



C.T.M. MOBILITY SCOOTER

HS-926 Instruction Booklet



TABLE OF CONTENTS

01.INTRODUCTION	1
02.IMPORTANT PRECAUTIONS	
2-1 BEFORE DRIVING SCOOTER.....	2
2-2 CAUTIONS WHEN DRIVING.....	3
2-3 GENERAL SAFETY INFORMATION FOR SCOOTER	4
2-4 CAUTIONS WHEN DRIVING ON INCLINES	5
2-5 CAUTIONS WHEN CLIMBING	5
2-6 ELECTROMAGNETIC INTERFERENCE AND WARNINGS.....	6
03. BASIC INTRODUCTION	
3-1 SAFETY WARNING AND INSTRUCTION LABELS	8
3-2 EQUIPMENT INTRODUCTION	9
04.OPERATION PANEL AND LED DISPLAY INSTRUCTIONS	
4-1 OPERATION PANEL	11
4-2 LED PANEL SETTINGS	12
05.OPERATION OF SCOOTER	
5-1 BASIC OPERATION.....	16
5-2 FREE-WHEELING (N-D LEVER).....	18
5-3 SAFETY SPEED CONTROL.....	18
5-4 FIXED HOOKS	18
06.CHARGING THE BATTERIES	
6-1 CHARGING OPERATION	19
6-2 CHARGING PRECAUTIONS	20
07.DISASSEMBLY INSTRUCTIONS	21
08.MAINTENANCE AND TROUBLESHOOTING INSTRUCTIONS	
8-1 BASIC MAINTENANCE	23
8-2 INSPECTION PLAN	24
8-3 FAULT DIAGNOSIS.....	25
09.OPTIONS	27
10.TECHNICAL SPECIFICATIONS.....	28

1.INTRODUCTION

Thank you and congratulations on purchasing your new C.T.M. Mobility Scooter. It is designed to provide you with transportation ability indoors and outdoors.

We pride ourselves on providing safe and comfortable products. Our goal is to ensure your complete satisfaction with our product. We are certain that you will enjoy your C.T.M. mobility scooter.

Please read and observe all warning and instruction provided in the owner's manual before operating this scooter. Also, retain this booklet for future reference.

In case of a serious incident with the product, you should inform the manufacturer and the competent authority in your country.

If you have any questions, you can contact:



CHIEN TI ENTERPRISE CO., LTD.

No. 13, Lane 227, Fu Ying Rd., Hsin Chuang Dist.,
New Taipei City, Taiwan, R.O.C.

Tel : +886-2-2903-2987 Fax : +886-2-2903-8807

E-Mail : sales@chienti.com.tw [http : //www.chienti.com.tw](http://www.chienti.com.tw)

Information of European Representative :



MedNet EC-REP GmbH

Borkstrasse 10, 48163 Muenster, Germany

2.IMPORTANT PRECAUTIONS

2-1 BEFORE DRIVING SCOOTER

- Before taking the first trip with mobility scooter, you should familiarize yourself well the operation of mobility scooter and with the operation elements. Please take your time to read this introduction booklet.
- Before driving, please evaluate the personal condition, and fully understand the operation of mobility scooter.
- You should not assemble, maintain, and operate the mobility scooter before you read this instruction booklet.
- Observe and obey all pedestrian rules and regulations in which you are riding.
- Mobility device may only be used on the traffic routes for which it is approved in accordance with the relevant national legislation.
- Always be aware of pedestrians and situations which might require extra care when using your scooter on public walk ways and footpaths.
- Do not drive your scooter if you are under the influence of alcohol or medication that may affect your ability.
- Try not to drive scooter at night.
- Turn the key off before getting on or off (see section 4-2 main key switch).
- **Practice Tips**
 - If you are new to drive a scooter, it is a good idea to practice in a clear, safe space on a sound level surface. (I.e. Park, Playground).
 - Basic functions to practice : Wig wag accelerate /Wig wag release / Stop / Reverse / Turn / Ramp proceeding.
 - Set the speed control to its lowest speed, slightly increase the speed when you are getting familiar with the scooter. (section 4-2 speed dial knob)



- Do not turn the power on before you get in and sit securely on the seat.
- Be certain that the power is turned off when get in, get out. This will eliminate the possibility of accidentally activating the wigwag controls and causing injury.
- Keep your weight toward the middle of the deck. Putting most or all of your weight on the edge of the deck may cause an unstable condition.
- Only one person at a time could ride a C.T.M. Mobility Scooter. Do not carry passengers under any circumstances.



- Please observe all relevant rules and regulations pertaining to pedestrians and road users, at all times when you are driving the scooter.
- Practice operating your scooter in the presence of an attendant. Remember that only with practice will you become a competent driver. Practice these basic functions until you feel that you have control of your scooter.

2.IMPORTANT PRECAUTIONS

2-2 CAUTIONS WHEN DRIVING

- Please do the daily check before your journey always. (See section 8-1 Daily check.)
- Do not stretch your body out on the scooter
- Please make sure your safety when crossing the level crossing.
- Do not use the mobile phone and wireless mobile devices. (See section 2-6 EMI and warnings)
- Do not use the batteries of mobility scooter to charge any other electric devices, expect the accessories from original manufacturer.
- Do not drive on slope over the limit. (See section 10 Technical specification curb climbable)
- Do not drive to across the obstacle over the limit. Please bypass. (See section 2-5 Cautions when climbing)
- Do not attempt to drive the scooter under below hazardous road condition. If necessary, please drive it in the presence of an attendant :
 - Dark, bad weather such as in rain, snow, mist, storm, and poor visibility.
 - Narrow paths, level crossing, and uneven terrain.
 - Wet grass, sand, gravel, or any other potentially hazardous condition.
- Ensure that the lights of scooter are turned on while driving at night or in poor visibility.
- Please stop operating the scooter if the batteries have drained, continuous operation may damage the scooter.
- For maximum stability, lean forward in your body while proceeding up ramps, inclines, curbs, or any low rise. (please refer to following picture)

On flat road



Normal flat road driving pose.

On slope



Leaning forward during slope conditions enhances stability.



- Always follow the local pedestrian traffic rules when riding outside.
- When turning, reduce your speed and maintain a stable center of gravity. This greatly reduces the possibility of a tip or fall.

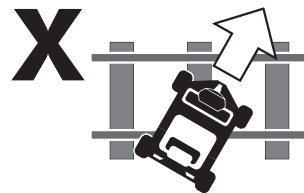
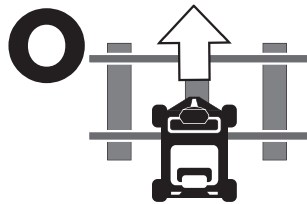


- Reduce speed when descending to prevent any danger. Increase speed when ascending (See section 4-2 speed dial knob)
- Do not turn off the power while driving.
- Do not attempt to have your scooter climb or descend an obstacle that is inordinately high. This may cause the scooter to tip.

2.IMPORTANT PRECAUTIONS



- Do not attempt to use your scooter on an escalator.
- Do not make sharp turns while driving. This may cause the scooter to tip.
- Never place the scooter in freewheel mode when on any sort of an incline or decline. When the scooter is parked, the lever for engaging and disengaging the motors must be locked firmly into the "DRIVE" position.
(See section 5-2 Free-wheeling (N-D lever))
- Cross the railroad crossing, make sure the wheels pass the rail at 90degree angles, avoid scooter stuck on railroad crossing.



- When descending an incline, use the slowest speed possible. If the descent is faster that you desire, release the throttle lever to stop the scooter. Then press the throttle lever slightly to control the speed.

2-3 GENERAL SAFETY INFORMATION FOR SCOOTER

- Batteries should be fully charged before using for maximum performance and longevity.
(see section 6-1 charging operation)
- The maximum load of the scooter is 136kg. Do not exceed the maximum permissible load. Exceeding the max.weight rating may result in injury to yourself.
- The mobility device is only designed for use by a single occupant whose maximum weight does not exceed the maximum permissible load of the device.
- Never use the mobility device to transport more than one person (including children).
- Do not attempt to carry out maintenance work that is not described in this user manual.
- Do not change, modify, remove any parts from products especially safety protected parts such as anti-tips.
- Completely deflate the tires (air tires) before dismantling the rim or attempting.



- Materials and assemblies of scooter is flame resistant.
- Avoid exposure the scooter to rain, snow, ice, salt, or standing water whenever possible. Maintain and store in a clean and dry condition. Any direct contact with water can cause damage to the scooter and electrical system or rust to the frame.
- Do not remove the anti-tip wheels or modify your scooter in any way that is not authorized.
- Only use the chargers, accessories, or components supplied as original equipment with your scooter supplier.
- Immediately stop using the scooter if you encounter a problem with scooter. Turn off the power and contact dealer for further checking.
- Please pay more attention when driving the scooter, the emergency stop may encounter.

2.IMPORTANT PRECAUTIONS

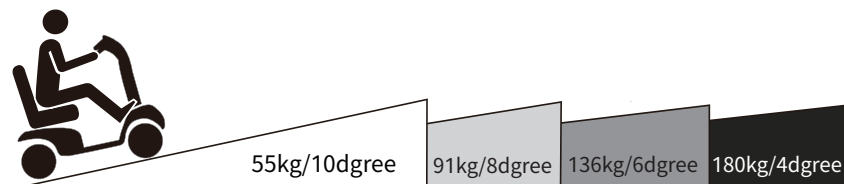


Antistatic Measures:

1. Maintain indoor humidity above 50% to avoid excessive dryness.
2. Riders should stay adequately hydrated.
3. Apply moisturizing lotion to hands to enhance skin hydration.
4. Choose cotton clothing to prevent static electricity between the body and clothes.
5. Choose shoes with plastic soles to reduce static charge acation.

2.4 CAUTIONS WHEN DRIVING ON INCLINES

- The scooter has been rated to a maximum climbable height, obstacle height, and gap. (See section 2-5 Cautions when climbing and 10 Technical specifications)
- Never drive on a slope that exceeds the rated slope.
- The weight capacity limit at different ramp degree (please refer to following picture).



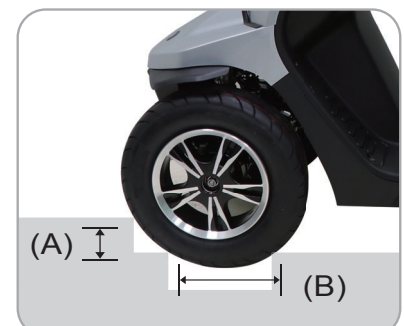
- Your scooter's ability to travel up inclines is affected by your weight, your scooter's speed, your angle of approach to the incline, and your scooter setup.
- Please avoid driving on a long ramp or any uneven terrain to prevent any danger from motor defected.
- The batteries voltage normally will go up when driving on descending road. If the battery voltage becomes too high, the over-voltage protection will be activated by slowing the speed till the scooter stops. Please pull over the scooter to the safe area, release the wigwags and restart the scooter again.



- When driving down a ramp or uneven terrain, keep the scooter's speed adjustment set to the slowest speed setting to ensure a safely controlled driving.
- If the speed is too fast, release the throttle control lever, let the scooter stop. When you feel that you again have control of your scooter, push the throttle control lever forward and continue safely driving.
- To prevent any danger, do not turn around at high speed on ascending, descending ramp.

2-5 CAUTIONS WHEN CLIMBING

- The maximum height of obstacle and curb that scooter can climb is up to 10 cm with run-up (A).
- The maximum gap that scooter can drive over is 15 cm (B).
- Always overcome obstacles straight on at 90 degrees, in one stroke, do not stop halfway! Firstly, make sure the front wheels of the scooter is perpendicular to the obstacle, approach the obstacle slowly until the front wheels touch the obstacle, increase the speed and ensure that the front wheels and rear wheels have moved over the obstacles, and then you may reduce the speed.
- When driving scooter on ramp, adjust body center of gravity for scooter stability.



2.IMPORTANT PRECAUTIONS



Never attempt to overcome an obstacle when on an uphill or downhill gradient or it may increase the chance of tipping!

Adjust the seatback into an upright position before climbing an obstacle, or it may increase the chance of tipping!

2-6 ELECTROMAGNETIC INTERFERENCE AND WARNINGS



It is very important that you read this information regarding the possible effects of Electromagnetic Interference on your mobility scooter.

Mobility scooters may be susceptible to electromagnetic interference (EMI), which is interfering electromagnetic energy (EM) emitted from sources such as radio stations, TV stations, amateur radio (HAM) transmitters, two-way radios, and mobile phones. The interference (from radio wave sources) can cause the mobility scooter to release its brakes, move by itself, or move in unintended directions. It can also permanently damage the mobility scooter control system. The intensity of the interfering EM energy can be measured in volts per meter (V/m). Each mobility scooter can resist EMI up to certain intensity. This is called its "immunity level." The higher the immunity level, the greater the protection. At this time, current technology is capable of achieving at least a 20 V/m immunity level, which would provide useful protection from the more common sources of radiated EMI. The immunity level of this mobility scooter model is not known.

There are a number of sources of relatively intense electromagnetic fields in the everyday environment. Some of these sources are obvious and easy to avoid. Others are not apparent and exposure is unavoidable. However, we believe that by following the warnings listed below, your risk to EMI will be minimized.

The sources of radiated EMI can be broadly classified into three types :

1.Hand-held portable transceivers (transmitters-receivers) with the antenna mounted directly on the transmitting unit. Examples include: citizens band (CB) radios, "walkie talkie," security, fire, and police transceivers, mobile phones, and other personal communication devices.



Some mobile phones and similar devices transmit signals while they are ON, even when not being used

2.Medium-range mobile transceivers, such as those used in police cars, fire trucks, ambulances, and taxis. These usually have the antenna mounted on the outside of the vehicle; and

3.Long-range transmitters and transceivers such as commercial broadcast transmitters (radio and TV broadcast antenna towers) and amateur (HAM) radios.



Other types of hand-held devices, such as cordless phones, laptop computers, AM/FM radios, TV sets, CD players, and cassette players, and small appliances, such as electric shavers and hair dryers, so far as we know, are not likely to cause EMI problems to your mobility scooter.

Mobility Scooter Electromagnetic Interference :

Because EM energy rapidly becomes more intense as one move closer to the transmitting antenna (source), the EM fields from hand-held radio wave sources (transceivers) are of special concern. It is possible to unintentionally bring high levels of EM energy very close to the motorized scooter control system while using these devices. This can affect mobility scooter movement and braking. Therefore, the warnings listed below are recommended to prevent possible interference with the control system of the mobility scooter.

2.IMPORTANT PRECAUTIONS

Warnings :

Electromagnetic interference (EMI) from sources such as radio and TV stations, amateur radio (HAM) transmitters, two-way radios, and mobile phones can affect mobility scooters. Following the warnings listed below should reduce the chance of unintended brake release or motorized scooter movement which could result in serious injury.

- 1.Do not operate hand-held transceivers (transmitters-receivers), such as citizens band (CB) radios, or turn ON personal communication devices, such as mobile phones, while the mobility 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 motorized scooter OFF as soon as it is safe;
- 4.Be aware that adding accessories or components, or modifying the mobility scooter, may make it more susceptible to EMI; and
- 5.Report all incidents of unintended movement or brake release to the distributor listed on the inside front cover of this manual. Note whether there is a source of EMI nearby.



There is no easy way to evaluate their effect on the overall immunity of the motorized scooter.

Important Information :

- 1.20 volts per meter (V/m) is a generally achievable and useful immunity level against EMI (as of May 1994). The higher the level, the greater the protection.
- 2.The immunity level of this product is at least 20/Vm.

3.BASIC INTRODUCTION

3-1 SAFETY WARNING AND INSTRUCTION LABELS



————— Stick on the outside

----- Stick on the inside

①



Warning Sticker

1. Please read the Instruction Booklet carefully before using your scooter.
2. Do not drive the scooter on slippery surfaces or on slopes over 6°~10°
3. Do not drive on highways, crowded roads, or unfamiliar areas.
4. Do not turn at high speed in either forward or reverse.
5. Do not wash with water or leave scooter in a humid environment since water can damage the electric parts.
6. Always re-engage the emergency freewheel device after use.
7. Always switch off the scooter before dismounting or rotating the seat.

⑤



Safety Hook Label

Do not sit or stay on the scooter during transporting.

⑥



N-D Lever Adjustment Label

Which instructs freewheel mode operation.(see section 5-2)

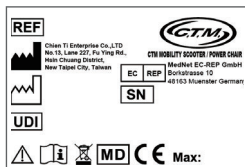
⑦



Power Off Indication

Indicates the location to disconnect the battery

⑧



- | | |
|--|--|
| UDI Unique Device Identification, UDI | WEEE Conformity |
| SN Serial Number | EC REP EU Authorized representative |
| REF Model Number | MD Medical Device |
| Date of Manufacture | CE European Conformity |
| Manufacturer | Consult Instructions for Use |
| Warning | Max: Maximum weight capacity |

②



Charge Port Cap Label (section 6-1)

③



The product needs to be tied down at indicated anchor points with a lashing system during transport.
Do not use this device as a seat during transport

⑨



Wiring Diagram Label

④



Warning Label Keep hands away

3.BASIC INTRODUCTION

Before attempting to drive this scooter on your own, it is important that you familiarize yourself with the controls, and how to operate them.

Intended use : The C.T.M. Mobility Scooters provide a means by which a disabled occupant i.e. a disabled person or a person not having the full capacity to walk unaided to have mobility and the freedom to travel.

Indication : The occupant is a person who requires a mobility scooter due to current or anticipated mobility limitations. The C.T.M. Mobility Scooters are intended to be applicable to at least 50% of adult users, based upon the body size of adult users within the range 50th percentile adult female to 50th percentile adult male the abilities and with vary in weight.

Contra-indications : None known.

3-2 EQUIPMENT INTRODUCTION



Item		Function	Item	
1	Rear Mirror	Adjustable-angle driving aid	8	Armrest
2	Emergency Hand Brake	Help slow down and brake(see section 5-1)	9	Seat
3	Tiller Angle Adjustment Lever	Adjust tiller angle (see section 5-1)	10	Seatback Adjustment Handle
4	Seat Forward-back Adjustment Knob	Adjust seat (see section 5-1)	11	Seat Recline Lever
5	Headlight	Night illumination (see section 4-2)	12	Side Reflector
6	Daytime Running Light(OPTIONS)	Increase visibility during daytime driving (see section 4-2)	13	Tie-Down Hooks
7	Turns Signal / Hazard Light	For warning (see section 4-2)		

(Actual specifications subject to the actual vehicle.)

3.BASIC INTRODUCTION

3-2 EQUIPMENT INTRODUCTION

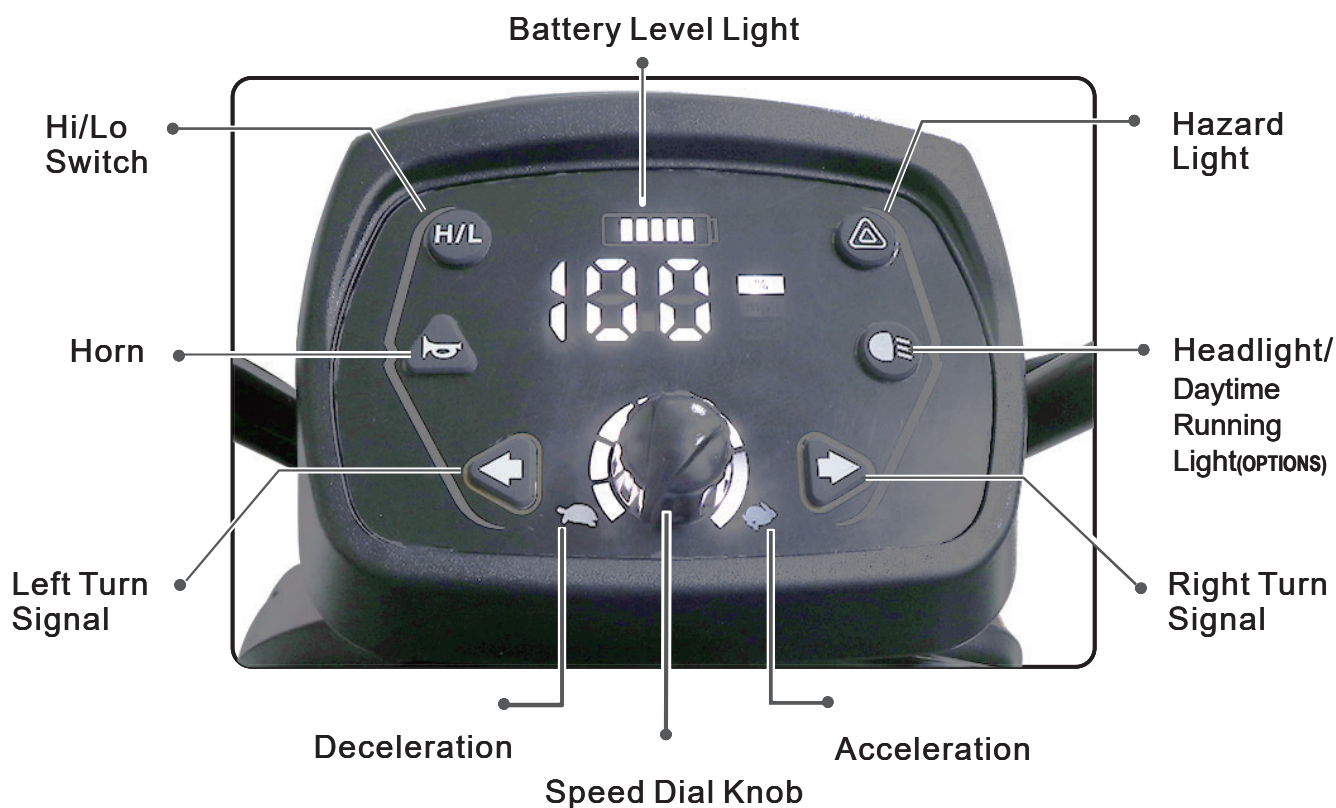


Item		Function		Item		Function	
13	Control Panel	See section 4-1	20	Brake Light		Solid red light on for 5 seconds	
14	Handle Bar	Control the direction of scooter		Hazard Light		Flashing	
15	Charging Port	See section 6-1		Turning signal light		Left / Right light flashing	
16	Bag Hook	Weight capacity: 1kg	21	N-D Lever		See section 5-2	
17	Front Storage Compartment	Storage space	22	Rear Reflector		Reflective warning effect.	
18	Throttle Level	Forward/Back control lever (see section 5-1)	23	Anti-Tipper		Reduce the risk of scooter overturning.	
19	Key Switch	See section 4-1					

(Actual specifications subject to the actual vehicle.)

4.INTRODUCTION & OPERATION OF CONTROL PANEL

4-1 OPERATION PANEL (DASHBOARD)



Button Name		Operation
	Hazard Light	Press the Hazard lights button once to switch on, press again to switch off.
H/L	Hi / Lo Switch	Press H / L Speed button once to switch High / Low mode.(Hi / Lo speed will vary depends on your current speed settings.)
	Left Turn Signal	Press the turn signal button once to switch on, press again to switch off (switches itself off automatically after 30 seconds)
	Right Turn Signal	Press the turn signal button once to switch on, press again to switch off (switches itself off automatically after 30 seconds)
	Horn	Press horn button once to sound short warning tone. Deep press for long warning tone until button released.
	Headlight	Press the headlight button to turn on the headlight, [OPTIONS FUNCTION] : and press again to switch to daytime running light.

4.INTRODUCTION & OPERATION OF CONTROL PANEL




4-2 LED PANEL SETTINGS

● Main Key Switch :

- Turn the key clockwise - power on.(Fig 1)
- Turn the key counterclockwise - power off.(Fig 1)
- After turn on the main power, the LED panel will light up fully for 2 seconds before enterin operation mode.(Fig 2)



● LED panel Indicator Guide

- Press [**H/L**] button to change low-speed mode ; the light next to the button will light up.
- Press [] button to activate the turn signals; the light next to the button will light up, and the turn signals will flash.
- Press [] button to switch to headlight mode; the light next to the button will light up. (Fig 3)
- Press [] button to open hazard lights; the lights next to the left and right direction buttons will flash, and the tail light will blink.

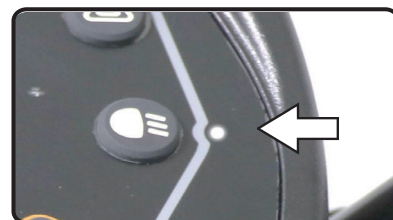





Figure 3

● Speed Dial Knob

- Clockwise rotation is 'high speed' []; counterclockwise rotation is 'low speed' [] (Figure 4).
- When riding downhill, please ride at 'low speed' [].

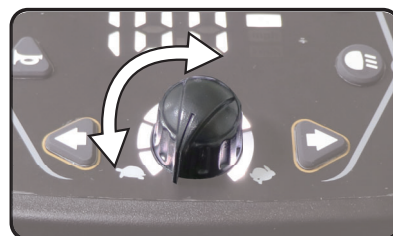


Figure 4


● H/L High-Low Speed Switching Instructions

- Low-Speed Mode: Press [H/L] button. The LED will light up, and the travel speed will be reduced to half of the original speed.
- Full-Speed Mode: Press the [H/L] button again. The LED will turn off, and the travel speed will return to the original speed.



Figure 5



- After stopping the electric scooter, please ensure to turn off the main power (OFF) to avoid wasting electricity.
- During operation, it is strictly prohibited to turn off the main power (OFF) of the electric scooter key, as it may cause sudden emergency braking and stop, posing a danger.
- For the first time driving and starting, please turn the dial to [] to avoid accidents and danger.

4.INTRODUCTION & OPERATION OF CONTROL PANEL

● Operation Mode

- When scooter is in motion, the LED panel indicator displays the speed (km/h).(Fig 6)
- When scooter is stop,the LED panel indicator switches to display battery level (%). (Fig 7)



Figure 6




Figure 7



● Sleep Mode

- After power on, if there is no operation for a long time (15 minutes), scooter will enter sleep mode. The control panel will shut off, and the scooter will be inoperable.
- When entering sleep mode, the scooter will emit a long beep to remind you.
- Wake-up method: restart the main power to return the operation mode.



● Headlight/Daytime Running Light(OPTIONS) Instructions

- Turn on the headlight: press button [], the headlight and indicator LED will light up.
- Optional function:After power on, the daytime running light illuminate by default.

● Turn Signals Instructions

- Press button [], an alert sound will play, the indicator LED will light up, and the left turn signal will flash. Press it again to turn off.
- Press button [], an alert sound will play, the indicator LED will light up, and the right turn signal will flash. Press it again to turn off.

Note: After turn on the left/right turn signal, it will flash for 30 seconds and then turn off automatically.

- Press button [],an alert sound will play,both left and right turn signals will flash. Press again to turn off.
- During []operation, when the main power is OFF or in sleep mode, the warning lights continue to flash, while other functions are disabled.





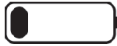


- When there is a trouble (short circuit) in the front/rear turn signals, the flashing frequency of the turn signals increases.

4.INTRODUCTION & OPERATION OF CONTROL PANEL

● Battery Gauge :

- Please refer to the following power indicator table based on the actual power level.

Status Display					
Capacity (%)	80~100	60~80	40~60	20~40	<20






Low Battery warning :

- Warning Condition : The low battery warning will be activated once the battery level is less 25% of max capacity.
- Warning Sound : BeBe -- BeBe -- BeBe
- Recharge the scooter immediately when the battery level drops to 20% as the remaining power can only keep scooter going for buffering 3km or less.



Please note that the driving range of the scooter is influenced by the battery discharge rate. This depends on several factors such as environmental temperature, road conditions, tire pressure, rider weight, driving conditions (including slopes), and the use of lighting systems (if installed). We recommend testing your scooter's range under various conditions to ensure a safe journey.

● Switch "km/h" or "mph"

1. Make sure the power is turned off (OFF).
2. Press and hold both the [H/L] button and the [] button at the same time, then turn the key to power on.
3. After 2 seconds, the setup indicator LED will start flashing. Release the [H/L] button and the [] button within 10 seconds to enter setup mode. (Fig 8-1)
4. Press the [] button or the [] button to select km/h (Fig 8-1) or mph (Fig 8-2) mode.
5. Hold down the [H/L] button and the [] button for 2 seconds or leave idle for 10 seconds without pressing any buttons to exit setting mode and return to operational mode.

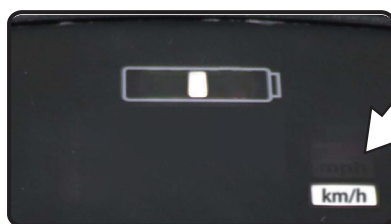


Figure 8-1



Figure 8-2

4.INTRODUCTION & OPERATION OF CONTROL PANEL

● Alert Sound Settings

Setting mode

1. Make sure the power is turned off (OFF).
2. Press and hold both the [◀] button and the [▶] button at the same time, , then turn the key to power on.
3. After 2 seconds, the setup indicator LED will start flashing. Release the [◀] button and the [▶] button within 10 seconds to enter setup mode.(Fig 9-1)
4. Select the function you want to adjust, then press the corresponding volume setting button to enter adjustment mode (Fig 9-2). The LED panel will show the set volume level and play the selected volume sound. Use the left and right arrow keys to adjust to the desired volume.
5. Press [◀] to decrease the volume, or press [▶] to increase the volume.
6. Hold down the [◀] button and the [▶] button for 2 seconds or leave idle for 10 seconds without pressing any buttons to exit setting mode and return to operation mode.

Function	Volume Setting	Default	Volume Control Instruction
Reverse warning sound	[🔊]	4	5 → Loud 4 → Medium 3 → Low 2 → Very Low 1 → Off
Low battery warning sound	[H/L]	1	
Turn signal warning sound	[↔]	4	
Parking light warning sound	[⚠]	4	



Figure 9-1



Figure 9-2



Do not turn off the horn volume to prevent danger.

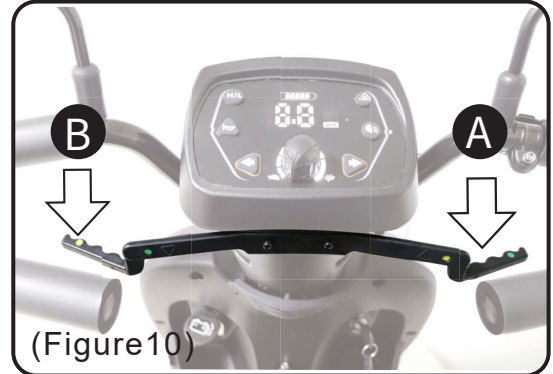
5. OPERATION OF SCOOTER

5-1 BASIC OPERATION

● Throttle Level

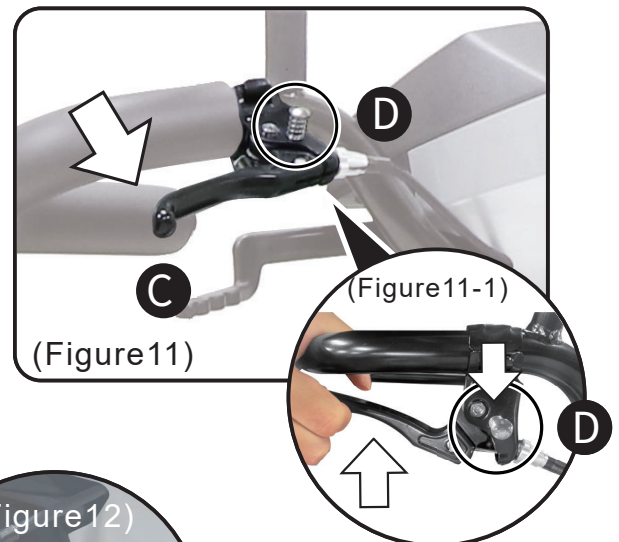
- Pull "Throttle Level" **A** to move forward. (Fig10)
- Pull "Throttle Level" **B** to reverse. (Fig 10)
- Can be set on both sides.

When the throttle level is completely released, the scooter slows down to stop, and the brake light illuminates.



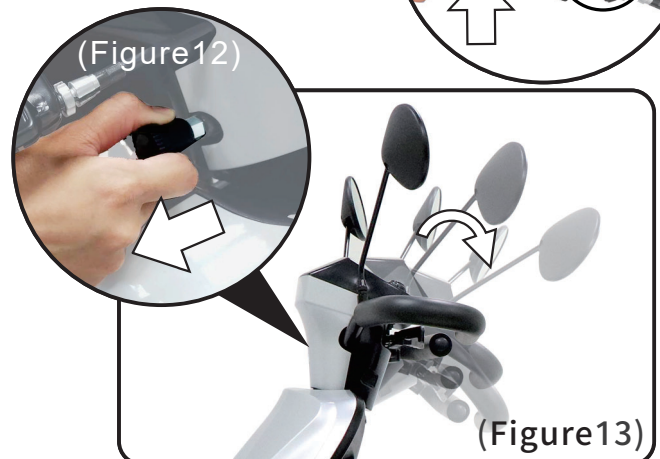
● Emergency Hand Brake

- When the throttle is released, the scooter slows down. You can use the hand brake **C** as needed to further reduce speed and bring the scooter to a stop, preventing potential hazards. (Fig 11)
- Pull the hand brake lever and press the spring button **D** to lock it, (Fig 11-1) so the scooter can't move. Pull the brake lever again to release the brake.



● Tiller Angle Adjustment :

Pull up the tiller adjustment lever (Fig 12) to adjust for 3 different angles and release to lock at a desired comfortable position. (Fig 13)

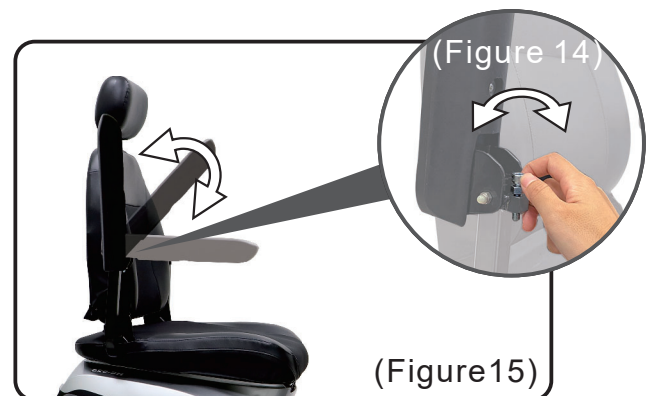


- Don't pull the start levers with both hands at the same time; it will make you lose control of the scooter.
- When reversing, watch your surroundings to avoid accidents.
- Don't adjust the handlebars while driving to prevent accidents.
- While the scooter is moving, sit securely on the seat and don't stand on the footboard.

5. OPERATION OF SCOOTER

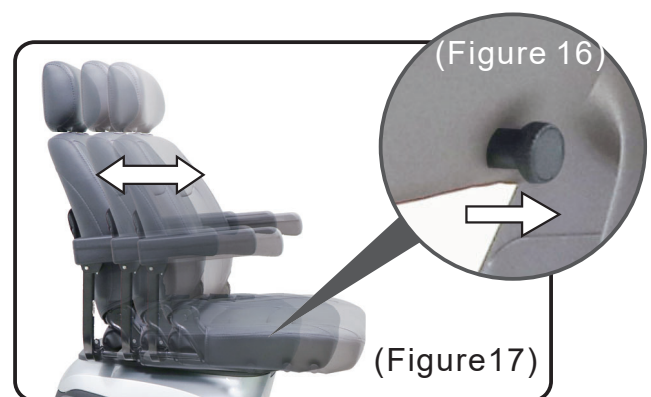
● Armrest angle Adjustment :

- Adjust the screw below the armrest to change its tilt angle.(Fig 14) Pull the armrest directly upward to position it vertically.(Fig 15)
- The armrest can be positioned vertically when getting on or off the scooter, making more easier to board or exit .



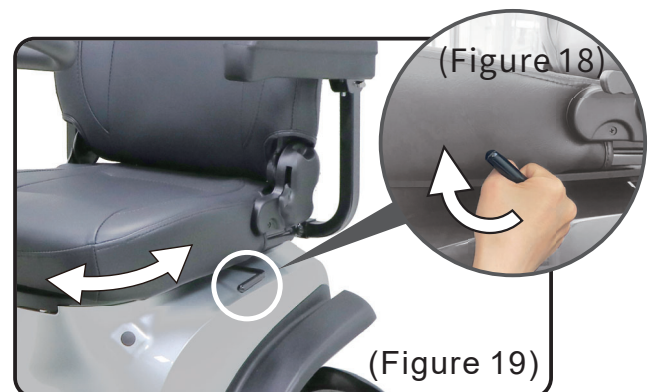
● Seat Fore-aft Adjustment :

- Pull the adjustment knob located below the right side of the seat outward (Fig 16) to adjust the seat forward or backward. (Fig 17)



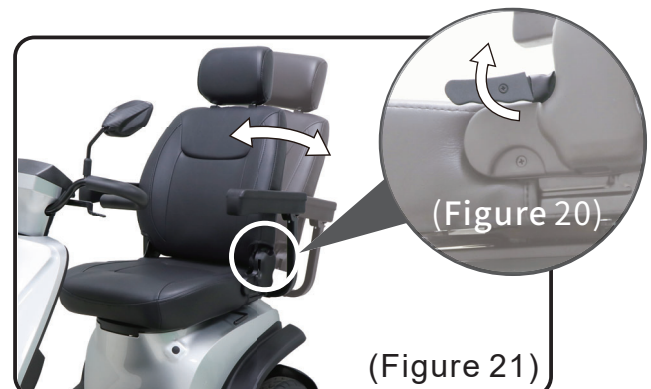
● Seat Rotation Adjustment

- Pull up the adjustment lever located below the left side of the seat (Fig 18), rotate the seat left or right to the desired angle, ensure the rails are securely locked, then push the rotation adjustment lever back to the horizontal position (Fig 19).



● Seatback Adjustment Handle

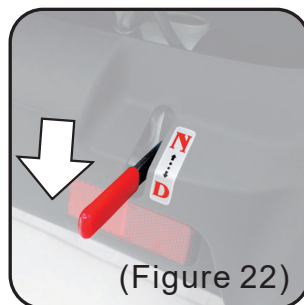
- Pull up the adjustment lever under the left side of the seat (Fig 20) to adjust the seat back tilt angle. Adjust to the desired angle and release the lever (Fig 21).
- When riding, adjust to a vertical, non-tilted position for safety.



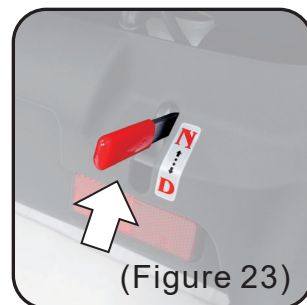
5. OPERATION OF SCOOTER

5-2 FREE-WHEELING (N-D LEVER)

- When lever is in Drive (D) position, scooter can be driven. (Fig 22)
- Normal position is D. (Please make sure the lever is in Drive (D) position when power on or parking.)
- When lever is in Neutral (N) position, scooter can be moved manually without power. (Fig 23) (Please make sure the lever is in Neutral (N) position when you need to push the scooter.)



(Figure 22)



(Figure 23)



- Do not adjust your seat while driving. Adjust your posture to a comfortable position before driving.
- Freewheel operation is only recommended on flat surfaces. Never leave your scooter on gradient with its motors disengaged.
- When adjusting N-D lever, do not sit on the scooter.
- It's not able to drive the scooter when the lever is in Neutral.
- Turn off the scooter and switch to D position, then turn on and drive scooter.
- N mode should only be used on flat surfaces and in emergencies. It is strictly prohibited to use N mode on uphill or downhill roads to prevent scooter from sliding and causing accidents and dangers.

5-3 SAFETY SPEED CONTROL SYSTEM

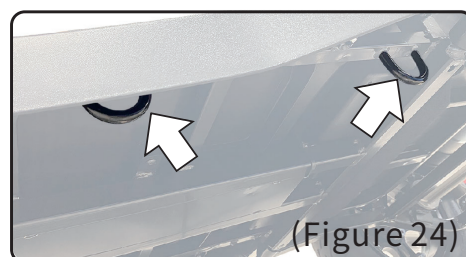
- When pushing the scooter (in N position), the safety speed control system will be activated and the scooter will automatically slow down if the speed is too fast.
- Please slow down and reserve a bigger space for turning. Do not make a rush turn in high speed to avoid the possibility of a tip or fall.

5-4 FIXED HOOKS

- To ensure safety during the transportation, there are four fixed hooks for fixing scooter on other vehicles. (Fig 24)
- Make sure the scooter is in D position when transporting.
- Do not sit on the scooter during transportation.



Do not tow the scooter by any vehicle. It may cause serious damage to the scooter.




(Figure 24)

6.CHARGING THE BATTERIES

6-1 CHARGING OPERATION

Batteries must be charged before using the scooter for the first time and should be recharged after each day use.

 Each country has their own AC power cord. The charging procedure may be different from below. If you require more details, please contact your authorized dealer. Make sure power switch is in OFF position and free-wheeling lever is in "D" position. Do not use extension cord to connect the charger. Do not use other brand charger to charge the scooter.

● Step Charging

1. Open the charging socket cover (A) and insert the output connector (C) of the charger (D) into the socket (B), then plug the AC end of the cable into a 100~240V electrical outlet.

2. Please check if the Power Light (E) turns Yellow along with the status of the Indicator (F).

3. Charger Indicator status (F)
 Rapidly Blinks Red = Error
 Flashes Red = Standby
 Steady Red = Charging
 Steady Green = Fully Charged

4. Please follow the instructions closely for your own safety. When fully charged, please unplug the charger in reverse order of Step 1.

5. Troubleshooting the charger

- If the Power Light (E) is off, please check if the connection is secure.
- If the Indicator (F) is off, check if the connection is secure, otherwise the battery may be defective.
- If the Steady Red light doesn't turn Green, please remove the defective battery as it can't be charged.
- If the Steady Red light turns Green immediately, the battery may be fully charged, otherwise please remove defective battery.(C)

100~240V
electrical outlet.

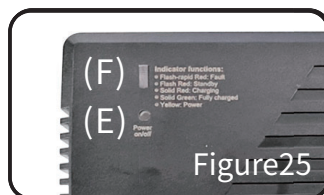
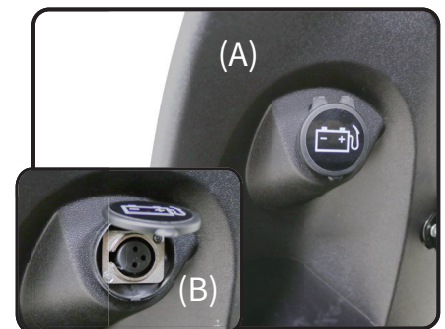


Figure 25



- The battery's high performance and long life depend on proper charging. Incorrect charging methods or inadequate charging equipment can shorten the battery's lifespan or reduce its performance.
- Both ends of the charger must remain clean and dry. Do not connect to extension cords.
- Please avoid touching the charger as it heats up when charging to prevent burns.
- Use the Indicator (F) as the main point of reference, with the Power light (E) as secondary, to check if the battery is fully charged.

6.CHARGING THE BATTERIES

6-2 INFORMATION FOR BATTERY & CHARGER

● Charger :

- Inspect the battery charger before each use, make sure connectors are dry and clean.
- Do not attempt to use an extension cord to plug in your battery charger.
- Be aware that the battery charger case may become hot during charging. Please avoid skin contact.

● Battery :

- Do not turn the key on while scooter is in charging.
- The scooter is using lead-acid battery. Do not add any electrolyte.
- Charge the batteries after each trip. Only use the battery charger supplied with your scooter.
- If the scooter is not used for some time batteries must be recharged once every three months at least. Make sure that batteries are fully charged, and on returning, charge them again before using scooter.
- Charging time is around 8 hours (depending on the battery's discharge level), and each charge must be fully completed (until the charging indicator turns green) to ensure the battery works properly. Do not stop charging before it's fully charged, as this may damage the battery.
- Do not switch off, unplug or interrupt the recharge cycle until the charging cycle has completed. (charger indicator turns green)
- Please charge the scooter in 0°C ~ 40°C, out of this range might affect the performance of the charger and battery.
- For longest life, your batteries should be recharged regularly. Please recharge the batteries before they run down to 20%.
- Check your batteries every 6 months by authorized dealer no matter how often the batteries are used.
- Follow local laws for the disposal of old batteries and do not throw them away casually.



- The battery charger is equipped with cooling fan. If the fan does not appear to be working correctly, please turn off the charger immediately as it may be overheated. Please contact your authorized scooter dealer.
- Do not cover charger by any objects during charging. Keep surroundings clean and well-ventilated.
- Use the battery charger in a well-ventilated area. Do not smoke as explosive gases may be generated while charging the batteries.
- Any battery faults due to unauthorized maintenance, dismantle, misuse or accidental damage is not covered by the manufacturer's warranty.

7.DISASSEMBLY INSTRUCTIONS

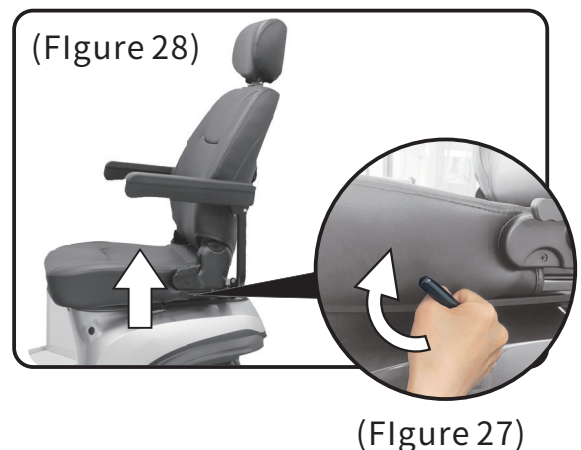
● Disassembling Armrests

Turn and remove the triangular screws fixing the armrest to the back of the chair (Fig 26 ①, then the armrest can be removed (②).



● Disassembling Seat

- **Removing the Seat:** Pull the seat rotating lever upward (Fig 27), and ask others to help lift the seat up (Fig 28) to disassemble the seat.
- **Installing the Seat :** Lift the seat rotation lever upwards, and then assemble the seat in reverse order.
- Please make sure to fasten the seat latch before riding to avoid danger.



- The seat is heavy. Disassemble the seat by two persons to avoid danger during operation.
- Do not sit on the scooter when disassemble/assemble the scooter and make sure the scooter is power off and in D position.
- Do not modify or change the scooter with non-authorized parts or accessories.

● Disassembling Battery

- Precautions for battery removal.



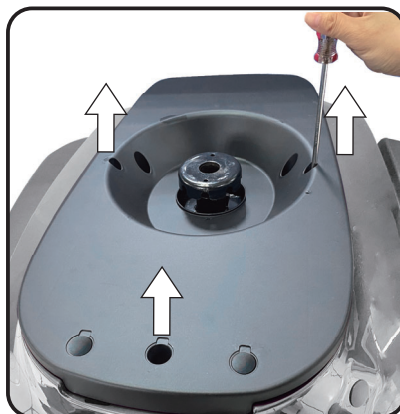
- Batteries are heavy, be careful when removing the batteries.
- Do not connect battery terminal [+] [-] with any metals to avoid danger.
- Connect the red terminal to red, black terminal to black.
- When replacing the batteries, remove the screws and connectors in sequence and tighten each component back.
- Maintenance & repair must only be carried out by a competent engineer or authorized dealer.

7.DISASSEMBLY INSTRUCTIONS

● Disassembling Battery



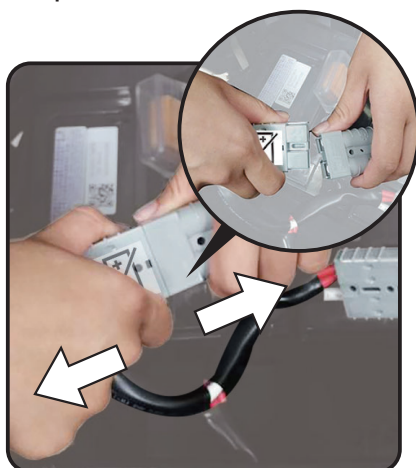
1. Remove the middle protective cover.



2. Use a Phillips screwdriver to unscrew the screws.



3. Remove the seat cover.



4. Follow the instructions on the "power off Indication label" (see 3-1), disconnect the connectors on both ends to disconnect the power.



5. Loosen the Velcro to release the fixation



6. Remove the battery and use Just use the handle to carry it and you're done.

▲ To install the battery, follow the steps above in reverse order.



- Batteries are heavy, be careful when removing the batteries.
- Do not connect battery terminal [+] [-] with any metals to avoid danger.
- Connect the red terminal to red, black terminal to black.
- When replacing the batteries, remove the screws and connectors in sequence and tighten each component back.(Otherwise, it could be dangerous.)
- Maintenance & repair must only be carried out by a competent engineer or authorized dealer.

8.MAINTENANCE AND TROUBLESHOOTING INSTRUCTIONS

8-1 BASIC MAINTENANCE

● CLEANING YOUR SCOOTER

- Do not use any abrasive or scouring liquids for cleaning. Only use a damp cloth and gentle detergent.
- Do not use hose pipe or splash water directly onto the scooter as this may cause damage to electronics.

● MAINTENANCE

- User should inspect the scooter regularly to keep scooter in good running order.
- Check if the electrical cable connectors are fully connected.
- All maintenance and repair of scooter should be done by an authorized dealer.

Seat Upholstery :

Only use damp cloth and a little soap to wipe the seat. Do not use abrasive cleaners as this will damage the seat.

Frame / Shroud :

- The frame and shroud of the scooter can be wiped with lightly damp cloth. Do not use abrasive cleaners as this will damage the coating.
- Car polish can be used to keep the paint and frame in pristine condition.

Storage :

- Please store the scooter in a dry location. If store the scooter in long time, please disconnect the battery terminals.
- Do not store your scooter where it will be exposed to source of direct heat, damp, oil, acid, alkaline, or where Ozone could be possibly generated. All of the above will minimize scooter / tire cycle and shorten its lifetime.

Tire :

User should inspect the tires frequently for damage, the presence of foreign bodies, unusual wear and sufficient tread depth. If replacement tires are needed, please contact the nearest dealer.

Front and rear wheel : Ø 370 x 90 mm (15") air tire.

The following areas require periodic inspection :

- Tire pressure between 30~36 psi
- Tread depth drops below 0.5 mm

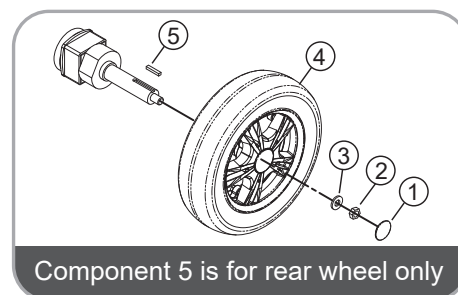
Recommended range of storage,

Temperature : -30°C ~ +50°C, Humidity : 25% ~ 85%

Follow these easy steps to replace the tire :

1. Turn off the scooter and remove the key. Make sure the lever is in D position before you lift the scooter.
2. Use an ratchet and socket to remove the drive wheel screw from the centre hub of the wheel. Pull the wheel off of the axle.
3. Separate the tire from the rim.
4. Remove the old tire and replace it with a new tire.
5. Slide the wheel back onto the shaft.
6. Install the drive wheel nut into the centre hub and verify the key is lined up with axle and wheel, then tighten to secure it in place. (Torque 300 ± 30kgf - cm)

All maintenance and repair of scooter should be done by an authorized dealer.



8.MAINTENANCE AND TROUBLESHOOTING INSTRUCTIONS

8-2 INSPECTION PLAN

● DAILY CHECK

Please always check your scooter before you start your every journey.

Check point	Inspection	What to do if the inspection is failed
N-D lever	Check for correct function	Contact your dealer.
Horn	Check for correct function	Contact your dealer.
Throttles	Pull the wigwag to test the scooter movement	Contact your dealer.
Electro-mechanical brake and Emergency hand brake	Pull the wigwag a little bit and release it to test if brake works. If your scooter comes with emergency handbrake, please check it as well.	Contact your dealer.
Battery Gauge	Check if the battery gauge is displayed and whether it is at low power.	<ul style="list-style-type: none"> • Contact your dealer if battery gauge is not working. • Recharge the battery immediately if low
Rear mirror (s)	Check if the parts are clean and firmly tighten to the scooter and do not wobble.	<ul style="list-style-type: none"> • Clean up the dirt by damp cloth. • Tighten the screw or clamping stem that holds the mirror(s)
Lighting	Check if all lights, such as head lights, rear lights, and turn signal are functioning correctly.	Contact your dealer.

● WEEKLY CHECK

Check point	Inspection	What to do if the inspection is failed
Speed Dial Knob	Check for correct function	Contact your dealer.
Armrests	Check if the parts are clean and firmly tighten to the scooter and do not wobble. Tighten the screw knob that holds the armrest.	Contact your dealer.
Wheels/Tires	Inflate the tire to the correct pressure and check that 1. Drive wheels rotate without wobbling. 2. Tire tread depth is not less than 0.5mm. 3. No foreign objects in tires.	Contact your dealer.
Motor	Check for correct function	Observe while driving Contact your dealer.
Battery Charger	Check if the charger is functioning correctly and the batteries are charged.	Contact your dealer.

● MONTHLY CHECK

Check point	Inspection	What to do if the inspection is failed
Seat / Upholstery	Check for movement and if it's worn	Contact your dealer.
Electronics	Check if all the battery cables and connectors are firmly tighten to the scooter	Contact your dealer.

8.MAINTENANCE AND TROUBLESHOOTING INSTRUCTIONS

● RECYCLING & DISPOSAL

- The equipment wrapping is potentially recyclable.
- The metal parts are used for scrap metal recycling. The plastic parts are used for plastic recycling.
- Electric components and printed circuit boards are disposed of as electronic scrap.
- Exhausted or damaged batteries can be returned to your medical equipment supplier.
- Disposal must be carried out in accordance with the respective national legal provisions.
- Ask your city or district council for details of the local waste management companies.

● SERVICE LIFE

We estimate a service life of five years for this product, provided it is used in strict accordance with the intended use as set out in this document and all maintenance and service requirements are met. The estimated service can be exceeded if the product is carefully used and properly maintained, and provided technical and scientific advances do not result in technical limitations. The service life can also be considerably reduced by extreme or incorrect usage. The fact that we estimate a service life for this product does not constitute an additional warranty.

8-3 FAULT DIAGNOSIS

Here are some suggestions about solving problems you may have with your scooter. There is a self-diagnostic warning light on the control panel. To check the self-diagnostic warning light, turn on the key and count the number of blinks on the warning light.

Check point	Solution
Check if the power is off	Turn the power on.
Check if the N-D lever is in Neutral position	Switch to D (drive) position. Turn off the power and turn on again.
Check if the battery power is enough. (Battery gauge is under 25%)	Recharge the battery and then retest.
Check if the charger power cord is still plugged in scooter	Unplug the charger power cord.

If you still cannot drive after checking the above conditions and troubleshooting the problem, please contact the dealer where you purchased it.

● OTHER PROBLEMS

- TIRE : Low tire pressure: pump up tires to 30~36 psi
- Charger: During charging, light on charger doesn't change to green. Please refer to section 6-1.

8.MAINTENANCE AND TROUBLESHOOTING INSTRUCTIONS

● Fault Diagnosis Table

- After power on, there's a fault condition with the vehicle status indicator (Fig 28) flashing. Refer to the table for the number of flashes corresponding to the fault condition.



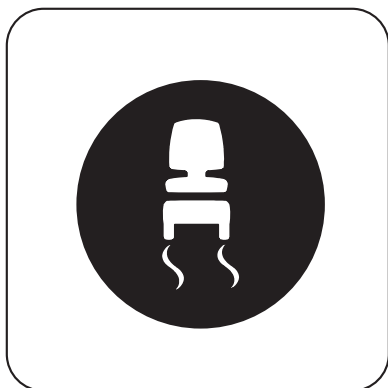
Figure 28
vehicle status indicator

Flash	Description	Initial check points
1	Battery Low	The batteries are running low. • Recharge the batteries.
2	Low Battery Fault	The batteries have run out of charge. • Recharge the batteries. • Check the battery and associated connections and wiring.
3	High Battery Fault	Battery voltage is too high. This may occur if overcharged and/or traveling down a long slope. • If traveling down a slope, reduce your speed to minimize the amount of regenerative charging.
4	Current limit time-out or controller overheat	The motor has been exceeding its maximum current rating for too long. • The scooter may have stalled. Turn the controller off, leave for a few minutes and turn back on again. • The motor may be faulty. Check the motor and associated connections and wiring.
5	Park Brake	Either a park brake release switch is active or the park brake is faulty. • Check the park brake and associated connections and wiring. • Ensure any associated switches are in their correct positions. If the operation is ineffective, please change the electromagnetic brake.
6	Drive Inhibit	Either a stop function is active or charger inhibits or OONAPU condition has occurred. • Release the stop condition (seat raised etc.) • Disconnect the battery charger. • Ensure the throttle is in Neutral when turning the controller on. • The throttle may require re-calibration.
7	Speed Pot	The throttle, speed limit pot. SRW or their associated wiring may be faulty. • Check the throttle and speed pot and associated connections and wiring.
8	Motor Voltage	The motor or its associated wiring is faulty. • Check the motor and associated connections and wiring.
9	Other Error	The controller may have an internal fault. • Check all connections and wiring.

- If self-diagnostic warning light flashes 1 / 2 / 4 / 5 times, please refer to above for solutions (turn off and restart again or charge the battery). If none of above correct problem, contact your authorized dealer.
- If self-diagnostic warning light flashes 3 / 6 / 7 / 8 / 9 times, please contact your authorized dealer directly.

9.OPTIONS

We offer below options to add functionality for your scooter, please contact the authorized dealer for more information.



Turning Speed Reduction

When turning left and right, scooter will reduce the speed itself according to turning space to ensure safety. (Gyro Meter)



Daytime Running Light

Enhance daytime visibility.



USB Charger

Convenient to use.



Canopy

A detachable canopy provides users with excellent comfort.



Rear Box

Large-capacity storage.

10. TECHNICAL SPECIFICATIONS

Overall Length	1580 mm / 62.2"
Overall Width	695 mm / 27.4"
Overall Height	1380 mm / 54.3"
Front Wheels	370 mm / 15"
Rear Wheels	370 mm / 15"
Weight W/ Batteries	120 kg / 264.6 lbs
Max. Speed	15 km / 9.3 mph
Weight Capacity	136 kg / 299.8 lbs
Ground Clearance	80 mm / 3.2"
Grade Climbable	10 degree
Curb Climbable	100 mm / 3.9"
Turning Radius	2200 mm / 86.6"
Suspension	Front & Rear
Brake	Hand Brake & Electro-Mechanical
Seat Type	Scooter Seat with Angle Adjustable Armrests
Seat Width	525mm / 20.7"
Motor Size	DC24V / 700W / 4300 r.p.m
Battery Size	(2) 12V. 50Ah
Weight of Battery	30.5 kg / 67.3 lbs
Travel Range	35 km / 21.7 Miles
Battery Charger	5A Off Board
Electronics	On / Off Key Switch, Battery Level Indicator, Speed Control Button

*Subject to change without notice. (Rev. 1, 2024/08/07)

