Bäumr-AG®



BPR-2000E Wheelbarrow Dumper

User Manual

[Revision 1.0]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description, and packaging.

THE BATTERY MAY HAVE SOME CHARGE ON ARRIVAL, IT IS IMPORTANT HOWEVER THAT THE BATTERY IS CHARGED PRIOR TO USE.

Safety

Safety messages are designed to alert you to possible dangers or hazards that could cause death, injury or equipment or property damage if not understood or followed. Safety messages have the following symbols:



You WILL be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be KILLED or SERIOUSLY INJURED if you do not follow instructions.



You CAN be INJURED if you do not follow instructions or equipment damage may occur.

It is vital that you read and understand this user manual before using the product, including safety warnings, and any assembly and operating instructions. Keep the manual for future reference.

Safety precautions and recommendations detailed here must be fully understood and followed to reduce the risk of injury, fire, explosion, electrical hazard, and/or property damage.

Safety information presented here is generic in nature – some advice may not be applicable to every product. The term "equipment" refers to the product, be it electrical mains powered, battery powered or combustion engine powered.

- **Before Use** - If you are not familiar with the safe operation/handling of the equipment or are in any way unsure of any aspect of suitability or correct use for your application, you should complete training conducted by a person or organization qualified in safe use and operation of this equipment, including fuel/electrical handling and safety.
- Do NOT operate the equipment in flammable or explosive environments, such as in the presence of flammable liquids, gases, or dust. The equipment may create sparks or heat that may ignite flammable substances.
- Keep clear of moving parts.
- Equipment may be a potential source of electric shock or injury if misused.
- Do NOT operate the equipment if it is damaged, malfunctioning or is in an excessively worn state.
- Do NOT allow others to use the equipment unless they have read this manual and are adequately trained.
- Keep packaging away from children - risk of suffocation! Operators must use the equipment correctly. When using the equipment, consider conditions and pay due care to persons and property.

General Work Area Safety

- Work areas should be clean and well it.
- Do not operate the equipment if bystanders, animals etc are within operating range of the equipment or the general work area.
- If devices are provided for connecting dust extraction / collection facilities, ensure these are connected and used properly. Dust collection can reduce dust-related hazards.

General Personal Safety

- Wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect from eye and ear injury, poisoning, burns, cutting and crush injuries. Protective equipment such as safety goggles, respirators, non-slip safety footwear, hard hat, hearing protection etc should be used for appropriate equipment / conditions. Other people nearby should also wear appropriate personal protective equipment. Do not wear loose clothing or jewellery, which can be caught in moving parts. Keep hair and clothing away from the equipment.
- Stay alert and use common sense when operating the equipment. Do not over-reach. Always maintain secure footing and balance.
- Do not use the equipment if tired or under the influence of drugs, alcohol, or medication.
- This equipment is not intended for use by persons with reduced physical, sensory, or mental capabilities.

General Fuel Safety

- Petrol/fuel/gasoline is extremely flammable – keep clear of naked flames or other ignition sources.
- Do not spill fuel. If you spill fuel, wipe it off the equipment immediately – if fuel gets on your clothing, change clothing.
- Do NOT smoke near fuel or when refuelling.
- Always shut off the engine before refuelling.
- Do NOT refuel a hot engine.
- Open the fuel cap carefully to allow any pressure build-up in the tank to release slowly.
- Always refuel in well-ventilated areas.
- Always check for fuel leakage. If fuel leakage is found, do not start, or run the engine until all leaks are fixed.

General Carbon-Monoxide Safety

- Using a combustion engine indoors **CAN KILL IN MINUTES**. Engine exhaust contains carbon-monoxide – a poison you cannot smell or see.
- Use combustion engines OUTSIDE only, and far away from windows, doors, and vents.

General Equipment Use and Care

- Keep packaging away from children and pets, potential risk of suffocation or choking.
- The equipment is designed for domestic use only.
- Handle the equipment safely and carefully.
- Before use, inspect the equipment for misalignment or binding of moving parts, loose components, damage, or any other condition that may affect its operation. If damaged, have the equipment repaired by an authorised service centre or technician before use.
- Prevent unintentional starting of the equipment - ensure equipment and power switches are in the OFF position before connecting or moving equipment. Do not carry equipment with hands or fingers touching any controls. Remove any tools or other items that are not a part of the equipment from it before starting or switching on.
- Do not force the equipment. Use the correct equipment for your application. Equipment will perform better and be safer when used within its design and usage parameters.
- Use the equipment and accessories etc. in accordance with these instructions, considering working conditions and the work to be performed. Using the equipment for operations different from those intended could result in hazardous situations.
- Always keep equipment components (engines, hoses, handles, controls, frames, housings, guards etc) and accessories (cutting tools, nozzles, bits etc) properly maintained. Keep the equipment clean and, where applicable, properly lubricated.
- Store the equipment out of reach of children or untrained persons. To avoid burns or fire hazards, let the equipment cool completely before transporting or storing. Never place or store the equipment near flammable materials, combustible gases, or liquids etc.
- The equipment is not weather-proof, and should not be stored in direct sunlight, at high ambient temperatures or locations that are damp or humid.
- Do not clean equipment with solvents, flammable liquids, or harsh abrasives.
- For specific equipment safety use and care, see Equipment Safety.

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General Electrical Safety

- Inspect electrical equipment, extension cords, power bars, and electrical fittings for damage or wear before each use. Repair or replace damaged equipment immediately.
- Ensure all power sources conform to equipment voltage requirements and are disconnected before connecting or disconnecting equipment.
- When wiring electrically powered equipment, follow all electrical and safety codes.
- Always use a Residual Current Device (RCD) (GFCI) / Earth Leakage Circuit Breaker / Safety Switch when operating this item (electrical items only).
- High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.

General Electrical Safety

- Electrically grounded equipment must have an approved cord and plug and be connected to a grounded electrical outlet.
- Do NOT bypass the ON/OFF switch and operate equipment by connecting and disconnecting the electrical cord.
- Do NOT use equipment that has exposed wiring, damaged switches, covers or guards.
- Do NOT use electrical equipment in wet conditions or in damp locations.
- Do NOT use electrical cords to lift, move or carry equipment.
- Do NOT coil or knot electrical cords, and ensure electrical cords are not trip hazards.

General Service Information

- The equipment must be serviced or repaired at authorised service centres by qualified personnel only.
- Replacement parts must be original equipment manufacturer (OEM) to ensure equipment safety is maintained.
- Do NOT attempt any maintenance or repair work not described in this manual.
- After use, the equipment and components may still be hot – allow the equipment to cool and disconnect spark plugs and/or electrical power sources and/or batteries from it before adjusting, changing accessories, or performing repair or maintenance.
- Do NOT adjust while the equipment is running.
- Perform service-related activities in suitable conditions, such as a workshop.
- Replace worn, damaged or missing warning/safety labels immediately.

Child Choking Hazard!



- **WARNING: CHOKING HAZARD - CHILDREN UNDER 8 YRS. CAN CHOKE OR SUFFOCATE ON SMALL PARTS. ADULT SUPERVISION REQUIRED.**
- Carefully inspect anything a baby or child could gain access to, including this product & packaging.
- Dangers include anything of a size that could become stuck or lodged in a baby or child's airway.
- Dangers include things like raw, hard fruit and vegetable pieces, large pieces of meat, bones or sausage skins, popcorn, nuts, hard lollies and corn chips, small magnets and batteries, coins, beads, marbles and small uninflated balloons, broken toys and smaller toys, buttons, keys, and coins. But there are also many more.
- Pay particular attention to accessories, nuts, bolts, screws, washers, caps, covers, loose parts, parts that could be removed or break off, pieces of packaging, staples, tape etc.
- In the case of any doubt, secure the item of concern in an appropriate manner, or completely remove the possibility of access by a baby or child.

Introduction

- ⚠ Important: Carefully read this entire operator's manual before using the machine. Pay close attention to all warnings and safety instructions.
- Recycle unwanted materials instead of disposing of them as general waste. Tools, hoses and packaging should be taken to an appropriate recycling facility and disposed of in an environmentally responsible manner.

Understand Your Machine

- Read and understand this operator's manual and all labels attached to the machine. Learn its applications, limitations and the specific hazards associated with its operation.
- Read all safety warnings, instructions, illustrations and specifications provided with this dumper. Failure to follow the instructions may result in electric shock, fire and/or serious injury.
- Keep this manual for future reference.

Work Area

- Keep the work area clean and well lit. Cluttered or dark areas can cause accidents.
- Keep children and bystanders away while operating the machine. Distractions can cause you to lose control.

Personal Safety

- Stay alert, watch what you are doing and use common sense when operating the dumper. Do not operate the machine while tired or under the influence of drugs, alcohol or medication. A moment of inattention may result in serious personal injury.
- Use appropriate personal protective equipment (PPE). Always wear eye protection. Equipment such as a dust mask, non-slip safety footwear, hard hat or hearing protection should be used where required.
- Prevent unintentional starting. Ensure the switch is in the OFF position before connecting the battery pack.
- Remove any adjusting keys or spanners before turning the dumper on. A key or spanner left attached to a rotating part may cause personal injury.
- Do not overreach. Keep proper footing and balance at all times.
- Dress appropriately. Do not wear loose clothing or jewellery. Keep hair and clothing away from moving parts.
- Do not become complacent through frequent use of the machine. A careless action can cause serious injury within seconds.
- Do not operate the dumper in the rain. Wet conditions may cause loss of control, slipping or falling, increasing the risk of injury.

Battery Tool Use and Care

- Recharge only with the charger specified by the manufacturer. A charger suitable for one type of battery pack may create a fire risk if used with another battery pack.
- Use the dumper only with the specified battery packs. Use of other battery packs may create a risk of injury or fire.
- When the battery pack is not in use, keep it away from metal objects such as paper clips, coins, keys, nails or screws. These items can connect the battery terminals and cause burns or fire.
- Under abusive conditions, liquid may be ejected from the battery. Avoid contact. If contact occurs, rinse with water. If the liquid contacts eyes, seek medical attention immediately.
- Do not use a battery pack or machine that is damaged or modified. Damaged batteries may behave unpredictably and cause fire, explosion or injury.
- Do not expose the battery pack or machine to fire or excessive temperatures. Exposure to temperatures above 130 °C may cause an explosion.
- Follow all charging instructions. Do not charge the battery outside the specified temperature range. Incorrect charging may damage the battery and increase the risk of fire.

Specific Safety Rules

- Thoroughly inspect the work area before operation. Keep the area clean and free of debris to prevent tripping hazards. Operate only on flat, level ground.
- Never place any part of your body where it could be injured during assembly, installation, operation, maintenance, repair or movement of the machine.
- Keep all bystanders, children and pets at least 23 m away from the work area. Stop the machine immediately if anyone approaches.
- Never sit, stand or ride on the dump box. Do not carry passengers.
- Never park the machine on unstable ground, especially when it is loaded.
- Always operate the machine with both hands on the handlebars. Maintain a firm grip at all times.
- Be aware that the machine may suddenly bounce or move forward if it strikes hidden obstacles such as large stones.
- Walk when operating the machine. Do not run.
- Do not exceed the machine’s rated load capacity. Operate at a safe speed appropriate for the terrain, surface conditions and load weight.
- Use extreme caution when reversing or pulling the machine towards you.
- Use extreme caution when crossing gravel drives, paths or roads. Watch for hidden hazards or traffic.
- On soft ground, operate in the lowest gear. Avoid rapid acceleration, sharp turns or sudden stops.
- Use extra care when operating on frozen ground, as the machine may skid.
- Avoid operating on rocky riverbeds, crushed stone, steel or concrete debris, stumps or logs, as this may cause severe damage to the tracks and reduce machine lifespan.
- Do not operate the machine in confined areas where there is a risk of crushing the operator between the machine and another object.
- Do not operate the machine on slopes greater than 20°.
- When travelling on slopes, ensure the load is evenly balanced. Move parallel to the slope (up or down) rather than across it.
- Do not change gears while operating on a slope.
- When tipping a load, the centre of gravity of the machine changes continuously. Ground conditions are critical to maintaining stability. Extra caution is required on soft ground or when materials such as wet clay stick to the dump body.

Safety Symbols

The product may have safety warning labels attached to it, explained below. Understand the symbols on your product and their meanings. If any stickers become unreadable, unattached etc., replace them.



Flammable Material Hazard
Flammable liquids, gases, or substances etc may present. Avoid ignition sources and open flames. Danger of fire.



Read User Manual
Read and fully understand product safety warnings, operation, procedures etc before using the product.



Use Hand Protection
Wear appropriate hand protection and take due care as the product or use of the product may present hand hazards.



Carbon-Monoxide Hazard
Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.



Electrocution / Electrical Shock Hazard
High voltage or high current electricity may be present or required by the product. Take due care when handling electrical products, cables, plugs and leads. Electrical shock can be fatal.



Toxic Fumes / Dust Hazard
Using the product or by-products from use may produce fumes, smoke or particles that could be harmful if inhaled. Wear appropriate breathing protection and have adequate ventilation.



Explosive Material Hazard
Combustible liquids, gases, or substances etc may be present. Avoid ignition sources and open flames. Danger of explosion.



Cutting / Amputation Hazard
The product may have blades, edges or mechanical devices that can cause severe cut injury to fingers, limbs etc. Take due care when handling and using the product.



Crush Hazard
The product may have blades, edges or mechanical devices that can cause severe crush injury to fingers, limbs etc. Take due care when handling and using the product.



Single Operator Only
The product must be operated by a single person only. More than one person operating the product may introduce additional hazards.



Use Face Protection
Wear appropriate full-face protection and take due care as the product or use of the product may present face and eye hazards.



Use Foot Protection
Wear appropriate foot protection and take due care as the product or use of the product may present foot hazards.



Use Eye / Ear / Head Protection
Wear appropriate eye and / or ear and / or head protection and take due care as the product or use of the product may present eye, hearing, and head hazards.



Running Hazard
Do not run on or near the product as doing so may present a fall hazard.



Diving Hazard
Do not dive into the product as doing so may present a neck / head injury hazard.



Adult Supervision Required
Always supervise children and other users of a product to prevent drowning or injury.



Skin Penetration / Puncture Hazard
The product may produce pressure, emit liquids or objects that can cause severe injury to fingers, limbs, blood etc. Take due care when handling and using the product.



Hot Surface Hazard
Be aware that the product may produce high temperatures and hot surfaces that can cause burn injuries.



Flying Debris Hazard
Be aware that the product or use of the product may present hazards produced by flying debris. Wear appropriate clothing and protective devices.



Moving Parts Hazard
Be aware that the product contains or uses mechanical devices that move or rotate. Always wait for moving parts to stop fully before handling the product, adjusting, maintenance etc.

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 **Carbon-Monoxide Hazard** Do not use the product in confined areas or without adequate ventilation. Carbon-monoxide poisoning can be fatal.	 **Pull Hazard** Be aware that the product contains or uses mechanical devices that can pull in objects and can cause severe injury to fingers, limbs etc. Take due care when handling and using the product.	 **Slope / Fall Injury Hazard** Be aware that using the product on sloping surfaces or in slippery conditions may present additional dangers from falls and contact with blades, moving parts, hot surfaces etc.	 **"Slam Dunk" Warning** Do NOT attempt "slam dunk" manoeuvres as this may result in severe injury due to falling, product breakage or collapse etc.
 **Electrocution / Electrical Shock Hazard - Outdoor** High voltage or high current electricity may be present or required by the product. Do NOT use in rain, damp, or wet conditions. Electrical shock can be fatal.	 **Electrocution / Electrical Shock Hazard - Disconnect** High voltage or high current electricity may be present or required by the product. Always disconnect the product from the electrical supply before handling the product, adjusting, maintenance etc.	 **Power Line Electrocution Hazard** High voltage / high current power lines may be present. Use extreme caution to avoid contact or interference with power lines. Electrical shock can be fatal.	 **"Kick-Back" Hazard** High level of "kick-back" hazard that can cause the machine to suddenly rotate towards operator. Kick-back injury can be fatal.
 **Winch Operator Position Hazard** Do NOT stand between winch and load. Do NOT use winch to move people.	 **Winch Lift Hazard** Do NOT LIFT load vertically. Use machine to PULL only.	 **Cable Hazard** Ensure that load bearing cable is not kinked or knotted.	 **Winch Cable Hazard** Ensure that there is a minimum number of cable coils on winching mechanism.
 **Winch Hook Hazard** Carry hook to load – do NOT throw or run.	 **Flash / Blinding Hazard** Wear appropriate eye protection for welding. Direct exposure to weld arcs may cause permanent eye injury.	 **Laser Hazard** Laser may be in use – do NOT look directly at laser or allow others to.	 **Choking Hazard** Children under 8 yrs. Can choke or suffocate on small parts. Adult supervision required.

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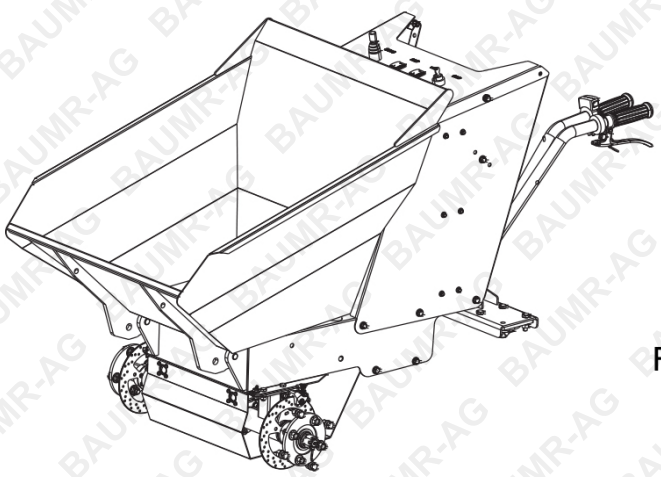
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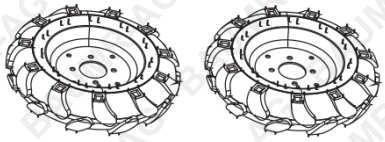
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Parts Identification

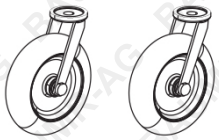
The dumper is supplied partially assembled and is carefully packaged for transport. After removing all components from the packaging, you should have the following items:



Main Frame with Dumper Box



Rear wheels
(4.00–8) ×2



Universal wheels
(3.50–4.00) ×2



Fastener pack
(screw bag)



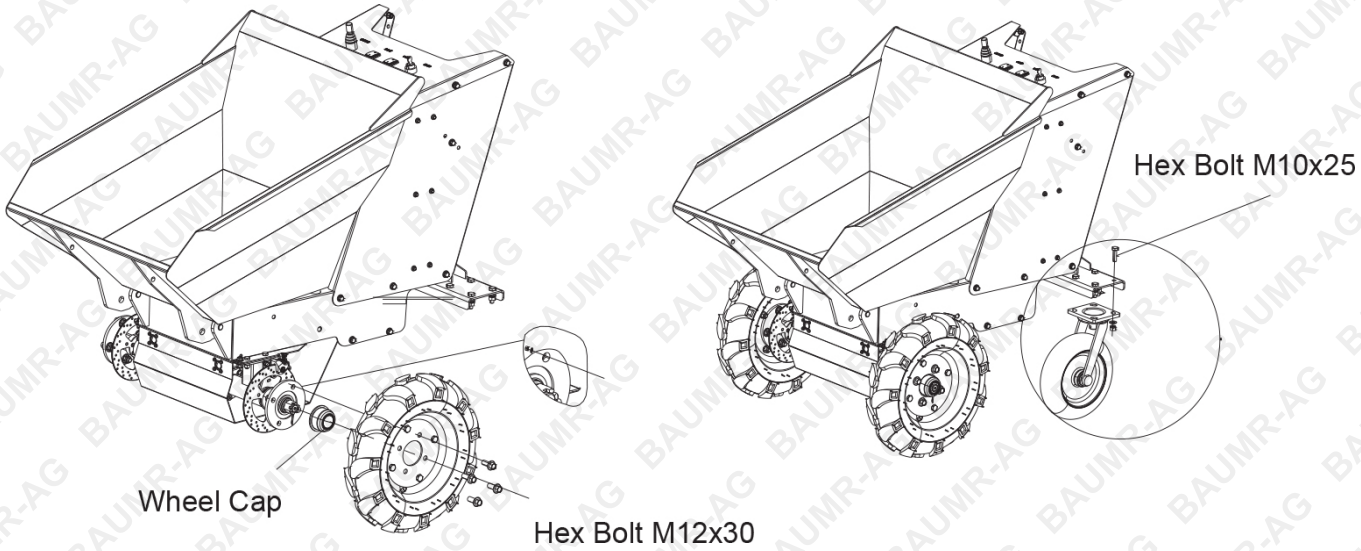
Battery charger

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Assembly

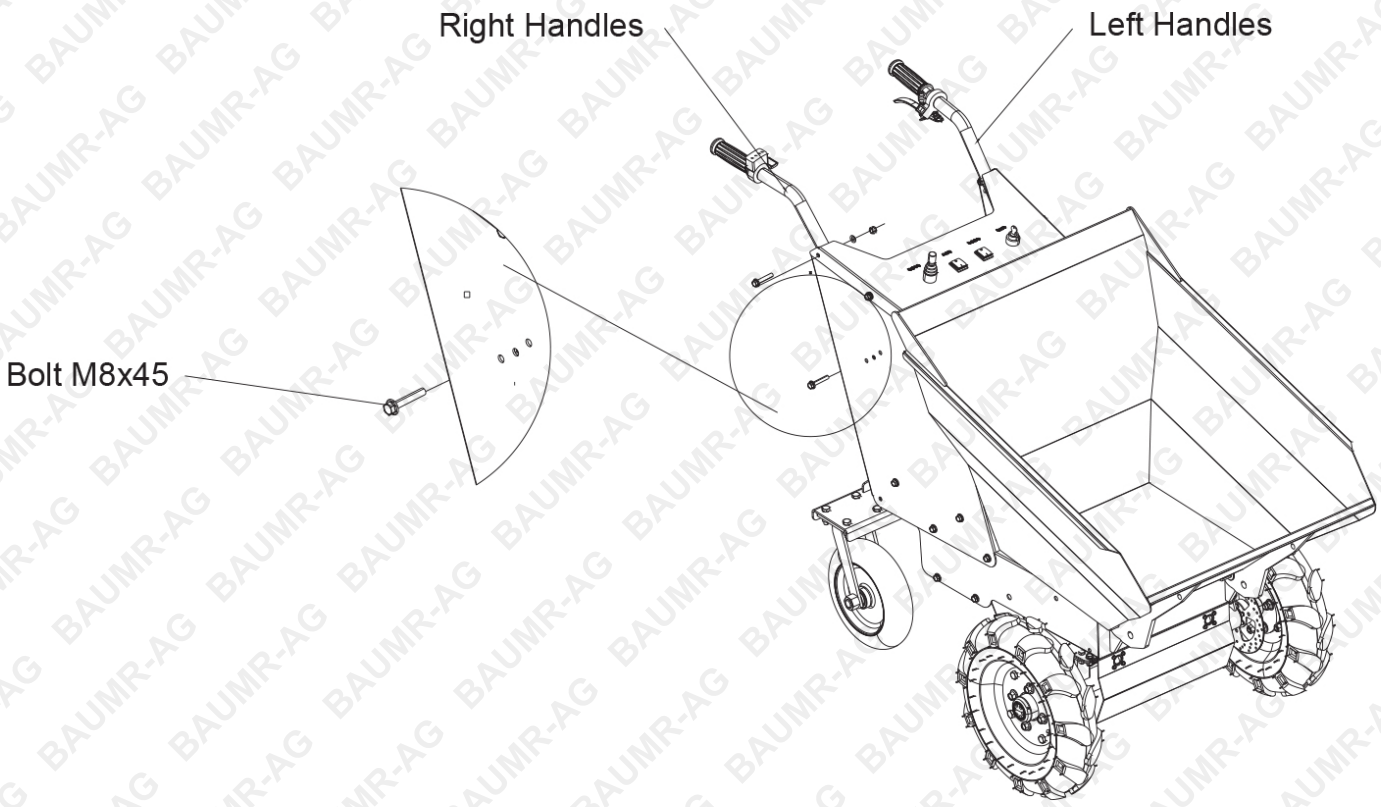
Wheel Installation

1. Install the wheels using 17 mm and 19 mm spanners and secure them with the supplied M10 × 25 and M12 × 30 hex bolts.
2. Fit the wheel cap after installing the rear wheels.
3. Ensure the valve stem faces outward.



Handle Installation

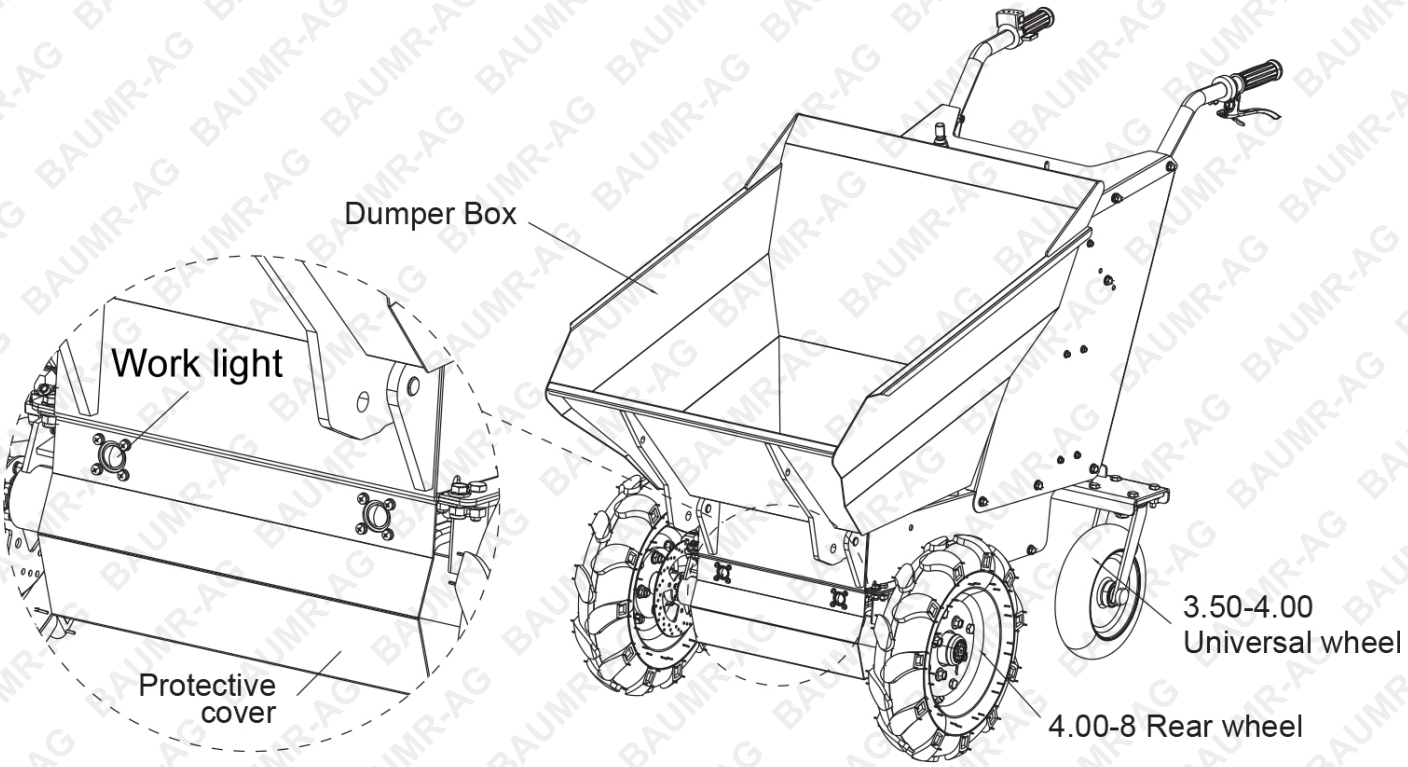
4. Attach the left and right handles to the frame.
5. Secure each handle using the supplied M8 × 45 bolts. Tighten using 13 mm and 15 mm spanners.
6. Ensure the handles are firmly secured before operating the machine.



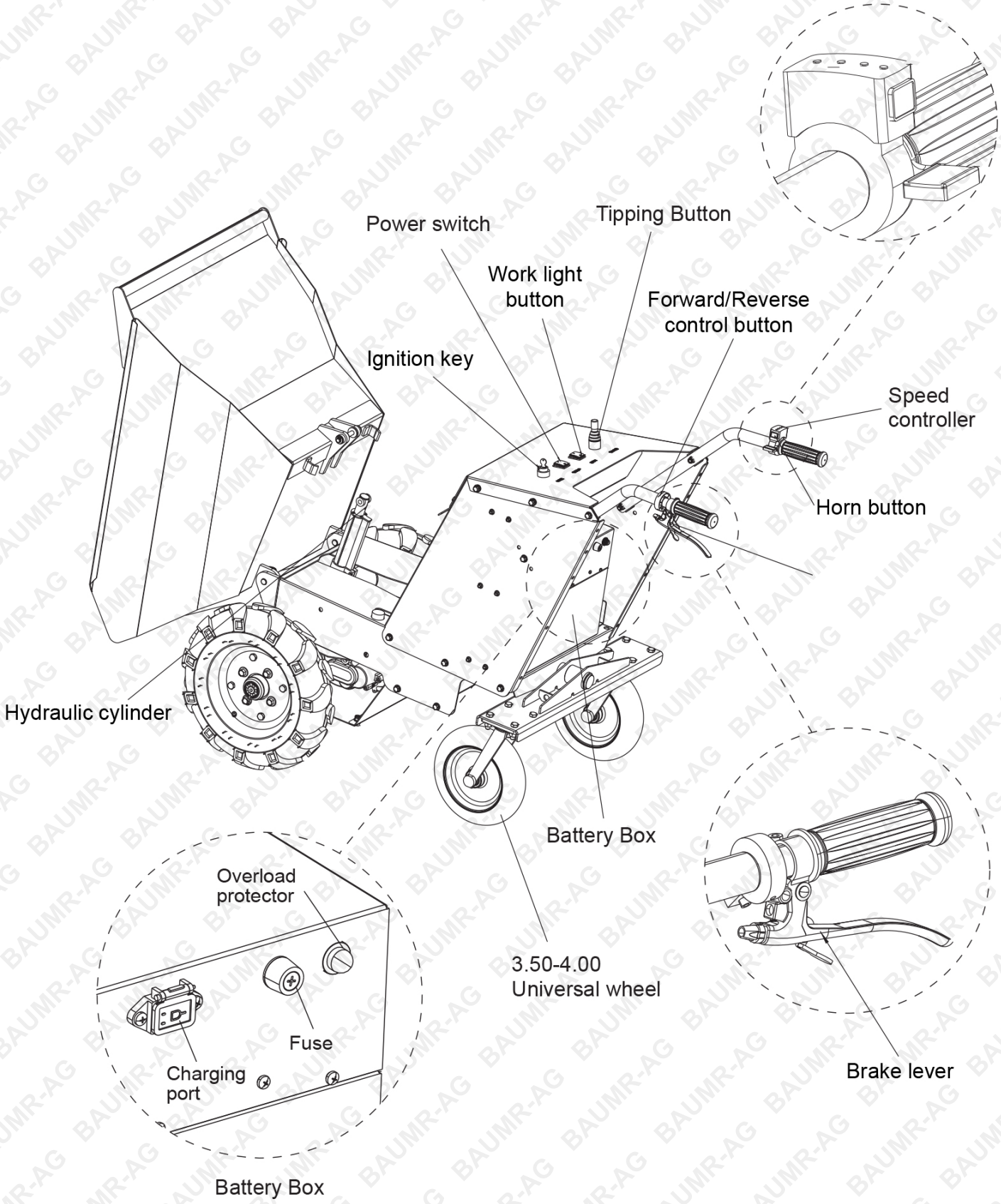
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Know Your Wheelbarrow Dumper

Features



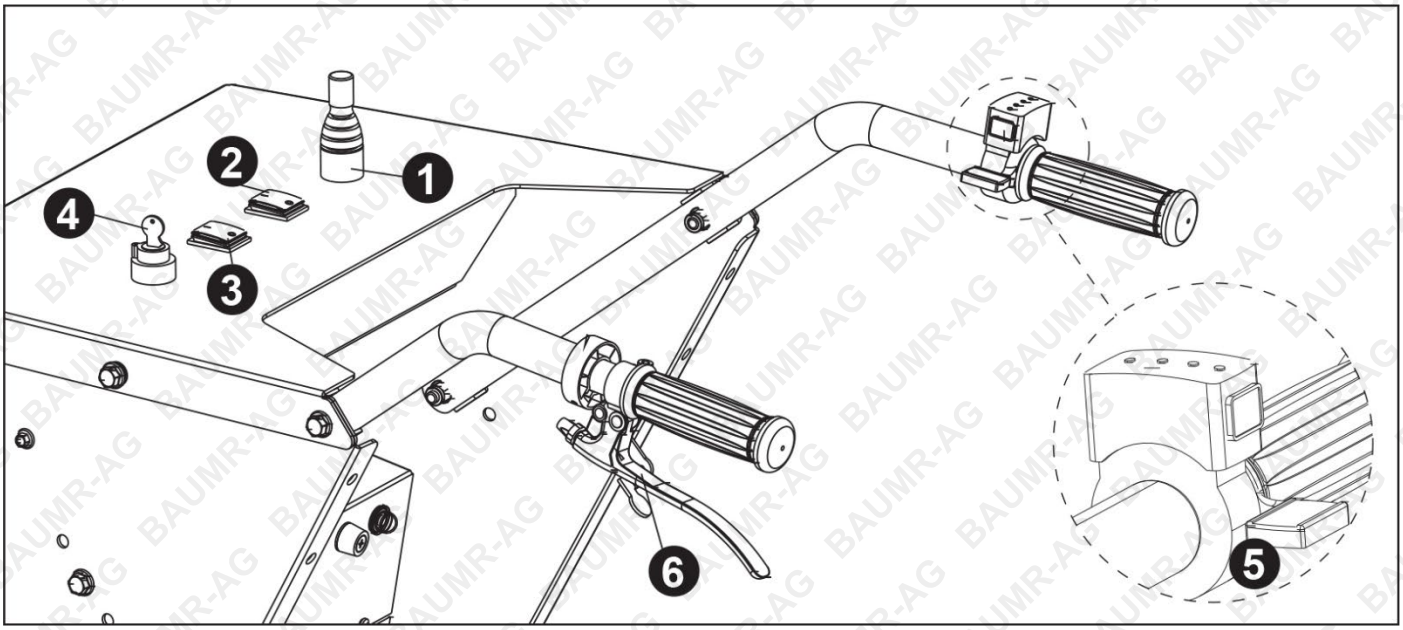
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Before starting the machine, ensure the dumper box is securely locked. Check the battery charge level and confirm the brake is functioning correctly.

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Controls



1. **Tipping button:** Controls the tipping function of the dumper box.
2. **Work light button:** Press “I” to switch the light ON and “O” to switch it OFF.
3. **Power switch**
   - Turn the switch to “I” to turn the dumper ON, or “O” to turn it OFF.
   - When switched to “I”, the power indicator light will illuminate.
4. **Ignition key:** Turn the key to start the dumper.
5. **Throttle lever:** Use to move forward or in reverse
6. **Brake lever:** Squeeze the brake lever to slow down or stop the machine.

Operation

Preliminary Checks Before Driving

Pre-operation Checklist

To ensure proper operation and maximise the service life of the machine, carry out the following checks before each working session:

- **Battery** – Check the battery charge level on the display.
- **Cleanliness** – Ensure the machine is free from dirt, debris and obstructions.
- **Fasteners** – Check that all bolts, nuts and components are securely tightened.

For detailed maintenance procedures, refer to the Maintenance section.

Battery Check and Charging

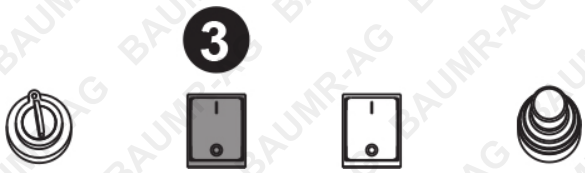
⚠ WARNING! Recharge the battery using the charger supplied by the manufacturer. Prevent dust or water from entering the charging port.

1. Switch on the battery.
2. Turn on the dumper using the ignition key.
3. Check the battery charge level on the display.

Starting and Operating the Dumper

1. Power On

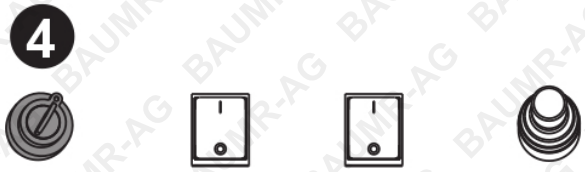
Turn the power switch (3) to the “I” (ON) position.



⚠ Notice: Hold the brake lever and ensure the machine is not moving forward or backward.

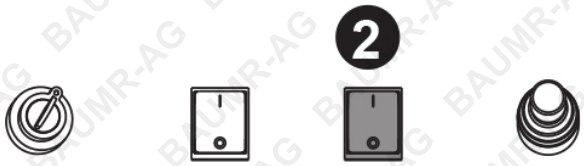
2. Start the Machine

Turn the ignition key (4) clockwise to start the dumper.



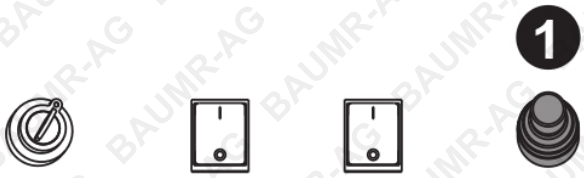
⚠ Notice: Ensure the throttle lever on the right handle is in the neutral (non-accelerated) position.

3. Work Light



Turn the work light button (2) to the “I” (ON) position if illumination is required.

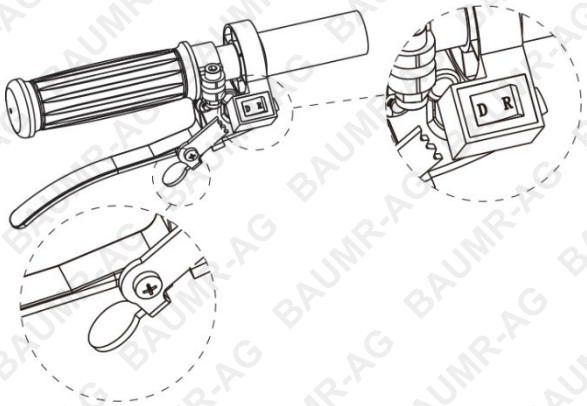
4. Tipping the Dumper Box



a. Push the tipping button (1) forward to raise the dumper box.
b. Push the tipping button backward to lower the dumper box.
c. When the dumper box reaches its upper or lower limit, it will stop automatically.

⚠ Notice: The dumper box will stop automatically when it reaches the limit position.

5. Forward and Reverse Movement



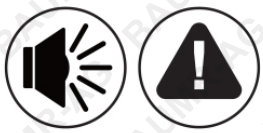
a. Set the forward/reverse selector on the left handle to:
   - “D” – Drive forward
   - “R” – Reverse
b. Press the speed controller on the right handle to move the dumper in the selected direction.

⚠ Notice: Ensure the brake lever on the left handle is released and not engaged in the parking position before driving.

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6. Reverse Warning Signal





a. Press the horn button on the right handle to activate the warning signal.

b. A warning tone will sound when the dumper is reversing.

⚠ Danger! Before starting work, check that the brakes are functioning correctly. To avoid loss of control on steep descents, operate at low speed with the throttle in position 1. Turns may be abrupt. Ensure the load is securely positioned in the dumper box. Take extra care when steering on slopes.

Load Limits

⚠ Danger! Always follow the load and slope limits specified below. When operating on slopes:

On unstable ground, reduce speed and proceed with caution, particularly when travelling downhill.

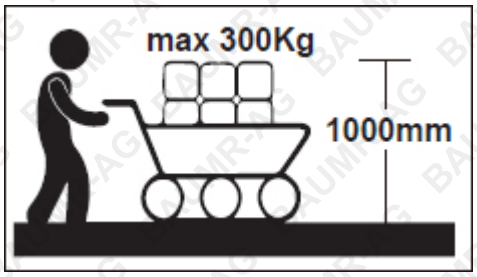
Take extra care when starting or stopping on a slope.

On steep slopes, avoid changing gears or making U-turns.

Ensure the load is securely fastened with ropes or restraints.

If stability is reduced, decrease the load weight.

If visibility is limited on slopes, reduce the height of the load.

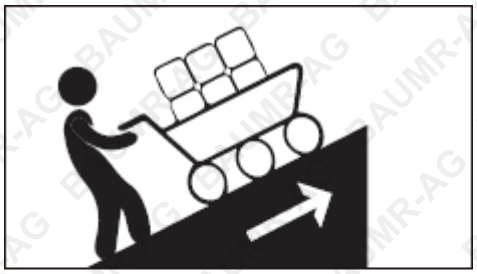


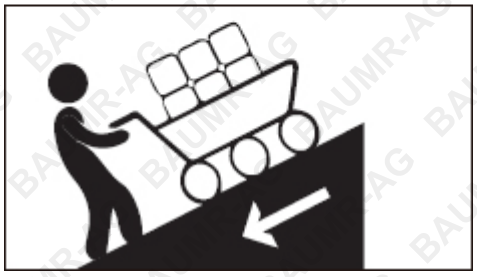
Flat Terrain Conditions

- Maximum load: 300 kg
- Maximum load height: 1000 mm

(Measured from the bottom surface of the dumper box.)

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Slope Conditions

- Maximum permissible slope: 15°

Maximum load depending on slope:

- 100 kg for slopes less than 15°
- 200 kg for slopes less than 10°
- 300 kg for slopes less than 5°

Maximum load height (measured from the bottom of the dumper box):

- 900 mm when travelling downhill
- 800 mm when travelling uphill

Unloading

⚠ Danger! Before unloading, stop the machine completely. Ensure the unloading area is clear of people and obstacles.

Unloading Procedure

1. Push the tipping button forward. The dumper box will raise automatically until it reaches the desired tipping position and the load is discharged.
2. After unloading, push the tipping button backward to return the dumper box to its original position.

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Lead-Acid Battery Care and Maintenance

Top 3 Battery Care Requirements

1. **Charge battery before first use**. The battery may arrive with some charge, regardless of this the battery must be charged for 8-10hr on the initial charge and 8-10hr for each subsequent charge.



2. **Charge battery immediately when it is depleted.** Do not store a depleted battery. This will permanently impact the life of the battery. If the battery is going to be stored for a period of time, fully charge the battery before storing.



To ensure the battery maintains optimum performance, follow the guidelines outlined below.

- For best results, charge batteries in temperatures between 10°C and 30°C
- When battery is charged, disconnect the charger from the power supply and remove the battery from the charger.
- Inspect the terminals, screws, clamps and cables for breakage, damage, or loose connections. These should be clean, tight, and free of corrosion.
- Use only with the battery charger specified by the manufacturer.
- Ensure that the battery charger electrical cord is not subjected to damage or stress. Do not operate the battery charger if it has a damaged electrical cord or plug.
- Do not use the charger in wet areas or expose it to rain or water.
- Keep the battery clean, dry, free of dirt and grime. A dirty battery can discharge across the grime on top of the battery casing.
- Apply a thin coating of high temperature grease to posts and cable connections for added protection.
- Inspect the battery case for obvious signs of physical damage or warpage. This usually indicates the battery has been overheated or has been overcharged.
- Batteries can explode in the presence of an ignition source, such as a pilot light. To reduce the risk of serious personal injury, never use any cordless product in the presence of open flame. Exploding batteries can propel debris and chemicals.
- Do not open the battery – danger of short-circuiting and/or explosion.
- Do not attempt to destroy or disassemble the battery pack or remove any of its components.
- Do not touch the battery terminals with metal objects and/or body parts as short-circuit and/or personal injury may result.
- Explosion hazard – protect the battery against heat, for example, direct sunlight and fire. Do not store batteries in vehicles or locations subject to heat.
- Explosion hazard – do not open and/or short-circuit the battery.
- Poison hazard – battery leakage (liquid ejection). Under extreme conditions, liquid may be ejected from the battery – avoid contact. If contact accidentally occurs, immediately seek medical attention, and flush with water. If liquid contacts eyes, immediately seek medical attention, flush with clean water for at least 10 minutes. Liquid ejected from the battery may cause irritation or burns.
- Dispose of non-serviceable batteries in an environmentally responsible manner and according to local regulations.

Failure to adhere to the requirements above may result in the battery becoming inoperative or battery life being reduced. In extreme cases or abuse, battery overheating, or fire may result.

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Maintenance

ATTENTION: Surface corrosion will occur on metal surfaces over time, and the rate of oxidation depends on factors such as proximity to the ocean and humidity or condensation of water vapour on metal surfaces. To mitigate this, WD40 can be used to remove surface corrosion then, when applied periodically, it will prevent rust from forming.

Regular maintenance and adjustments are required to keep the machine in good operating condition. Perform inspections and maintenance according to the maintenance schedule provided below. Do not carry out maintenance if visibility is poor.

⚠ Danger! Stop the machine before performing any maintenance work. Allow hot components to cool down before starting maintenance. Maintenance personnel must wear appropriate personal protective equipment (PPE), including gloves, safety footwear and eye protection.

⚠ Notice: Use only products recommended by the manufacturer. Use original spare parts or equivalent quality parts. The use of non-equivalent parts may damage the machine.

Lubricating the Wheels

Lubricate the wheels every 100 hours of operation to ensure smooth performance.

Tyres

Check that the wheel nuts are securely tightened. Loose wheel nuts may cause the wheel to detach and result in loss of control.

Fasteners

Periodically inspect all bolts, nuts and fasteners to ensure they are properly tightened. Retighten any loose components.

Electrical Connections

Periodically check all electrical wiring and connections to ensure they are secure and undamaged.

Brake System

Regularly inspect the motor carbon brushes. Replace them if excessive wear is detected.

Charger

- Inspect the charger regularly for damage to the power cord, plug, housing or other components that may create a risk of fire, electric shock or injury.
- If the charger is damaged, do not use it until it has been repaired or replaced.

Battery

- Inspect the batteries regularly and keep them clean and dry.
- It is recommended to fully charge the batteries before each use.
- Always charge the batteries in an upright position. For best results, charge the batteries while they are installed in the machine.
- During storage, keep the battery box and machine upright, with the drive wheels and support legs resting on level ground.

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Storage

If the machine will not be used for more than 30 days, follow the instructions below for proper storage.

- Charge the batteries fully before storage, and recharge them periodically during the storage period.
- Keep the batteries clean and dry. Do not store the machine in a wet or damp environment. Batteries may gradually discharge during storage.
- Protect the batteries from excessive heat, sparks and open flames, as this may cause an explosion.
- Clean the outside of the machine with a clean cloth, and ensure the air vents are free from dust and debris.
- Store the machine on level ground in a clean, dry and well-ventilated building.
- Do not store the dumper in direct sunlight.
- Before long-term storage, disconnect the batteries from any electrical circuits and store them in a cool, dry location where possible.
- Disconnect the batteries from the motor unit by separating the connectors and, if necessary, removing the cables from the battery terminals.

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Troubleshooting

Problem	Possible Cause	Solution
Machine does not run. **Machine was running but suddenly stopped.** **Short run time (less than 1–3 hours per charge).** **Machine runs sluggishly.** **Battery indicator lights do not illuminate.**	Battery undercharged	Charge the battery. Before first use, charge for at least 12 hours. After initial use, recharge until the green indicator light illuminates.
		Check all connectors. Ensure the charger is connected to the battery box and plugged into a power outlet.
		Ensure power is available at the wall outlet.
	Charger not operating	If the charger is suspected to be faulty, test with a voltmeter or contact the manufacturer for service.
	Loose wiring or connectors	Check all wiring and connections. Ensure the motor harness is properly connected and there are no loose wires.
	Battery fully discharged or faulty	Recharge the battery. If the issue persists, replace the battery.
	Battery overcharged	Do not charge the battery for more than 30 hours. If damage is suspected, contact the manufacturer.
	Machine overloaded or operating under excessive load	Do not exceed the maximum capacity (300 kg). Operate under suitable conditions.
Sometimes the machine does not run but operates intermittently.	Loose wiring or connector	Check all wiring connections and ensure they are secure.
	Motor or electrical fault	Contact the manufacturer for inspection and repair.
Battery makes a hissing or gurgling noise during charging.	Normal behaviour during charging	No action required. Slight noise or minor swelling can occur during charging.
		If there is no noise or slight swelling during charging, this does not indicate a fault.
One or more tyres are flat.	Tyre under-inflated	Inflate the tyre to the correct pressure.
	Puncture	Repair or replace the inner tube.
	Faulty valve	Tighten or replace the valve.
Machine feels loose or less stable than when first assembled.	Loose fasteners	Retighten all bolts, nuts and fasteners securely.

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Specifications

Motor Type	Brushless DC
Power (Watts)	800W
Power Type	Battery
Battery Type	Lead Acid
Battery Voltage	48V
Battery Capacity	20Ah
Charge Time	8-10hr
Charging Voltage	48V
IP Rating	IPX5
Forward Max Speed	5km/h
Reverse Max Speed	2km/h
Maximum Range	15km (Fully Loaded)
Brakes	Mechanical Disc Brake, Electronic Brake
Transmission	Gear
Axle	Differential
Body Material	Steel
Motion	Two-wheel drive, front-wheel drive
Frame & Chassis Finish	Powder coated
Bucket Volume	110L
Dump Angle	82°
Max Climb Angle	15° (280kg max load)
Max Load Capacity	300kg
Runtime	7hrs (4-5hr @ Max Load)
Wheel Type	Pneumatic
Wheel Size	16 inches (front); 10 inches (rear)
Power Plug	10A (SAA Approved)

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Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging, and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear, or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear, or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business, or employee, or financially affect the user, business, or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement, or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

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