



PRO-BLAST OPERATORS MANUAL

BAP11/140

**PLEASE READ THESE INSTRUCTIONS CAREFULLY
BEFORE USE**

Bertolini Australasia Warranty Policy

Bertolini Australasia warrants the owner that it will repair or replace without charge parts found defective or malfunctioning in accordance with the warranty limitation and adjustment schedule below.

<u>All products</u>	
Private Domestic Use	12 months
Private and Commercial Agriculture	12 months
Agricultural Contractors	6 months
All Non-Agricultural Applications	3 months

This warranty period will begin on the date the product is delivered to the first retail purchaser.

This Warranty covers

- Only conditions resulting from defects in workmanship or material under normal use and service.

This warranty does not cover

- Conditions resulting from misuse, negligence, alteration, accidental damage or failure to perform normal maintenance services.
- Any product which has been repaired by an unauthorised Bertolini Australasia service outlet which adversely affects its performance and reliability in any way is the sole and absolute judgment of Bertolini Australasia.
- The replacement of lubricating oil, filters and belts made in connection with normal maintenance services.
- Lost time, inconvenience, loss of use of the product or other consequential damages.

The repair of defective products qualifying under this warranty will be performed by any authorised Bertolini Australasia service outlet within a reasonable time following the delivery of the product at the cost of the owner, to the service outlets place of business. The product will be repaired or replaced using new parts sold by Bertolini Australasia.

The owner is responsible for the performance of regular maintenance services as specified in the owner's operator manual applicable to the product.

- **This warranty is the only warranty applicable to Bertolini Australasia's new products and, to the maximum extent permitted by law, is expressly in lieu of any other warranties expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose.**
- **Bertolini Australasia does not authorise any person to create for it any other obligation or liability in connection with these products.**
- **Bertolini Australasia shall not be liable for incidental or consequential damages resulting from a product performing in breach of the written warranty.**
- **Given continuous product development, Bertolini Australasia reserves the right to change specifications and design without notice.**

OPERATORS MANUAL

BAP11/140

CONGRATULATIONS ON YOUR PURCHASE OF THIS BERTOLINI PRODUCT. TO ENSURE THAT OUR PRODUCT IS FUNCTIONAL AND WILL GIVE YOU LONG AND RELIABLE SERVICE WE HAVE USED THE BEST OF ENGINEERING AND DESIGN AVAILABLE.

These instructions must be read and adhered to before operating this machine.

Safety First Always

1. This machine can cause severe injury if the water jet is pointed at any part of the body. Keep feet, hands and clothing out of the pressure jet.
2. Always wear protective goggles and suitable protective clothing when operating the machine. Non slip rubber footwear must be worn when operating this machine.
3. This machine must be used by a trained operator and must be kept out of the reach of children.
4. If this machine fails to operate, call an authorised PRO-BLAST service person. Do not attempt to fix or repair this machine yourself as this will void the warranty.
5. Check that water connections are tight and that there are no water leaks from the machine.
6. Never run the machine without water in the pump.
7. Do not let the pressure cleaner get wet. Do not point the water jet at the pressure cleaner.
8. Protect the machine from the weather. Do not leave out in the rain or in freezing conditions.
9. When the machine is turned off turn water jet to a safe position and press trigger to release any built-up pressure before disconnecting hose or working on this unit.
10. Putting acids, solvents or highly corrosive materials through the pump will result in pump damage.

SPECIFICATIONS

Model	BAP11/140
Pump Model	Bertolini BXG2530
Pump Type	Triplex ceramic plunger
Pressure	2300 psi
Flow Rate	11.4 litres per minute
Unloader Valve	Part of pump
Engine	5.5 Hp Honda
Pressure Hose	8 metre 3/8 1 wire hydraulic hose
Water Inlet	3/4 BSP
Pump Oil	SAE 30
Fuel	Unleaded 91 octane
Water Inlet Pressure	Maximum positive pressure is 8 bar Maximum negative (suction) pressure is 0.3 bar
Maximum water temp	50° Celsius

START UP PROCEDURE

1. Flow test your water supply hose. It should deliver 20% more than your pump flow rate. If flow rate is not adequate see use of auxiliary tank in this manual.
2. Connect water supply hose to pump intake.
3. Connect high pressure hose to pump outlet and gun.
4. Check pump oil level, oil level should reach centre of oil sight glass in rear of pump housing. Do not over fill with oil.
5. Check engine oil level, oil level should reach full mark on engine dipstick.
6. Clean water inlet filter.
7. Check petrol, fill with unleaded 91 octane if necessary.
8. Turn water on, check that there are no water leaks.
9. Open gun trigger and wait for water to flow through, close trigger.
10. Ensure that hoses have no kinks or twists in them.
11. Before starting point jet to a safe position.
12. Turn engine on/off switch to on, adjust choke and pull start, allow engine to idle for 1 minute.
13. Move engine throttle to full. Your machine is now ready to operate.
14. At the first sign of any malfunction, stop machine and contact your local Bertolini approved service agent.

WARNING

DO NOT ALLOW PUMP/MOTOR TO RUN FOR MORE THAN TWO MINUTES WITH SHUT OFF GUN CLOSED. ALWAYS TURN PUMP/MOTOR OFF WHEN NOT IN USE. WATER WILL RECIRCULATE WITHIN THE PUMP AND BECOME HOT, CAUSING DAMAGE TO PUMP SEALS.

SHUT DOWN PROCEDURE

1. Move engine throttle to idle position, allow to idle for 30 seconds.
2. Turn engine on/off switch to off position.
3. Turn water supply tap off and disconnect water supply hose from pump.
4. Open gun trigger to release built-up pressure from high pressure hose before disconnecting from pump outlet.
5. In frost areas we recommend that while engine is switched off to pull engine over with the recoil starter 6 times to empty water out of the pump to avoid possible frost damage.

DRAWING WATER FROM AN AUXILIARY TANK

If your water supply does not exceed pump volume by 20% we suggest that you use an auxiliary tank. Set up tank as follows.

1. We suggest that you locate a 60 litre plastic drum.
2. Fit a 1 inch outlet fitting to side of tank approx 3 inches up from the bottom.
3. Fit a piece of 1 inch hose to this fitting and push over pump inlet. Hose clip both ends. Maximum hose length is 2 metres.
4. Place water supply hose into drum - turn on fully.
5. Once drum is full follow start up procedures. Drum will act as a water reservoir.

TROUBLE SHOOTING

Trouble	Possible Cause	Remedy
Pump running normally but pressure low on installation.	Pump sucking air, low water supply Valves sticking Unloader valve seat faulty Nozzle incorrectly sized or nozzle worn or damaged Worn piston packing	Flow test water supply, check for air leaks Consult service person Consult service person Consult service person Consult service person
Fluctuating pressure.	Valves worn Blockage in valves Pump sucking air Worn piston packing Blocked inlet water filter	Consult service person Consult service person Check water supply for air leaks Consult service person Clean filter
Pressure low after period of normal use.	Nozzle worn Suction or delivery valves worn Suction or delivery valves blocked Unloader valve seat worn Worn piston packing's	Check and replace if required Consult service person Consult service person Consult service person Consult service person
Pump noisy	Air in suction Broken or weak valve springs Foreign matter in valves Worn bearings Excessive temperature of liquid	Check water supply for air leaks Consult service person Consult service person Consult service person Reduce to below 50°C
Presence of water in oil	Oil seals worn High humidity in air Piston packing worn	Consult service person Change pump oil Consult service person
Water dripping from under pump	Piston packing worn Oring plunger retainer worn	Consult service person Consult service person
Oil leaking from pump	Oil seal worn Loose drain plug	Consult service person Check and tighten if required

TAMPERING WITH MACHINE WILL VOID WARRANTY