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# USER MANUAL

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## *Simpro BinBlaster*





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For reasons of standards compliance and international conformity, this document uses Système International (SI) units. These may be converted to their Imperial equivalents as follows:

1 kilogram (kg) = 2.2 pounds (lb)

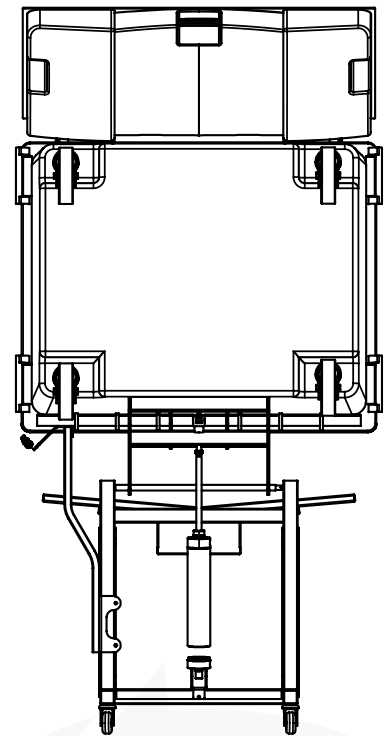
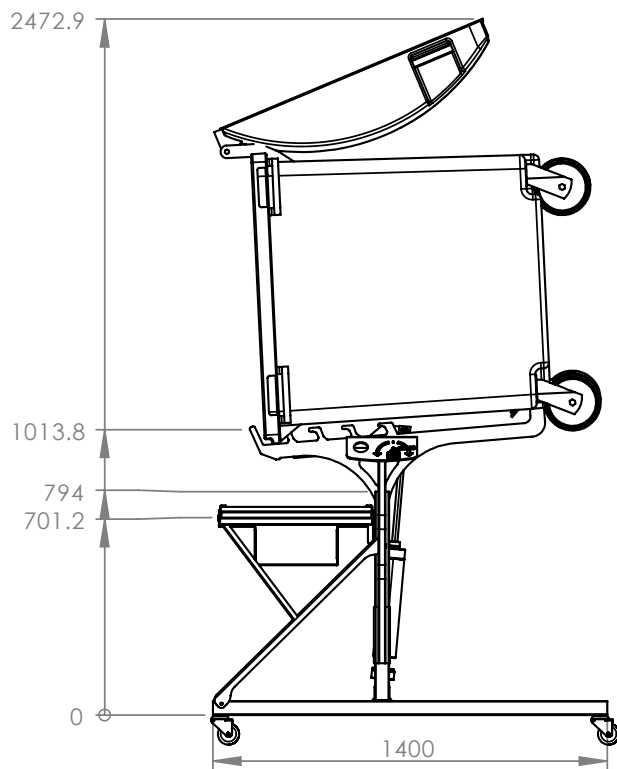
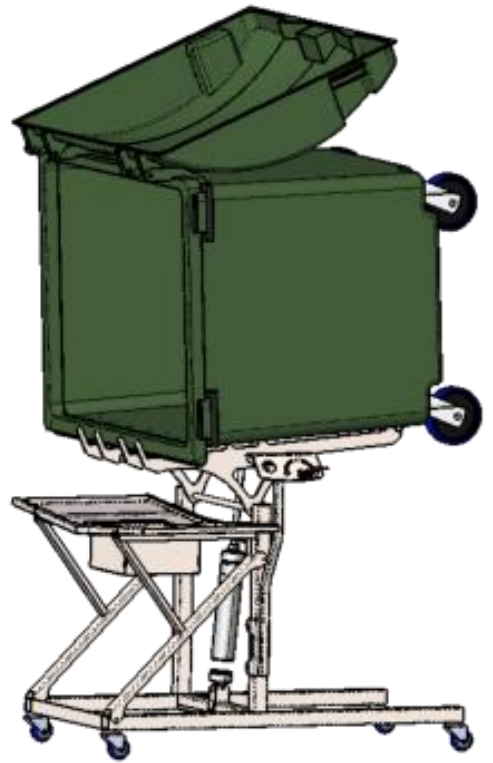
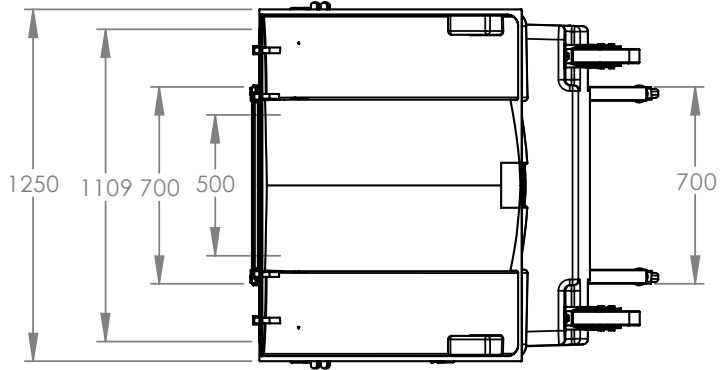
1 metre (m) = 1000 millimetres (mm) = 39.37 inches (in) = 3.28 feet (ft) = 1.09 yards (yd)

The following textual conventions are used throughout this document:

 Text in GREEN indicates a point of interest.

 Text in RED indicates a point of warning, or a safety hazard.

Any errors in this document should be reported by email to [info@simpro.world](mailto:info@simpro.world)



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## 2 Introduction

Congratulations on your purchase of a BinBlaster wheelie bin washing frame from Simpro. The BinBlaster uses the pressure of the water supply to lift and invert bins at an ergonomic height for fast cleaning. It is designed to be safe, easy to use, reliable and extremely robust.

### 2.1 Key features

Key features of the BinBlaster include:

1. An innovative water-pressure powered mechanism which allows the machine to operate without electricity.
2. A new 'antler' bin hitch which allows the cleaning of all EN840-compliant wheelie bins, from 80 litres right up to 1100 litres, without clamping or retaining.
3. An extremely reliable, maintenance-free mechanism.
4. Full 304-grade stainless steel construction for corrosion protection and durability.
5. A collapsible design to allow cost-effective shipping.

### 2.2 Construction

The BinBlaster machine consists of a 304-grade stainless steel frame, bin-hitch and axle, with a water-operated hydraulic ram, a master control valve and hose connection points.

Some versions may also include a plastic water-collection container, filter and electric pressure washer, as part of the optional water-recirculation kit.

### 2.3 Mechanism

When the master control valve is opened, water is directed into the two hydraulic rams, causing the bin hitch to pivot on its axle. This rotates the bin into a lateral position above the wastewater container, where it can be easily cleaned. Turning the master control valve in the other direction releases the water from the hydraulic rams, allowing gravity to gently return the bin to ground level.

### 2.4 Assembly

The BinBlaster is normally delivered fully assembled.

### 2.5 Environmental restrictions

The BinBlaster may be used indoors or outdoors. However, some restrictions apply:

1. A minimum floor area of two square metres;
2. Ambient temperature not higher than +40°C and not lower than 0°C;
3. At ambient temperatures above 35°C, the relative humidity should not exceed 50%; at lower temperatures, higher relative humidity is permitted;
4. Do not use in flammable, explosive, corrosive, acidic or alkaline environments.

## 2.6 Intended operational life

The intended operational life of the BinBlaster is as follows:

Average Gross Bin Weight	Intended operational life
< 75kg	200,000 cycles

## 2.7 Notes

- ⚠ This user manual describes approved procedures for the operation, maintenance, and routine inspection of the BinBlaster bin-cleaning machine.
- ⚠ All operators must carefully read and understand this manual before using the machine.
- ⚠ The user manual shall be kept by the operator, and shall be read by the operator until the operator is proficient with all aspects of standard use.
- ⚠ If the machine is to be leased, then the user manual shall accompany the machine.
- ⚠ This is a common manual. We reserve the right to modify the design of the machine. If there is anything in the manual that is not consistent with the actual machine, the actual machine should be considered correct and the manual is only for reference.
- ⚠ Any errors in this document should be reported by email to [info@simpro.world](mailto:info@simpro.world).
- ⚠ Please contact your authorized Simpro agent if you encounter any problems.

## 3 Safety

The BinBlaster has been designed to be as safe as possible without restricting the ease-of-use and versatility of the machine.

 A comprehensive Hazard and Risk Assessment must be undertaken before the BinBlaster is used for the first time, as described in [Section 3.3](#).

### 3.1 Safety features

The safety features of the BinBlaster are as follows:

1. A low-power lifting system driven only by water pressure.
2. A tipping action which keep the weight of the bin within the machine footprint.
3. No electric or electronic systems, to minimise the risk of electric shock.

### 3.2 Reasonably foreseeable misuse

The reasonably foreseeable misuse considered in the BinBlaster design is as follows:

1. Use of the machine by untrained operators;
2. Lifting bins that the bin-hitch is not specifically designed to hold;
3. Personnel accessing areas beneath the bin-hitch while a bin is in the raised position;
4. Attempts to clean the machine without following proper procedures.

### 3.3 Hazard and Risk Assessment guide

Machinery owners are required by law to conduct a comprehensive Hazard and Risk Assessment for their equipment, considering all relevant factors such as the area it is used, the skill and training of operators, the proximity of other persons, frequency of use, etc.

The following section is not intended to be a comprehensive Hazard and Risk Assessment, but an analysis of the most common risk factors associated with the BinBlaster bin tipper.

As with all powered industrial equipment, some hazards remain, and it is essential that all operators are aware of these hazards and what they must do to prevent harm to themselves or to others, as described in [Section 3.3.4](#).



### 3.3.1 Risk Factor Calculation

As defined in safety standards, the 'Risk Factor' associated with any given hazard may be calculated from the following table, using the formula:

$$\text{Risk Factor} = \text{LO} \times \text{FE} \times \text{DPH} \times \text{NP}$$

LO	Likelihood of Occurrence	FE	Frequency of Exposure	DPH	Degree of Possible Harm	NP	Number of Persons at risk
0.1	Impossible, or possible only in extreme circumstances	0.1	Infrequently	0.1	Scratch or bruise	1	1 – 2 persons
0.5	Highly unlikely though conceivable	0.2	Annually	0.5	Laceration, mild ill-health	2	3 – 7 persons
1	Unlikely but could occur	1	Monthly	1	Break minor bone or illness (temporary)	4	8 – 15 persons
2	Possible but unusual	1.5	Weekly	2	Break major bone or illness (permanent)	8	16 – 50 persons
5	Even chance – could happen	2.5	Daily	4	Loss of 1 limb or eye/serious illness (temporary)	12	51 or more persons
8	Probable – not surprised	4	Hourly	8	Loss of 2 limbs or eyes/serious illness (permanent)		
10	Likely, only to be expected	5	Constantly	15	Fatality		
15	Certain, no doubt						

### 3.3.2 Risk Factor Evaluation

Once a Risk Factor has been calculated, it may be evaluated using the following table.

Risk Factor	0-1	2-5	6-10	11-50	51-100	101-500	501-1000	1001 +
Evaluation	Negligible	Very Low	Low	Significant	High	Very high	Extreme	Unacceptable

### 3.3.3 Identified Hazards

The following common hazards have been identified with the BinBlaster bin-tipper design. For each hazard, a full Risk Factor analysis has been completed, and suitable control measures described.

**⚠ Note that other hazards may be present, depending on the circumstances in which the BinBlaster is being used. It is the responsibility of the machine owner to identify, evaluate and mitigate such hazards.**

<b>Entanglement or amputation of fingers or limbs in moving parts</b>										
Operator	LO:	1	FE:	4	DPH:	1	NP:	1	Risk Factor:	4
	Operators are required to control the machine from a position adjacent to the moving bin hitch, and could place a hand or foot in a position where it would be entangled in the mechanism.									
Other persons	LO:	1	FE:	4	DPH:	1	NP:	1	Risk Factor:	4
	Operators have an unobstructed view of the bin-hitch while lifting and lowering, and can stop all movement by releasing the master control valve if any other persons approach the bin-hitch while moving.									
Control measures	The BinBlaster is designed so trapping hazards are minimized, and is operated by a low-power hydraulic ram, driven by mains water pressure. This means the mechanical forces involved are small, limiting the potential harm to operators.									
Comments	Operators are responsible to obey all warning signs and instructions regarding keeping themselves and others clear of all moving parts.									
<b>Crushing due to unauthorized rapid descent of bin-hitch</b>										
Operator	LO:	0.5	FE:	4	DPH:	1	NP:	1	Risk Factor:	2
	There is nothing to stop an operator or other person moving under the bin-hitch while it is inverted. Significant safety margins ensure that the probability of failure of any steel, hydraulic, or control parts failing is very low.									
Other persons	LO:	0.5	FE:	2.5	DPH:	1	NP:	1	Risk Factor:	1.25
	As above.									
Control measures	Operators are responsible to obey warning signs and instructions regarding keeping themselves and others away from the area around and beneath the bin-hitch when raised.									
Comments	The machine must be regularly maintained, and all faults repaired immediately.									
<b>Crushing due to machine falling over</b>										
Operator	LO:	0.1	FE:	4	DPH:	2	NP:	1	Risk Factor:	0.8
	Minimal risk as the machine is very stable.									
Other persons	LO:	0.1	FE:	2.5	DPH:	2	NP:	1	Risk Factor:	0.5
	As above.									
Control measures	The BinBlaster is designed with a very large, stable footprint to minimise the risk of falling over.									
<b>Electrocution or electric shock</b>										
Operator	LO:	1	FE:	1	DPH:	15	NP:	1	Risk Factor:	60
	Low risk as the BinBlaster has no electric power supply.									
Other persons	LO:	1	FE:	1	DPH:	15	NP:	1	Risk Factor:	37.5
	As above.									

Control measures	The BinBlaster is powered by mains water pressure rather than electricity, so as to minimise the risk of electric shock.									
Comments	If used with an electric pressure washer, the washer manufacturer is responsible to ensure the safety of their equipment in proximity to water.									
<b>Contamination with residual materials from bins</b>										
Operator	LO:	1	FE:	4	DPH:	1	NP:	1	Risk Factor:	4
	When using the BinBlaster, the operator may be exposed to residual materials from the bin being cleaned.									
Other persons	LO:	1	FE:	4	DPH:	1	NP:	1	Risk Factor:	4
	As above.									
Control measures	When cleaning bins that have been used to store materials that are potentially harmful to health, the operator must wear appropriate Personal Protective Equipment (PPE), and ensure that any personnel not wearing PPE are clear of the area.									
Comments	Bins that have been used to store toxic substances should not be cleaned with a machine such as the BinBlaster. Alternative methods should be used.									
<b>APPLICATION-SPECIFIC HAZARD:</b>										
Operator	LO:		FE:		DPH:		NP:		Risk Factor:	
Other persons	LO:		FE:		DPH:		NP:		Risk Factor:	
Control measures										
Comments										
<b>APPLICATION-SPECIFIC HAZARD:</b>										
Operator	LO:		FE:		DPH:		NP:		Risk Factor:	
Other persons	LO:		FE:		DPH:		NP:		Risk Factor:	
Control measures										
Comments										

### 3.3.4 Residual Hazards

Some hazards may be present despite any safety measures implemented by the manufacturer.

It is the responsibility of the owner and the operators to identify and evaluate any such hazards, and to put in place procedures to ensure the safety of all persons near the machine. These steps may include any or all of the following:

- ⚠ Training of operators.
- ⚠ Testing and recording that operators are properly trained.
- ⚠ Implementing Standard Operating Procedures and ensuring they are followed.
- ⚠ Posting additional signage, floor marking, or other warnings as deemed appropriate.

### 3.4 Recommended Precautions

The following precautions must be taken for the safe use of a BinBlaster bin tipper.

Only trained and authorised operators should be permitted to use the machine.

Operators must read and obey all instructions in this manual and displayed on the machine.

Never operate machine on ground with a slope ratio greater than 1:12.

Never operate machine with covers, guards or other components removed.

All persons other than the operator must keep at least 3 metres clear while the machine is in use.


Never access areas behind or beneath the bin-hitch while in the raised position. Bins that are improperly secured may come loose and fall at any time.

Always keep feet and hands well clear of the bin and bin-hitch while operating.

## 4 Operating Instructions

### 4.1 Before operation


1. Place the machine on a suitable flat, level surface, with a slope of 1:12 or less.
2. Connect a water supply hose to one of the couplers under the master control valve, and ensure that the tap by the coupler is turned to the 'On' position.
3. If you wish to supply mains water to the pressure washer, connect another short hose from the other coupler to the input side of the pressure washer, and ensure the tap by the second coupler is also 'On'.

 Alternatively, the pressure washer can be supplied from the wastewater bin, but the hose must be fitted with a suitable filter. If the second coupler is not used to supply the pressure washer, turn this tap to 'Off'.

4. Ensure the master control valve is set to the 'Off' position, then turn the main tap on to supply water to the machine.
5. Connect the pressure washer to the power supply (if using an electric machine), or start the motor (if ICE-powered).

### 4.2 Operation

1. With the bin-hitch lowered, wheel a bin up and hook the bin combing onto the antler hitch frame. The BinBlaster can hold one EN840-compliant wheelie bin at a time.

 Some sizes of wheelie bin may need to be pushed or lifted slightly for the combing to hook properly onto the antler hitch.

2. Open the lid of the bin.
3. Turn the control valve to the left to lift and tilt the bin.
4. Using the supplied hose (or a pressure washer), clean the bin both inside and out.
5. Turn the control lever to the right to lower the bin back to ground level.
6. Remove the bin, and repeat from step 1 as required.

 Turn the control valve to the 'Off' position to stop the machine at any time.



# 5 Maintenance Procedures

The BinBlaster is designed to give many years of service with minimal maintenance. In the event a fault or malfunction does occur, refer to the [Quick Trouble Shooting Guide in Section 5.1](#) before contacting your agent for service.

- ⚠ Contact your Simpro agent if repair or service work is required.
- ⚠ All repair and service work must be carried out by qualified authorized personnel.
- ⚠ Replacement parts must be supplied by Simpro or an authorized Simpro agent, and must be of the same design and specification as the original parts.

## 5.1 Quick Troubleshooting Guide

Refer to the Quick Troubleshooting Guide below before contacting your agent for service.

Problem	Possible Causes	Remedy
BinBlaster will not lift bins	Bin too heavy	Manually remove excess materials from the bin that is to be cleaned
	Water pressure too low	The BinBlaster is designed to be used with moderate water pressure. The bin can be manually lifted to assist the machine if the water pressure is too low.
BinBlaster will not lower bins from the raised position	Bin(s) too light	The bins are lowered by gravity alone, so very light bins may stick in the raised position. Turn the control valve to the right (the 'lower' position) and apply downwards pressure to the bin to lower it manually.
BinBlaster jams partway through the cycle	Axle jamming	Lubricate the bin-hitch axle.
	Lift ram jamming	Contact your agent.
	Faulty master control valve	Contact your agent.

## 5.2 Cleaning

The BinBlaster may be cleaned with a pressure washer, a cloth and a mild cleaning solution. Cleaning should be done with the bin-hitch in the lowered position.

### 5.2.1 Ingress protection

Item	Ingress Protection
Overall	IP66

## 6 Handling, transportation and storage

### 6.1 Moving

If the BinBlaster is fitted with castor wheels, it can be easily moved by hand. If the machine does not have wheels, it can be moved using a hand trolley or pallet truck.

 Extra care should be taken when moving the BinBlaster on sloping ground.

### 6.2 Lifting

Carry out the following procedure when lifting, loading or unloading the BinBlaster:

1. Confirm the weight of the machine and ensure the lifting equipment that is to be used has sufficient capacity.
2. Affix the lifting sling or chains around the bin-hitch axle.
3. Use one person to operate the lifting equipment, and at least one other person to hold the machine steady and watch for obstructions.
4. Slowly lift, move and lower the machine into place, ensuring it remains fully upright at all times.

 Standard machines weigh between 100 and 200kg.

 Never stand or reach underneath the machine while it is being lifted.

### 6.3 Transportation

Carry out the following procedure when preparing the BinBlaster for transport:

1. If the machine has castor wheels, apply both footbrakes.
2. Tie the machine into place with straps rated for at least 1000kg.

 Ensure the machine is securely fastened against lateral forces from any direction.

### 6.4 Storage

If the machine is not to be used for a period of two months or more, it should be stored in a clean, dry place with good ventilation, at temperatures not below 0°C. Before placing the machine into storage, carry out the following procedures:

1. Clean the machine thoroughly.
2. Carry out several full tipping cycles, then lower the bin-hitch to the ground.
3. Turn off and disconnect the water supply.
4. Lightly grease the bin-hitch axle.

# 7 Warranty

## 7.1 Definitions:

1. "Simpro" means Simpro Handling Equipment Limited, [New Zealand Registered Company No. 1827916.](#)
2. "Agent" means a person or company authorized by Simpro to sell a Product.
3. "Service Agent" means a person or company authorized by Simpro to repair a Product.
4. "End User" means the first purchaser of a Product from a Sales Agent authorised by Simpro to sell the Product.
5. "Warranty" means the commitment that Simpro has to guarantee the workmanship and componentry to any End User of Products manufactured and sold by Simpro.
6. "Warranty Claim" means an application from an Agent to Simpro to be reimbursed for expenses relating to repairs done to remedy a fault with a Simpro Product.
7. "Warranty Period" means the length of time that Simpro undertakes to guarantee a Product.
8. "Back to Base" means that the costs associated with the transporting of a Product between the Service Agent and the End User is the End Users responsibility.
9. "Standard Products" means any Product displayed as a standard product on the Simpro website, [https://simpro.world/.](https://simpro.world/)
10. "Part" and "Parts" refer to components of a Product.
11. "Minor Fault" means a fault or defect that requires less than one hour to rectify
12. "Instruction Handbook" means a document so titled that provides brief information and guidance on the operation of the Product for commonly performed functions.
13. "Service Manual" means a document so titled that provides comprehensive information and guidance for service, repairs and maintenance.
14. "Warranty Registration Process" means the process of an End User registering their product with Simpro. This may be done using the web form here: <https://simpro.world/support/warranty-registration>
15. "Application for Warranty Consideration Form" means the system used to file a Warranty Claim with Simpro. This may be done using the web form here: [https://simpro.world/support/warranty-claim.](https://simpro.world/support/warranty-claim)

## 7.2 Coverage

1. Simpro provides a 12 month Back to Base Warranty on all Standard Products unless alternative terms have been agreed to in writing.
2. The Warranty terms and conditions on custom-built and non-standard machines are generally specified on quotations, and placing an order implies acceptance of the Warranty terms. If no specific Warranty details have been provided, the standard terms and conditions will apply.
3. The 12-month Warranty period shall be taken from the date the machine first leaves the Agent's premises, whether sold or just supplied for trial. The Agent shall keep accurate records of the date of all machine trials, sales, etc.
4. Simpro will, at its option, repair or replace any items that fail or prove defective within the Warranty period.
5. Simpro's liability under the terms of this Warranty shall be limited to remedying any fault that occurs on machines it has manufactured or supplied, and shall not cover any consequential loss or damage.
6. The Warranty on batteries is for 6 months only. Information on maximising the life of your batteries may be viewed here: <https://simpro.world/connect/blog/deep-cycle-batteries-watts-it-all-about>

## 7.3 Exclusions

1. Simpro will not recognise a Warranty Claim against a machine where payment to Simpro for that machine is outstanding. If a Warranty Claim is made before payment is due, the full payment must be made on the due date. The Warranty Claim, if accepted, will be credited at a later date.
2. Warranty Claims may not be recognized unless the [Warranty Registration Process](#) has been completed. If not done at the time of sale, this should be done at the time of the Warranty Claim. If warranty registration has not been completed, proof of purchase may be required.



3. Damage caused or contributed to by misuse, abuse, accident, unauthorised repairs or modifications, or failure to use the machine in accordance with instructions is specifically excluded.
4. Travelling time and mileage are specifically excluded from the Simpro warranty coverage. However under certain circumstances Simpro at its discretion may contribute to these costs. Authorisation must be obtained from Simpro prior to any such Warranty Claim. This does not prohibit an Agent offering more extensive Warranty cover, outside of this Warranty, as negotiated between the Agent and the End User.

## 7.4 End User Claim Procedure

1. Where a fault or breakdown appears to have occurred the End User should, if applicable, first consult the Quick Troubleshooting Guide section of the User Manual provided with each machine, to ascertain the cause of the fault and remedy if possible. This information may also be accessed on the Simpro Support website: <http://support.simpro.world>.
2. If the fault is not able to be remedied, the End User should contact the Agent who sold the machine, and explain as fully as possible the fault, including all relevant factors such as:-
  1. Did the fault occur suddenly or has it been giving trouble over some time?
  2. Was the machine being used at the time?
  3. Is the fault intermittent?
  4. Are the batteries fully charged?
  5. If repair is urgent, and the Agent cannot be contacted, the End User may contact Simpro direct.

## 7.5 Agent Claim Handling Procedure

1. Upon receiving notification of a fault, the Service Agent should attempt to determine the cause and a course of action before going to see the machine.
  2. The Service Agent should contact Simpro for assistance in identifying the fault, if it is not apparent. This step is important, so that if a site visit is necessary, the correct tools and spare Parts can be taken. It is also important to establish whether there may have been any negligence, misuse or an accident that contributed to or caused the fault.
  3. Parts requiring replacement will be supplied by Simpro free of charge; in some cases, it may be necessary to source Parts locally if needed urgently, but Simpro must authorize this if the cost of the item exceeds \$50.00 and is to be charged to Simpro.
  4. If the fault is not a Minor Fault, the Agent must notify Simpro and receive authorization to proceed before the repair work is done. Simpro will assist in every way possible, including discussing the problem directly with the End User if necessary to determine the best method of effecting the repair, in the shortest time possible.
  5. Upon completion of the repair to an acceptable standard, the Agent shall complete the [Application For Warranty Consideration Form](#) and include copies of any invoices for labour, and any Parts supplied.
  6. The cost of Warranty repairs is not to be deducted from any payments due to Simpro, unless Simpro issues a credit note clearly stating the amount and which invoice it relates to.
  7. Simpro undertakes to be reasonable in respect of all Warranty repairs undertaken by Agents, but reserves the right to decline payment for:-
    1. Work done or materials replaced that were not authorized in advance by Simpro.
    2. Work not done to an acceptable standard.
    3. Work taking an unduly long time, due (in part or in full) to the lack of knowledge or skill of the serviceman or the Agent. The time allowed for repair work will be based on Simpro's assessment of what a reasonably skilled tradesman would take. Full Service Manuals are available on request at any time from Simpro and all service visits should be conducted with a Service Manual at hand.
5. dealer who supplied the machine. No claims will be recognised unless authorisation is obtained from the manufacturer before any repairs are done.

This warranty shall be interpreted according to the laws of New Zealand and the parties agree to submit to the jurisdiction of the Courts of New Zealand.

# 8 Scheduled Inspections

It is recommended to conduct regular scheduled inspections of the BinBlaster. This helps to ensure operator safety and extend the service life of the machine.

- ⚠ It is strongly recommended that that regular scheduled inspections be carried and recorded as described in this section.
- ⚠ Operators should immediately stop using the machine and request an inspection if any fault or abnormal operation is observed.

## 8.1 Preinspection checklist

1. Wear suitable Personal Protective Equipment (PPE).
2. Lower the bin-hitch and remove the bin(s).
3. Disconnect electricity from nearby powered equipment, such as the pressure washer.
4. Turn off the water supply to the BinBlaster and the pressure washer.

## 8.2 Monthly inspection

The following inspection should be carried out monthly, and the results recorded in the log opposite.

Monthly Inspection Checklist			
Category	No.	Item	Check
General	1	Entire machine	Conduct a complete lifting and lowering cycle and check for any faults or abnormal behaviour.
Hydraulic systems	2	Hydraulic rams	Check there are no obvious water leaks.
	3	Hose connections	Check there are no loose connections or obvious water leaks.
Mechanical systems	4	Bin-hitch axle	Lightly lubricate with grease.
	5	Castor wheels (if fitted)	Check that the castor wheels are running smoothly and the brakes working correctly.





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