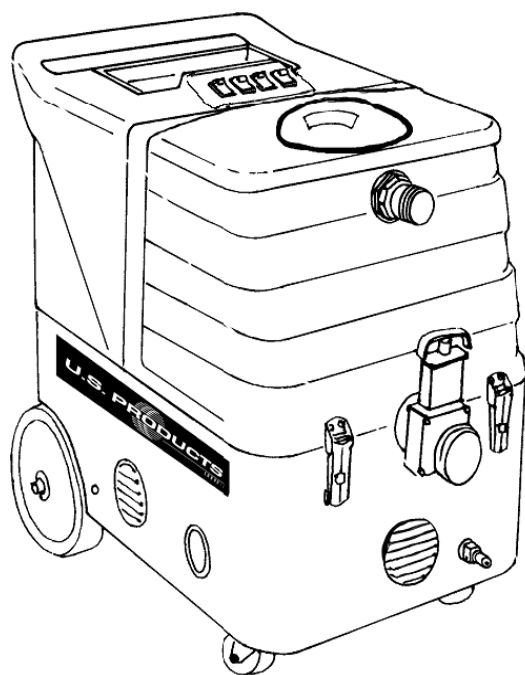




# **COBRA<sup>®</sup>-300H EXTRACTOR 100V**



## **INFORMATION & OPERATING INSTRUCTIONS**



**DO NOT OPERATE MACHINE UNTIL YOU HAVE READ  
ALL SECTIONS OF THIS INSTRUCTIONS**

**IMPROPER USE OF THE MACHINE WILL VOID THE WARRANTY**

1. Always use a defoamer when foaming occurs to prevent vacuum motor damage.
2. Keep machine from rain and snow, extremes in temperatures, and store in a heated location. Use the machine indoors. Do not use outdoors.
3. Do not let the pump run dry.
4. Use approved chemicals only. NO SOLVENTS.
5. Wear gloves or use rags when removing quick disconnects to prevent burns.
6. Never use water above 54° C/130° F in the solution tank.

## IMPORTANT SAFETY INSTRUCTIONS

This machine is only suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices other than normal residential housekeeping purposes.

When using any electrical appliance, basic precautions should always be followed, including the following:

**NOTE:** Read all instructions before using this machine.



### **WARNING!**

To reduce the risk of fire, electric shock, or injury:

- Do not leave the machine unattended when it is plugged in. Unplug the unit from the outlet when not in use and before servicing.
- To avoid electric shock, do not expose to rain or snow. Store, and use, indoors.
- Do not allow to be used as a toy. Close attention is necessary when used near children.
- Use only as described in this manual. Use only the manufacturer's recommended attachments.
- Never add water over 54° C/130° F to the solution tank.
- Do not use with damaged cord or plug. If the machine is not working as it should, has been dropped, damaged, left outdoors or dropped into water, return it to a service center.
- Do not pull by the cord, use the cord as a handle, close a door on the cord, or pull the cord around sharp edges or corners. Do not run the machine over the cord. Keep the cord away from heated surfaces. To unplug, grasp the plug, not the cord.
- Do not handle the plug, the cord, or the machine with wet hands.
- Extension cords must be 12/3 and no longer than 50 feet. Replace the cord or plug immediately if the ground prong becomes damaged.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
- Keep loose clothing, hair, fingers, and all parts of body away from openings and moving parts.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes, or any health endangering dusts. Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
- Turn off all controls before unplugging.
- Use extra care when cleaning on stairs.
- Connect to a properly grounded outlet only.
- Liquid ejected at the spray nozzle could be dangerous as a result of its temperature, pressure, or chemical content.

## INSPECTION:

Carefully unpack and inspect your COBRA-300H for shipping damage. Each machine is tested and inspected before shipping. Any shipping damage incurred is the responsibility of the carrier. You should notify the carrier immediately if you notice damage to the box or to the machine or parts.

## CLEANING SOLUTIONS:

We recommend liquid cleaning chemicals, such as our Magic Fabric Cleaner. Powder chemicals may be used, but unless mixed very thoroughly they could cause a build-up in the pump, lines, heat exchanger and/or quick disconnects. Any problem caused by a chemical build-up is not covered by warranty. Use a neutral cleaner with a pH between 6 and 9 to avoid premature wear of the pump, seals, and/or other components. Damage caused by the use of strong chemicals is not covered by the warranty.

## MAINTENANCE:

For optimum performance flush the machine with clear water at the end of each working day. Once a month, minimum, run a flushing compound through the machine to break up any mineral or chemical build-up that may have formed. U.S. Products' "X-1500" is recommended. The vacuum motor, pump motor, and the pump do not require any scheduled maintenance; however, the motors may require replacement brushes after 1000 - 1500 hours, and the pump and bypass valve may require rebuild kits after 1000 - 1500 hours, typically (refer to machine part list for numbers) Clean the body with an all purpose detergent, and protect it with an automobile interior polish. Lubricate the wheels, castors, and quick disconnects with an all purpose silicone spray.

**Serial Number:** \_\_\_\_\_

**Model:** COBRA-300H-JP

**Purchase Date:**\_\_\_\_\_

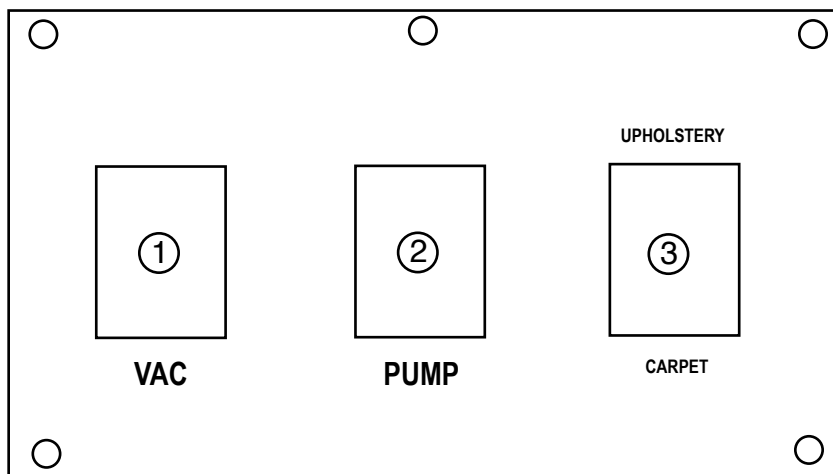
**Write the name and phone number of your distributor:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**(and be sure to register your warranty; go to [www.usproducts.com](http://www.usproducts.com))**

## SWITCH PLATE



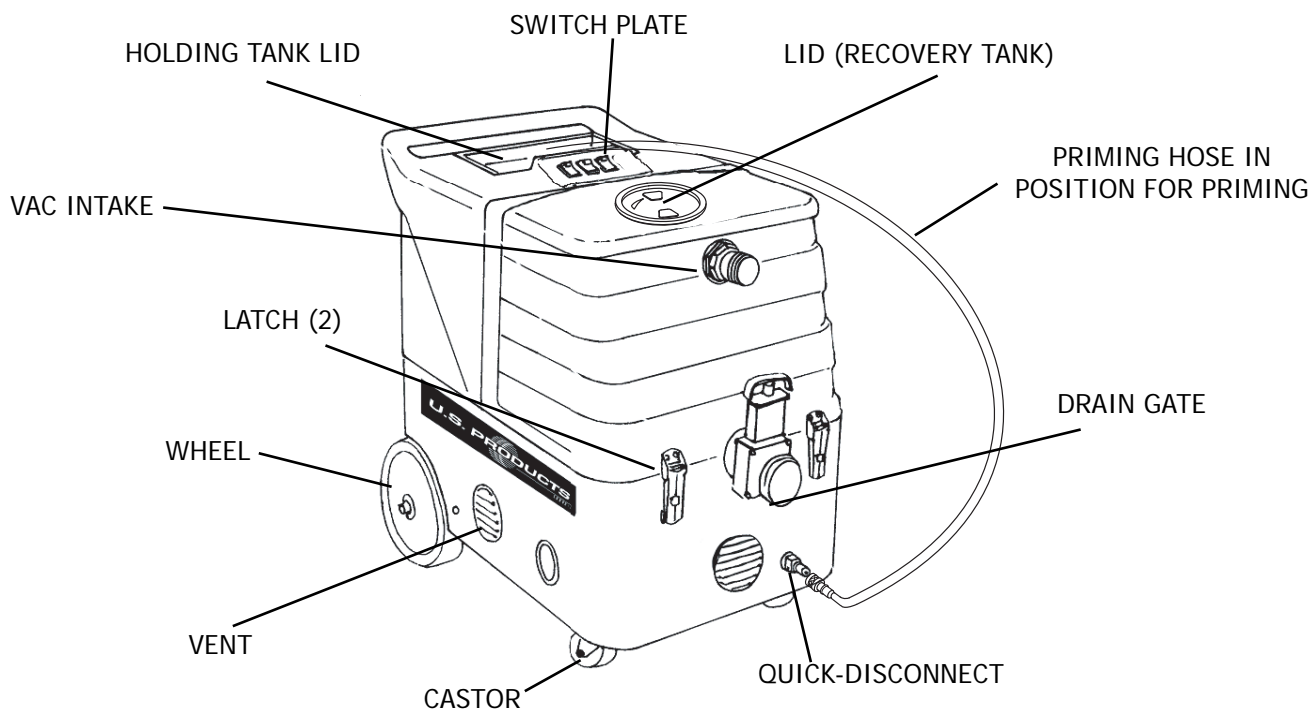
### VACUUM (1), PUMP (2) SWITCHES:

These switches are powered by cord #1. Switches light up when turned on.

### CARPET/UPHOLSTERY SWITCH (3):

This switch is also powered by cord #1. The carpet setting (down position) is high pressure (approximately 300 PSI). The upholstery setting (up position) is low pressure (approximately 50 PSI with a K1 or V2 spray tip).

## KNOW YOUR MACHINE



## SET-UP:

1. Fill the holding tank with clear water and the detergent of your choice. Mix well. Although this machine is designed to supply instant hot water, the addition of warm water (not exceeding 54° C/130° F) to the holding tank will increase the efficiency of the heater.
2. Plug in cord #1. Attach the priming hose to the machine (see illustration on previous page). Turn the pump on and set the switch to the upholstery setting. Run the pump until the pump is fully primed, then turn off the pump. Remove the priming hose, and attach the cleaning hoses and tool.
3. Turn on the pump, and spray through the cleaning tool for a few seconds to fill the lines with solution.
4. Plug in cord #2 (identified by a red "H" on the back of the extractor). Wait 2 minutes for the heat exchanger to reach operating temperature. You may now begin cleaning. It will take about 10 seconds for the initial heat to reach the wand.

## BALL FLOAT VAC SHUTOFF:

When the recovery tank is full, the float system will shut off the incoming air flow and prevent water from entering the vacuum motors. The float may not work properly if the float filter is clogged or if there is foam in the tank.

**CAUTION:** To avoid vac motor damage, always make sure the float filter is clean and the ball travels freely before turning on the machine, and use a defoamer whenever foam is present.

## TROUBLE SHOOTING:

### IF THIS OCCURS

### CHECK THIS

NO SPRAY	Solution tank is empty. Clogged spray tip. Pump not running. Valve on wand not operating.
PUMP DOESN'T RUN	No power to pump. Test the switch. Test the motor directly to AC power.
LOW SUCTION	Debris plugging cleaning tool or vacuum hose. Drain gate is not completely closed, or seals are damaged. Vacuum lid is not closed tight.
NO SUCTION	No power to motor. Test the switch. Test the vacuum motor.
LOW HEAT	Spraying too long. Try spraying for 12-15 seconds per cycle. Heat exchanger needs to be flushed. Wrong tool being used. Too much water passing through, (longer hose, larger diameter hose, or larger spray tip), than standard.
NO HEAT	No power in the wall outlet - check to see if the breaker has tripped. Check power cord for 'opens'. Call your distributor for additional help.

## SPECIFICATIONS:

Rotomolded Body: Lifetime Warranty

Vacuum: One, 3-stage, 7.2"

VAC Shutoff: Ball float

Pump: Positive displacement, 300 psi carpet, 50 psi upholstery

Waterlift: 125"

Heat: 212° F

Heater: 1500 Watts

Wand: Stainless steel, double bend, twin tip

Weight: 99 lbs.

Dimensions: 26.5H x 18W x 28.75L (inches)



## COBRA-300H 100V

Item	Ref. No.	Qty	Description	Item	Ref. No.	Qty	Description
1#	903USP	1	Drain Gate (see Misc.)*	64A	495A	1	Power Cord, 25', Yellow
2	21	4	Screw, Button Head, 10/32 X 5/8"	65	918	1	Heat Sink Plate
3#	56471194	2	Latch	66	(see Misc.)	1	Thermistor Control with Potentiometer **
4#	187USP	1	O-ring	67	4	2	Bolt, 1/4-20 x 1"
4A	187B	2	Washer, flat Rubber	68	HT-2	1	Holding Tank
4B#	185USP	1	Nut, 1-1/2"	69	CWBLK	1	Cord Wrap, Black
5	FP208	1	Vacuum Tank, Complete, Cobra	70	203	4	Washer, Plastic
6	907	1	Hose Barb, 1-1/2"	71	260	2	Nut, Acorn, 3/16"
8	1074	1	Gasket (Machines made after 2-15-05)	72#	207USP	1	Filter, Pump Inlet, 40 Mesh, S/S
9	2086A	1	Lid and Ring (Machines made after 2-15-05)	72A	217	1	Nipple, PVC, 1/2 N.P.T.
	56380968	1	O-Ring for 2086A Lid	73#	901USP	1	Lid, Holding Tank
9A	FP436	2	Chain and Hardware	75	FP578	1	Switch, Carpet/Upholstery
10#	924A	1	Float, Ball & Cage	76	FP578	1	Switch, Pump
11	FP193	1	Ball Float Assembly, Complete	77	FP578	1	Switch, Vacuum
14#	922USP	1	PVC Elbow, 1-1/2"	79	28	4	Screw, #4 x 3/8"
15#	156USP	4	Hose Clamp, (size 28)	80	2006D	1	Switch plate
16	430B	1	Hose, Vacuum, Rubber, 2" x 21"	82	944	1	Hose, Pulsation Dampening, 28"
16A	FP171D	1	Hose, Vacuum, Rubber, 2" x 19"	83	97	1	Bushing, Brass
17	913B	1	Vacuum Motor, 3-stage	84	223	2	Quick Disconnect, Male, 1/8" Pipe Thread
18	7	3	Nut, jam, 5/16"	85	168	3	"T", Brass
19	15	3	Washer, flat	86#	221USP	1	Quick Disconnect, Male, Open, 1/4 p.t.
20	194	1	Split Ring	87	165	2	Hose Barb
21	934	1	Chain, 13"	88	FP167F	1	Pump, complete, no motor or solenoid
22	320AB	3	Nut, Finish, 5/16"	89	FP170A	1	Hose, Pump Inlet, 1/2" X 16"
23	34	3	Washer, Split lock	91#	166USP	6	Hose Clamp
24	179	3	Bolt, 5/16 x 4"	92	211	1	Plug, Brass
25#	959USP	1	Gasket, Vacuum Motor	93#	92AUSP	4	Nipple, 1/4 p.t., S/S
26	MA-6	1	Manifold, Vacuum	94	2060	1	Motor, AC, for Pump
29	FP220	1	Flange, Exhaust, w/Hose & Hardware	95	2061	1	Mount Plate, Pump Motor
32	928	3	Louver, 3" (includes screws)	96#	105USP	1	Reducer Nipple, Brass
33	909A	2	Latch Strike, for Latch, S/S	97	FP238	1	Bypass Valve, Complete for Cobra-300H
34#	45USP	1	Quick Disconnect, 1/4 n.p.t.	98	164	3	Hose Barb
35#	115USP	3	Washer, Fiber	99	FP169E	1	Hose, 3/8" X 8"
35A	116A	1	Bushing, Fiber	100	208	1	Hose Barb, Brass 1/8 p.t. x 3/8 hose
36#	31USP	1	Washer, Brass	101	2062	1	Solenoid (without fittings)
37	5	8	Bolt, 1/4-20 x 3/4"		FP230	1	Solenoid (with fittings)
38	2002	2	Castor, Swivel, 3"	102	FP169C	1	Hose, Pump Bypass, 3/8" X 18"
39	8	10	Lock Nut, 1/4-20	103	SYP1	1	Priming Hose Assy
41	2001B	2	Label Cobra-300H White on Black	104#	216	2	Elbow, 1/4 Street, 90 Deg
42#	27AUSP	2	Axle Cap, Black	105#	182	1	Bushing 3/8 X 1/4 Pipe Brass
43	2003	2	Wheel, 8"	106#	56003873	1	Nut-Hex Flange SS M4-0.7
44#	910-1693	2	Axle, 18-13/16"	[ ]#	140USP	1	Elbow 45deg. angle 1/4 Male x 1
45	BS-6	1	Base, Cobra, Black	[ ]#	425	1	Gasket, 40 Shore – Santoprene (5.5")
46	FP439	1	Gasket, Cobra Base	[ ]#	92USP	1	Nipple 1/4 Pipe Brass
47#	92AUSP	2	Nipple, S/S, 1/4 p.t.	[ ]#	220	2	Quick Connect Brass 1/4 Fpt
48#	91USP	7	Elbow, Brass	*#	56044507	1	Literature Pack
49	2023A	1	Hose Assembly, Heater Outlet, 29-1/2"	<b>MISCELLANEOUS PARTS</b>			
50	FP159E	1	Heat Exchanger, Complete, 100V	*FP231A			Drain Gate Assembly, Complete (with o-rings & nut)
51#	455USP	1	Mount, Heat Exchanger	FP212B			Pump & Motor Complete (NO solenoid, mount bracket, mount bracket or hoses)
52	76A	1	Hose Clamp	950A			Cam/Bearing Assembly
53#	103USP	1	Elbow, 1/8 f.p.t. x 1/8 m.p.t.	#			291USP Bypass Valve Rebuild Kit
54	224	1	Hose Assembly, 8"	#			950CP Valve/O-Ring Kit, for 300 PSI pump
55#	222USP	4	Quick Disconnect, Female, Open, 1/8 p.t.	#			250USP Piston/Seal Kit, for 300 PSI pump
56	2164	1	Pressure gauge	FP194E			Heat repair Kit, includes thermistor control, probe, cutout (for machines built after June 14, 2005)
57#	219USP	1	Quick Disconnect, male	<b>NOTE:</b> Items in kits not sold separately.			
59	2B1	4	Screw, 6/32 x 2-1/4"	# = Revised or new since last update			
60	2015	1	Guard, Fan	[ ] = Not Shown			
61	2014	1	Fan, Cooling	* = Optional, Not Included			
62	16	4	Locknut, 6/32"				
63	937	1	Reducer, PVC				
64#	184USP	1	Cord Retainer				



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