

BLACK RIDGE

POWERED BY AIR

BELT DRIVE AIR COMPRESSOR *with Briggs & Stratton Engine*

*Trade petrol compressor for
heavy duty DIY tasks around
the home and workshop*

**MODEL NO.
BRC270**



*For service, spare parts or product information,
please contact Smart Marketing Group Pty. Ltd.*

AUST. 1300 660 457 N.Z. 0800 474 876



Recyclable
Paper

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SUGGESTED APPLICATIONS

You may use most air tools with this compressor. Some examples of tools are:

INFLATION

Car and bike tires
Sports toys
Pool toys
Air mattress

CLEANING

Engine cleaning gun
Sandblaster kit
Air blow gun
Abrasion kit
Touch up spray gun
High pressure spray gun

FASTENING

Framing gun
C-bradder
T-nailer

PAINTING

Gravity feed spray gun
Low pressure spray gun
Touch up spray gun
High pressure spray gun

TOOLS

Air hammer
Air drill
Impact wrench
Sander
Die grinder

Please take note of serial number and write here for ease of reference:

Serial Number: _____

Date of Purchase: _____

Place of Purchase: _____

Receipt Number: _____

INTRODUCTION

Dear Customer,

Thank you for purchasing this compressor which has passed through our extensive quality assurance processes. Every care has been taken to ensure that it reaches you in perfect condition. However, in the unlikely event that you should experience a problem, or if you require any assistance please do not hesitate to contact us;



If you have a problem, call customer service do not return this compressor to the place of purchase.

CUSTOMER SERVICE

Australia: 1300 660 457

New Zealand: 0800 474 876

Operating times: Monday – Friday 8.00am - 5.00pm

Australian Eastern Standard Time (AEST)

EXPRESS WARRANTY STATEMENT COMPRESSOR GROUP

You are not required to do anything to register your compressor purchase. Please attach the purchase receipt to this manual and ensure both are kept safe. We hope you enjoy your new compressor, and if you have any problems call customer service on the above phone numbers. Do not return to place of purchase.

Smart Marketing Group Pty Ltd (SMG) warrants that this compressor will be free from manufacturing faults or defects for 12 months from the date of purchase, providing original purchase receipt is kept and shown when needed and is subject to the terms and conditions below.

If a warranty fault appears within the warranty period, SMG reserves the right to replace or repair the product. In the event that SMG chooses to replace the product, this original warranty will expire at the original date. If the product includes various accessories or components, only the defective accessory or component will be replaced or repaired.

SMG reserves the right to replace defective parts of the product with parts and components of similar quality, grade and composition where an identical part or component is not available.

Products presented for repair may be replaced by refurbished products of the same type rather than being repaired.

Refurbished parts may be used to repair products under warranty.

What is covered

- Manufacturing fault or defect.

How to claim under this warranty

- Call customer service.
- Ensure you have the following: Original purchase receipt, Model of compressor, Serial number of compressor.
- Discuss the issue.
- Customer service will advise which authorised service agent to take the compressor to provided the issue is a warranty one.
- Take compressor to authorised service agent for repair.

What is not covered

- Use of compressor for hire.
- Damage caused by incorrect fuel or incorrectly mixed 2 stroke fuel.
- Damage or deterioration due to transport.
- Damage caused by negligence, misuse, abuse or accident or incorrect voltage and wattage.
- Any corrosion or rusting.
- Damage caused by incorrect set up and start up.
- Replacement parts due to general wear and tear.
- Compressors with serial number defacement, modification or removal.
- Compressors which have been serviced by other than an authorised SMG service agent.
- Compressors with no original purchase receipt.
- Compressors which have been on sold, not original purchaser.
- Damage due non-servicing of compressor as is required by this manual.
- Blockages / damage caused by dust, dirt, spiders webs or insects.
- Damage caused by the incorrect fitting of accessories.
- Damage caused by overloading, overworking the compressor.
- Damage to attached equipment or third party accessories.
- Damage caused by attached equipment or third party accessories.
- Loan unit whilst warranty servicing is carried out.
- Loss of income due to warranty servicing.

CONTACT DETAILS

Smart Marketing Group Pty Ltd
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Victoria 3149, Australia.
Tel (+613) 9543 7266
Fax (+613) 9543 9839
service.group@sitro.com.au

COMPLETE WARRANTY STATEMENT – COMPRESSOR GROUP

As soon as you have purchased the compressor, we recommend that you check to make sure it is intact and that you read the operating instructions carefully before using it. The purchase receipt for this product is to be retained and must be presented if making a claim under the terms of the Smart Marketing Group (SMG) warranty. Bank account statements are not acceptable for proof of purchase.

This warranty does not cover compressors intended for hire or commercial use. The warranty will under no circumstances extend to reimbursement or payment of damages, whether direct, indirect or consequential. The warranty is void if there is evidence the compressor has been modified or tampered with in any way or used with unauthorised accessories without our consent.

SMG declines any responsibility or liability whatsoever arising from misuse or abuse, negligent handling of the compressors or if the product has not been installed or failure to comply with the relevant safety, operating, setting and maintenance instructions (see further in this manual).

The warranty does not extend to installation or disconnection costs.

Any item sent freight forward/collect for repair will be refused. Warranty repairs are free of charge, provided the appliance is delivered to our service department or authorised service agent. The compressor will need to be returned, adequately protected in a box. SMG will not be responsible for any in-transit loss or damage. Assistance under the warranty will only be made available if the request is made to our customer service team on the contact numbers listed below and proof of purchase is provided.

This is a repair only warranty you will need to take the compressor to the authorised service agent after contacting our customer service centre for a return authority.

If the product includes various accessories or components, only the defective accessory or component will be replaced or repaired.

SMG reserves the right to replace defective parts of the product with parts and components of similar quality, grade and composition where an identical part or component is not available.

Products presented for repair may be replaced by refurbished products of the same type rather than being repaired.

Refurbished parts may be used to repair product under warranty.

Damage caused by third party accessories is not covered under this warranty.

Damage caused to attached equipment or third party accessories will not be covered under this warranty.

Rust and corrosion are not covered under this warranty.

Cost of a loan compressor is not covered under this warranty. Loss of income is not covered under this warranty.

Blockages caused by spider webs, insects, dirt, accumulated dust, incorrect fuel or incorrectly mixed 2-stroke fuel are not covered by warranty. SMG reserves the right to replace or repair the appliance within the warranty period. Parts found to be defective due to a manufacturing default will be replaced free of charge.

In the event of SMG choosing to replace the appliance, the warranty will expire at the original date of purchase. If no warranty fault is found the owner will be advised and the product will be returned and any costs associated with the service will be charged to the owner.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits of this warranty are in addition to any rights and remedies imposed by Australian State and Federal legislation that cannot be excluded.

In New Zealand, this SMG warranty is in addition to the conditions and guarantees which are mandatory as implied by the New Zealand Consumer Guarantee Act 1993.

For service, spare parts or product information please contact customer service:

Australia: 1300 660 457

New Zealand: 0800 474 876

service.group@sitro.com.au

LUBRICATION OF COMPRESSOR

Your pump comes factory filled with oil and already has the oil breather fitted. Before use check the oil level to ensure the level is to the top of the red dot on the sight glass; refer to pages 9 and 12 for complete details and images. Failure to do this may result in damage to the air compressor and / or injury to the user.

LUBRICATION OF ENGINE

Your engine comes with NO oil in the sump. You will need to add engine oil, refer to pages 9 and 13 for complete details and images. Failure to do this may result in damage to the engine, air compressor and / or injury to the user.

ASSEMBLY

This compressor **MUST** be fully assembled by you prior to use. Failure to do so will result in the warranty being VOID. Failure to fully assemble this compressor may also result in personal injury.

SAFETY

Before attempting to operate this air compressor the following basic safety precautions should be taken to reduce the risk of fire, electric shock and personal injury. It is important to read the instruction manual and to understand applications, limitations and potential hazards associated with the air compressor. This air compressor is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety.

BEWARE OF CHILDREN AND PETS

Children and pets should be kept out of the work area. Children should not be allowed to touch or operate the air compressor, tools or extension cords. This air compressor is not designed for use by young children or infirm persons without supervision. The air compressor and tools should be kept out of reach of children, preferably stored or locked in a secure cabinet or room when not in use.

FUEL

Fuel used in this air compressor is poisonous. Always wear approved breathing protection when decanting fuel. If you get any fuel on your skin or clothes wash the affected area immediately with soap and water and change your clothes. If you get fuel in your eyes wash immediately with clean water and seek medical attention. If any fuel is swallowed **DO NOT** induce vomiting, seek immediate medical attention

WORK AREA

Work areas and benches should be kept tidy. Cluttered benches and work areas can cause accidents. Floors should be kept clean and free from rubbish. Special care should be taken when the floor is slippery due to sawdust or wax. Always leave sufficient distance, at least 5 metres between the air compressor and the work area, especially when using tools designed for sanding or spraying liquids. As this compressor uses a petrol engine, only run the air compressor outdoors or in a well ventilated area. If needed use a longer air hose to reach your work area.

WORK/OPERATING ENVIRONMENT

Do not expose your air compressor to rain or use in damp or wet conditions. Keep the work area well lit. Always ensure your compressor is level and stable. Using your compressor on uneven or unstable ground may cause a lack of lubrication and the pump to seize, this damage will not be covered under warranty.

ALWAYS use your petrol air compressor outdoors or in an open well ventilated area. Do not expose your air compressor to rain. Do not expose your air compressor to direct sunlight. Keep the work area well lit.

GUARD AGAINST ELECTRIC SHOCK

Avoid body contact with earthed or grounded surfaces (e.g. pipes and refrigerators).

DO NOT FORCE AIR COMPRESSORS

The air compressor will do a better, safer job and give you much better service if it's used at the duty cycle for which it was designed. The duty cycle will only take effect after the initial (1st) tank fill for the day. This air compressors duty cycle is 100%. Duty cycle is the proportion of time during which the air compressor is operating compared with not operating. As this air compressor is a petrol powered compressor the pump is always pumping and the Engine always running, however it is recommended that the air tool is not used while the Engine is at high RPM filling the air tank, this is to ensure that you have a consistent air flow to your air tool.

USE THE RIGHT TOOL

Select the right tool for the job. Do not use a tool for a job for which it was not designed. Do not force a small air compressor to do the job of a heavy-duty air compressor. Do not use the air compressor for purposes not intended.

HOT COMPONENTS

Beware many of the components - especially the Engine exhaust and pump head - will get hot during use. Never touch any of the metal pipes, pump or Engine as these may burn.

MAINTAIN YOUR AIR COMPRESSOR WITH CARE

When not using your air compressor, ensure the fuel cock is 'OFF'. Never leave the fuel cock 'ON' as this can damage the carburetor. Follow the instructions for lubricating and changing accessories. Keep handles clean, dry and free from oil and grease. Ensure that ventilation slots are kept clean and free from dust at all times. Blocked ventilation slots or air filter can cause overheating and damage to the Engine and this will not be covered under warranty.

STOP AIR COMPRESSOR

Ensure that the air compressor has stopped and is turned off when not in use, before servicing, lubricating, making adjustments or when changing any accessories.

REMOVE ADJUSTING KEYS AND WRENCHES

Form the habit of always checking to see that any adjusting keys or wrenches have been removed from the air compressor or attached air tools before operating.

FIRE PRECAUTIONS

Always contact your fire authority before using the air compressor on fire restricted days. It is not recommended to use your air compressor when a total fire ban is in force. Never refuel your air compressor while it is running. As a precaution it is recommended that an expert is consulted on obtaining and using a suitable fire extinguisher.

CLEANING YOUR AIR COMPRESSOR

Always ensure your air compressor has stopped and is turned off before cleaning. Always ensure that your air compressor has cooled, about one (1) hour, before cleaning and storing. When cleaning your air compressor use only a damp soft cloth. NEVER use liquid or solvents of any type.

CHECK DAMAGED PARTS

Before using the air compressor it should be carefully checked to determine that it will operate properly and perform its intended function. Check for the correct alignment of moving parts ensuring that they do not bind. Check for broken or missing parts and have them replaced or repaired at an authorised service facility. Check any other condition that may affect the operation of the air compressor. A guard or any other part of the air compressor that is damaged should be properly repaired or replaced by an authorised service facility unless otherwise indicated in this instruction manual. Any switch that does not operate correctly must be replaced by an authorised service facility.

DO NOT use the air compressor if the 'ON / OFF' Engine switch does not turn the air compressor 'ON' and 'OFF'.

PERSONAL SAFETY

Clothing

Do not wear loose clothing, jewellery or anything that could get caught in moving machinery.

Hair

Long hair should be tied back or contained in a protective covering.

Eye Protection

The use of safety goggles is highly recommended (normal glasses are not sufficient for eye protection) when using an air compressor. Prescription glasses do not have safety lenses.

Footwear

Where there is the risk of heavy objects or if there is a risk of slipping on wet or slippery floors, suitable non-slip safety footwear should be worn. Protect your feet from dropping accidents.

Ear Protection

The use of ear protection is highly recommended when using air compressors. The continual noise may damage your ears.

Respiratory Protection

Always wear approved breathing protection when decanting fuel. ALWAYS use this air compressor in well ventilated area. NEVER use indoors. WARNING! DO NOT breathe in exhaust fumes. Exhaust fumes are poisonous and may cause drowsiness, unconsciousness and even death. When operating any machinery that creates dust or when spray painting, an approved dust / filter mask must be worn. When machining concrete, man-made fibres, especially MDF (Medium Density Fibre board), the resin used in these materials can be hazardous to your health. Use an approved face mask with replaceable filter.

Do Not Over Reach

Do not over reach. Keep a proper footing and maintain your balance at all times. Avoid using abnormal stances and awkward body positions.

Stay Alert

Watch what you are doing, use common sense, and never operate an air compressor when you are tired, drinking alcohol, taking drugs or if taking medication that causes drowsiness.



WARNING

Only use compressor with oil breather fitted.

Only use compressor when fully assembled

Do not attempt to modify the air compressor in any way; this will VOID your warranty.

The use of any attachment or accessory other than those recommended in this instruction manual could result in damage to the air compressor and could cause injuries to the operator.

This petrol air compressor complies with Australian / New Zealand and International standards and safety requirements. Repairs should only be carried out by qualified persons using original spare parts. Failure to do so may result in considerable danger to the operator.

SPECIFIC SAFETY INSTRUCTIONS

Warning! Do not use the air compressor in areas where there is a risk of explosion or fire from combustible materials. The sparks generated from certain tools attached to air compressor can ignite combustible materials as well as flammable liquids, paint, varnish, petrol, flammable gases and dust of an explosive nature. As a precaution it is recommended that you consult an expert on a suitable fire extinguisher and its use.

Warning! Do not use the air compressor indoors or in confined spaces where exhaust gases, smoke or fumes could reach dangerous concentrations.

Always use the air compressor in an open well ventilated area.

- **Fully assemble compressor before use.**
- **Do not attempt to modify the air compressor, guards or the supplied accessories in any way.**
- **Air compressors are designed for intermittent operation. This air compressors duty cycle is 100%. Duty cycle is the proportion of time during which the air compressor is operating compared with not operating. As this air compressor is a petrol powered compressor the pump is always pumping and the engine is always running, however it is recommended that the air tool is not used while the engine is at high RPM filling the air tank, this is to ensure that you have a consistent air flow to your air tool.**
- **Stop using the attached tool as soon as the air compressor engine starts running at high speed.**
- **Always check the oil level, engine and pump, before use. The oil level should be above the red dot on the sight glass.**
- **Always ensure your compressor is level and stable. Using your compressor on uneven or unstable ground may cause a lack of lubrication and the engine or pump to seize, this damage will not be covered under warranty.**
- **Never run this compressor without the wheels and/ or rubber stoppers/caster wheels being correctly fitted.**
- Avoid touching the pump area as it can become very hot and may burn.
- Ensure that the air compressor has stopped and turned off when not in use, before servicing, lubricating, making changes and when changing attachments such as air hoses / tools.
- Always use the correct type of tool for the operation to be carried out.
- Never use the air compressor if any part of the unit is damaged. Always have the air compressor serviced by an authorised service agent.
- Always wear safety eye, ear and respiratory protection when operating the air compressor.
- Allow the tank to completely fill before using the air compressor.
- Never pull the re-coil starter once the air compressor engine has started. Any damage caused will not be covered by warranty.
- Do not touch the exhaust. This can become very hot during operation and can cause serious burns.
- Do not allow air pressure hose to touch the muffler. Damage will occur and will not be covered by warranty.
- Always check the air compressor for damaged parts or fuel leaks, ensure these are fixed before using it.
- Never re-fuel while smoking or in the vicinity of an open flame.
- Always wear safety eye wear, ear and breathing protection when operating or refuelling the air compressor
- To avoid a fire if you spill fuel while refuelling, clean up before starting the air compressor.
- Never use coolant in the air compressor as damage may occur.
- Never transport the air compressor with fuel in the tank. ALWAYS empty the fuel tank.
- If the air compressor makes an unfamiliar sound or vibrates excessively, switch the air compressor 'OFF' immediately. Investigate the possible cause or consult your authorised service facility.
- Always move the air compressor using the handle and wheels.
- Always use the air compressor on stable ground.
- This air compressor is designed to compress normal air. Never use to compress any other types of gases.
- Never direct the jet of air or other liquids / gases towards your body, other persons or animals.
- Never direct the jet of air or other liquids / gases towards this air compressor.
- This air compressor is not suitable for pharmaceutical, food or sanitary purposes.
- This air compressor is not to be used for filling scuba or oxygen air bottles or tanks.
- Always follow the instructions relating to the tools attached to this air compressor.
- If contaminated (dirty) or old (stale) fuel is used any damage caused will not be covered under warranty.

IMPORTANT

FUEL - ONLY USE UNLEADED PETROL (ULP)

Fuel tank capacity - 3.0 Litres (3.0L)

Use of incorrect fuel and/or oil may damage the air compressor and will not be covered under warranty. Do not use E10 or any type of ethanol fuel as this will damage the air compressor and will not be covered under warranty. Do not use high octane fuels (greater than 91%) as this will damage the air compressor and will not be covered under warranty.

- Ensure you use clean fresh unleaded petrol (ULP)
- Use a clean approved container to store your unleaded (ULP) in before decanting into the fuel tank.

OIL

To operate this air compressor requires oil in the sump, not supplied. If the air compressor does not have the correct level of oil in the sump, it will not run, see below.

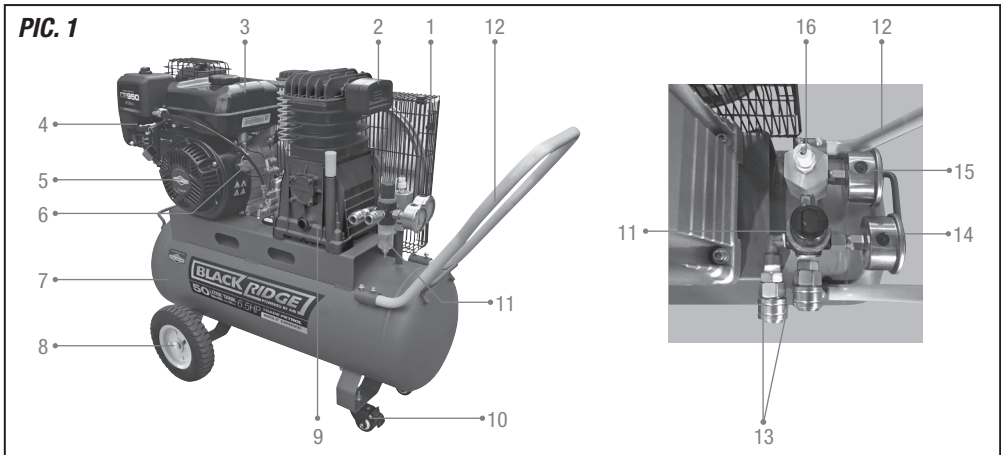
Oil capacity - approximately five hundred and fifty millilitres (0.55L or 550ml) to six hundred millilitres (0.6L or 600ml)

Oil type - SAE30W

- Always check oil level before using
- Always use fresh clean oil
- Change oil every 50 hours or every 3 months
- If contaminated (dirty) or old (stale) oil is used any damage caused will not be covered under warranty.

NOTE: This air compressor is fitted with an oil cut out switch. If the oil level is empty or low then the air compressor WILL NOT start or run.

Never check or add oil while the air compressor is running.



COMPONENTS AND CONTROLS, Pic. 1

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. Belt Guard & Belt 2. Air filter, Pump 3. Fuel Tank 4. Choke & Fuel Tap Controls 5. Recoil Starter 6. Engine On/Off Switch 7. Air Tank 8. Pneumatic Wheels | <ol style="list-style-type: none"> 9. In-Line Pump 10. Lockable Caster Wheels 11. Air Regulator with Oil Trap 12. Handle 13. Dual Nitto Style Fittings Outlets 14. Air Outlet Pressure Gauge 15. Tank Pressure Gauge 16. Safety Valve |
|---|---|

ASSEMBLY INSTRUCTIONS

Unpacking

Carefully unpack your air compressor. This air compressor is bulky and heavy, two (2) person lift required. Dispose of all packing material in an environmentally responsible manner.

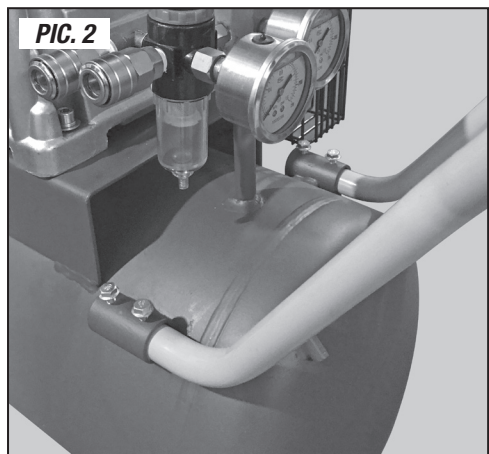
Assembly

Your air compressor requires minor assembly before initial operation. Check that you have all required components required for assembly and initial use.

Your compressor is filled with oil do not tip to assemble.

Handle, Pic. 2:

1. Loosen the bolts in the handle tubes welded to the tank.
2. Push handle into the 2 handle tubes welded to the tank.
3. Tighten the bolts to hold the handle in place.



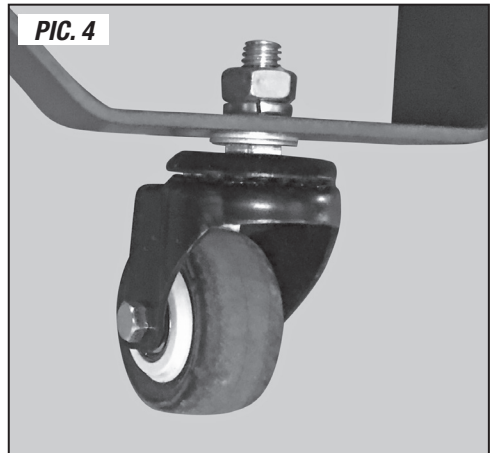
Wheels, Pic. 3

1. Insert a bolt through the wheel hole.
2. Push wheel with bolt through the tank wheel bracket.
3. Fit washer, split washer and nut.
4. Tighten the nut fully.

Caster Wheels, Pic. 4

1. Insert the caster wheel bolt through the hole in the tank bracket.
2. Fit split washer and nut.
3. Hand tighten the nut.
4. Fit other caster wheel by repeating steps 1 to 3.
5. Check the caster wheel end of the compressor is level, by gently rocking the pump from side to side.
6. If level and both caster wheels are fully against the floor, move to step 16.
7. If one caster wheel is not touching the ground, follow steps 8 to 9 to correct.
8. Loosen and remove the nut and split washer from the caster wheel which is not touching the ground.
9. Remove this caster wheel.
10. Place 1 washer on the caster wheel bolt and insert back into the tank bracket.
11. Fit split washer and nut.
12. Hand tighten the nut.
13. Check the caster wheel end of the compressor is level, by gently rocking the pump from side to side.
14. If level and both caster wheels are fully against the floor, move to step 16.
15. If one caster wheel is not touching the ground, follow steps 8 to 9 to correct.
16. Fully tighten both caster wheel nuts.

NOTE: Both caster wheels need to be fully level on the floor to minimize vibration.



WARNING

Do not attempt to operate this compressor until it is fully assembled.

Damage caused due to incomplete assembly will not be covered under warranty.

Ensure the air compressor has stopped and is turned off before carrying out any assembly, maintenance or adjustments on the machine.

Never under fill or over fill with oil.

OPERATING INSTRUCTIONS

Factory Fitted Items

1. Pump air filter
2. Pump oil breather
3. Pump filled with oil, check pump oil level, Pic 5A and 5B

Pump Oil, Pic. 5A and 5B

Warning: Your air compressor pump IS FILLED with OIL!

Your pump is factory filled with oil, however please check the oil sight glass to ensure the oil level is correct.

To check the pump oil level:

1. Always check the oil level when the air compressor is on flat and level ground.
2. Look at the sight glass and ensure the oil is above the red dot on the sight glass, as per the "OIL LEVEL GAUGE" label, see Pic. 5A and 5B.

To add pump oil, if required, additional oil not included:

1. Make sure air compressor is level
2. Clean the oil breather area of any dirt and debris
3. Remove oil breather, see Pic 5B.
4. Add oil, SAE30 to at least the top of the red dot, see Pic. 5A and 5B.
5. Oil level will take about 1 minute to drain down and settle.
6. Check oil level in sight glass, see Pic. 5A and 5B. Re-check and top up if required, until level is correct.
7. Replace oil breather, and wipe area clean of any excess oil.

To remove pump oil, if required:

1. Make sure air compressor is level
2. Clean the oil drain bolt area of any dirt and debris
3. Loosen and remove oil drain bolt, see Pic 5B.
4. Drain oil, until the oil drops to least the top of the red dot, see Pic. 5A and 5B.
5. Replace and tighten oil drain bolt, see Pic 5B.
6. Check oil level in sight glass, see Pic. 5A and 5B.
7. If needed repeat steps 3 to 6, until level is correct.
8. Tighten oil drain bolt and wipe area clean of any excess oil.

PIC. 5A

**OVER FULL;
Drain some oil.**

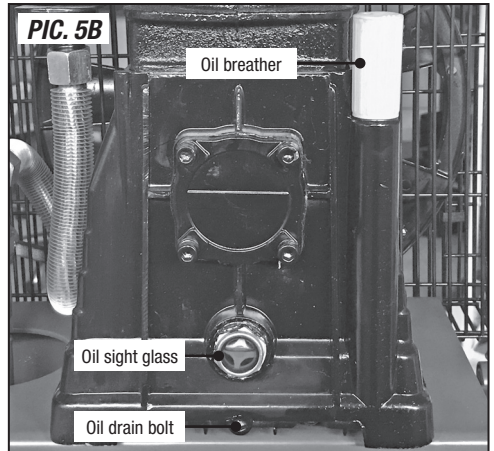
**Recommended;
Oil level ok.**

**Fill with SAE30
Immediately**

OIL LEVEL GAUGE



PIC. 5B



Engine Oil, Pic. 6A and 6B Briggs & Stratton Engine

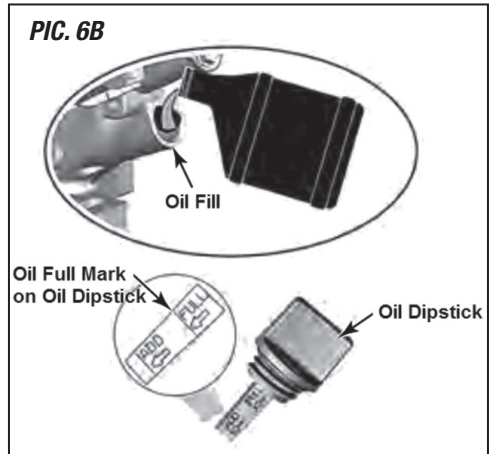
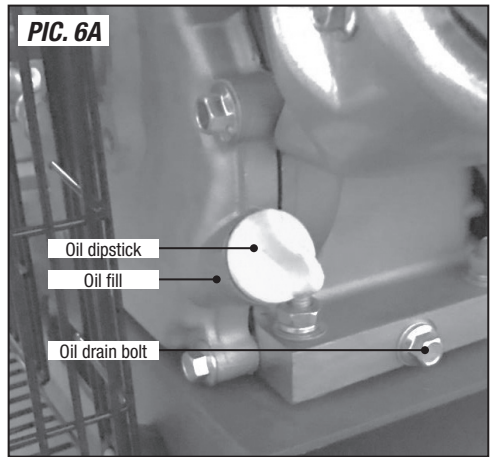
Warning: Your Briggs and Stratton Engine is NOT filled with OIL!

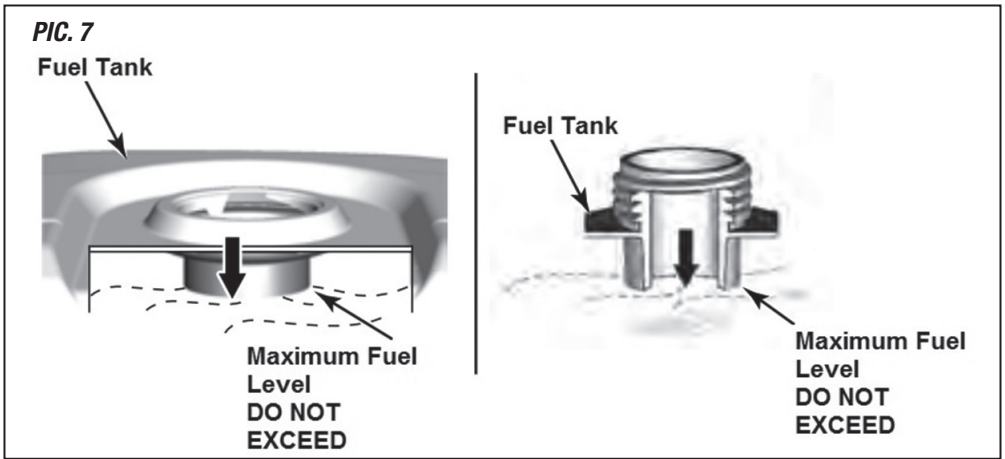
You will need to add engine oil, not included, before using your Briggs and Stratton powered air compressor.

Your Briggs and Stratton Engine is fitted with an oil sensor which will not allow the engine to start or run without the correct amount of lubricating oil.

To add engine oil, not included:

1. Make sure air compressor is level
2. Clean the oil dipstick area of any dirt and debris
3. Remove oil dipstick, see Pic 6A, and wipe with a clean cloth.
4. Replace the oil dipstick, DO NOT TURN OR TIGHTEN.
5. Remove the dipstick and check the oil level. Correct oil level is at the top of the full indicator on the dipstick, Pic.6B.
6. Add oil, SAE30, via the oil fill Pic. 6B. Add about 100ml at a time and check before adding more oil.
7. Oil level will take about 1 minute to drain down and settle.
8. Check oil level using the oil dipstick, see Pic. 6A and 6B.
9. Replace the oil dipstick, DO NOT TURN OR TIGHTEN.
10. Remove the dipstick and check the oil level. Correct oil level is at the top of the full indicator on the dipstick, Pic.6B.
11. Repeat steps 6 to 10 until correct oil level is achieved.
12. Replace oil dipstick, and wipe area clean of any excess oil.





Fuel, Pic. 7

Always use clean fresh fuel as specified on page 13.

Stale fuel can cause the Briggs and Stratton engine to run rough and damage the engine; this will not be covered by warranty.

1. Ensure the engine has stopped.
2. Ensure the fuel tap and engine switch are both OFF.
3. Allow engine to cool about 2 minutes before removing the fuel cap.
4. Use fresh fuel as detailed on page 13.
5. Do not fill fuel tank above the top of the fuel filter, Pic. 7.
6. Ensure that the fuel tank cap is screwed on tightly.



WARNING

Fuel and its vapours are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

Always fill fuel tank outdoors or in well-ventilated area.

Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.

Check fuel lines, tank, cap, and fittings frequently for cracks or leaks. Replace if necessary.

If fuel spills, wait until it evaporates before starting engine.

Do not overfill fuel tank. Allow for expansion of the fuel and do not fill above the bottom of the fuel tank neck, Pic. 7.

PRE-OPERATION FINAL CHECKS

You have now fully assembled your Briggs and Stratton powered air compressor.

To ensure all is good for your initial run just take a minute to ensure the following.

1. Check that all bolts are tight.
2. Check that both caster wheels are sitting level on the ground.
3. The fuel tap is OFF
4. The engine switch is OFF.
5. Check that the spark plug lead is firmly attached to the top of the spark plug.
6. Holding on to the belt cage gently rock the air compressor and listen for any noise which may indicate loose items. If anything appears to be loose either tighten or consult a service agent.

Initial Run

To ensure your Briggs and Stratton powered air compressor is fully lubricated please go through this initial run. This run is recommended when new and if you have not used your Briggs and Stratton powered air compressor for over 6 months.

Before starting your running in ensure that the following has been completed:

1. The air compressor has been fully assembled, see pages 10 – 11.
2. Pump oil level is correct, see page 12.
3. Engine oil level is correct, see page 13.
4. Fuel tank has been filled with the correct unleaded petrol (ULP), see page 9.

To run your Briggs & Stratton powered air compressor;

Note: For full details on starting and stopping your Briggs and Stratton powered air compressor, see below and pages 16 – 18.

1. Open the drain tap.
2. Open the unloading valve.
3. Turn the fuel tap on.
4. Turn the choke on.
5. Turn the engine switch on.
6. Using the recoil starter, start you air compressor.
7. Once started turn the choke to off.
8. Run the air compressor for approximately 1 minute, with everything open this will allow the oil to circulate fully to ensure the air compressor is fully lubricated under no load.

After about 1 minute stop the air compressor. Allow to cool for approximately 10 minutes. Recheck the pump and engine oil level and top up if needed, additional oil, SAE30, not included.

To STOP your Briggs & Stratton powered air compressor;

1. Turn the fuel tap off.
2. Turn the engine switch off.

Before starting your air compressor again ensure:

1. Tank drain tap is closed.

Note:

1. Always position compressor on level ground.
2. Always position compressor away from work area so that the compressor does not get covered in dust or paint - use a longer air hose to ensure compressor is in clean air.

STARTING YOUR AIR COMPRESSOR

Note:

Always check your air compressor for any loose parts or rattles before starting. To check hold on to the belt cage and gently rock the air compressor and listen for any noise which may indicate loose items. If anything appears to be loose either tighten or consult a service agent.

1. Always position compressor on level ground.
2. Always position compressor away from work area so that the compressor does not get covered in dust or paint - use a longer air hose to ensure compressor is in clean air.

Before starting your Briggs & Stratton powered air compressor always check;

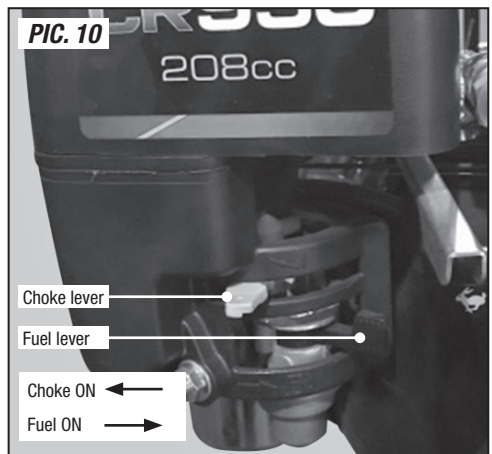
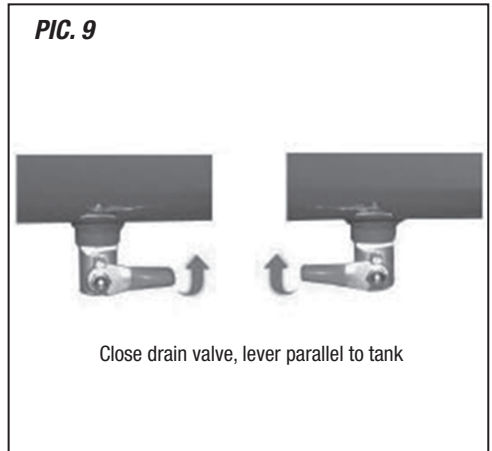
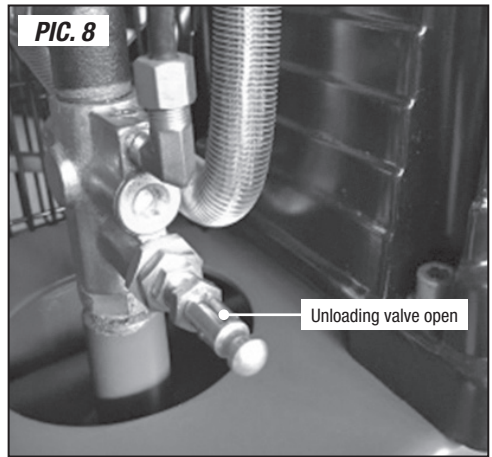
1. Pump oil level is correct, see page 12.
2. Engine oil level is correct, see page 13.
3. Fuel tank has been filled with the correct unleaded petrol (ULP), see page 9.

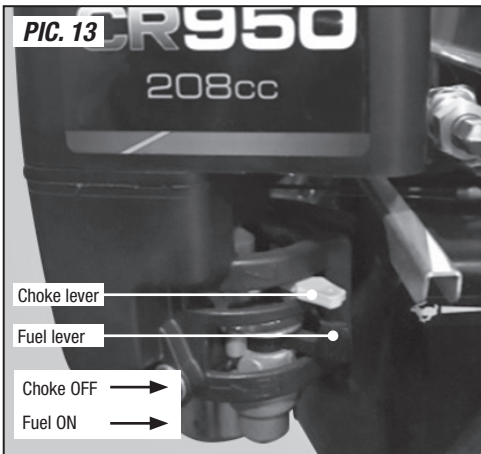
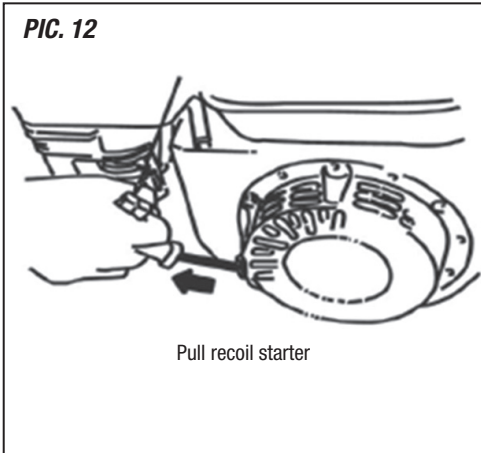
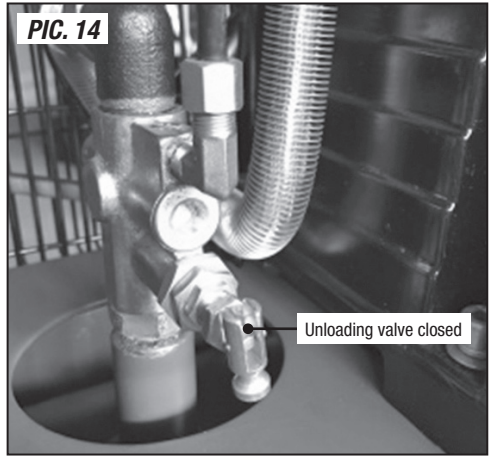
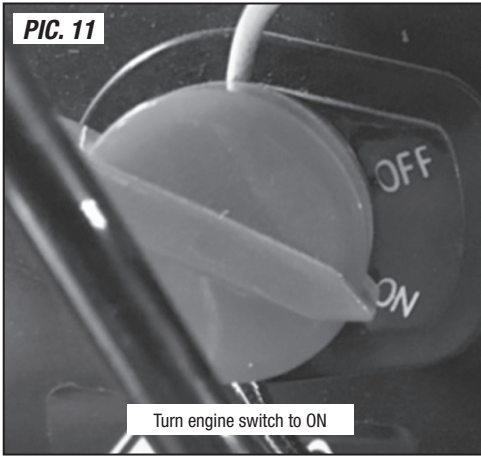
To start your Briggs & Stratton powered air compressor;

1. Ensure the air tank is empty, if not open the drain valve and drain the air tank. Your Briggs and Stratton engine will NOT start with a load on it.
2. Open the unloading valve, Pic. 8, rotate the silver aluminium lever so that it is sticking straight out.
3. Close the drain valve, Pic. 9.
4. Turn the fuel tap lever on, Pic. 10, this moves to the right.
5. Turn the choke lever on, Pic. 10, this moves to the left.
6. Turn the engine switch to on, Pic, 10, this rotates down.
7. Pull the recoil starter, Pic. 12, slowly until engaged, then pull briskly. This step may need to be repeated until the Briggs and Stratton engine starts, this can take up to about 12 pulls.

Warning: Never pull the recoil once the engine has started. Any damage caused will not be covered under warranty.

8. Once engine has started, turn the choke to OFF, Pic. 13, this moves to the right.
9. Your Briggs and Stratton powered air compressor is now running and ready to use.





USING YOUR AIR COMPRESSOR

With your Briggs and Stratton engine running, you can now start using your air compressor.

To use your air compressor:

1. Close the unloading valve, Pic. 14, rotate the silver aluminium lever so that it is hanging down "loose". This will allow the pump to start filling your tank.
2. Allow the tank to fill completely.
3. Once the tank is full (115PSI/8Bar) the Briggs and Stratton engine will slow to an idle.
4. You can now start using your air tools. See the "Connecting Air Tools" section, for information on how to attach your air hose and tool.

NOTE: Your Briggs and Stratton engine will automatically go to full speed once the tank pressure drops to about 85PSI/6Bar.

Once the tank is full (115PSI/8Bar) the Briggs and Stratton engine will slow to an idle.

This will continue automatically until you turn the engine OFF.

Stopping Your Air Compressor

To stop your Briggs and Stratton powered air compressor;

1. Turn the fuel tap lever OFF, Pic. 15, this moves to the left.
2. Turn the engine switch to OFF, Pic. 16, this rotates up.
3. Open the drain valve, Pic. 17.

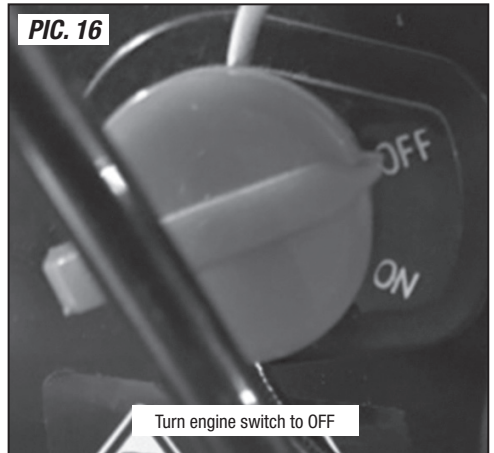
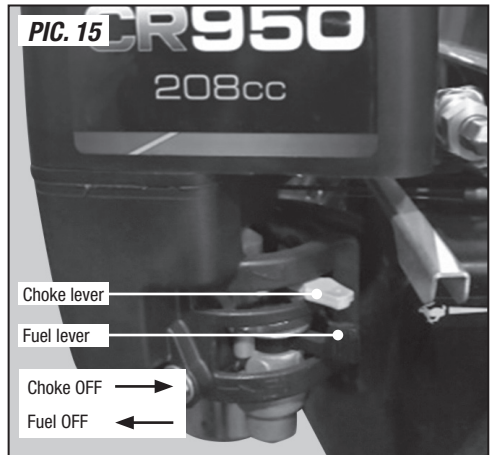
Connecting Air Tools

This Briggs and Stratton powered air compressor has a maximum pressure of 8 bar. Always regulate the outlet air pressure to match your air tool. Different air tools require different operating pressures. Always check with the tool manufacturer if unsure.

The configuration of tools and accessories can be varied to suit your particular requirements. A basic recommended set up is shown in Pic.18.

When connecting your air hose and/or air tool:

1. Lift up the regulator cap and turn anti-clockwise.
2. This will reduce the outlet pressure, continue winding anti-clockwise till the outlet pressure gauge is showing 0PSI/0Bar. This will allow easy connection.
3. Connect your air hose the longer the air hose the better.
4. Connect your air tool.
 - a. Always check your air tool manual to find out the tools recommended operating pressure.
5. To adjust the pressure turn regulator cap clockwise.
6. This will increase the outlet pressure, continue winding clockwise till the outlet pressure gauge is showing the correct pressure for the selected tool.
7. Push regulator cap down to ensure it does not change position with vibration.



Disconnecting Air Tools

When disconnecting your air hose and or air tool

- 1 Lift up the regulator cap and turn anti-clockwise.
- 2 This will reduce the, outlet pressure, continue winding anti-clockwise till the outlet pressure gauge is showing 0PSI/0Bar. This will allow easy disconnection.
- 3 Disconnect your air hose and or air tool.

Nitto Style Fitting

The Nitto style fittings are operated by;

1. Pulling the outer collar back on the female Nitto style fitting on the regulator.
2. Push the “male” Nitto style fitting in until it clicks and the collar slides back into place.
3. To remove pull the outer collar back on the female Nitto style fitting on the regulator.
4. Gently pull the “male” Nitto style fitting out.
5. The collar will slide back into place.

PIC. 18



MAINTENANCE

Periodical checking and maintenance is required to ensure that your Briggs and Stratton powered air compressor stays in good working order.

Safety Valve, Pic. 19

NOTE: When checking the safety valve ALWAYS wear safety glasses.

To check the operation of the safety valve the air tank will need to be full. Gently pull the ring upwards. This should release air under pressure. Release the ring and this should stop the air out flow once the tank pressure has dropped.

If the safety valve does NOT work in this manner, STOP the air compressor immediately and have the air compressor checked / serviced by an authorised service centre.

Filter Regulator, Pic. 20

NOTE: When draining the filter regulator ensure the air compressor is turned off and the outlet pressure has been reduced to 0PSI/0Bar.

This filter regulator is both an air pressure regulator and a moisture trap.

To adjust the outlet air pressure with this filter regulator.

To reduce the outlet pressure:

1. Lift up the regulator cap.
2. To reduce the outlet pressure wind the regulator cap anti-clockwise till the outlet pressure gauge is showing your required pressure.
3. Once required pressure is set push the regulator cap down to ensure it does not change with vibration

To increase the outlet pressure:

1. Lift up the regulator cap.
2. To increase the outlet pressure wind the regulator cap clockwise till the outlet pressure gauge is showing your required pressure.
3. Once required pressure is set push the regulator cap down to ensure it does not change with vibration.

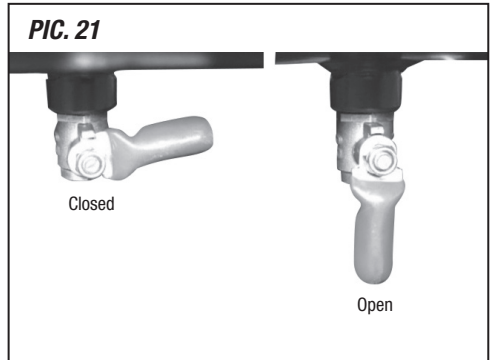
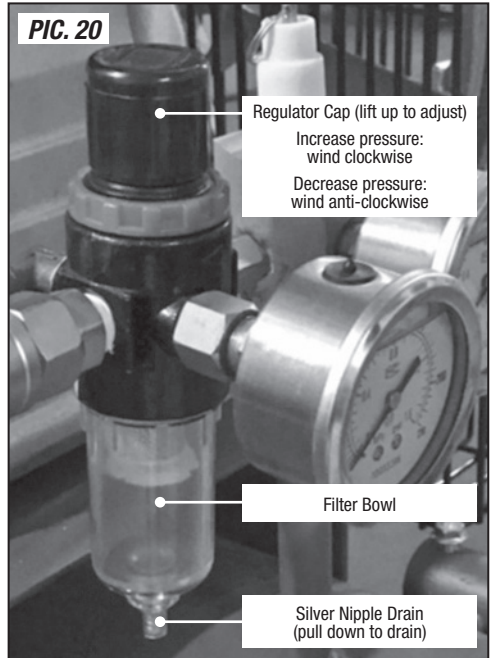
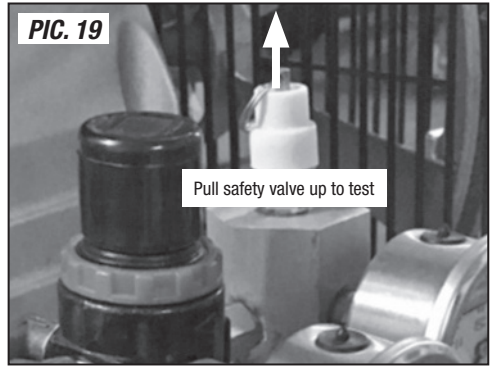
To drain the filter regulator bowl:

1. Turn your air compressor off.
2. Reduce the outlet pressure to 0PSI/0Bar by winding the regulator cap anti-clockwise till the outlet pressure gauge is showing 0PSI/0Bar.
3. Position a small bowl or cup under the filter regulator bowl.
4. To drain pull the silver nipple drain down.
5. Once bowl is empty release the nipple drain.

Note: If the bowl fills up too high it will automatically drain out some of the liquid to stop this liquid being sucked up into the air again,

This may result in drips under the filter and on the tank.

NOTE: This is not a fault.



To clean the filter regulator bowl

1. Turn your air compressor off.
2. Reduce the outlet pressure to 0PSI/0Bar by winding the regulator cap anti-clockwise till the outlet pressure gauge is showing 0PSI/0Bar.
3. Loosen and remove the filter bowl.
4. Empty contents.
5. Using mild detergent and a clean cloth clean and wipe out the filter bowl.
6. Rinse in clean water and wipe dry.
7. Re-fit filter bowl and hand tighten.

Drain Tap, Pic. 21

After use open the drain tap to drain excess air and any moisture. Pic. 20

The excess air will also help purge the moisture.

Leave the drain tap open when air compressor is not in use, so any moisture can continue to drain

To open the drain tap pull the lever down to vertical.

To seal the drain tap push the lever up to horizontal.

NOTE: Remember to seal the drain tap before starting the compressor.

Daily Checks

Every day before use check the following;

1. Pump oil level.
2. Engine oil level.
3. Engine fuel level.
4. Belt tension and belt straightness.
5. Safety valve operation.
6. Drain the filter regulator bowl.
7. Clean around the engine muffler.
8. Clean around engine air filter.
9. Clean around pump air filter.
10. Drain air tank.

MAINTENANCE SCHEDULE

NOTE: If unsure how to do any of these checks please contact our service centre or an authorised service agent.

NOTE: When performing any maintenance or servicing always ensure the air compressor is stopped and turned off.

First 5 Hours

- Change engine oil
- Change pump oil

Daily or Every 8 Hours

- Check engine oil level
- Clean area around engine muffler and engine controls
- Clean engine air intake grill
- Check pump oil level
- Check belt tension and belt straightness
- Check safety valve operation
- Clean area around pump air filter
- Drain the filter regulator bowl
- Drain air tank

Every 25 Hours or Every Month

- Clean engine air filter*
- Clean pump air filter*
- Clean pre-cleaner, if equipped

Every 50 Hours or Every 3 Months

- Change engine oil
- Change pump oil
- Service exhaust system

Every 200 Hours or Annually

- Replace spark plug
- Replace engine air filter
- Replace pump air filter
- Replace belt
- Replace pre-cleaner, if equipped
- Service fuel system
- Service cooling system*
- Check valve clearance**

* In dusty conditions or when airborne debris is present, clean more often.

** Not required unless engine performance problems are noted.

OIL CHANGE

Used oil is a hazardous waste product and must be disposed of properly. Do not discard with household waste. Check with your local authorities, service center, or dealer for safe disposal/recycling facilities.

Engine

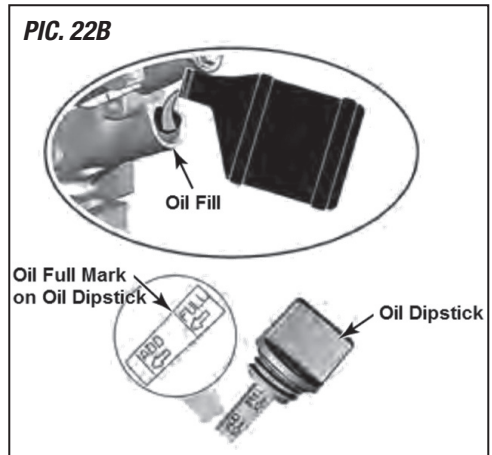
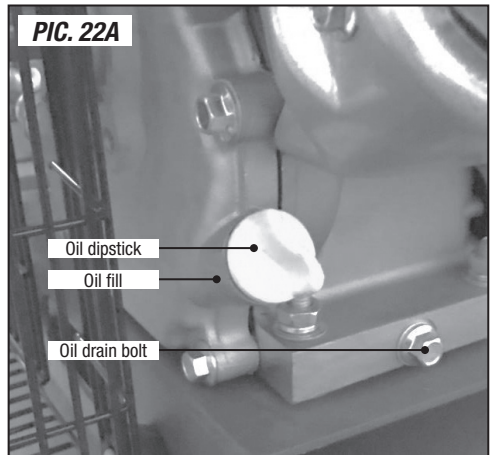
Draining oil

1. With engine off but still warm, disconnect the spark plug wire and keep it away from the spark plug.
2. Remove the oil dipstick.
3. Remove the oil drain bolt.
4. Drain the oil into an approved container.
5. After the oil has drained, install and tighten the oil drain bolt.

To add engine oil, not included:

1. Make sure air compressor is level.
2. Clean the oil dipstick area of any dirt and debris.
3. Remove oil dipstick, see Pic 22A, and wipe with a clean cloth.
4. Replace the oil dipstick, DO NOT TURN OR TIGHTEN.
5. Remove the dipstick and check the oil level. Correct oil level is at the top of the full indicator on the dipstick, Pic.22B.
6. Add oil, SAE30, via the oil fill Pic. 22B. Add about 100ml at a time and check before adding more oil.
7. Oil level will take about 1 minute to drain down and settle.
8. Check oil level using the oil dipstick, see Pic. 22A and 22B.
9. Replace the oil dipstick, DO NOT TURN OR TIGHTEN.
10. Remove the dipstick and check the oil level. Correct oil level is at the top of the full indicator on the dipstick, Pic.22B.
11. Repeat steps 6 to 10 until correct oil level is achieved.
12. Replace oil dipstick, and wipe area clean of any excess oil.

Pump, see page 12.



AIR FILTER

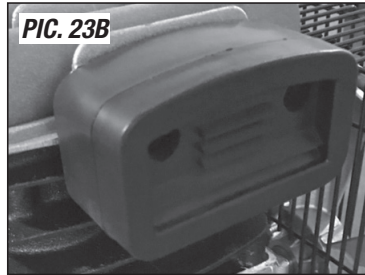
Both the engine and pump air filters should be checked and cleaned every 25 hours and replaced annually or more often if used in dusty conditions.

To check or replace the engine air filter, Pic. 23A

1. Remove the air filter thumb nut and cover.
2. Remove air filter wing nut, washer and element.
3. If dirty clean or replace air filter element.
4. Slide (new) air filter element onto the air filter box.
5. Replace air filter element, washer and wing nut.
6. Replace the air filter cover and thumb nut.

To check or replace the pump air filter, Pic. 23B

1. Wipe around the air filter to remove any dirt or debris.
2. Unscrew the screws inside the air filter.
3. Remove air filter.
4. If dirty replace air filter.
5. Replace air filter.
6. Replace the air filter screws and tighten to secure the air filter. Do not OVER TIGHTEN as this may damage the air filter or cylinder head which will not be covered under warranty.



BELT TENSION

Correct belt tension is paramount to a safe and reliable air compressor. Too tight a belt can cause damage to bearings and premature motor failure. These failures will not be covered by warranty. Too loose a belt can cause poor performance and excess heat due to slippage which can also lead to premature component failure. This will not be covered by warranty. To check the belt tension, gently push down midway between the two pulleys the belt should only move between 10mm – 15mm, Pic. 15. If the belt moves more than this amount then you will need to tighten the belt.

To adjust the belt tension, follow these simple steps;

1. Loosen the motor bolts, Pic. 24.
2. Slide the motor forward or backward to correct position.
3. Tighten the motor bolts.
4. Check belt tension and repeat if needed.
5. If uncertain about attempting the above steps please consult an authorised service agent.

Belt Straightness, Pic. 25

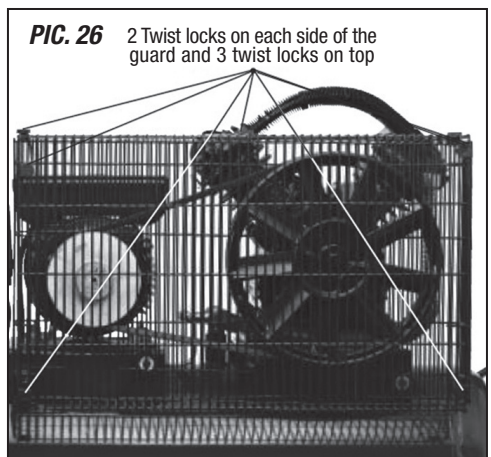
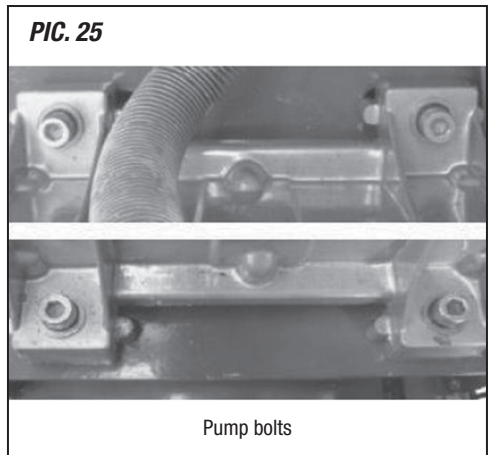
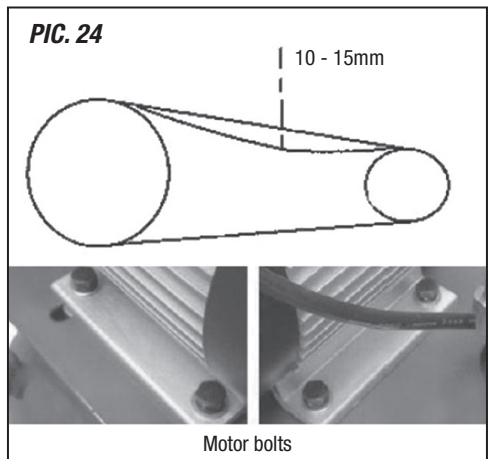
Belt straightness is paramount to a safe and reliable air compressor. The belt should always run in a straight line between the two (2) pulleys. If the belt is on an angle this could cause excessive strain and wear on components. This will not be covered by warranty. The belt should run parallel to the two pulleys. If not, adjust. To adjust the belt straightness, follow these simple steps;

1. Loosen the pump bolts, Pic. 25.
2. Slide the pump to the appropriate position.
3. Tighten the pump bolts.
4. Check belt straightness and repeat if needed.
5. Check belt tension and correct if necessary.

Belt Replacement, Pic. 26

The belt will need replacing if it has been damaged, worn, or it has reached 200 hours of use. To replace the belt follow these steps;

1. Undo and remove the belt guard twist locks, see Pic. 26.
To remove twist locks use pliers to rotate the twist locks by 90° then remove.
2. Remove the front of the belt guard.
3. Loosen the motor bolts Pic. 15.
4. Remove the belt.
5. Clean both pulleys with a dry soft cloth. DO NOT USE any lubricants or solvents as this can damage the new belt by causing slippage.
6. Fit new belt.
7. Set correct belt tension
8. Check the belt straightness and tension, adjust if required.
9. Replace the front of the belt guard.
10. Replace then tighten the belt guard twist locks.
To replace twist locks use pliers to rotate the twist locks by 90°. The replacement belt is similar to (Bosch Style) 13A1230.





TROUBLE SHOOTING

If your engine does not start

- Check that there is the correct amount of oil in the engine sump, refer to pages 9 and 12.
- Check that the engine switch is to ON, refer to pages 17 -18.
- Check that you have moved the choke lever to ON, refer to pages 17- 18.
- Check that you have moved the fuel tap lever to ON, refer to pages 17-18.
- No or low fuel in the fuel tank. Fill fuel tank.
- Possible no spark. Check / replace spark plug.
- Ensure that the unloading valve is open, if not open the unloading valve, see page 17.

If your compressor does not built up pressure

- Check that the tank drain tap is closed.
- Check that the unloading valve is closed, if not close unloading valve, see page 17.
- Check that the pump air filter is clean, if not replace, see page 23.

If your compressor smells like burnt oil

- Check the pump oil level as it may be low.

If these tips do not work please have your unit checked by an authorised service centre. Call BLACKRIDGE for your closest centre.

Aust. 1300 660 457 N.Z. 0800 474 876

REPAIRS

Repairs to your generator should only be carried out by an authorised service agent. Call BLACKRIDGE for your closest centre.

Aust. 1300 660 457 N.Z. 0800 474 876

SERVICE LOG

Purchase Date _____

Place of Purchase _____

3 MONTHS

This Service is to be complete within 50 hours or 3 months of purchase, which ever comes first.

Replace	Check & Adjust
Air filter - pump	Spark plug
Oil - pump	
Air filter	
Oil	
Authorised Service Agent (Name or Company Stamp)	
Technician	
Date	

9 MONTHS

This Service is to be complete within 150 hours or 9 months of purchase, which ever comes first.

Replace	Check & Adjust
Air filter - pump	Spark plug
Oil - pump	
Air filter	
Oil	
Authorised Service Agent (Name or Company Stamp)	
Technician	
Date	

6 MONTHS

This Service is to be complete within 100 hours or 6 months of purchase, which ever comes first.

Replace	Check & Adjust
Air filter - pump	Spark plug
Oil - pump	
Air filter	
Oil	
Authorised Service Agent (Name or Company Stamp)	
Technician	
Date	

12 MONTHS

This Service is to be complete within 200 hours or 12 months of purchase, which ever comes first.

Replace
Spark plug
Engine air filter
Pump air filter
Pump belt
Oil - engine
Oil - pump
Authorised Service Agent (Name or Company Stamp)
Technician
Date

PARTS DIAGRAM

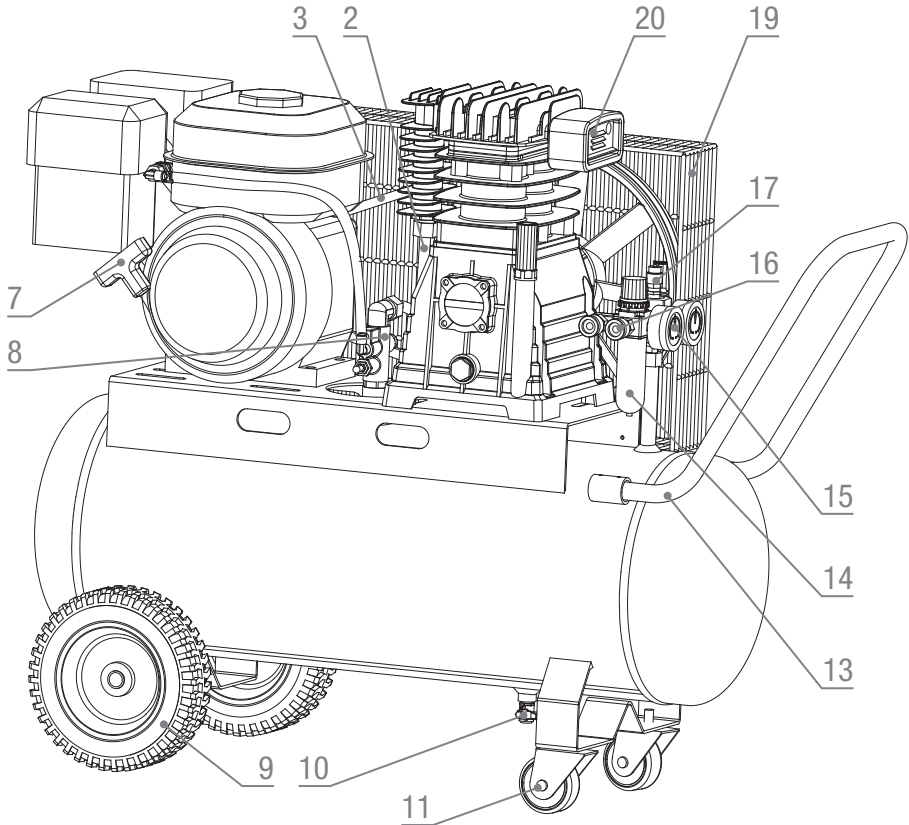


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Part	Description	Qty	SMG Part No.
2	Exhaust Tube	1	95 BRC270ET
3	Belt	1	95 BRC155B
7	Recoil Start	1	95 BRC270RS
8	Control Valve	1	95 BRC270CV
9	Wheel	2	95 BRC270WH
10	Drain Tap	1	95 BRC95DT

Part	Description	Qty	SMG Part No.
11	Castor Wheel	2	95 BRC270CW
13	Tank Handle	1	95 BRC180TH
14	Filter Regulator	1	95 BRC270FR
15	Gauge	2	95 BRC270G
16	Nitto Fitting	2	95 BRC270NF
17	Safety Valve	1	95 BRC95SPV

Specifications

Air Compressor	BRC270
Engine	Briggs and Stratton petrol
No Load Speed	1280 RPM
Free Air Delivery (FAD)	270L per minute*
Tank Size	50L
Duty Cycle	100%
Max Tank Pressure	115PSI (8BAR)
Outlet Pressure	Fully Adjustable 0 - 115PSI (0 - 8BAR), regulator with oil trap
Pump Lubrication	Oil Splash
Pump Oil	SAE30, factory filled
Engine Lubrication	Oil splash
Engine Oil	SAE30, not included, needs to be filled
Noise Rating	80dB@7m
Engine/Pump	Kicks In 85PSI
Pressure Cycle	Stops 115PSI
Number Of Outlets	2 Nitto style fittings



For any queries or assistance call Customer Service
AUST. 1300 660 457 NZ 0800 474 876

Hours of operation:

Monday to Friday 8.00am - 5.00pm AEST

Do not return to place of purchase. Keep your purchase receipt, this will be required to make any claims under the 12 month warranty.

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BLACK RIDGE
POWERED BY AIR