

AC10030



## OWNER'S MANUAL AND OPERATING INSTRUCTIONS

**Air Compressor**

**100L 3HP BELT DRIVE**



**WARNING: SAVE THIS MANUAL FOR FUTURE REFERENCE**



This manual contains important information regarding safety. Operation, maintenance, and storage of this product. Before use, read carefully and understand all cautions, warnings, instructions, and product labels. Failure to do so could result in serious personal injury and/or property damage.

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## Thank you for your Purchase.

Powerbuilt would like to thank you for purchasing the AC10030 air compressor.

This manual is designed to guide you through using your new machine.

## UNPACKING YOUR COMPRESSOR



### Contents:

- Air Compressor
- Handle
- Dashboard
- Transfer air hose
- Wheels x 2
- Rubber front foot x 2
- Wheel axle, nut and washer x 2
- M8 Bolt, nut and washer x 2
- Owners manual (not shown)



Please check all contents are correct and damage free before first use, if any issues please contact your local dealer.



## WARNING HAZARDS AND SAFETY

### **Read all safety warning and all instructions.**

This Operating Manual has been designed to instruct you on the correct operation of your Powerbuilt product. Your satisfaction with this product and its safe operation is our ultimate concern. Therefore, please take the time to read the entire manual, especially the safety symbols and instructions. They will help you to avoid potential hazards that may exist when working with this product. Every effort has been made to ensure that information in this manual is accurate and current. However, we reserve the right to change, alter, or otherwise improve the product and this document at any time without prior notice. Failure to follow the warning and instructions may result in electric shock, fire and or serious injury to you or others.

**Save this manual for future reference.**

### **WORK AREA SAFETY**

- Ensure your work area is clear, dry and free of trip hazards.
- Do not operate the compressor in dangerous environments.
- Ensure the area is well ventilated, and all flammable materials are removed to a safe distance, normal sparking of the electrical motor could ignite fumes.
- Keep children and other visitors away. Do not let children or others contact the compressor, electrical lead or air leads.
- Never leave your compressor running unattended.
- Keep guards in place and in working order. Never operate this product with any guard or cover removed. Make sure all guards are intact and operating properly before each use.
- Remove adjusting tools and wrenches. If any adjustments or maintenance has been performed, make sure that all tools and adjusting wrenches are removed from product before use.
- Keep the work area clear of all persons, particularly small children, and pets.
- Only use product for its intended use.
- Don't force product or attachment to do a job it was not designed for.

### **PERSONAL SAFETY**

- Use proper clothing. Wear long pants and long sleeves. Do not wear loose clothing, neckties, or jewelry. They can get caught and draw you into moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Do not operate the equipment while barefoot or when wearing sandals or similar lightweight footwear.
- Always wear proper eye protection with side shields marked to comply with the correct AS/NZS STANDARDS. Following this rule will re-duce the risk of serious personal injury.
- Also wear protective hair covering to contain long hair.
- Stay alert, watch what you are doing. Do not use this tool when you are tired.
- Protect your lungs, wear a dust mask when operating product in dusty environments.
- Protect your hearing, wear hearing protection during extended periods of operation.
- Do not overreach. Keep proper balance and footing at all times.
- Use only recommended accessories with this product. The use of improper and or modified accessories may cause risk of injury.



## ELECTRICAL SAFETY



### ELECTRICITY CAN KILL

- Guard against electrical shock by preventing body contact with grounded surfaces, e.g., pipes, radiators, ovens, refrigerator enclosures.
- Do not abuse cord. Never carry or drag the compressor by the cord or yank it to disconnect from wall socket. Keep cord away from heat, oil, and sharp edges. Do not drive over or place heavy objects on electrical cord.
- Should any electrical component of the compressor fail to perform properly, shut off the power switch, remove the plug from the power source and replace/repair before resuming operation.
- Do not expose compressor to rain or wet conditions. Water entering the electronics will increase the risk of electric shock and damage the compressor.
- it is recommended that the compressor be connected to an RCD.

## AIR COMPRESSOR SAFETY



### WARNING

- **This air compressor does not produce breathable air.** Breathing compressed air is dangerous and can cause harm.
- Hot surfaces are present. DO NOT touch the motor, cylinder, heads and tubes as harm may occur from burning.
- DO NOT use in potentially explosive atmospheres. Ensure that the atmosphere is free from combustible gases and high concentrations of fine dust.
- Never apply the outlet air of this compressor directly on to any part of a person's body. Do not attempt to block the air outlet with your finger or any part of your body.
- Do not attempt to adjust the pressure switch or the release valve located under the pressure switch cover.
- Drain the moisture from the tank after use. It will help prevent corrosion and increases tank capacity.
- Pull the ring on the safety valve daily to ensure that it is operating properly and to clear any possible debris from the outlet.
- Keep the compressor at least 300mm from the nearest wall to ensure adequate ventilation for cooling purposes.
- Before transporting the compressor make sure that the pressurized air is bled from the tank and that the compressor is firmly secured.
- Protect the air hose and electrical lead from damage. Inspect for weak or worn spots regularly and replace if necessary.
- Always plug the compressor directly into the electrical outlet.
- Avoid using an extension cord with this product. Use additional air hose instead of an extension cord to prevent power loss and possible damage to the motor.

## TECHNICAL DESCRIPTION

SPECIFICATION	UNITS	AC10030
Drive		Belt Drive
Motor	Winding	Copper
Tank Size	L	100
Horsepower	HP	3
Motor RPM	RPM	2850
Pump RPM	RPM	1030
Air Pressure	PSI	0-120
Displacement	CFM	312 L/min (11 CFM)
Free Air Delivery	@ 90 PSI	242 L/min @ 90 PSI
Bar	Bar	8
Wheel Size	mm	200
Voltage		230V/50Hz
Plug	AMPS	15A
N.W	Kg	72
G.W	Kg	75
Size (L x W x H)	mm	1160 x 380 x 720

## PERFORMANCE AND DUTY CYCLE

This medium duty compressor is not designed for continuous use, spray equipment or heavy-duty air tools. Attempting to use air tools with a requirement of over 242L/min Free air delivery will reduce the performance of the air tool.

### Pressure Cycle

The compressor forces air into a storage tank, increasing the pressure until it reaches an upper pressure limit at which the compressor shuts off. When the compressed air is being used by a tool the pressure decreases until the tank reaches its lower pressure limit, at that point the compressor turns on (via the pressure switch) to re-pressurize the tank. This is the compressor pressure cycle.

Compressing air produces heat if the compressor is used outside its duty cycle and the heat is not managed the compressor will be damaged. When the compressor turns off (via the pressure switch, after reaching maximum tank pressure) it has time to cool down while the air in the tank is being consumed. When a tool consumes the stored air quickly the time for cool down is reduced because the unit needs to restart to repressurize. If too short a time is dedicated to the cool down phase the compressor can overheat and become damaged.

### Duty Cycle

The ratio between the pressurization and cool down phases is called the Duty Cycle.

To determine whether we need a Trade or DIY compressor we must first understand duty cycles. The duty cycle is a 10 min test. How long over a 10min period is the pump/tool running for.

- 2 min on – 3 min rest – 2 min on – 3 min rest = 40% Duty Cycle.
- 5 mins on – 5 mins rest = 50% Duty Cycle.
- 1 min 30 sec on 8 mins 30 sec rest = 15% duty cycle.

Whilst running a vehicle in the red zone all the time is great to get you where you need fast!! It dramatically shortens the life of the vehicle's engine. The same is said with duty cycles – to obtain the best life and performance out of your tool or compressor purchase a compressor that suits your application. If you think you'll be using high air consumption tools in a continuous manner consider a compressor with a higher FAD rating and/or larger storage tank to reduce the risk of wearing out or overheating the unit.

**Direct Drive compressors:** have the pump joined directly to the motor. This means the pump runs at 2800 RPM with a short piston stroke. This style of compressor has a duty cycle of 30-40% or is designed to run for short periods of continuous use – no more than 10mins of continuous pumping.

**Belt Drive compressors:** have the pump and motor separated. This allows the pump speed to be reduced to 1030RPM and allows for increased piston stroke, resulting in larger air deliveries compared to the direct drive style. Due to the slower speeds of the pump the compressor will produce cooler air with less moisture. Belt drive compressors have increased duty cycles 50-60%.

## INPUT PLUG

The compressor is fitted with a **10amp** plug. This machine is designed to work with **10amp** wall sockets. It is important that the machine is plugged directly into the mains plug.

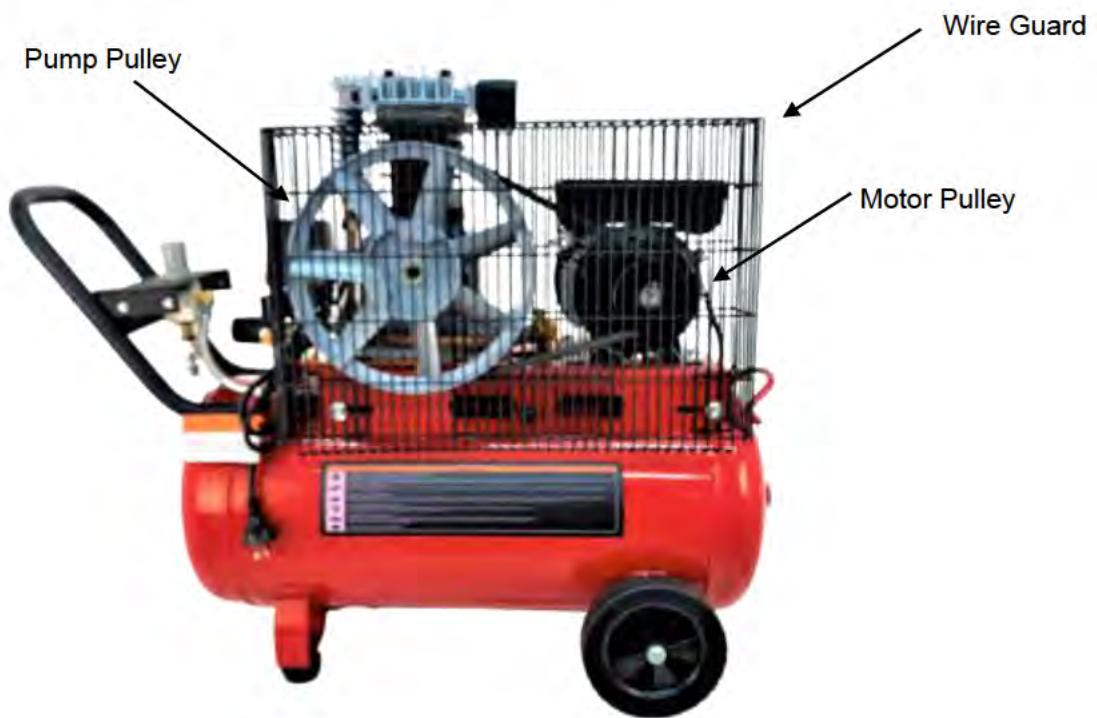
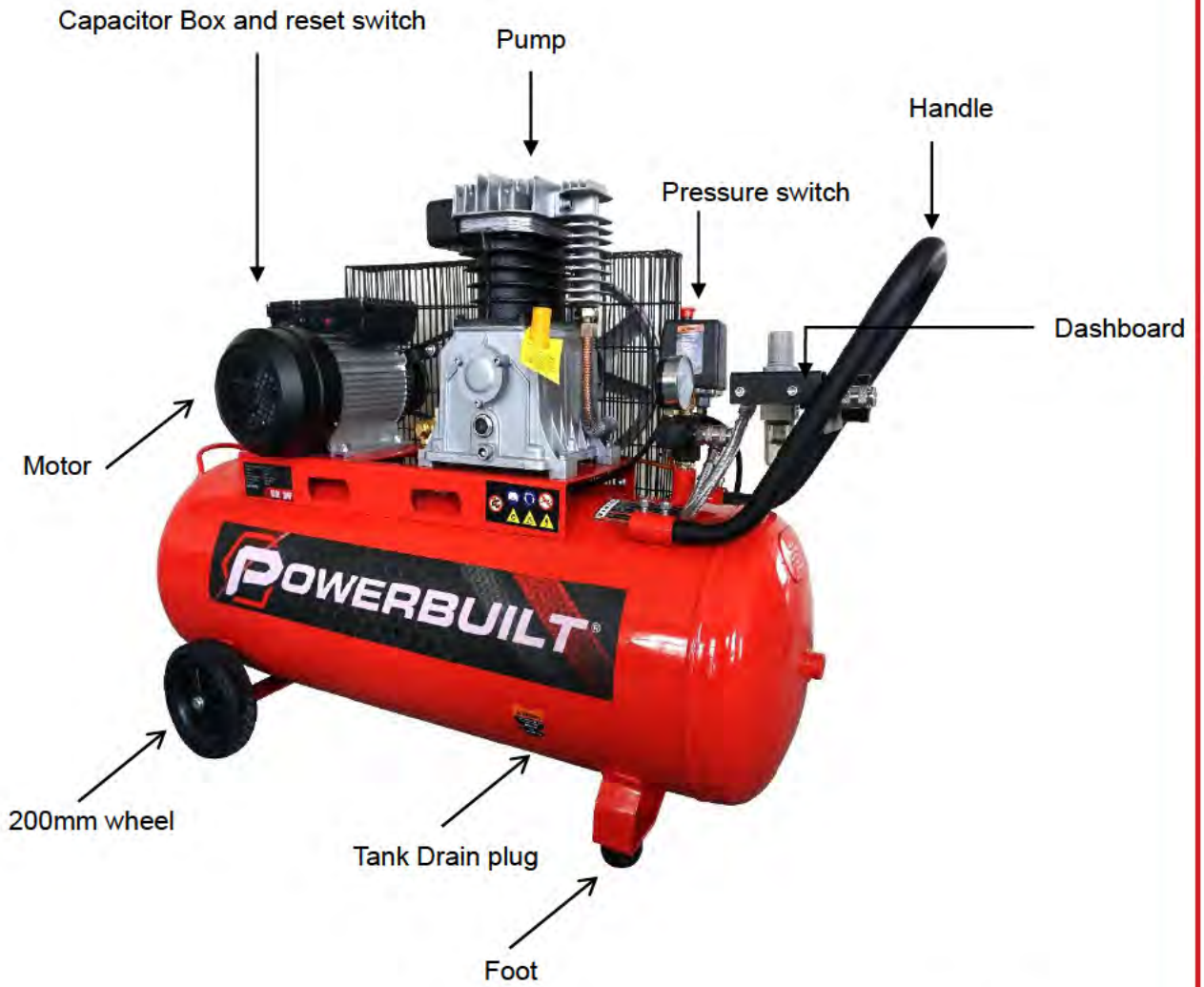
Avoid using an extension cord with this product. Use additional air hose instead of an extension cord. Using extension cords will reduce the input voltage (known as voltage drop) and this will void the warranty of your machine.

**Any modification to the 10amp plug on this compressor will void warranty.**

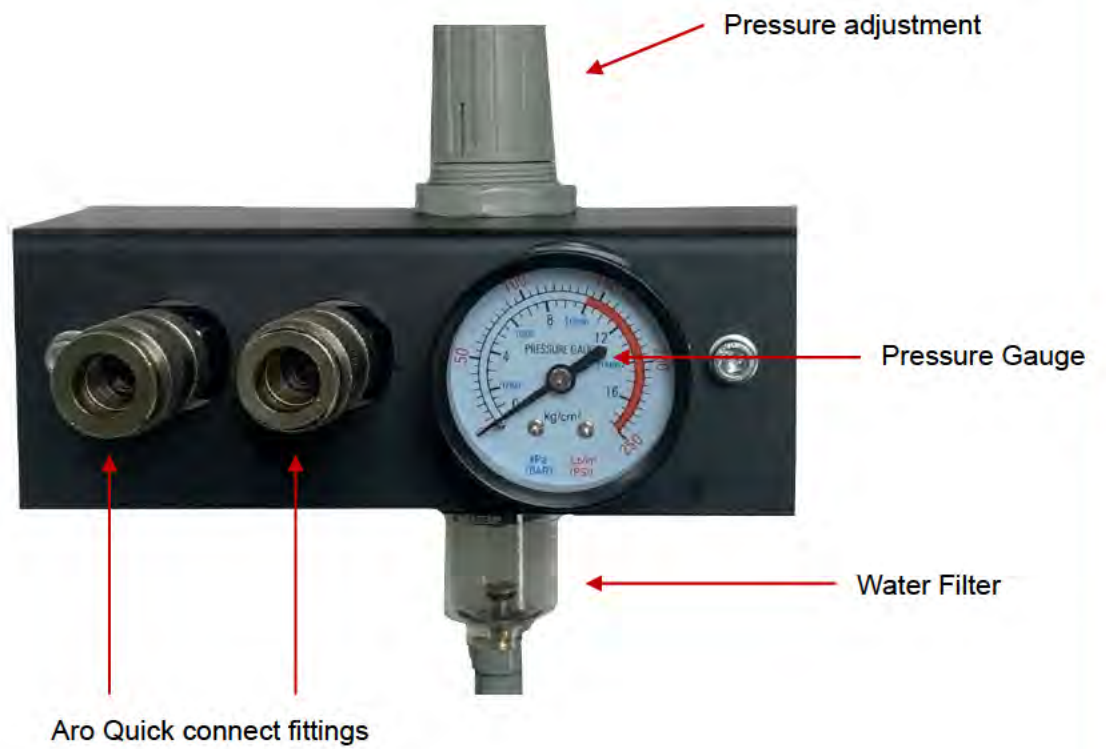
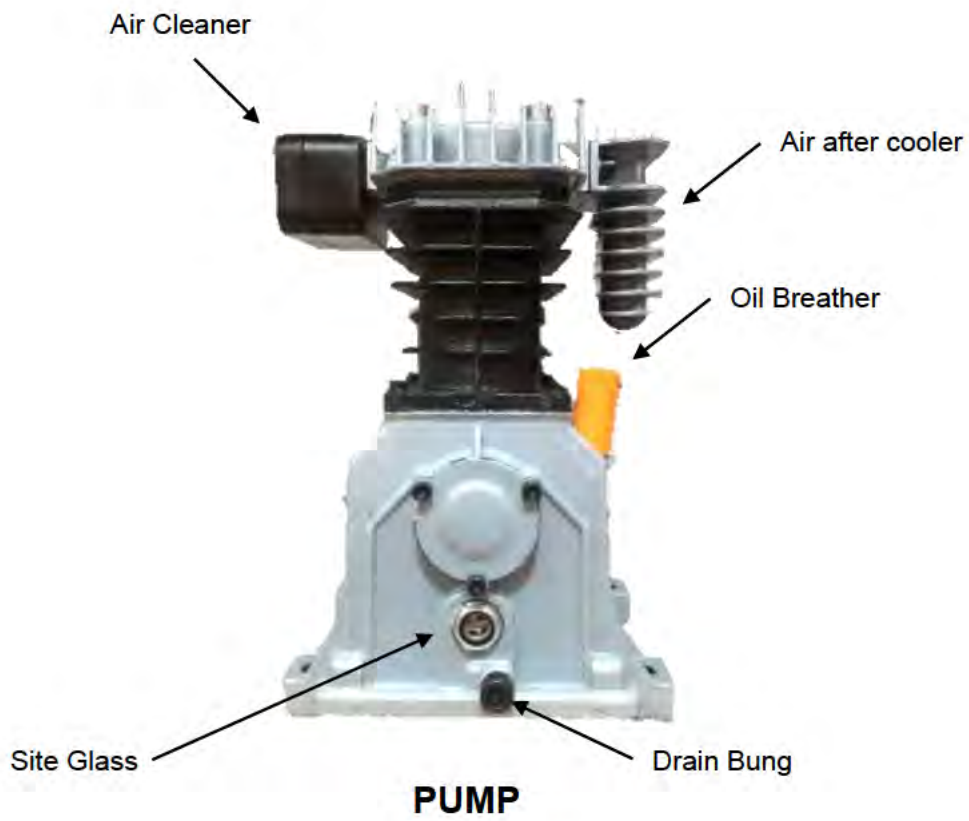
## OPERATING ENVIRONMENT

- Operating temperature: -10°C~40°C.
- Transportation and storage: -25°C~55°C.
- Relative air humidity: 40°C ≤ 50%; 20°C ≤ 90%.
- The dust, acids, corrosive gases and substance in the ambient air must be not higher than normal level.
- Altitude must be less than 1km.
- Good ventilation around the machine, at a distance of at least 300mm around.
- Compressor must be kept on a level surface to reduce the risk of the machine falling.

# MACHINE LAYOUT







## ASSEMBLY



### WARNING

Do not connect to the power supply until the unit is completely assembled and all safety checks have been performed.

### INSTALLING THE FEET

- Insert the M8 Bolt into the rubber foot with the thread exiting at the top.
- Insert the bolt from the foot into the supporting bracket located on the bottom of the compressor.
- Place the washer and nut onto the bolt and tighten
- Repeat for the other foot.



### INSTALLING THE WHEELS

- Insert the Axle bolt into the wheel and locate onto the tank bracket.
- Place the washer and nut onto the bolt and tighten.
- Ensure the wheel spins freely.
- Repeat for the other wheel.



### INSTALLING THE DASHBOARD

- Remove the protective plastic cover from the handle.
- Unscrew the four metal thread bolts and nuts from the dash board, locate the dashboard on the handle with the gauge towards the front of the handle, re install metal thread bolts and nuts, tighten.
- Screw on the Air transfer Hose to inlet fitting on the air regulator/water trap on the dash board. Tighten.





## INSTALLING THE HANDLE

- Unscrew the 4 handle retaining screws (2 on each side) to allow the handle to slide into the retaining tubes.
- Carefully slide the handle into the retaining tubes, the handle will flex to align with the retaining tubes.
- Tighten the retaining screws
- Screw on the Air transfer Hose to outlet fitting on the tank (receiver) and tighten



## FILLING COMPRESSOR WITH OIL



### **WARNING**

There will be some residual oil from the pump manufacture, testing and lubrication. Do not operate until the oil is filled to the correct level.

Your compressor comes complete with oil in the pump.

- Remove and dispose of the travel bung.
- Install the oil breather and screw hand tight – do not over tighten
- Check oil and top up if required, until the correct level is reached.

The middle of the red dot is the maximum oil level. The bottom of the red dot and below indicates the oil is below the recommend level and oil should be added.





## STARTING AND STOPPING COMPRESSOR



### **WARNING**

Always plug your compressor directly into you the power socket. Never use an extension cord as this will lead to voltage drop, reducing the available power to your compressor. This may overheat or burn out your air compressor motor. Use additional air hoses to get to your work area.

Always start and stop your compressor by the pressure switch do not use the ON /OFF wall socket switch as the main control for the compressor. The pressure switch releases pressure between the non-return valve on the tank and the pump head, starting your compressor motor with zero pressure, enhancing motor life. It is normal to hear a short hiss when the motor stops. The pressure switch starts the motor when the air tank (receiver) drops below the factory set cut-in pressure and stops the motor when the tank pressure reaches the factory set cut-out pressure.

Note: The pressure switch operation is related to motor horsepower, tank rating and safety valve setting. Do not attempt to adjust remove or by-pass the pressure switch, or change and modify any pressure control related device.

### **TO TURN ON**

- Lift up the RED ON / OFF switch located on top of the pressure switch.

### **TO TURN OFF**

- Push down the RED ON / OFF switch located on top of the pressure switch.

Down is OFF



Up in ON



### **CHECKING THE SAFETY RELIEF VALVE (if fitted with ring)**

The pressure relief valve will automatically release air if the tanks (reciever) exceeds the maximum preset by the factory. The valve should be checked daily before use by pulling the ring on the valve by hand. Wear safety glasses and hearing protection when testing.

- Start the comprsser and let the tank fill untill the pressure switch shuts off the compressor.
- Turn the compressor off.
- Pull the ring on the safety valve holding the valve (pin) open for 5 seconds – air should escape rapidly. Release the ring and air should stop.
- If the pin remains open push the pin back in (this should only need to happen at high pressure).
- If the valve continues to leak and the pin can not be acuated by the ring, do not use the compressor until the safety valuve is replaced. Using a compressor with a faulty valve can result in serious injury.



## AIR PRESSURE REGULATION AND HOSE CONNECTION

Your Powerbuilt compressor is fitted with 2 Aro quick connect couplers and 1 air regulator/water trap on the dash board. Also your compressor is fitted with one unregulated Aro quick coupler for max pressure applications.

### TO ADJUST PRESSURE ON THE DASH BOARD

- Lift the pressure regulator knob and rotate to the desired outlet pressure, this will adjust the pressure to both Aro quick connect couplers, ensuring you get the desired pressure.
- Turn the knob clockwise to increase the pressure and anti-clockwise to decrease the pressure.

It is always recommended to use the minimum amount of pressure necessary for your intended application. Using higher pressure than required will only drain the tank faster and cause the compressor to cycle more frequently.

### CONNECTING AIR HOSES

- Ensure the air hose has a male ARO Quick connect fitting connected to the air hose.
- Slide and hold the outer collar towards the compressor.
- Push in the male ARO fitting. Release the collar, continue to push the male fitting into the female fitting until you hear a click.

Even a small leak wastes a large amount of air, you will enhance the life of your compressor if you keep all outlets, hoses, couplings and air tools free from leaks. Even a small 1.5mm pin hole at 120PSI will waste nearly all of the output from a 2hp compressor. If you notice a fall-off in the performance of your compressor, first check your system for leaks.





## MAINTENANCE



### **WARNING**

ALWAYS DISCONNECT FROM POWER, RELEASE ALL PRESSURE AND ALLOW UNIT TO COOL BEFORE CARRYING OUT ANY MAINTENANCE.

## REPLACING PUMP OIL

Replace the oil after the first 10 hours of operation and every 120 hours following the first oil change.

If the oil colour changes (**whitening** – water present, **Black** – severe over heating) change the oil immediately.

The sight glass indicates the oil level and lets the operator check if oil should be added.

- Place a suitable container underneath the drain bung to collect the used oil.
- When the used oil has drained, reinstall the drain plug and tighten with a hex key..
- Fill the pump with an approved SAE-30 oil until the oil is at the middle of the red dot. The oil will take about a minute to drain down and settle.
- Recheck oil and top up if required, until the correct level is reached.



Sight Glass

Drain plug

## CLEANING / REPLACING AIR FILTER

### **NEVER RUN YOUR COMPRESSOR WITHOUT AIR FILTERS**

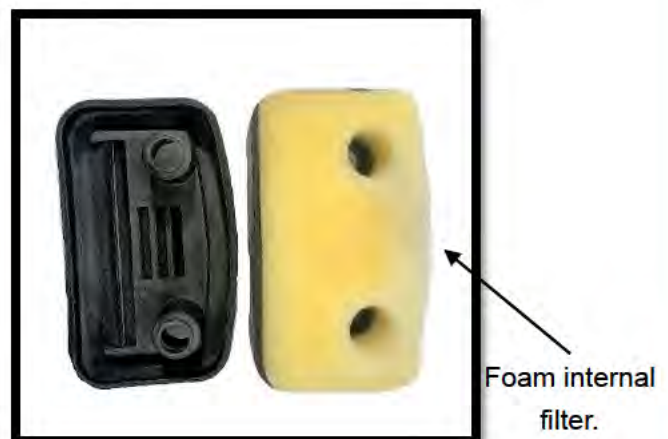
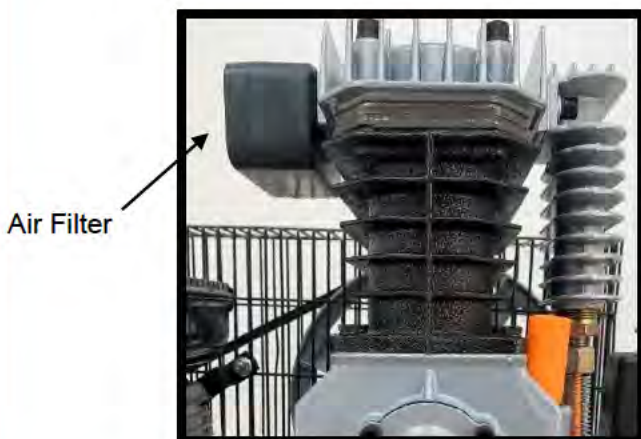
The air filter prevents dust, dirt and small items being drawn into the compressor – dirty air filters reduce the amount of air flowing into the compressor and will dramatically reduce your compressor's performance.

#### **Normal environment.**

Check and clean filter once a month, replace damaged or heavily clogged filters.

#### **Dusty environment.**

Check and clean filter weekly, replace damaged or heavily clogged filters.





## DRAINING THE TANK

To prevent the tank from corrosion and reduce moisture in the air Delivery, the air tank should be drained daily or if working in high heat and humidity drain the tank more often.

- Turn the air compressor off and unplug.
- Drain most of the air from the compressor until about 1.5bar or 22 psi is left in the tank.
- Move the compressor to an area that wont be effected by the moisture and air flow.
- With safety glasses on Turn the valve to the OPEN position (down).
- If your compressor is to be stored for long periods of time leave the safety valve open to allow moisture to drain. It might pay to leave a small container under the compressor if its to be stored with the valve open.

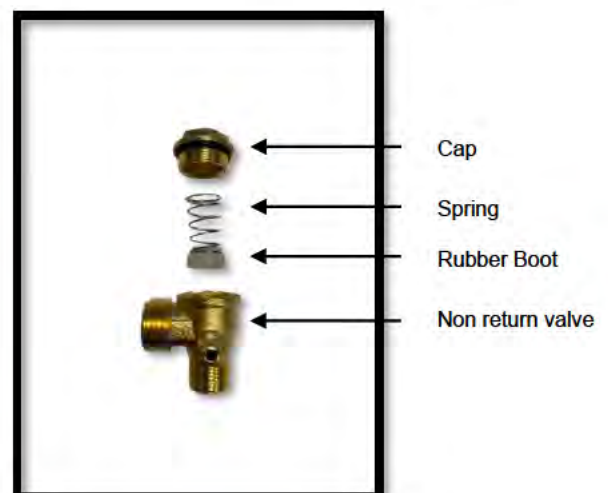
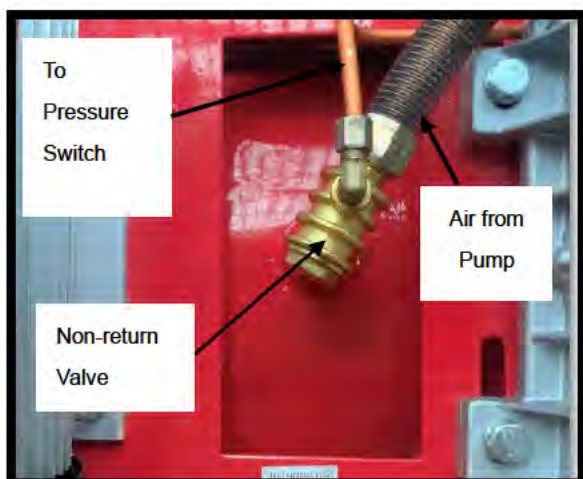


## PRESSURE SWITCH – NON RETURN VALVE

Pressure switches are fitted with a soft start valve which will release air from the switch until approximatley 20PSI of pressure is reached, then they cut off.

If pressure switch continues to release air even when switched off it is possible the non return valve needs to be cleaned or replaced if damaged.

- Unplug the compressor from the mains switch.
- **Drain all air from the compressor – Failure to do this can result is serious injury or damage to you or those around you.**
- Open the tank drain valve to ensure the tank is completely drained of all air.
- Remove cap on the non return valve, remove spring and rubber stopper.
- Inspect brass valve for loose material stopping the boot from sealing against the valve. Check the boot for cuts or miss formation – replace if required.
- If the valve continues to leak once this procedure is followed take compressor to local serice agent for inspection and repair.



## NUTS AND BOLTS

### CHECK COMPRESSOR'S SCREWS, NUTS AND BOLTS ARE TIGHT

After 5 hours of operation and 50 hours there after check screws, nuts and bolts are tight, particularly the ones securing the Pump Head and Base, this will reduce vibration noise and increase service life of your compressor.

### TIGHTENING HEAD BOLTS

When Tightening pump head bolts use a criss cross pattern, this will help prevent air leaks between the head and the gasket. If the head needs removing for inspection of the reed valves – always replace the gasket, lightly tighten all head bolts in a criss cross pattern, pulling the head down evenly and then fully tighten bolts in a criss cross pattern.

## BELT ADJUSTMENT

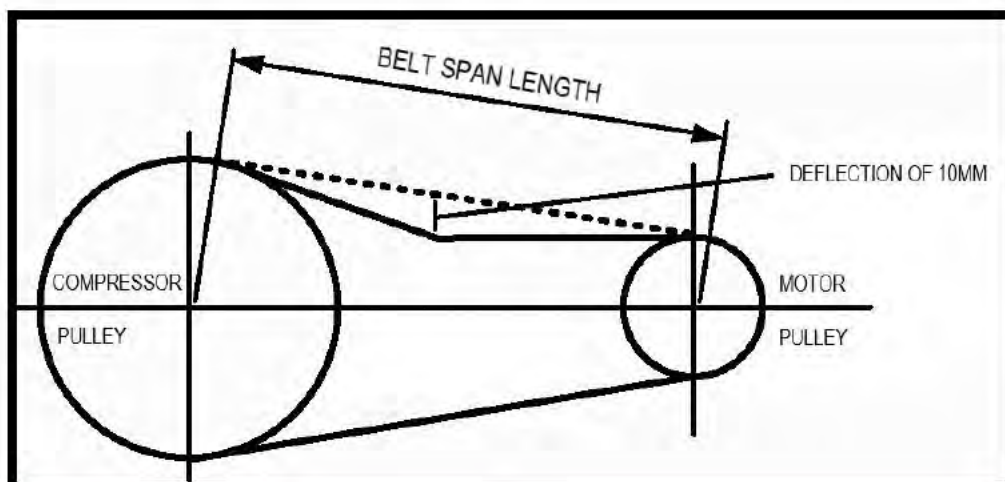
### CHECKING BELT TENSION

Check belt tension occasionally, especially if compressor performance drops and your air filters are clean. A poorly fitted belt will slip, resulting in less drive to the compressor pump pulley, this can make the compressor run continuously trying to obtain the shut off pressure, resulting in the compressor motor/pump over heating. V belts should be adjusted to allow about a 10mm deflection when pushed by a finger in the middle of the belt span.

- Unplug the compressor from the mains switch.
- Remove the Wire belt guard.
- Lay a straight edge across top surface of the belt.
- Push down on belt in the middle of the span and measure the deflection.
- If the deflection is correct, refit the wire belt guard (compressor must not be run without the gaurd installed).

### BELT TENSIONING

- With the compressor unplugged from the mains and the wire belt guard removed.
- Loosen the motor anchor bolts, push the motor away from the pump and retighten anchor bolts.
- Lay a straight edge across the top surface of the belt, recheck belt tension, readjust as required.
- Ensure that both pulleys are properly aligned and the belt is running true.
- Refit the wire belt guard (compressor **must not** be run without the gaurd installed).





## TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Compressor does not run	No Electrical power	Check unit is plugged in and power point turned on Check fuse/circuit breaker
	Motor overload protection has tripped	Ensure compressor is plugged directly into the wall socket – not extension lead Let motor cool and overload protection switch will reset
	Faulty pressure switch	Replace pressure switch
	Tank is full of air	Compressor will only turn on when tank pressure drops to below cut in pressure
	Faulty capacitor in motor	Return to Reseller/Authorized Service agent for inspection and repair
	Faulty motor	Return to Reseller/Authorized Service agent for inspection and repair
Compressor runs continuously	Faulty pressure switch	Return to Reseller/Authorized Service agent for inspection and repair
	Excessive air usage	Reduce air usage, compressor may not be large enough for tools requirements – refer Compressor performance and duty cycle.
	Pump or motor components beyond service life	Return to Reseller/Authorized Service agent for inspection and repair
Air Leaks	Tube or hose fitting loose	Tighten tube with audible leak and check under pressure with soapy water solution (do not over tighten).
	Leak at weld	Receiver (tank) must be replaced
	Air leak in safety valve (after air compressor is reset)	Return to Reseller/Authorized Service agent for inspection and repair
Restricted air inlet	Dirty air filter	Clean or replace air filter
Low discharge pressure	Prolonged, excessive use of air	Decrease amount of air usage. Compressor is not large enough for air requirements
	Restriction in air filter	Clean or replace air filter
	Tank drain tap open	Close drain tap
	Broken inlet valves	Return to Reseller/Authorized Service agent for inspection and repair
	Hole in Hose	Check and replace if needed
Excessive moisture in discharge air	Excessive water in tank	Drain tank
	High Humidity	Move to area with less humidity or use an air filter/water trap
Knocking or rattling	Low oil level	Check oil level and adjust to correct level
	Loose screws or nuts	Check all screws and nuts – tighten as necessary

# WARRANTY STATEMENT

## LIMITED WARRANTY

### KEEP YOUR RECEIPT.

Proof of purchase will be required to substantiate any warranty claim.

### WHAT IS COVERED:

Powerbuilt warrants to the original retail purchaser in New Zealand that this product is free of manufacturing defect in material and workmanship and agrees, at Powerbuilt's direction, to either repair, provide replacement parts for, or replace (without charge for parts or labor) any product or component with a material defect for a period of 1 year from the date of purchase, except as limited below. Warranty service and replacement parts are warranted only for the duration of the warranty on the original product. All replaced parts or products become the property of Powerbuilt Tools.

### Warranty

Powerbuilt's Limited Warranty – 1 Year Residential and 90 Day Commercial.

1 year Residential warranty applies as follow: Parts & Labor for the engine, Frame and pump.

### Warranty Term

“Consumer Use” – residential household use by a retail consumer

“Commercial Use” – all other use – commercial, business, industrial, or rental purpose.

### How to Obtain Warranty Service

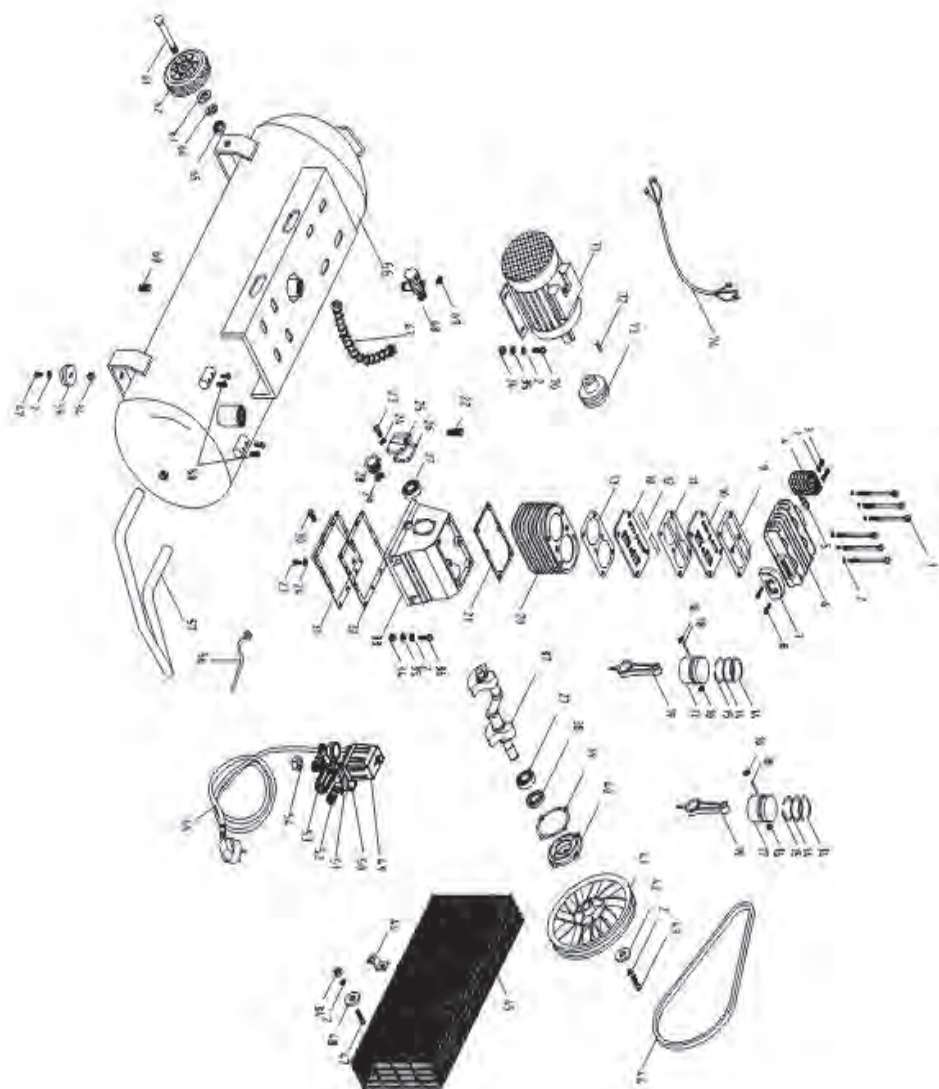
Please contact the Local Distributor who you purchased the product through Please have necessary information available – Model Number, Serial Number, Proof of Purchase. They will contact Powerbuilt Tools and assist you through the warranty process.



### **WARNING**

Repairs to this compressor must be made by a qualified Powerbuilt service agent. Powerbuilt will not be responsible for any damage or injuries caused by the repair or attempted repair by an unauthorized person or by abusing this compressor.





NO	NAME	QTY
1	In hexagon boltM8*160	6
2	Spring pad	19
3	In hexagon boltM8*16	2
4	radiator	1
5	seal packing collar	1
6	Cylinder cover	1
7	Damper	1
8	In hexagon bolt M8*25	2
9	Seal packing collar	1
10	Valve board module	2
11	Valve board pad	1
12	sheet	4
13	Valve board pad	1
14	Gas ring	4
15	Oil ring	2
16	Steel wire circlip	4
17	Piston	2
18	Piston pin	2
19	Connecting rod	2
20	Cylinder	1
21	Cylinder seal packing collar	1
22	Respirator	1
23	Outside hexagon bolt M6*16	20
24	Spring pad	20
25	Bearing seat	1
26	Seal packing collar	1
27	Bearing	2
28	Oil mirror	1
29	Seal packing collar	1
30	In hexagon bolt M6*10	1
31	motherboard	1
32	Seal packing collar	1
33	Crank case	1
34	Nut	12
35	Even filling piece	12
36	Bolt M8*45	4
37	Crank	1

NO	NAME	QTY
38	Oil seal	1
39	Seal packing collar	1
40	First bearing seat	1
41	Main motorized ship	1
42	Back plate	1
43	Bolt	1
44	V belt	1
45	Net cover	1
46	Support	1
47	Bolt ) M8*20	5
48	Even filling piece	5
49	pressure switch	1
50	regulator valve	2
51	quick couplers	1
52	pressure gauge	2
53	pressure gauge	1
54	safety valve	1
55	plug line	1
56	Discharge tube module	1
57	Handle	1
58	In hexagon bolt M8*10	4
59	Foot pad	2
60	Drain plug	1
61	Bolt	2
62	Oak rubber tire	2
63	Even filling piece	2
64	Spring pad	2
65	Nut M10	2
66	Gas tank	1
67	High pressure tube module	1
68	Cone-way valve	1
69	Square bent	1
70	Bolt M8*25	4
71	motor	1
72	Key	1
73	Belt pulley	1
74	motor line	1

## NOTES

## NOTES

## NOTES





Powerbuilt is a registered trademark of Alltrade Tools, LLC.

New Zealand Customer enquiries should be directed to: Alltrade Tools NZ (2016) Ltd

[support@powerbuilttools.co.nz](mailto:support@powerbuilttools.co.nz)

[www.powerbuilttools.co.nz](http://www.powerbuilttools.co.nz)

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