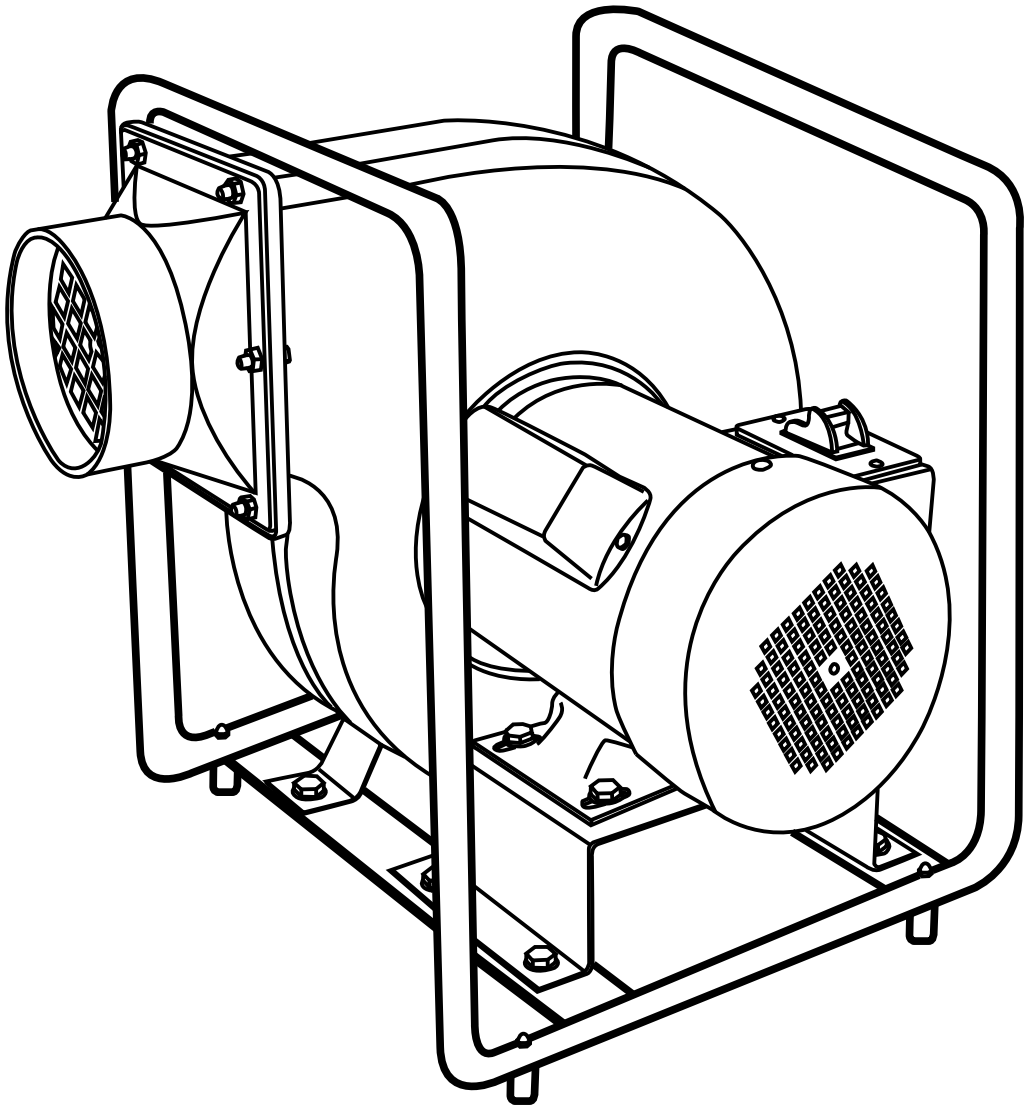
VINYL-VAC

VINYL-VAC SYSTEM



MODEL: ASP-1105

VINYL-VAC

Warranty, Specific Safety Rules & Electrical Information

WARRANTY INFORMATION

The Vinyl-Vac System has a full **1 YEAR WARRANTY** on everything against manufacturer's defects except for the tube frame around it. It is there to protect the machine. If tube frame gets broken, it has done its job. Note: If a weld breaks, fix it with a self-tapping metal screw.

Specific Vinyl-Vac System Safety Rules

When using the Vinyl-Vac System, follow these basic safety rules:
WARNING!: To reduce the risk of electric shock or injury...

1. **DO NOT USE** this Vinyl-Vac System as a water pump.
2. **PLACE THE VINYL-VAC SYSTEM** on a stable level surface.
3. **DO NOT ALLOW** the Vinyl-Vac System to be used as a toy. Close attention is necessary near children.
4. **DO NOT LEAVE** the Vinyl-Vac System plugged when not in use.
5. **TO AVOID INJURY FROM ACCIDENTAL STARTING**, unplug power cord before working on or checking any parts of the Vinyl-Vac System.
6. **DO NOT UNPLUG** by pulling on the power cord. To unplug, grasp the plug, not the power cord.
7. **TURN OFF** the Vinyl-Vac System before unplugging.
8. **DO NOT USE** this Vinyl-Vac System if the power cord is damaged. If your Vinyl-Vac System is not working as it should, has missing parts, has been dropped and damaged, or dropped in water, have it serviced by a qualified technician before using again.
9. **DO NOT HANDLE PLUG** of the Vinyl-Vac System with wet hands.
10. **KEEP HAIR, LOOSE CLOTHING** away from moving parts.
11. **CONNECT THE VINYL-VAC SYSTEM** to a properly grounded wall outlet. See grounding instructions below in the Electrical Information section.
12. **EXTENSION CORDS** in poor condition, or extension cords with an inadequate wire gauge AWG rating (caliber of cord too small), can pose fire and shock hazards. When using an extension cord, make sure it is in good condition, see recommended extension cord wire gauge AWG rating and length. See extension cord information below in the Electrical Information section.

Specifications

Model.....ASP-1105
Voltage 120V
Amperage.....7.4A
Cycle/Phase .....60Hz, 1 phase

ELECTRICAL INFORMATION

POWER SUPPLY

WARNING: YOUR VINYL-VAC SYSTEM MUST BE CONNECTED TO A 120V, 15-AMP CIRCUIT. FAILURE TO CONNECT IN THIS WAY CAN RESULT IN INJURY FROM SHOCK OR FIRE. Your Vinyl-Vac System must be properly grounded. Not all outlets are properly grounded. If you are not sure if your outlet is properly grounded, have it checked by a qualified electrician.

WARNING: IF NOT PROPERLY GROUNDED, THIS VINYL-VAC SYSTEM CAN CAUSE ELECTRICAL SHOCK, PARTICULARLY WHEN USED IN DAMP LOCATIONS.

EXTENSION CORDS

The use of any extension cord will cause some loss of power. Use the chart in Fig.2 to determine the minimum wire gauge (A.W.G-American Wire Gauge) extension cord needed. For circuits that are further away from the electrical circuit box, the wire gauge must be increased proportionately in order to deliver ample voltage. Refer to chart in Fig.2 recommended for wire length and size.

ON/OFF SWITCH WITH REMOVABLE SAFETY KEY

The On/Off switch (A) Fig.3 comes with a removable safety key (B). When the safety key is removed from the switch (only in the Off position) and placed in a safe location, unauthorized persons or children can't turn the switch to the On position. It is recommended to always remove the safety key from the switch whenever the Vinyl-Vac System is not in use.

RESET BUTTON (OVERLOAD PROTECTOR)

This Vinyl-Vac System comes with an overload reset button (C) Fig.3 (next to the On/Off Switch). If the Vinyl-Vac System motor overheats, a safety mechanism stops the motor automatically due to motor overheating or low voltage. Press the reset button and restart the Vinyl-Vac System. If the Vinyl-Vac System does not restart, wait 5 minutes to allow motor to cool down before restarting.

PROPERLY GROUNDED 120V OUTLET

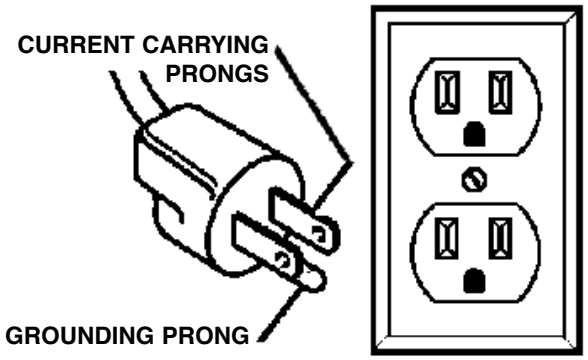


FIGURE 1

Tool's Amperage Rating	Cord Size in A.W.G.			
	Cord Length in Feet			
	25	50	100	150
3-6	18	16	16	14
6-8	18	16	14	12
8-10	18	16	14	12
10-12	18	16	14	12
12-16	14	12	-	-

FIGURE 2

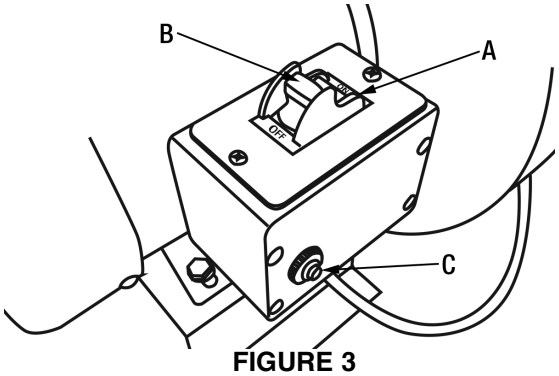


FIGURE 3

VINYL-VAC

Introduction, Assembly & Operation

INTRODUCTION & PERFORMANCE

Your Vinyl-Vac System has gone through extensive testing. Our goal is to move large amounts of air in order to handle almost any amount of leakage through walls etc. creating a proper amount of suction and maintaining it.

For example, we have set liners with 6 foot inwall steps not covered, coping not taped, skimmers and returns not taped, and still set the liner with no problem and cut in the steps dry. Even so, the more you seal off the pool from leaks, the better the suction and the more efficient the Vinyl-Vac System will perform.

Your Vinyl-Vac System is specifically designed to move air at the source. **Do not use as a water pump**.

Caution: The blower housing contains a high speed fan blade that can amputate fingers. **DO NOT OPERATE WITHOUT ALL PARTS IN PLACE**.

Your Vinyl-Vac System is designed for COMMERCIAL USE ONLY.

Your Vinyl-Vac System is wired at the factory for 120V operation. Connect to a 120V, 15 Amp. branch circuit and use a 15 Amp. time delay fuse or circuit breaker. Your Vinyl-Vac System must be properly grounded. If not properly grounded, your Vinyl-Vac System can cause electrical shock.

• Replace worn or damaged power cord immediately before using again.

• We suggest installing an inline GFI for safety and liability.

• Do not force the Vinyl-Vac System or attachments to do a job for which it was not intended or designed to do.

• Safety is a combination of common sense, staying alert and knowing how your Vinyl-Vac System works.

STEP TO FOLLOW BEFORE EVERY USE OF THIS VINYL-VAC SYSTEM

Check cap screw #523 (Refer to parts diagram in this manual) to make sure it is tight before each use. This cap screw secures the fan in place. **Note: The cap screw #523 has a left handed thread.**

It is recommended to inspect your Vinyl-Vac System before each use. If any parts are missing, bent, fail in any way, or any electrical components do not work properly, remove the power cord from the power source. Replace damaged or failed parts before using the Vinyl-Vac System again.

ASSEMBLY

Your Vinyl-Vac System is almost completely assembled out of the box. Remove the main machine and components from the box. Install the plastic outlet fitting (A) Fig.4 to the machine as shown using 6 hex. bolts, washers and hex. nuts (B). Install 4 rubber feet (diagram #510) to the bottom of the tube frame.

Your Vinyl-Vac System is now ready to operate.

OPERATION

Install a 4" tube (not included) to the machine inlet (diagram #521), do not glue these parts together. Secure with clamp (not included) or screw provided.

Place 4" tube behind liner and tape to seal off air leaks. Tube should be lowered to 1" off the pool floor with angled opening facing the pool wall.

We suggest that the tube be placed 2 feet past breakoff for best results, see drawing in Fig.5. This doesn't work with every liner installation, about 90% of the time it does, kidneys are usually the exception. You sometimes have to find your own place, depending on the fit of the liner.

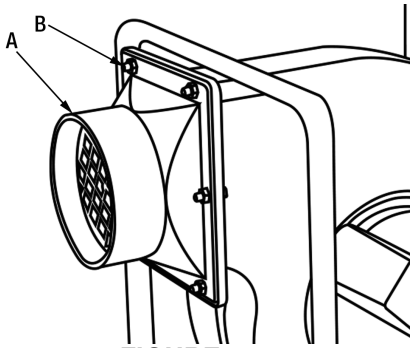


FIGURE 4

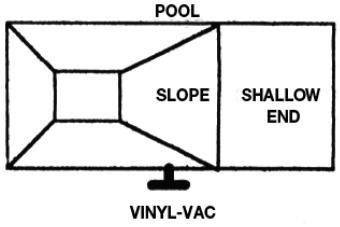


FIGURE 5

OPERATION

LINER INSTALLATION PROCEDURES

When using your Vinyl-Vac System on a new construction installation where there is no existing deck to place it close to the pool, we suggest you go to any building supplier and buy a piece of 4" weeping tile, non perforated, 2-3 feet or whatever length you need to position your Vinyl-Vac System away from the pool. Connect the other end to the Vinyl-Vac inlet.

We suggest 4" weeping tile because the ribs are shallow and rounded. After testing, doesn't restrict air flow, also its flexibility does not break down after extended use and it's inexpensive.

We do not supply the weeping tile because it is too costly to package and ship and we would have to pass this expense on to you, the dealer.

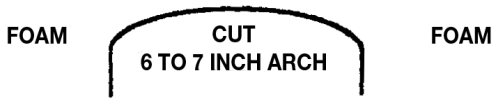
"What if I have sand bottoms?"

When installing a liner in a pool with a sand bottom, keep the 4" pipe 1" from the sand bottom and drill four 9/16" holes in the side of the pipe, 2 holes on each side, not more than 6" from the bottom. This relieves the concentration of suction from the bottom of the pipe. The reason for keeping the 9/16" holes low on the pipe is to keep the suction low on the pipe where the cove is at the bottom of the wall. The cove is the air channel around the pool.

"What if I have foamed walls, how do I keep the foam from being sucked into the pipe"

After positioning the Vinyl-Vac System cut a 6"-7" arch in the foam at the point of entry for the pipe, as shown in Fig.6, before installing the liner.

After you're finished installing the sand bottom liner we suggest you tape the 9/16" holes with duct tape to return full suction concentration to the bottom of the pipe so if your next liner installation has ground water it will be able to pick it up.



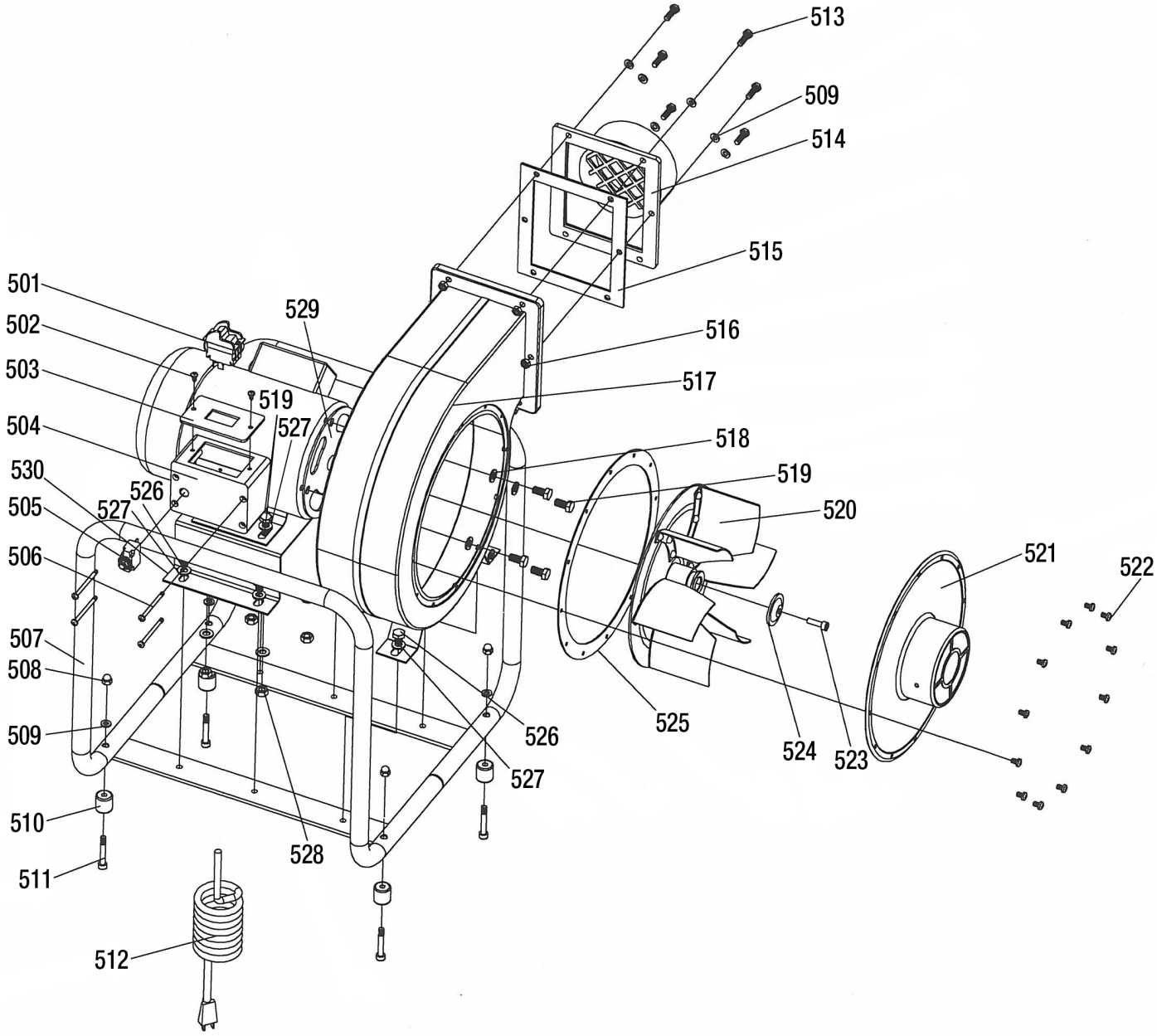
FOR TUBE INSERTION

FIGURE 6

PROBLEM	PROBABLE CAUSE	SUGGESTED SOLUTION
1. Excessive noise.	1. Motor bearings.	1. Have motor checked by qualified technician.
2. Motor fails to develop full power (low voltage).	2. Circuit overloaded with other appliances or motors. Extension cord too short or too long, or wrong gauge.	2. Do not use other appliance or motors on the same circuit when using the Vinyl-Vac System. Increase the wire gauge size of your extension cord(s).
3. Motor starts slowly and fails to come up to speed.	3. Low voltage. Switch contacts not working properly. Burnt capacitor.	3. Check voltage output with a voltmeter. Have motor repaired or replaced by qualified technician. Have capacitor replaced by qualified technician.
4. Motor overheats and trips the thermal overload.	4. Motor overloaded. Improper cooling air restricted through motor or dust build-up.	4. Check voltage output with a voltmeter. Clean dirt on motor to provide normal air circulation through the motor.
5. Motor stalls, resulting in blown fuses and tripped circuit breaker.	5. Voltage too low to allow motor to reach operating speed. Fuses or circuit breakers do not have sufficient capacity.	5. Check voltage output with a volt meter. Install proper size fuses or breakers.
6. Frequently blown fuses or tripped circuit breaker.	6. Motor overloaded. Fuses or circuit breakers do not have sufficient capacity.	6. Install proper size fuses or breakers.
7. Excessive impeller fan noise.	7. Loose or rubbing impeller fan.	7. Consult qualified service technician to repair loose or rubbing impeller. Check to see if cap screw #523 is tight. The cap screw holds impeller fan in place and has a left hand thread.

VINYL-VAC

Parts Diagram/Parts List
Model ASP-1105



No.	Order#	Description	Qty
501	68-11055010	Switch	1
502	68-11055020	Pan hd screw	2
503	68-11055030	Switch plate	1
504	68-11055040	Switch housing	1
505	68-11055050	Reset	1
506	68-11055060	Pan hd screw	4
507	68-11055070	Tube frame	1
508	68-11055080	Hex. nut	4
509	68-11055090	Washer	14
510	68-11055100	Rubber foot	4
511	68-11055110	Cap screw	4
512	68-11055120	Power cord	1
513	68-11055130	Hex. bolt	6
514	68-11055140	Outlet	1
515	68-11055150	Outlet gasket	1

No.	Order#	Description	Qty
516	68-11055160	Hex. nut	6
517	68-11055170	Fan housing	1
518	68-11055180	Washer	4
519	68-11055190	Hex. bolt	8
520	68-11055200	Fan	1
521	68-11055210	Inlet	1
522	68-11055220	Pan hd screw	13
523	68-11055230	Cap screw (LH)	1
524	68-11055240	Large washer	1
525	68-11055250	Fan housing gasket	1
526	68-11055260	Hex. bolt	6
527	68-11055270	Washer	14
528	68-11055280	Hex. nut	4
529	68-11055290	Motor	1
530	68-11055300	Motor support bracket	1