes that there may be certain situations where a field conversion may be necessary and in order to facilitate such a conversion, A. O. Smith complies with CSA or UL regulations ensuring that a field conversion be appropriately and safely completed.

An improper field conversion from one type of gas to another could cause potentially dangerous conditions that may cause an explosion or fire resulting in property damage, bodily injury or both.

A.O. SMITH WILL ONLY ALLOW THE CONVERSION OF GAS WATER HEATERS FROM LP GAS (PROPANE) TO NATURAL GAS. THE CONVERSION OF A GAS WATER HEATER FROM NATURAL GAS TO LP GAS (PROPANE) IS NOT ALLOWED UNDER ANY CIRCUMSTANCES.

A.O. Smith will provide kits as demand warrants through our Parts Department, phone no. 1-800-433-2545. Prices, dimensions and specifications are subject to change without notice.

Each conversion kit is to be installed by an A.O. Smith service agent or a gas utility serviceman in accordance with A.O. Smith's written instructions and all codes and requirements of the authority having jurisdiction. Failure to follow instructions could result in serious injury or property damage. The utility performing this work assumes responsibility for this conversion.

Changing the Input on Gas Water Heaters

The only changes to the input of a gas water heater allowed are:

- Adjustments to match that shown on the rating plate of the heater. The installation instructions supplied with the
 heater indicate if adjustments to input are a required procedure.
- Changes made as required to adjust the heater for proper operation at high altitude as determined by a qualified service technician. Service manuals include the proper procedure for adjusting heaters at high altitudes.

Conversion of Gas Water Heaters

The conversion of LP gas (Propane) to Natural gas is ONLY allowed providing:

• The conversion is done as part of a gas utility's program where propane appliances were installed anticipating the completion of natural gas service to the area. The conversion must be done under the direct supervision of the utility and by their service representatives.

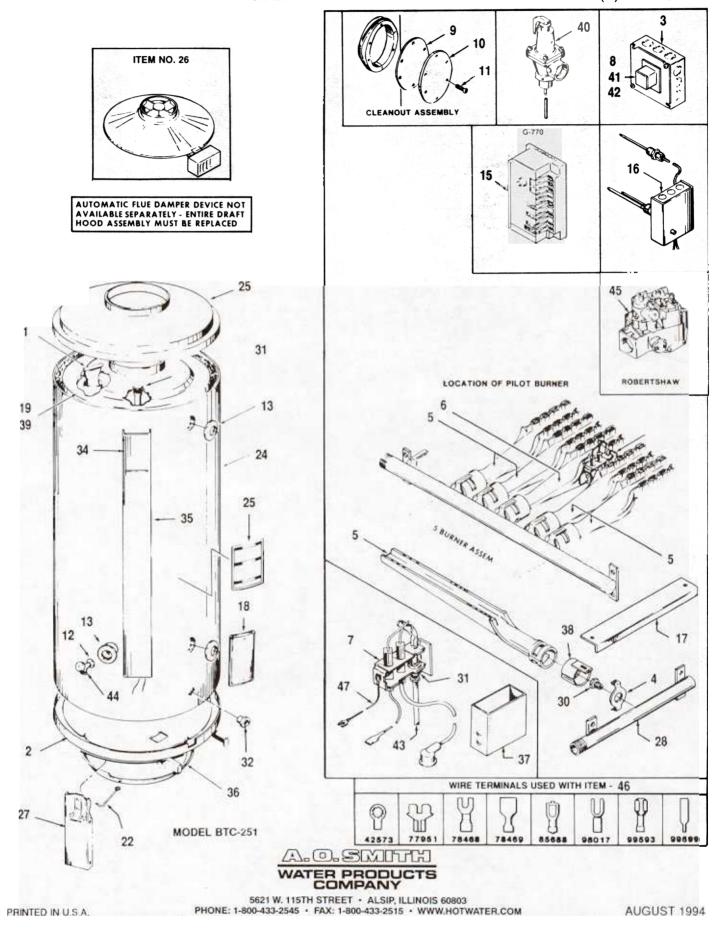
Claims of damage or injury arising from the unauthorized conversion of any A.O. Smith water heater not design certified for conversion will be the complete and total responsibility of the person or entity making the conversion.

If you have any questions regarding the above policy, please contact the A.O. Smith Parts Department at 1-800-433-2545 or our Technical Information Center at 1-800-527-1953.

^{*} This supersede all previous letters and field bulletins concerning residential and commercial water heater conversion.



MODEL BTC-251 STANDARD AND ASME MODELS (A) SERIES 930



item		Description	BTC-251
1	#	Baffle, Flue	192199-1
2		Base, Jacket	98188-503
3		Box, Junction	93558
4		Bracket, Main Burner Orifice	98044(5)
5 6		Burner, Main - With Pilot Bracket	192281(4) 192297(1)
7	#	Burner, Pilot:	192297(1)
•		Natural Gas	77944-12
8		Cap, Terminal End	98206
9		Gasket	99038
10		Plate, Pressure	99037
11 12		Screws, Self-Tapping	69852 20172-6
13		Collar (Inlet/Outlet)	95030-2
14	•	Collar (Relief Valve)	95201
15		Control, I.I.D.:	
		Natural Gas	190715
16 17		Controller, Dual - With E.C.O	170336 98185-2
18	#	Cover, Cleanout	38445-700 (2)
19	-	Cover, Inner - Includes Item 54	78392
20		Cover, Jacket	97062-500
21		Hood, Draft - Low Profile Vertical	191792-007
22	#	Hook, Hanger	98211(2)
23		*Тор	41560-56
24		Jacket, Outer	192353
25		Label - Lighting and Operating	190841-3
26	٠	Labels:	70754
		Cleanout	78754 42985
		Combination:	
		Natural Gas	191940-0
		Damper	190743-18
		Help Line	190600 170345
		Lime Tamer	78640
		Pilat	77860
		Relief Valve	191068
		Water Inlet	94518 94519
		Water Outlet	192374
27	#	Leg	190992(3)
28		Manifold	76244-3
29	*	Manual, Instruction	192351
30	#	Orifice, Main Burner: Natural Gas	76243-30(5)
31		Orifice, Pilot:	
		Natural Gas	6204
32		Port, Observation	98760 43817-38(3)
33	#	Rod, Anode	43617-36(3)
34		Upper	170240
35		Lower	170240
36		Shield, Floor	98228-1
37		Shield, Pilot	170840 170736(5)
38 39	*	Shutter, Air Tape, Sealer	6158
40		Temperature & Pressure Relief Valve	191617
41		Terminal Segment	98205
42		Transformer	99238
43		Tubing, 1/4" x 60" w/assorted fittings (cut to length)	1417-60
44		Valve, Drain	26273-6
45		Valve, Gas:	
		Natural Gas	192370
46	+*	Wire: (See illustration for terminals. Order as required.)	
		22 AWG Stranded, 250°C, Tan	78166
		18 AWG Stranded, 105°C, AWM & TEW	
		Black	78231
		Red	41976 78230
		Yellow	78229
		16 AWG Stranded, 105°C, AWM & TEW	
		Black	86578
		White	86580
		Green	41972
47		Wire, Ground	77948-6
	_	No	
	#	Items not illustrated. Quantities shown in parenthesis next to part number.	
		When ordering wire, indicate length required in inches.	
		(Example: 78231-100 equals 100" length).	

Part numbers $\frac{\text{underlined}}{\text{(Consider gas used in your area only.)}}$

Request parts from Product Service Division by giving all information such as model and series number, type of gas and specifications.