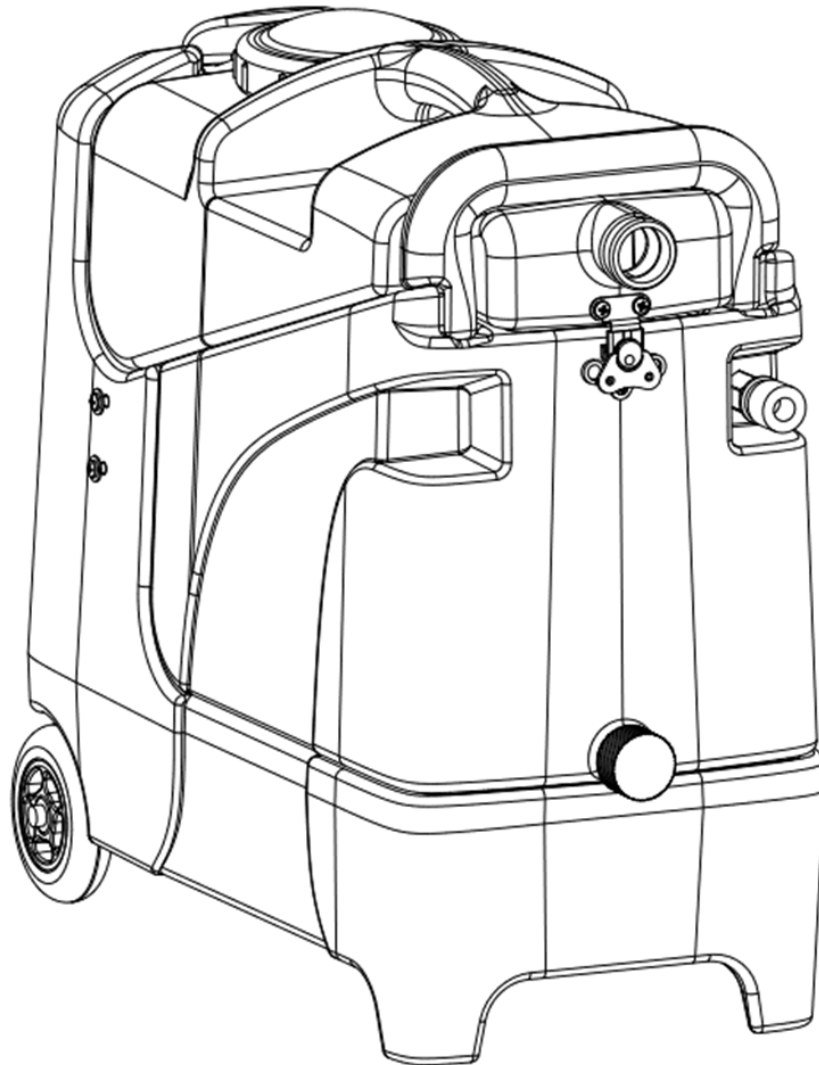


Spot Extractor

Owner's Manual

Models MA72, MA72H, MA74, MA74H, & MA75



Appearance May Vary



WARNING

All users must read and understand this manual completely before operating the machine.

Any questions pertaining to the operating or servicing of this unit should be directed to your nearest Hydro-Force distributor.

Thank You!

Congratulations on your purchase of the Hydro-Force Spot Extractor. Years of experience, engineering, and planning have gone into the design and manufacturing of the Spot Extractor. We take a great deal of pride in the Spot Extractor; our goal is no less than your complete satisfaction.

This manual will provide users with the knowledge required to operate the Spot Extractor safely, to understand how to properly operate and maintain the machine, and to ensure that the equipment operates at its maximum performance level.

Manufacturer Contact Information:

Hydro-Force
4282 South 590 West
Salt Lake City, UT 84123
801-268-2673
801-268-3856 FAX

Information in this manual is subject to change without notice and does not represent a commitment on the part of Hydro-Force or its parent or affiliated companies.

TECHNICAL SPECIFICATIONS:

Model	Olympus Basic	Olympus w/ Heat	Nautilus w/ Heat	Nautilus Basic	Nautilus Extreme
Model No.	MA72	MA72H	MA74H	MA74	MA75
Dimensions (LxWxH)	21.5" x 11.5" x 20.5" [550 x 300 x 520mm]				
Weight (lbs)	35	36.5	36.5	35	35
Solution Tank Capacity	2.8 Gallons				
Recovery Tank Capacity	2.6 Gallons				
Solution Pump	55 psi		120 psi		
Vacuum Motor	5.7" 2-Stage			5.7" 3-Stage	8.4" 2-Stage
	Tangential Discharge				
Heater		600 Watt			
Electrical Specifications	115VAC, 60Hz / 15A				

READ AND SAVE THESE INSTRUCTIONS



Use common sense to protect yourself and others while using this equipment.

- Keep pets and children away from the machine when in use.
- Keep all body parts, hair, and loose clothing away from openings and moving parts. Always wear appropriate work clothing and safety equipment when operating unit.
- Use extra care when cleaning on stairs. Wet carpet on stairs can be slippery.
- DO NOT move up or down stairs when tanks are full of water. Drain solution and recovery tanks, and secure latches before moving unit up or down stairs. Lift using only the machine handles designed & designated for moving and lifting.
- Water may be spilled, drip, or be exhausted from vacuums during operation. Place unit in area where water will not cause damage or use drop cloth to protect surfaces.

IMPORTANT SAFETY INSTRUCTIONS



THIS MACHINE IS AN ELECTRICAL APPLIANCE. CARE MUST BE TAKEN TO REDUCE THE RISK OF ELECTRICAL SHOCK.

READ AND UNDERSTAND ALL INSTRUCTIONS BEFORE OPERATING.

- To reduce the risk of property damage or injury, repairs to electrical systems should only be performed by experienced technicians. Contact your distributor for assistance. **Unplug machine power cord from outlet before performing any repairs on the extractor.**
- This machine shall be grounded while in use to protect the operator from electric shock and is provided with a three-conductor cord and a three-contact grounding type attachment plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect this wire to other than the grounding pin of the attachment plug.
- DO NOT use a plug adapter with this machine.
- The power cords supplied with this machine are properly sized to handle the electrical load of this machine and properly grounded as described above. Any extension cords used with this machine must be similarly sized with an equal or greater load rating and grounded to assure safe operation. A properly sized or rated GFCI protected cord can be used for additional protection.
- DO NOT use the Spot Extractor outdoors, in standing water or on wet surfaces. Do not store in wet conditions. If extractor is leaking, unplug machine power cords from outlets before approaching or touching machine.
- DO NOT unplug power cord by pulling on the cord. Grasp the plug end when unplugging the cord. Do not pull the extractor by the cord. If cord or plug is damaged, do not use cord. Replace with new cord or repair as needed before use.
- An overloaded circuit may not always trip circuit breaker. Reduced voltage to a machine on an overloaded circuit will prevent components from operating properly.



THIS MACHINE MUST BE PROTECTED FROM CONDITIONS WHICH MAY DAMAGE THE PUMP, TANK, HOSES AND OTHER COMPONENTS.

- **Freezing of water in this machine will cause serious damage.** The Spot Extractor, solution hoses, and tools must be protected from freezing temperature. Store, transport, and use this equipment only in temperatures well above freezing. (32°F or 0°C). If you suspect the unit has been frozen, do not plug in or turn on machine until you are sure it has thawed completely.
- If the equipment cannot be stored or transported in a warm environment, it can be guarded from freezing by running an anti-freeze solution through the incoming water lines, solution pump, solution lines, and tools.
 - The anti-freeze solution must be completely flushed from the machine before it is returned to service.
- DO NOT use the Spot Extractor to pick up flammable or combustible materials or use in areas where these materials may be present.
- Solvent-based or water-based solutions containing solvents may damage the pump, hoses, and other components. Do not assume chemical compatibility. Contact your distributor or Hydro-Force if you have questions regarding the compatibility of your chemicals with the machine.
- DO NOT clean with solutions that are at temperatures above 130°F.
- Rinse the solution tank, chemical system, and pump with fresh water after each day's use.
- DO NOT allow pump to run dry. Always maintain adequate solution level to supply solution pump.

- High pressure hoses may rupture if worn or damaged. Do not use HP solution hoses if hose covering is cut, bulging, or otherwise damaged. Examine HP solution hoses daily and replace or repair hoses as needed.
- Use defoamer to eliminate foam build-up during cleaning and prevent foam/moisture from entering vacuums.

SET UP AND OPERATION:

1. Electrical Specifications:

The Spot Extractor is equipped with a 20 foot power cord and is designed to work with a 115VAC 15 or 20 amp circuit. These outlets are commonly found in homes and commercial buildings.

2A. Water Supply – Manual Fill:

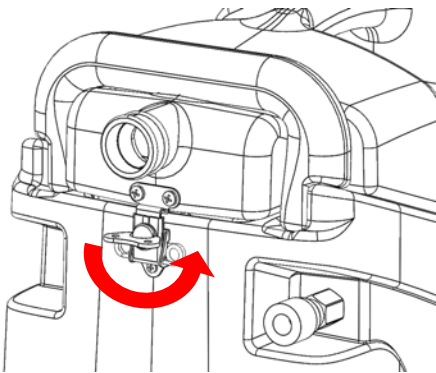
- Pour up to 2.8 gallons of hot water into the solution tank at the front of the machine.

NOTICE THE WATER TEMPERATURE CANNOT EXCEED 190°F.

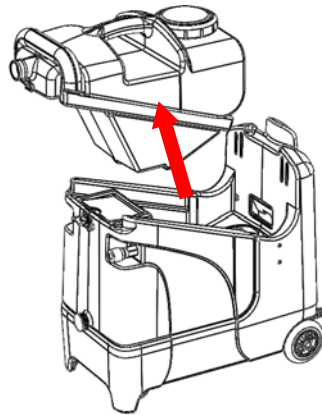
NOTICE DO NOT RUN OUT OF WATER WHILE USING THE MACHINE.

Ensure that the tank contains enough water to complete each job. If the water level is low: stop cleaning, turn off the pump and vacuum, empty the recovery tank, and refill the solution tank. Running the pump dry may damage the pump and void the warranty.

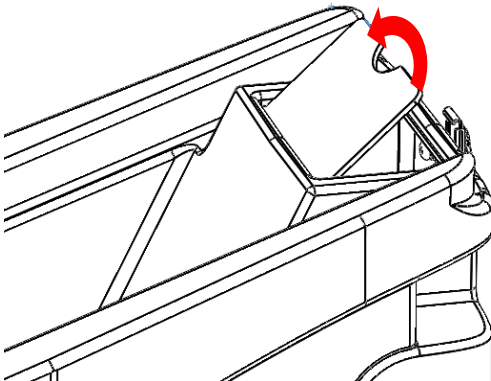
Step 1–Release Butterfly Latch (CCW) Handle



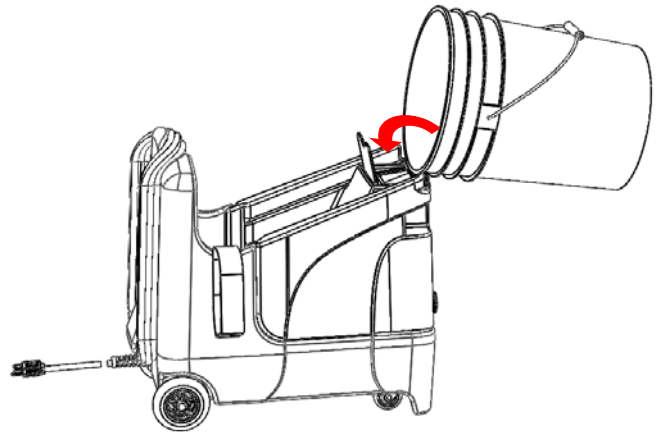
Step 2–Remove Recovery Tank using Top-Center Handle



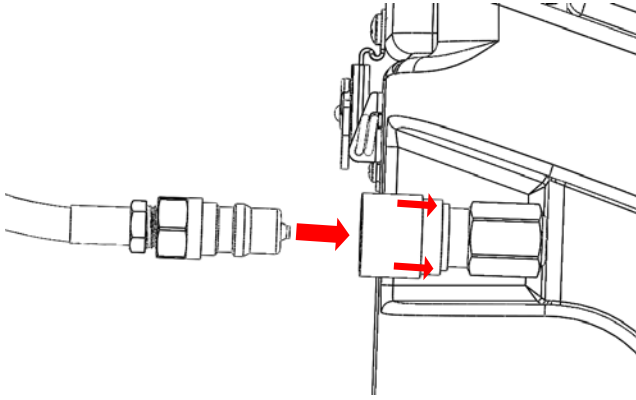
Step 3–Open Splash Lid



Step 4–Pour In Water (up to 2.8 gallons)



3. Connection of Solution Hose:



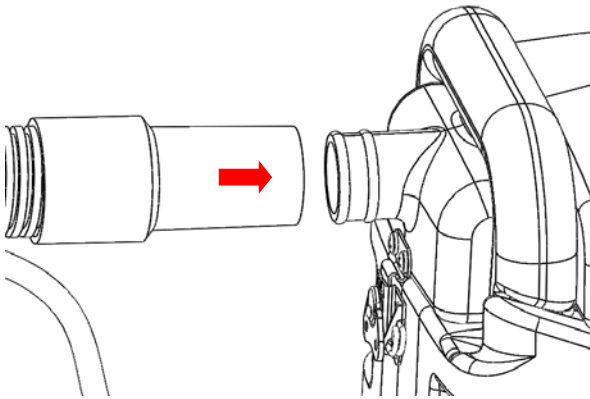
Attachment:

- While sliding the sleeve of the female quick connect towards the housing, press the male quick connect into the hole.
- Once the male quick connect bottoms out in the hole, release the sleeve of the quick connect.
- Press the male quick connect firmly until the sleeve of the female quick connect locks forward.

Removal:

- Slide the sleeve of the female quick connect towards the housing until the connection releases.

4. Connection of Vacuum Hoses:



Attachment:

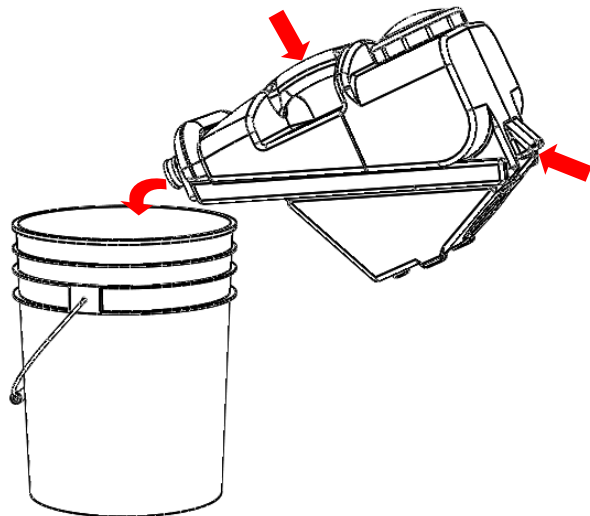
- Press the vinyl cuff of the hose onto the inlet of the vacuum.

Removal:

- Pull the vinyl cuff of the hose off of the inlet of the vacuum.

Note: Wriggling the vinyl cuff from side to side slightly helps overcome a tight fit.

5. Empty the Recovery Tank:



- After unlatching the butterfly latch, lift the recovery tank by the top-center handle out of the vacuum body (Steps 1 & 2 above).
- Using the lower-rear handle and the top-center handle, tip the recovery tank forward to empty the contents of the tank.
- At the completion of the job, rinse the tank with clean water to prevent odors and buildup of waste in the tank.

NOTICE

TO AVOID OVERFLOW

OF RECOVERY TANK, EMPTY THE TANK EACH TIME THE SOLUTION TANK IS FILLED.

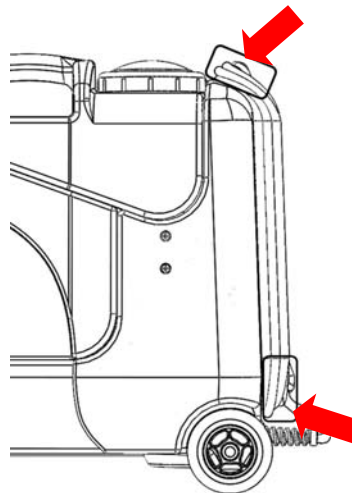
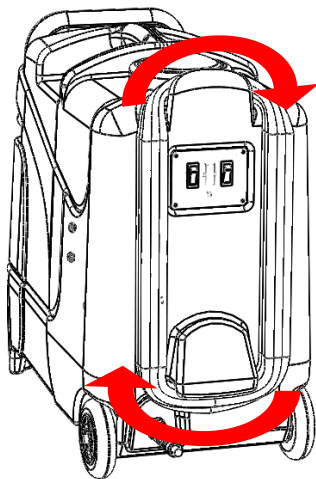
SHUTDOWN PROCEDURES:

- When finished cleaning, turn off all switches.
- Disconnect the vacuum hose from the machine.
- If water remains in the solution tank, use the drain outlet to dump excess water from the tank. If chemical was used in the solution tank, add ½ gallon clean water to the solution tank, turn on the pressure pump, and flush the tank and solution hose by running the fresh water through the system.
- As needed, Clean Vacuum Filter which is found under the large, black lid of the recovery tank.
- Drain any remaining water from the recovery tank and dispose of in sanitary drain. Do not use the same bucket to drain the tank that you use to fill the tank.
- Rinse recovery tank with clean water.
- Roll up all hoses and cords.

Storage Options:

Power Cord Storage

The back of the Spot Extractor has two cord wraps to hold the 14/3 x 20ft power cord. Secure the power cords into place using the attached hook and loop straps.



Note: Disconnect the vacuum hose, but leave the solution hose connected to help support the hoses in the front of the unit. The recovery tank can be removed with the solution hose attached.

TROUBLESHOOTING – Spot Extractor

Problem	Cause	Solution
Machine not turning on - No power	Building circuit breaker tripped.	Reset breakers or move cords to other outlets
	Faulty power cord	Replace cord
	Faulty switches or internal wiring	Check wiring & test switches - Repair as needed *
Solution Pump not running	Building circuit breaker tripped.	Reset breakers or move cords to other outlets
	Faulty power cord	Replace cord
	Faulty switches or internal wiring	Check wiring & test switches - Repair as needed *
	Pump faulty	Replace pump
Low Solution Pressure and/or Pulsation	Jets too large for pressure desired	Check jets size & flow rates / use smaller jets
	Jets worn allowing too much flow	Replace jets
	Hose from solution tank restricted	Repair or replace hose
	Pump intake hose or fittings leaking	Repair or replace hose. Tighten clamps or replace fittings
	Solution tank empty	Add water to tank
	Pump faulty	Repair or replace pump
	Tool valve faulty	Repair or replace valve
	Quick connects or hoses restricted	Clean out or replace quick connects and/or hoses
	Pressure Relief Valve Stuck Open (Heated Units Only)	Replace the pressure relief valve
Heater Restricted with scale	De-scale or replace the heater	
Can't connect solution hose to machine	Pressure in lines	Release pressure
	Quick connects faulty	Replace quick connects (AH101B, AH102B)
	Wrong style/size quick connects	Replace quick connects to match connects on machine
Heater Not Heating (Heated Units Only)	Faulty switches or internal wiring	Check wiring & test switches - Repair as needed *
	Temperature Switch tripped	Reset manual reset temperature switch.
	Faulty temperature switches	Replace temperature switches on heater
	Faulty Heater Core	Replace heater core
	Flow too high for proper heating	Use smaller jet or slow use of water
	Water Starting out too cold	Heat water before filling tank – Maximum 130°F

⚠ WARNING: To reduce the risk of fire electrical shock or injury repairs to wiring should only be performed by experienced service technicians.

*If you are not experienced in checking electrical wiring, contact your nearest authorized service center to perform tests and repairs to wiring and switches.

TROUBLESHOOTING – Spot Extractor (Continued)

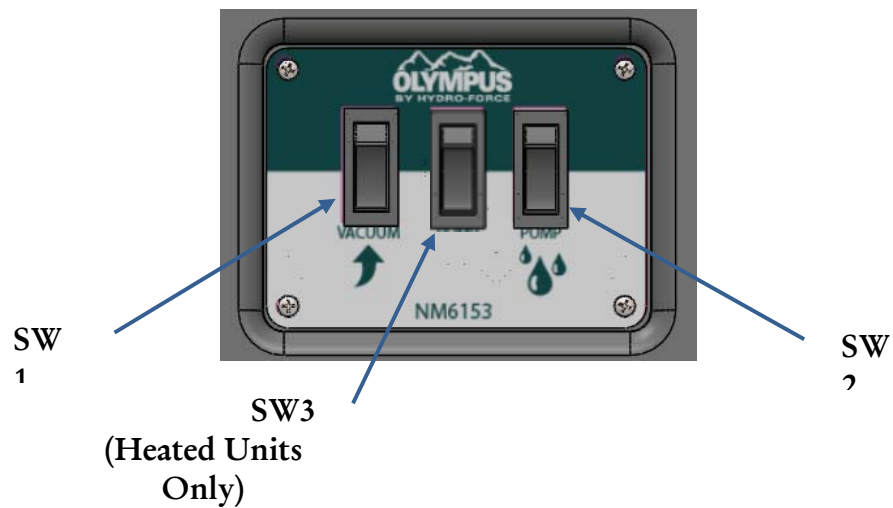
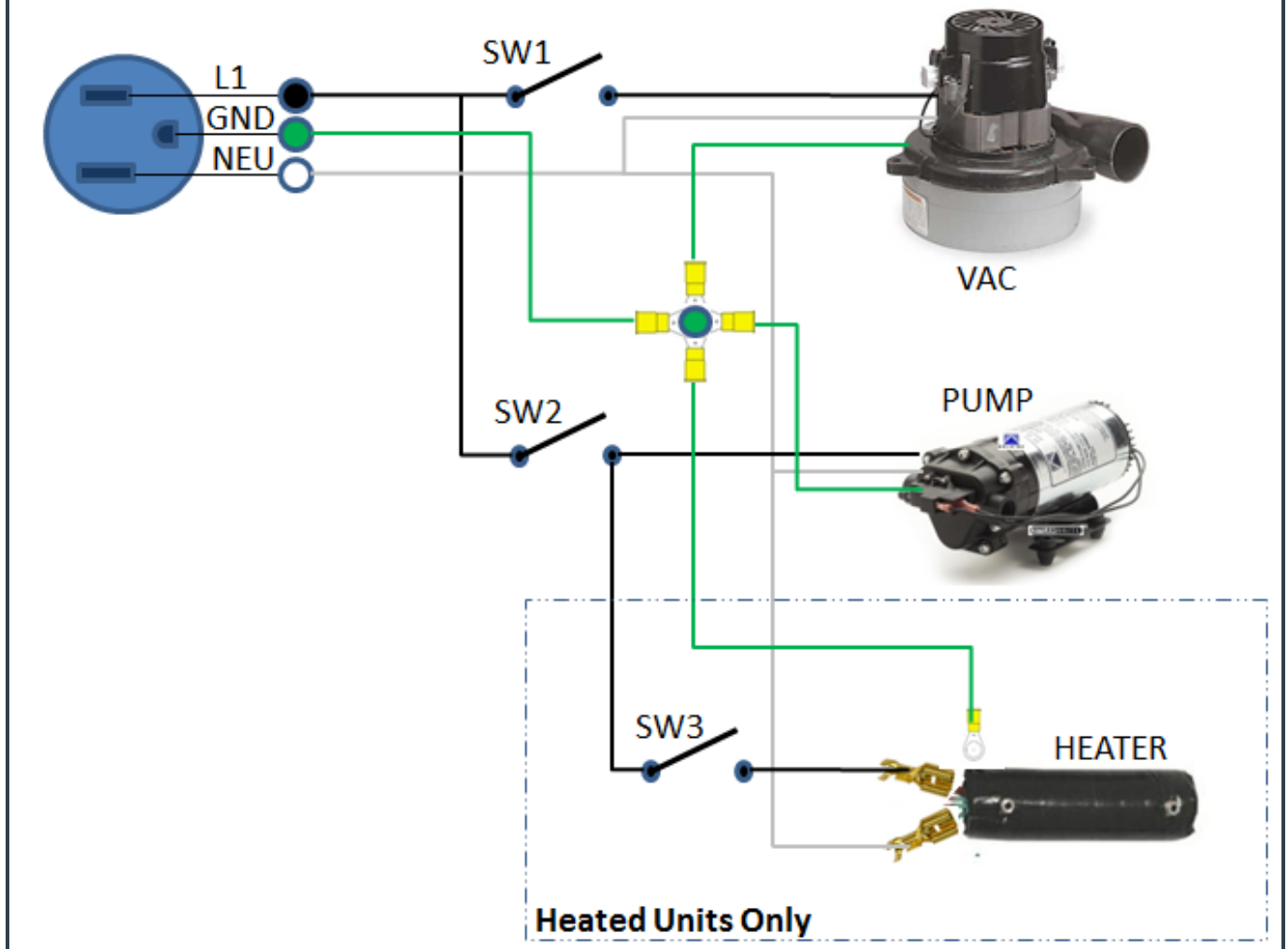
Problem	Cause	Solution
Vacuum Motor Not Running	Building circuit breaker tripped. Reset breaker or move cord to other outlet	Building circuit breaker tripped. Reset breaker or move cord to other outlet
	Faulty power cord	Replace cord
	Faulty switch or internal wiring Check wiring & test switch	Repair as needed *
	Vacuum motor faulty	Replace vacuum motor
Loss of Vacuum	Vacuum motor faulty	Replace vacuum motor
	Vacuum motor gasket damaged	Replace gasket
	Recovery tank lid gasket damaged	Replace lid assembly or gasket
	Vacuum hose or tool clogged	Clean out vacuum hoses and tool
	Vacuum hoses or cuffs leaking	Replace vacuum hoses, cuffs & connectors as needed
	Recovery tank full	Drain tank
	Float shutoff filter clogged	Clean float shutoff filter
	Float shutoff stuck	Repair or replace float shutoff
Recovery tank damaged	Replace recovery tank	
Tool won't spray - slow or uneven spray	Jet clogged	Clean out or replace jet
	Inline filter clogged	Clean out or replace filter if so equipped
	Jet worn	Replace jet
	Jet not aligned properly	Re-align jet
	Tool valve faulty	Repair or replace valve
	Quick connects or hoses restricted	Clean out or replace quick connects and/or hoses
	Pump not pumping	See Troubleshooting sections relating to solution pump

⚠ WARNING

To reduce the risk of fire electrical shock or injury repairs to wiring should only be performed by experienced service technicians.

*If you are not experienced in checking electrical wiring, contact your nearest authorized service center to perform tests and repairs to wiring and switches.

Spot Extractor Wire Schematic



MAINTENANCE:

Proper maintenance is required to keep the Spot Extractor operating properly, prevent downtime and to extend the life of your equipment.

 WARNING This machine is an electrical appliance.

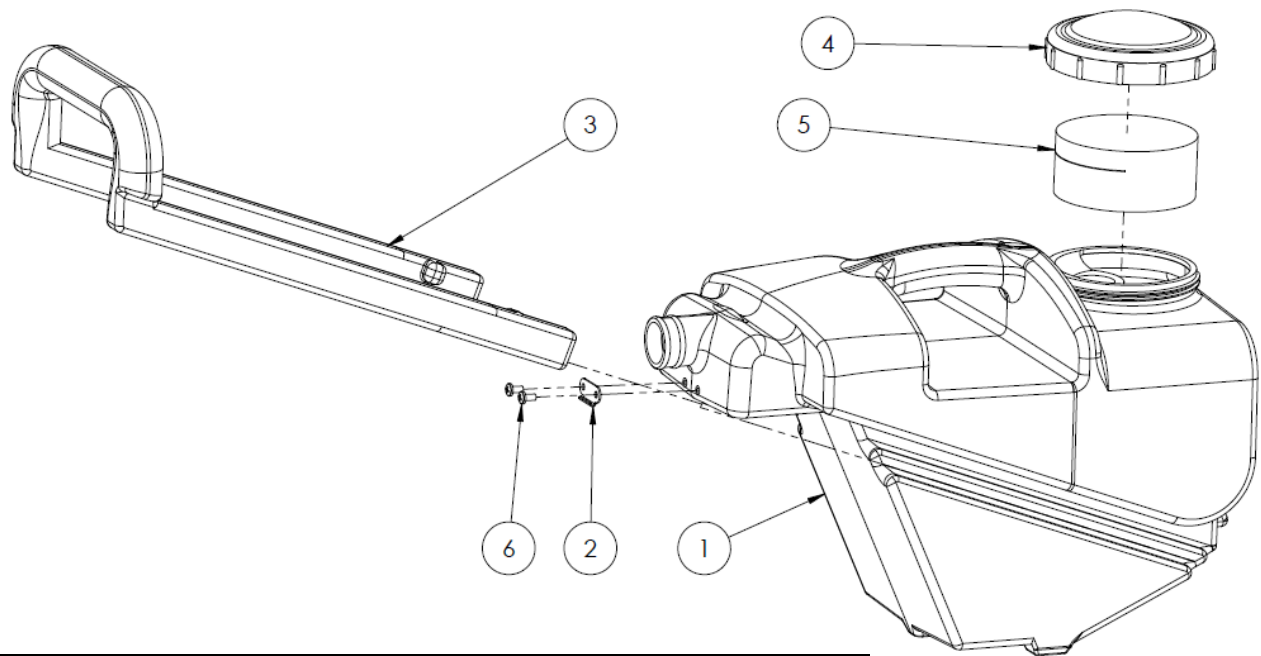
Care must be taken to reduce the risk of electrical shock. Disconnect electrical power before performing any service or maintenance inside machine base or before testing or repairing switches or power cords. Failure to do so may result in severe personal injury or death.

OPERATION	INTERVAL	PROCEDURE
CLEAN VACUUM FILTER <i>Buildup of debris in the filter degrades performance as it reduces the air flow and suction.</i>	Daily	<ol style="list-style-type: none"> 1. Remove Recovery Tank Lid – Twist CCW. 2. Pull Filter up & away from stand pipe. 3. Pull fibers and lint off and rinse with clean water. 4. Push the lower half of filter back onto the stand pipe. 5. Replace the recovery tank lid.
RINSE RECOVERY TANK <i>Clean out the tank on a regular basis to extend the life of vacuum & recovery components as well as keep the tank smelling better.</i>	Daily	<ol style="list-style-type: none"> 1. Remove the recovery tank lid. 2. Use a hose to rinse the dirt and debris out of the recovery tank. 3. Spray the tank with a deodorizer or disinfectant. 4. Replace the recovery tank lid. 5. Dispose of the dirty water and debris.
FLUSH SOLUTION TANK AND PUMP	Daily (If cleaning with anything except clean water only)	<ol style="list-style-type: none"> 1. Add one gallon of clean water into the solution tank. 2. Slosh the water around in the tank to clean tank. 3. Pour water out and dispose of the dirty water. 4. Pour another gallon of clean water into the tank. 5. With cord plugged in, connect the solution hose& tool to the solution outlet quick connect. 6. Direct the tool spray into a bucket or sink and turn the solution pump ON. 7. Spray the tool into the bucket or sink until most of the water has been pumped out of the solution tank. 8. Turn the pump OFF and disconnect the solution hose and tool. 9. Drain the remaining water out of the solution tank and dispose of the dirty water.
CLEAN PUMP-INLET FILTER <i>A restricted Pump Inlet Filter can prevent the solution pump from providing adequate pressure for cleaning.</i>	Weekly (As needed)	<ol style="list-style-type: none"> 1. Remove the filter screen from inside the solution tank and clean as needed. 2. Do not operate the machine without the pump inlet filter in place. 3. Replace filter, hose & barb as needed.
STORAGE PREP – FREEZE PROTECTION <i>Freezing can cause serious damage to the pump, pump-out, auto-fill float valve, and any other component containing water.</i>	As needed	<ol style="list-style-type: none"> 1. In a separate container mix 1 pint of water with 1 pint of automotive radiator anti-freeze. (Ethylene glycol type). 2. Mix well and pour into the solution tank. 3. Connect the solution hose to the solution outlet female quick connect and hold the tool over a bucket. 4. Turn the solution pump switch to the ON position. Spray the tool into the bucket until you see the antifreeze solution coming out of the jet into the bucket. 5. Turn the solution pump off. 6. Drain the remaining anti-freeze solution from the solution tank and the machine is ready for storage. <p>To Return to Service:</p> <ol style="list-style-type: none"> 1. Repeat steps above using CLEAN WATER ONLY until anti-freeze has been cleaned from the unit.

OPERATION	INTERVAL	PROCEDURE
DESCALING HEAER (Heated Units Only) <i>Continuous use with hard water can lead to build up of scale on the walls inside the heater. This degrades the heating and flow of water through the system.</i>	As needed	<ol style="list-style-type: none"> 1. Add one gallon of descaling solution into the solution tank. For light scale build-up a mild acid solution may be sufficient. Heavier build-up may require a stronger descaling solution. 2. With cord plugged in, connect the solution hose & tool to the solution outlet female quick connect. 3. Direct the tool into a bucket or sink and turn the Solution Pump ON. 4. Once you have solution at the tool, turn the Heater ON and turn the Solution Pump OFF. 5. Wait about 5-10 minutes and turn the Heater OFF and turn the Solution Pump ON. 6. Spray the tool into the bucket or sink until most of the descaling solution has been pumped out of the solution tank. 7. Turn the pump OFF and disconnect the solution hose and tool. 8. Repeat the descaling process as needed to remove heavier scale build-up. 9. Drain the remaining descaling solution out of the solution tank. Rinse the solution tank, pump & heater with clean water and dispose of the descaling solution and dirty water.

PARTS BREAKDOWN:

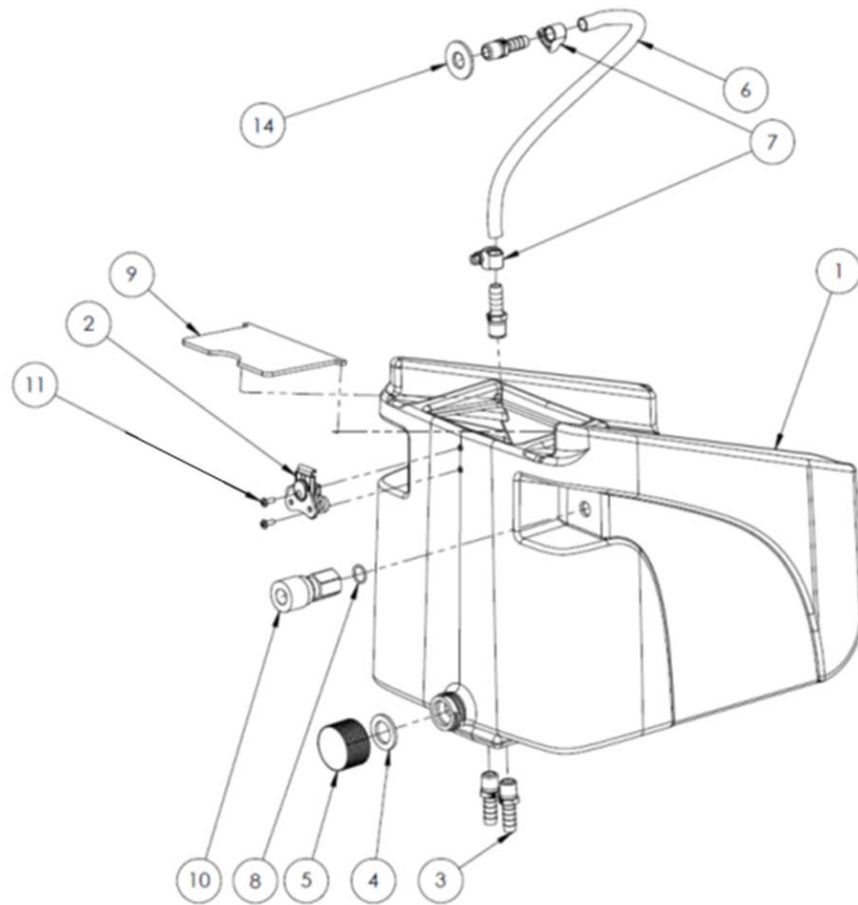
RECOVERY TANK (All Models)



ITEM NO.	Part No	DESCRIPTION	QTY.
1	NM6160x	Tank, Upper, Recovery, Spotter	1
2	NS121	Latch, Upper, TCH-501-2487800	1
3	NM6162	Handle, Extendable, Spotter	1
4	NM6164	LID, ASSEMBLY, 5IN, SPOTTER	1
5	NM6197	Filter, VAC-Inlet, Foam, Coarse, Spotter	1
6	NM5436	SCREW, 6-32x.375, PH, SS	2

SOLUTION TANK (All Models)

ITEM NO.	Part No	DESCRIPTION	QTY.
1	NM6156x	Tank, Lower, Solution, Spotter	1
2	NS120	Latch, Lower, TCH-501-2481800	1
3	BR020	CONN, 3/8in HOSE BARB x 1/4in Male NPT	4
4	NM100658	GASKET, CAP 33-400 SPI, 0.188 OD x .750 ID x .100 THK, BUNA-N	1
5	NM6158	Cap, Bottle, 33-400 SPI, Standard, Spotter	1
6	NM4340	Hose, 3/8in x 9in, Hi-Miller, 300psi,	1
7	PH07	CLAMP, HOSE, SCREW, 1/2 - 1-1/8in, SS	2
8	PP43-810008	O-RING, 1/2" ID x 5/8" OD, BUNA-N	1
9	NM100647	LID, SPLASH, SPOTTER	1
10	AH101B	QUICK CONNECT, 1/4in FEMALE x 1/4in Female NPT	1
11	NM6174	SCREW, 10-32x.375, HEX, ZI	2
14	NM5751	WASHER, 1/2IN ID, FLAT, SS	1



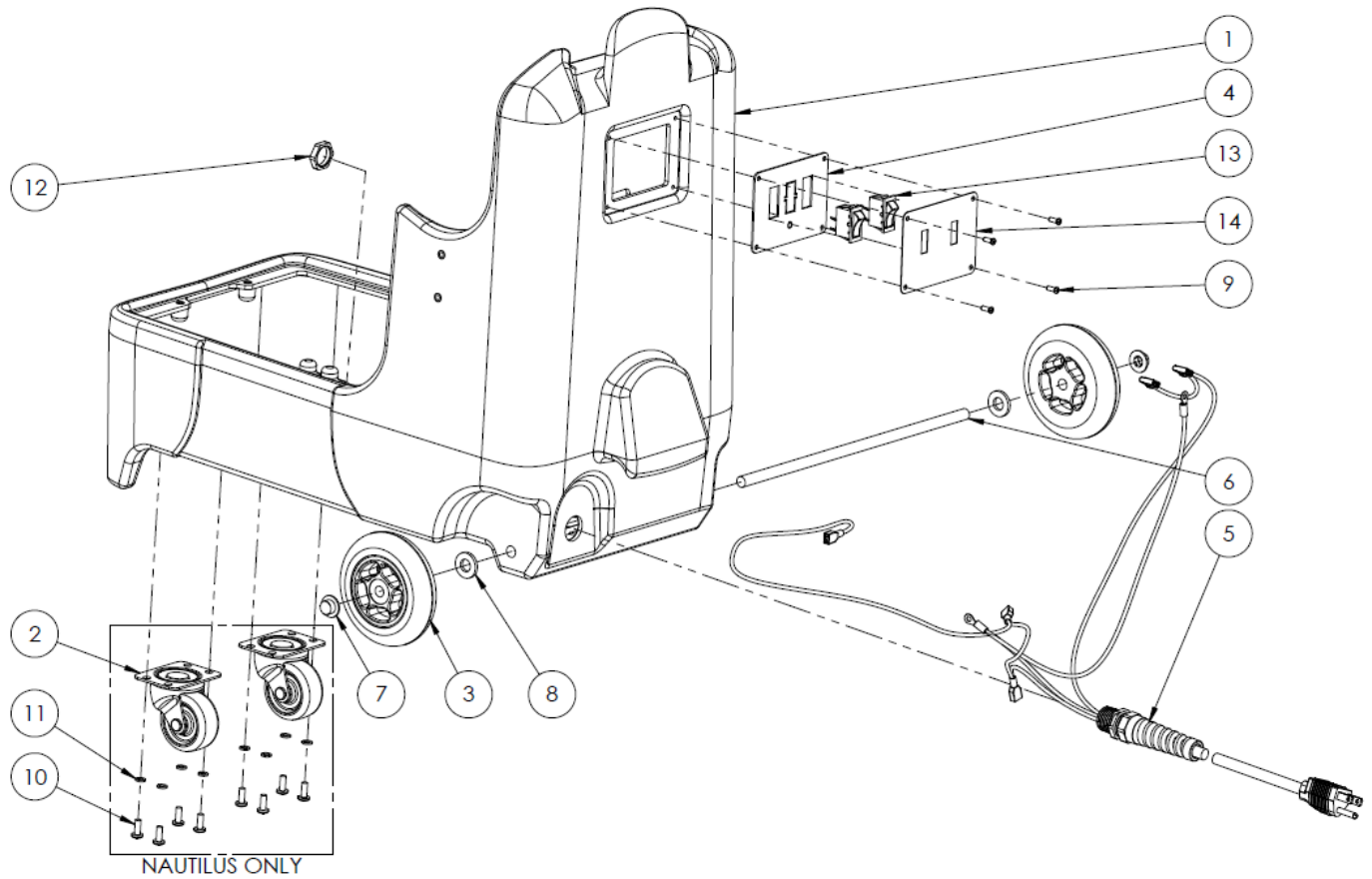
MOTOR HOUSING ASSEMBLY (All Models)

ITEM NO.	Part No	DESCRIPTION	QTY.
1	NM6150x*	HOUSING, MOTOR, BLACK, SPOTTER	1
2	NM6196	CASTER, 2IN, 360 PIVOT, GREY	2
3	NM6195	WHEEL, 4IN, GRAY, REAR, SPOTTER	2
4	NM6152	PANEL, CONTROL, 2+1 SWICH, SPOTTER	1
5	NM6194	POWER HARNESS, 14/3 X 20FT - 5-15P, SPOTTER	1
6	NM6188	SHAFT, WHEELS, REAR, .375 X 11.325IN, SPOTTER	1
7	NM4104	CAP, AXLE, 3/8IN, SPRAYER	2
8	PA189	WASHER, 3/8IN, FENDER, SS	2
9	NM6012	SCREW, #6-19, THREAD FORMING, PHH, SS	4
10	NM5698	SCREW, #10-32 x .500in, BHMS, SS	8
11	TBD	WASHER, LOCK, #10, SPLIT RING, SS	8
12	NM5039	NUT, 1/2IN NPT, STRAIN RELIEF, HEYCO	1
13	NM4111	SWITCH, ROCKER, 120V, SPST, WHITE & BLACK	2 †
14	NM615xx**	OVERLAY, CONTROL PANEL, SPOTTER	1

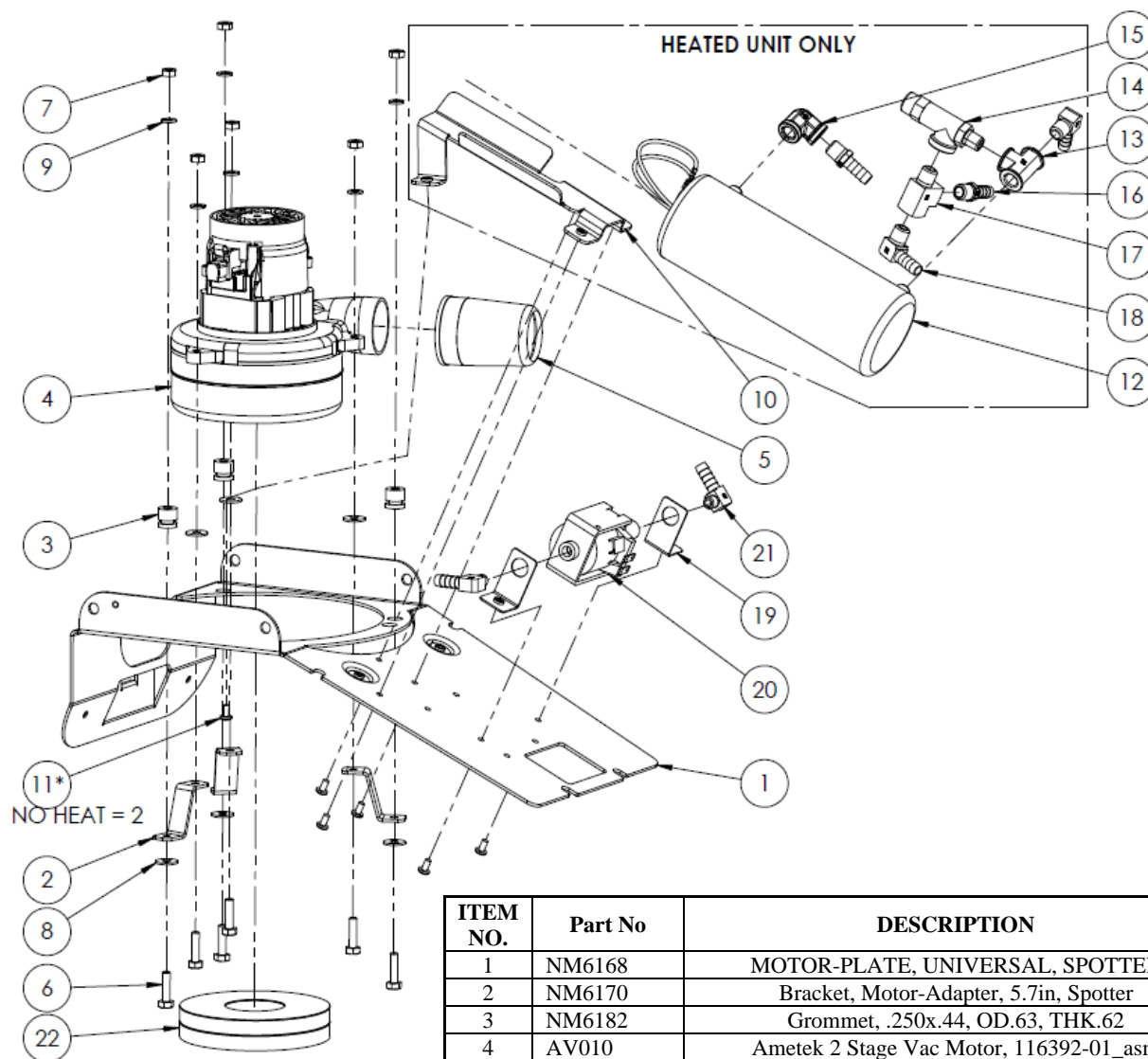
* NM6150B = GREEN / NM6150A = BLACK

** NM6155A = MA75, NM6155 = MA74, NM6154A = MA74H, NM6153 = MA72, NM6154 = MA72H

† HEATED UNITS = 3



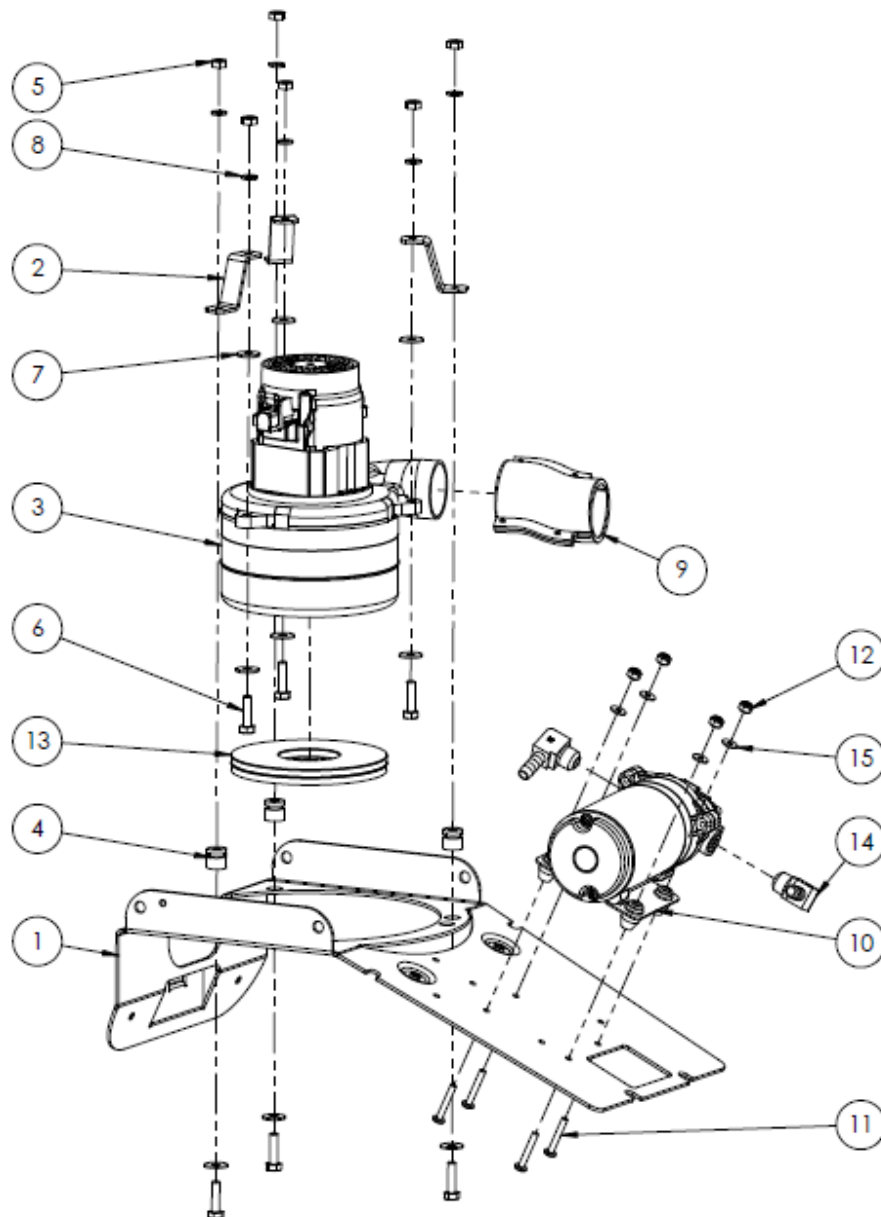
MOTOR BASEPLATE ASSEMBLY - OLYMPUS (MODELS MA72 & MA72H)



ITEM NO.	Part No	DESCRIPTION	QTY.
1	NM6168	MOTOR-PLATE, UNIVERSAL, SPOTTER	1
2	NM6170	Bracket, Motor-Adapter, 5.7in, Spotter	3
3	NM6182	Grommet, .250x.44, OD.63, THK.62	3
4	AV010	Ametek 2 Stage Vac Motor, 116392-01_asm	1
5	NM6190	Extension, VAC Exhaust, 5.7in 2-Stage, Spotter	1
6	NM6198	HEX-Bolt, 1/4-20x1x1, SS	6
7	NM4003	NUT 1/4-20_Hex_MSHXNUT 0.250-20-S-N	6
8	NM5066	Washer, 1/4in, Type B, Regular FW 0.25	6
9	NM5014	Lock Washer_1/4_Spring-Split_Regular LW 0.25	6
10	NM6171	Bracket, Heater Mount, Spotter	1
11*	NM6174	SCREW, 10-32x.375, HEX, ZI	6
12	NM6180	Heater, Cartridge, Die-Cast, 600W	1
13	BR242	TEE .250x.250x.250Fnpt_Brass	1
14	PSA100901	Valve, Pressure Relief, 175psi, 1/4" Mnpt	1
15	BR292	Elbow_90Deg_.250Fnpt_Brass	1
16	BR020	CONN, 3/8in HOSE BARB x 1/4in Male NPT	2
17	BR252	TEE_Street_.250-M-F-F_npt_Brass	1
18	BR003	Elbow, 90-deg, 3/8" Barb X 1/4" Male NPT, Brass	2
19	NM6172	Bracket, Support, 55psi Pump	2
20	AP30	FlowJet, 55psi, Piston Pump, 120V, 37-46W, UR	1
21	BR281	ELBOW_.375Barb 90Deg to .125Mnpt	2
22	NM100623A	SEAL, VAC, .250IN FOAM, WIRE MESH, SPOTTER	1

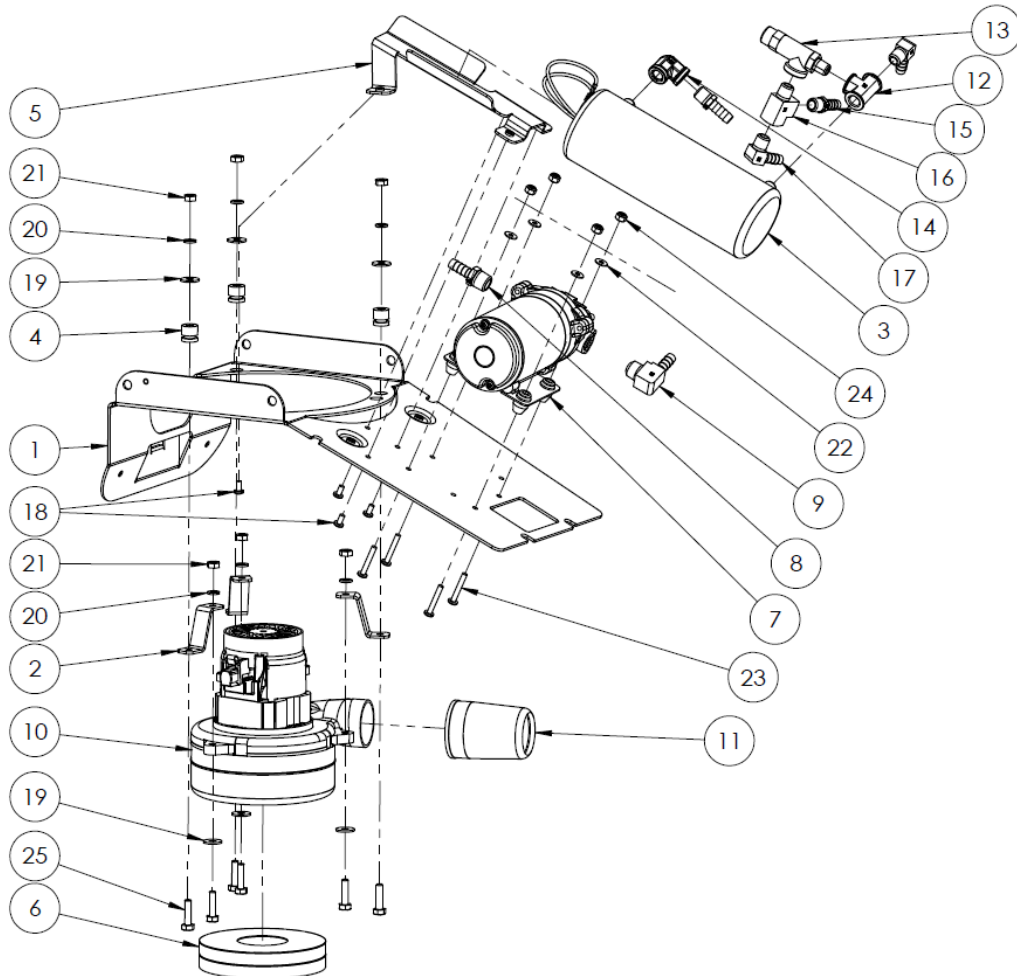
MOTOR BASEPLATE ASSEMBLY - NAUTILUS BASIC (MODEL MA74)

ITEM NO.	Part No	DESCRIPTION	QTY.
1	NM6168	MOTOR-PLATE, UNIVERSAL, SPOTTER	1
2	NM6170	Bracket, Motor-Adapter, 5.7in, Spotter	3
3	AV14	VAC MOTOR 5.7" 3 STAGE	1
4	NM6182	Grommet, .250x.44, OD.63, THK.62	3
5	NM4003	NUT 1/4-20_Hex_MSHXNUT 0.250-20-S-N	6
6	NM6198	H-BOLT, 1/4-20 X 1.000IN, HEX, ZINC	6
7	NM5066	WASHER, 1/4IN, TYPE B REGULAR	9
8	NM5014	Lock Washer_1/4_Spring-Split_Regular LW 0.25	6
9	NM6192	Extension, VAC Exhaust, 5.7in, 3-Stage, Spotter	1
10	AP120	PUMP HYDRO FORCE 120 PSI 115 V - DEMAND - 1.3 GPM	1
11	NM6174	SCREW, 10-32x.375, HEX, ZI	4
12	NM4081	NUT #10-32, Nyloc, SS	4
13	100623B	SEAL, VAC, .500IN FOAM, WIRE MESH, SPOTTER	1
14	129HB-6-6	Elbow, 3/8in Barb X 3/8" Male NPT, Brass	2
15	NM4255	WASHER, #10, NARROW, SS	4



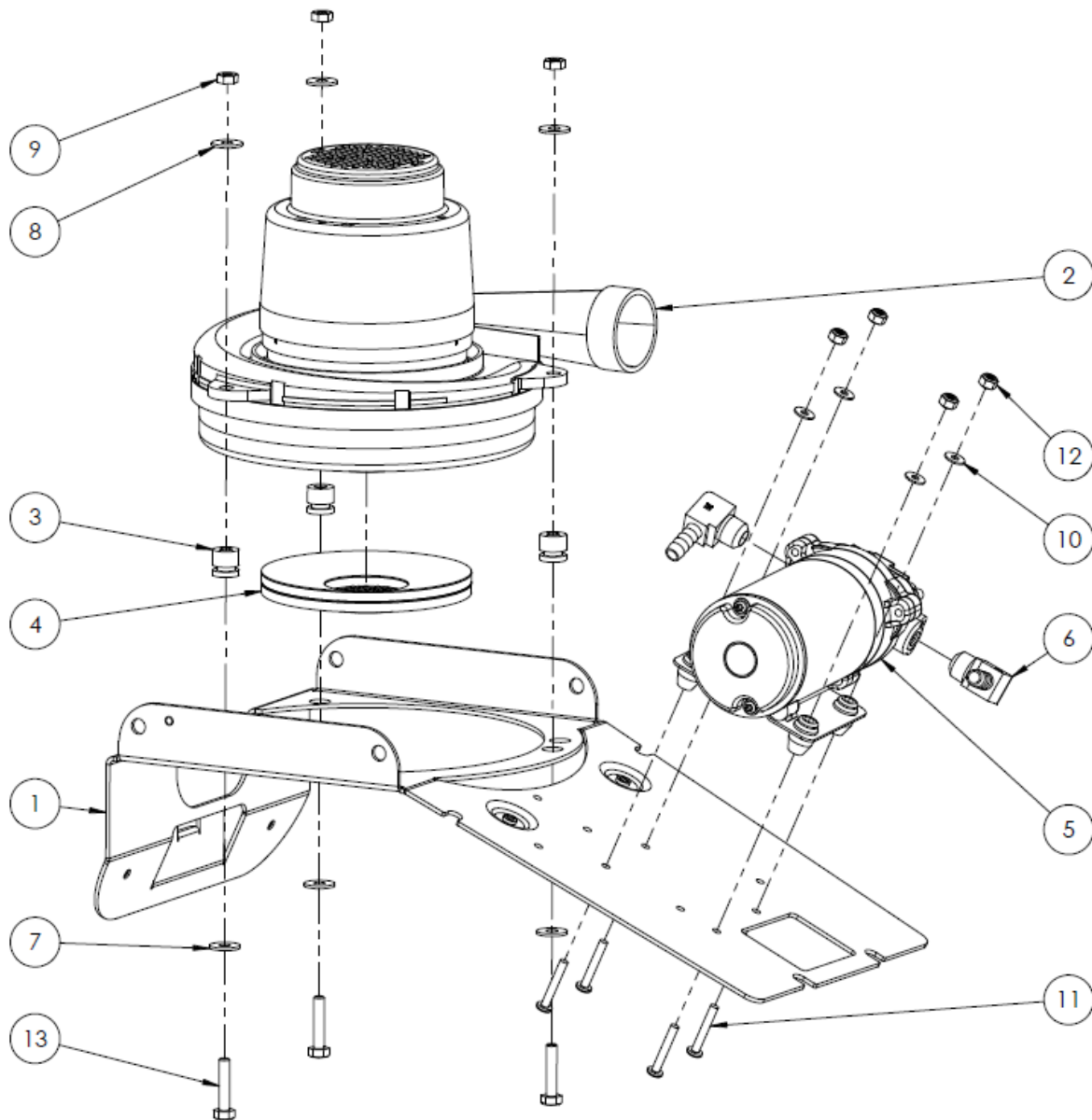
MOTOR BASEPLATE ASSEMBLY - NAUTILUS W/ HEAT (MODEL MA74H)

ITEM NO.	Part No	DESCRIPTION	QTY.
1	NM6168	MOTOR-PLATE, UNIVERSAL, SPOTTER	1
2	NM6170	Bracket, Motor-Adapter, 5.7in, Spotter	3
3	NM6180	Heater, Cartridge, Die-Cast, 600W	1
4	NM6182	Grommet, .250x.44, OD.63, THK.62	3
5	NM6171	Bracket, Heater Mount, Spotter	1
6	NM100623A	SEAL, VAC, .250IN FOAM, WIRE MESH, SPOTTER	1
7	AP120	PUMP HYDRO FORCE 120 PSI 115 V - DEMAND - 1.3 GPM	1
8	BR022	Connector, 3/8" Barb X 3/8" Male NPT, Brass	1
9	129HB-6-6	Elbow, 3/8in Barb X 3/8" Male NPT, Brass	1
10	AV010	Ametek 2 Stage Vac Motor, 116392-01_asm	1
11	NM6190	Extension, VAC Exhaust, 5.7in 2-Stage, Spotter	1
12	BR242	TEE .250x.250x.250Female NPT_Brass	1
13	PSA100901	Valve, Pressure Relief, 175psi, 1/4" Male NPT	1
14	BR292	Elbow 90Deg .250 Female NPT Brass	1
15	BR020	CONN, 3/8in HOSE BARB x 1/4in Mnpt	2
16	BR252	TEE Street .250-M-F-F NPT Brass	1
17	BR003	Elbow, 90-deg, 3/8" Barb X 1/4" Male NPT, Brass	2
18	NM6174	SCREW, 10-32x.375, HEX, ZI	4
19	NM5066	Washer, 1/4in, Type B, Regular FW 0.25	6
20	NM5014	Lock Washer 1/4 Spring-Split Regular LW 0.25	6
21	NM4003	NUT 1/4-20 Hex MSHXNUT 0.250-20-S-N	6
22	NM4255	WASHER, #10, NARROW, SS	4
23	NM6174	SCREW, 10-32x.375, HEX, ZI	4
24	NM4081	NUT #10-32, Nyloc, SS	4
25	NM6198	H-BOLT, 1/4-20 X 1.000IN, HEX, ZINC	6



MOTOR BASEPLATE ASSEMBLY - NAUTILUS EXTREME (MODEL MA75)

ITEM NO.	Part No	DESCRIPTION	QTY.
1	NM6168	MOTOR-PLATE, UNIVERSAL, SPOTTER	1
2	AV20	Vacuum Motor, 8.4in, 2-Stage	1
3	NM6182	Grommet, .250 x.44, OD .63, THK .62	3
4	NM100623B	SEAL, VAC, FOAM, WIRE MESH, SPOTTER	1
5	AP120	PUMP HYDRO FORCE 120 PSI 115 V - DEMAND - 1.3 GPM	1
6	129HB-6-6	Elbow, 3/8in Barb X 3/8" Male NPT, Brass	2
7	NM5066	Washer, 1/4in, Type B, Regular FW 0.25	3
8	NM5066	WASHER, 1/4IN, TYPE B REGULAR, SS	3
9	NM4003	NUT 1/4-20 Hex MSHX NUT 0.250-20-S-N	3
10	NM4255	WASHER, #10, NARROW, SS	4
11	NM6174	SCREW, 10-32x.375, HEX, ZI	4
12	NM4081	NUT #10-32, Nyloc, SS	4
13	NM6198	HEX Bolt, 1/4-20 x 1.25 x .75 Zinc	3



LIMITED WARRANTY

Your Spot Extractor is designed to give you years of reliable service. If a problem should arise use the troubleshooting section in the operation manual to diagnose and correct the problem if possible.

If you are unable to determine the cause or solution to the problem contact your distributor or Hydro-Force for assistance.

Hydro-Force warrants the rotational-molded tanks and base of the Spot Extractor to be free from defects in material or workmanship for five years from the date of purchase.

All other components of the Spot Extractor are warranted to be free of defects in material and workmanship for one year from the date of purchase.

During the warranty period, Hydro-Force will, at its option, repair or replace components which prove to be defective. This warranty does not provide for replacement of complete units due to defective components. Any costs for transportation or related service labor are not covered in this warranty. Replacement parts are warranted only for the remainder of the original warranty period.

This warranty shall not apply to defects resulting from improper operation, lack of maintenance, unauthorized modification, chemical incompatibility, misuse, abuse or exposure to freezing temperature conditions. It does not cover normal wear items such as o-rings, valve seals, pump seals, hoses, jets, cords, or other items which require replacement as a result of ordinary usage.

To obtain warranty service for the Spot Extractor, contact your distributor or Hydro-Force. If the extractor must be returned to Hydro-Force or an authorized service center, the purchaser shall prepay shipping charges for products returned for warranty service. No returned items will be accepted by Hydro-Force without prior authorization. All returns must have a return authorization number, issued by Hydro-Force, clearly marked on the exterior of the package.

Hydro-Force makes no other warranty either expressed or implied with respect to this product.

The remedies provided herein are the purchaser's sole and exclusive remedies. In no event shall Hydro-Force be liable for any direct, indirect, special, incidental or consequential damages.

This warranty gives you specific legal rights. You may also have other rights which vary from jurisdiction to jurisdiction.