



Date: December 20, 1999
Subject: Gas Water Heater Conversion Policy
To: All Accounts

No. 137 Rev. 2

* This supersedes all previous letters and field bulletins concerning residential and commercial water heater conversion.

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:

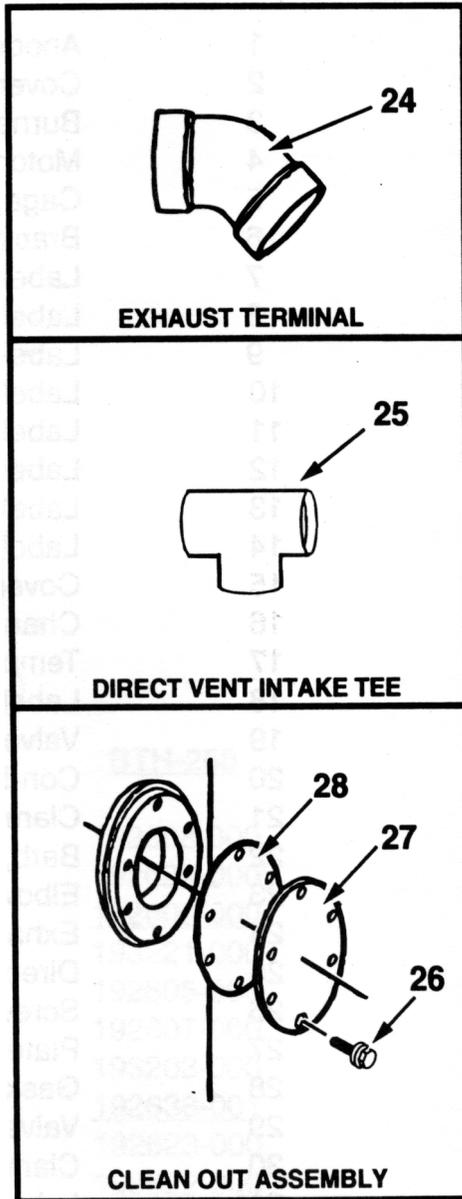
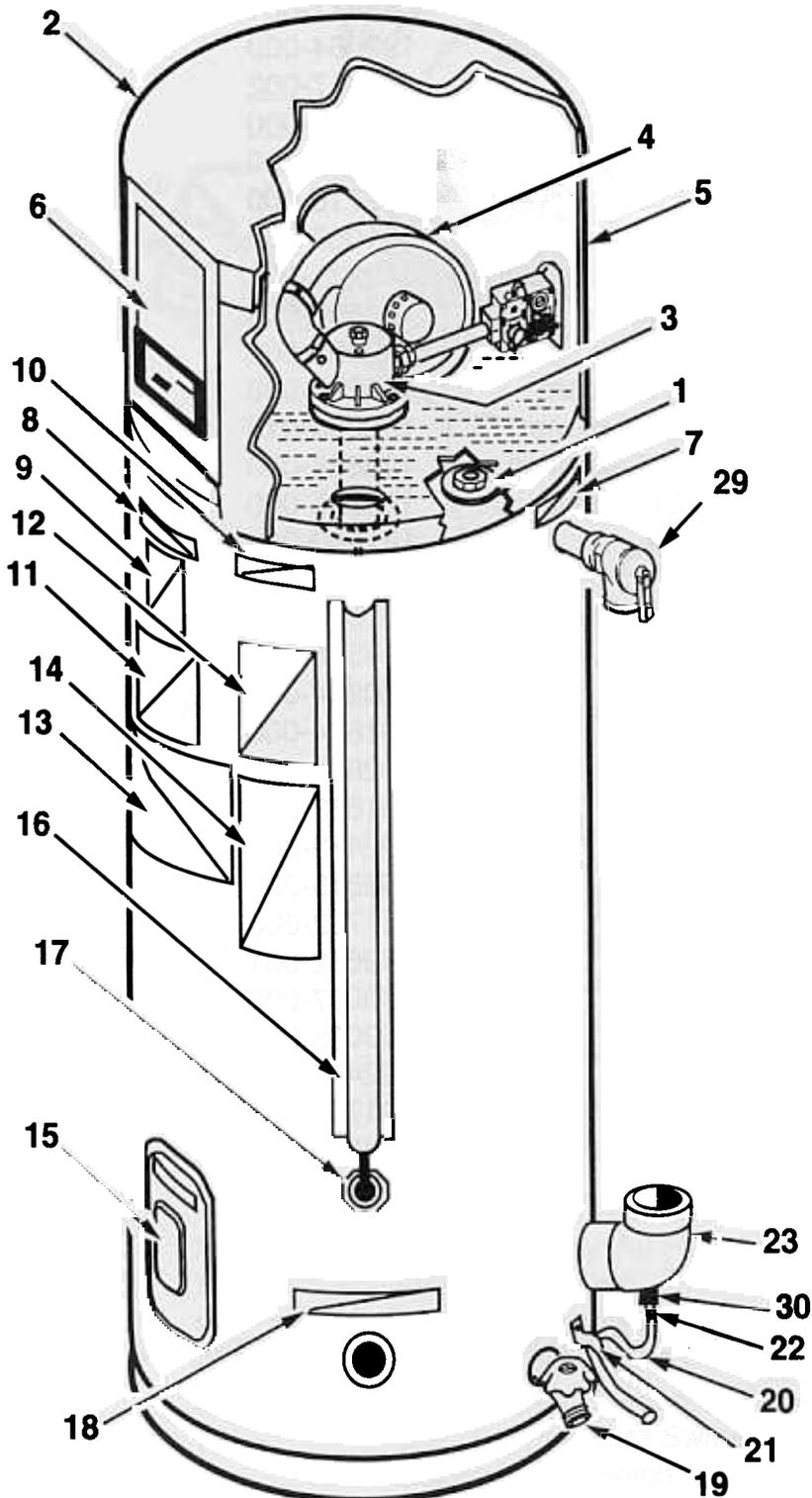
- The conversion is done as part of a gas utility's program where propane appliances were installed anticipating the completion of natural gas service to the area. The conversion must be done under the direct supervision of the utility and by their service representatives.

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.

A.O. SMITH WATER PRODUCTS CO., INC.
5621 W. 115TH STREET • ALSIP, ILLINOIS 60803
PHONE: 1-800-433-2545
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COMMERCIAL WATER HEATER PARTS LIST
CYCLONE XHE® MODEL BTH-250
SERIES: 962



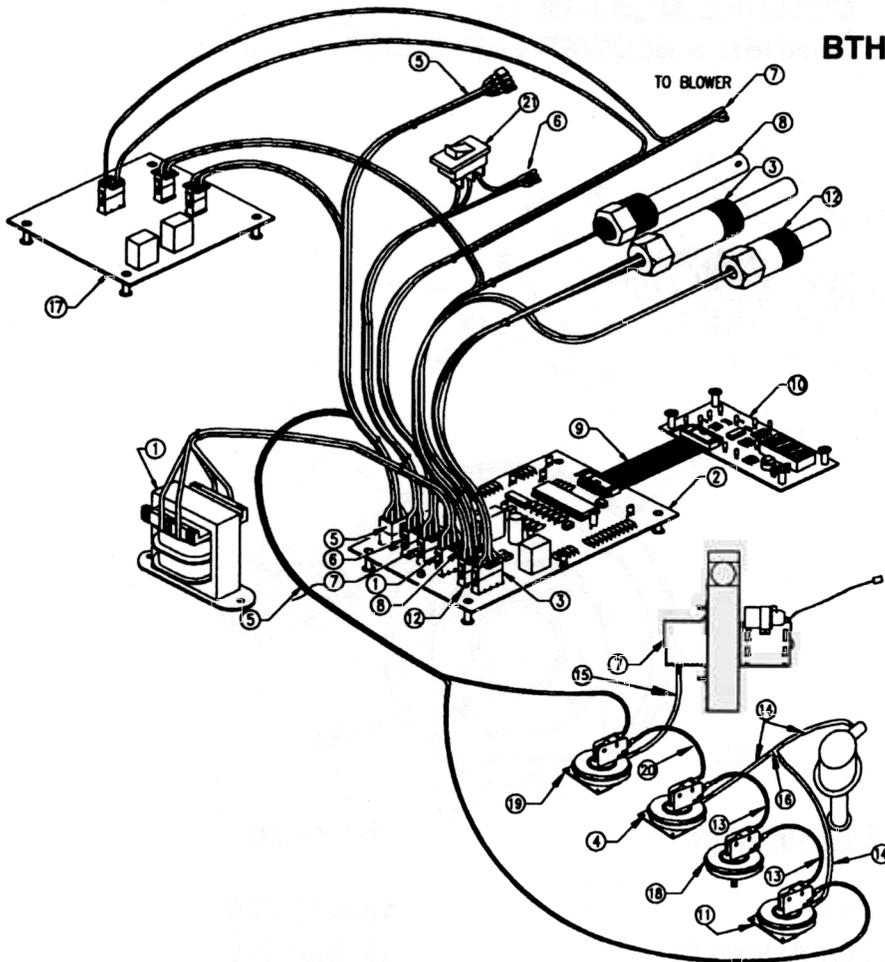
**CYCLONE XHE® MODEL
BTH-250 WATER HEATER PARTS LIST**

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>BTH-250</u>
1	Anode	043817-004
2	Cover, Jacket	192664-000
3	Burner Assembly	<u>192417-002</u>
4	Motor, Blower	<u>193203-000</u>
5	Cage, Housing	192420-000
6	Bracket, Control Panel	192716-000
7	Label, Relief Valve	191068-000
8	Label, A.O. Smith Commercial	043271-001
9	Label, 800 Help Line	190600-000
10	Label, Warning E.C.O.	192282-000
11	Label, Connection Diagram	193204-000
12	Label, Rating Specifications	190238-013
13	Label, Lighting and Operating	192888-000
14	Label, Warning,, Clearance	192895-000
15	Cover, Front	181260-000
16	Channel	095312-003
17	Temperature Probe, Lower	192609-000
18	Label, Water Inlet	094518-000
19	Valve, Drain	180904-001
20	Condensate Hose	181864-000
21	Clamp, Hose	192806-000
22	Barb, Hose	181863-000
23	Elbow, 90 Degree	192473-000
24	Exhaust Vent Terminal	192815-000
25	Direct Vent Intake Tee	181762-000
26	Screw, Self Tapping	069852-001
27	Plate, Pressure	099037-000
28	Gasket	099038-000
29	Valve, Relief	192467-000
30	Clamp, Hose, Nylon Snap	191794-001
31*	Label, Water Outlet	094519-000
32*	Label, Cleanout	078754-000

* Not Illustrated

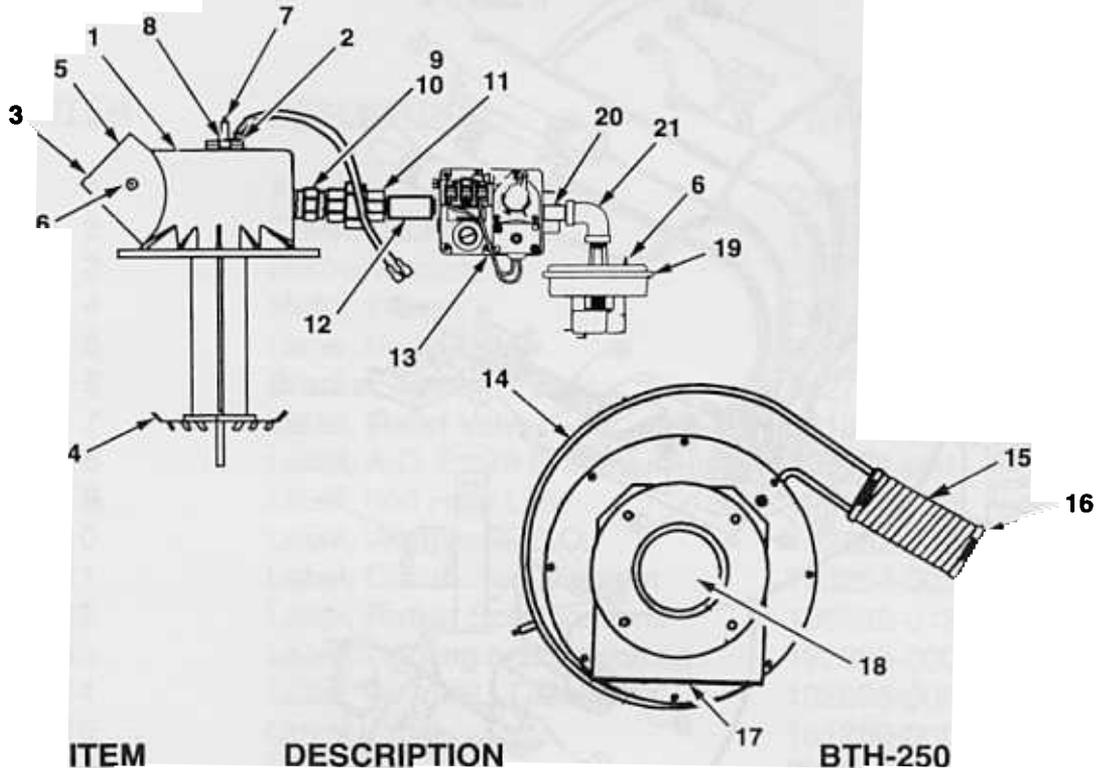
Part numbers underlined are recommended stock items for emergency replacement.

**CYCLONE XHE® MODEL
BTH-250 CONTROLS PARTS LIST**



<u>ITEM</u>	<u>DESCRIPTION</u>	<u>BTH-250</u>
1	Transformer	192608-000
2	Control Board	192624-000
3	E.C.O./Temperature Probe	192606-000
4	Blower Proving Switch	193221-000
5	Low Voltage Cable Assembly	192605-000
6	Line Voltage Cable Assembly	192607-000
7	Blower Assembly	193203-000
8	Igniter Assembly	192638-001
9	Cable to Control Display Board	192623-000
10	Board, Display Panel	192622-000
11	Blocked Outlet Proving Switch	192946-000
12	Temperature Probe, Lower	192609-000
13	Wire Assembly, Air Flow Switch	192802-001
14	Tubing, Pressure	192024-002
15	Tubing, Pressure	192024-006
16	Tubing, Connector	192152-000
17	Blower Speed Reducing Panel	192987-000
18	Low Gas Pressure Switch	193221-000
19	Blocked Inlet Switch	192947-000
20	Wire Assembly, Air Flow Switch	192802-000
21	Switch-On/Off	192699-000

**CYCLONE XHE® MODEL
BTH-250 BURNER & BLOWER PARTS LIST**



ITEM	DESCRIPTION	BTH-250
1	Burner	192416-000
2	Igniter Assembly	<u>192638-000</u>
3	Rivet, Blind, 1/8" Dia 316 SS	192730-000
4	Air Deflector	192414-000
5	Air Restrictor	192450-002
6	Barb, Hose, 3/16"	192800-000
7	Flame Rod Assembly	<u>192478-000</u>
8	Screw, Self Tapping #8-18	192698-000
9	Orifice	192477-002
10	Orifice Holder	192447-000
11	Union, Pipe	095515-000
12	Nipple, 3/4 Pipe	085040-018
13	Valve, Gas	<u>192454-000</u>
14	Motor, Blower	193203-000
15	Tube, Air	192469-000
16	Clamp, 3"	192696-000
17	Bracket, Blower Mounting	192482-000
18	Flange Assembly, Inlet	192886-000
19	Low Gas Pressure Switch	193222-000
	(Reference: See Controls Drawing & Parts List)	
20	Nipple, 1/8", Pipe	192948-000
21	Elbow, 1/8", 90°	192949-000

Part numbers underlined are recommended stock items for emergency replacement.