



ELECTRIC WHEELBARROW

EWB260



ORIGINAL INSTRUCTIONS



PLEASE READ THIS MANUAL CAREFULLY BEFORE USING THE EQUIPMENT



1 TECHNICS

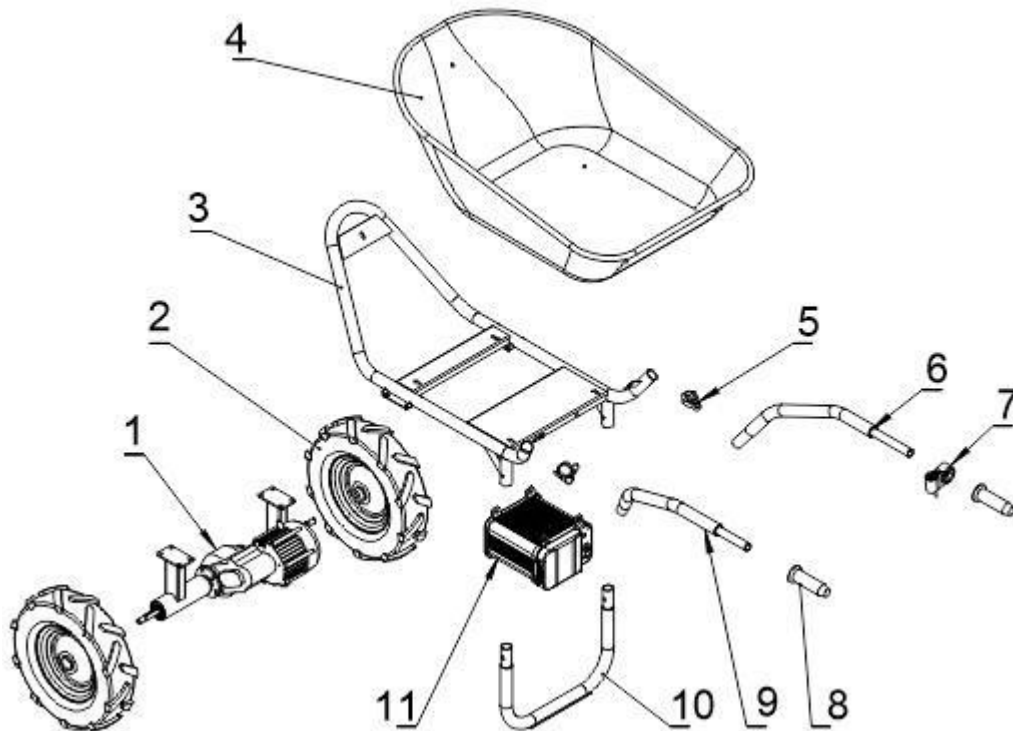
1.1 Components



No	description	No	description
1	Drive motor assy	6	Right handle
2	Front wheel	7	Speed control lever
3	Front base frame	9	Left handle
4	Tray	10	Back U support

1.2 Delivery content

1.3



No	Parts Name	Qt
1	drive motor assy	1
2	front wheel	2
3	Front base frame	1
4	Tray	1
5	Fast Lock	1
6	right handle	1
7	Speed control lever	1
8	handle cap	2
9	left handle	1
10	Back U support	1
11	battery box	1

Other accessories: Battery, Battery charger, Manual, Cable tie,

1.3 Technical data

Rated voltage	36V DC
Battery capacity	7.5 Ah
Max Battery worktime [h]	4 h
Motor power	350 W
speed	max.forward 6 km/h reverse 2 km/h
max. load capacity	260kg
weight (netto/net)	36kgs
Dimension	1480x660x660 mm
Charger:	
Input voltage	110~240 V /50~60 Hz / AC
Power	66 W
Output	42 V
Charge time	3.75 h
Protection class	II
Battery:	
Rated voltage	36 V
Battery capacity	7.5 Ah
Battery power	270Wh
Weight	1.8kg
Dimension	180x110x80

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 MASCHINEN 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

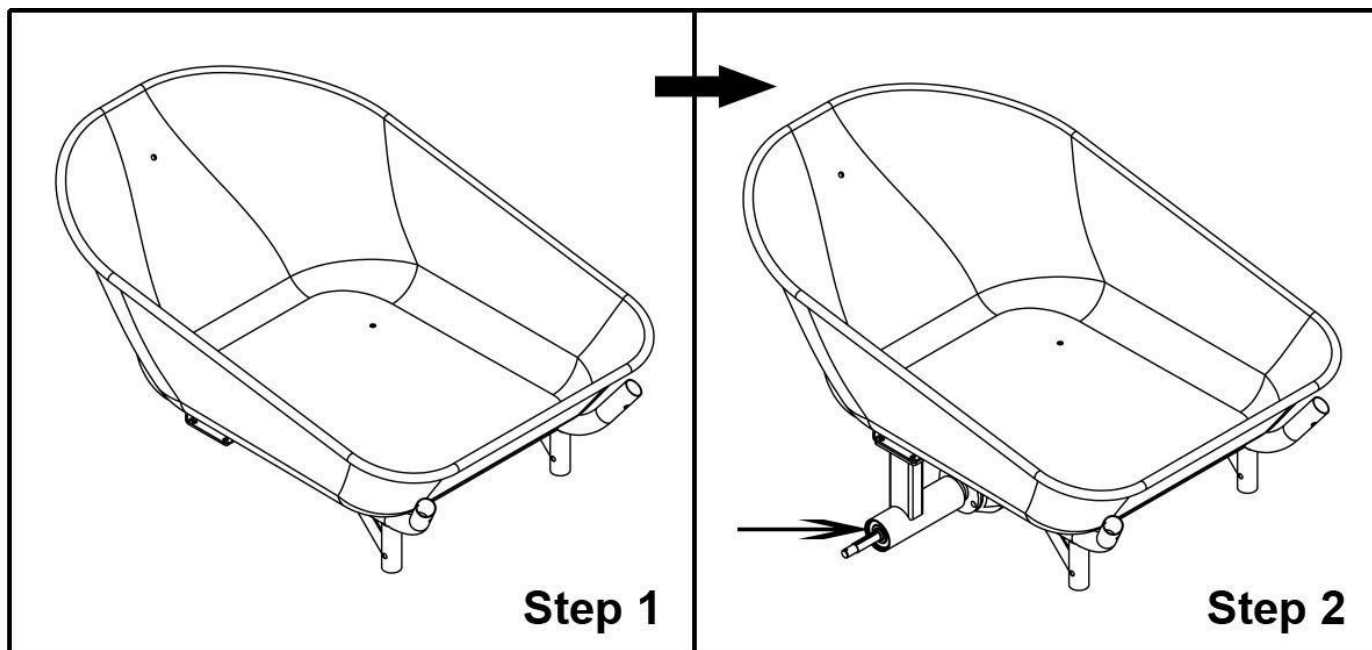
Please check the product contents immediately after receipt for any eventual transport damage or missing parts. Claims from transport damage or missing parts must be placed immediately after initial machine receipt and unpacking before putting the machine into operation. Please understand that later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

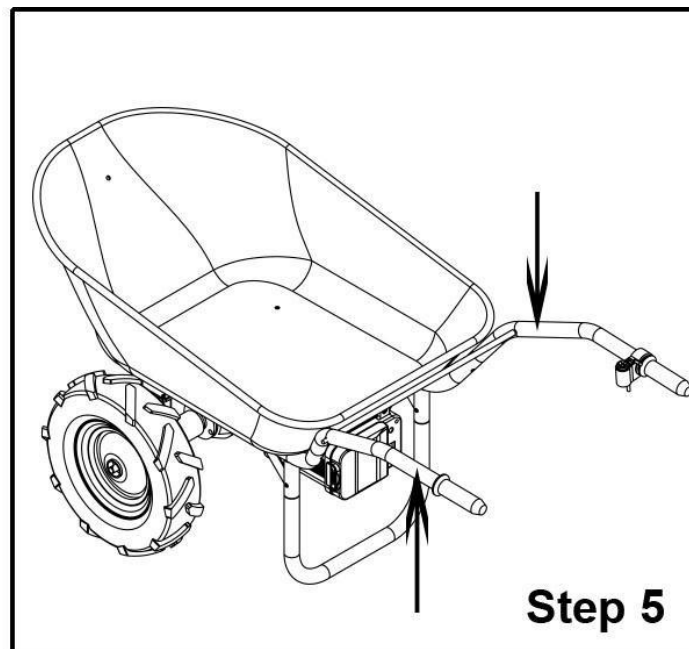
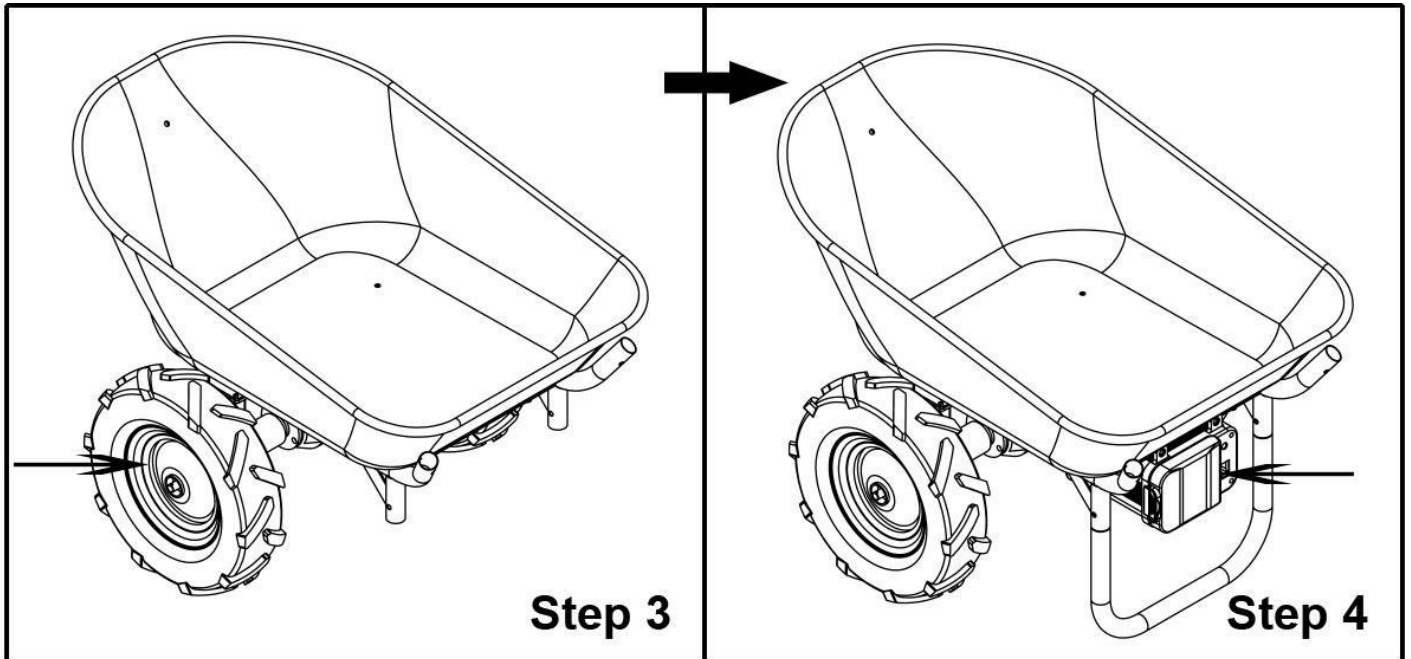
NOTICE



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

3.1 Assembly-steps for body





3.2 Assembly-steps for cable

Now it's time to connect the cable



Connect motor cable



Plug from the motor

3&5-pole socket on the battery box

Warning: Only nut #1 is allow to be turned in order to fasten or unfasten the plug, nut #2 is prohibited to be turned otherwise for professional repair.



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.

Operation instructions



WARNING

Unplug battery before all maintenance and settings!



NOTICE

- ✓ Never remove the battery while the machine is running In case of
- ✓ longer standstill, press the shut-down button Use the electric
- ✓ motor only with sufficient battery charge

Start electrical support

	1. Press the red power switch to “1” position
	Light #L4(green), #L3(green), #L1(green) is ON, light #L2 and #L5 is OFF. Press the throttle lever #1, the wheelbarrow will go forward. If button #2 is pressed the light #L4 will be ON, light #L5 on, press throttle lever #1, the wheelbarrow will go backwards. If button #3 is pressed, then light #L3 will turn red, the EBS brakes, the wheelbarrow won't move when throttle lever #1 is pressed. Press button #3 again, the EBS will get deactivated. If button #4 is pressed, the light #L2 will be ON, the wheelbarrow works at a lowercase t mode with more power. Press button #4 again, the wheelbarrow will return to Eco mode, this model has a longer working time
	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.) 1. Plug in the two cables of the wheel&motor Assy (3-pin and 5-pin cable). 2. Turn on the power. 3. 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. 4. Plug in the speed control lever and check if the forward/reverse/brake functions are normal. Then assemble the battery box cover. 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.

Charger

Charger is integrated in the battery box system.

Charging the battery:

- 1. Connect the charger to the power supply (AC outlet) 110 V / 60 Hz and the charger plug.
- 2. Charge the battery
- 3. Once the battery is fully charged (indication on the charger) the charger can be removed.

LED- indication on the control element:

Voltage-display on battery box indicates the status of the battery.

Battery voltage display:

Voltage display shows 42 V	Battery capacity 100%
Voltage display shows 36V	Battery capacity ~50%
Voltage display shows <30 V	Please charge the battery (too less capacity left)



- #1 voltage display switch
- #2 voltage display
- #3 recharge port

5 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 pre- requisite 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.

No electrical support	Battery capacity is at low level	Check the voltage with the switch on the battery, recharge or change to use other battery
	Operate speed control lever too fast	The wheelbarrow will move about 1 second later after pressing the speed regulator due to buffer start
	EBS is ON	Turn off the EBS on the speed control lever by version 2022: Press the "P" button to ensure light is green
	Power switch is damaged	Replace the power switch
	Broken or loose cables	Check cables, fasten the joint or replace the parts
	Motor stuck	1. Disconnect the motor cable from the motor controller, try to rotate the motor, if motor rotates easily, then change the motor controller may solve the problem 2. If the motor is still stucked, then change the motor
	ECU in the motor controller is broken	The ECU protects the motor, it may be broken after continuous overload several times. Change the ECU and won't overload will solve the problem
Extra resistance	BAS is ON	When power is ON and speed regulator is not pressed,
No charging of battery	Poor connection	Check and connect the battery and AC power supply separately
	Faulty charge	Change a charger to recharge the battery
	Faulty battery	Change the battery
For professional repair only	When new motor controller is replaced, sometimes it needs to reprogram the ECU, please refer to the instruction	

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 1.2 Delivery Content. 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.