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# Instruction and Maintenance Manual

# SRT AIR



## Belt Driven Compressors

**IMPORTANT – Please make certain that persons who are to use this equipment thoroughly read and understand this Instruction Manual prior to operation.**

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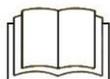
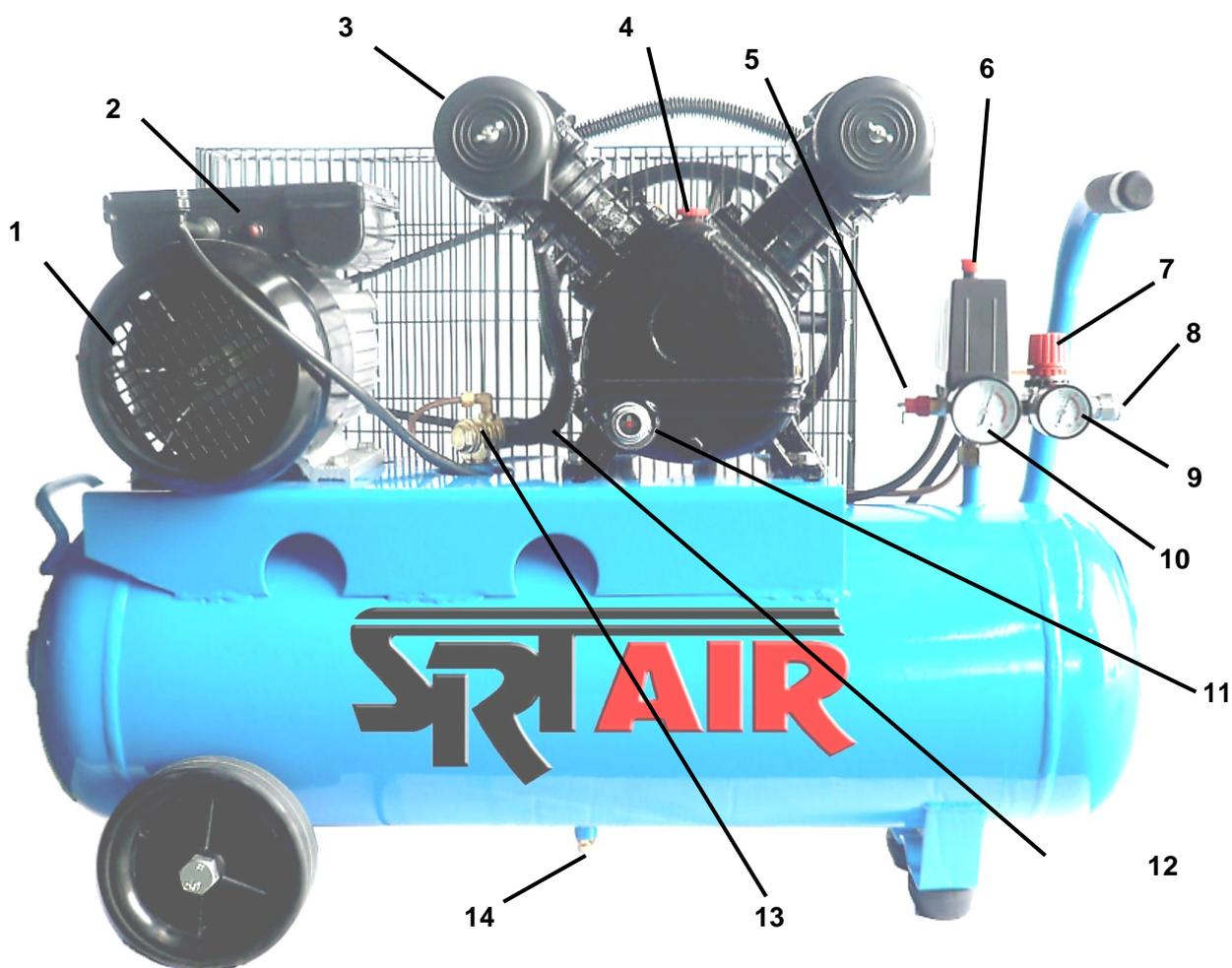
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## Chapter 1 Parts & Features

### DESCRIPTION

- |                              |                             |
|------------------------------|-----------------------------|
| (1) Air inlet motor cooling  | (8) Outlet connection       |
| (2) Motor reset switch       | (9) Line pressure gauge     |
| (3) Air filter               | (10) Tank pressure gauge    |
| (4) Oil filler cap           | (11) Oil sight glass        |
| (5) Safety Valve             | (12) Discharge tube         |
| (6) Pressure Switch On / Off | (13) Non Return Valve (NRV) |
| (7) Pressure Regulator       | (14) Tank drain Valve       |



**IMPORTANT** – Improper operation or maintenance of this air compressor could result in serious injury and/or property damage, thoroughly read and understand this Instruction Manual prior to operating the air compressor.

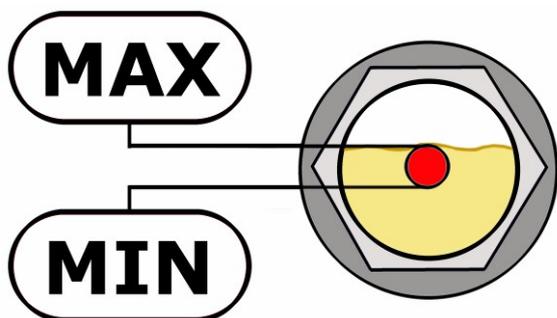


## Check oil level before starting Compressor

### Sight glass - Daily

The compressor oil level can be viewed through the sight glass; the compressor must be on a level surface.

The top of the red dot indicates the full mark the bottom of the red dot indicates the low mark. Always ensure that the oil level is correct before operating the compressor.



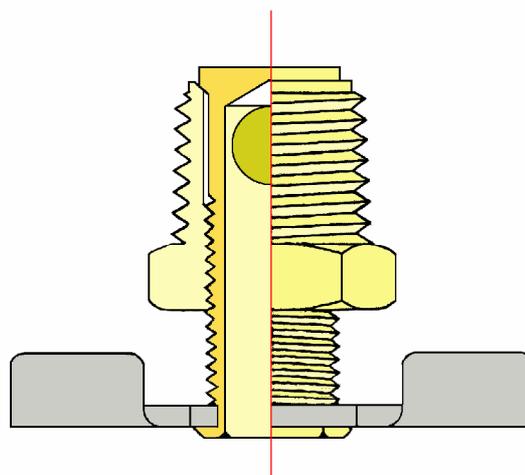
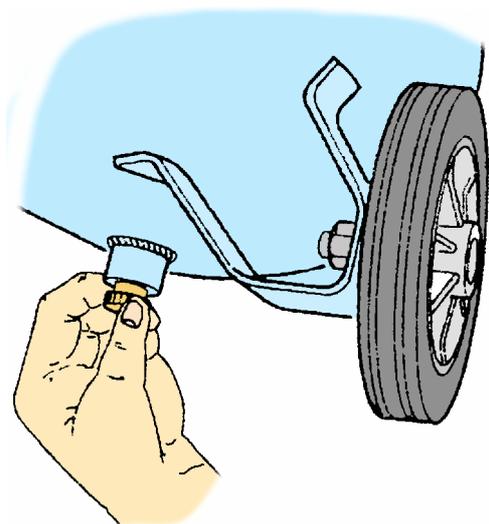
If the oil is low add Scorpion Compressor oil or equivalent Aircol PD68.



## Shut tank drain if pressure won't build up

### Drain air tank - Daily

Loosen the drain nut and allow any condensed water to escape



**WARNING** Never turn the compressor on or off at the wall

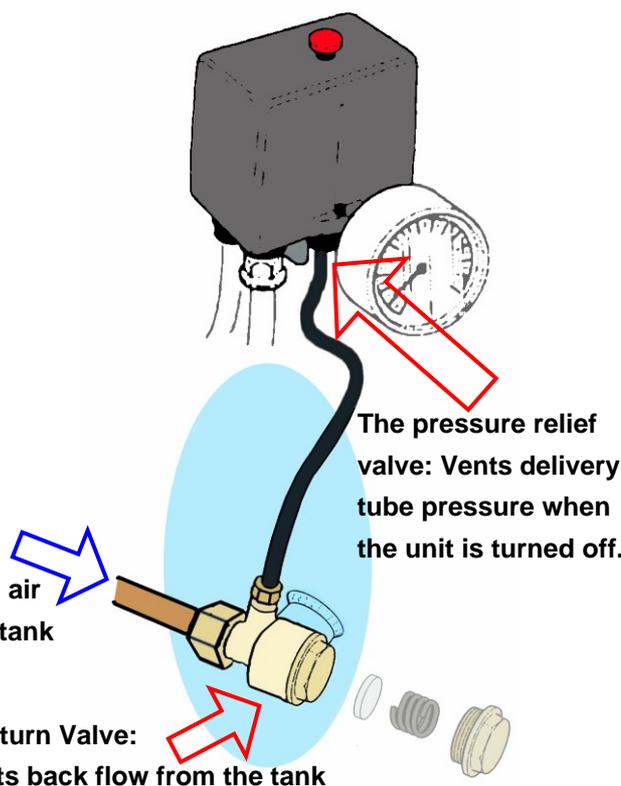
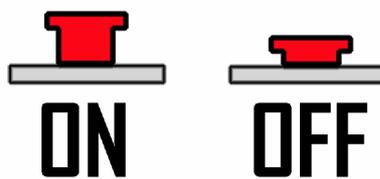
**Pressure switch – On / Off**

The pressure switch automatically controls the power to the motor and operates the pressure relief valve. It also allows for manual operation via the Push/Pull - On/Off switch on top of the pressure switch.

The pressure switch is factory set to turn the compressor on when the tank pressure drops below 85 psi and turn itself off again when the tank is full.

You will notice that every time the unit reaches maximum pressure and turns itself off (or if the unit is manually turned off); there is a short release of high pressure air.

This is the pressure relief valve venting the air contained within the delivery tube (the pipe which connects the compressor pump to the non return valve). Failure to vent the pressurized air between the pump and the tank will cause excessive current draw on startup which may lead to motor failure. For this reason always turn the compressor On and Off via the pressure switch



**WARNING** The pressure switch contains high voltage

**Pressure switch**



Any repairs to the pressure switch must be carried out by qualified personnel.





## Always operate the compressor on a flat surface

### Maximum Tilt

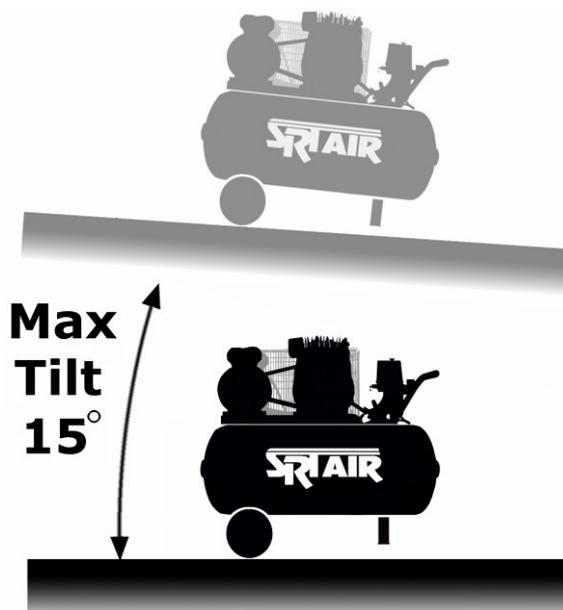
The maximum safe operating angle in any direction is 15° degrees.

Do not operate the compressor on inclines in excess of 15° degrees. Serious damage to pump components may result from insufficient lubrication.

Never use the air compressor on a rooftop or elevated position that could allow the unit to fall or be tipped over.

Use additional air hose for elevated jobs.

Always turn the compressor off before moving.



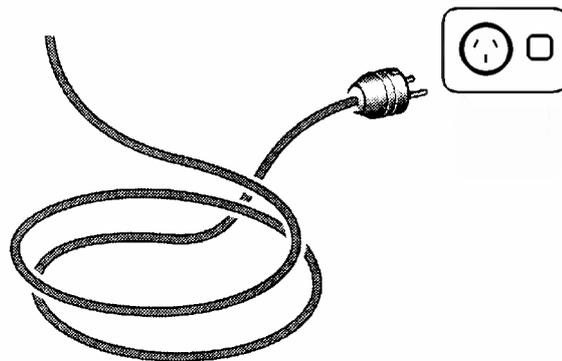
## Adequate power supply is essential

### Power supply

It is essential that the air compressor has an adequate power supply.

The air compressor should be operated on a dedicated 10 amp 240 volt circuit or larger.

Always utilize more air hose before choosing to use an extension lead, as low voltage could cause damage to the motor. (Low voltage damage is not a warrantable failure)



**Your SRT belt driven compressor is intended for the following applications:**

- ▲ Leisure, sports, inflating toys, balloons, balls, auto tyres
- ▲ Household, cleaning, pruning, drying.
- ▲ Domestic air tools such as nail guns, staplers, spray guns, impact tools, etc.



## **Incorrect operation is dangerous**

- Should you intend to use an air tool for a long durations ensure that the out put of the compressor (know as the FAD or Free Air Delivery) exceeds the air consumption of the tool being used.
- Remember that your compressor has been designed with a 50% duty cycle in mind; continuous operation may cause it to overheat and result in serious mechanical damage to pump components. You should consider a larger or screw type compressor for long term or continuous duty applications.
- Use extension cords sparingly - and only use ones with an adequate current rating. **Using an ordinary (light duty) extension lead on a compressor can cause voltage drop, overheating the motor and leading to appliance damage or even fire.**
- As your SRT Compressor has an air cooled motor as well as an air cooled pump which draws in atmospheric air it is important not to run the compressor in confined areas with poor ventilation or on loose surfaces such as dirt, dust or sand, otherwise abrasive particles will be sucked into the air stream and cause the premature wear of components.
- Your air compressor is not water proof; do not attempt to use or store it in the rain, snow or any other environment with extreme conditions. It has been designed for use and storage indoors.
- Used and maintained correctly, your SRT Compressor will provide many years of reliable service.
- Your Compressor has been manufactured to a high standard in order to ensure a long service life. Ultimately the realization of the intended service life requires the operator to observe all instructions and servicing requirements as described in this manual.
- Always wear approved safety glasses with side shields when using compressed air. Never point any nozzle or sprayer toward any part of the body or at other people or animals.
- Do not operate the air compressor if any guards or covers are missing, damaged or not installed correctly. Ensure all maintenance is carried out by qualified personal.
- Never allow children or untrained personal to “play” with compressed air.

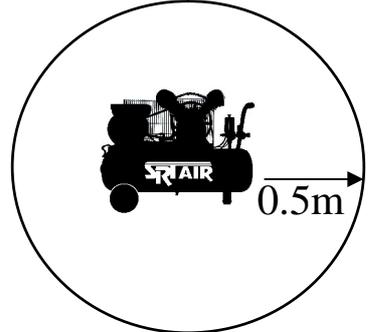
## Chapter 2 Operating the Air Compressor



### 2.1 IMPORTANT SAFETY INSTRUCTIONS

**IMPROPER OPERATION OR MAINTENANCE OF THIS PRODUCT COULD RESULT IN SERIOUS INJURY AND OR PROPERTY DAMAGE.**

**READ AND UNDERSTAND ALL WARNINGS AND OPERATING INSTRUCTIONS BEFORE USING.**

HAZARD	WHAT CAN HAPPEN	HOW TO PREVENT IT
	<ul style="list-style-type: none"> <li>Water directed at electrical connections or switches, or objects connected to an electrical circuit, could result in a fatal electrical shock.</li> <li>Moisture or a liquid of any kind may conduct electricity and could result in a fatal electrical shock. <i>The air compressor is not waterproof.</i></li> </ul>	<ul style="list-style-type: none"> <li>Never attempt to clean the air compressor while it is running. Direct any water or spray away from electric outlets and switches.</li> <li>Keep your air compressor out of the elements and well sheltered from rain, snow, dew, water or mist of any kind.</li> <li>Do not use the compressor with the supply cord damaged or with poor quality connections.</li> </ul>
 	<ul style="list-style-type: none"> <li>Operating the air compressor in an explosive environment could result in a fire.</li> <li>Materials placed against or near the air compressor can interfere with its proper ventilation causing overheating and possible ignition of the materials.</li> <li>Improperly stored paint thinners could lead to accidental ignition. thinners improperly secured could get into the hands of children or other unqualified persons.</li> <li>Good air flow is important as both the motor and compressor unit are air cooled. Restrictions to or insufficient air flow will cause overheating.</li> </ul>	<ul style="list-style-type: none"> <li>Never spray paint in a confined area with the air compressor.</li> <li>Operate the air compressor in well ventilated areas free from obstructions. Equip areas with fire extinguishers suitable for electrical fires. Do not leave nylon material shirts or jumpers on the compressor.</li> <li>Store paint thinners and other flammable liquids in approved containers, in a secure location away from the work area.</li> <li>Minimum clearance 0.5m</li> <li>Maximum ambient operating temperature 45°C</li> </ul>
	<ul style="list-style-type: none"> <li>This air compressor does not provide breathable air, the air may be contaminated with mineral based oils and other contaminants which poses the risk of serious lung infection and or injury.</li> <li>Spraying any material without the use of a face mask will result in the ingestion of foreign substances.</li> </ul>	<ul style="list-style-type: none"> <li>Never try to provide breathing air or refill auxiliary breathing apparatus using this compressor.</li> <li>Never spray substances in a closed location occupied by humans or animals always use a face mask when spraying substances.</li> </ul>
	<ul style="list-style-type: none"> <li>Contact with hot surfaces, such as the cylinder head, cooling fins or discharge pipe, could result in serious burns.</li> <li>These parts will remain hot for some time after the compressor is shut down.</li> </ul>	<ul style="list-style-type: none"> <li>During operation, touch only the control surfaces of the air compressor. Keep children and animals far away from the air compressor at all times. They may not be able to recognize the hazards of this product.</li> <li>Allow the air compressor to cool before storage.</li> </ul>

## 2.2 Preparation before Starting

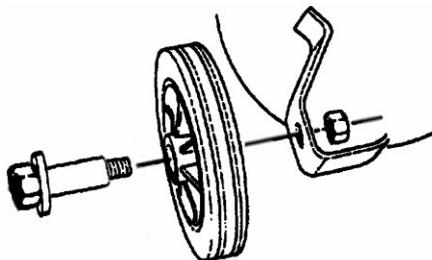


### Wear gloves and lift with assistance

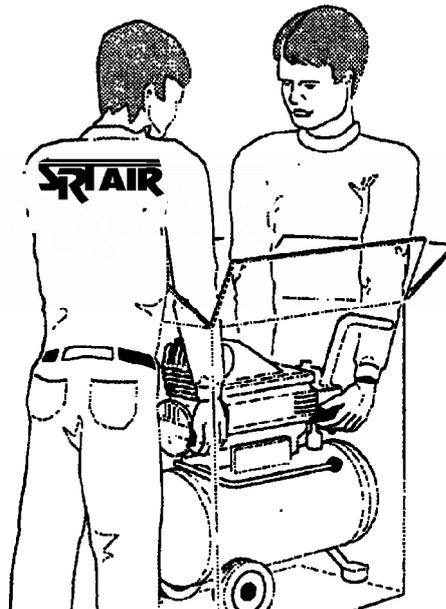
#### Unpacking

Wear protective gloves and cut the outer strapping with side cutters. Remove the staples with long nose pliers and open the top flaps. With assistance, carefully lift the compressor and place it on the work surface.

Fit the wheels, the air filter and add oil to the pump as necessary.



We recommend that you store the packaging for the duration of the warranty period. If necessary, it will be easier to return the compressor to the service centre.



### When starting for the first time

#### Run in procedure

When starting for the first time leave the air compressor run for 10 minutes without load, leave the air cock completely open. After 10 minutes check that the drain cock is closed and shut the main air cock. As tank pressure increases check that the compressor stops automatically once maximum pressure is reached.

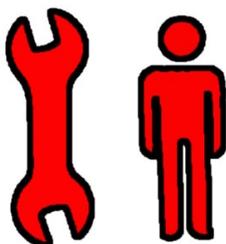
\*Note: All SRT compressors are delivered only after a successful testing period at the factory.

For the long life of your compressor it is recommended that you drain and replace the pump lubricant **after 10 hours of use**, Drain the oil while it is still warm this will help remove any abrasive particles loosened from the initial run in period. Replace pump oil with Scorpion Compressor oil AC-68.

## Chapter 3 Maintenance of the air compressor



### Wear gloves and lift with assistance



WHEN DOING MAINTENANCE, YOU MAY BE EXPOSED TO ELECTRICITY, HOT SURFACES, HIGH PRESSURE AIR, MOVING PARTS, OR FIRE WHICH MAY RESULT IN INJURY OR DEATH. BEFORE PERFORMING ANY MAINTENANCE OR REPAIR, DISCONNECT ANY POWER SOURCE; LET THE COMPRESSOR AND MOTOR COOL DOWN COMPLETELY. DRAIN ALL AIR PRESSURE FROM THE TANK. CONTACT A SPECIALIZED SERVICE TECHNICIAN FOR ALL ELECTRICAL REPAIRS.

### 3.1 Regular maintenance schedule

Keep your air compressor in good condition, regular inspection and maintenance is very important.

Item \ Service period regular	Every day	After 10 Hrs	Every month	Every 6 months	Every year
Check the oil level	■				
Drain tank condensation	■				
Clean air intake filter	(Service more frequently when used in dusty conditions)		■		■ Replace filter element
Change pump oil		■ 1st time		■ 2nd and thereafter	■
General cleaning of the compressor, check for leaks				■	

“■” The chart above indicates which checks to make and when to make them.

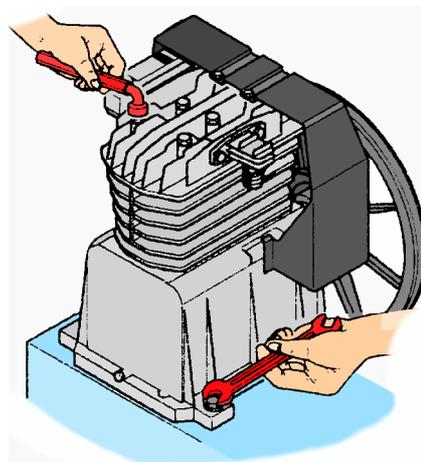


### Failure to maintain voids warranty

Check for any loose fasteners after 10 hours of operation

- Check that all nuts and bolts are properly tight
- Drain and replace the pump lubricant  
Replace pump oil with Scorpion compressor oil.  
 (this will remove abrasive particles, from initial run in period)

## After 10Hrs of use

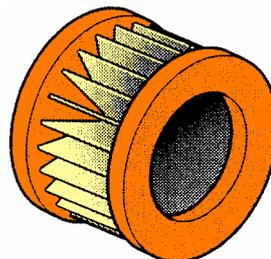
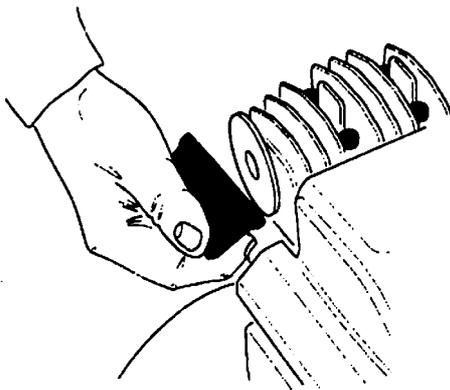




## Do not operate without an air filter

### Air filter maintenance

Remove the outer cover to access the filter element



Paper air filter elements, can be cleaned by gently blowing with compressed air (20psi) from the inside out.

### Air filter maintenance

Air filter maintenance will be increased when the compressor is used in dusty conditions.

Replace the filter every 12 months.

Do not operate the compressor without an air filter.

Foam air filter elements should be washed in warm soapy water, allow to dry, then re-oiled before use.



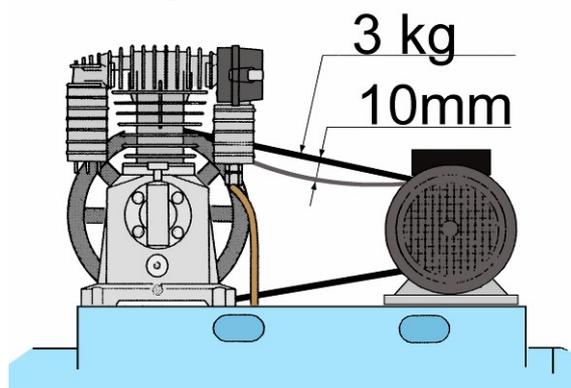
## Disconnect from electricity supply Before conducting maintenance

### Check belt tension

Correct belt tension is important if the belt is too tight it will cause the motor to overheat and increase electricity consumption. If the belt is too loose it may slip easily, whip and break.

Hang a weight of about 3kg at the mid point of the belt. Deflection should be about 10mm. If necessary retention the belt taking care not to disturbed the pulley – flywheel alignment.

Correct pulley alignment is extremely important!



# Trouble Shooting



Fault	Cause	Remedy
Tank pressure continually drops.	Air leak, check all connections.	Locate and rectify leak.
Tank pressure won't build up.	Drain valve is open.	 Close tank drain valve.
The compressor won't switch off. The safety valve blows off.	Pressure switch fails to stop motor Faulty pressure switch.	Contact a specialized service technician. 
Tank pressure won't build up and the pump is getting hotter than normal, inlet suction is poor.	The compressor head gasket or valve plate is faulty.	Contact a specialized service technician. 
There is a leak from the base of the pressure switch when the compressor is running.	Failure of the pressure relief valve. (in base of pressure switch)	Contact a specialized service technician. 
There is a leak from the base of the pressure switch when the compressor is stopped.	The Non Return Valve (from the tank) is leaking.	Disassemble and clean if necessary replace valve insert.
The compressor is noisy with metallic clangs.	Bearing or loose part problem.	Stop the compressor and contact a specialized service technician. 
The compressor sounds like it is trying to start (motor makes a humming noise).	Air pressure trapped on piston is resisting the starting effort.	Turn unit off and on again using the pressure switch. This will vent air from the delivery tube. 
The compressor sounds like it is trying to start (motor makes a humming noise).	The capacitor is faulty.	Stop the compressor and contact a specialized service technician. 
Air leaks from the safety valve at pressures less than 8 bar.	The safety valve is faulty.	Replace the Safety valve. 

To obtain local service agent locations or technical advice Phone (07) 3723 1500

or view on website [www.austechindustries.com.au](http://www.austechindustries.com.au)



## Limited Warranty Policy

This Limited Warranty applies only to new products\* distributed by Austech Industries. It is a condition of this Limited Warranty Policy that all servicing requirements are completed as listed in the owner's manual, (said servicing is at the owner's expense). We recommend that all servicing is completed by an authorised service agent and that records of said servicing are retained by the purchaser as proof in the event of a warranty claim. The limited warranty period commences from the date of purchase.

Austech Industries agrees, subject to the terms and conditions specified below, to repair or replace at Austech Industries' cost, the product purchased by you when the product does not perform in accordance with its specifications during the limited warranty period, due to any fault in manufacturing, materials and/or workmanship.

### ***The purchaser's attention is drawn to the following***

- ❖ To the extent permitted by law and subject to the Limited Warranty, and as part of the terms of the sale of the equipment or part thereof: Austech Industries shall not be liable for any form of loss, damage, cost, injury or harm of any kind (whether direct, indirect, special or consequential) howsoever arising from the use or supply of the equipment to the purchaser.

### ***The Warranty Period***

- SRT- Direct Drive Compressors - 12 months
- SRT- Belt Drive Compressors - 12 months

### ***Exclusions to Limited Warranty Policy***

The Limited Warranty will not apply where the equipment or any part thereof:

- 1.1 Fails due to an accident (including liquid spillage), abuse, misuse, neglect or normal wear and tear.
- 1.2 Has been used in a manner other than for which it was originally designed.
- 1.3 Has been tampered with or is otherwise than as supplied by Austech Industries.
- 1.4 Where any damage, malfunction or other failure of the equipment or any part thereof resulted directly or indirectly from unauthorized persons, adjusting or failing to adjust any part requiring normal maintenance and service. Examples include adjustment of tappets, air filter maintenance, lubrication and tightening of screws nuts and bolts.
- 1.5 Malfunctions due to the use of defective or incompatible accessories.
- 1.6 Is damaged by lightning or thunderstorm activity.
- 1.7 Has been transported to a country where no authorized Service Agents exist.

### ***Claiming warranty***

The Warranty may be claimed on in the following manner:

- 2.1 In order to make a claim under this warranty, the purchaser must deliver the equipment or any part thereof to a repair agent and pay all costs of transportation.
- 2.2 The purchaser must deliver to the repair agent written reasons why the purchaser considers that the purchaser has a claim under the warranty and must provide all necessary details, including:
  - *The place, date and from whom the unit or part was purchased.*
  - *The unit or part involved, Model and Serial Number.*
  - *The defect, malfunction or failure in respect of which the claim is being made.*
- 2.3 If the warranty claim is valid, the repair agent will carry out repairs at no charge to the purchaser. These repairs are limited to the warranty fault identified and as such will not include any other faults due to misuse, abuse, failure to maintain, fair wear and tear or the replacement of serviceable items such as oil, spark plugs, air filters, fuel etc..

\* Scorpion is a brand name of product distributed by Austech Industries

**Note #** Units which fail to perform in accordance with specifications due to **non-warrantable** causes will be subject to freight, repair and or quote charges.