



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
FAX: 1-800-433-2515 • www.hotwater.com

A.O. SMITH

WATER PRODUCTS COMPANY

PSD-3-441

GAS

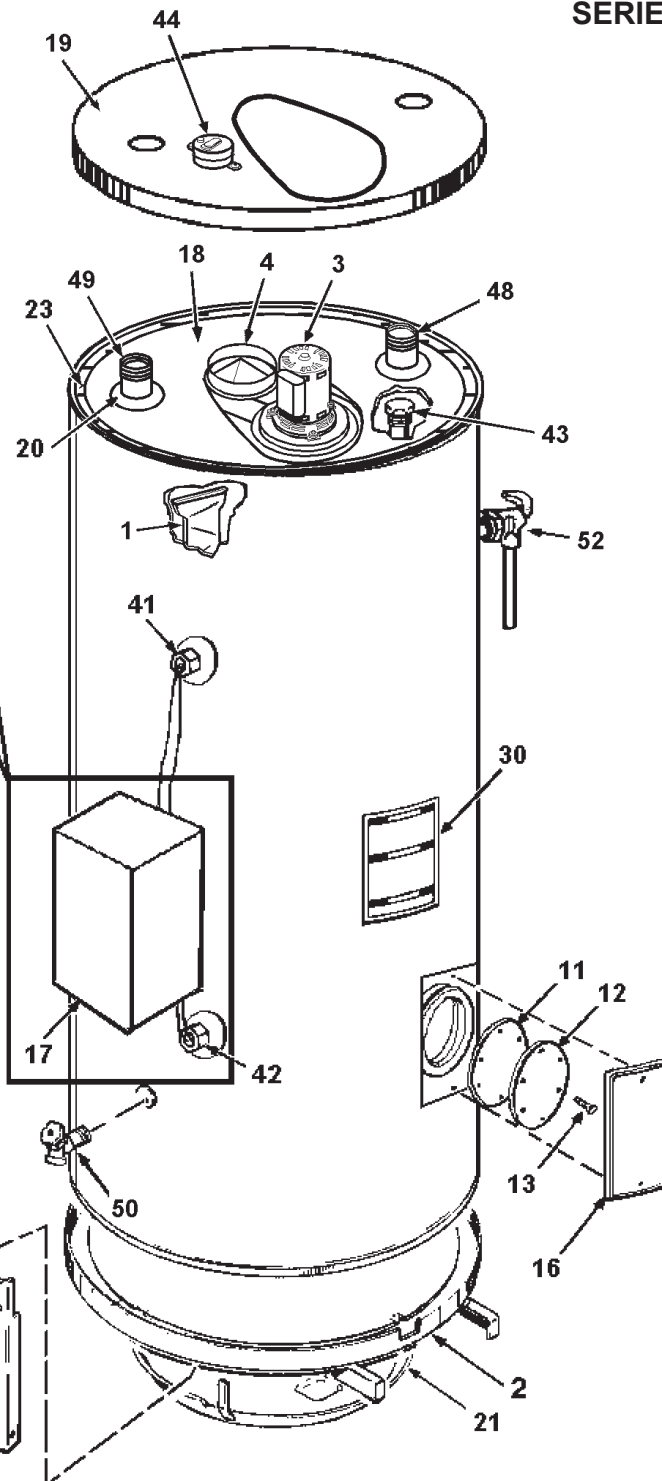
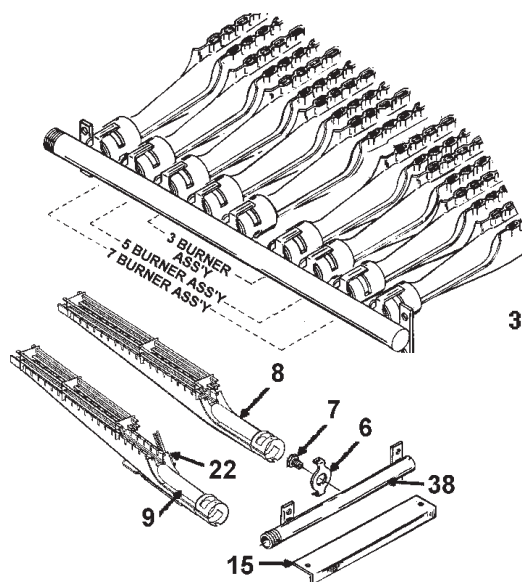
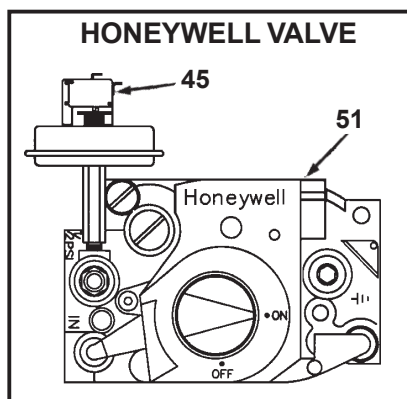
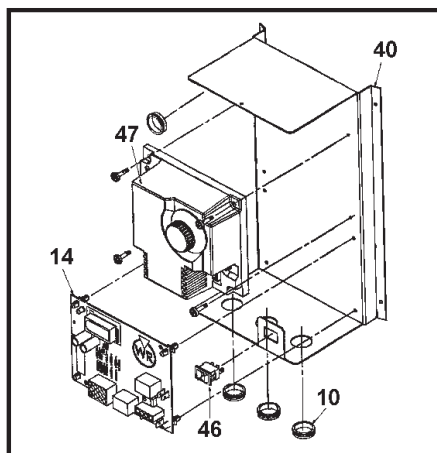
COMMERCIAL TANK TYPE WATER HEATER

REPLACEMENT PARTS LIST

MODELS BTN 120 thru 400/A:

STANDARD AND ASME (A)

SERIES 104



Item	Description	BTN 120	BTN 154	BTN 180	BTN 199	BTN 200/A
1	Baffle, Flue	193595-1	194705-1	192199-3	192199-3	192199-3
2	Base, Jacket Assembly	194518	194556	194556	194556	194556
	Blower Assembly					
3	Blower	194408	194408	194408	194408	194408
4	Outlet Assembly, Exhaust	194424	194424	194424	194424	194424
5	Screw, TEK	194613	194613	194613	194613	194613
6	Burner, Orifice Bracket, Main	98044	98044	98044	98044	98044
7	Burner Orifice, Main	76243-32	76243-35	76243-33	76243-32	76243-32
8	Burner Assembly, Main	<u>194611</u>	<u>194611</u>	<u>194611</u>	<u>194611</u>	<u>194611</u>
9	Burner w/Ignitor Bracket, Main	194383	194383	194383	194383	194383
10	Bushing	193404	193404	193404	193404	193404
	Cleanout Assembly					
11	Gasket	<u>99038</u>	<u>99038</u>	<u>99038</u>	<u>99038</u>	<u>99038</u>
12	Pressure Plate	99037	99037	99037	99037	99037
#13	Screws, Machine	69852-1(6)	69852-1(6)	69852-1(6)	69852-1(6)	69852-1(6)
14	Control, Ignition Board	<u>194392</u>	<u>194392</u>	<u>194392</u>	<u>194392</u>	<u>194392</u>
15	Cover, Burner	98185	921185-3	98185-3	98185-3	98185-3
16	Cover, Cleanout	181260	181260	181260	181260	181260
17	Cover, Control Box	194395	194395	194395	194395	194395
18	Cover, Inner	194514	194388-6	194388-3	194388-3	194388-3
19	Cover, Jacket	194523	194389	194389	194389	194389
20	Collar, Pipe Nipple	74060	74060	74060	74060	74060
21	Floor Shield Assembly	193864	193984	193864	193864	193984
22	Ignitor, Flame Sensor	<u>194405</u>	<u>194405</u>	<u>194405</u>	<u>194405</u>	<u>194405</u>
23	Insulation, Top	194439	194439	194439	194439	194439
*24	Cleanout	193914	193914	193914	193914	193914
*25	Flammable Vapors	192872	192872	192872	192872	192872
*26	Help Line	190600	190600	190600	190600	190600
*27	Instruction	170345	170345	170345	170345	170345
*28	Instruction, Bilingual	193912	193912	193912	193912	193912
*29	Instruction, ECO	192282-1	192282-1	192282-1	192282-1	192282-1
30	L&O Label	194401	194401	194401	194401	194401
*31	Master Fit	193859	193859	193859	193859	193859
*32	Relief Valve	200042	200042	200042	200042	200042
*33	Ultra Coat	193860	193860	193860	193860	193860
*34	Water Inlet	161040	161040	161040	161040	161040
*35	Water Outlet	161040-1	161040-1	161040-1	161040-1	161040-1
*36	Wiring Diagram	194400	194400	194400	194400	194400
37	Leg	194115	194115	194115	194115	194115
38	Manifold	194516	194535	194535	194535	194535
*39	Manual, Instruction	194758	194758	194758	194758	194758
40	Plate, Mounting	194391	194391	194391	194391	194391
41	Probe/ECO, Upper Thermostat	<u>194396</u>	<u>194396</u>	<u>194396</u>	<u>194396</u>	<u>194396</u>
42	Probe/Lower Thermostat	<u>194397</u>	<u>194397</u>	<u>194397</u>	<u>194397</u>	<u>194397</u>
43	Rod, Anode	180618-42	180618-42	180618-42	180618-42	180618-42
44	Switch, Blower/Prover	<u>194411-3</u>	<u>194411</u>	<u>194411s</u>	<u>194411-3</u>	<u>194411-3</u>
45	Switch, Low Gas Pressure	<u>191149-5</u>	<u>191149-5</u>	<u>191149-5</u>	<u>191149-5</u>	<u>191149-5</u>
46	Switch, Off/On	193243	193243	193243	193243	193243
47	Thermostat, Digital	<u>194393</u>	<u>194393</u>	<u>194393</u>	<u>194393</u>	<u>194393</u>
48	Tube, Inlet	192626-1	192626-1	192626-1	192626-1	192626-1
49	Tube, Outlet	192627-1	192627-1	192627-1	192627-1	192627-1
50	Valve, Drain	<u>26273-6</u>	<u>26273-6</u>	<u>26273-6</u>	<u>26273-6</u>	<u>26273-6</u>
51	Valve, Gas - Natural	<u>194536-1</u>	<u>194536-1</u>	<u>194536-1</u>	<u>194536-1</u>	<u>194536-1</u>
52	Valve, T&P	<u>192467</u>	<u>192467</u>	<u>192467</u>	<u>192467</u>	<u>192467</u>
*53	Wire Harness - Control	194545	194545	194545	194545	194545
*54	Wire Harness - Power	194398	194398	194398	194398	194398

Item	Description	BTN 250/A	BTN 275/A	BTN 310/A	BTN 366/A	BTN 400/A
1	Baffle, Flue	192199-4	192199-3	192199-3	192199-3	194705
2	Base, Jacket Assembly	194556	194556	194556	194385	194671
	Blower Assembly:					
3	Blower	194408	194408	194408	194408	194408
4	Outlet Assembly, Exhaust	194424	194424	194424	194424	194424
5	Screw, TEK	194613	194613	194613	194613	194613
6	Burner, Orifice Bracket, Main	98044	98044	98044	98044	98044
7	Burner Orifice, Main	76243-30	76243-32	76243-32	76243-30	76243-29
8	Burner Assembly, Main	<u>194611</u>	<u>194611</u>	<u>194611</u>	<u>194611</u>	<u>194760</u>
9	Burner w/Ignitor Bracket, Main	194383	194383	194383	194383	194383
10	Bushing	193404	193404	193404	193404	193404
	CLEANOUT Assembly:					
11	Gasket	<u>99038</u>	<u>99038</u>	<u>99038</u>	<u>99038</u>	<u>99038</u>
12	Pressure Plate	99037	99037	99037	99037	99037
#13	Screws, Machine	69852-1(6)	69852-1(6)	69852-1(6)	69852-1(6)	69852-1(6)
14	Control, Ignition Assembly	<u>194392</u>	<u>194392</u>	<u>194392</u>	<u>194392</u>	<u>194392</u>
15	Cover, Burner	98185-3	98185-3	98185-3	98185-4	19411
16	Cover, Cleanout	181260	181260	181260	181260	181260
17	Cover, Control Box	194395	194395	194395	194395	194395
18	Cover, Inner	<u>194388-4</u>	<u>194388-4</u>	<u>194388-4</u>	<u>194388</u>	<u>194388</u>
19	Cover, Jacket	194389	194389	194389	194389	194389
20	Collar, Pipe Nipple	74060	74060	74060	74060	74060
21	Floor Shield Assembly	193984	193984	193984	193984	193984
22	Ignitor, Flame Sensor	<u>194405</u>	<u>194405</u>	<u>194405</u>	<u>194405</u>	<u>194405</u>
23	Insulation, Top	194439	194439	194439	194439	194439
	LABELS:					
*24	Cleanout	193914	193914	193914	193914	193914
*25	Flammable Vapors	192872	192872	192872	192872	192872
*26	Help Line	190600	190600	190600	190600	190600
*27	Instruction	170345	170345	170345	170345	170345
*28	Instruction, Bilingual	193912	193912	193912	193912	193912
*29	Instruction, ECO	192282-1	192282-1	192282-1	192282-1	192282-1
30	L&O Label	194401	194401	194401	194401	194401
*31	Master Fit	193859	193859	193859	193859	193859
*32	Relief Valve	200042	200042	200042	200042	200042
*33	Ultra Coat	193860	193860	193860	193860	193860
*34	Water Inlet	161040	161040	161040	161040	161040
*35	Water Outlet	161040-1	161040-1	161040-1	161040-1	161040-1
*36	Wiring Diagram	194400	194400	194400	194400	194400
37	Leg	194115	194115	194115	194115	194115
38	Manifold	194535	194535	194535	194386	194386
*39	Manual, Instruction	194758	194758	194758	194758	194758
40	Plate, Mounting	194391	194391	194391	194391	194391
41	Probe/ECO, Upper Thermostat	<u>194396</u>	<u>194396</u>	<u>194396</u>	<u>194396</u>	<u>194396</u>
42	Probe/Lower Thermostat	<u>194397</u>	<u>194397</u>	<u>194397</u>	<u>194397</u>	<u>194397</u>
43	Rod, Anode	180618-42	180618-42	180618-42	180618-42	180618-42
44	Switch, Blower Prover	<u>194411-5</u>	<u>194411-4</u>	<u>194411-4</u>	<u>194411-3</u>	<u>194411</u>
45	Switch, Low Gas Pressure	<u>191149-5</u>	<u>191149-5</u>	<u>191149-5</u>	<u>191149-5</u>	<u>191149-5</u>
46	Switch, Off/On	193243	193243	193243	193243	193243
47	Thermostat, Digital	194393	194393	194393	194393	194393
48	Tube, Inlet	192626-1	192626-1	192626-1	192626-1	192626-1
49	Tube, Outlet	<u>192627-1</u>	<u>192627-1</u>	<u>192627-1</u>	<u>192627-1</u>	<u>192627-1</u>
50	Valve, Drain	<u>26273-6</u>	<u>26273-6</u>	<u>26273-6</u>	<u>26273-6</u>	<u>26273-6</u>
51	Valve, Gas - Natural	<u>194536-1</u>	<u>194536-1</u>	<u>194536</u>	<u>194536</u>	<u>194536</u>
52	Valve, T&P	<u>192467</u>	<u>192467</u>	<u>192467</u>	<u>192467</u>	<u>192467</u>
*53	Wire Harness - Control	194545	194545	194545	194545	194545
*54	Wire Harness - Power	194398	194398	194398	194398	194398

*Items not illustrated. # Quantities shown in parenthesis next to part number. TBD To be determined.

Part numbers underlined are recommended stock items for emergency replacement. (Consider gas used in your area only).

Requests from PSD by giving all information such as model and series number, type of gas and specifications.

A.O. SMITH
WATER PRODUCTS
COMPANY



A.O. SMITH WATER PRODUCTS CO., INC.
5621 W. 115TH STREET • ALSIP, ILLINOIS 60803
PHONE: 1-800-433-2545 • FAX: 1-800-433-2515
Website: www.hotwater.com/parts • EMAIL: parts@hotwater.com