

RP2000 & 3000 SAFETY & OPERATORS MANUAL & PARTS LISTING



NOTE: DESIGN PATENTS
APPLY TO SOME PARTS
OF THIS MACHINE

DESIGNED & BUILT
IN AUSTRALIA

Archquip

Ph (07) 3217 9877

TABLE OF CONTENTS

Contents

TABLE OF CONTENTS	1
SAFETY INSTRUCTIONS.....	2
FILTER CLEANING.....	3
OPERATING INSTRUCTIONS.....	4
ELECTRICAL SAFETY	5
PROBLEM SOLVING	6
WIRING DIAGRAM	7
PARTS LISTING	8
PARTS LISTING	9
PARTS LISTING	10

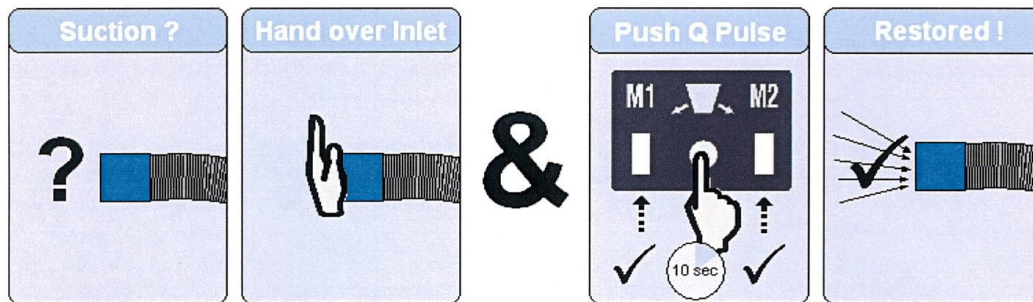
NOTE: DESIGN PATENTS
MAY APPLY TO SOME
PARTS OF THIS MACHINE

SAFETY INSTRUCTIONS

1. Read and understand the instructions on the machine and in this manual. Different models may have different parts and controls.
2. Equipment should only be operated by trained personnel, in good physical condition and mental health (not fatigued).
3. This equipment is intended for commercial use.
4. For the operators' safety and the safety of others, always keep all guards and shrouds in place.
5. This machine is intended for use with concrete dust.
6. Do not lend or rent machine without the operating instructions for the machine.
7. Wear clothing suitable for the job and for the work place including, safety shoes, hard hat, hearing protection, non fogging vented safety goggles, and dust mask suitable for dust.
8. Keep body parts or any loose clothing away from moving parts. Failure to comply could result in bodily injury.
9. Do not modify machine in any way. Only use genuine RP 3000 parts and accessories.
10. Repairs should be performed by qualified persons only.
11. Never operate machine in rain or if heavy moisture is present.
12. **WARNING!** Breathable silica may be generated by use and maintenance of this machine. Silica can cause severe and permanent lung damage, cancer, and or other serious diseases. Do not breathe the dust. Do not rely on your sight or smell to determine if dust is in the air. Silica may be in the air without a visible dust cloud. If air monitoring for silica is not provided by your employer at your work site, you must wear appropriate respiratory protection when operating or maintaining this equipment. Consult your employer for proper respiratory protection.

FILTER CLEANING

1. The Machine has a reverse pulse system that operates every 12-15 seconds.
2. In normal operation it is rare the filters will need a clean but in some circumstances the filters may become blocked and the air flow will decrease.
3. When this happens it is critical the filters are not removed but the following operation is carried out
4. If this fails to clean the cartridges your filter cleaning system may not be operating as well as it should. Please refer to your supplier for assistance.



OPERATING INSTRUCTIONS

1. Wear clothes suitable for the job and for the work place including, safety shoes, hard hat, hearing protection, non-fogging vented safety goggles, and dust respirator suitable for dust.
2. Be sure all equipment is tested and tagged prior to use on any job.
3. Connect hose to the dust extractor via a suitable 50mm dust hose. If 38mm hose is more practical, use the smaller hose after at least 2 meters of 50mm hose. This is to reduce the speed of the air coming into the machine.
4. The RP 3000 needs some restriction in the hose for the reverse pulse to perform to its maximum ability. If there is only a short length of 50mm hose, there is not enough restriction and the reverse pulse will not perform effectively. The RP 3000 work best with about 8 – 20 meters of 50mm of hose then you can use a length of 38 mm hose for about 5 meters at the grinder end. This also is better for flexibility.
5. Ensure the on/off switch is in the off position.
6. Connect machine to suitable power outlet. Only use heavy duty power lead suitable for high current use (preferably 2mm²cable), no longer than 20 meters.
7. If no power is available within the specified distance, have a qualified person install a suitable power outlet closer to your work. Alternatively use 4mm²cable for up to 40 meters.
8. Keep machine clear of drainage pits and grates or any such hazard. Failure to comply could result in bodily injury and or could damage the machine or property.
9. Do not attempt to make any adjustments while the machine is in operation. Any adjustments must only be performed when machine is stopped and power disconnected.
10. **WARNING!** Breathable silica may be generated by use and maintenance of this machine. Silica can cause severe and permanent lung damage, cancer, and or other serious diseases. Do not breathe the dust. Do not rely on your sight or smell to determine if dust is in the air. Silica may be in the air without a visible dust cloud. If air monitoring for silica is not provided by your employer at your work site, you must wear appropriate respiratory protection when operating or maintaining this equipment. Consult your employer for proper respiratory protection.

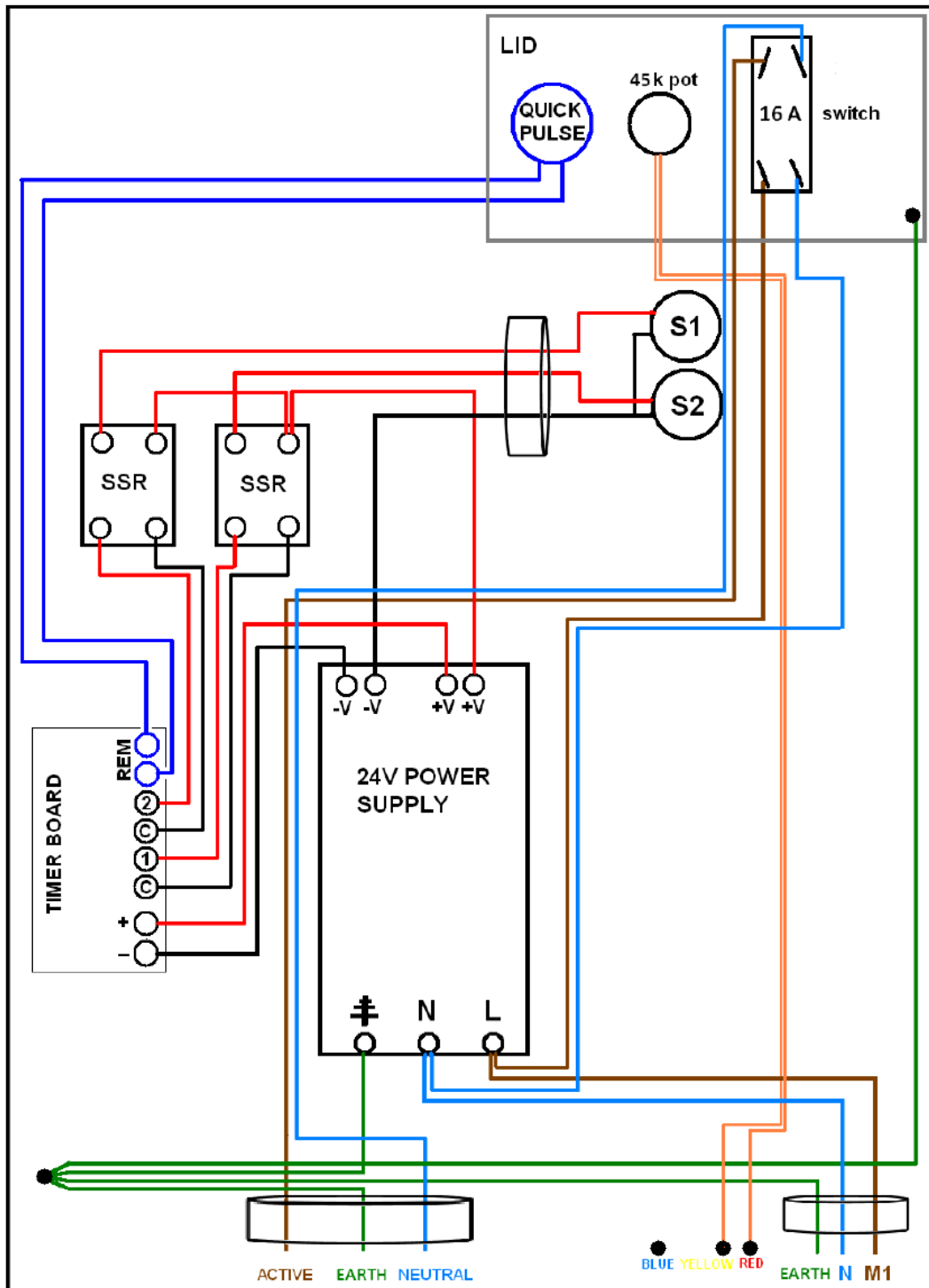
ELECTRICAL SAFETY

1. All electrical maintenance and repairs are to be carried out by qualified persons only.
2. **CAUTION** - Line terminals may be alive when main switch is in the off position. Disconnect all power at source before performing any maintenance or repairs.
3. **WARNING - DO NOT** operate the machine with any electrical panels open.
4. **WARNING** - The controls on the RP 3000 have an overload switch and will trip when there is a fault and will not allow the machine to be switched on. (Overload will automatically reset when safe to do so.
5. Continuing to use the RP 3000 when constant tripping occurs **VOIDS THE WARRANTY!**
6. The overload is there to protect you and the machine from harm. **DO NOT** alter or adjust the over load in any way. If it is faulty, only replace with original part that is identical to the faulty one.
7. Never operate machine in the rain or if heavy moisture is present.
8. Never bypass over current devices in this machine.
9. Never connect or disconnect power cables with voltage present or while under load.
10. Disconnect all power connections and observe lock out / tag out procedures before attempting to carry out any maintenance or repair on any equipment.
11. Avoid any contact with any rotating parts or driven parts.
12. Never use equipment that has not been tested and tagged (including cords).
13. Before connecting the machine to power, check the condition of all power leads and cables on, or used in conjunction with the machine. **DO NOT USE THE MACHINE** if any faults cuts, wear marks, bare wires out of plugs or sockets, etc... Get qualified persons to repair and re-tag it as required by regulations in your country.
14. Connect machine to suitable power outlet. Only use heavy duty power lead suitable for high current use (preferably 2.5 mm²cable), no longer than 20 meters.
15. If no power is available within the specified distance have a qualified person install a suitable power outlet closer to your work. Alternatively use 4 mm²cable for up to 40 meters.

PROBLEM SOLVING

PROBLEM	CAUSE	REMEDY	EXPLANATION
<i>Machine will not start / run.</i>	<i>No power is present at cable end.</i>	<i>Check the power is present with another tool.</i>	<i>Using another tool confirms power is present</i>
	<i>One of the motors have burnt out and the over load is tripping</i>	<i>Have a Qualified person replace the motor.</i>	<i>Replacing the motor eliminates the problem</i>
<i>Machine is not sucking at all.</i>	<i>The bucket is not on.</i>	<i>Make sure the bucket is correctly positioned on the main bowl and firmly against the seal.</i>	<i>If the bucket is not against the seal firmly air can come in and reduce the air flow and or suction.</i>
	<i>The seal is missing at the bucket.</i>	<i>Check the seal by eye and feel around the seal area for leaks and replace or re fit.</i>	<i>If the seals are not correctly fitted or missing the air flow and or suction will be greatly reduced.</i>
	<i>The filters are blocked.</i>	<i>Run the machine with the inlet mostly block off. Do not completely block off; allow some air in. Run for at least 2mins.</i>	<i>The reverse pulse works much more efficiently at this level of suction thus cleaning the filters.</i>
	<i>The reverse pulse system not working correctly.</i>	<i>Have Qualified persons check the machine system and rectify the problem by replacing the faulty part.</i>	<i>Restores the reverse pulse to its original performance and then it can effectively clean the cartridges.</i>
<i>The RP 3000 seems to have lost suction over a period of time on the job.</i>	<i>The RP 3000 needs restriction from the hoses to work efficiently when picking up a lot of dust.</i>	<i>Fit 50 mm hose onto the dust extractor for 8-20 meters and no less than 2 meters, and then add 38 mm hose for 5 meters. See points 3. & 4. on page 3</i>	<i>The RP3000 needs restriction from the hoses to increase the effectiveness of the reverse pulse.</i>
	<i>The dust bin is over full.</i>	<i>Empty the dust bin.</i>	<i>The RP 3000 has a cyclone built into the bowl system to reduce the load on the filter cartridges; If the bin is full it can't work properly thus the filters block up.</i>

WIRING DIAGRAM



PARTS LISTING RP3000



PART NO.	DESCRIPTION
300001.	Main body shell
300002.	Bowl upper
300003.	Bucket
300004.	Bucket seal
300005.	Bowl upper screws (x 12)
300006.	Castor 50mm
300007.	Castor screw M10x20
300008.	Wheel 200 mm
300009.	Wheel retaining screw
300010.	Wheel retaining washer
300011.	Axle 585mm
300012.	Castor 75mm
300013.	Castor screw M6x20
300014.	Grab handle
300015.	Grab handle screw
300016.	Back panel
300017.	Valve assembly.
300018.	Valve retain screw
300019.	Connector 4 way
300020.	Filter no5
300021.	Filter bracket
300022.	Filter wing nut M8
300023.	Electrical box complete
300024.	Gland with support PG21
300025.	Power lead incl. plug 10A
300026.	Gland M 20 (x3)
300027.	Switch 16A
300028.	Timer board
300029.	Power supply
300030.	S.S. Relay
300031.	Knob for potentiometer
300032.	Dial for knob
300033.	PCB spacer
300034.	Connector 4 way
300035.	Motor power clamping
300036.	Motor hose clamp
300037.	Motor FLOTEC®
300038.	Motor mounting screw
300039.	Motor mounting brackets
300040.	Muffler rubber mounting
300041.	Suction x 38mm
300042.	Elbow 80mm. (x2)
300043.	Muffler 80mm
300044.	Muffler material
300045.	Hose clamp 70mm
300046.	Bucket arms
300047.	Bucket arms screw M8
300048.	Lifting spacer
300049.	Lifting screw
300050.	Bucket catch
300051.	Bucket catch screw
300052.	Handle 1"
300053.	Button Q pulse
300054.	Potentiometer 45 K

NOTE: DESIGN PATENTS APPLY TO SOME PARTS OF THIS MACHINE