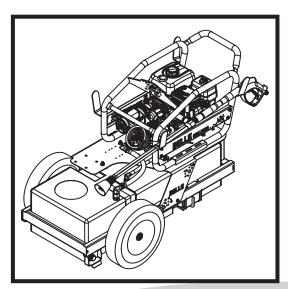


(GB) Operators Manual

870/60002/0

08/24

4



2

UKCA Declaration of Conformity



EC Declaration of Conformity



Declaration Of Conformity (DOC)

We, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):



	······	
PRODUCT TYPE		
MODEL		
SERIAL No		
DATE OF MANUFACTURE		
SOUND POWER LEVEL MEASURED /(GUARANTEED)		
WEIGHT		

Object of the Declaration:

Petrol / diesel engine driven, heavy-duty, high pressure bowser washer.

The object of the declaration described above is in conformity with the relevant **Statutory Requirements**:

- 2008 No. 1597	Supply of Machinery (Safety) Regulations 2008
- 2001 No. 1701	Noise Emission in the Environment by Equipment for use
	Outdoors Regulations 2001
- 2016 No. 1091	Electromagnetic Compatibility Regulations 2016
- 2012 No. 3032	The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The following designated standards and technical specifications have been applied:

- EN ISO 12100:2010	Safety of machinery	
- BS EN 1829-1:2021	High-pressure water jet machines. Safety requirements - Machines	
- ISO 3744:2010	Acoustics — Determination of sound power levels and sound energy	
	levels of noise sources using sound pressure	

Technical Files are held by Ray Neilson at the Altrad Belle address stated above:-

Place of Declaration:-

Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK

Date of Declaration:-

August 2024

Signed by: Ray Neilson

> Managing Director On behalf of Altrad Belle Sheen, Derbyshire, UK

	a, Nr. Buxton, Derbyshire, SK17 0EU, GB declard delayed belongs to the followings product(s):	are that the DoC is issued under
PRODUCT TYPE		Signed by:
MODEL		Ol. Nation
SERIAL No		Ray Neilson
DATE OF MANUFACTURE		Managing Director On behalf of Altrad Belle, Sheen, Derbyshire, UK
SOUND POWER LEVEL MEASURED / (GUARANTEE WEIGHT		Place of Declaration:- Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK Date of Declaration:- August 2024
Object of the Declaration Petrol / diesel engine drive	on: /en, heavy-duty, high pressure bowser washer.	
The object of the declara - 2006/42/EC - New mac	tion described above is in conformity with the re hinery directive - 2000/14/EC - Noise -	levant Union Harmonisation Legislation: equipment for use outdoors
	d standards and technical specifications have be Safety of machinery High-pressure water jet machines. Safety requir Acoustics - Determination of sound power levels using sound pressure	rements - Machines
	by Hugues Menager at the following address:- , 125 Rue du Mas Carbonnier, 34000, Montpellie	۶r, France.
GB	EU Declaration Of C	onformity (DOC)
	, Nr. Buxton, Derbyshire, SK17 0EU, GB declard debelongs to the followings product(s):	are that the DoC is issued under
PRODUCT TYPE		Signed by:
MODEL		OC. Nan
SERIAL No	See information	Ray Neilson Managing Director
DATE OF MANUFACTURE		On behalf of Altrad Belle, Sheen, Derbyshire, UK
SOUND POWER LEVEL MEASURED / (GUARANTEE	D)	Place of Declaration:- Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK
WEIGHT		Date of Declaration:- August 2024
Object of the Declaration Petrol / diesel engine drive	o n: ven, heavy-duty, high pressure bowser washer.	
The object of the declara - 2014/30/EU - EMC dire	tion described above is in conformity with the rel ctive - 2011/65/EU - Restrict	levant Union Harmonisation Legislation : ion of Hazardous Substances Directive
The following harmonise	d standards and technical specifications have be	en applied:

4 .

04

 \mathbf{c}

(DOC)

. .

The following harmonised standards and technical specifications have been applied:

- EN ISO 12100:2010 Safety of machinery

- BS EN 1829-1:2021High-pressure water jet machines. Safety requirements - Machines- ISO 3744:2010Acoustics - Determination of sound power levels and sound energy levels of noise sources
using sound pressure

Technical Files are held by **Hugues Menager** at the following address:-**Altrad (Group Holding)**, 125 Rue du Mas Carbonnier, 34000, Montpellier, France.



Contents

CONTENTS

PAGE NUMBER

UKCA DECLARATION OF CONFORMITY EC/EU DECLARATION OF CONFORMITY	
INTRODUCTION	. 5
WARNING	. 5

MACHINE DESCRIPTION

General	6
Standard Operation	6
Danger Zone	
Main Component Locations	7
Pressure Washer Component Locations	8

TECHNICAL DATA

Static Dimensions	9
General Data	9

SAFETY INSTRUCTIONS

General	. 10
Pre-Start Checks	
Worksites	. 10
Prior to Operarting the Machine	10
Operating the Machine	.11
Transportation	.11
Fuel Safety	11
Tyre Safety	11
Oil and Lubricants	.11
During Maintenance	11
After Maintenance	. 12
Modifications & Replacement Parts	12
Risk Assessment	. 12
Safety Decals	. 13

OPERATING INSTRUCTIONS

Pre-Operation	14
Operating the Machine	14
Stopping the Machine	15
Starting the Machine	15

SERVICE AND MAINTENANCE

General	16
Maintenance Schedule	
Cleaning	17
Troubleshooting Guide	18
Environment	18
WARRANTY	19
REPLACEMENT PARTS	19

Introduction



The purpose of this publication is to enable the owner/operator to maintain and use the machine efficiently. If these instructions are followed carefully they will contribute to years of efficient and profitable operation of the machines in the true Altrad Belle tradition.

The variations in operating conditions make it impossible for the company to make comprehensive or definite statements in its publications regarding performance and methods of use of its machines, or to accept any liability for any loss or damage which may result from these statements, or from any errors or omissions.

When replacements are required, insist on genuine Altrad Belle parts, as extensive damage is liable to result from the use of inferior quality parts.

In accordance with the company's policy of continuous improvement to its machines, alteration to the specifications of machines may be made at any time without notice and the company accepts no responsibility for any discrepancies which may occur between the specifications of its machines and the descriptions thereof contained in this publications.

This manual has been written to include all factory fitted options and specifications for world-wide use, but this does not imply that all or any of these are included in the standard machine configuration. Therefore local Altrad Belle Dealer's must always be consulted about machine specifications.

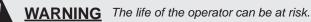
This manual may not in part, or in whole, be copied, photocopied, reproduced, translated, or converted to any electronic or machine readable form without written consent of Altrad Belle.

Directives with regard to the notations.

Text in this manual to which special attention must be paid are shown in the following way:



The product can be at risk. The machine or yourself can be damaged or injured if procedures are not carried out in the correct way.



WARNING

WARNING Before you operate or carry out any maintenance on this tool **YOU MUST READ** and **STUDY** this manual.

KNOW how to safely use the unit's controls and what you must do for safe maintenance. (NB Be sure that you know how to switch the machine off before you switch on, in case you get into difficulty.)

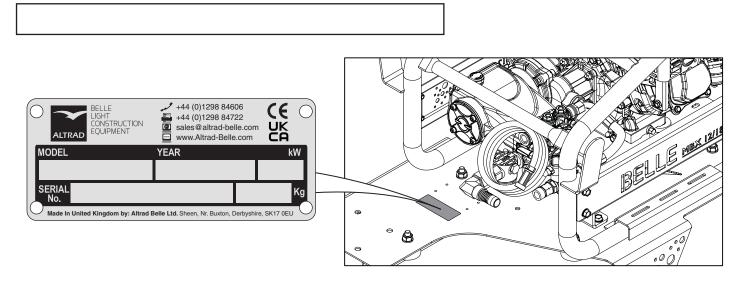
ALWAYS wear or use the proper safety items required for your personal protection. If you have ANY QUESTIONS about the safe use or maintenance of this unit, ASK YOUR SUPERVISOR OR CONTACT: Altrad Belle (UK): +44 (0) 1298 84606

GB

Serial Numbers

ENSURE you make a note of the serial numbers of your tool and always quote them in any communication with Altrad Belle or one of our dealers.

A - MACHINE SERIAL NUMBER



Machine Description

GENERAL

The 125-litre MBX 12/180 Mini Bowser Pressure Washer is designed to satisfy the demands of individuals who need maximum mobility without compromising performance. It guarantees a sufficient water supply for cleaning tasks whilst on the go and has the power to remove even the toughest dirt and grime from a range of surfaces.

STANDARD OPERATION

The machine is intended to be used in a variety of scenarios, in safe environmental conditions as described in this manual.

Any unauthorised modifications or attachments are prohibited. They may affect the performance and safety of the machine, potentially resulting in damage to the machine or injury to the operator.

Use of non-genuine replacement parts may also affect the performance and safety of the machine. potentially resulting in damage to the machine or injury to the operator.

DANGER ZONE

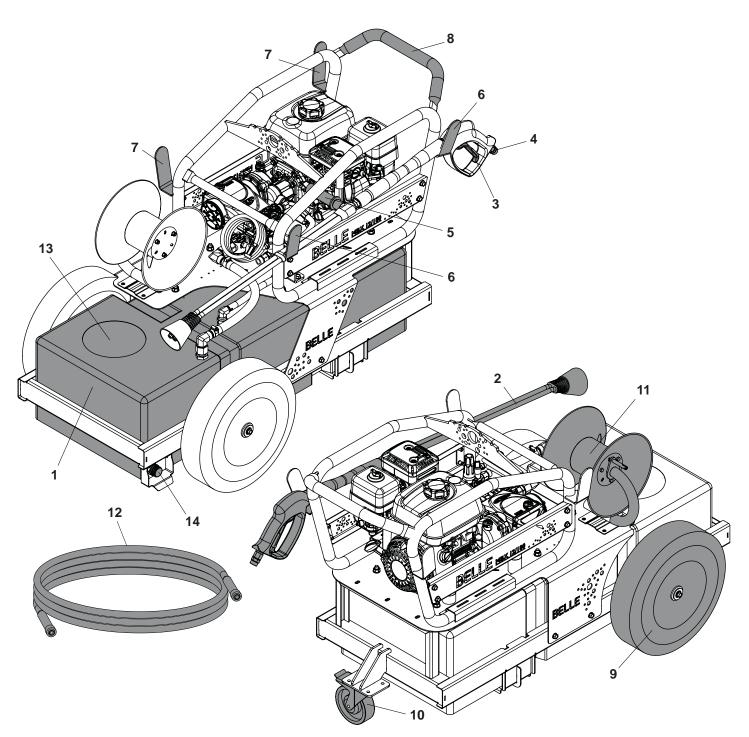
The danger zone is the area around the machine in which persons are endangered during standard operation as outlined above.

During operation of the machine, cordon off the work area and keep members of the public and unauthorized personnel at a safe distance away from the danger zone.

GB

MAIN COMPONENT LOCATIONS

The diagram below shows a version of the MBX 12/180 with the optional 10m Hose Kit fitted.



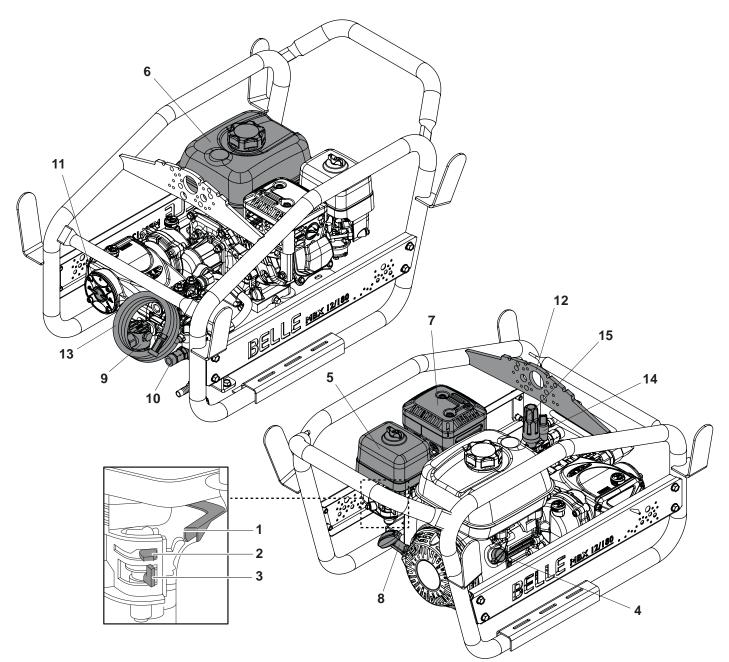
- 1. Water Tank.
- 2. Lance.
- 3. Lance Trigger.
- 4. Lance Swivel Joint.
- 5. Detergent Control Handle.
- 6. Lance Holder.
- 7. Hose Holder.

- 8. Transport Handle.
- 9. Wheel.
- 10. Braked Swivel Castor.
- 11. Optional 10m Hose Reel Kit.
- 12. High Pressure Hose.
- 13. Tank Fill Point / Strainer.
- 14. Tank Drain Point.



Machine Description

PRESSURE WASHER COMPONENT LOCATIONS

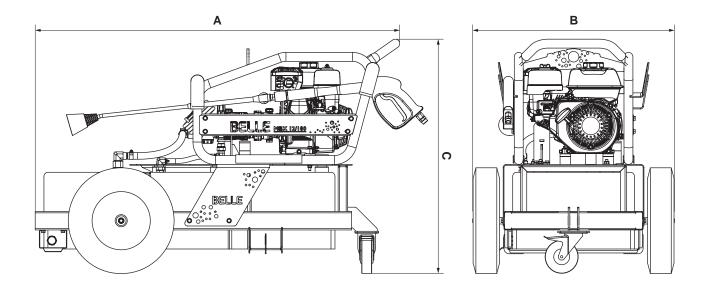


- 1. Throttle Lever.
- 2. Choke Lever.
- 3. Fuel ON / OFF Lever.
- 4. Engine ON / OFF Switch.
- 5. Air Filter Housing.
- 6. Fuel Tank.
- 7. Exhaust.
- 8. Recoil Starter Handle.
- 9. Pump Inlet Filter.
- 10. High Pressure Outlet (Non-Hose Reel versions only)
- 11. Pump Oil Level Sight Glass
- 12. Lifting Point
- 13. Detergent Inlet/Strainer
- 14. Detergent Control Valve.
- 15. Pressure Control Regulator.

Technical Data

GB

STATIC DIMENSIONS



Model	MBX 12/180
A - Length (mm)	1378
B - Width (mm)	763
C - Height (mm)	885

GENERAL DATA

Model	MBX 12/180	MBX 12/180 with Hose Reel
Unladen Weight (Kg)	*91	**100
Max. Laden Weight (Kg)	#223.5	##227
Water Tank Capacity (Ltrs)	125	125
Engine	Honda GX200	Honda GX200
Engine Power (Hp - kW)	5.8 - 4.3	5.8 - 4.3
Engine RPM	3400	3400
Water Flow (Ipm)	12	12
Max. Water Pressure (bar - psi)	180 - 2600	180 - 2600
Fuel Tank Capacity (Ltrs)	3.1	3.1
Hose Length (mm)	10	10
Hose Reel	No	Yes
Tyre Size (mm)	400-8	400-8
Tyre Pressure (psi - bar)	30 - 2.1	30 - 2.1
Gearbox Driven Pump	Yes	Yes
Sound Power Level (dB L _{WA})	108	108



Safety Instructions

GENERAL SAFETY

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. If you are unsure about the safe and correct use of the dumper, consult your supervisor or Altrad Belle.

WARNING Improper maintenance can be hazardous. Read and Understand this section before you perform any maintenance, service or repairs.

This machine is designed to eliminate the possible risks arising from the use of it. However, risks **DO** reside, and these residual risks are not clearly recognizable, and may cause personal injury or property damage, and possible death. If such unpredictable and unrecognizable risks become apparent, the machine must be stopped immediately, and operator or his supervisor must take appropriate measure to eliminate such risks. It is sometimes necessary that the manufacturer must be informed of such event for future counter measuring.

ALWAYS keep the Operator's Manual and any other manuals that accompany this machine to hand. Immediately replace any manuals that may have been lost or are now illegible.

PRE-START CHECKS

The following Pre-start-up inspection must be performed before the start of each work session or after every four hours of use, whichever is first. Please refer to the service section for detailed guidance. If any fault is discovered, the dumper must not be used until the fault is rectified.

- · Place the Pressure Washer on firm level ground with the engine switched OFF.
- Thoroughly inspect the pressure washer for signs of damage. Check components are present and secure.
- Check fluid lines, hoses, filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.
- Check the engine oil level and top up as necessary.
- Check the engine fuel level and top up as necessary.
- Check for fuel and oil leaks.
- Check that all tyres are inflated correctly. Check for penetration by any sharp objects / damage.
- Ensure any access panels are closed closed correctly and locked if possible.
- Your Altrad Belle Pressure Washer comes preset and NO adjustment is necessary.
- Be aware of how to stop the Pressure Washer by use of the On/Off switch or throttle lever.
- Refer to the engine and pump manuals provided for full pre-operation check.

WORKSITES

- · Ensure the operator is familiar with the working surroundings. Worksites can be hazardous.
- Cordon off the work area and keep members of the public and unauthorized personnel at a safe distance.
- DO NOT operate the pressure washer in confined spaces without adequate venitilation. Exhaust fumes can kill!!
- Water can alter the condition of the worksite surface area. ALWAYS be aware of the condition of the surface before and during
 operation.
- ENSURE all local regulations which affect the pressure washer are adhered to.

PRIOR TO OPERATING THE MACHINE

- Suitable PPE must be worn when using this equipment and should meet relevant EEC/local standards: waterproof clothing / boots / gloves, safety goggles, helmet or helmet & visor and ear defenders. Tie back long hair and remove any jewellery which may catch in the equipment's moving parts.
- Become familiar with the controls before operating the pressure washer and make sure you know how to safely switch this
 machine OFF before you switch it ON in case you get into difficulty.
- Never remove or tamper with any guards fitted, they are there for your protection. Always check guards for condition and security, if any are damaged or missing, DO NOT USE THE PRESSURE WASHER until the guard has been replaced or repaired.
- **DO NOT** operate the pressure washer when you are ill, feeling tired, or when under the influence of alcohol or drugs.
- ALWAYS ensure the water pressure is released before starting the engine. This can be done safely by depressing the lance trigger.
- **ALWAYS** ensure high-pressure hose is connected before starting the engine.
- Replace any worn/damaged decals.
- Remove all packaging material before operating.



OPERATING THE MACHINE

- During use the engine becomes very hot, allow the engine to cool before touching it. NEVER leave the engine running and unattended.
- DO NOT operate the pressure washer in confined spaces without adequate venitilation. Exhaust fumes can kill!!
- Place the pressure washer at least 3 metres away from buildings and other equipment during operation.
- High pressure jets can be dangerous if misused. The lance must not be aimed at persons, animals, live electrical equipment or the machine itself.
- DO NOT run the pump dry for more than 30 secs. This will cause internal damage.
- DO NOT leave engine running whilst not in use for long periods. This may cause damage to internal components.
- DO NOT use the pressure washer on any equipment that is connected to mains electrical supply. ENSURE all electrical
 components are covered and check for water ingress before reconnecting to the mains supply.
- NEVER disconnect a hose with pressure in it or allow a hose to be flattened / kinked.
- ALWAYS drain water from pump after operating in cold conditions to prevent frost damage.
- DO NOT use the Pressure Washer whilst positioned on a ladded. Use a suitable platform or scaffolding.

TRANSPORTATION

- This equipment is heavy and **MUST NOT** be lifted by hand. Where possible, please use the integrated wheels to transport the pressure washer otherwise use suitable lifting equipment on the lifting point.
- · Always switch OFF the engine before transporting, moving it around the site or servicing it.
- If transporting the pressure washer on a trailer bed, ALWAYS use the designated strapping hooks on the trailer bed and ENSURE the brake on the caster is applied.

FUEL SAFETY

- Before refuelling, switch off the engine and allow it to cool.
- When refuelling, **DO NOT** smoke or allow naked flames in the area.
- Spilt fuel must be made safe immediately, by using sand. If fuel is spilt on your clothes, change them.
- Store diesel in an approved, purpose made container away from heat and ignition sources.
- If fuel is spilt when re-fuelling the tank, wipe off the excess and wait 2 minutes before re-starting.

TYRE SAFETY

- Check tyre pressure regularly (at least once a month).
- · Inspect tyres for uneven wear patterns on the tread, cracks, foreign objects, or other signs of wear or trauma.
- Remove bits of glass and foreign objects wedged in the tread.
- Make sure your tyre valves have valve caps.

OIL AND LUBRICANTS

- · When handling oil, grease and other chemical substances observe the product-related safety regulations (safety data sheet)
- If any oil or lubricants are swallowed **DO NOT** make the person vomit and seek medical attention as soon as possible.
- If the oil or lubricants comes into contact with skin or eyes, flush with lots of water for at least 15 minutes. Seek medical advice.
- Use a suitable container to collect fluids and lubricants as they flow out and dispose of them in an environmentally friendly manner
- ALWAYS store oil and lubricants in secure labelled containers.

DURING MAINTENANCE

- · Carry out maintenance and repair work only if the pressure washer is positioned on stable and level ground.
- **NEVER** service the machine while the engine is running, always switch OFF.
- ALWAYS chock the wheels and ENSURE the caster brake is applied before starting any maintenance work.
- Clean the pressure, especially connections and threaded unions, of any traces of oil, fuel or preservatives before carrying out maintenance/repair. Never use aggressive detergents. Use lint-free cleaning rags.
- When handling oil, grease and other chemical substances, observe the product related safety regulations.



Safety Instructions

AFTER MAINTENANCE

- ALWAYS tighten any screwed connections that have been loosened during maintenance and repair.
- Any safety devices removed for set-up, maintenance or repair purposes must be refitted and checked immediately upon completion of the maintenance and repair work.
- ENSURE that all consumables and replaced parts are disposed of safely and with minimum environmental impact.

MODIFICATIONS & REPLACEMENT PARTS

- **NEVER** make any modifications or additions to the machine without the prior approval of Altrad Belle. Any unapproved modifications may affect the performance and safety of the machine. This may also voide the Warranty.
- **ALWAYS** use genuine Altrad Belle replacement parts. Use of non-genuine replacement parts may affect the performance and safety of the machine. This may also voide the Warranty.

Genuine Altrad Belle replacement parts can be purchased online at www.Altrad-Belle247.com

RISK ASSESSMENT

It is the responsibility of the operator to ensure that the dumper is used in a safe manner, taking into account all aspects of the worksite and working conditions on and around the worksite.

The following are given as a guide to be taken into account when the risk assessment is made. There may be others factors that need to taken into consideration also.

OPERATOR

- · Is the operator of the pressure washer sufficiently trained with competant knowledge of all controls?
- Is the operator fit and physically able to operate the pressure washer? An operator who is sick, tired or under the influence of alcohol or drugs is a dangerous operator.

WORKSITE

- Are the any steep gradients or precipices that need to be avoided?
- · Is the ground solid and stable enough to operate the pressure washer?
- Are the any obstacles or hazards in the area that need to taken into consideration? Eg. Power cables, barriers, man-hole covers, excavations?
- · Are members of the public and unauthorised personnel cordoned off from the area the pressure washer is operating?

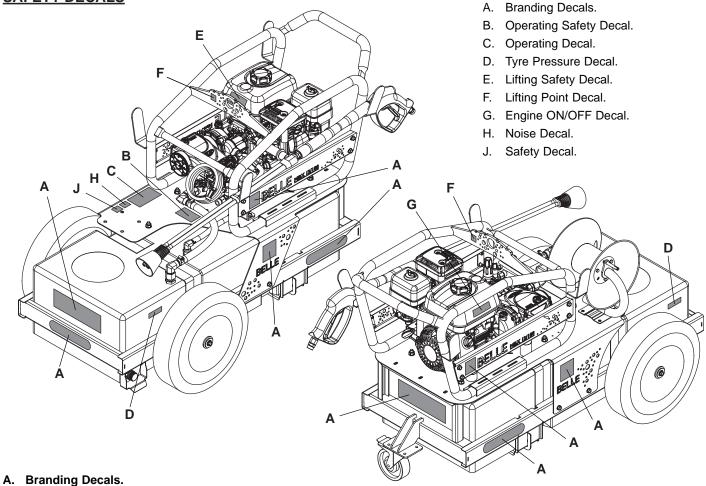
PRESSURE WASHER

- Is the pressure washer in a suitable working condition?
- · Have the pre-start checks listed in this manual being carried out, and any indentified faults been rectified?

Safety Instructions



SAFETY DECALS



- **Operating Safety Decal.** В.

Highlights important safety information that must be read before operating the machine.

C. Operating Decal.

Information on how to safely start the Bowser Pressure Washer.

- D. Tyre Pressure Decal. Indicates the recommended tyre pressure.
- E. Lifting Safety Decal. DO NOT lift the Bowser when there is water in the tank.
- Lifting Point Decal. F. Indicates the Lifting Points on the frame.
- G. Engine ON/OFF Decal. Indicates the position of the On/Off Switch on the engine.
- Н. Noise Decal.

Indicates the noise level emitted from the machine.

J. Safety Decal.



Please Read **Operators Manual**



Wear Protective Footwear



Wear Ear Protection



Wear Eye Protection



Operating Instructions



WARNING Before you operate or carry out any maintenance on this machine YOU MUST READ and STUDY this manual.

PRE-OPERATION

- Check your Pressure Washer before use and IMMEDIATELY replace any damaged parts.
- · Place the Pressure Washer on firm level ground with the engine switched OFF.
- · Check the engine oil level, low oil levels will result in the engine not starting.
- Check the fuel level.
- This equipment is could emit a Sound Power Level (LWA) of up to 108dB(A). See Technical Data section for more details and wear appropriate ear defenders.
- Your Altrad Belle Pressure Washer comes preset and NO adjustment is necessary.
- Be aware of how to stop the Pressure Washer by use of the On/Off switch or throttle lever.

Refer to the engine and pump manuals provided for full pre-operation check.

HOSE CONNECTION - HIGH PRESSURE OUTLET (MACHINE MUST BE TURNED OFF)

- Ensure in-line filters are in good condition and not removed.
- Check condition of the o-rings in the ends of the hose.
- Attach the high pressure hose to the pump connection.
- Attach the lance to opposite ends of the high pressure hose.

OPERATING THE MACHINE

- · Start the engine (see start and stop procedure)
- · Aim the lance at the area being cleaned and press the lance trigger.
- · Adjust the pressure regulator to obtain required working pressure. ALWAYS use on full throttle.

CAUTION The high pressure of water may cause the lance to jolt. Ensure you have a good grip of the lance before operating the pressure washer.

- On completion of the job, stop the engine (see start and stop procedure)
- Press the lance trigger to release the pressure within the lance.

CAUTION Always drain water from pump after operating in cold conditions to prevent frost damage.

When Using Detergents

- Set the machine up as for using water.
- · Connect the detergent hose to the machine and place the filter end into the detergent supply.
- Loosen detergent control valve.
- Loosen control handle to deliver detergent.
- On completion of the job, flush out the hose and lance with clean water to remove any residual detergent.
- Tighten detergent control valve.
- Tighten control handle.

When Using the Hose Reel

- Pull the securing pin in the side of the hose reel to release the reel. Unravel the hose to the desired length.
- Connect the hose to the lance.
- On completion of the job, remove the hose from the lance and reel the hose back in.

Start and Stop Procedure

(GB

ON The max. engine running speed is pre-set by the manufacturer and must not be adjusted.

STOPPING - Honda GX200

- Switch **OFF** the loads.
- Switch **OFF** the engine.
- Turn the fuel tap to the CLOSED position.

STARTING - Honda GX200

- Remove all objects placed on, or within one metre of the Pressure Washer.
- Open the fuel tap by moving the fuel ON / OFF lever fully to the right.
- If starting the engine from cold, set the choke ON by moving the choke lever fully to the left. If restarting a warm engine, the choke is usually not required, however, if the engine has cooled to a degree, partial choke may be required.
- Turn the engine ON / OFF switch clockwise to the 'I' position.
- Set the throttle to the idle position by moving the throttle lever fully to the right.
- Taking a firm hold of the frame with one hand, grasp the recoil starter handle with the other. Pull the recoil starter until engine resistance is felt, then let starter return.
- Taking care not to pull the starter's rope fully out, pull the starter handle briskly.
- Repeat until the engine fires.
- · Once the engine fires gradually set the choke lever to the OFF position by moving it to the right.
- If the engine fails to fire after several attempts, follow the Troubleshooting Guide.
- To stop the engine, set the throttle to idle and turn the engine ON / OFF switch anticlockwise to the '0' position.
- Turn the fuel OFF

Storage

If the machine is not to be used for a long period of time it must be stored correctly to prevent deterioration or damage occuring during this period.

Store the machine in a clean dry building with plenty of ventilation if possible. If you can only store outdoors, cover with a waterproof sheet / tarpaulin.

PREPARING THE MACHINE FOR STORAGE

- 1. Clean the machine and remove all unwanted material / debris.
- 2. Dry the machine to remove any moisture.
- 3. Apply grease to any moving parts / grease points.
- 4. Examine the machine for any worn / damaged parts. Replace if necessary.

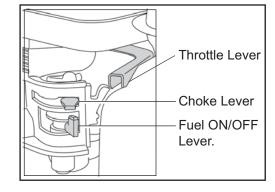
STORING THE MACHINE

1. Place the machine safely on stable, level ground. **ENSURE** there is sufficient room around the machine to be able to carry out any service or maintenance procedures during the storage period.

To prevent the build up of rust and to minimise the risk of seizures, periodically operate all machine functions during storage.

REMOVING THE MACHINE FROM STORAGE

1. Carry out the Pre-Start Check procedure from earlier in this manual.





Service and Maintenance

<u>GENERAL</u>

This machine is designed to give many years of trouble free operation. It is, however, important that the simple regular maintenance listed in this section is carried out. All maintenance procedures must be carried out by a competant, suitably qualified person.

A poorly maintained machine could be a danger to the operator and the other personnel on the worksite. **ENSURE** that the regular maintenance procedures listed in this manual are performed correctly and on time to keep the machine safe and efficient.

ALWAYS use genuine Altrad Belle replacement parts, the use of spurious parts may void your warranty.

Before any maintenance is carried out on the machine, switch off the machine and ALWAYS set the machine on stable, level ground.

ENSURE any faults identified during maintenance proceudres are addressed and corrected immediately.

MAINTENANCE SCHEDULE

The following schedule details the attentions considered necessary to ensure satisfactory operation of the Bowser Pressure Washer.

NOTE:- The attentions and periods summarised in the schedule are the initial recommendations and should be revised to suit the Power Unit working conditions. Only authorised dealers should repair the Bowser Pressure Washer, and within the requirements of the CE mark (where applicable), where no deviation from the original specification must take place.

Please refer to the Engine Manufacturers instruction manual, before attempting any maintenance checks or procedures.

Item	Attention	Daily	6 Months / 500 Hours	Yearly / 1000 Hours
Engine	Check oil level and top up a required	1		
	Check fuel level and top up a required	1		
	Drain fuel tank and refill.		1	
	Oil change	See relevant engine manual		
Hoses	Check connections for leaks or damage.	1		
	Check condition for damage.	1		
Pump	Check oil, drain and replace.		1	
	Replace seals.			✓
Fuel Filter	Replace.		1	
Water Filter	Clean.		1	
High Pressure Nozzle	Replace.		1	

Oil / Fuel Type & Quantity - Spark Plug Type

	Oil Type	Quantity (Litre)	Fuel Type	Capacity (Litre)	Spark Plug Type	Electrode Gap (mm)
Petrol Honda GX200	S.A.E. 10W 30	0.6	Unleaded	3.1	BM6ES or BPR6ES	0.7 - 0.8
Gearbox	ISO VG 220 or S.A.E. 8W 90	0.16	N/A	N/A	N/A	N/A
Pump Head	S.A.E. 15W 40	0.45	N/A	N/A	N/A	N/A

Service and Maintenance

CLEANING



IG ENSURE the bowser pressure washer is stationary on stable, level ground and the engine is switched OFF before carrying out the cleaning procedures.

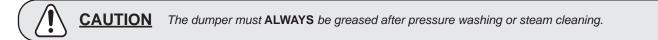
Keeping the pressure washer clean is an integral part of the service and maintenance program. The build-up of mud, dirt and debris can affect the operating safety of the machine, exposing both the operator and other personelle to potentially hazardous situations.



When cleaning the bowser pressure washer **ENSURE** that suitable PPE is worn at all times, especially when using solvents, detergents or volatile and easily flammable anticorrosion agents.

The wrong choice of cleaning equipment and agents can also affect the operating safety of the *bowser pressure washer* and undermine the health of the persons in charge of cleaning the machine.

Clean the machine, especially connections and threaded unions, of any traces of oil, fuel or preservatives before carrying out maintenance/repair. Never use aggressive detergents. Use lint-free cleaning rags.



DETERGENTS

NEVER use a full strength detergent.

ALWAYS dilute the detergents as recommended by the manufacturer, or the paint finish may be damaged.

ALWAYS follow cleaning detergent safety precautions.

After cleaning, examine all fuel, lubricant, and hydraulic fluid lines for leaks, loose connections, chafe marks and damage. Any defects found must be rectified without delay.

ENSURE local regulations are adhered to regarding the disposal of dirt / debris created from cleaning the bowser pressure washer.

Troubleshooting Guide

Problem	Cause	Remedy	
Machine stops suddenly or will not	Low oil.	Check and top-up oil.	
start.	Low fuel.	Check and top-up fuel.	
Sudden pressure loss.	No water supply.	Check supply & filters.	
	No chemical supply.	Check chemical reservoir, close valve.	
Low pressure.	High pressure nozzle worn	Replace high pressure nozzle.	
	Unloader set incorrectly.	Set unloader to correct setting.	
Low pressure, machine is noisy and vibrates.	Valves worn or blocked.	Clean / replace as required.	
	Piston seals worn.	Replace.	
	Pump sucking air.	Check water supply pipe and unions.	
Pump will not by-pass.	Non-return valve dirty or jammed.	Clean or replace.	
Water drips from pump box.	Pump seals worn.	Replace.	
Oil drips from pump bottom.	Oil seal worn.	Replace.	
Oil is cloudy.	Water ingress through oil filter plug.	Rinse pump out and replace oil	
Water leaks occasionally from underneath the machine.	Pump seals worn.	Water in pump too hot. Release pressure by operating the lance.	



Safe Disposal.



Instructions for the protection of the environment. The machine contains valuable materials. Take the discarded apparatus and accessories to the relevant recycling facilities.

Environment

Component	Material	
Frame	Steel	
Water Tank	Polyethylene	
Wheels	Rubber, Plastic & Steel	
Castor	Rubber & Steel	
Lance	Nylon, Stainless Steel & Brass	
Engine	Aluminium	
Pump	Steel, Aluminium & Brass	
Flexible Mounts	Steel and Rubber	
Various Parts	Steel and Aluminium	

Warranty

Your new Altrad Belle Bowser Pressure Washer is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase. The Altrad Belle warranty is against defects in design, materials and workmanship.

The following are not covered under the Altrad Belle warranty:

- 1. Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
- 2. Alterations, additions or repairs carried out by persons other than Altrad Belle or their recognised agents.
- 3. Transportation or shipment costs to and from Altrad Belle or their recognised agents, for repair or assessment against a warranty claim, on any machine.
- 4. Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.

The following components are not covered by warranty.

- Engine air filter
- Engine spark plug
- Nozzles

Altrad Belle and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the machine for any purpose.

Warranty Claims

All warranty claims should firstly be directed to Altrad Belle, either by telephone, by Fax, by Email, or in writing.

For warranty claims:

Tel: +44 (0)1298 84606

Fax: +44 (0)1298 84073

Email : warranty.dept@altrad-belle.com

Write to:

Altrad Belle Warranty Department, Sheen, Nr. Buxton, Derbyshire, SK17 0EU England.

Warranty Registration:

In the bid for ALTRAD Belle to become greener and more eco friendly, we have now introduced online Warranty registration. To access the registration page of our website, please use the following address:-

http://www.bellegroup.com/index.php?p=warranty_registration

Alternatively, please scan the adjacent QR Code (Quick Response Code) using your smartphone to access the registration page.

Replacement Parts

When maintaining this product only the manufacturers original, genuine replacement parts may be used.

The user will lose any possible claims if replacement parts used are other than the makers original replacement parts.

Replacement parts for this product can be ordered online 24 hours a day, 7 days a week at www.Altrad-Belle247.com

For more information regarding the availability of replacement parts for this product, please contact Altrad Belle using the following contact details:-

Tel:- +44 (0)1298 84606

Fax:- +44 (0)1298 84073

Email:- sales@altrad-belle.com



Alternatively, please scan the adjacent QR Code (Quick Response Code) using your smartphone to access the Altrad Belle online parts portal.





ALTRAD BELLE

Sheen, Nr. Buxton, Derbyshire, SK17 OEU, GB Tel. +44 (0)1298 84606 - Fax +44 (0)1298 84722 - Email: sales@altrad-belle.com **www.Altrad-Belle.com**

EU IMPORTER ADDRESS

ADRESSE DE L'IMPORTATEUR - DIRECCIÓN DEL IMPORTADOR - ENDEREÇO DO IMPORTADOR - ADRES IMPORTEUR IMPORTØRENS ADRESSE - IMPORTEUR ADRESSE - INDIRIZZO DELL'IMPORTATORE - IMPORTÖRENS ADRESS - IMPORTØRADRESSE MAAHANTUOJAN OSOITE - ADRES IMPORTERA - IMPORTIJA AADRESS - IMPORTĒTĀJA ADRESE - IMPORTUOTOJO ADRESAS ADRESA DOVOZCE - ADRESA IMPORTATORULUI - IMPORTÕR CÍME - ADRESA UVOZNIKA - İTHALATÇI ADRESI - ADRESA DOVOZCU

ALTRAD (Group Holding)

125, Rue du Mas Carbonnier, 34000, Montpellier, France Tel. +33 (0) 4 67 50 53 66 - Email: admin@altrad.com www.altrad.com