

TO: All Dealer Principals, Service Managers and Parts Managers

Subject: Alkota V550 Water Heater

Number: SB 263 **DATE:** 05/06/2013

NOTICE



Follow recommended safety practices while performing all work. Refer to the Vactor/Guzzler Safety Manual for additional information.

This manual is available at: www.vactor.com

REVISED 5-6-2013

PARTS AVAILABILITY: 04/15/2013

Wiring schematic updated.

	13-02G-5697
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PURPOSE:

Some Vactor units equipped with the Alkota 400,000 BTU water heater were not equipped with an oil primary control. In the event of ignition failure, fuel can accumulate in the water heater combustion chamber. The attached Alkota Service Bulletin details the repair procedure.

WARRANTY COVERAGE:

Refer to last page of this bulletin for warranty instructions.

UNITS TO SERVICE:

SPECIAL TOOLS:

Refer to the attached Alkota Service Bulletin

PARTS REQUIRED:

Vactor	Vactor
12-07V-13235	13-01V-13639
12-08V-13282	13-01V-13641
12-08V-13317	13-02V-13642
12-09V-13388	13-02V-13667
12-10V-13395	13-02V-13692
12-11V-13487	13-02V-13694
12-11V-13500	13-02V-13711
12-11V-13517	Guzzler
12-12V-13532	12-10G-5592
12-12V-13560	12-11G-5623
12-12V-13562	12-12G-5661

Part No.	Qty.	Description
49830AL-30	1	BURNER KIT

PROCEDURE:

1. Shut down the unit on level ground, set the brake and follow lockout/tagout procedures.
2. Perform all the steps detailed in the attached Alkota Service Bulletin.
3. Verify correct operation and service, as required.
4. Complete and submit the attached warranty information.



Warranty Coverage and Claim Submittal

The ESG dealer should submit a claim for warranty.

Use the following information when submitting a warranty claim:

CAUSAL PART: **49785-30**

To create the FAULT CODE, click **BOILER (21)**, click **OTHER (024)**, and then click **PRIMARY CONTROL (0725)**.

In the FAULT FOUND drop down list, select **DESIGN UPGRADE**.

In the CAUSED BY drop down list, select **FACTORY UPGRADE**.

To enter the Service procedures, perform the following:

For INSTALLED PART # **49830AL-30**, select **BOILER (21)**, select **OTHER (024)**, select **PRIMARY CONTROL (0725)**, and then select **49830AL-30 (30)**.

Standard Repair Time (SRT) of **4 hrs** is allowed.

Alkota Cleaning Systems, Inc.

105 Broad Street
Alcester, South Dakota 57001
(605) 934-2222

Service Bulletin

03-25-2013

To: Users of model V550 water heaters

Purpose: In the event of ignition failure, fuel can accumulate in the water heater combustion chamber. An oil primary control can be added to eliminate this issue.

Units to service: All V550 models with a serial number prior to PL27945

Notice: Follow recommended safety practices while performing all service work. Refer to the service manual for additional information.

See following pages for parts and procedures.

REQUIRED TOOLS

Long Phillip Screwdriver



Wire Stripper



Pliers



Buchanon Crimping Plier



Side Cutter



Wire Terminal Crimper / Cutter



REQUIRED TOOLS

3/8" & 9/16" Wrenches



- 3/8" wrench or socket to remove fasteners on hinged panel.
- Phillips screw driver to open burner junction box and to open cord clamps.
- Pliers to remove splice caps & insulators in the burner junction box.
- 9/16" wrench to remove the (3) serrated nuts holding the burner in place.

BURNER REPLACEMENT STEPS FOR V550 REWORK

1. Remove control box cover.



2. Identify 12/2 cord from control box to burner junction box.

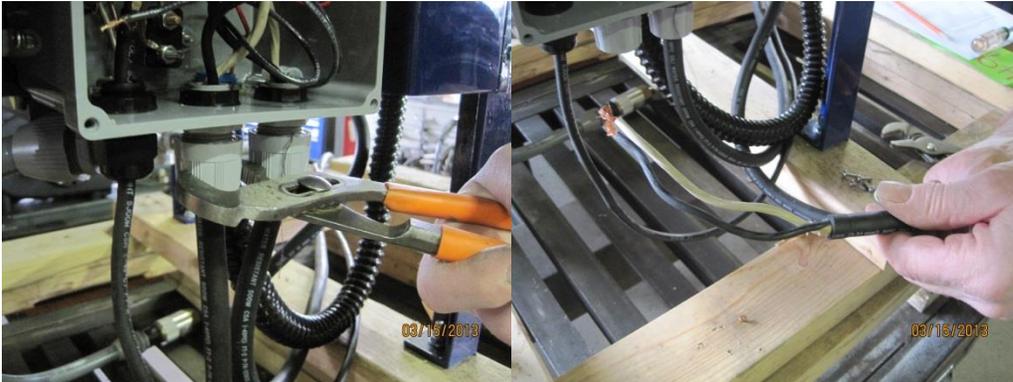


3. Disconnect wire of 12/2 cord in the control box.



BURNER REPLACEMENT STEPS FOR V550 REWORK

4. Remove the 12/2 cord from the box.



5. Place cover back on the box.

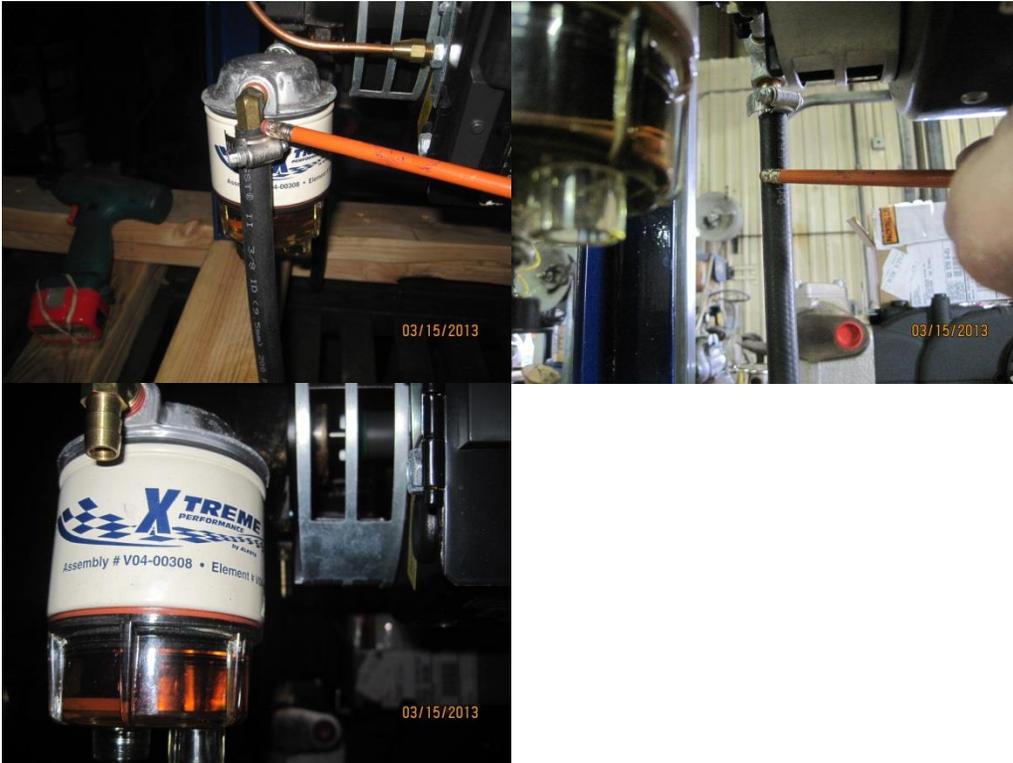


6. Swing open control box.



BURNER REPLACEMENT STEPS FOR V550 REWORK

7. Disconnect both fuel lines from the burner.



8. Loosen (3) serrated nuts holding the burner to the frame.



BURNER REPLACEMENT STEPS FOR V550 REWORK

9. Remove the burner. Note: Some models may require further disassembly of wiring and plumbing to remove burner. If power supply cord is removed, insulate hot lead to prevent accidental grounding.



10. Install the new burner to the same studs and in the same orientation.



11. Re-install fuel lines. Reassemble plumbing as necessary.



BURNER REPLACEMENT STEPS FOR V550 REWORK

12. Close hinged panel and open control box.

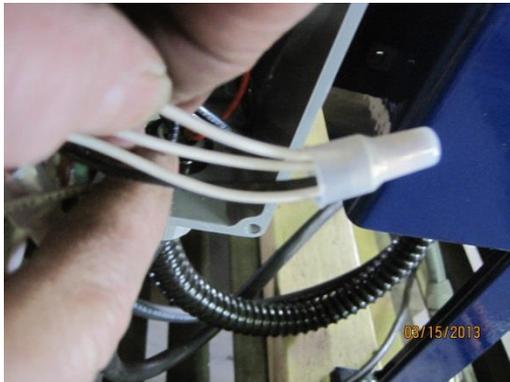


13. Install the burner cord through the same hole in the control box using the same water tight connector. Also, reinstall wiring that may have been previously removed.



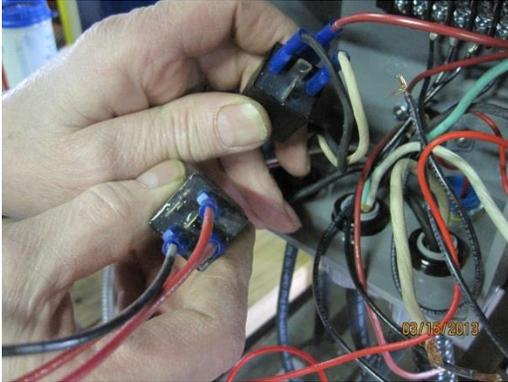
CONTROL BOX REWIRING

1. Remove all Buchanan splice caps and insulators except the 3 white wires from the lights and the black wire from the hour meter.



BURNER REPLACEMENT STEPS FOR V550 REWORK

2. Remove the relay that is not connected to the 16/2 cord.



3. Remove all black wires from terminal strip except for lights and hour meter.
4. Remove all wires from burner switch and circuit breaker that are not 10 AWG. Discard these wires.
5. Rewire per schematic
 - A. Connect black wire from the burner cord to the terminal strip.



- B. Connect black wire from power cord (12/2) to the terminal strip.

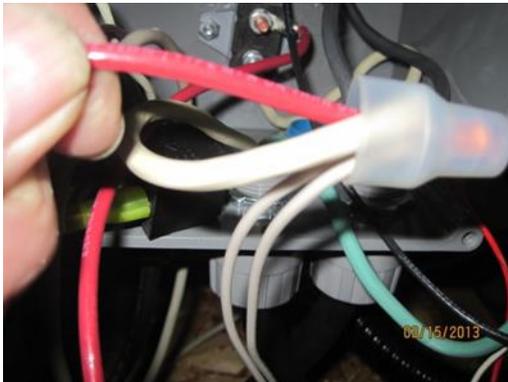


BURNER REPLACEMENT STEPS FOR V550 REWORK

- C. Connect the green wire from the burner cord to the white wire from the temperature control and the white wire from the fuel light.



- D. Connect the white wire from the burner cord to:
1. Red wire from #87 on the burner relay
 2. White wire from P on the hour meter
 3. White wire from I on the hour meter



- E. Connect red 10 AWG wire from circuit breaker silver post to burner switch.



BURNER REPLACEMENT STEPS FOR V550 REWORK

- F. Connect red 10 AWG wire from burner switch to the white wire from the pressure switch and red 10 AWG wire from the #30 relay and the white wire from the power light.

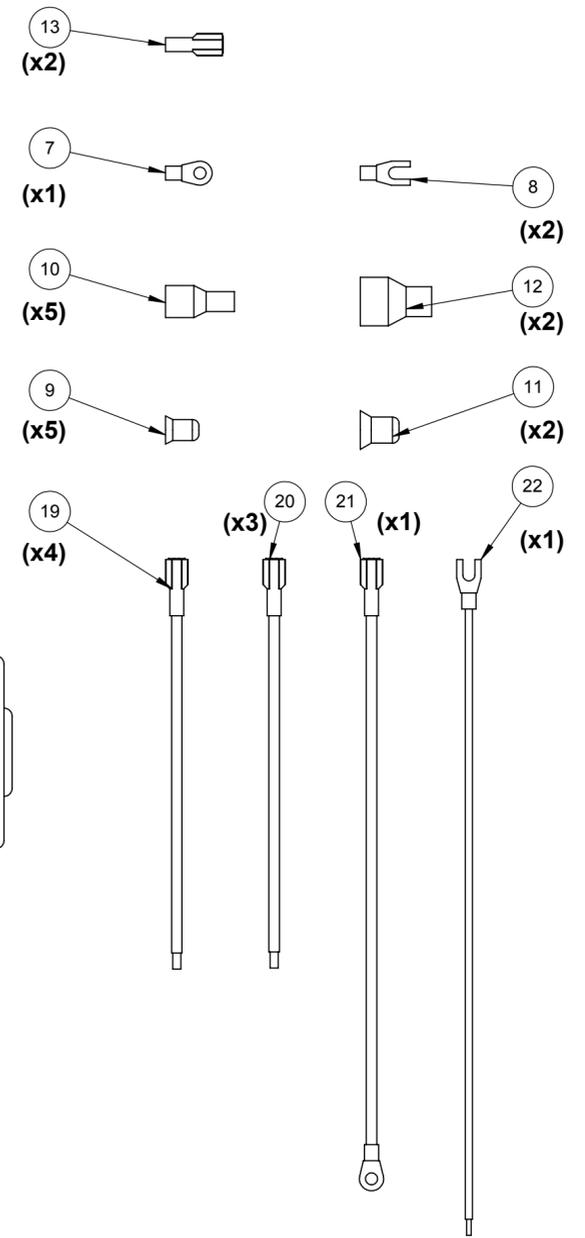
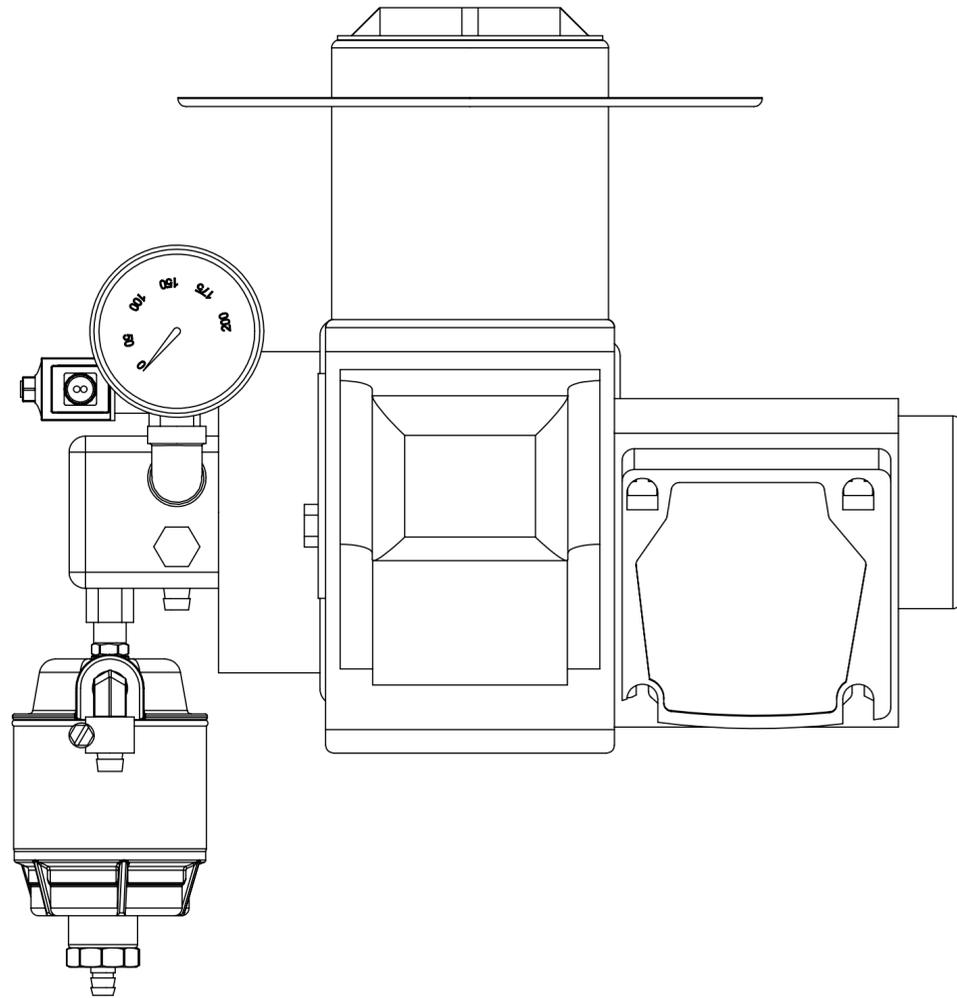
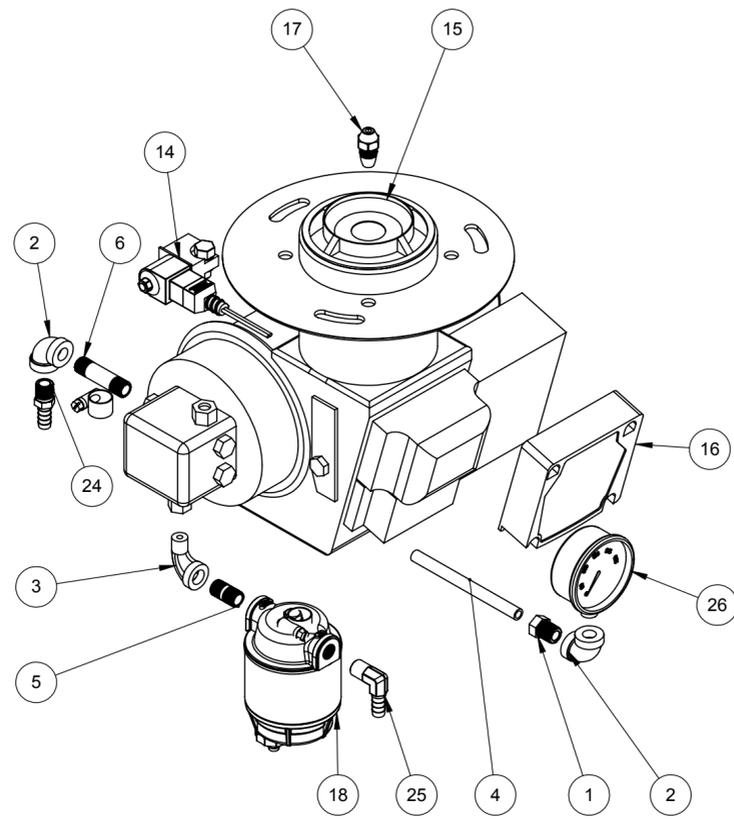


- G. Connect the red wire from the pressure switch to the white wire from the temperature control and the white wire from the pressure light.



- H. Connect white wire from the power cord (12/2) to the circuit breaker copper post.





ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	E04-00001-58	BUSHING, 1/4MNPT - 1/8FNPT PIPE HI PRESSURE W/VIBRA SEAL, HEX HEAD	1
2	E08-00005-2	ELBOW, 1/4FNPT 90 SCG40GS PIPE	2
3	E08-00006-2	ELBOW, STREET - 1/4NPT 90 GS - PIPE SCH40	1
4	E12-00045-2	NIPPLE, 1/8"MNPT- 4 1/2" GS PIPE SCH40 (STD)	1
5	E13-00010-2	NIPPLE, 1/4MNPT - CLOSE GALVANIZED PIPE W/VIBRA SEAL	1
6	E13-00020-2	NIPPLE, 1/4MNPT - 2" GALVANIZED PIPE W/VIBRA SEAL	1
7	F04-00602	TERM, RING - #12-10 NINSL 1/4 STUD	1
8	F04-00610	TERM, FORK - #16-14 WIRE #10 NON-UNSUL. CRIMP TYPE	1
9	F04-00615	TERMINAL, SPLICE-18-10	1
10	F04-00616	INSULATOR, TERMINAL 18-10	1
11	F04-00616-1	TERMINAL, SPLICE-18-6	1
12	F04-00616-2	INSULATOR, SPLICE 18-6 WIRE	1
13	F04-00618	INSULATED FEMALE SPADE-.25 x .032	1
14	F04-00979	VALVE, FUEL SOLENOID - MODULE, 12VDC/24VAC (GREEN)	1
15	V00-173201	BURNER, OIL - W/O SOL., 12VDC, EH HOUSING	1
16	V0B-7556P	CONTROL,OIL PRIMARY*GENISYS 12V, 5S PREPURGE, 2M POST PURGE	1
17	V3.00 80DB	NOZZLE, BURNER - V3.00 80DB	1
18	V04-00308	FILTER, FUEL - 1/4 FNPT	1
19	V550-00611	ASSEMBLY, WIRE - 14GA X 6" WHITE WITH F04-00618 ON ONE END & STRIPPED BACK 1/2" ON THE OTHER END	1
20	V550-00623	ASSEMBLY, WIRE - 10GA X 6" RED, WITH F04-00670 ON ONE END, STRIPPED BACK 1/4" ON THE OTHER	1
21	V550-00923	ASSEMBLY, WIRE - 10GA X 9" RED WITH F04-00670 ON ONE END, F04-00602 ON THE OTHER END.	1
22	V550-01010	ASSEMBLY, WIRE - 14GA X 10" BLACK WITH F04-00610 FORK, STRIP 1/4" OFF THE OTHER END	1
23	W02-00032	CLAMP, HOSE - 5/16 - 3/8ID TO 7/8ID	2
24	W02-10023-8	BARB, HOSE - 3/8B X 1/4MNPT X STRAIGHT W/VIBRA SEAL	1
25	W02-10088-8	BARB, HOSE - 3/8B X 1/4MNPT X 90 W/VIBRA SEAL	1
26	Y02-00041	GAUGE,PRESS.SS 200PSI, 2.5"FACE, 1/4"MNPT BTM	1

WHERE USED	REVISION	DR	DATE	DESCRIPTION	RELEASED BY:

DATE: 3/22/2013	MATERIAL:
DRAWN BY: wjde.schluefer	
NOTES: 25.4 mm = 1 in.	
FRACTIONAL: 1/32 INCH	
ANGULAR: 1 DEGREE	
ASSEMBLY: 1/16 INCH	
11Ga. & 12 Ga. USE 1/8" V-DIE.	
14 THRU 20 Ga. USE 1/16" V-DIE.	
BRUSH MARKS ARE LEFT TO RIGHT UNLESS OTHERWISE SPECIFIED.	

TITLE	KIT, BURNER
	12V SOL / OIL PRIMARY
PART NUMBER	V550-99401

