



ELECTRIC WHEELBARROW

EWB150



ORIGINAL INSTRUCTIONS

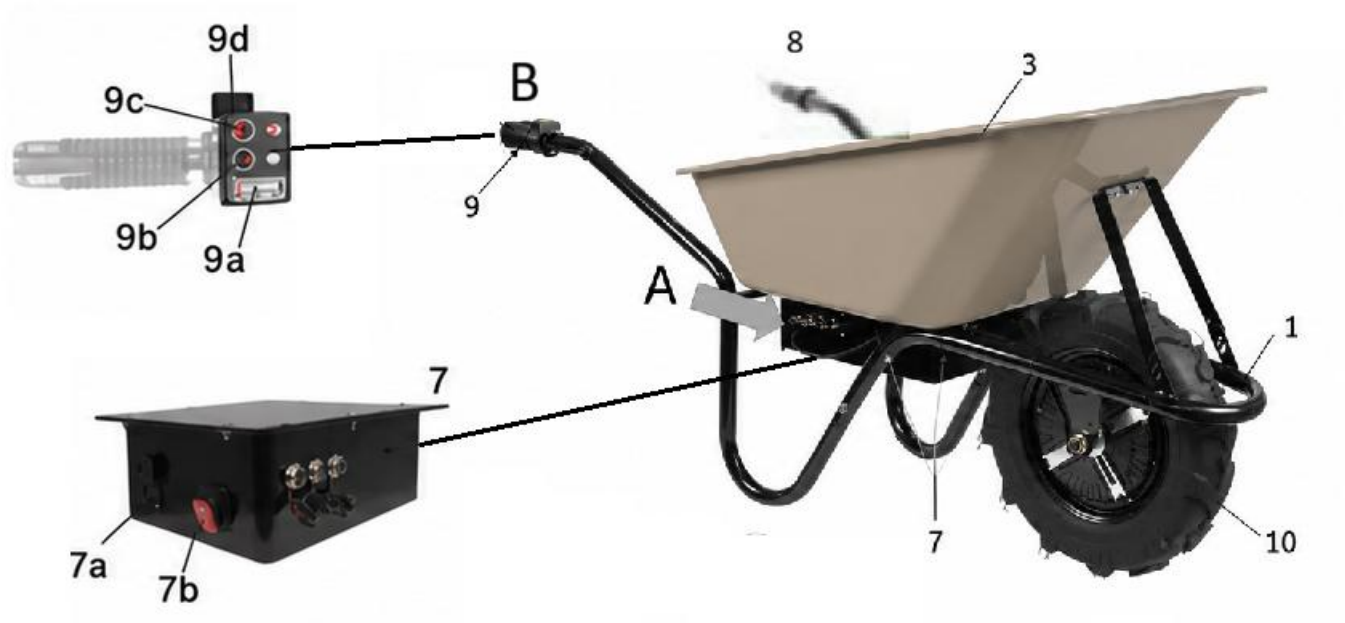


PLEASE READ THIS MANUAL CAREFULLY BEFORE USING THE EQUIPMENT



1 TECHNICS

1.1 Components



No	description	No	description
1	Front frame	9	motor control element
3	tray	9a	battery capacity indicator
7	battery box system	9b	brake button
7a	plug for battery charging	9c	direction button
7b	ON-OFF-Switch	9d	throttle lever
8	handle grip	10	wheel&motor Assy

1.2 Delivery content

No	Parts name	Qty
1	Front frame	1
2	U support for tray	1
3	Tray	1
4	Left handle	1
5	Right handle	1
6	Reinforced Rib	1
7	Battery assy	1
8	Handle cap	2
9	Speed control Lever	1
10	wheel&motor Assy	1
11	Charger	1
12	Instruction manual	1
14	Bolts&nuts&cable tie	1

1.3 Technical data

Rated voltage	24V DC
Battery capacity	12 Ah
Max Battery work time [h]	4 h
Motor power	500 W
Motor rated speed	100 min ⁻¹
speed	max. 6,0 km/h
max. load capacity	150kg / 75l
weight (net)	36 kg
Dimension	1470x600x800 mm
Charger:	
Input voltage	110~240 V / 50~60 Hz / AC
Power	66 W
Output	29.6 V
Charge time	6h
Protection class II	II
Battery:	
Rated voltage	24 V
Battery capacity	12 Ah
Battery power	288Wh
Weight	10.80kg
Dimension	151x99x97

2 SAFETY

2.1 Intended Use

The machine must only be used for its intended purpose! Any other use is deemed to be a case of misuse. To use the machine properly you must also observe and follow all safety regulations, the assembly instructions, operating and maintenance instructions lay down in this manual.

All people who use and service the machine have to be acquainted with this manual and must be informed about the machine's potential hazards.

The machine is used for:

Transportation of goods within the maximum permissible load capacity.

Any manipulation of the machine or its parts is a misuse, in this case Agrieuro and its sales partners cannot be made liable for ANY direct or indirect damage.



WARNING

- **The removal or modification of the safety components may result in damage to equipment and serious injury!**
HIGHEST RISK OF INJURY!

Ambient conditions

The machine may be operated:

humidity	max. 70%
temperature	+5°C to +40°C (+41°F to +104°F)

The machine, especially the battery; may not be exposed to a temperature of about 80 ° C. Do not store in the blazing sun or a long time in the trunk of a car.

Prohibited use:

- The operation of the machine outside the stated technical limits described in this manual is forbidden.
- The operation of the machine without provided protective devices is prohibited.
- The use of the machine not being suitable for the use of the machine and not being certified is forbidden
- The use of the machine not according with the required dimensions is forbidden.
- Any manipulation of the machine and parts is forbidden.
- The use of the machine for any purposes other than described in this user-manual is forbidden.
- It is not allowed to leave the immediate work area during the work is being performed.

2.2 Security instructions

Missing or non-readable security stickers have to be replaced immediately!

The locally applicable laws and regulations may specify the minimum age of the operator and limit the use of this machine!

To avoid malfunction, machine defects and injuries, read the following security instructions!

GENERAL:

- Use the machine only in good enough light to allow a safe operation can be guaranteed.
- In tiredness, decreased concentration or under the influence of alcohol or drugs, the work on the machine is prohibited!
- Caution in slippery conditions - slip hazard - risk of injury. When working, robust and non-slip footwear. Slides / stumble / traps are a major cause of serious injury or death.
- The machine must be operated only by trained persons (knowledge and understanding of this manual), which have no limitations of motor skills compared with conventional workers.
- Keep the machine in use with both hands
- Unauthorized persons, especially children and not trained personnel must be kept away from the running machine!
- If you pass the machine to third, these instructions must be attached to the machine.
- Before the start, after the failure or shock, be sure to check the device and make sure that it is in good condition
- Take special care when work near swimming pools or garden ponds.
- Never use the machine when it is raining or in damp, wet areas
- Unplug battery before all maintenance and settings!

CHARGER:

- The charger is designed exclusively to charge the battery of this machine. Charging other batteries is not permitted.
- Never use the charger in a damp or wet environment
- Disconnect cable connections only by pulling the plug. Pulling on the cable could damage the cable and plug and electrical safety would no longer be guaranteed.
- Never use the charger if the cord, plug or the appliance itself is damaged by external influences. Attach the charger then to the next workshop.
- Do not use the unit near heat sources
- Do not use extension cord to supply power to the charging station
- Do not place metal objects in the area of the charging contacts of the charger.
- Do not open the charger. In case of failure, contact a specialist workshop.
- Use to recharge your battery only with the original charger. Use of other chargers defects may occur or fire hazard.

BATTERY:

- Improper use or the use of damaged batteries leaking vapors. Run to fresh air and seek medical attention in case of complaints. The vapors can irritate the respiratory tract.
- **FIRE HAZARD!** Never charge batteries near acids and flammable materials.
- Charge the battery only in an ambient temperature between 0 ° C to +40 ° C. Leave to cool down after heavy load.
- **EXPLOSIVE!** Protect the battery from heat and fire.
- Use the battery only in an ambient temperature between 0 ° C to +45 ° C.
- **SHORT CIRCUIT!** For disposal, transport or storage, the battery must (plastic bag, box) or the contacts are packed must be taped.
- Never open the battery

2.3 Remaining risk factors

Despite intended use, certain residual risks remain. Due to the design and construction of the machine, hazardous situations may occur which are identified as follows in these operating instructions:

DANGER



A safety instruction designed in this way indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

WARNING



Such a safety instruction indicates a potentially hazardous situation which, if not avoided, may result in serious injury or even death.

CAUTION



A safety instruction designed in this way indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE



A safety note designed in this way indicates a potentially dangerous situation which, if not avoided, may result in property damage.

Irrespective of all safety regulations, your common sense and your corresponding technical suitability/training are and will remain the most important safety factor for error-free operation of the machine. **Safe working depends first and foremost on you!**

3 ASSEMBLY

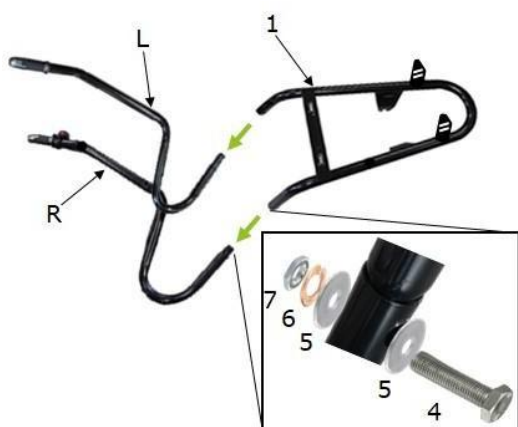
Please check the product contents immediately after receipt for any eventual transport damage or missing parts. Claims from transport damage or missing parts must be placed immediately after initial machine receipt and unpacking before putting the machine into operation. Please understand that later claims cannot be accepted anymore.

NOTICE



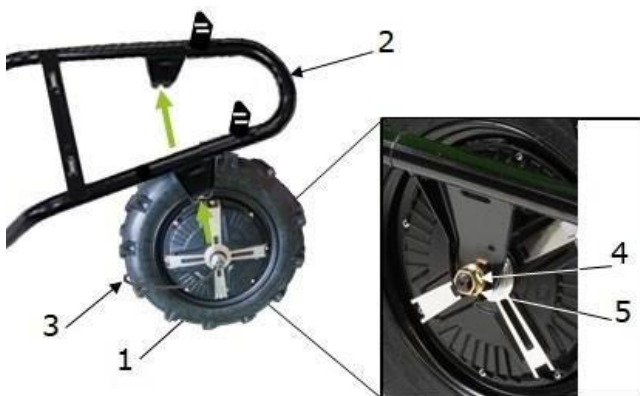
Don't fully tighten all screws until assembly is complete.

3.1 Assembly-steps



1. Step

Assemble the left (L) and right handle (R) to the frame (1) using one hex screw (4), two washers (5), one spring washer (6) and one nut (7) each.

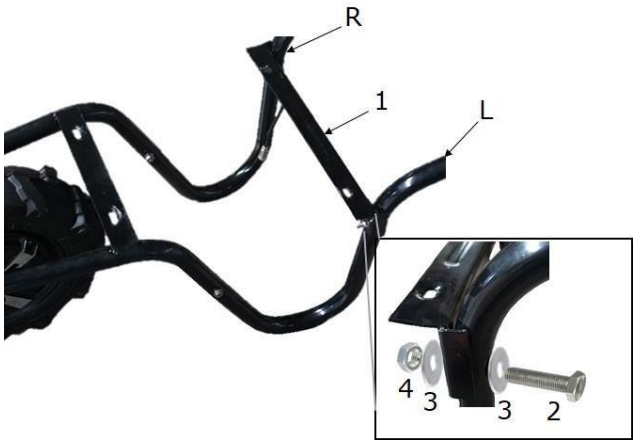
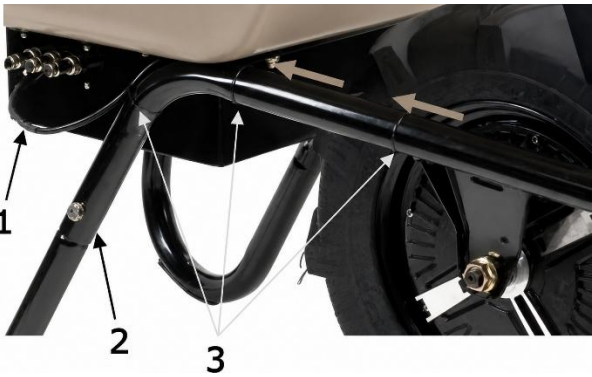


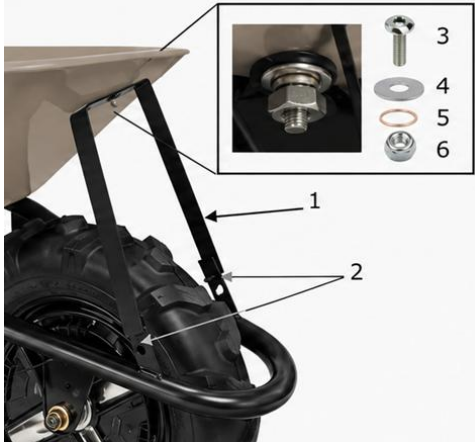
2. Step

First disassemble the nuts (4) and washers (5) attached to both sides of the motor wheel (1). Install the motor wheel (1) on each side by means of a washer (5) and a nut (4) at the frame (2).

Note:

The wheel must be assembled so that the cable (3) is placed on the right side.

	3. Step Assemble the support (1) to the handles (L, R) using one hex screw (2), 2 washers (3), and one nut (4) each.
	4. Step Fasten the cable (1) of the motor wheel to the frame (2) using cable ties (3).
	Fasten the cable (4) to the right handle (R) using cable ties (3).

	5. Step Install the battery box system (2) at the holes (1) provided for this purpose on the tray. Fix the battery box system (2) with one round-headed screw (3), one washer (4), one spring washer (5) and one nut (6) each.
	6. Step Install the tray (1) to both struts (6) using a total of 4 round-head screws (2), 4 washers (3), 4 spring washers (4) and 4 nuts (5).
	7. Step Hook the front support (1) into the two longitudinal holes (2) on the frame and move it forward. Fix the front support (1) to the tray using a round-headed screw (3), a washer (4), a spring washer (5) and a nut (6).
	8. Step Connect the 6-prong plug to position (1), the 5-prong plug to position (2) and the 3-prong plug to position (3).

	Assembly completed
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4 OPERATION

Device to be operated in a perfect state only. Inspect the device visually every time it is to be used. Check in particular the safety equipment, electrical controls, electric cables and screwed connection for damage and if tightened properly. Replace any damaged parts before operating the device.

4.1 Operation instructions

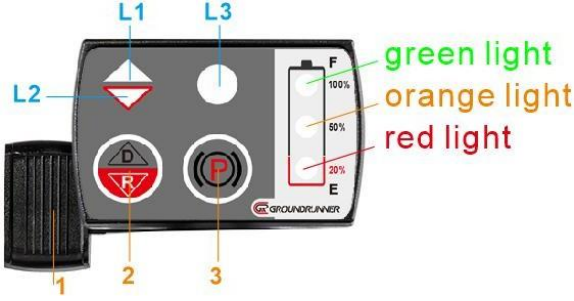
	WARNING Unplug battery before all maintenance and settings!
	NOTICE Never remove the battery while the machine is running

4.2 Operation

4.2.1 Start electrical support

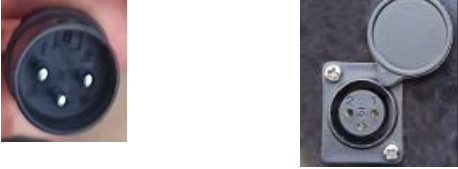
	1. Set the ON-OFF switch (1) on the battery box system to "I" = ON.
	2. light #L1(green), #L3(green) 3. press the throttle lever #1, the wheelbarrow will go forward 4. if press diecction button #2 once, light #L2 on, press throttle lever #1, the wheelbarrow will go backwards 5. if press brake button #3, then light #L3 #L2 will turn red, the EBS brake gets activated, the wheelbarrow won't move even pressing throttle lever #1. Press the button #3 again, the EBS will get deactivated

4.2.2 Stopping the machine

	When the throttle lever #1 is activated, the battery charge level is displayed as follows: - All 3 LEDs green-orange-red light up: Battery charge level between 100-50% - Only red and orange LEDs light up: Battery charge level between 50-10% - Only the red LED lights up: Please charge the battery
	3. Set the ON-OFF switch (3) on the battery box system to "O" = OFF.
	Fix the shaft of the motor to lift the tires off the ground. (Please note that during the following operation, the tire will rotate, so be sure to prevent damage to the cables and injuries to personnel.) Plug in the two cables of the wheel&motor Assy (3-pin and 5-pin cable). Turn on the power. Press the button and observe the direction of the motor's rotation. If the direction is correct, keep pressing for more than 6 seconds. (It is important for the stability of the phase.) If the direction is incorrect, release the button, wait for one second, and then press the button again. (The direction of the tire's rotation will change by pressing the button again.) Keep pressing for more than 6 seconds. Then release the button. Plug in the speed control lever and check if the forward/reverse/brake functions are normal. If everything is normal, the problem is solved. If not, please try the steps again. If this method fails to solve the problem, it means that the motor controller has malfunctioned. In this case, a completely new motor controller needs to be replaced.

4.3 Charger

Charging the battery:

	1. Connect the charger to the power supply (AC outlet) 230 V / 50 Hz and the charger plug (1) at the battery box system.
	2. Charge the battery as long as only the red LED lights up.
	3. When the battery is fully charged, the light on the charge will turn green. 4. Disconnect the charger from the power supply and the charger plug.

MAINTENANCE

ATTENTION



Unplug battery before all maintenance and settings!
Serious injury due to unintentional or automatic activation of the machine!

The machine does not require extensive maintenance. If malfunctions and defects occur, let it be serviced by trained persons only.

NOTICE

Clean your machine regularly after every usage – it prolongs the machines lifespan and is a prerequisite for a safe working environment.

Repair jobs shall be performed by respectively trained professionals only!

Check regularly the condition of the security stickers. Replace them if required.

Check regularly the condition of the machine.

Store the machine in a closed, dry location

5.1 Maintenance plan

After each workshift:

- ✓ Check the cables (tight fit, damage)

5.2 Cleaning

NOTICE

The usage of certain solutions containing ingredients damaging metal surfaces as well as the use of scrubbing agents will damage the machine surface!

Clean the machine surface with a wet cloth soaked in a mild solution

Never use running water or a high pressure cleaner to clean the machine.

- ✓ Clean the outer parts with a damp sponge.
- ✓ Never clean the electronic parts with water!
- ✓ Check the machine and remove the deposits and / or residues with a brush

5.3 Storage

- ✓ Clean thoroughly all components before storage.
- ✓ Store all components separately in a dry area at not less than -10 °C.
- ✓ Charge the battery fully before storing.

NOTICE

During longer standstill but at least after one month charge the battery.

5.4 Disposal



Do not dispose the machine and the battery in residual waste. Contact your local authorities for information regarding the available disposal options. When you buy at your local dealer for a replacement unit, the latter is obliged to exchange your old.

6 TROUBLE SHOOTING

BEFORE YOU START WORKING FOR THE ELIMINATION OF DEFECTS, UNPLUG THE BATTERY.

Trouble	Possible cause	Solution
No electrical support	Battery is not charged	Recharge battery
	Motor stuck	Check motor
	Power switch is damaged	Check switch
	Broken or loose cables	Check cables
No charging of battery	Loosen cable	Check cable connection

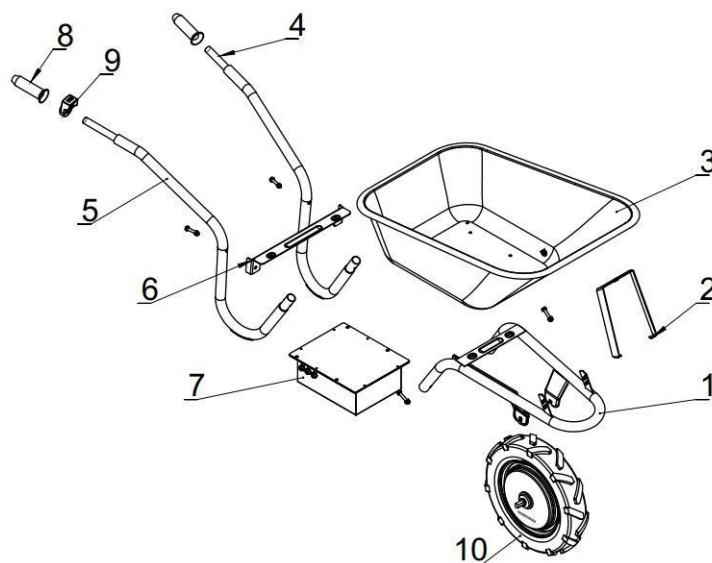
7 SPARE PARTS

The installation of other than original spare parts voids the warranty!

So you always have to use original spare parts

When you place a spare parts order please use the service formular you can find in the last chapter of this manual. Always take a note of the machine type, spare parts number and partname. We recommend to copy the spare parts diagram and mark the spare part you need.

7.1 Exploded view



No.	Parts Name	Qty
1	Front frame	1
2	U support for tray	1
3	Tray	1
4	Left handle	1
5	Right handle	1
6	Reinforced Rib	1
7	Battery assy	1
8	Handle cap	2
9	Speed control Lever	1
10	wheel&motor Assy	1