Cubro

USER GUIDE

Freestyler

Product code: 9606, 9607, 9608

Maximum user weight: 115kg

Contents

Definitions

Symbols used in this user manual and their meanings:

	WARNING! Failure to heed this warning may result in damage to the product or serious injury to the operator/user.		ATTENTION! Read and understand the instructions in the user guide before using the product.
	CAUTION! Beware of pinch points and entrapment hazards.		WARNING! DO NOT use as a seat in a motor vehicle
	Important information.		

Intended Use

The scooter is intended for the moving of people with physical impairment by self-driving. It provides enhanced mobility and independence for individuals with limited mobility.
It is suitable for indoor use only and can negotiate gradients of up to 3°. The maximum user weight is 115kg and the scooter is classified as Class A (EN12184).

The product is not intended for use by people with visual impairments. The drivers need to be mentally and physically suitable to drive the scooters. In addition, the fingers need to be functional.

The scooter may only be used by persons who can guarantee correct handling on the basis of their training or knowledge and practical experience. The users of the scooter must have received instructions for correct use and must have familiarized themselves with the equipment with the help of these instructions.

	WARNING! **The scooter is not for use as a seat in motor vehicle. All adjustments can be adjusted by both occupant and assistant. This vehicle is suitable for land and/or air transport.**
	**The scooter meets the requirements for AS/NZS ISO 7176.16**
	**The driving characteristics cannot be adjusted outside the limits specified.**

Indications

Inability to walk or severe walking impairment due to:

- Paralysis
- Loss of limbs
- Extremity defect / deformity
- Joint damage (not on both arms)
- other impairments

The scooter is recommended when the impairment prevents the use of hand-driven wheelchairs, but an electric motor drive can still be operated correctly.

Contraindications

The scooters are unsuitable for people:

- with severe balance problems
- with reduced and insufficient eyesight
- with severe cognitive impairments
- The device cannot be used by children under 12 years old.

Conformity

This scooter meets the requirements of EN 12184: 2014 and the requirements for class I medical devices in accordance with Class I of Regulation MDR 2017/745 annex VIII.

Safety Precautions

	ATTENTION! **This user manual must be read before using the scooter. Severe injury or death may result if user instructions, maintenance instructions and product warnings are not followed.**
	WARNING! **A Health Care Professional should carry out a risk assessment of the operator before using the scooter.**
	WARNING! **DO NOT sit on your scooter while it is in a moving vehicle. The scooter is not for use as a seat in motor vehicle.**

- DO NOT exceed the maximum user weight of 115kg
- The angle adjustment of the backrest or the position change of the seat can seriously affect the overall scooter stability
- The scooter may come to a sudden stop at anytime during the operation
- The stopping distance on slopes can be significantly greater than on level ground
- The occupant can switch off the key to stop the scooter for any emergency stop
- The scooter should be turned off prior to entering or existing the seat
- Make sure the scooter is fully un-folded before driving.
- DO NOT use the scooter if it is behaving abnormally or erratically
- DO NOT operate scooter outdoors
- To prevent injury to yourself or others, always ensure that the power is switched off when getting on or off of the scooter
- Always check that the drive wheels are engaged (drive mode) before driving. Do not switch off the power when the scooter is still moving forward. This will bring the chair to an extremely abrupt stop
- DO NOT attempt to lift or move the scooter by any of its removable parts including the armrests, seats or shrouds. Personal injury and damage to the power chair may result
- DO NOT try to use your scooter beyond its limitations as described in this user guide
- Keep your hands away from the wheels (tires) while driving the scooter. Be aware that loose fitting clothing can become caught in the drive tires
- Consult your physician if you are taking prescribed medication or if you have any certain physical limitations. Some medications and limitations may impair your ability to operate the scooter in a safe manner
- Be aware when the drive mode is unlocked or locked
- DO NOT remove anti-tipper if there is any-tipper equipped with the scooter
- DO NOT connect an extension cord to the AC/DC converter or the battery charger

- When climbing an incline, DO NOT drive at an angle up the face of the incline. Drive your scooter straight up the incline. This greatly reduces the possibility of a tip or a fall
- DO NOT climb a slope steeper than the scooter's limitation.
- DO NOT attempt to have your scooter proceed backward down any step, curb or other obstacle. This may cause the scooter to fall or tip.
- DO NOT corner sharply when driving scooters at higher speeds. Always reduce your speed and maintain a stable centre of gravity.
- DO NOT sit on your scooter when it is being used in connection with any type of lift or elevation product. Your scooter is not designed with such use in mind
- Contact with tools can cause electrical shock
- The programming of the controller shall only be carried out by personnel, which is authorized by Cubro. Incorrect programming can result in safety hazards for the occupant
- DO NOT carry passengers on the scooter
- Surface temperatures can increase when exposed to external sources of heat
- The driving characteristics cannot be adjusted outside the limits specified
- The adjustments of seating or wheel positions cannot be set outside safe limits
- Environmental conditions may affect the safety and performance of your power scooter. Water and extreme temperatures are the main elements that can cause damage and affect performance.
- The scooter needs to be folded properly before any transporting.

	The scooter has provision for an anterior pelvis support to be fitted such as belt

	**WARNING!** Although the scooter has passed the required IPX4 water spray test requirements, keep electrical connections away from sources of moisture, including direct exposure to water or body fluids, and incontinence. Check the electrical components frequently for signs of corrosion and replace if necessary.
	**WARNING!** The charger should only be used in a dry interior. Protect from moisture and wetness.

Always use a seat belt and keep your feet on the scooter all the times.

Never operate the scooter while under the influence of alcohol.

Never use electronic radio transmitters such as walkie talkies, or mobile phones.

Do not ride your scooter in traffic.

Do not attempt to climb curbs greater than the limitation shown in the Technical Specification.

Do not leave your hands and legs off the scooter when driving.

Make sure that there are no obstacles behind you while reversing your scooter.

Do not make a sharp turn or a sudden stop while riding your scooter.

Do not allow unsupervised children to play near this equipment while the batteries are charging.

Environmental Conditions

- Operating in rain, snow, salt, mist conditions and on icy or slippery surfaces may have an adverse effect on the electrical system
- If exposed to water, your power scooter is susceptible to damage to electronic or mechanical components. Water can cause electronic malfunction or promote premature corrosion of electrical components and frame.

Temperature

- Some of the parts of the power scooter are susceptible to change in temperature. The controller can only operate in temperature that ranges between -20°C ~ +45°C
- At extreme low temperatures, the batteries may freeze, and your power scooter may not be able to operate. In extreme high temperatures, it may operate at slower speeds due to a safety feature of the controller that prevents damage to the motors and other electrical components.
- The scooter can generally be operated at outside temperatures from -10°C to + 45°C.
- Some parts of the scooter tend to be temperature dependent. The controller can only operate in temperatures between -20 °C and 45°C.
- Below -15°C the batteries can freeze and the scooter may not work.
- At extremely high temperatures > 45°C the safety function of the control, which prevents damage to the motors and other electrical components, can lead to slower maximum speeds.
- Surfaces of the power scooter that can come into direct contact with the occupant's skin and/or assistant's skin during normal use and that are within occupant reach shall not exceed 41°C. The motor surface can reach temperatures greater than 41°C after driving. DO NOT touch these parts when disassembling the scooter or wait until the motor is cooled down

Electromagnetic Interference (EMI)

The rapid development of electronics, especially in the area of communications, has saturated our environment with electromagnetic (EMI) radio waves that are emitted by television, radio and communication signals. These EM wave are invisible and their strength increases as one approach the source. All electrical conductors act as antennas to the EMI signals and, to varying degrees, all power scooters and scooters are susceptible to electromagnetic interference (EMI). The interference could result in abnormal, unintentional movement and/or erratic control of the vehicle. The United States Food and drug Administration (FDA) suggests that the following statement be incorporated to the user's manual for all power scooters Power scooters may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy emitted from sources such as radio stations, TV stations, amateur radio (HAN) transmitter, two-way radios, cellular phones and alarm systems of shops. The interference (from radio wave sources) can cause the power scooter to release its brakes, move by itself or move in unintended directions. It can also permanently damage the powered scooter's control system. The intensity of the EMI energy can be measured in volts per meter (V/m). Each powered scooter can resist EMI up to a certain intensity. This is called "immunity level". The higher the immunity level the greater the protection. At this time, current technology is capable of providing at least 20 V/m of immunity level, which would provide useful protection against common sources of radiated EMI.

Following the warnings listed below should reduce the chance of unintended brake release or powered scooter movement that could result in serious injury:

1. Do not turn on hand-held personal communication devices such as citizens band (CB) radios and cellular phones while the powered scooter is turned on.
2. Be aware of nearby transmitters such as radio or TV stations and try to avoid coming close to them.
3. If unintended movement or brake release occurs, turn the powered scooter off as soon as it is safe.
4. Be aware that adding accessories or components, or modifying the powered scooter, may make it more susceptible to interference from radio wave sources (Note: It is difficult to evaluate the effect on the overall immunity of the powered scooter).
5. Report all incidents of unintended movement or brake release to the powered scooter manufacturer and note whether there is a radio wave source nearby.

WARNING! TURN OFF YOUR SCOOTER AS SOON AS POSSIBLE WHEN EXPERIENCING THE FOLLOWING:

- Unintentional scooter movements
- Unintended or uncontrollable direction
- Unexpected brake release

The FDA has written to the manufacturers of power scooters asking them to test new products to be sure they provide a reasonable degree of immunity against EMI. The FDA requires that a powered scooter should have an immunity level at least 20 V/m, which provides a reasonable degree of protection against more common sources of EMI. The higher the immunity level the greater the protection. Your powered scooter has an immunity level of 20 V/m which should protect against common sources of EMI.

	**WARNING!** The driving performance of the scooter can be influenced by electro-magnetic fields.
	**WARNING!** It is recommended to avoid flame or smoking when sitting on the scooter.
	**WARNING!** The seat belt is regarded as a standard device for this scooter.

Technical Specifications

	Model	Freestyler
Weight Limit	Maximum user weight	115 kg
Weights and dimensions	Seat type size	16”
	Length	840mm
	Width	460mm
	Height	770mm
	Folded size	730mm x 460mm x 465mm
	Seat width	400mm
	Seat height	370mm
	Seat depth	320mm
	Back height	220mm
	Weight with battery	23.2 kg
	Weight without battery	21.3 kg
	Battery weight (removable heaviest part)	1.9 kg
	Drive wheel	200mm x 500mm Pneumatic Tire, (8” x 2”)
	Front castor (wheel)	180mm x 40mm Pneumatic Tire, (7” x 1.6”)
	Rear castor (anti-tipper)	Yes
	Turning radius	1000mm
	Wheel base	560mm
	Suspension	None
Electrics	Battery Specifications	13.4 AH Li-ion
	Battery Range	13.9 km
	Charger Type	2 Amp, 100Vac~240Vac, 50~60HZ, Li-ion Charger
	Controller type	Dynamic 50 AMP
	Motor type	180W
Environment	Obstacle Climbing	30mm
	Max safe slope	3°
	Max Speed	6 km/h
	Ground Clearance	30mm
	Expected service life	5 years


770mm
460mm
840mm

Adjustment

Folding out the scooter

	CAUTION! Beware of pinch points when folding and unfolding the scooter.
	WARNING! Turn off the scooter before folding and unfolding the scooter.

Position the scooter with rear wheels and anti-tipper wheels on the ground.

Insert the key into the ignition of the scooter and switch the scooter on. The green button (arrowed below) on the scooter should now be illuminated. Press this for 3 seconds then release the button, and the scooter will automatically fold out. Alternatively, press the green button on the remote. (in case of emergency, press the red button on the rear of the scooter to stop the folding procedure, If this happens, remove the hazard and keep your finger on the green button until the scooter is fully folded out).

Switch off the scooter using the key and lift up the backrest.

Folding up the scooter

The user should vacate the scooter. Folding down the backrest of the seat.

The red button (arrowed below) on the scooter should now be illuminated. Press this for 3 seconds then release the button, and the scooter will automatically fold up. Alternatively, press the red button on the remote. (If case of emergency, press the green button on the rear of the scooter the stop the folding procedure. If this happens, remove the hazard and keep your finger on the red button until the scooter is fully folded up).

Switch the scooter off using the ignition and remove the key. Turn the stand-by on/off switch (located next to the charger port) to the off position.

Checklist before use

Get to know the feel of your power scooter and its capabilities. Cubro recommends that you perform a safety check before each use to make sure your power scooter operates safely.

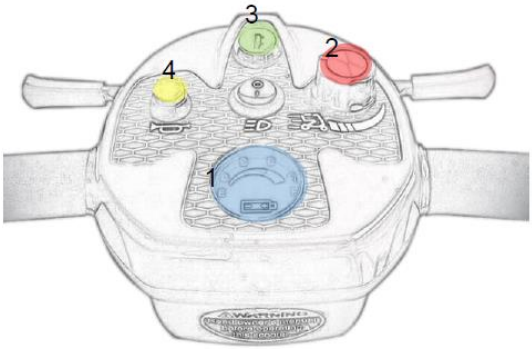
1. If equipped with pneumatic tires, please check for proper tire inflation
2. Check all electrical connections and make sure they are tight and not corroded
3. Check all harness connections and make sure they are secured properly
4. Check the brakes

Operating the Scooter

The power scooter is simple to operate. However, we recommend that you read carefully the following instructions to become familiarized with your new vehicle.

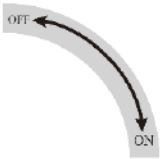
⚠	**WARNING!** Before you turn the power on, be aware of the environment that surrounds you to select your desired speed. For indoor environments we recommend that you select the slowest speed setting.

Button functions



B. Key on

Insert the key and rotate it clockwise to power on the scooter. To turn off the scooter rotate the key anti clockwise.



1. Battery Indicator: When your scooter is switched on, the needle on the meter will move across the scale from the left 'red' sector towards the 'green' sector, indicating the state of charge in your batteries. As the power is used up in your batteries, the needle will slowly towards the 'red' sector indicating the state of charge at that precise time. When the needle is fully over to the right, the batteries are fully charged. When the needle falls towards the red sector, your batteries are losing power, but you will still have power to spare. When the needle falls into the red sector, your batteries are low in power and need to be recharged. It is wise to recharge your batteries when the needle enters the red zone (see Batteries and Battery Charging section of this manual).

2. High/Low Speed Adjustment: This allows you to pre-select your desired speed. The adjuster is proportional to speed and can be set anywhere between minimum and maximum. Turn the adjuster knob counter-clockwise to minimum for a very gentle operation, and clockwise towards maximum to increase your speed.
3. Power ON/OFF Light: The light will turn on if you insert the key. The light will turn off if you take out the key.
4. Horn button: Press this button to sound the horn.(Easy operation for left hand or right hand)

Driving the scooter

Controller ON/OFF Switch

Insert the key to power on the scooter (Remove the key to power off). Swing the finger lever control forward or backward to control the driving direction of the scooter (The finger lever control is located at both sides of the controller and the returning of the finger lever control to its neutral position, (centre), will reduce the speed and stop the vehicle by automatically applying the electro-magnetic brakes

Finger Lever Control/Maximum

Force Applied on Lever is 4N

Speed control

Turn the adjuster knob clockwise towards maximum to increase your speed, and counter-clockwise toward minimum to slow down your speed.

Finger lever control

The finger lever control can also control the speed of your vehicle. The deeper you press on the finger lever (forward / backward), the faster the vehicle will go.

	**WARNING!** In case of emergency, let go of the finger lever control and the vehicle will come to a stop.
	**WARNING!** DO NOT touch the rear shroud while driving. It may be hot.
	After inserting the key into controller ON/OFF port, the light of power ON/OFF will turn on for a few seconds during sell-checking process.
	When the vehicle is in operation, the surface of the charger will become slightly warm.

Control Panel Display

The control panel display is a multifunction visual display. It can provide a lot of information of the vehicle.
When the needle falls into the red sector, your batteries are low on power and need to be recharged. It is wise to recharge your batteries when the needle enters the red zone. The remaining battery needle only goes lower when using the battery, regardless the battery voltage. The remaining battery meter needle goes higher only when recharging battery in progress.
System will power off when the battery voltage is lower than 21.0V.
System will be automatically power-off when the vehicle is not in use over 30 minutes. You need to remove the key and insert the key to restart the scooter.

Electromagnetic Brakes

Your power scooter comes with Electromagnetic Brakes., i.e. an automatic magnetic disc safety brake which is also known as Fail-Safe brake. The electro-magnetic Brakes are automatic and work when the power scooter is ON but in a steady state (i.e. Wigwag is released to the neutral position), even when the scooter is on a slope. The Electromagnetic Brakes will also be set whenever the power scooter is OFF

Thermal Protection

Your power scooter controller is equipped with a safety system called thermal rollback. A built-in circuit monitors the temperature of the controller and motor. In case of excessive heat of the controller and motor, the controller will cut-off the power to allow the electrical components to cool down. Although your power scooter will resume its normal speed when the temperature returns to a safe level, we recommend waiting for 5 minutes before restarting to allow the components to cool down

Battery instructions

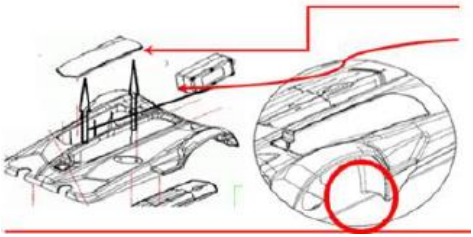
We recommend that you use deep-cycle batteries that are sealed and Maintenance free for your scooter.

General product Information:

The equipment is a Rechargeable Li-ion Battery Pack for use in the scope of information technology equipment.

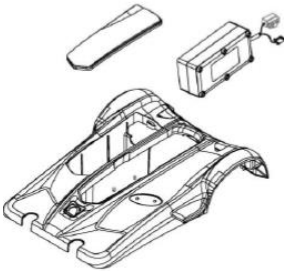
Cell's arrangement:	7S4P
Minimum capacity (Ah):	13.4
Nominal voltage (Vdc)	25.2
Maximum charge current (A):	5
Maximum charge voltage (Vdc):	29.4
Maximum discharging current (A)	20.0
Discharge Cutoff voltage (Vdc):	19.6
Battery mass	1.9kg

Removing the battery box from the scooter:



- Lift the side cover
- Lift the battery box after removing the side cover

Make sure the battery connectors are connected properly after you install the batteries into the power scooter.



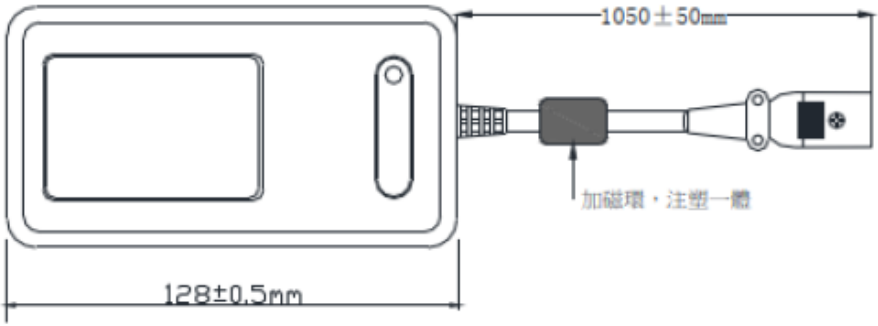
Depending on the use, terrain and driving conditions, the batteries will provide a range of 13.9 KM of travel.
However, even if the power scooter is not in use, we recommend that the batteries are charged periodically.

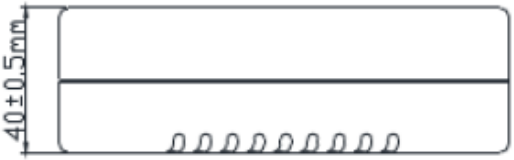
⚠	**WARNING!** Do not use any automotive batteries. They are not designed to handle a long, deep discharge and are unsafe for use in scooter.
ⓘ	The useful life of a battery is quite often a reflection of the care it receives.

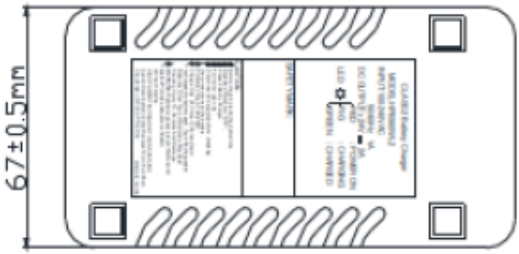
Battery charger

The battery charger takes the standard wall outlet voltage (alternating current) and converts it into DC voltage (direct current). The batteries use direct current to run your scooter. When the batteries are fully charged, the amperage from the charger is almost at zero. This is how the charger maintains a charge but does not over charge the battery.

⚠	**WARNING!** Only use the battery charger type which was provided by the supplier. The use of any different type of charger can be hazardous and need the approval of the manufacturer.
ⓘ	The batteries cannot be charged if they were discharged to nearly zero voltage.

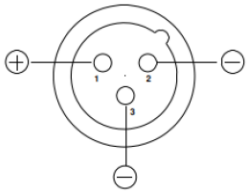

1050±50mm
加磁環，注塑一體
128±0.5mm


40±0.5mm


67±0.5mm


This is charger port
Charger OPEN

DC Connector pin definition



Pin No.	3 PIN
1	Output (+)
2	Output (-)
3	Output (-)

Battery Specifications

Item/Model	HP0060WL2 -24V/2A
Input AC Voltage Range	100Vac～240Vac, 50Hz～60Hz
Output Current	2A±0.2A
No-load	29.05V±0.2V
LED Indications	POWER /ON :RED CHARGING: ORANGE FULLY CHARGED: GREEN
Charge mode	Constant Current, Constant Voltage
Over voltage protection	Yes
Over current protection	Yes
Timer in Pre-charge	2 Hr
Timer in CC-charge	10 Hr
Short circuit protection	Yes
Feedback protection	Yes
Operating Temperature	0℃～40℃
Operating Humidity	20%~85%
Operating Altitude	2000m
Dimensions	L128mm*W67mm*H40mm
Weight	0.35kg
Certificates	cTUVus, TUV, SAA, PSE, CE, FCC, CEC, UKCA, CE-IEC60601

Electrical Characteristics

Input voltage & Frequency:

Input voltage range	100Vac～240Vac
Frequency range	47Hz～63Hz

Efficiency:≥88%.
Input current:≤1.2A
Input leakage current:≤0.75mA.

Output voltage & current

Charge Mode	Output Voltage	Output Current	LED Indications
Ultra low voltage	1.5V~14V±1V	≦0.1A	Orange light flash
Pre charge	14V ~19V±1V	0.5A±0.2A	Orange light on
CC	19V~28V±1V	2A±0.2A	Orange light on
CV	28V~29.05V	Decreasing from2A	Orange light on
Full charged	29.05V±0.2V	0.25A±0.15A	Green light on
No-load	29.05V±0.2V	0A	Red light on

LED Indication

Red light on: Power on, disconnect with the battery
Orange light on: Charging
Green light on: Full-charged

Operating Instruction

1. Make sure the power cord, battery cable, battery terminals are in good condition.
2. Make sure the output voltage of the charger is the same as the voltage of the battery.
3. Connect the connector of battery charger to the connector of battery.
4. Make sure the input voltage is correct and plug into the electrical outlet, normally the LED (orange) light will turn on when it is charging.

Troubleshooting

RED light is off when power on.	Check if the input power cord of the charger has been plugged into the socket, and if there have electricity passes from the outlet, if yes; please send the charger for repair.
ORANGE light is off during charging.	Check if the charger and battery connectors are correctly connected, if they are in good connection, and the battery is not fully charged, the battery maybe defective.
ORANGE light does not turn Green.	The battery can not be charged, please remove the battery and check to see if the battery is still useable.
ORANGE light turns Green immediately.	Check to see if the battery is fully charged, if not, the charger maybe defective, please send the charger back to the manufacturer for repair

Battery Safety Precautions

- Switch off the power supply before removing the charger from the battery
- Do not get close to explosive gases or sparks
- Always charge your batteries in a well ventilated area
- Use the charger only with 24V Li-ion batteries
- The charger is intended for indoor use only. Protect if from moisture
- If the scooter will not be used for a long period of time, arrange to have the batteries recharge at least once every month to avoid deterioration of the batteries.
- Chargers are selected specifically for particular applications and matched to the type and size of specific batteries. In order to charge your scooter safely and efficiently, we recommend use of the charger supplied as original equipment with your product only
- According to the battery type and condition of the batteries, batteries usually can be fully charged in 4-10 hours. This will be indicated when the status light in the battery charger side panel turns green. Charging the battery longer than necessary will not harm the battery.
- It is recommended that you charge the batteries for 8 to 10 hours after daily use. Do not charge the batteries for more than 24 hours.
- Always keep the battery terminals clean otherwise the charging condition will be poor.
- DO NOT add strong shock of drop the battery. Continue from use immediately
- DO NOT throw the battery into fire, not heat the battery
- DO NOT disassemble nor modify the battery pack
- DO NOT leave the battery in a place with high temperatures (45°C or more)
- DO NOT immerse the battery in water, or leave in high moisture
- DO NOT solder lead directly to the battery body
- DO NOT heat nor solder the terminals of the battery
- When equipment is not in use for a long time, disconnect batteries from the equipment.
- DO NOT operate this scooter with depleted batteries since the occupant could be stranded.
- DO NOT open the battery box

	The battery circuit diagram is labelling on the frame. Refer to this diagram before assembling the battery.

	**WARNING!** Always replace both batteries at the same time. Please do not mix old and new batteries together.

Storage

The scooter should be stored in a dry place, free from temperature extremes. When storing, disconnect the batteries from the scooter. If you fail to store the unit properly, the frame can rust and the electronics can be damaged.

	**WARNING!** Remove the battery package from the scooter unit before long term storage.

- Disconnect the batteries from the scooter before storage
- Batteries that are regularly and deeply discharged, infrequently charged, stored in extreme temperatures, or stored without a full charge may be permanently damaged, causing unreliable performance and limited service life.
- It is recommended that you fully charge the batteries prior to storage and charge the batteries periodically throughout periods of prolonged storage to ensure proper performance
- You may wish to place several boards under the frame of your scooter to raise it off the ground during periods of prolonged storage.
- Avoid storing your power scooter where it will be exposed to temperature extremes. Store in a warm, dry environment. Operating conditions (-10°C ~ +45°C) and Storage conditions (-40Â°C~+65°C)
- Make sure the batteries are fully charged before use after long term storage

Maintenance

	**WARNING!** ONLY qualified personnel should carry out scooter maintenance.
	**WARNING!** Regular maintenance of scooter and accessories is necessary to ensure proper operation.
	**WARNING!** Do not modify your scooter in any way not authorized by Cubro. Do not use accessories if they have not been tested or approved for this scooter. Changing of controller parameter shall be only performed by authorized technicians due to the safety concern.

Maintenance Schedule

Your scooter is designed for minimal maintenance. However, like any motorized vehicle it requires routine maintenance. To keep your scooter for years of trouble-free operation, we recommend you follow the following maintenance checks as scheduled.

Daily Checks

- Visual check on the conditions of tires.
- Inspect the battery condition meter on the controller to determine if batteries need to be charged.
- Visually inspect the tire tread. If less than 1mm (1/32”), please have your tires replaced by Cubro.
- All moving mechanism will benefit from simple lubrication and inspection. Lubricate using petroleum jelly or light oil. Do not use too much oil, otherwise small drips could stain and damage carpets and furnishings etc.
- Always perform a general inspection of the tightness of all nuts and bolts

Monthly Checks

- Visually inspect the controller harnesses. Make sure that they are not frayed, cut or have any exposed wires.

Six monthly checks

- Check the motor brushes. We recommended that Cubro inspect the brushes every six months or sooner if your power scooter is not operating smoothly. If inspection determines excessive wear on the brushes, they must be replaced or motor damage will result.

	**WARNING!** If faults are found during any inspection remove from use immediately.

Tire inflation

- If your scooter is equipped with pneumatic tires, it is necessary to check the air pressure at least once a week
- Proper inflation pressures will prolong the life your tires and ensure the smooth operation while riding
- Inflating your tires from an unregulated air source could over-inflate them, resulting in a burst tire

Servicing

For any servicing, maintenance and troubleshooting queries, please contact the Cubro Service Department:

Phone 0800 656 527 +64 7 578 7228
Email sales@cubro.co.nz
Website cubro.co.nz
Address 149 Taurikura Dr, Tauriko, Tauranga NZ

	**WARNING!** Do not make any changes or modifications to this product without consultation from Cubro

Cleaning and Disinfection

- Make sure to keep the controller clean while protecting it from rain or water.
- Use a damp cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of your power scooter. Avoid using products that may scratch the surface of your power scooter.
- Never hose off your scooter or place it in direct contact with water.
- Keep wheels free from lint, hair, sand and carpet fibres.
- All Upholstery can be washed with warm water and mild soap. Occasionally check the seat and back for sagging, cuts and tears. Replace if necessary. Do not store your scooter in damp or humid conditions as this will lead to mildew and rapid deterioration of the upholstery parts.
- If necessary, clean your product with an approved disinfectant. Make sure the disinfectant is safe for use on your product before application. Follow all safety instructions for the proper use of the disinfectant and/or cleaning agent before applying it to your product. Failure to comply may result in skin irritation or premature deterioration of upholstery and/or power scooter finishes.

Troubleshooting

Dynamic 50 AMP CONTROLLER: Your power scooter is fitted with DYNAMIC controller, which continuously monitors the operating conditions of your scooter. If it detects a problem, it will indicate with an error message by flashing light on the power ON/ OFF light. You must count the number of the flash, and see the list to check what kind of error has happened according to the number)

If, when powered up, there is an error with the system, then the status indicator will flash red. The number of flashes will indicate the type of error.

These are described in the table below.

FLASH	DESCRIPTION	MEANING
1	Battery low	Recharge the batteries.
2	Low battery fault	The batteries have run out. Recharge the batteries. Check the battery and associated wiring.
3	High battery fault	Battery voltage is too high. Due to overcharging or steep descent. Reduce speed if travelling down a slope.
4	Time out or controller too hot	The scooter may have stalled. Leave the scooter off and wait for a few minutes. Check motor is not faulty.
5	Park brake fault	Check the scooter is not in freewheel mode. Check park brake and wiring.
6	Drive inhibit	Out of neutral at power up and battery charge connected. Release wigwag paddle and remove charger. Wigwag may require recalibration.
7	Speed Pot Fault	Check speed pot and throttle pot are not faulty.
8	Motor voltage fault	Check the motor, connectors and wiring are not faulty
9	Other error	Check all connections and wiring. Possible controller fault.

Note:

If you experience any technical problems, it is recommended that you check with Cubro before attempting to troubleshoot on your own.

The following symptoms could indicate a serious problem with your power wheelchair. Contact Cubro if any of the following arises:

1. Motor noise
2. Pulling to one side
3. Frayed harnesses
4. Bent or broken wheel assemblies
5. Cracked or broken connectors
6. Does not power up
7. Uneven wear on any of tires
8. Powers up, but does not move
9. Jerking motion

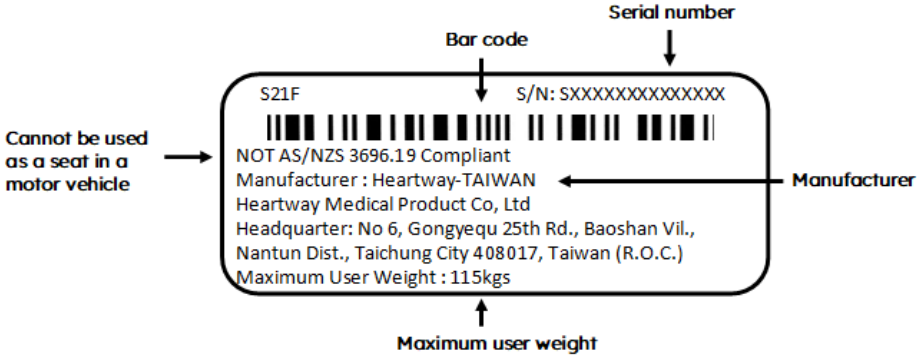
	If problems persist following the above remedial procedures, please contact Cubro.

Safety Labels

Labels used on the scooter and their meanings

The following symbols are used on the scooter to identify warnings, mandatory actions and prohibited actions. It is very important that you read and understand them completely.

Manufacturers Nameplate:



	EMC compliance		
	Warning. NOT AS/NZS 3696.19 COMPLIANT Does not meet the ISO 7176-19 standard and cannot be used as a seat in a motor vehicle.		
	Devices for decommissioning the drive system Warning: the drive system should be re-engaged before an occupant is left unattended or attempts to operate the wheelchair/scooter.	CE	CE mark, European Conformity

Disposal

This product may contain substances that could be harmful to the environment if disposed of in places (landfills) that are not appropriate according to legislation. Please be environmentally responsible and recycle this product through your recycling facility at its end of life.

Your power scooter must be disposed of according to applicable local and national statutory regulations. Contact your local waste disposal agency for information on proper disposal of power scooter packaging, metal frame components, plastic components, electronics, batteries, neoprene, silicone, and polyurethane materials.

Warranty

Cubro Ltd warrants the product to be free from defects in materials and workmanship from the date of purchase for a period of 2 years (frame), 1.5 years (Controllers), 1 year (electronic components and charger). The following items are not covered by warranty:

Motor brushes - Wheel Tires - Arm Pads - Seat Cushion - Fuses / Bulbs - T tiller Cover - Rear Shroud - Front Shroud - Batteries and Consumable parts.

Any damage or defect of any nature occurring from the misuse, abuse of the product, improper operation or improper storage is not to be covered.

Please refer to cubro.co.nz for terms and conditions.

For extra copies of this user guide or for a different format, please contact Cubro.

28 Nov 24